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## ERRATUM

MPC Line  
89089 8

For on how to make to submit read on how to submit

## NEW OBSERVATORY CODES

The following listing is a continuation to that on MPC 89089. The longitudes  $\lambda$  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.	$\lambda$	$\rho \cos \phi'$	$\rho \sin \phi'$	
K39	8.95556	0.714080	+0.697844	Serra Observatory
K40	9.0135	0.66228	+0.74685	Altdorf
K94	20.81097	0.845561	-0.532606	Sutherland
L16	26.04561	0.705820	+0.706098	Stardreams Observatory, Vălenii de Munte
L33	29.9546	0.67379	+0.73646	Ananjev
U79	242.79187	0.838837	+0.542598	Cosmos Research Center, Encinitas
W99	291.82022	0.921638	-0.387716	SON San Pedro de Atacama Station
Z39	346.4989	0.87535	+0.48189	Observatorio Costa Tegui

## CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Reference	N	Obs.
2002 RZ <sub>250</sub>	2006 09 19.270448	23 54 38.834	-01 36 25.01	MPS 430045		645	
2002 TE <sub>343</sub>	2002 11 08.258732	01 06 55.283	+00 32 33.44	MPS 155827		645	
2003 SC <sub>327</sub>	2003 09 26.292302	00 12 46.616	-00 06 16.88	MPS 182620		645	
2003 SU <sub>338</sub>	2003 09 28.337452	01 04 23.225	+00 35 12.11	MPS 212266		645	
2004 RV <sub>133</sub>	2000 10 02.379362	00 33 34.938	-00 41 04.77	MPS 287966		645	
2006 JN <sub>6</sub>	2006 07 15.90336	16 46 42.57	+30 47 39.0	MPS 174858		941	
2007 CT <sub>60</sub>	2003 04 27.134792	12 36 58.273	+11 01 29.77	MPS 206244		645	
2007 CL <sub>64</sub>	2003 01 25.205932	08 15 29.247	+25 33 07.40	MPS 367083		645	
2007 DR <sub>40</sub>	2003 04 29.293292	17 14 48.781	+21 17 51.51	MPS 367085		645	
2007 VD <sub>231</sub>	2014 07 29.13894	23 12 36.72	+01 40 09.9	MPS 527074		J43	
2008 ER <sub>136</sub>	2001 10 14.349742	00 42 18.042	+01 09 33.47	MPS 428357		645	
2008 XM <sub>39</sub>	2003 09 26.338432	01 19 24.735	-00 09 08.87	MPS 312648		645	
2008 YN <sub>4</sub>	2009 01 30.96360	05 18 01.86	+29 40 13.8	MPS 272796		J47	
2012 BN <sub>75</sub>	2003 04 01.315042	13 29 32.904	+08 08 10.97	MPS 468690		645	
2012 CC <sub>12</sub>	2005 03 14.21317	08 38 45.00	+21 07 50.1	MPS 417333		G96	

2012 TQ <sub>228</sub>	2000 03 04.353662	10 52 09.311	-01 41 27.71	MPS 439783	645
2012 VK <sub>91</sub>	2003 11 28.208352	01 47 20.471	+00 53 24.84	MPS 447880	645
2013 AO <sub>123</sub>	2003 10 24.101242	21 21 06.117	+00 15 36.67	MPS 469949	645
2013 JO <sub>62</sub>	2000 03 05.31721	10 52 15.69	-04 44 13.3	MPS 468768	807
2013 UL <sub>11</sub>	2003 01 28.431102	10 42 02.248	+14 44 37.14	MPS 488560	645
2013 YF <sub>78</sub>	2003 02 01.182362	07 53 33.884	+21 35 33.56	MPS 498861	645
2P	2013 09 02.93046	04 08 41.63	+34 03 12.5	MPC 85063	K60
189P	2012 08 21.99846	19 47 39.72	+37 48 26.7	MPC 80433	585
(3862)	2005 09 13.386599	02 25 45.491	-00 07 42.53	MPS 389270	645
(6655)	2005 09 13.386589	02 25 44.619	+01 07 04.13	MPS 389286	645
(9465)	2007 02 07.175158	06 30 28.417	+09 06 36.44	MPS 389305	645
(9934)	2004 05 14.145262	09 35 21.710	+24 30 48.70	MPS 136093	645
(11108)	2005 08 16.07832	23 35 45.25	+12 06 21.8	MPS 139777	951
(11666)	2005 10 22.231479	23 50 26.743	-01 01 25.13	MPS 389318	645
(12261)	2006 11 01.460738	04 55 34.880	+13 38 36.82	MPS 389322	645
(15312)	2004 09 21.414099	02 23 06.936	+20 56 47.59	MPS 389337	645
(15982)	2005 09 13.387189	02 26 36.979	-00 56 15.98	MPS 389342	645
(16021)	2006 01 31.359528	09 22 34.559	+12 03 42.99	MPS 389342	645
(17193)	2005 09 10.315669	00 23 23.978	+00 17 19.25	MPS 389350	645
(18710)	2004 10 16.347309	01 08 04.690	-00 00 14.36	MPS 389362	645
(18751)	2007 10 12.44803	08 18 51.83	+23 50 14.3	MPS 288229	704
(19434)	2006 05 24.153808	10 45 02.393	+08 14 21.95	MPS 389367	645
(19844)	2004 04 16.48415	06 18 23.98	-15 04 52.5	MPS 104593	E17
(19865)	2005 09 27.277539	00 00 19.403	+00 35 16.23	MPS 389370	645
(20487)	2006 01 31.313078	08 16 38.939	+07 49 57.95	MPS 389373	645
(20707)	2004 10 10.368849	02 48 03.136	+00 13 39.82	MPS 389374	645
(22504)	2004 10 10.325599	01 45 35.643	-00 50 19.09	MPS 389382	645
(22696)	2006 11 21.496488	07 10 24.368	+30 11 08.65	MPS 389382	645
(23851)	2004 02 17.280382	08 02 40.068	+20 17 16.07	MPS 136173	645
(24802)	2006 11 20.414148	05 33 10.800	+20 04 48.55	MPS 389391	645
(25136)	2003 12 21.269442	07 47 31.499	+17 00 51.39	MPS 136183	645
(25928)	2004 12 11.440099	08 57 29.296	+22 08 29.19	MPS 389396	645
(25996)	2004 04 15.165712	08 15 02.311	+18 36 49.01	MPS 136190	645
(26291)	2005 09 27.267469	23 45 46.065	-00 15 31.66	MPS 389398	645
(26611)	2005 09 28.381369	01 33 23.853	-00 09 20.64	MPS 389400	645
(26949)	2005 09 10.315749	00 23 31.189	+00 41 04.76	MPS 389401	645
(26954)	2005 10 20.325959	01 35 03.969	-00 54 14.50	MPS 389401	645
(28309)	2001 10 28.27632	02 24 16.58	+12 04 37.4	MPS 39977	739
(28636)	2002 11 15.45264	08 12 29.00	+19 28 48.6	MPS 67209	699
(30213)	2002 01 13.095612	01 55 14.755	+00 23 26.24	MPS 80944	645



(30422)	2005 12 01.140589 22 14 45.252-00 23 21.29 <i>MPS</i> 389426	645	(81256)	2006 11 21.440768 05 48 25.838+21 55 15.82 <i>MPS</i> 389689	645
(30493)	2006 09 17.280368 00 02 02.831-04 30 16.16 <i>MPS</i> 389426	645	(81754)	2005 09 23.123969 20 18 18.530-01 02 49.93 <i>MPS</i> 389692	645
(31004)	2003 03 31.268012 13 11 12.681+13 24 40.46 <i>MPS</i> 136220	645	(84255)	2000 03 06.36339 14 01 04.38 -10 29 24.1 <i>MPS</i> 69936	807
(31503)	2005 09 10.245839 22 42 33.338+00 23 30.28 <i>MPS</i> 389435	645	(84411)	2004 02 25.92484 10 33 20.55 +07 24 02.9 <i>MPS</i> 110069	097
(31777)	2006 11 20.424088 05 49 57.240+20 31 56.65 <i>MPS</i> 389437	645	(84411)	2004 02 25.94274 10 33 19.50 +07 24 07.8 <i>MPS</i> 110069	097
(32174)	2007 02 21.294528 07 28 54.757+14 59 55.70 <i>MPS</i> 389440	645	(85280)	2005 09 27.267649 23 46 02.536-01 09 15.81 <i>MPS</i> 389710	645
(34560)	2006 11 21.447288 05 58 59.515+22 24 21.32 <i>MPS</i> 389459	645	(85739)	2004 02 25.99451 12 17 27.04 +03 55 44.6 <i>MPS</i> 109793	097
(38129)	2005 05 10.145239 09 16 13.154+13 38 11.67 <i>MPS</i> 389481	645	(86777)	2002 12 31.280132 07 58 34.259+23 27 06.87 <i>MPS</i> 275092	645
(38724)	2004 10 20.341189 01 03 54.360-00 26 20.29 <i>MPS</i> 389484	645	(88567)	2005 09 27.265589 23 43 03.484+00 27 31.40 <i>MPS</i> 389729	645
(39648)	2004 12 11.416849 08 23 42.427+19 11 10.54 <i>MPS</i> 389490	645	(89722)	2005 11 26.130869 21 41 27.563-00 50 07.49 <i>MPS</i> 389736	645
(40983)	2003 10 23.097872 21 03 34.875-00 13 16.70 <i>MPS</i> 136241	645	(90515)	2005 10 20.278469 00 26 28.845+01 14 34.27 <i>MPS</i> 389741	645
(41688)	2007 02 21.259178 07 53 43.785+33 31 25.77 <i>MPS</i> 389500	645	(92793)	2006 01 31.393798 10 12 43.260+14 06 06.95 <i>MPS</i> 389753	645
(42635)	2003 10 22.219482 00 05 58.129+00 17 30.63 <i>MPS</i> 136244	645	(93014)	2004 10 10.143239 21 22 13.865-00 34 11.70 <i>MPS</i> 389755	645
(42914)	2006 11 01.499758 05 47 06.463+20 34 32.03 <i>MPS</i> 389505	645	(93649)	2005 12 06.407869 08 16 16.204+09 14 42.65 <i>MPS</i> 389758	645
(43067)	2005 01 19.432099 09 19 14.276+18 03 01.37 <i>MPS</i> 389506	645	(94142)	2004 10 16.291089 23 46 53.187-00 59 12.08 <i>MPS</i> 389760	645
(43598)	2005 11 06.123659 21 30 32.119+01 09 49.65 <i>MPS</i> 389508	645	(94170)	2003 07 07.30845 19 29 29.00 -32 24 03.2 <i>MPS</i> 82275	644
(43650)	2003 10 24.240452 00 42 07.549+01 03 21.64 <i>MPS</i> 136249	645	(94170)	2003 07 07.32543 19 29 28.07 -32 24 07.5 <i>MPS</i> 82275	644
(45185)	2006 11 20.417518 05 42 20.154+18 54 40.54 <i>MPS</i> 389514	645	(94170)	2003 07 07.34419 19 29 26.98 -32 24 11.5 <i>MPS</i> 82275	644
(45355)	2005 06 05.358759 17 23 16.456-13 52 45.62 <i>MPS</i> 389514	645	(94616)	2004 09 21.242369 01 02 23.970+25 34 22.25 <i>MPS</i> 389762	645
(46044)	2005 02 04.219229 09 06 58.053+16 29 16.93 <i>MPS</i> 389517	645	(95375)	2004 12 13.162619 01 09 57.301+00 50 42.08 <i>MPS</i> 389768	645
(46072)	2006 01 31.325948 08 33 57.799+09 49 59.15 <i>MPS</i> 389517	645	(96372)	2006 05 27.262198 14 26 52.595-20 05 19.57 <i>MPS</i> 389773	645
(47795)	2005 03 12.192509 09 13 12.485+14 45 13.98 <i>MPS</i> 389523	645	(98911)	2007 12 04.06408 23 02 14.43 -09 45 14.3 <i>MPS</i> 288893	704
(48149)	2004 03 17.241712 07 46 45.850+16 04 30.31 <i>MPS</i> 136281	645	(99170)	2005 03 12.191409 09 11 12.755+14 59 31.52 <i>MPS</i> 389787	645
(48780)	2000 03 09.34223 13 57 25.64 -10 31 23.9 <i>MPS</i> 37592	807	(99809)	2005 01 17.419089 09 20 58.385+20 40 47.78 <i>MPS</i> 389789	645
(49043)	2005 09 22.233859 22 54 55.244-00 34 43.79 <i>MPS</i> 389528	645	(100455)	2004 10 05.24661 22 24 04.77 -11 56 32.7 <i>MPS</i> 115531	G92
(51238)	2004 01 31.87341 09 24 09.82 +02 03 36.1 <i>MPS</i> 103656	097	(100716)	2005 09 27.245089 23 13 27.789-01 06 59.84 <i>MPS</i> 389794	645
(52889)	2002 12 08.30981 03 49 15.01 +20 44 34.1 <i>MPS</i> 67457	699	(101747)	2006 09 19.302038 23 50 10.616+01 57 28.55 <i>MPS</i> 389800	645
(55139)	2006 11 21.444738 05 53 22.116+22 48 10.44 <i>MPS</i> 389559	645	(103997)	2005 10 27.269989 00 22 15.491-00 56 38.46 <i>MPS</i> 389809	645
(55493)	2006 11 21.472108 06 32 38.781+27 07 57.51 <i>MPS</i> 389561	645	(104523)	2000 03 08.34834 14 00 13.01 -10 19 02.6 <i>MPS</i> 33252	807
(55844)	2002 12 07.466192 09 31 25.199+08 33 55.19 <i>MPS</i> 274523	645	(104547)	2000 03 09.34223 13 57 45.01 -10 29 50.9 <i>MPS</i> 77888	807
(56949)	2005 11 30.116299 21 41 14.756+01 12 26.94 <i>MPS</i> 389572	645	(105133)	1999 03 21.317582 12 25 03.463+00 53 56.60 <i>MPS</i> 83257	645
(57078)	2004 04 13.26968 14 40 46.11 -06 41 59.6 <i>MPS</i> 104780	644	(105170)	2005 12 01.158149 22 40 06.997-00 49 08.00 <i>MPS</i> 389815	645
(57101)	2003 03 23.149032 10 52 28.639+10 28 55.44 <i>MPS</i> 136330	645	(106073)	2005 10 11.345579 01 06 57.027+00 41 21.79 <i>MPS</i> 389825	645
(57355)	2005 09 10.195709 21 30 09.136+01 05 09.06 <i>MPS</i> 389575	645	(106178)	2003 10 24.170092 23 00 31.346+00 41 15.39 <i>MPS</i> 136872	645
(58622)	2005 10 26.149889 21 58 58.948+00 05 49.89 <i>MPS</i> 389583	645	(107283)	2004 02 21.71380 02 14 38.99 -03 50 02.3 <i>MPS</i> 109562	097
(59817)	2005 10 26.482559 03 29 44.251+00 12 49.54 <i>MPS</i> 389591	645	(108405)	2006 11 20.419338 05 41 44.475+20 23 56.26 <i>MPS</i> 389835	645
(60051)	2005 11 04.363429 02 04 23.752+12 26 13.77 <i>MPS</i> 389592	645	(108854)	2005 12 01.229109 00 22 36.670-00 44 28.93 <i>MPS</i> 389837	645
(60372)	2005 09 24.192939 22 05 35.169+00 14 06.29 <i>MPS</i> 389594	645	(109908)	2006 11 20.477268 07 06 21.813+28 50 02.75 <i>MPS</i> 389845	645
(61167)	2005 10 22.304049 01 35 14.826+01 11 30.03 <i>MPS</i> 389598	645	(110509)	2006 11 21.475698 06 39 31.298+26 57 10.28 <i>MPS</i> 389849	645
(61214)	2006 01 05.37293 08 06 01.38 +18 48 19.7 <i>MPS</i> 293863	704	(110668)	2005 09 26.225589 00 20 04.950+06 27 36.31 <i>MPS</i> 389851	645
(63144)	2005 11 24.247509 00 30 25.481-00 34 58.42 <i>MPS</i> 389615	645	(111835)	2003 09 26.326612 01 02 20.366+00 13 02.19 <i>MPS</i> 136943	645
(64269)	2005 11 13.262829 02 08 51.385-01 12 39.38 <i>MPS</i> 389621	645	(112196)	2003 09 26.274362 23 46 52.148+01 13 53.94 <i>MPS</i> 136952	645
(64519)	2003 03 31.365102 15 32 59.241+08 44 23.99 <i>MPS</i> 136345	645	(112762)	2001 02 20.425832 11 15 19.052+04 12 22.62 <i>MPS</i> 138867	645
(67786)	2003 10 19.138962 21 58 32.236-00 24 59.31 <i>MPS</i> 136351	645	(112831)	2002 10 05.223422 21 50 40.233+00 25 56.63 <i>MPS</i> 142616	645
(68472)	2005 11 01.149169 22 18 30.396+00 47 48.20 <i>MPS</i> 389644	645	(113479)	2006 11 21.498938 07 13 55.537+30 40 13.51 <i>MPS</i> 389866	645
(68772)	2004 12 11.404709 08 08 13.777+16 46 13.48 <i>MPS</i> 389645	645	(114318)	2003 01 25.185802 07 47 05.367+21 59 49.56 <i>MPS</i> 137954	645
(69788)	2004 04 13.150592 07 45 16.142+14 28 48.21 <i>MPS</i> 136356	645	(114561)	2005 09 10.315439 00 23 03.876+01 12 19.80 <i>MPS</i> 389870	645
(70570)	2003 10 23.254502 00 49 46.150+00 25 38.71 <i>MPS</i> 136359	645	(114693)	2007 02 07.217908 08 30 54.759+35 54 22.98 <i>MPS</i> 389871	645
(71369)	2004 12 11.496149 09 35 11.715+24 53 11.83 <i>MPS</i> 389657	645	(114814)	2003 10 23.083752 20 43 11.706-00 40 40.59 <i>MPS</i> 137004	645
(72649)	2003 10 24.198572 23 41 39.416-00 51 56.63 <i>MPS</i> 136367	645	(116511)	2000 03 08.34834 14 00 05.99 -10 39 07.5 <i>MPS</i> 134863	807
(73774)	2004 04 16.157072 08 21 29.774+18 37 18.07 <i>MPS</i> 136371	645	(116673)	2004 04 15.206632 09 09 30.588+26 28 14.74 <i>MPS</i> 137050	645
(76520)	2003 10 21.47336 04 46 51.94 +22 49 33.9 <i>MPS</i> 87812	701	(116876)	2005 09 12.316339 23 55 22.397+08 00 24.24 <i>MPS</i> 389878	645
(77695)	2004 04 16.129332 07 44 58.449+13 45 33.44 <i>MPS</i> 136392	645	(117073)	2005 09 27.267539 23 45 52.508-01 03 07.59 <i>MPS</i> 389880	645



(117270)	2006 01 06.387558 08 42 27.885+10 37 11.51 <i>MPS</i> 389881	645	(160621)	2005 02 04.209349 08 52 14.293+15 48 28.45 <i>MPS</i> 390092	645
(117678)	2005 06 01.238029 12 21 06.666+18 21 43.85 <i>MPS</i> 389883	645	(161434)	2001 02 20.385302 10 16 30.526+04 40 35.85 <i>MPS</i> 173902	645
(117977)	2004 12 13.448369 10 21 04.780+27 10 29.88 <i>MPS</i> 389883	645	(162458)	2003 03 31.146992 10 12 59.790+09 44 51.27 <i>MPS</i> 136861	645
(118453)	2005 10 30.450719 08 49 05.463+17 06 02.63 <i>MPS</i> 389887	645	(162566)	2013 10 17.94668 01 37 49.36 +40 30 37.4 <i>MPS</i> 484734	238
(118754)	2005 11 04.412279 02 40 16.011+27 58 54.84 <i>MPS</i> 389890	645	(164112)	2004 01 29.80189 06 45 12.74 +29 48 36.6 <i>MPS</i> 103156	097
(119443)	2002 01 14.078232 01 30 58.674-00 45 29.02 <i>MPS</i> 79951	645	(167581)	2002 10 31.074852 20 52 06.366-01 02 43.51 <i>MPS</i> 214430	645
(120472)	2005 09 13.335949 01 12 36.566+00 21 17.63 <i>MPS</i> 389905	645	(167767)	2004 12 11.420279 08 30 47.325+18 38 02.81 <i>MPS</i> 390118	645
(121752)	2001 03 19.212662 10 06 22.050-00 57 04.93 <i>MPS</i> 157543	645	(168944)	2004 12 20.524399 10 22 38.889+24 35 13.79 <i>MPS</i> 390122	645
(123222)	2005 11 06.264749 00 54 17.859-00 31 02.63 <i>MPS</i> 389916	645	(169029)	2001 02 20.458582 12 02 44.798+04 21 45.66 <i>MPS</i> 276039	645
(124135)	2005 09 13.449219 03 56 12.530+00 43 58.21 <i>MPS</i> 389919	645	(170061)	2004 01 28.402262 12 21 05.023+15 48 46.82 <i>MPS</i> 136986	645
(124159)	2003 01 25.204002 08 12 40.008+25 14 17.53 <i>MPS</i> 155186	645	(170196)	2004 12 11.439069 08 56 56.167+21 32 04.09 <i>MPS</i> 390126	645
(125036)	1999 03 22.288882 11 47 29.999+01 13 01.32 <i>MPS</i> 141016	645	(170810)	2005 06 05.360509 17 24 30.619-14 35 05.76 <i>MPS</i> 390128	645
(125254)	2005 09 27.285789 00 12 13.579+00 37 58.99 <i>MPS</i> 389924	645	(170813)	2004 02 24.93994 11 23 39.60 +01 52 01.6 <i>MPS</i> 110322	097
(126407)	2004 10 10.238339 23 39 33.336-00 10 57.55 <i>MPS</i> 389931	645	(170813)	2004 02 27.01037 11 22 06.05 +01 56 07.9 <i>MPS</i> 109971	097
(127492)	2004 04 13.152922 07 50 58.402+13 51 57.07 <i>MPS</i> 136971	645	(173850)	2003 01 09.17241 07 07 40.04 +24 42 45.6 <i>MPS</i> 291378	704
(127899)	2005 10 27.339749 02 03 00.010+01 12 25.58 <i>MPS</i> 389937	645	(175849)	2006 09 29.204928 00 06 03.209-07 54 57.81 <i>MPS</i> 390140	645
(130080)	2005 03 10.328209 11 18 44.867+21 33 45.54 <i>MPS</i> 389949	645	(177113)	2005 09 26.360529 01 02 06.057+00 44 19.27 <i>MPS</i> 390144	645
(130917)	2004 12 13.30869 05 41 49.31 +16 31 24.0 <i>MPS</i> 294178	704	(180706)	2003 01 28.248232 09 04 27.881+09 23 58.26 <i>MPS</i> 239415	645
(133658)	2006 05 26.218128 14 01 08.600-08 54 45.97 <i>MPS</i> 389963	645	(182637)	2006 11 21.459458 06 15 29.209+24 38 59.91 <i>MPS</i> 390170	645
(134282)	2004 12 12.297169 03 48 01.921+47 49 32.71 <i>MPS</i> 389966	645	(182767)	2005 09 13.283479 23 56 49.841-00 31 03.49 <i>MPS</i> 390172	645
(135952)	2013 05 03.63852 12 48 37.21 +11 20 08.6 <i>MPS</i> 467269	D20	(182791)	2005 09 25.338949 00 37 04.153-01 09 03.30 <i>MPS</i> 390172	645
(136572)	2005 06 05.360429 17 26 15.062-13 51 50.00 <i>MPS</i> 389972	645	(182896)	2005 09 27.296409 00 27 34.036-01 04 21.84 <i>MPS</i> 390173	645
(137691)	2004 02 17.284532 08 09 39.976+20 33 47.32 <i>MPS</i> 136842	645	(183519)	2005 11 07.320899 01 12 20.472+01 00 41.87 <i>MPS</i> 390175	645
(138633)	2000 10 02.305272 22 46 34.569+00 24 30.35 <i>MPS</i> 175078	645	(183971)	2003 01 28.087342 02 53 08.852+45 49 15.89 <i>MPS</i> 198109	645
(138667)	2005 10 12.070849 19 42 01.448+00 35 44.41 <i>MPS</i> 389976	645	(184556)	2003 01 28.256872 09 17 11.067+09 31 56.31 <i>MPS</i> 141748	645
(140029)	2005 09 15.290669 00 29 03.933-00 09 38.26 <i>MPS</i> 389981	645	(184927)	2005 10 27.321059 01 36 00.005+00 39 29.88 <i>MPS</i> 390184	645
(140691)	2002 11 13.496442 09 18 58.937+06 10 35.30 <i>MPS</i> 133269	645	(185620)	2005 09 27.285369 00 11 37.827-00 42 36.21 <i>MPS</i> 390186	645
(141410)	2006 10 31.483488 05 27 01.464+19 23 18.28 <i>MPS</i> 389989	645	(186195)	2005 09 10.315849 00 23 39.774+01 05 07.58 <i>MPS</i> 390190	645
(141850)	2002 10 30.094572 21 14 52.901-00 22 31.95 <i>MPS</i> 178335	645	(187144)	2004 01 29.94256 09 59 35.54 +20 28 22.4 <i>MPS</i> 178532	097
(142713)	2004 02 24.91709 10 13 28.32 -02 49 25.9 <i>MPS</i> 109584	097	(187362)	2003 01 28.440192 10 56 26.336+12 47 35.51 <i>MPS</i> 197082	645
(142857)	2002 11 27.29614 03 36 36.75 +20 20 21.4 <i>MPS</i> 68199	699	(187415)	2004 04 23.42426 15 17 51.15 -18 35 25.7 <i>MPS</i> 156116	333
(145531)	2005 02 04.168849 07 55 08.449+11 08 36.89 <i>MPS</i> 389999	645	(188354)	2003 12 21.314812 08 45 57.011+26 13 18.40 <i>MPS</i> 137032	645
(146059)	2003 12 28.41529 10 31 13.64 +21 54 19.1 <i>MPS</i> 294242	704	(189792)	2006 01 31.309868 08 11 50.388+07 48 04.50 <i>MPS</i> 390212	645
(146202)	2006 11 21.443848 05 55 22.785+21 22 37.60 <i>MPS</i> 390002	645	(190140)	2005 10 21.286399 00 17 15.853-01 13 19.56 <i>MPS</i> 390213	645
(146503)	2001 12 10.205452 00 26 34.497-00 12 26.55 <i>MPS</i> 140993	645	(190574)	2004 09 24.347429 00 31 59.110-00 30 40.96 <i>MPS</i> 390214	645
(146970)	2006 11 01.499588 05 48 28.125+19 55 40.73 <i>MPS</i> 390007	645	(192512)	2000 12 23.491679 11 11 17.870+01 45 32.96 <i>MPS</i> 164905	645
(147152)	2006 11 21.451378 06 05 21.506+22 48 49.62 <i>MPS</i> 390007	645	(193561)	2004 09 21.359059 03 55 56.995+14 05 22.30 <i>MPS</i> 390222	645
(147950)	2005 09 10.315309 00 22 53.400-00 55 30.67 <i>MPS</i> 390013	645	(193761)	2000 03 04.340692 10 33 21.034-02 30 48.30 <i>MPS</i> 164972	645
(148135)	2004 03 19.30546 10 42 20.83 +10 33 28.1 <i>MPS</i> 294248	704	(195185)	2004 12 14.159809 01 40 26.933+07 11 54.00 <i>MPS</i> 390228	645
(149742)	2005 09 13.442139 03 45 58.996+00 17 12.64 <i>MPS</i> 390026	645	(197523)	2004 01 29.94802 10 34 41.80 +07 21 54.7 <i>MPS</i> 112903	097
(150539)	2007 02 11.36007 09 51 40.24 +10 29 11.4 <i>MPS</i> 199403	H07	(197523)	2004 01 29.95962 10 34 40.94 +07 21 49.2 <i>MPS</i> 112903	097
(150776)	2001 10 14.287782 23 39 47.560-00 56 50.78 <i>MPS</i> 139245	645	(198247)	2004 09 15.355689 01 11 46.735+14 21 23.16 <i>MPS</i> 390238	645
(150808)	2005 09 22.284119 00 07 30.561-00 31 21.85 <i>MPS</i> 390034	645	(198962)	1998 09 19.304273 00 04 17.419-00 03 01.79 <i>MPS</i> 190517	645
(151595)	2005 11 03.274379 00 48 57.208+00 22 06.52 <i>MPS</i> 390041	645	(199709)	2006 05 27.235668 14 03 07.478-12 10 50.23 <i>MPS</i> 390242	645
(152039)	2004 12 14.063239 22 48 44.179-17 32 14.78 <i>MPS</i> 390045	645	(199892)	2005 11 07.196089 22 12 05.098-01 12 08.20 <i>MPS</i> 390242	645
(152357)	2003 02 01.197862 08 16 33.957+23 51 55.00 <i>MPS</i> 175739	645	(202281)	2005 02 04.240349 09 36 10.373+19 52 27.14 <i>MPS</i> 390252	645
(153530)	2005 09 27.283339 00 08 41.821+00 52 54.42 <i>MPS</i> 390052	645	(202727)	1998 09 25.358623 01 46 21.859-00 38 02.58 <i>MPS</i> 210730	645
(156215)	2002 01 14.131892 02 48 28.057-00 12 56.81 <i>MPS</i> 141020	645	(202970)	2003 10 22.241792 00 38 10.769+00 24 57.66 <i>MPS</i> 136834	645
(156397)	2001 12 20.311812 08 38 46.658+37 22 42.56 <i>MPS</i> 138295	645	(203399)	2004 10 08.336399 01 01 14.155-00 31 30.86 <i>MPS</i> 390256	645
(157530)	2005 11 03.275739 00 50 55.032+00 14 53.29 <i>MPS</i> 390071	645	(207354)	2004 02 17.340272 09 24 52.926+31 37 38.31 <i>MPS</i> 178520	645
(158033)	2004 09 12.293779 21 56 12.088+06 05 15.22 <i>MPS</i> 390073	645	(207373)	2005 06 05.333129 16 50 45.510-09 08 41.63 <i>MPS</i> 390270	645
(160073)	2005 10 26.279419 01 06 02.042+00 58 02.38 <i>MPS</i> 390081	645	(209339)	2005 06 05.335609 16 52 58.867-09 56 14.12 <i>MPS</i> 390276	645
(160301)	2003 04 01.275562 12 31 54.188+06 45 09.99 <i>MPS</i> 137001	645	(209910)	2004 01 29.92530 10 00 40.63 +20 53 05.4 <i>MPS</i> 138024	097



(209910)	2004 01 29.94256 10 00 39.87 +20 53 15.7 MPS 138024	097	(271913)	2004 12 12.301519 03 53 43.851+49 04 38.68 MPS 390496	645
(211917)	2004 12 12.20318 02 47 23.23 +16 36 33.0 MPS 121759	701	(272214)	2005 09 27.245109 23 13 28.912-01 05 58.02 MPS 390497	645
(211970)	2004 12 20.454039 08 38 30.719+17 06 02.72 MPS 390284	645	(273718)	2005 09 14.435499 03 45 12.361+01 01 06.97 MPS 390505	645
(212281)	2005 05 11.263659 16 30 08.603+08 50 51.39 MPS 390285	645	(275636)	2000 03 06.32128 10 51 45.22 -04 54 17.2 MPS 26642	807
(214359)	2006 09 29.216268 00 21 04.345-10 40 06.32 MPS 390291	645	(276744)	*2004 03 28.35546 14 22 48.66 -02 13 39.5 MPS 103253	333
(214454)	2005 10 31.231179 00 19 08.515+00 05 51.50 MPS 390291	645	(277162)	2005 11 03.414159 02 25 05.353+69 14 13.02 MPS 476030	645
(215789)	2003 01 28.483772 12 00 49.831+15 27 05.53 MPS 213717	645	(277247)	2005 10 28.361589 01 02 17.883+01 00 39.79 MPS 390514	645
(216081)	2006 09 19.317888 00 02 06.206-02 57 42.06 MPS 390298	645	(277254)	2003 01 25.190262 07 52 53.275+22 54 33.65 MPS 309359	645
(217625)	2007 05 13.29896 15 11 55.00 -16 46 25.7 MPS 290329	704	(277721)	2004 10 16.376909 01 50 49.904-00 32 08.75 MPS 390517	645
(217898)	2005 09 27.285459 00 11 45.474+00 11 22.52 MPS 390304	645	(278157)	2005 09 28.363649 01 07 47.970+00 45 18.88 MPS 390518	645
(219386)	2007 02 07.200778 08 03 30.272+32 52 50.73 MPS 390309	645	(278207)	2005 11 06.284669 01 23 04.126+01 12 49.78 MPS 390518	645
(219660)	2005 09 26.278149 01 36 26.311+06 06 48.89 MPS 390311	645	(278610)	2005 05 10.203169 10 41 13.862+18 10 04.90 MPS 390519	645
(219780)	2001 11 21.415152 08 22 21.526+36 05 17.28 MPS 155245	645	(278894)	2005 02 04.222439 09 10 00.740+17 58 57.59 MPS 390520	645
(222382)	2001 02 20.354392 09 31 43.524+04 24 46.86 MPS 157583	645	(279105)	2002 10 31.244762 00 57 27.885-00 28 09.78 MPS 348085	645
(224842)	2006 11 20.426248 05 53 40.858+20 35 14.06 MPS 390330	645	(283053)	2006 09 19.332848 00 06 51.008-08 23 12.86 MPS 390533	645
(225309)	2003 11 16.204332 00 59 09.748+00 27 16.51 MPS 164900	645	(283200)	2003 10 24.248542 00 53 49.096+01 08 54.71 MPS 339071	645
(225429)	2013 08 28.02640 22 40 45.98 -07 09 19.0 MPS 474771	493	(283567)	2006 01 31.384408 09 58 59.024+13 29 06.86 MPS 390534	645
(225434)	2009 11 26.82290 03 44 28.10 +25 19 36.6 MPS 304738	198	(285725)	2004 10 10.130419 21 03 42.812+00 41 42.68 MPS 431003	645
(226317)	2002 12 07.519982 10 49 56.527+09 58 23.56 MPS 139302	645	(286791)	2003 09 28.347862 01 19 24.586+00 01 52.80 MPS 178328	645
(227096)	2006 11 20.436348 06 07 19.721+22 23 07.24 MPS 390339	645	(287231)	2000 03 08.34834 14 00 15.24 -10 38 23.5 MPS 178362	807
(228434)	2005 10 22.285129 01 07 55.103+01 15 42.72 MPS 390346	645	(290231)	2003 01 28.265742 09 29 49.199+10 23 00.52 MPS 311832	645
(228877)	2003 10 22.099302 21 12 25.319-00 59 56.85 MPS 137003	645	(291219)	2003 04 01.232512 11 29 08.853+07 52 48.39 MPS 254026	645
(231457)	2004 10 16.353369 01 16 50.190-00 12 25.01 MPS 390357	645	(297640)	2003 01 29.207592 09 07 54.743+30 46 22.02 MPS 149306	645
(232417)	2006 01 31.228598 04 24 42.161+18 09 45.67 MPS 390360	645	(298096)	2000 03 04.302292 09 37 48.224-02 41 11.63 MPS 175426	645
(232634)	2000 03 05.30805 10 53 04.09 -05 05 11.3 MPS 26642	807	(298219)	2002 10 10.378442 01 40 27.283+01 06 12.80 MPS 289808	645
(234277)	2004 10 10.328969 01 50 26.811+01 09 01.21 MPS 390367	645	(301831)	2000 03 05.35529 14 01 15.45 -10 29 17.6 MPS 34222	807
(235570)	2003 01 25.290582 09 24 08.174+35 44 21.95 MPS 233390	645	(302434)	2000 09 05.401852 23 27 42.303-09 11 54.20 MPS 272292	645
(237061)	2005 03 12.137039 07 52 48.725+10 14 47.39 MPS 390376	645	(306801)	2001 11 18.169902 23 15 15.969+00 38 21.92 MPS 229696	645
(237678)	2005 06 05.353009 17 15 13.905-13 05 06.84 MPS 390378	645	(307961)	2004 02 26.09897 15 25 46.74 +00 09 32.2 MPS 109979	097
(237762)	2004 09 15.226749 19 50 01.885+10 21 57.04 MPS 390378	645	(310500)	2004 12 11.438969 08 55 20.745+22 14 55.71 MPS 431025	645
(242634)	2004 05 12.361962 14 59 07.941+24 54 43.71 MPS 142675	645	(310811)	2000 03 05.35529 14 01 14.57 -10 30 36.8 MPS 26642	807
(242978)	2003 01 28.235552 08 46 30.801+08 10 56.05 MPS 312466	645	(317080)	2002 12 06.349912 07 34 37.547+20 52 25.65 MPS 175412	645
(244316)	2003 10 23.264012 01 03 29.931-00 49 43.45 MPS 152005	645	(317561)	2002 10 29.231572 01 51 21.944+00 59 18.05 MPS 155830	645
(244493)	2000 03 05.30805 10 51 43.68 -05 05 23.1 MPS 26642	807	(317732)	2003 11 19.108132 23 18 36.121-00 27 11.74 MPS 137008	645
(244993)	2002 11 08.262322 01 12 06.149+00 55 34.28 MPS 284304	645	(318037)	2000 03 05.35529 14 02 45.36 -10 22 34.8 MPS 26642	807
(246710)	1998 09 19.374083 01 45 05.534-00 34 08.76 MPS 276348	645	(322906)	2005 11 06.270779 01 03 00.085+01 12 42.81 MPS 431036	645
(252374)	2005 09 13.142429 20 33 07.512-00 51 57.72 MPS 390429	645	(323155)	2005 10 11.350639 01 14 15.030+00 45 47.43 MPS 431037	645
(252636)	2005 11 26.160739 22 24 36.135-00 19 06.57 MPS 390431	645	(324208)	2003 10 23.234842 00 21 23.077-00 21 44.42 MPS 269091	645
(253511)	2004 12 20.490549 09 30 26.919+22 02 04.35 MPS 390433	645	(334082)	2005 11 02.186819 21 05 49.762+00 25 46.63 MPS 430021	645
(253617)	2003 11 20.187152 01 03 36.479-01 05 29.68 MPS 174483	645	(334760)	2003 09 26.257852 23 23 01.635-00 29 49.07 MPS 155857	645
(254091)	2003 01 28.253082 09 12 11.261+08 34 49.14 MPS 243550	645	(336254)	2003 10 24.214722 00 04 58.675+00 49 49.81 MPS 259407	645
(258299)	2005 09 24.158209 21 15 26.831+00 41 18.45 MPS 390449	645	(337080)	2005 12 01.248919 00 51 13.440+00 10 32.06 MPS 430013	645
(258629)	2005 11 07.320839 01 12 15.463+00 25 52.46 MPS 390452	645	(337089)	2005 09 27.265529 23 42 57.997-00 24 04.49 MPS 430013	645
(259369)	2005 10 11.337029 00 54 35.945-00 56 05.51 MPS 390454	645	(338930)	2002 10 05.313962 00 01 25.627-00 38 19.45 MPS 198110	645
(259931)	2003 12 25.496002 11 36 57.418+14 14 18.17 MPS 196348	645	(343733)	2003 02 01.271182 10 05 26.219+36 15 40.53 MPS 395125	645
(260803)	2003 01 25.178852 07 42 46.526+19 20 31.52 MPS 213731	645	(344227)	2007 10 09.34988 02 03 48.14 +19 17 01.2 MPS 290120	704
(261099)	2005 09 22.290829 00 17 12.023-00 59 28.40 MPS 390461	645	(353764)	1995 08 27.65929 20 31 29.41 -20 35 41.8 MPS 426036	327
(263766)	2001 11 11.372442 03 46 45.491-00 08 36.69 MPS 252100	645	(356512)	2003 04 01.341272 14 07 15.035+05 37 13.73 MPS 394331	645
(265700)	2001 12 20.280732 08 04 07.155+28 42 02.26 MPS 150893	645	(362246)	2003 12 21.262882 07 38 37.746+15 54 14.83 MPS 441808	645
(266571)	2002 10 29.239792 02 03 14.373+00 27 15.16 MPS 250602	645	(366441)	2005 12 01.296429 01 59 50.328+00 29 43.62 MPS 430036	645
(269318)	2004 12 20.434799 08 13 21.399+13 36 24.70 MPS 390490	645	(370115)	2005 10 12.294569 01 05 06.094-00 15 28.60 MPS 430031	645
(271064)	2007 03 14.279658 13 10 58.188+10 11 03.42 MPS 390494	645	(377235)	2004 04 13.181082 08 27 22.647+19 05 13.35 MPS 137041	645
(271364)	2005 02 04.381349 10 40 03.761+21 52 10.27 MPS 390494	645	(379050)	2000 03 06.37256 14 01 02.66 -10 25 17.3 MPS 26642	807



(391699)	2001 09 21.393732 03 48 49.445+01 03 33.58	<i>MPS</i> 506387
(393300)	2000 09 05.469162 01 06 20.757−10 07 57.58	<i>MPS</i> 506608
(393435)	2003 02 07.26803 10 30 27.58 +11 46 18.8	<i>MPS</i> 175957
(393435)	2003 02 07.31991 10 30 24.48 +11 46 35.8	<i>MPS</i> 175957
(394976)	2003 10 22.293522 01 52 53.170−00 31 44.94	<i>MPS</i> 276587
(395783)	2003 10 24.294432 02 00 05.845+00 48 21.57	<i>MPS</i> 182636
(396302)	2000 10 02.381952 00 37 19.324+00 57 54.30	<i>MPS</i> 508654
(401716)	2005 03 10.38615 12 14 07.85 +00 21 14.5	<i>MPS</i> 472154
208P	2008 11 18.79703 01 43 21.76 +10 51 05.7	<i>MPC</i> 64481

## DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Reference	N	Obs.
2004 EU <sub>20</sub>	1996 09 08.50445	21 59 17.20	−47 58 35.9	<i>MPS</i> 108686		260	
2004 EU <sub>20</sub>	1996 09 08.54612	21 59 14.40	−47 58 30.8	<i>MPS</i> 108686		260	
2005 EA <sub>1</sub>	2011 12 31.25884	05 02 17.48	+30 36 20.7	<i>MPS</i> 405936		G96	
2006 SF <sub>140</sub>	2006 09 27.31588	00 59 19.60	−20 46 43.5	<i>MPS</i> 311841		703	
2008 KL <sub>4</sub>	2008 06 24.30613	16 09 35.51	−06 50 47.1	<i>MPS</i> 388398		691	
2008 KL <sub>4</sub>	2008 06 24.32465	16 09 34.86	−06 50 50.3	<i>MPS</i> 388398		691	
2008 KL <sub>4</sub>	2008 06 24.34317	16 09 34.21	−06 50 52.8	<i>MPS</i> 388398		691	
2009 SJ <sub>348</sub>	2009 10 18.55919	01 25 09.12	−22 22 29.4	<i>MPS</i> 348115		E12	
2009 UZ <sub>45</sub>	2011 02 23.84349	09 21 43.18	+32 30 34.1	<i>MPS</i> 424992		A77	
2009 UZ <sub>45</sub>	2011 02 23.85789	09 21 43.20	+32 30 37.5	<i>MPS</i> 424992		A77	
2009 UZ <sub>45</sub>	2011 02 23.87136	09 21 43.31	+32 30 36.5	<i>MPS</i> 424992		A77	
2011 EP <sub>51</sub>	2014 02 27.30071	09 46 41.88	+11 16 16.7	<i>MPS</i> 502405		G96	
2011 EP <sub>51</sub>	2014 02 27.30529	09 46 39.46	+11 16 37.6	<i>MPS</i> 502405		G96	
2011 EP <sub>51</sub>	2014 02 27.30989	09 46 37.03	+11 16 58.7	<i>MPS</i> 502405		G96	
2011 EP <sub>51</sub>	2014 02 27.31445	09 46 34.62	+11 17 19.2	<i>MPS</i> 502405		G96	
2011 UY <sub>8</sub>	1998 11 15.30973	03 18 09.13	+16 59 25.6	<i>MPS</i> 398408		691	
2011 UZ <sub>85</sub>	2012 02 03.63837	02 25 23.42	+10 43 50.4	<i>MPS</i> 410263		C41	
2011 UZ <sub>85</sub>	2012 02 03.64082	02 25 23.67	+10 43 55.1	<i>MPS</i> 410263		C41	
2012 CX <sub>45</sub>	2012 02 13.34300	09 11 28.067	+17 56 17.23	<i>MPS</i> 446084		F51	
2013 VQ <sub>4</sub>	2014 08 01.306593	22 58 15.28	+38 25 40.0	<i>MPS</i> 525618		H21	
2013 VQ <sub>4</sub>	2014 08 01.320444	22 58 13.86	+38 25 35.5	<i>MPS</i> 525618		H21	
2013 VQ <sub>4</sub>	2014 08 01.333433	22 58 12.50	+38 25 30.7	<i>MPS</i> 525618		H21	
2014 OV <sub>134</sub>	2014 06 26.52289	20 48 24.625	−20 58 42.86	<i>MPS</i> 526655		F51	
2014 OV <sub>134</sub>	2014 06 26.53511	20 48 24.154	−20 58 42.55	<i>MPS</i> 526655		F51	
2014 OW <sub>207</sub>	2014 06 03.57851	20 35 30.59	−15 59 36.4	<i>MPS</i> 526664		568	
2014 OW <sub>207</sub>	2014 06 03.57976	20 35 30.67	−15 59 36.0	<i>MPS</i> 526664		568	
2014 OW <sub>207</sub>	2014 06 03.58102	20 35 30.75	−15 59 35.5	<i>MPS</i> 526664		568	
(401768)	2004 09 14.91745	00 30 37.38	−14 02 38.0	<i>MPS</i> 500328		A50	
(401768)	2004 09 14.91922	00 30 37.14	−14 02 40.4	<i>MPS</i> 500328		A50	
(401768)	2004 09 14.93876	00 30 36.60	−14 02 48.2	<i>MPS</i> 500328		A50	
(401768)	2004 09 14.94054	00 30 36.47	−14 02 49.2	<i>MPS</i> 500328		A50	
(401771)	2014 01 21.73632	13 13 16.06	−34 50 05.1	<i>MPS</i> 506678		C51	
Geocentric position (km)	−	4938.0166	−	2500.4686	−	4113.3188	
(401771)	2014 01 21.99991	13 13 32.13	−34 53 02.6	<i>MPS</i> 506678		C51	
Geocentric position (km)	−	4901.5537	−	2500.0416	−	4156.9694	
(401771)	2014 01 22.59279	13 14 07.92	−34 59 52.3	<i>MPS</i> 506678		C51	

645	Geocentric position (km)	−	4874.8503	−	2549.6087	−	4157.7684	
	(401771) 2014 01 22.72459	13 14 15.82	−35 01 23.6	<i>MPS</i>	506678			C51
	Geocentric position (km)	−	4856.3346	−	2548.8418	−	4179.8553	
645	(401771) 2014 01 22.85626	13 14 23.74	−35 02 53.1	<i>MPS</i>	506678			C51
I03	Geocentric position (km)	−	4875.3392	−	2583.4193	−	4136.2354	
I03	(401771) 2014 01 23.11985	13 14 39.50	−35 05 55.7	<i>MPS</i>	506678			C51
645	Geocentric position (km)	−	4838.2541	−	2581.6334	−	4180.6721	
645	(402115) 2008 01 13.30109	07 15 31.10	+42 46 59.7	<i>MPS</i>	309305			703
645	(402115) 2008 01 13.30723	07 15 30.60	+42 46 57.6	<i>MPS</i>	309305			703
G96	(402115) 2008 01 13.31349	07 15 30.02	+42 46 55.3	<i>MPS</i>	309305			703
585	(402115) 2008 01 13.31963	07 15 29.55	+42 46 53.7	<i>MPS</i>	309305			703
	(402854) 2010 05 12.25333	14 53 19.68	−16 01 04.5	<i>MPS</i>	326370			691
	(402854) 2010 05 12.26847	14 53 18.72	−16 01 00.0	<i>MPS</i>	326370			691
	(402854) 2010 05 12.28363	14 53 17.79	−16 00 54.6	<i>MPS</i>	326370			691

## IDENTIFICATION CHANGES

Continuation to *MPC* 89090.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Originally	Mag.	N	Obs.
1999 FX <sub>97</sub>	*1999 03	20.281020	11 33 20.466	+01 15 06.50	2010 UZ <sub>73</sub>	19.95V		645
1999 FX <sub>97</sub>	1999 03	20.284492	11 33 20.297	+01 15 08.24	2010 UZ <sub>73</sub>	20.78		645
2000 SA <sub>377</sub>	*2000 09	26.40974	00 43 59.13	−06 50 33.4	2000 SR <sub>371</sub>	20.4		608
2000 SA <sub>377</sub>	2000 09	26.42109	00 43 58.45	−06 50 34.6	2000 SR <sub>371</sub>	20.7		608
2000 SA <sub>377</sub>	2000 09	26.43180	00 43 57.84	−06 50 35.1	2000 SR <sub>371</sub>	20.7		608
2002 RO <sub>294</sub>	*2002 09	15.26736	22 35 27.56	−13 24 30.0	2002 QT <sub>148</sub>	20.3 R		644
2002 RO <sub>294</sub>	2002 09	15.28843	22 35 26.48	−13 24 31.0	2002 QT <sub>148</sub>	19.9 R		644
2003 HD <sub>59</sub>	*2003 04	30.16248	13 04 00.57	−05 34 31.7	2003 HQ <sub>33</sub>	21.3 V		291
2003 HD <sub>59</sub>	2003 04	30.18571	13 03 59.47	−05 34 28.1	2003 HQ <sub>33</sub>	21.1 V		291
2003 HD <sub>59</sub>	2003 04	30.20889	13 03 58.42	−05 34 25.2	2003 HQ <sub>33</sub>	21.3 V		291
2003 WP <sub>195</sub>	*2003 11	26.20472	02 35 13.88	−09 52 09.4	2003 TQ <sub>21</sub>	19.6		704
2003 WP <sub>195</sub>	2003 11	26.21579	02 35 13.42	−09 52 05.0	2003 TQ <sub>21</sub>	19.4		704
2003 WP <sub>195</sub>	2003 11	26.22686	02 35 12.98	−09 52 00.4	2003 TQ <sub>21</sub>	19.6		704
2004 TG <sub>371</sub>	*2004 10	15.39205	03 21 45.73	+18 11 52.7	2009 TG <sub>6</sub>	20.8 R		G96
2004 TG <sub>371</sub>	2004 10	15.39861	03 21 45.49	+18 11 51.9	2009 TG <sub>6</sub>	21.2 R		G96
2004 TG <sub>371</sub>	2004 10	15.40521	03 21 45.24	+18 11 51.8	2009 TG <sub>6</sub>	20.6 R		G96
2004 TG <sub>371</sub>	2004 10	15.41177	03 21 44.97	+18 11 51.8	2009 TG <sub>6</sub>	20.7 R		G96
2005 DR <sub>3</sub>	*2005 02	18.35327	16 43 17.16	−27 24 04.3	2005 DX <sub>2</sub>	22.6 R		809
2005 DR <sub>3</sub>	2005 02	18.35936	16 43 17.65	−27 24 05.6	2005 DX <sub>2</sub>	21.9 R		809
2005 DR <sub>3</sub>	2005 02	18.36606	16 43 18.19	−27 24 07.1	2005 DX <sub>2</sub>	21.8 R		809
2005 FZ <sub>15</sub>	*2005 03	17.24405	11 36 01.86	+21 07 14.2	2009 VB <sub>24</sub>	21.2 R		G96
2005 FZ <sub>15</sub>	2005 03	17.24847	11 36 01.57	+21 07 15.0	2009 VB <sub>24</sub>	20.9 R		G96
2005 FZ <sub>15</sub>	2005 03	17.25291	11 36 01.40	+21 07 16.0	2009 VB <sub>24</sub>	20.9 R		G96
2005 FZ <sub>15</sub>	2005 03	17.25726	11 36 01.13	+21 07 16.3	2009 VB <sub>24</sub>	21.0 R		G96
2005 TC <sub>198</sub>	*2005 10	01.30350	00 18 35.17	+03 31 01.5	2005 TV <sub>20</sub>	20.2 V		703
2005 TC <sub>198</sub>	2005 10	01.30997	00 18 34.70	+03 31 00.0	2005 TV <sub>20</sub>	20.8 V		703
2005 TC <sub>198</sub>	2005 10	01.31652	00 18 34.48	+03 30 59.4	2005 TV <sub>20</sub>	20.0 V		703
2005 TC <sub>198</sub>	2005 10	01.32301	00 18 34.09	+03 30 56.9	2005 TV <sub>20</sub>	20.0 V		703
2005 US <sub>531</sub>	*2005 10	31.28308	02 18 34.41	+09 29 25.9	2005 UZ <sub>387</sub>	20.9 V		G96
2005 US <sub>531</sub>	2005 10	31.28843	02 18 34.16	+09 29 24.9	2005 UZ <sub>387</sub>	20.7 V		G96
2005 US <sub>531</sub>	2005 10	31.29376	02 18 33.84	+09 29 23.5	2005 UZ <sub>387</sub>	20.9 V		G96
2005 US <sub>531</sub>	2005 10	31.29910	02 18 33.55	+09 29 21.8	2005 UZ <sub>387</sub>	20.8 V		G96
2005 UT <sub>531</sub>	*2005 10	22.45446	09 28 28.72	+17 39 36.7	2010 JT <sub>111</sub>	21.3 V		691



2005 UT <sub>531</sub>	2005 10 22.46690	09 28 30.03	+17 39 34.2	2010 JT <sub>111</sub>	21.6 V	691	2008 KK <sub>43</sub>	2008 05 28.23275	14 31 49.40	-03 36 58.6	2008 HY <sub>62</sub>	21.4 V	G96
2005 UT <sub>531</sub>	2005 10 22.47934	09 28 31.25	+17 39 28.1	2010 JT <sub>111</sub>	21.3 V	691	2008 KK <sub>43</sub>	2008 05 28.23993	14 31 49.15	-03 36 58.5	2008 HY <sub>62</sub>	22.0 V	G96
2005 XD <sub>119</sub>	*2005 12 05.33310	05 24 02.52	+25 46 03.8	2005 WX <sub>163</sub>	19.9 V	G96	2008 KK <sub>43</sub>	2008 05 28.24705	14 31 48.86	-03 36 59.8	2008 HY <sub>62</sub>	21.8 V	G96
2005 XD <sub>119</sub>	2005 12 05.34035	05 24 02.08	+25 46 02.8	2005 WX <sub>163</sub>	19.2 V	G96	2008 LG <sub>18</sub>	*2008 06 02.90087	17 06 33.08	-05 59 53.3	2003 SN <sub>327</sub>	19.1 V	A50
2005 XD <sub>119</sub>	2005 12 05.34756	05 24 01.65	+25 46 03.2	2005 WX <sub>163</sub>	19.7 V	G96	2008 LG <sub>18</sub>	2008 06 02.90258	17 06 33.04	-05 59 52.8	2003 SN <sub>327</sub>	19.5 V	A50
2005 XD <sub>119</sub>	2005 12 05.35482	05 24 01.22	+25 46 03.6	2005 WX <sub>163</sub>	19.9 V	G96	2008 LG <sub>18</sub>	2008 06 02.90429	17 06 32.95	-05 59 52.7	2003 SN <sub>327</sub>	19.6 V	A50
2006 BS <sub>285</sub>	*2006 01 27.24689	08 18 46.29	+27 53 57.4	2011 SD <sub>40</sub>	21.7 V	G96	2008 LG <sub>18</sub>	2008 06 02.92303	17 06 32.02	-05 59 45.5	2003 SN <sub>327</sub>	20.5 V	A50
2006 BS <sub>285</sub>	2006 01 27.25267	08 18 45.75	+27 53 58.0	2011 SD <sub>40</sub>	21.1 V	G96	2008 UX <sub>372</sub>	*2008 10 30.38003	04 28 24.19	+28 55 48.4	2008 UA <sub>245</sub>	21.2 V	691
2006 BS <sub>285</sub>	2006 01 27.25814	08 18 45.50	+27 53 58.9	2011 SD <sub>40</sub>	21.1 V	G96	2008 UX <sub>372</sub>	2008 10 30.39817	04 28 23.32	+28 55 50.1	2008 UA <sub>245</sub>	21.0 V	691
2006 BS <sub>285</sub>	2006 01 27.26363	08 18 45.00	+27 53 59.3	2011 SD <sub>40</sub>	21.1 V	G96	2008 UX <sub>372</sub>	2008 10 30.41588	04 28 22.48	+28 55 52.0	2008 UA <sub>245</sub>	20.8 V	691
2006 CP <sub>80</sub>	*2006 02 01.33641	10 33 08.53	+12 42 11.4	2006 BR <sub>274</sub>	21.7 V	691	2008 UX <sub>372</sub>	2008 11 08.37557	04 20 12.03	+29 05 47.6	2008 UA <sub>245</sub>	20.8 V	691
2006 CP <sub>80</sub>	2006 02 01.35369	10 33 07.79	+12 42 13.1	2006 BR <sub>274</sub>	21.0 V	691	2008 UX <sub>372</sub>	2008 11 08.39324	04 20 10.93	+29 05 48.3	2008 UA <sub>245</sub>	21.1 V	691
2006 CP <sub>80</sub>	2006 02 01.37097	10 33 07.00	+12 42 14.7	2006 BR <sub>274</sub>	21.7 V	691	2008 UX <sub>372</sub>	2008 11 08.41091	04 20 09.81	+29 05 49.0	2008 UA <sub>245</sub>	21.0 V	691
2006 CP <sub>80</sub>	2006 02 21.37290	10 17 02.89	+13 17 38.1	2006 BR <sub>274</sub>	291		2008 UY <sub>372</sub>	*2008 10 28.38405	02 36 50.22	+12 14 51.7	2008 SE <sub>243</sub>	20.3 V	G96
2006 CP <sub>80</sub>	2006 02 21.37690	10 17 02.66	+13 17 38.5	2006 BR <sub>274</sub>	291		2008 UY <sub>372</sub>	2008 10 28.38957	02 36 49.82	+12 14 50.2	2008 SE <sub>243</sub>	20.2 V	G96
2006 CP <sub>80</sub>	2006 02 21.38072	10 17 02.48	+13 17 38.8	2006 BR <sub>274</sub>	291		2008 UY <sub>372</sub>	2008 10 28.39505	02 36 49.46	+12 14 49.0	2008 SE <sub>243</sub>	20.4 V	G96
2006 CP <sub>80</sub>	2006 02 24.17857	10 14 39.50	+13 22 17.1	2006 BR <sub>274</sub>	21.4 V	691	2008 UY <sub>372</sub>	2008 10 28.40053	02 36 49.14	+12 14 48.0	2008 SE <sub>243</sub>	20.7 V	G96
2006 CP <sub>80</sub>	2006 02 24.19585	10 14 38.59	+13 22 18.8	2006 BR <sub>274</sub>	21.5 V	691	2008 WP <sub>142</sub>	*2008 11 20.33932	03 53 17.88	+16 00 59.7	2008 VH <sub>20</sub>	21.0 V	G96
2006 CP <sub>80</sub>	2006 02 24.21316	10 14 37.76	+13 22 21.0	2006 BR <sub>274</sub>	21.0 V	691	2008 WP <sub>142</sub>	2008 11 20.34494	03 53 17.59	+16 00 58.7	2008 VH <sub>20</sub>	21.2 V	G96
2006 CP <sub>80</sub>	2006 02 27.29392	10 12 00.86	+13 27 07.1	2006 BR <sub>274</sub>	21.8 V	G96	2008 WP <sub>142</sub>	2008 11 20.35051	03 53 17.30	+16 00 57.6	2008 VH <sub>20</sub>	21.3 V	G96
2006 CP <sub>80</sub>	2006 02 27.29874	10 12 00.61	+13 27 07.8	2006 BR <sub>274</sub>	21.5 V	G96	2008 WP <sub>142</sub>	2008 11 20.35708	03 53 16.90	+16 00 57.0	2008 VH <sub>20</sub>	21.3 V	G96
2006 CP <sub>80</sub>	2006 02 27.30357	10 12 00.39	+13 27 07.6	2006 BR <sub>274</sub>	21.4 V	G96	2009 CT <sub>66</sub>	*2009 02 04.49634	09 26 14.03	+16 12 57.2	2009 CA <sub>37</sub>	291	
2006 CP <sub>80</sub>	2006 02 27.30839	10 12 00.14	+13 27 08.6	2006 BR <sub>274</sub>	22.2 V	G96	2009 CT <sub>66</sub>	2009 02 04.50071	09 26 13.81	+16 12 59.0	2009 CA <sub>37</sub>	291	
2006 DA <sub>219</sub>	*2006 02 20.28154	09 27 05.04	+14 11 47.0	2006 CJ <sub>68</sub>	21.4 V	G96	2009 CT <sub>66</sub>	2009 02 04.50454	09 26 13.57	+16 12 59.6	2009 CA <sub>37</sub>	291	
2006 DA <sub>219</sub>	2006 02 20.29127	09 27 04.60	+14 11 50.8	2006 CJ <sub>68</sub>	22.1 V	G96	2009 CU <sub>66</sub>	*2009 02 15.16887	08 54 09.07	+32 18 28.6	2009 BF <sub>175</sub>	19.6 V	703
2006 DA <sub>219</sub>	2006 02 20.29821	09 27 04.32	+14 11 54.1	2006 CJ <sub>68</sub>	20.9 V	G96	2009 CU <sub>66</sub>	2009 02 15.17488	08 54 08.71	+32 18 27.6	2009 BF <sub>175</sub>	20.0 V	703
2006 DA <sub>219</sub>	2006 02 20.31619	09 27 03.45	+14 12 02.7	2006 CJ <sub>68</sub>	21.0 V	G96	2009 CU <sub>66</sub>	2009 02 15.18101	08 54 08.17	+32 18 26.3	2009 BF <sub>175</sub>	20.6 V	703
2006 ET <sub>75</sub>	*2006 03 05.21679	09 20 12.44	+15 46 51.0	2006 CJ <sub>68</sub>	21.2 V	G96	2009 HO <sub>108</sub>	*2009 04 23.42632	15 54 49.06	-22 50 47.6	2008 AR <sub>65</sub>	20.2 V	G96
2006 ET <sub>75</sub>	2006 03 05.22231	09 20 12.30	+15 46 52.8	2006 CJ <sub>68</sub>	21.6 V	G96	2009 HO <sub>108</sub>	2009 04 23.43128	15 54 48.88	-22 50 47.4	2008 AR <sub>65</sub>	20.5 V	G96
2006 ET <sub>75</sub>	2006 03 05.22799	09 20 12.08	+15 46 55.0	2006 CJ <sub>68</sub>	21.6 V	G96	2009 HO <sub>108</sub>	2009 04 23.43636	15 54 48.63	-22 50 48.0	2008 AR <sub>65</sub>	20.4 V	G96
2006 ET <sub>75</sub>	2006 03 05.23360	09 20 11.94	+15 46 56.8	2006 CJ <sub>68</sub>	21.5 V	G96	2009 HO <sub>108</sub>	2009 04 23.44136	15 54 48.38	-22 50 47.7	2008 AR <sub>65</sub>	20.9 V	G96
2006 KT <sub>145</sub>	*2006 05 25.40837	16 52 48.54	-06 59 16.0	2006 MV <sub>3</sub>	19.6 V	G96	2009 QO <sub>65</sub>	*2009 08 27.18804	19 46 49.17	-27 34 33.9	2009 OV	20.1 R	H11
2006 KT <sub>145</sub>	2006 05 25.41394	16 52 48.28	-06 59 11.6	2006 MV <sub>3</sub>	19.6 V	G96	2009 QO <sub>65</sub>	2009 08 27.19390	19 46 48.97	-27 34 37.8	2009 OV	20.8 R	H11
2006 KT <sub>145</sub>	2006 05 25.41954	16 52 48.00	-06 59 07.1	2006 MV <sub>3</sub>	19.9 V	G96	2009 TG <sub>49</sub>	*2009 10 12.42537	01 25 55.95	+08 38 32.9	2009 SJ <sub>211</sub>	21.3 V	G96
2006 TZ <sub>130</sub>	*2006 10 11.28920	01 22 57.73	-00 32 58.9	2006 UW <sub>155</sub>	19.9 R	644	2009 TG <sub>49</sub>	2009 10 12.42731	01 25 55.88	+08 38 31.5	2009 SJ <sub>211</sub>	21.3 V	G96
2006 TZ <sub>130</sub>	2006 10 11.30998	01 22 56.68	-00 33 05.3	2006 UW <sub>155</sub>	19.9 R	644	2009 TG <sub>49</sub>	2009 10 12.42925	01 25 55.77	+08 38 31.2	2009 SJ <sub>211</sub>	21.5 V	G96
2006 TZ <sub>130</sub>	2006 10 11.33197	01 22 55.52	-00 33 12.1	2006 UW <sub>155</sub>	20.1 R	644	2009 TG <sub>49</sub>	2009 10 12.43118	01 25 55.63	+08 38 30.6	2009 SJ <sub>211</sub>	20.1 V	G96
2006 WB <sub>207</sub>	*2006 11 22.17513	01 59 51.14	+04 53 22.8	2010 TD <sub>51</sub>	21.6	G96	2009 UZ <sub>157</sub>	*2009 10 27.03183	03 37 31.11	+00 31 02.2	2009 UK <sub>145</sub>	19.7 V	J75
2006 WB <sub>207</sub>	2006 11 22.18347	01 59 50.85	+04 53 22.6	2010 TD <sub>51</sub>	21.5	G96	2009 UZ <sub>157</sub>	2009 10 27.04513	03 37 30.24	+00 31 00.8	2009 UK <sub>145</sub>	19.8 V	J75
2006 WB <sub>207</sub>	2006 11 22.19166	01 59 50.49	+04 53 22.1	2010 TD <sub>51</sub>	22.1	G96	2009 UZ <sub>157</sub>	2009 10 27.05843	03 37 29.50	+00 30 59.7	2009 UK <sub>145</sub>	20.0 V	J75
2006 WB <sub>207</sub>	2006 11 22.19987	01 59 50.17	+04 53 22.4	2010 TD <sub>51</sub>	21.1	G96	2010 DB <sub>93</sub>	*2010 02 16.26873	11 37 42.32	+05 58 13.0	2010 CJ <sub>122</sub>	20.8 V	691
2006 WC <sub>207</sub>	*2006 11 18.43591	07 49 17.83	+18 20 24.5	2006 XG <sub>37</sub>	20.1 V	G96	2010 DB <sub>93</sub>	2010 02 16.28636	11 37 41.62	+05 58 17.2	2010 CJ <sub>122</sub>	20.9 V	691
2006 WC <sub>207</sub>	2006 11 18.44591	07 49 17.90	+18 20 25.4	2006 XG <sub>37</sub>	19.4 V	G96	2010 DB <sub>93</sub>	2010 02 16.30396	11 37 40.89	+05 58 21.3	2010 CJ <sub>122</sub>	20.8 V	691
2006 WC <sub>207</sub>	2006 11 18.45090	07 49 18.01	+18 20 27.4	2006 XG <sub>37</sub>	20.7 V	G96	2010 EZ <sub>172</sub>	*2010 03 12.24754	11 03 33.66	+09 26 18.1	2010 EN <sub>42</sub>	21.1 V	703
2008 GU <sub>147</sub>	*2008 04 05.23995	11 01 24.20	+15 46 55.9	2006 UD <sub>322</sub>	20.6 V	G96	2010 EZ <sub>172</sub>	2010 03 12.25326	11 03 33.33	+09 26 19.2	2010 EN <sub>42</sub>	21.2 V	703
2008 GU <sub>147</sub>	2008 04 05.24664	11 01 23.98	+15 46 56.8	2006 UD <sub>322</sub>	20.6 V	G96	2010 EZ <sub>172</sub>	2010 03 12.25904	11 03 32.97	+09 26 22.4	2010 EN <sub>42</sub>	19.9 V	703
2008 GU <sub>147</sub>	2008 04 05.25322	11 01 23.80	+15 46 58.1	2006 UD <sub>322</sub>	20.3 V	G96	2010 EZ <sub>172</sub>	2010 03 12.26481	11 03 32.86	+09 26 25.8	2010 EN <sub>42</sub>	21.1 V	703
2008 GU <sub>147</sub>	2008 04 05.25980	11 01 23.59	+15 46 59.5	2006 UD <sub>322</sub>	20.1 V	G96	2010 GF <sub>175</sub>	*2010 04 15.23318	12 04 05.80	+08 23 39.6	2010 FQ <sub>94</sub>	20.9 V	G96
2008 GV <sub>147</sub>	*2008 04 13.29848	12 45 55.36	-06 35 47.2	2008 HR <sub>39</sub>	21.1 V	G96	2010 GF <sub>175</sub>	2010 04 15.24021	12 04 05.59	+08 23 41.5	2010 FQ <sub>94</sub>	20.8 V	G96
2008 GV <sub>147</sub>	2008 04 13.30499	12 45 55.11	-06 35 43.5	2008 HR <sub>39</sub>	20.5 V	G96	2010 GF <sub>175</sub>	2010 04 15.24729	12 04 05.34	+08 23 43.5	2010 FQ <sub>94</sub>	20.4 V	G96
2008 GV <sub>147</sub>	2008 04 13.31149	12 45 54.75	-06 35 40.8	2008 HR <sub>39</sub>	20.9 V	G96	2010 GF <sub>175</sub>	2010 04 15.25435	12 04 05.05	+08 23 45.8	2010 FQ <sub>94</sub>	20.9 V	G96
2008 GV <sub>147</sub>	2008 04 13.31799	12 45 54.50	-06 35 37.2	2008 HR <sub>39</sub>	20.7 V	G96	2010 KJ <sub>130</sub>	*2010 05 20.26190	14 45 28.33	-16 59 26.7	2010 JZ <sub>171</sub>	21.0 V	G96
2008 KK <sub>43</sub>	*2008 05 28.22557	14 31 49.65	-03 36 58.3	2008 HY <sub>62</sub>	22.5 V	G96	2010 KJ <sub>130</sub>	2010 05 20.26793	14 45 28.00	-16 59 25.5	2010 JZ <sub>171</sub>	21.1 V	G96



2010 KJ <sub>130</sub>	2010 05 20.27393	14 45 27.75	-16 59 24.7	2010 JZ <sub>171</sub>	20.8 V	G96	2010 XM <sub>90</sub>	2010 12 15.24877	04 08 25.47	+08 20 23.7	2005 SM <sub>176</sub>	20.9 V	G96
2010 KJ <sub>130</sub>	2010 05 20.27992	14 45 27.46	-16 59 22.8	2010 JZ <sub>171</sub>	20.7 V	G96	2010 XM <sub>90</sub>	2010 12 15.25509	04 08 25.11	+08 20 25.4	2005 SM <sub>176</sub>	20.4 V	G96
2010 KK <sub>130</sub>	*2010 05 16.33123	15 57 39.02	-17 02 38.5	2010 JD <sub>176</sub>	20.1 V	G96	2011 EV <sub>87</sub>	*2011 03 03.22039	09 44 42.72	+12 15 12.0	2011 DG <sub>28</sub>	21.0 V	G96
2010 KK <sub>130</sub>	2010 05 16.33725	15 57 38.66	-17 02 36.9	2010 JD <sub>176</sub>	19.9 V	G96	2011 EV <sub>87</sub>	2011 03 03.22562	09 44 42.46	+12 15 11.9	2011 DG <sub>28</sub>	21.5 V	G96
2010 KK <sub>130</sub>	2010 05 16.34326	15 57 38.34	-17 02 35.3	2010 JD <sub>176</sub>	19.4 V	G96	2011 EV <sub>87</sub>	2011 03 03.23088	09 44 42.14	+12 15 11.7	2011 DG <sub>28</sub>	20.9 V	G96
2010 KK <sub>130</sub>	2010 05 16.34929	15 57 37.94	-17 02 33.4	2010 JD <sub>176</sub>	20.3 V	G96	2011 EV <sub>87</sub>	2011 03 03.23611	09 44 41.89	+12 15 11.2	2011 DG <sub>28</sub>	21.3 V	G96
2010 KL <sub>130</sub>	*2010 05 19.25213	14 20 34.36	-05 48 41.1	2010 JQ <sub>148</sub>	19.2 V	703	2011 FO <sub>158</sub>	*2011 03 30.37193	12 52 45.26	-00 27 41.5	1999 XQ <sub>139</sub>	21.2 V	G96
2010 KL <sub>130</sub>	2010 05 19.25893	14 20 34.04	-05 48 41.5	2010 JQ <sub>148</sub>	19.7 V	703	2011 FO <sub>158</sub>	2011 03 30.37778	12 52 45.01	-00 27 40.0	1999 XQ <sub>139</sub>	21.7 V	G96
2010 KL <sub>130</sub>	2010 05 19.26763	14 20 33.54	-05 48 40.2	2010 JQ <sub>148</sub>	19.9 V	703	2011 FO <sub>158</sub>	2011 03 30.38361	12 52 44.72	-00 27 38.2	1999 XQ <sub>139</sub>	21.4 V	G96
2010 KL <sub>130</sub>	2010 05 19.27452	14 20 33.10	-05 48 39.8	2010 JQ <sub>148</sub>	19.4 V	703	2011 FO <sub>158</sub>	2011 03 30.38942	12 52 44.43	-00 27 37.0	1999 XQ <sub>139</sub>	21.1 V	G96
2010 LX <sub>135</sub>	*2010 06 11.23748	15 46 38.92	-20 11 25.7	2010 LM <sub>63</sub>	19.8 V	G96	2011 SH <sub>277</sub>	*2011 09 26.41180	02 44 54.76	+11 25 51.1	2011 SY <sub>82</sub>	20.7 V	691
2010 LX <sub>135</sub>	2010 06 11.24220	15 46 38.78	-20 11 24.0	2010 LM <sub>63</sub>	19.7 V	G96	2011 SH <sub>277</sub>	2011 09 26.42955	02 44 54.34	+11 25 45.9	2011 SY <sub>82</sub>	21.0 V	691
2010 LX <sub>135</sub>	2010 06 11.24699	15 46 38.49	-20 11 23.3	2010 LM <sub>63</sub>	20.0 V	G96	2011 SH <sub>277</sub>	2011 09 26.44730	02 44 54.01	+11 25 39.9	2011 SY <sub>82</sub>	21.5 V	691
2010 RC <sub>187</sub>	*2010 09 05.46303	03 54 04.93	+18 12 16.7	2010 VZ <sub>104</sub>	20.4 V	G96	2011 SJ <sub>277</sub>	*2011 09 26.41180	02 45 15.13	+11 33 06.6	2011 SX <sub>82</sub>	20.6 V	691
2010 RC <sub>187</sub>	2010 09 05.46879	03 54 05.07	+18 12 17.4	2010 VZ <sub>104</sub>	20.2 V	G96	2011 SJ <sub>277</sub>	2011 09 26.42955	02 45 14.81	+11 33 02.1	2011 SX <sub>82</sub>	20.8 V	691
2010 RC <sub>187</sub>	2010 09 05.47452	03 54 05.14	+18 12 18.0	2010 VZ <sub>104</sub>	20.4 V	G96	2011 SJ <sub>277</sub>	2011 09 26.44730	02 45 14.45	+11 32 57.0	2011 SX <sub>82</sub>	21.1 V	691
2010 RC <sub>187</sub>	2010 09 05.48035	03 54 05.29	+18 12 18.6	2010 VZ <sub>104</sub>	20.5 V	G96	2011 SJ <sub>277</sub>	2011 09 30.41742	02 43 53.22	+11 14 27.0	2011 SX <sub>82</sub>	20.8 V	691
2010 RD <sub>187</sub>	*2010 09 15.25940	22 02 40.52	-10 47 12.1	2010 RC <sub>163</sub>	20.6 V	G96	2011 SJ <sub>277</sub>	2011 09 30.43517	02 43 52.71	+11 14 21.8	2011 SX <sub>82</sub>	20.8 V	691
2010 RD <sub>187</sub>	2010 09 15.26786	22 02 40.20	-10 47 13.0	2010 RC <sub>163</sub>	20.2 V	G96	2011 SJ <sub>277</sub>	2011 09 30.45294	02 43 52.26	+11 14 16.2	2011 SX <sub>82</sub>	20.9 V	691
2010 RD <sub>187</sub>	2010 09 15.27623	22 02 39.87	-10 47 13.8	2010 RC <sub>163</sub>	20.7 V	G96	2011 UL <sub>410</sub>	*2011 10 31.17329	02 38 47.18	+19 51 43.7	2011 UJ <sub>78</sub>	20.6 V	691
2010 RD <sub>187</sub>	2010 09 15.28468	22 02 39.55	-10 47 14.6	2010 RC <sub>163</sub>	20.6 V	G96	2011 UL <sub>410</sub>	2011 10 31.19107	02 38 46.24	+19 51 38.0	2011 UJ <sub>78</sub>	20.7 V	691
2010 RE <sub>187</sub>	*2010 09 10.36004	01 28 03.07	+10 49 50.4	2010 RR <sub>61</sub>	21.4 V	691	2011 UL <sub>410</sub>	2011 10 31.20886	02 38 45.28	+19 51 32.3	2011 UJ <sub>78</sub>	20.7 V	691
2010 RE <sub>187</sub>	2010 09 10.37780	01 28 02.36	+10 49 51.6	2010 RR <sub>61</sub>	21.2 V	691	2011 WP <sub>156</sub>	*2011 11 30.30924	04 03 38.88	+17 46 42.5	2011 WO <sub>87</sub>	20.8 V	G96
2010 RE <sub>187</sub>	2010 09 10.39553	01 28 01.66	+10 49 53.0	2010 RR <sub>61</sub>	21.0 V	691	2011 WP <sub>156</sub>	2011 11 30.31670	04 03 38.41	+17 46 42.6	2011 WO <sub>87</sub>	20.6 V	G96
2010 SH <sub>43</sub>	*2010 09 17.27516	23 48 17.49	-02 02 39.9	2010 RM <sub>134</sub>	22.0 V	G96	2011 WP <sub>156</sub>	2011 11 30.32433	04 03 37.94	+17 46 43.0	2011 WO <sub>87</sub>	21.1 V	G96
2010 SH <sub>43</sub>	2010 09 17.28155	23 48 17.20	-02 02 41.7	2010 RM <sub>134</sub>	20.6 V	G96	2011 WP <sub>156</sub>	2011 11 30.33184	04 03 37.47	+17 46 42.8	2011 WO <sub>87</sub>	20.9 V	G96
2010 SH <sub>43</sub>	2010 09 17.28793	23 48 16.95	-02 02 43.6	2010 RM <sub>134</sub>	20.9 V	G96	2011 YH <sub>79</sub>	*2011 12 27.13899	03 42 07.77	+17 47 28.7	2011 WN <sub>110</sub>	22.4 V	G96
2010 SH <sub>43</sub>	2010 09 17.29432	23 48 16.63	-02 02 46.2	2010 RM <sub>134</sub>	21.6 V	G96	2011 YH <sub>79</sub>	2011 12 27.14762	03 42 07.45	+17 47 28.7	2011 WN <sub>110</sub>	20.7 V	G96
2010 TY <sub>190</sub>	*2010 10 07.41919	00 46 48.39	+13 01 40.9	2010 RL <sub>113</sub>	20.2 V	G96	2011 YH <sub>79</sub>	2011 12 27.15639	03 42 07.12	+17 47 29.4	2011 WN <sub>110</sub>	21.0 V	G96
2010 TY <sub>190</sub>	2010 10 07.42387	00 46 48.10	+13 01 39.3	2010 RL <sub>113</sub>	20.5 V	G96	2011 YH <sub>79</sub>	2011 12 27.16502	03 42 06.87	+17 47 30.0	2011 WN <sub>110</sub>	20.8 V	G96
2010 TY <sub>190</sub>	2010 10 07.42854	00 46 47.85	+13 01 37.4	2010 RL <sub>113</sub>	20.4 V	G96	2012 BQ <sub>153</sub>	*2012 01 26.22808	07 55 45.51	+19 05 01.0	2012 BO <sub>50</sub>	21.5 V	G96
2010 TY <sub>190</sub>	2010 10 07.43321	00 46 47.60	+13 01 35.1	2010 RL <sub>113</sub>	20.4 V	G96	2012 BQ <sub>153</sub>	2012 01 26.23329	07 55 45.19	+19 05 02.2	2012 BO <sub>50</sub>	21.7 V	G96
2010 TZ <sub>190</sub>	*2010 10 12.16122	23 59 13.07	+02 17 16.1	2010 TT <sub>66</sub>	20.9 V	691	2012 BQ <sub>153</sub>	2012 01 26.23856	07 55 44.90	+19 05 03.5	2012 BO <sub>50</sub>	21.0 V	G96
2010 TZ <sub>190</sub>	2010 10 12.17907	23 59 12.31	+02 17 11.1	2010 TT <sub>66</sub>	21.3 V	691	2012 BQ <sub>153</sub>	2012 01 26.24382	07 55 44.65	+19 05 05.0	2012 BO <sub>50</sub>	20.8 V	G96
2010 TZ <sub>190</sub>	2010 10 12.19696	23 59 11.53	+02 17 06.4	2010 TT <sub>66</sub>	20.8 V	691	2012 BQ <sub>153</sub>	2012 01 26.49855	07 55 30.730	+19 06 08.42	2012 BO <sub>50</sub>	21.6 i	F51
2010 TA <sub>191</sub>	*2010 10 03.14894	02 29 13.28	+16 30 18.0	2010 TQ <sub>2</sub>	21.0 V	941	2012 BQ <sub>153</sub>	2012 01 26.51149	07 55 30.010	+19 06 11.44	2012 BO <sub>50</sub>	21.4 i	F51
2010 TA <sub>191</sub>	2010 10 03.15563	02 29 13.00	+16 30 18.6	2010 TQ <sub>2</sub>	21.1 V	941	2012 BQ <sub>153</sub>	2012 01 26.53666	07 55 28.616	+19 06 17.49	2012 BO <sub>50</sub>	21.2 r	F51
2010 TA <sub>191</sub>	2010 10 03.17870	02 29 11.92	+16 30 18.1	2010 TQ <sub>2</sub>	20.1 V	941	2012 BR <sub>153</sub>	*2012 01 26.18050	07 25 45.69	+19 35 14.3	2012 BK <sub>37</sub>	20.4 V	G96
2010 TA <sub>191</sub>	2010 10 03.19284	02 29 11.36	+16 30 18.7	2010 TQ <sub>2</sub>	20.9 V	941	2012 BR <sub>153</sub>	2012 01 26.18572	07 25 45.37	+19 35 16.2	2012 BK <sub>37</sub>	20.0 V	G96
2010 VK <sub>223</sub>	*2010 11 10.20628	00 36 54.03	+04 37 39.8	2010 TP <sub>52</sub>	21.9 V	G96	2012 BR <sub>153</sub>	2012 01 26.19103	07 25 45.12	+19 35 18.8	2012 BK <sub>37</sub>	20.2 V	G96
2010 VK <sub>223</sub>	2010 11 10.21271	00 36 53.78	+04 37 39.6	2010 TP <sub>52</sub>	22.1 V	G96	2012 BR <sub>153</sub>	2012 01 26.19623	07 25 44.86	+19 35 20.2	2012 BK <sub>37</sub>	20.4 V	G96
2010 VK <sub>223</sub>	2010 11 10.21907	00 36 53.60	+04 37 39.5	2010 TP <sub>52</sub>	22.2 V	G96	2012 BS <sub>153</sub>	*2012 01 26.30352	08 17 40.92	+22 29 54.4	2012 BS <sub>42</sub>	20.6 V	G96
2010 VK <sub>223</sub>	2010 11 10.22546	00 36 53.42	+04 37 39.6	2010 TP <sub>52</sub>	21.9 V	G96	2012 BS <sub>153</sub>	2012 01 26.30873	08 17 40.59	+22 29 55.1	2012 BS <sub>42</sub>	20.5 V	G96
2010 VL <sub>223</sub>	*2010 11 11.16532	01 13 04.76	+07 49 55.5	2010 VW <sub>101</sub>	20.7 V	G96	2012 BS <sub>153</sub>	2012 01 26.31402	08 17 40.27	+22 29 55.9	2012 BS <sub>42</sub>	20.3 V	G96
2010 VL <sub>223</sub>	2010 11 11.17053	01 13 04.54	+07 49 54.4	2010 VW <sub>101</sub>	20.3 V	G96	2012 BS <sub>153</sub>	2012 01 26.31925	08 17 39.91	+22 29 56.6	2012 BS <sub>42</sub>	20.4 V	G96
2010 VL <sub>223</sub>	2010 11 11.17580	01 13 04.44	+07 49 53.9	2010 VW <sub>101</sub>	20.2 V	G96	2012 BS <sub>153</sub>	2012 01 26.50256	08 17 28.470	+22 30 23.72	2012 BS <sub>42</sub>	20.2 i	F51
2010 VL <sub>223</sub>	2010 11 11.18105	01 13 04.15	+07 49 53.1	2010 VW <sub>101</sub>	20.9 V	G96	2012 BS <sub>153</sub>	2012 01 26.51549	08 17 27.639	+22 30 25.42	2012 BS <sub>42</sub>	20.3 i	F51
2010 WZ <sub>74</sub>	*2010 11 30.40571	05 18 30.70	+24 40 59.0	2010 VA <sub>82</sub>	19.1 V	G96	2012 BS <sub>153</sub>	2012 01 26.54048	08 17 26.058	+22 30 28.72	2012 BS <sub>42</sub>	20.5 r	F51
2010 WZ <sub>74</sub>	2010 11 30.41382	05 18 30.16	+24 41 00.8	2010 VA <sub>82</sub>	19.5 V	G96	2012 BT <sub>153</sub>	*2012 01 26.30352	08 18 05.79	+22 27 39.7	2012 BV <sub>42</sub>	21.8 V	G96
2010 WZ <sub>74</sub>	2010 11 30.42185	05 18 29.73	+24 41 01.2	2010 VA <sub>82</sub>	18.9 V	G96	2012 BT <sub>153</sub>	2012 01 26.30873	08 18 05.47	+22 27 41.1	2012 BV <sub>42</sub>	21.8 V	G96
2010 WZ <sub>74</sub>	2010 11 30.42991	05 18 29.23	+24 41 02.9	2010 VA <sub>82</sub>	19.2 V	G96	2012 BT <sub>153</sub>	2012 01 26.31402	08 18 05.14	+22 27 41.0	2012 BV <sub>42</sub>	21.8 V	G96
2010 XM <sub>90</sub>	*2010 12 15.23629	04 08 26.08	+08 20 19.8	2005 SM <sub>176</sub>	21.1 V	G96	2012 BT <sub>153</sub>	2012 01 26.31925	08 18 04.89	+22 27 41.5	2012 BV <sub>42</sub>	21.8 V	G96
2010 XM <sub>90</sub>	2010 12 15.24254	04 08 25.76	+08 20 21.9	2005 SM <sub>176</sub>	21.2 V	G96	2012 BU <sub>153</sub>	*2012 01 26.50943	09 10 11.318	+20 58 33.32	2012 CO <sub>31</sub>	21.4 i	F51



2012 BU <sub>153</sub>	2012 01 26.52216	09 10 10.535+20 58 36.74	2012 CO <sub>31</sub>	21.6 i	F51	2013 JX <sub>63</sub>	*2013 05 03.27432	09 55 58.290+02 30 18.45	2013 CW <sub>208</sub>	21.3 z	F51
2012 BU <sub>153</sub>	2012 01 26.53466	09 10 09.796+20 58 40.13	2012 CO <sub>31</sub>	21.7 r	F51	2013 JX <sub>63</sub>	2013 05 03.28024	09 55 58.439+02 30 18.99	2013 CW <sub>208</sub>	21.5 z	F51
2012 BU <sub>153</sub>	2012 01 26.54698	09 10 09.062+20 58 43.95	2012 CO <sub>31</sub>	21.3 r	F51	2013 JX <sub>63</sub>	2013 05 03.28319	09 55 58.524+02 30 19.08	2013 CW <sub>208</sub>	21.4 z	F51
2012 DT <sub>98</sub>	*2012 02 29.22343	11 30 57.00 +06 29 21.1	2010 VZ <sub>197</sub>	21.0 V	691	2013 JX <sub>63</sub>	2013 05 03.28615	09 55 58.602+02 30 19.41	2013 CW <sub>208</sub>	21.5 z	F51
2012 DT <sub>98</sub>	2012 02 29.23900	11 30 56.33 +06 29 26.8	2010 VZ <sub>197</sub>	21.1 V	691	2013 JX <sub>63</sub>	2013 05 03.28911	09 55 58.682+02 30 19.50	2013 CW <sub>208</sub>	21.5 z	F51
2012 DT <sub>98</sub>	2012 02 29.25491	11 30 55.64 +06 29 32.8	2010 VZ <sub>197</sub>	21.1 V	691	2013 JX <sub>63</sub>	2013 05 03.29205	09 55 58.773+02 30 19.94	2013 CW <sub>208</sub>	21.3 z	F51
2012 EA <sub>18</sub>	*2012 03 02.31844	11 43 21.23 -01 07 22.5	2005 QV <sub>100</sub>	21.2 V	691	2013 JX <sub>63</sub>	2013 05 04.29640	09 56 28.016+02 31 41.48	2013 CW <sub>208</sub>	21.8 g	F51
2012 EA <sub>18</sub>	2012 03 02.33777	11 43 20.32 -01 07 17.3	2005 QV <sub>100</sub>	21.2 V	691	2013 JX <sub>63</sub>	2013 05 04.29788	09 56 28.057+02 31 41.52	2013 CW <sub>208</sub>	21.8 g	F51
2012 EA <sub>18</sub>	2012 03 02.36057	11 43 19.26 -01 07 11.3	2005 QV <sub>100</sub>	21.4 V	691	2013 JX <sub>63</sub>	2013 05 04.29935	09 56 28.100+02 31 41.66	2013 CW <sub>208</sub>	22.0 g	F51
2012 FW <sub>83</sub>	*2012 03 23.39268	12 11 03.30 +03 16 28.3	2012 FN <sub>22</sub>	21.2 V	G96	2013 JX <sub>63</sub>	2013 05 04.30083	09 56 28.123+02 31 41.72	2013 CW <sub>208</sub>	22.1 g	F51
2012 FW <sub>83</sub>	2012 03 23.39968	12 11 02.97 +03 16 30.1	2012 FN <sub>22</sub>	21.3 V	G96	2013 JX <sub>63</sub>	2013 05 04.30232	09 56 28.183+02 31 41.85	2013 CW <sub>208</sub>	21.9 g	F51
2012 FW <sub>83</sub>	2012 03 23.40664	12 11 02.61 +03 16 31.6	2012 FN <sub>22</sub>	20.5 V	G96	2013 JX <sub>63</sub>	2013 05 04.30381	09 56 28.214+02 31 42.05	2013 CW <sub>208</sub>	22.0 g	F51
2012 FW <sub>83</sub>	2012 03 23.41370	12 11 02.29 +03 16 33.2	2012 FN <sub>22</sub>	20.5 V	G96	2013 JY <sub>63</sub>	*2013 05 08.44068	16 04 19.824-13 37 49.24	2010 TD <sub>51</sub>	21.9 w	F51
2012 KP <sub>51</sub>	*2012 05 18.36096	14 35 41.320+01 15 55.86	2012 HO <sub>36</sub>	22.1 w	F51	2013 JY <sub>63</sub>	2013 05 08.45476	16 04 19.096-13 37 46.34	2010 TD <sub>51</sub>	21.6 w	F51
2012 KP <sub>51</sub>	2012 05 18.37453	14 35 40.660+01 15 55.34	2012 HO <sub>36</sub>	22.5 w	F51	2013 JY <sub>63</sub>	2013 05 08.46885	16 04 18.328-13 37 43.43	2010 TD <sub>51</sub>	21.7 w	F51
2012 KP <sub>51</sub>	2012 05 18.38814	14 35 40.038+01 15 55.45	2012 HO <sub>36</sub>	22.1 w	F51	2013 JY <sub>63</sub>	2013 05 08.48299	16 04 17.603-13 37 40.49	2010 TD <sub>51</sub>	21.7 w	F51
2012 KP <sub>51</sub>	2012 05 18.40178	14 35 39.397+01 15 55.58	2012 HO <sub>36</sub>	22.1 w	F51	2013 JY <sub>63</sub>	2013 05 09.09998	16 03 46.51 -13 35 33.6	2010 TD <sub>51</sub>	20.9 R	493
2012 LY <sub>26</sub>	*2012 06 13.24360	14 58 09.69 -13 32 17.1	2007 VU <sub>142</sub>	21.5 V	G96	2013 JY <sub>63</sub>	2013 05 09.12007	16 03 45.44 -13 35 29.2	2010 TD <sub>51</sub>	21.0 R	493
2012 LY <sub>26</sub>	2012 06 13.24990	14 58 09.48 -13 32 16.8	2007 VU <sub>142</sub>	22.0 V	G96	2013 JY <sub>63</sub>	2013 05 09.13991	16 03 44.38 -13 35 24.7	2010 TD <sub>51</sub>	20.6 R	493
2012 LY <sub>26</sub>	2012 06 13.25627	14 58 09.37 -13 32 16.5	2007 VU <sub>142</sub>	21.2 V	G96	2014 LL <sub>28</sub>	*2014 06 04.26466	15 52 50.02 -18 43 25.7	2005 SL <sub>120</sub>	21.3 V	G96
2012 LY <sub>26</sub>	2012 06 13.26265	14 58 09.12 -13 32 16.2	2007 VU <sub>142</sub>	22.0 V	G96	2014 LL <sub>28</sub>	2014 06 04.27019	15 52 49.83 -18 43 25.5	2005 SL <sub>120</sub>	21.1 V	G96
2012 VT <sub>113</sub>	*2012 11 07.16720	01 33 38.48 +11 16 11.0	2012 UB <sub>113</sub>	20.2 V	G96	2014 LL <sub>28</sub>	2014 06 04.27568	15 52 49.56 -18 43 25.0	2005 SL <sub>120</sub>	20.6 V	G96
2012 VT <sub>113</sub>	2012 11 07.17266	01 33 38.23 +11 16 09.5	2012 UB <sub>113</sub>	20.3 V	G96	2014 LL <sub>28</sub>	2014 06 04.28112	15 52 49.27 -18 43 24.0	2005 SL <sub>120</sub>	20.8 V	G96
2012 VT <sub>113</sub>	2012 11 07.17815	01 33 38.05 +11 16 08.4	2012 UB <sub>113</sub>	20.4 V	G96	2014 NT <sub>65</sub>	*2014 07 07.52566	21 09 17.534-13 11 17.25	2006 SE <sub>243</sub>	21.1 w	F51
2012 VT <sub>113</sub>	2012 11 07.18362	01 33 37.80 +11 16 07.2	2012 UB <sub>113</sub>	20.4 V	G96	2014 NT <sub>65</sub>	2014 07 07.53749	21 09 17.174-13 11 19.19	2006 SE <sub>243</sub>	21.1 w	F51
2012 YN <sub>9</sub>	*2012 12 23.58063	08 22 43.851+21 32 36.59	2013 CV <sub>84</sub>	22.2 w	F51	2014 NT <sub>65</sub>	2014 07 07.54929	21 09 16.821-13 11 21.02	2006 SE <sub>243</sub>	21.0 w	F51
2012 YN <sub>9</sub>	2012 12 23.58194	08 22 43.766+21 32 37.15	2013 CV <sub>84</sub>	21.9 w	F51	2014 NT <sub>65</sub>	2014 07 07.56112	21 09 16.453-13 11 22.99	2006 SE <sub>243</sub>	21.0 w	F51
2012 YN <sub>9</sub>	2012 12 23.59504	08 22 43.248+21 32 40.67	2013 CV <sub>84</sub>	22.1 w	F51	2014 OX <sub>392</sub>	*2014 07 30.56732	00 20 47.974+00 48 56.32	2014 OF <sub>231</sub>	22.2 w	F51
2012 YN <sub>9</sub>	2012 12 23.59637	08 22 43.214+21 32 40.74	2013 CV <sub>84</sub>	21.8 w	F51	2014 OX <sub>392</sub>	2014 07 30.57974	00 20 48.344+00 48 57.89	2014 OF <sub>231</sub>	21.9 w	F51
2012 YN <sub>9</sub>	2012 12 23.60942	08 22 42.688+21 32 44.30	2013 CV <sub>84</sub>	21.6 w	F51	2014 OX <sub>392</sub>	2014 07 30.59222	00 20 48.763+00 48 59.20	2014 OF <sub>231</sub>	21.8 w	F51
2012 YN <sub>9</sub>	2012 12 23.61074	08 22 42.643+21 32 44.84	2013 CV <sub>84</sub>	21.9 w	F51	2014 OX <sub>392</sub>	2014 07 30.60477	00 20 49.146+00 49 00.72	2014 OF <sub>231</sub>	21.7 w	F51
2013 BF <sub>82</sub>	*2013 01 22.42493	08 52 05.16 +24 29 46.7	2013 AQ <sub>125</sub>	19.6 V	G96	2014 PG <sub>68</sub>	*2014 08 02.280459	20 08 02.71 -26 48 27.8	2014 OQ <sub>391</sub>	20.2 V	W87
2013 BF <sub>82</sub>	2013 01 22.43256	08 52 04.65 +24 29 50.0	2013 AQ <sub>125</sub>	20.0 V	G96	2014 PG <sub>68</sub>	2014 08 02.282516	20 08 02.56 -26 48 30.6	2014 OQ <sub>391</sub>	20.3 V	W87
2013 BF <sub>82</sub>	2013 01 22.44050	08 52 04.22 +24 29 53.4	2013 AQ <sub>125</sub>	20.3 V	G96	2014 PG <sub>68</sub>	2014 08 02.284520	20 08 02.41 -26 48 33.3	2014 OQ <sub>391</sub>	20.0 V	W87
2013 BG <sub>82</sub>	*2013 01 16.50725	07 32 32.023+23 59 18.37	2013 AF <sub>86</sub>	20.9 w	F51	2014 PG <sub>68</sub>	2014 08 02.286572	20 08 02.23 -26 48 36.2	2014 OQ <sub>391</sub>	20.2 V	W87
2013 BG <sub>82</sub>	2013 01 16.52169	07 32 31.229+23 59 21.97	2013 AF <sub>86</sub>	21.0 w	F51	2014 PG <sub>68</sub>	2014 08 02.288576	20 08 02.09 -26 48 38.8	2014 OQ <sub>391</sub>	20.2 V	W87
2013 BH <sub>82</sub>	*2013 01 22.32640	08 07 15.92 +18 17 34.9	2013 BS <sub>55</sub>	21.5 V	G96	2014 PG <sub>68</sub>	2014 08 02.290580	20 08 01.93 -26 48 41.7	2014 OQ <sub>391</sub>	20.3 V	W87
2013 BH <sub>82</sub>	2013 01 22.33458	08 07 15.45 +18 17 37.1	2013 BS <sub>55</sub>	21.5 V	G96						
2013 BH <sub>82</sub>	2013 01 22.34267	08 07 14.95 +18 17 39.4	2013 BS <sub>55</sub>	20.9 V	G96						
2013 BH <sub>82</sub>	2013 01 22.35075	08 07 14.44 +18 17 41.1	2013 BS <sub>55</sub>	21.5 V	G96						
2013 DV <sub>16</sub>	*2013 02 16.37545	11 04 05.88 +21 25 32.5	2013 CT <sub>192</sub>	20.6 V	G96						
2013 DV <sub>16</sub>	2013 02 16.37780	11 04 05.80 +21 25 33.7	2013 CT <sub>192</sub>	20.9 V	G96						
2013 DV <sub>16</sub>	2013 02 16.38016	11 04 05.70 +21 25 34.8	2013 CT <sub>192</sub>	20.5 V	G96						
2013 DV <sub>16</sub>	2013 02 16.38252	11 04 05.52 +21 25 35.4	2013 CT <sub>192</sub>	20.5 V	G96						
2013 DV <sub>16</sub>	2013 02 16.38492	11 04 05.48 +21 25 36.3	2013 CT <sub>192</sub>	20.3 V	G96						
2013 EP <sub>153</sub>	*2013 03 13.37602	11 30 36.68 +06 25 56.2	2013 EK <sub>52</sub>	21.1 V	G96						
2013 EP <sub>153</sub>	2013 03 13.38127	11 30 36.39 +06 25 58.2	2013 EK <sub>52</sub>	20.8 V	G96						
2013 EP <sub>153</sub>	2013 03 13.38654	11 30 36.07 +06 26 00.3	2013 EK <sub>52</sub>	21.0 V	G96						
2013 EP <sub>153</sub>	2013 03 13.39184	11 30 35.82 +06 26 01.8	2013 EK <sub>52</sub>	21.3 V	G96						
2013 FE <sub>28</sub>	*2013 03 18.34350	10 42 15.15 +11 37 58.0	2013 CR <sub>159</sub>	21.1 V	G96						
2013 FE <sub>28</sub>	2013 03 18.35178	10 42 14.68 +11 38 00.0	2013 CR <sub>159</sub>	21.5 V	G96						
2013 FE <sub>28</sub>	2013 03 18.36006	10 42 14.18 +11 38 01.3	2013 CR <sub>159</sub>	20.7 V	G96						
2013 FE <sub>28</sub>	2013 03 18.36831	10 42 13.82 +11 38 02.8	2013 CR <sub>159</sub>	21.2 V	G96						

## IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continue the list on *MPC* 89093:

2005 TV <sub>20</sub>	= (403931)	1999 TO <sub>261</sub>	= (404691)	2007 VL <sub>336</sub>	= (404813)
2011 SY <sub>82</sub>	= (402535)	2011 SJ <sub>277</sub>	= (402535)	2005 UZ <sub>387</sub>	= (403696)
2006 CS <sub>74</sub>	= (404176)	2013 CQ <sub>90</sub>	= (404938)	2001 FE <sub>180</sub>	= (403979)
2009 SO <sub>172</sub>	= (404099)	1999 AS <sub>39</sub>	= (403345)	2003 HQ <sub>33</sub>	= (404826)
2006 CJ <sub>68</sub>	= (404550)	2010 CJ <sub>122</sub>	= (404636)	2003 BT <sub>92</sub>	= (404640)
2012 UB <sub>113</sub>	= (404640)	2011 WO <sub>87</sub>	= (404842)	2011 WN <sub>110</sub>	= (404842)
2006 SJ <sub>414</sub>	= (404728)	2006 UW <sub>361</sub>	= (404728)	2006 UX <sub>361</sub>	= (404728)
2009 EJ <sub>31</sub>	= (404689)	2010 JZ <sub>171</sub>	= (404170)	2010 KS <sub>8</sub>	= (404170)
2002 VR <sub>140</sub>	= (404690)				



## NUMBERING OF PERIODIC COMETS

Continuation to the list on *MPC* 89093.

309P/2005 Q4 = 2014 Q4 (LINEAR)

310P/2006 S6 = 2014 Q5 (Hill)

311P/2013 P5 (PANSTARRS)

## OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

- 089 Nikolaev. Observers Y. Sybiryakova, Y. Kozyryev, N. Kulichenko, V. Vovk. Measurers Y. Sybiryakova, O. V. Shulga. 0.5-m  $f/6.0$  Maksutov + CCD.
- 095 Crimea-Nauchnij. Observer S. Nazarov. Measurers T. Prystavski, S. Plaksa. 0.7-m  $f/4.0$  reflector + CCD.
- 104 San Marcello Pistoiese. Observer P. Bacci. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m  $f/4$  reflector + CCD.
- 106 Črni Vrh. Observer H. Mikuž. 0.6-m  $f/3.3$  Deltagraph + CCD.
- 123 Byurakan. Observer V. Nevski. 0.4-m  $f/2.5$  reflector + CCD.
- 152 Moletai Astronomical Observatory. Observers K. Černis, H. Selevicius. Measurer K. Černis. 0.35-m  $f/3.5$  reflector + CCD.
- 157 Frasso Sabino. Observers R. Haver, R. Gorelli. Measurer R. Haver. 0.37-m  $f/6.85$  Cassegrain + CCD.
- 160 Castelmartini. Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann. Measurer E. Prosperi. 0.35-m  $f/10$  Schmidt-Cassegrain + CCD.
- 168 Kouroukaya. Observers G. Kaiser, Y. Wiebe. 0.40-m  $f/0.78$  Schmidt + CCD.
- 203 GiaGa Observatory. Observers S. Foglia, G. Galli. Measurer G. Galli. 0.28-m  $f/6.8$  Schmidt-Cassegrain + CCD.
- 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  $f/8$  Schmidt-Cassegrain + CCD.
- 233 San Vito. Observer S. Donati. 0.30-m  $f/10$  Schmidt-Cassegrain + CCD.
- 238 Grorudalen Optical Observatory. Observer O. Trondal. 0.61-m Cassegrain + CCD.
- 247 Roving Observer. Observer S. Beck. 0.20-m  $f/2.8$  Newtonian reflector + CCD.
- 250 Hubble Space Telescope. Observers D. Jewitt, H. Weaver, M. Mutchler. Measurer J. Agarwal.
- 309 Cerro Paranal. Measurer C. Snodgrass. 8.0-m VLT + CCD + focal reducer.
- 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.
- 400 Kitami. Observer K. Endate. 0.30-m  $f/3.8$  reflector + CCD.
- 434 S. Benedetto Po. Observer R. Furgoni. 0.40-m  $f/8$  Ritchey-Chrétien + CCD +  $f/5.5$  focal reducer.
- 458 Guadarrama Observatory. Observer D. Rodríguez. 0.25-m  $f/6.3$  Schmidt-Cassegrain + CCD.
- 461 University of Szeged, Piskésető Stn. (Konkoly). Observers A. Pal, K. Vida, L. Kriskovics, K. Sárneczky, R. Szakats. Measurer K. Sárneczky. 0.60-m Schmidt + CCD, 1.02-m Ritchey-Chrétien + CCD.
- 470 Ceccano. Observers G. Masi, P. L. Catalano, N. Paul. Measurers G. Masi, U. Masi, N. Paul. 0.43-m  $f/6.8$  reflector + CCD.
- 474 Mount John Observatory, Lake Tekapo. Observers A. C. Gilmore, P. M. Kilmartin. Measurer P. M. Kilmartin. 1.0-m  $f/7.7$  reflector + CCD.
- 568 Mauna Kea. Observers H. Hsieh, C. Trujillo, J. Kemp, A. Stephens, B. Bolin, J. Dvorak, R. J. Wainscoat, D. Woodworth. Measurers M. Micheli, H. Hsieh, B. Bolin, P. Veres, R. J. Wainscoat. 2.24-m University of Hawaii reflector + CCD, 3.6-m Canada-France-Hawaii Telescope + CCD.
- 583 Odessa-Mayaki. Observers V. Kashuba, Y. Gorbanev, S. Podlesnyak, V. Zhukov, S. Kashuba. Measurer I. Stogneevea. 0.80-m  $f/3.0$  hyperbolic astrophotograph + CCD.
- 585 Kyiv comet station. Observers A. Baransky, B. Baransky. 0.7-m  $f/4$  reflector + CCD.
- 586 Pic du Midi. Observers E. Frappa, M. Lavayssiere, R. Behrend. Measurer R. Behrend. 1.05-m  $f/12.7$  reflector + CCD.
- 595 Farra d'Isonzo. Observer E. Pettarin. 0.61-m  $f/4.0$  reflector + CCD.
- 608 Haleakala-NEAT/MSSS. Observers S. Pravdo, M. Hicks, K. Lawrence, D. MacDonald, P. Kervin, J. Africano. Measurer R. J. Bouma. 1.2-m reflector + CCD.
- 644 Palomar Mountain/NEAT. Observers R. Bamberg, E. Helin, S. Pravdo, M. Hicks, K. Lawrence, R. Thicksten. Measurer R. J. Bouma. 1.2-m Schmidt + CCD.
- 691 Steward Observatory, Kitt Peak. Observers R. A. Mastaler, J. V. Scotti. 0.9-m  $f/3$  reflector + CCD.
- 703 Catalina Sky Survey. Observers R. A. Kowalski, J. A. Johnson. Measurers R. A. Kowalski, S. M. Larson, F. C. Shelly, E. J. Christensen, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson. 0.68-m Schmidt + CCD.
- 809 European Southern Observatory, La Silla. Observer O. Hainaut. 3.6-m  $f/11$  New Technology Telescope + CCD.
- 821 Córdoba-Bosque Alegre. Observers R. Melia, C. Colazo. Measurer C. Colazo. 1.54-m  $f/4.8$  reflector + CCD.
- 844 Los Molinos. Observers R. Salvo, L. Almenares, S. Roland. Measurer R. Salvo.
- 850 Cordell-Lorenz Observatory, Sewanee. Observer D. T. Durig. 0.3-m  $f/2.5$  Schmidt-Cassegrain + CCD, 0.3-m  $f/3.8$  Schmidt-Cassegrain + CCD, 0.3-m  $f/7.5$  Schmidt-Cassegrain + CCD, 0.3-m  $f/9$  Schmidt-Cassegrain + CCD, 0.30-m  $f/9.2$  Schmidt-Cassegrain + CCD.
- 900 Moriama. Observer Y. Ikari. 0.26-m  $f/7.0$  reflector + CCD.
- 926 Tenagra II Observatory. Observers M. Schwartz, P. R. Holvorcem. 0.81-m  $f/7$  Ritchey-Chrétien + CCD.
- 958 Observatoire de Dax. Observers P. Dupouy, J. B. de Vanssay. Measurer P. Dupouy. 0.43-m  $f/2.7$  reflector + CCD.
- 970 Chelmsford. Observer N. D. James. 0.28-m  $f/10$  Schmidt-Cassegrain + CCD.
- A02 Masia Cal Maciarol Modul 8. Observer J. L. Salto. 0.25-m  $f/10.5$  Schmidt-Cassegrain + CCD.
- A06 Mataró. Observer E. Cortes. 0.25-m  $f/3.6$  Schmidt-Cassegrain + CCD.
- A12 Stazione Astronomica di Sozzago. Observers F. Manzini, V. Oldani, A. Dan, R. Crippa. Measurers F. Manzini, R. Behrend. 0.4-m  $f/6.6$  reflector + CCD.
- A21 Irmtraut. Observer J. J. Muller. 0.31-m  $f/4.8$  reflector + CCD.



- A32 Panker. Observer H. Denzau. 0.36-m  $f/5.5$  Schmidt-Cassegrain + CCD.  
A77 Observatoire Chante-Perdrix, Dauban. Observers A. Klotz, F. Kugel, J. Nicolas, C. Rinner. Measurers F. Kugel, J. Nicolas, C. Rinner. 0.20-m  $f/2.1$  Schmidt-Cassegrain + CCD, 0.41-m  $f/3.3$  reflector + CCD.  
A81 Balzareto Observatory, Rome. Observer L. Franco. 0.20-m  $f/5.3$  reflector + CCD.  
A98 Taurus-1 Observatory, Baran'. Observer S. Shurpakov. 0.41-m  $f/3.8$  reflector + CCD.  
B33 Libbiano Observatory, Peccioli. Observers P. Bacci, M. Feraboli. Measurer P. Bacci. 0.5-m  $f/8$  Ritchey-Chrétien + CCD.  
B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m  $f/4$  Newtonian reflector + CCD.  
B50 Corner Observatory, Durmersheim. Observer J. Linder. 0.20-m  $f/4.7$  Schmidt-Cassegrain + CCD.  
B51 Vallauris. Observer J. Nicolas. 0.28-m  $f/6.5$  reflector + CCD.  
B53 Casal Lumbroso, Rome. Observer D. Pivato. 0.19-m  $f/4.0$  reflector + CCD.  
B54 Ager. Observer J. Bel. 0.30-m  $f/10.28$  Schmidt-Cassegrain + CCD.  
B59 Borken. Observer C. Overhaus. 0.13-m  $f/7.5$  refractor + CCD.  
B70 Sant Celoni. Observer L. Montoro. 0.20-m  $f/8$  Schmidt-Cassegrain + CCD.  
B74 Santa Maria de Montmagastrell. Observers J. M. Bosch, R. Olivera. Measurer J. M. Bosch. 0.40-m  $f/10$  Schmidt-Cassegrain + CCD.  
B92 Chinon. Observer M. Audejean. 0.32-m  $f/6$  Newtonian reflector + CCD.  
B96 Brixis Observatory, Kruikebe. Observer E. Bryssinck. 0.4-m  $f/3.8$  astrograph + CCD.  
C04 Kramatorsk. Observer S. Plaksa. 0.25-m  $f/3.4$  reflector + CCD.  
C10 Maisoncelles. Observer J.-F. Soulier. 0.30-m  $f/3.8$  Newtonian reflector + CCD.  
C23 Olmen. Observer A. Diepvens. 0.20-m  $f/9$  refractor + CCD.  
C28 Wellinghofen. Observer T. Zilch. 0.08-m  $f/7$  refractor + CCD.  
C35 Terrassa. Observer J. Aledo. 0.40-m  $f/2.5$  reflector.  
C36 Starry Wanderer Observatory, Baran'. Observer S. Shurpakov. 0.07-m  $f/4.5$  refractor + CCD, 0.15-m  $f/3.2$  reflector + CCD.  
C47 Nonndorf. Observer G. Dangl. 0.25-m  $f/4.8$  reflector + CCD.  
C51 WISE. Measurers A. K. Mainzer, J. M. Bauer, T. Grav, J. R. Masiero, J. W. Dailey, R. M. Cutri, E. L. Wright, C. Nugent, S. Sonnett, R. Stevenson.  
C73 Galați Observatory. Observers O. Tercu, A. Dumitriu. 0.4-m  $f/8$  Ritchey-Chrétien + CCD.  
C77 Bernezzo Observatory. Observer A. Mantero. 0.25-m  $f/4$  reflector + CCD.  
C79 Roser Observatory, Blanes. Observer E. Aguilar.  
C86 Blanes. Observer J. Gaitan. 0.25-m  $f/6.8$  reflector + CCD.  
C90 Vinyols. Observer L. Tremosa. 0.30-m  $f/5$  reflector + CCD.  
D81 Nagano. Observer Y. Ohshima. 0.30-m  $f/4.6$  reflector + CCD.  
D90 RAS Observatory, Moorook. Observer K. Hills. 0.41-m  $f/9$  Ritchey-Chrétien + CCD.  
D95 Kurihara. Observer T. Takahashi. 0.25-m  $f/4.2$  reflector + CCD.  
E07 Murrumbateman. Observer D. Herald. 0.40-m  $f/10$  Schmidt-Cassegrain + CCD.  
E10 Siding Spring-Faulkes Telescope South. Observer R. Miles. 2.0-m  $f/10.0$  Ritchey-Chrétien + CCD.  
E16 Grove Creek Observatory, Trunkey. Observer M. S. Ferlito. 0.36-m  $f/11$  Schmidt-Cassegrain + 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, T. Goggia, M. Willman. Measurers B. Bolin, K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Magnier, E. Schunova, R. Wainscoat, C. Waters. 1.8-m Ritchey-Chrétien + CCD.  
F65 Haleakala-Faulkes Telescope North. Observers P. Miller, E. Gomez, R. Holmes, L. Buzzi, S. Foglia, T. Vorobjov, T. Linder. Measurers L. Buzzi, S. Foglia. 2.0-m  $f/10$  Ritchey-Chrétien + CCD.  
G30 Casselman. Observer S. Bergeron. 0.30-m  $f/5$  Ritchey-Chrétien + CCD.  
G36 Calar Alto-CASADO. Observers S. Mottola, S. Hellmich. 1.23-m  $f/8$  reflector + CCD.  
G39 ROAD, San Pedro de Atacama. Observers J. Hambsch, E. Bryssinck. 0.4-m  $f/6.8$  astrograph + CCD.  
G40 Slooh.com Canary Islands Observatory. Observer A. J. Evans. 0.35-m  $f/11$  Schmidt-Cassegrain + CCD.  
G44 Observatorio Longa Vista, Sao Paulo. Observer A. Oliveira. 0.40-m Ritchey-Chrétien + CCD.  
G45 Space Surveillance Telescope, Atom Site. Observers L. Banks, M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige, W. Robertson, G. Spitz. Measurers G. Brown, C. Byun, M. Cornell, M. Goldberg, A. Klein, J. Parham, J. Ruprecht, G. Ushomirsky, H. Viggh, D. Woods. 3.5-m  $f/1$  reflector + CCD.  
G68 Sierra Stars Observatory, Markleeville. Observer R. Dymock. 0.61-m  $f/10$  reflector + CCD.  
G96 Mt. Lemmon Survey. Observer A. D. Grauer. Measurers E. J. Christensen, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson, R. A. Kowalski, S. M. Larson, F. C. Shelly. 1.5-m reflector + CCD.  
H06 iTelescope Observatory, Mayhill. Observers H. Sato, P. S. Lau, E. Guido, N. Howes, M. Nicolini, N. Paul, S. M. Tilley. 0.43-m  $f/6.8$  astrograph + CCD +  $f/4.5$  focal reducer, 0.51-m  $f/6.8$  astrograph + CCD +  $f/4.5$  focal reducer.  
H15 ISON-NM Observatory, Mayhill. Observer L. Elenin. Measurers L. Elenin, V. Savanevych, A. Bryukhovetskiy. 0.4-m  $f/3$  reflector + CCD.  
H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers T. Vorobjov, L. Buzzi, S. Foglia, T. Linder. 0.61-m  $f/4.0$  astrograph + CCD, 0.61-m  $f/4.5$  astrograph + CCD.  
H45 Arkansas Sky Obs., Petit Jean Mountain South. Observer P. C. Sherrod. Measurers P. C. Sherrod, L. P. Sherrod. 0.51-m  $f/4.3$  astrograph + CCD.  
H47 Vicksburg. Observer C. Bell. 0.3-m Schmidt-Cassegrain + CCD.  
I15 Wishing Star Observatory, Barrington. Observers H. Peterson, A. Gautam. Measurer H. Peterson. 0.35-m  $f/10$  Schmidt-Cassegrain + CCD +  $f/5.87$  focal reducer.  
I39 Observatorio Cruz del Sur, San Justo. Observer A. Chapman. 0.20-m  $f/4$  reflector + CCD.  
I47 Pierre Auger Observatory, Malargüe. Observers M. Masek, K. Honkova, J. Jurysek, J. Cerny. Measurers M. Masek, J. Cerny. 0.3-m  $f/10$  reflector + CCD.  
I57 Elche. Observer J. Lozano. 0.25-m  $f/6.3$  Corrected Dall-Kirkham + CCD.  
I72 Observatorio Carpe-Noctem, Madrid. Observer J. L. Martin. 0.30-m  $f/8$  Ritchey-Chrétien + CCD.  
I81 Tarbatness Observatory, Portmahomack. Observer D. Buczynski. 0.35-m Schmidt-Cassegrain + CCD +  $f/6$  focal reducer.  
I88 Fuensanta de Martos. Observer J. Carrillo. 0.36-m  $f/5$  reflector.



- I89 iTelescope Observatory, Nerpio. Observers A. Novichonok, H. Sato, E. Bryssinck. Measurers T. Prystavski, H. Sato, E. Bryssinck. 0.15-m  $f/7.3$  refractor + CCD, 0.32-m  $f/8.0$  astrograph + CCD, 0.43-m  $f/6.8$  reflector + CCD.
- I99 Observatorio Blanquita, Vaciamadrid. Observer F. Limon. 0.20-m  $f/5.7$  Schmidt-Cassegrain + CCD.
- J01 Observatorio Cielo Profundo, Oviedo. Observer J. Gonzalez. 0.23-m  $f/6$  Schmidt-Cassegrain + CCD.
- J04 ESA Optical Ground Station, Tenerife. Observer D. Abreu. Measurers H. Bill, M. Busch, U. Carsenty, F. Hormuth, D. Koschny, M. Micheli, R. Reszelewski, S. Schmalz, E. Schwab, S. Shurpakov, T. Thommes. 1.0-m  $f/4.4$  reflector + CCD.
- J24 Observatorio Altamira. Observer J. F. Hernandez. 0.4-m  $f/10$  Schmidt-Cassegrain + CCD.
- J38 Observatorio La Vara, Valdés. Observer F. García. 0.25-m  $f/8.1$  Ritchey-Chrétien + CCD.
- J43 Oukaïmeden Observatory, Marrakech. Observer C. Rinner. 0.5-m  $f/3$  reflector + CCD.
- J53 Posadas. Observer R. Benavides. 0.28-m  $f/5$  Schmidt-Cassegrain + CCD.
- J75 OAM Observatory, La Sagra. Observers S. Sanchez, J. Nomen, M. Hurtado, W. K. Y. Yeung, J. A. Jaume, F. Serra, T. Valls, I. Mas. 0.45-m  $f/2.8$  reflector + CCD.
- J87 La Cañada. Observer J. Lacruz. 0.40-m Ritchey-Chrétien + CCD.
- J93 Mount Tuffley Observatory, Gloucester. Observer J. Fletcher. 0.25-m  $f/5.9$  Schmidt-Cassegrain + CCD.
- J95 Great Shefford. Observer P. Birtwhistle. 0.40-m  $f/6.0$  Schmidt-Cassegrain + CCD.
- K14 Observatorio de Sencelles. Observer M. Morales. 0.20-m  $f/5$  reflector + CCD.
- K15 Murviel-lès-Montpellier. Observer G. Sachot. 0.13-m  $f/7.0$  refractor + CCD.
- K25 Haute Provence Sud, Saint-Michel-l'Observatoire. Observer L. Arnold. 0.20-m  $f/5.5$  Newtonian reflector + CCD.
- K35 Huenfelden. Observer P. Rimmel. 0.35-m  $f/1.9$  reflector + CCD.
- K40 Altdorf. Observer M. Mifsud. 0.20-m  $f/3.75$  Schmidt-Cassegrain + CCD.
- K61 Rokycany Observatory. Observers M. Adamovsky, O. Trnka. Measurers M. Masek, M. Adamovsky, O. Trnka. 0.51-m  $f/6.8$  reflector + CCD.
- K90 Sopot Astronomical Observatory. Observer V. Benishek. Measurers V. Benishek, B. Benishek.
- L04 ROASTERR-1 Observatory, Cluj-Napoca. Observer L. Hudin. 0.3-m  $f/5.0$  reflector + CCD.
- L22 Bărlad Observatory. Observers C. Vintdevara, A. Dumitriu. 0.2-m  $f/4$  Newtonian reflector + CCD.
- L51 MARGO, Nauchnij. Observer G. Borisov. 0.3-m  $f/1.5$  astrograph + CCD.
- P25 Kinmen Educational Remote Observatory, Jincheng. Observers S.-H. Tsai, T. Chen. 0.41-m  $f/8$  Ritchey-Chrétien + CCD.
- Q62 iTelescope Observatory, Siding Spring. Observers M. Mattiazzo, N. Paul, H. Sato, A. Novichonok, M. Suzuki, R. Ligustri. Measurers M. Mattiazzo, N. Paul, H. Sato, T. Prystavski, M. Suzuki, R. Ligustri. 0.1-m  $f/5.0$  astrograph + CCD, 0.32-m  $f/7.4$  Ritchey-Chrétien + CCD, 0.43-m  $f/6.8$  astrograph + CCD, 0.43-m  $f/6.8$  reflector + CCD, 0.51-m  $f/6.8$  astrograph + CCD +  $f/4.5$  focal reducer.

- Q68 Blue Mountains Observatory, Leura. Observers J. Oey, P. Camilleri, H. Williams. Measurer P. Camilleri. 0.34-m  $f/5.9$  Schmidt-Cassegrain + CCD.
- Q80 Birkdale. Observer T. Lovejoy. 0.20-m  $f/2.1$  Schmidt-Cassegrain + CCD.
- U69 iTelescope SRO Observatory, Auberry. Observers H. Sato, P. S. Lau, N. Paul, E. Bryssinck. 0.61-m  $f/6.5$  astrograph + CCD.
- W88 Slooh.com Chile Observatory, La Dehesa. Observer C. E. Drescher. Measurers C. E. Drescher, A. J. Evans. 0.35-m  $f/11$  Schmidt-Cassegrain + CCD.
- W95 Observatorio Panameno, San Pedro de Atacama. Observer A. Maury. Measurers J. Fabrega, A. Maury.
- W96 CAO, San Pedro de Atacama (since 2013). Observers A. Maury, J.-F. Soulier, J.-G. Bosch, T. Noel, A. Oksanen. Measurers J.-F. Soulier, J.-G. Bosch, T. Noel, A. Oksanen. 0.4-m  $f/8$  Ritchey-Chrétien + CCD.
- W99 SON San Pedro de Atacama Station. Observers A. Oksanen, C. Harlinton. Measurer A. Oksanen.
- Y00 SONEAR Observatory, Oliveira. Observers C. Jacques, E. Pimentel, J. Barros. Measurer C. Jacques. 0.28-m  $f/2.2$  astrograph + CCD, 0.45-m  $f/2.9$  reflector + CCD.
- Y28 OASI, Nova Itacuruba. Observers G. Tancredi, D. Lazzaro, T. Rodrigues, R. Souza. Measurer G. Tancredi.
- Z74 Amanecer de Arrakis. Observer F. C. Soldan A. 0.2-m  $f/6.7$  Schmidt-Cassegrain + CCD.
- Z75 Observatorio Sirius, Las Lomas. Observer J. Sanchez. 0.20-m Newtonian reflector + CCD.
- Z76 Observatorio Carda, Villaviciosa. Observer K. Diez. 0.20-m  $f/6.3$  Schmidt-Cassegrain + CCD.
- Z81 Observatorio Estrella de Mar. Observer G. Liñán. 0.28-m Schmidt-Cassegrain + CCD +  $f/6.3$  focal reducer.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.	N	Obs.
<b>C/2001 O2 (NEAT)</b>							
C/2001 O2	2001 08	10.41808	22 32 52.60	-24 05 02.5	19.1 N		644
C/2001 O2	2001 08	10.42870	22 32 52.14	-24 05 02.8	18.8 N		644
C/2001 O2	2001 08	10.44036	22 32 51.55	-24 05 03.2	19.0 N		644
C/2001 O2	2001 08	24.32583	22 22 00.71	-24 00 53.5	18.8 N	K	608
C/2001 O2	2001 08	24.50095	22 21 52.42	-24 00 47.8	18.8 N	K	608
C/2001 O2	2001 10	10.10028	21 51 26.48	-22 32 46.5	19.6 N		644
C/2001 O2	2001 10	10.11093	21 51 26.25	-22 32 44.4	19.3 N		644
C/2001 O2	2001 10	10.12166	21 51 25.88	-22 32 42.4	19.0 N		644
C/2001 O2	2002 08	26.35242	21 50 17.36	-04 56 17.9	20.8 N		644
C/2001 O2	2002 08	26.37572	21 50 16.67	-04 56 18.8	21.0 N		644
C/2001 O2	2002 08	26.39953	21 50 15.93	-04 56 19.0	19.9 N		644
C/2001 O2	2002 08	27.18020	21 49 52.01	-04 56 27.3	19.8 N		644
C/2001 O2	2002 08	27.24377	21 49 49.98	-04 56 29.2	19.7 N		644
C/2001 O2	2002 08	27.30793	21 49 47.98	-04 56 29.2	20.1 N		644
<b>C/2006 S3 (LONEOS)</b>							
C/2006 S3	2014 08	12.37077	11 51 02.06	-06 43 13.3	14.9 T		15Q62
C/2006 S3	2014 08	12.37170	11 51 02.05	-06 43 12.6	16.6 N		15Q62
<b>C/2008 S3 (Boattini)</b>							
C/2008 S3	2014 08	19.36163	20 45 43.102	+01 30 41.34	21.1 T		F51
C/2008 S3	2014 08	19.38498	20 45 42.362	+01 30 37.45	21.3 T		F51



C/2008 S3	2014 08 19.39672	20 45 41.990	+01 30 35.33	21.0 T	F51
C/2008 S3	2014 08 20.35043	20 45 12.73	+01 27 51.0	19.4 N	6 U69
C/2008 S3	2014 08 20.38186	20 45 11.61	+01 27 45.2	20.6 N	6 U69

**C/2009 F4 (McNaught)**

C/2009 F4	2014 08 29.03305	03 57 07.65	-04 28 50.3	17.9 N	K 160
C/2009 F4	2014 08 29.03549	03 57 07.61	-04 28 50.6	18.0 N	K 160

**C/2010 S1 (LINEAR)**

C/2010 S1	2014 07 05.86532	19 09 13.33	+00 38 25.7	16.0 N	461
C/2010 S1	2014 07 05.86694	19 09 13.22	+00 38 24.8	16.1 N	461
C/2010 S1	2014 07 05.87017	19 09 13.00	+00 38 23.4	16.1 N	461
C/2010 S1	2014 07 05.87340	19 09 12.89	+00 38 22.6	16.1 N	461
C/2010 S1	2014 07 05.87502	19 09 12.80	+00 38 21.9	16.1 N	461
C/2010 S1	2014 07 06.86333	19 08 21.09	+00 32 36.9	16.1 N	461
C/2010 S1	2014 07 06.86495	19 08 21.00	+00 32 36.5	16.1 N	461
C/2010 S1	2014 07 06.86656	19 08 20.91	+00 32 35.6	16.1 N	461
C/2010 S1	2014 07 06.86818	19 08 20.84	+00 32 35.3	16.1 N	461
C/2010 S1	2014 07 06.86979	19 08 20.72	+00 32 34.9		461
C/2010 S1	2014 07 06.87141	19 08 20.63	+00 32 34.0		461
C/2010 S1	2014 07 17.89084	18 58 49.40	-00 35 34.3	14.6 N	B50
C/2010 S1	2014 07 17.89233	18 58 49.27	-00 35 34.6	15.9 N	K B50
C/2010 S1	2014 07 18.98829	18 57 53.49	-00 42 43.5	15.8 N	K B50
C/2010 S1	2014 07 26.42374	18 51 44.81	-01 32 28.1	13.1 T	15Q62
C/2010 S1	2014 07 26.42502	18 51 44.78	-01 32 29.0	15.1 N	15Q62
C/2010 S1	2014 07 31.92228	18 47 25.19	-02 10 27.3	14.8 T	583
C/2010 S1	2014 07 31.92297	18 47 25.10	-02 10 26.9	14.9 T	583
C/2010 S1	2014 07 31.92367	18 47 25.09	-02 10 28.6	14.9 T	583
C/2010 S1	2014 07 31.92436	18 47 25.15	-02 10 28.9	15.3 T	583
C/2010 S1	2014 07 31.92506	18 47 25.11	-02 10 27.2	15.5 T	583
C/2010 S1	2014 07 31.92575	18 47 25.07	-02 10 28.8	15.0 T	583
C/2010 S1	2014 08 02.00138	18 46 35.88	-02 17 59.3	16.3 N	A32
C/2010 S1	2014 08 02.00526	18 46 35.70	-02 18 01.1	16.4 N	A32
C/2010 S1	2014 08 02.00914	18 46 35.52	-02 18 02.8	16.3 N	A32
C/2010 S1	2014 08 02.59229	18 46 09.08	-02 22 07.5	13.9 T	349
C/2010 S1	2014 08 02.59735	18 46 08.84	-02 22 09.4		349
C/2010 S1	2014 08 09.93116	18 40 51.88	-03 13 53.8	15.6 N	J24
C/2010 S1	2014 08 09.93764	18 40 51.67	-03 13 57.9	15.5 N	J24
C/2010 S1	2014 08 09.94413	18 40 51.50	-03 14 01.6	15.5 N	J24
C/2010 S1	2014 08 09.94805	18 40 51.39	-03 14 03.6	15.7 N	J24
C/2010 S1	2014 08 10.96738	18 40 09.47	-03 21 16.6	17.2 N	K 160
C/2010 S1	2014 08 10.97000	18 40 09.36	-03 21 17.8	17.1 N	K 160
C/2010 S1	2014 08 10.97263	18 40 09.23	-03 21 18.9	16.9 N	K 160
C/2010 S1	2014 08 11.91388	18 39 31.17	-03 28 00.8	15.3 N	K C23
C/2010 S1	2014 08 11.91688	18 39 31.12	-03 28 02.4	16.1 N	K C23
C/2010 S1	2014 08 11.91987	18 39 31.04	-03 28 03.5	15.9 N	K C23
C/2010 S1	2014 08 12.87007	18 38 53.28	-03 34 47.5		K 160
C/2010 S1	2014 08 12.90742	18 38 51.88	-03 35 01.8		K 160
C/2010 S1	2014 08 12.91020	18 38 51.73	-03 35 04.9	16.9 N	K 160
C/2010 S1	2014 08 12.91298	18 38 51.68	-03 35 06.0	16.9 N	K 160
C/2010 S1	2014 08 12.91502	18 38 51.60	-03 35 06.3	15.4 N	J24
C/2010 S1	2014 08 12.92499	18 38 51.10	-03 35 10.6	15.6 N	J24
C/2010 S1	2014 08 12.93987	18 38 50.49	-03 35 17.8	15.5 N	J24
C/2010 S1	2014 08 13.01109	18 38 47.67	-03 35 47.5	17.1 N	3 G40

C/2010 S1	2014 08 13.02530	18 38 47.10	-03 35 53.5	16.6 N	3 G40
C/2010 S1	2014 08 13.03556	18 38 46.68	-03 35 57.6	16.7 N	3 G40
C/2010 S1	2014 08 14.89032	18 37 34.80	-03 49 08.5	17.0 N	K 160
C/2010 S1	2014 08 14.89197	18 37 34.73	-03 49 09.3	17.0 N	K 160
C/2010 S1	2014 08 14.89348	18 37 34.68	-03 49 09.4	17.3 N	K 160
C/2010 S1	2014 08 16.86483	18 36 20.56	-04 03 08.9	16.8 N	K 160
C/2010 S1	2014 08 16.86758	18 36 20.46	-04 03 10.1	16.8 N	K 160
C/2010 S1	2014 08 16.86996	18 36 20.42	-04 03 12.1	16.5 N	C23
C/2010 S1	2014 08 16.87033	18 36 20.35	-04 03 11.6	16.8 N	K 160
C/2010 S1	2014 08 16.87544	18 36 20.03	-04 03 15.5	16.3 N	C23
C/2010 S1	2014 08 16.88092	18 36 19.89	-04 03 17.6	15.3 N	C23
C/2010 S1	2014 08 16.90228	18 36 19.02	-04 03 25.6	15.5 N	458
C/2010 S1	2014 08 16.90523	18 36 19.07	-04 03 25.2	15.5 N	458
C/2010 S1	2014 08 17.85955	18 35 44.17	-04 10 12.9	15.8 N	199
C/2010 S1	2014 08 17.86703	18 35 43.82	-04 10 16.0	15.8 N	232
C/2010 S1	2014 08 17.87248	18 35 43.63	-04 10 17.3	15.7 N	199
C/2010 S1	2014 08 17.87619	18 35 43.46	-04 10 19.5	15.7 N	199
C/2010 S1	2014 08 17.87972	18 35 43.32	-04 10 22.5	15.9 N	232
C/2010 S1	2014 08 17.89269	18 35 42.85	-04 10 27.8	15.8 N	232
C/2010 S1	2014 08 17.89297	18 35 42.93	-04 10 26.7	16.5 N	K 160
C/2010 S1	2014 08 17.89506	18 35 42.81	-04 10 27.4	16.5 N	K 160
C/2010 S1	2014 08 17.89712	18 35 42.74	-04 10 28.4	16.5 N	K 160
C/2010 S1	2014 08 17.91822	18 35 42.00	-04 10 36.6	16.2 N	C86
C/2010 S1	2014 08 17.92191	18 35 41.88	-04 10 38.3	16.1 N	C86
C/2010 S1	2014 08 17.92410	18 35 41.79	-04 10 39.6	16.1 N	C86
C/2010 S1	2014 08 17.93089	18 35 41.55	-04 10 42.8	18.4 N	K C47
C/2010 S1	2014 08 17.93237	18 35 41.43	-04 10 42.9	18.3 N	K C47
C/2010 S1	2014 08 17.93384	18 35 41.38	-04 10 44.5	18.5 N	K C47
C/2010 S1	2014 08 17.93679	18 35 41.31	-04 10 45.0	17.4 N	K C47
C/2010 S1	2014 08 17.93901	18 35 41.24	-04 10 46.1	18.1 N	K C47
C/2010 S1	2014 08 18.82387	18 35 09.41	-04 17 02.5	16.8 N	585
C/2010 S1	2014 08 18.82457	18 35 09.38	-04 17 02.7	16.8 N	585
C/2010 S1	2014 08 18.82529	18 35 09.35	-04 17 03.1	16.7 N	585
C/2010 S1	2014 08 18.82601	18 35 09.31	-04 17 03.4	16.8 N	585
C/2010 S1	2014 08 18.82671	18 35 09.26	-04 17 04.3	16.7 N	585
C/2010 S1	2014 08 18.82814	18 35 09.22	-04 17 04.3	16.7 N	585
C/2010 S1	2014 08 18.82884	18 35 09.18	-04 17 04.7	16.8 N	585
C/2010 S1	2014 08 18.82955	18 35 09.16	-04 17 04.8	16.8 N	585
C/2010 S1	2014 08 18.83025	18 35 09.19	-04 17 04.5	16.6 N	585
C/2010 S1	2014 08 18.83097	18 35 09.15	-04 17 05.5	16.6 N	585
C/2010 S1	2014 08 18.83168	18 35 09.11	-04 17 05.9	16.6 N	585
C/2010 S1	2014 08 18.83238	18 35 09.08	-04 17 06.4	16.5 N	585
C/2010 S1	2014 08 18.83310	18 35 09.08	-04 17 06.0	16.5 N	585
C/2010 S1	2014 08 18.83381	18 35 09.05	-04 17 06.7	16.6 N	585
C/2010 S1	2014 08 18.83453	18 35 09.02	-04 17 07.1	16.6 N	585
C/2010 S1	2014 08 18.83833	18 35 08.91	-04 17 08.4	16.6 N	585
C/2010 S1	2014 08 18.83904	18 35 08.87	-04 17 08.6	16.5 N	585
C/2010 S1	2014 08 18.83976	18 35 08.84	-04 17 08.5	16.6 N	585
C/2010 S1	2014 08 18.84046	18 35 08.78	-04 17 09.8	16.6 N	585
C/2010 S1	2014 08 18.88285	18 35 07.27	-04 17 27.0	16.8 N	K 160
C/2010 S1	2014 08 18.88489	18 35 07.23	-04 17 28.1	17.0 N	K 160
C/2010 S1	2014 08 18.88694	18 35 07.18	-04 17 29.1	17.0 N	K 160
C/2010 S1	2014 08 18.89208	18 35 06.95	-04 17 31.4	16.0 N	172



2014 SEPT. 9

M.P.C. 89401

C/2010 S1	2014 08 18.89498	18 35 06.91	-04 17 33.0	16.0 N	I72
C/2010 S1	2014 08 18.89789	18 35 06.58	-04 17 34.5	16.1 N	I72
C/2010 S1	2014 08 19.82754	18 34 33.86	-04 24 09.4	17.6 N	K L22
C/2010 S1	2014 08 19.83481	18 34 33.58	-04 24 13.1	17.4 N	K L22
C/2010 S1	2014 08 19.85208	18 34 32.99	-04 24 18.4	16.1 N	C86
C/2010 S1	2014 08 19.85429	18 34 33.01	-04 24 19.8	16.2 N	C86
C/2010 S1	2014 08 19.86656	18 34 32.47	-04 24 27.5	16.2 N	C86
C/2010 S1	2014 08 20.42584	18 34 13.04	-04 28 21.3	16.3 N	30D90
C/2010 S1	2014 08 20.43046	18 34 12.90	-04 28 23.2	16.3 N	30D90
C/2010 S1	2014 08 20.43508	18 34 12.72	-04 28 25.0	16.3 N	30D90
C/2010 S1	2014 08 20.55157	18 34 08.68	-04 29 13.1	18.8 N	K E07
C/2010 S1	2014 08 20.56038	18 34 08.40	-04 29 18.1	17.8 N	I E07
C/2010 S1	2014 08 21.86098	18 33 23.84	-04 38 29.0	16.5 N	K B50
C/2010 S1	2014 08 21.92477	18 33 21.57	-04 38 55.9	16.9 N	K B50
C/2010 S1	2014 08 22.90681	18 32 49.21	-04 45 51.4	15.9 N	I72
C/2010 S1	2014 08 22.91021	18 32 49.08	-04 45 53.1	16.1 N	I72
C/2010 S1	2014 08 22.91166	18 32 49.00	-04 45 53.4	16.1 N	I72
C/2010 S1	2014 08 24.41152	18 32 00.42	-04 56 23.2	18.1 N	K E07
C/2010 S1	2014 08 24.41813	18 32 00.21	-04 56 26.3	18.0 N	K E07
C/2010 S1	2014 08 24.42695	18 31 59.95	-04 56 29.4	18.1 N	K E07
C/2010 S1	2014 08 24.90761	18 31 44.57	-04 59 52.9	17.7 N	K C47
C/2010 S1	2014 08 24.90982	18 31 44.55	-04 59 53.9	16.9 N	K C47
C/2010 S1	2014 08 24.91204	18 31 44.44	-04 59 56.2	17.8 N	K C47
C/2010 S1	2014 08 24.91462	18 31 44.39	-04 59 56.6	18.3 N	K C47
C/2010 S1	2014 08 24.91720	18 31 44.29	-04 59 57.5	18.2 N	K C47
C/2010 S1	2014 08 24.91978	18 31 44.08	-05 00 00.1	18.4 N	K C47
C/2010 S1	2014 08 25.89433	18 31 13.79	-05 06 47.5	16.4 N	585
C/2010 S1	2014 08 25.89503	18 31 13.73	-05 06 48.4	16.4 N	585
C/2010 S1	2014 08 25.89574	18 31 13.67	-05 06 47.8	16.4 N	585
C/2010 S1	2014 08 25.89645	18 31 13.70	-05 06 48.5	16.2 N	585
C/2010 S1	2014 08 25.89716	18 31 13.62	-05 06 49.7	16.2 N	585
C/2010 S1	2014 08 25.89787	18 31 13.58	-05 06 50.3	16.2 N	585
C/2010 S1	2014 08 25.89858	18 31 13.57	-05 06 50.3	16.4 N	585
C/2010 S1	2014 08 25.90284	18 31 13.50	-05 06 51.9	16.5 N	585
C/2010 S1	2014 08 25.90434	18 31 13.46	-05 06 51.8	16.3 N	585
C/2010 S1	2014 08 27.88192	18 30 13.74	-05 20 38.5	15.8 N	B54
C/2010 S1	2014 08 27.88247	18 30 13.70	-05 20 38.4	15.7 N	B54
C/2010 S1	2014 08 27.88325	18 30 13.68	-05 20 38.9	15.7 N	B54
C/2010 S1	2014 08 27.88635	18 30 13.65	-05 20 39.5	18.9 N	K C47
C/2010 S1	2014 08 27.88783	18 30 13.54	-05 20 40.1	19.3 N	K C47
C/2010 S1	2014 08 27.89004	18 30 13.51	-05 20 41.2	18.7 N	K C47
C/2010 S1	2014 08 27.89225	18 30 13.43	-05 20 42.1	19.1 N	K C47
C/2010 S1	2014 08 27.89446	18 30 13.41	-05 20 43.7	18.7 N	K C47
C/2010 S1	2014 08 27.89631	18 30 13.33	-05 20 43.9	18.6 N	K C47
C/2010 S1	2014 08 28.83463	18 29 45.92	-05 27 17.3	16.2 N	K A77
C/2010 S1	2014 08 28.84030	18 29 45.59	-05 27 19.5	16.2 N	K A77
C/2010 S1	2014 08 28.84627	18 29 45.50	-05 27 20.4	14.1 T	K A77
C/2010 S1	2014 08 28.84816	18 29 45.52	-05 27 19.4	16.8 N	K 160
C/2010 S1	2014 08 28.85325	18 29 45.42	-05 27 21.8	16.7 N	K 160
C/2010 S1	2014 08 28.85718	18 29 45.31	-05 27 23.3	16.6 N	K 160
C/2010 S1	2014 08 28.89050	18 29 44.34	-05 27 38.2	17.4 N	K C47
C/2010 S1	2014 08 28.89417	18 29 44.23	-05 27 39.3	17.3 N	I81
C/2010 S1	2014 08 28.89418	18 29 44.29	-05 27 38.8	17.9 N	K C47

C/2010 S1	2014 08 28.89730	18 29 44.12	-05 27 41.3	16.6 N	K I81
C/2010 S1	2014 08 28.89750	18 29 44.16	-05 27 40.0	18.4 N	K C47
C/2010 S1	2014 08 28.89793	18 29 44.11	-05 27 41.5	17.2 N	I81
C/2010 S1	2014 08 28.90082	18 29 43.98	-05 27 42.6	18.3 N	K C47
C/2010 S1	2014 09 02.85421	18 27 30.10	-06 01 41.5	16.2 N	Z76
C/2010 S1	2014 09 02.85611	18 27 30.07	-06 01 40.6	16.2 N	Z76
C/2010 S1	2014 09 02.85801	18 27 30.00	-06 01 42.4	16.3 N	Z76
C/2010 S1	2014 09 02.90785	18 27 28.73	-06 02 06.1	16.9 N	K 160
C/2010 S1	2014 09 02.91059	18 27 28.66	-06 02 05.9	16.9 N	K 160
C/2010 S1	2014 09 02.91334	18 27 28.59	-06 02 07.3	16.9 N	K 160

## C/2010 U3 (Boattini)

C/2010 U3	2014 08 05.72421	03 26 54.83	+33 22 20.2	18.9 T	349
C/2010 U3	2014 08 05.73596	03 26 54.94	+33 22 21.9		349
C/2010 U3	2014 08 21.12261	03 28 01.90	+34 03 05.9	18.6 N	K A77
C/2010 U3	2014 08 21.12886	03 28 02.09	+34 03 09.0	18.8 N	K A77
C/2010 U3	2014 08 29.02581	03 28 03.50	+34 23 02.9	19.0 N	K I81
C/2010 U3	2014 08 29.02950	03 28 03.42	+34 23 03.5	18.9 N	K I81

## C/2011 J2 (LINEAR)

C/2011 J2	2013 11 07.71882	11 46 26.07	+71 04 36.4	14.8 T	168
C/2011 J2	2013 11 07.72288	11 46 26.71	+71 04 42.3	14.7 T	168
C/2011 J2	2013 11 07.79845	11 46 39.08	+71 06 33.4	14.7 T	168
C/2011 J2	2013 11 07.80227	11 46 39.68	+71 06 39.1	14.7 T	168
C/2011 J2	2013 12 08.85031	15 35 32.99	+83 47 04.2	14.7 T	168
C/2011 J2	2013 12 08.85169	15 35 34.45	+83 47 05.5	14.5 T	168
C/2011 J2	2013 12 08.85274	15 35 35.73	+83 47 06.6	14.6 T	168
C/2011 J2	2013 12 08.85378	15 35 36.89	+83 47 07.2	14.7 T	168
C/2011 J2	2013 12 08.85482	15 35 38.25	+83 47 07.8	14.7 T	168
C/2011 J2	2014 06 05.42631	01 20 21.69	+52 06 33.6		32H06
C/2011 J2	2014 06 05.42792	01 20 21.70	+52 06 34.0		32H06
C/2011 J2	2014 06 05.42953	01 20 21.74	+52 06 34.1	14.4 T	32H06
C/2011 J2	2014 07 28.65169	00 59 24.44	+53 36 10.8	14.1 T	349
C/2011 J2	2014 07 28.65677	00 59 24.06	+53 36 10.6		349
C/2011 J2	2014 08 02.56685	00 53 29.63	+53 33 18.5	14.7 T	D95
C/2011 J2	2014 08 02.57050	00 53 29.32	+53 33 18.1		D95
C/2011 J2	2014 08 02.57195	00 53 29.23	+53 33 18.1		D95
C/2011 J2	2014 08 07.07266	00 47 26.59	+53 26 32.0	15.6 N	I72
C/2011 J2	2014 08 07.07417	00 47 26.39	+53 26 30.8	15.5 N	I72
C/2011 J2	2014 08 07.07567	00 47 26.24	+53 26 30.7	15.6 N	I72
C/2011 J2	2014 08 08.07205	00 46 00.96	+53 24 26.7	15.1 N	I72
C/2011 J2	2014 08 08.07353	00 46 00.96	+53 24 26.3	15.0 N	I72
C/2011 J2	2014 08 08.07500	00 46 00.94	+53 24 26.5	15.0 N	I72
C/2011 J2	2014 08 08.11898	00 45 57.18	+53 24 17.7	15.9 N	K B51
C/2011 J2	2014 08 08.12433	00 45 56.73	+53 24 16.9	16.0 N	K B51
C/2011 J2	2014 08 08.12909	00 45 56.31	+53 24 16.3	16.1 N	K B51
C/2011 J2	2014 08 10.07204	00 43 05.80	+53 19 27.3	15.4 N	I72
C/2011 J2	2014 08 10.07351	00 43 05.73	+53 19 25.7	15.5 N	I72
C/2011 J2	2014 08 10.07499	00 43 05.61	+53 19 26.0	15.5 N	I72
C/2011 J2	2014 08 11.04471	00 41 38.29	+53 16 40.8	16.1 N	K Z81
C/2011 J2	2014 08 11.07186	00 41 35.75	+53 16 35.5	15.4 N	I72
C/2011 J2	2014 08 11.07332	00 41 35.66	+53 16 34.9	15.5 N	I72
C/2011 J2	2014 08 11.07478	00 41 35.54	+53 16 34.5	15.5 N	I72
C/2011 J2	2014 08 11.13462	00 41 30.00	+53 16 24.7	16.0 N	K Z81



C/2011 J2	2014 08 11.18361	00 41 25.47	+53 16 15.8	15.8 N	K Z81
C/2011 J2	2014 08 12.03770	00 40 07.31	+53 13 35.6	16.3 N	K Z81
C/2011 J2	2014 08 12.07302	00 40 04.00	+53 13 28.9	16.1 N	K Z81
C/2011 J2	2014 08 12.10260	00 40 01.22	+53 13 23.7	15.9 N	K Z81
C/2011 J2	2014 08 12.13828	00 39 57.90	+53 13 16.5	15.8 N	K Z81
C/2011 J2	2014 08 12.17907	00 39 54.16	+53 13 08.9	15.4 N	I72
C/2011 J2	2014 08 12.18208	00 39 53.81	+53 13 07.4	15.5 N	I72
C/2011 J2	2014 08 12.18509	00 39 53.53	+53 13 06.7	15.5 N	I72
C/2011 J2	2014 08 12.91201	00 38 46.07	+53 10 39.2	15.8 N	C23
C/2011 J2	2014 08 12.91634	00 38 45.60	+53 10 37.3	15.7 N	C23
C/2011 J2	2014 08 12.91923	00 38 45.31	+53 10 36.4	16.0 N	C23
C/2011 J2	2014 08 13.09133	00 38 29.01	+53 10 02.4	15.2 T	K90
C/2011 J2	2014 08 13.09778	00 38 28.40	+53 10 01.0	15.2 T	K90
C/2011 J2	2014 08 13.09990	00 38 28.20	+53 10 00.6	15.3 T	K90
C/2011 J2	2014 08 13.19042	00 38 19.81	+53 09 41.6	15.3 N	J24
C/2011 J2	2014 08 13.19418	00 38 19.52	+53 09 42.0	15.2 N	J24
C/2011 J2	2014 08 13.19984	00 38 18.91	+53 09 40.1	15.3 N	J24
C/2011 J2	2014 08 14.00146	00 37 03.09	+53 06 42.9	16.0 N	K B51
C/2011 J2	2014 08 14.00436	00 37 02.84	+53 06 42.1	16.1 N	K B51
C/2011 J2	2014 08 14.01394	00 37 01.86	+53 06 40.1	16.4 N	K B51
C/2011 J2	2014 08 14.18050	00 36 45.83	+53 06 01.6	15.4 N	I72
C/2011 J2	2014 08 14.18197	00 36 45.71	+53 06 01.3	15.4 N	I72
C/2011 J2	2014 08 14.18491	00 36 45.46	+53 06 01.5	15.4 N	I72
C/2011 J2	2014 08 14.93065	00 35 34.05	+53 03 05.1	15.3 N	I99
C/2011 J2	2014 08 14.93215	00 35 34.02	+53 03 04.9	15.3 N	I99
C/2011 J2	2014 08 14.93365	00 35 33.78	+53 03 04.3	15.3 N	I99
C/2011 J2	2014 08 15.05104	00 35 22.32	+53 02 37.3	15.4 N	232
C/2011 J2	2014 08 15.05442	00 35 22.00	+53 02 36.5	15.4 N	232
C/2011 J2	2014 08 16.00314	00 33 49.67	+52 58 36.7	16.5 N	J01
C/2011 J2	2014 08 16.01365	00 33 48.53	+52 58 34.5	15.9 N	K Z81
C/2011 J2	2014 08 16.02531	00 33 47.43	+52 58 30.6	16.3 N	J01
C/2011 J2	2014 08 16.03642	00 33 46.33	+52 58 27.9	16.2 N	J01
C/2011 J2	2014 08 16.05835	00 33 44.07	+52 58 23.2	15.9 N	I Z81
C/2011 J2	2014 08 16.07533	00 33 42.39	+52 58 18.4	16.0 N	K Z81
C/2011 J2	2014 08 16.92863	00 32 18.32	+52 54 27.4	16.6 N	K 160
C/2011 J2	2014 08 16.93067	00 32 18.04	+52 54 27.0	16.6 N	K 160
C/2011 J2	2014 08 16.93299	00 32 17.81	+52 54 26.1	16.6 N	K 160
C/2011 J2	2014 08 16.94678	00 32 16.42	+52 54 22.5	17.3 N	C47
C/2011 J2	2014 08 16.94937	00 32 16.21	+52 54 21.9	17.2 N	C47
C/2011 J2	2014 08 16.95195	00 32 15.91	+52 54 21.3	17.0 N	C47
C/2011 J2	2014 08 16.95453	00 32 15.71	+52 54 20.7	17.2 N	C47
C/2011 J2	2014 08 16.95711	00 32 15.40	+52 54 19.9	16.6 N	C47
C/2011 J2	2014 08 16.95932	00 32 15.19	+52 54 19.3	16.7 N	C47
C/2011 J2	2014 08 17.01772	00 32 09.42	+52 54 03.5	15.3 N	C90
C/2011 J2	2014 08 17.02175	00 32 09.04	+52 54 02.0	14.9 N	C90
C/2011 J2	2014 08 17.03956	00 32 07.21	+52 53 57.4	15.3 N	C90
C/2011 J2	2014 08 17.04483	00 32 06.72	+52 53 56.0	15.2 N	I99
C/2011 J2	2014 08 17.04770	00 32 06.42	+52 53 55.4	15.3 N	I99
C/2011 J2	2014 08 17.05056	00 32 06.17	+52 53 54.3	15.3 N	I99
C/2011 J2	2014 08 17.06611	00 32 04.56	+52 53 50.8	15.3 N	Z76
C/2011 J2	2014 08 17.06881	00 32 04.29	+52 53 49.6	15.2 N	Z76
C/2011 J2	2014 08 17.07330	00 32 03.86	+52 53 48.0	15.3 N	Z76
C/2011 J2	2014 08 17.86822	00 30 44.60	+52 49 59.6	15.4 N	C86

C/2011 J2	2014 08 17.86970	00 30 44.43	+52 49 59.5	15.5 N	C86
C/2011 J2	2014 08 17.88116	00 30 43.16	+52 49 55.5	15.6 N	C86
C/2011 J2	2014 08 17.90669	00 30 40.56	+52 49 48.0	16.8 N	C47
C/2011 J2	2014 08 17.90697	00 30 40.63	+52 49 48.3	15.4 N	K14
C/2011 J2	2014 08 17.90891	00 30 40.32	+52 49 47.4	17.2 N	C47
C/2011 J2	2014 08 17.91112	00 30 40.13	+52 49 46.7	17.4 N	C47
C/2011 J2	2014 08 17.91333	00 30 39.86	+52 49 46.3	17.4 N	C47
C/2011 J2	2014 08 17.91591	00 30 39.60	+52 49 45.2	16.8 N	C47
C/2011 J2	2014 08 17.91850	00 30 39.35	+52 49 44.9	16.2 N	C47
C/2011 J2	2014 08 17.91880	00 30 39.35	+52 49 44.7	16.0 N	K 157
C/2011 J2	2014 08 17.92149	00 30 39.09	+52 49 43.9	16.0 N	K 157
C/2011 J2	2014 08 17.92363	00 30 38.87	+52 49 43.2	15.9 N	K 157
C/2011 J2	2014 08 17.92580	00 30 38.64	+52 49 42.8	16.1 N	K 157
C/2011 J2	2014 08 17.92720	00 30 38.56	+52 49 42.5	15.2 N	K14
C/2011 J2	2014 08 17.95043	00 30 36.25	+52 49 35.7	15.4 N	K14
C/2011 J2	2014 08 18.18186	00 30 12.64	+52 48 27.5	15.6 N	I72
C/2011 J2	2014 08 18.18333	00 30 12.50	+52 48 26.5	15.6 N	I72
C/2011 J2	2014 08 18.18480	00 30 12.38	+52 48 26.1	15.6 N	I72
C/2011 J2	2014 08 18.89618	00 29 00.46	+52 44 48.2	15.3 N	A98
C/2011 J2	2014 08 18.89660	00 29 00.40	+52 44 47.8	15.3 N	A98
C/2011 J2	2014 08 18.89825	00 29 00.29	+52 44 47.2	15.5 N	A98
C/2011 J2	2014 08 18.89909	00 29 00.20	+52 44 47.9	15.5 N	A98
C/2011 J2	2014 08 18.89991	00 29 00.14	+52 44 46.7	15.5 N	A98
C/2011 J2	2014 08 18.90156	00 28 59.93	+52 44 46.0	15.4 N	A98
C/2011 J2	2014 08 18.90240	00 28 59.92	+52 44 45.8	15.6 N	A98
C/2011 J2	2014 08 18.90322	00 28 59.78	+52 44 46.0	15.5 N	A98
C/2011 J2	2014 08 18.90405	00 28 59.59	+52 44 45.4	15.4 N	A98
C/2011 J2	2014 08 19.05835	00 28 43.90	+52 43 58.0	16.1 N	K Z81
C/2011 J2	2014 08 19.09398	00 28 40.30	+52 43 46.6		K Z81
C/2011 J2	2014 08 19.48938	00 27 59.95	+52 41 38.8	14.4 T	D95
C/2011 J2	2014 08 19.49157	00 27 59.73	+52 41 37.9		D95
C/2011 J2	2014 08 19.49376	00 27 59.52	+52 41 37.5		D95
C/2011 J2	2014 08 19.60032	00 27 48.57	+52 41 03.8		900
C/2011 J2	2014 08 19.60747	00 27 47.83	+52 41 01.4	14.4 T	900
C/2011 J2	2014 08 19.78523	00 27 29.59	+52 40 01.6	15.8 N	585
C/2011 J2	2014 08 19.78594	00 27 29.51	+52 40 01.1	15.9 N	585
C/2011 J2	2014 08 19.78678	00 27 29.44	+52 40 00.9	15.8 N	585
C/2011 J2	2014 08 19.78749	00 27 29.36	+52 40 00.6	15.8 N	585
C/2011 J2	2014 08 19.78819	00 27 29.28	+52 40 00.4	15.9 N	585
C/2011 J2	2014 08 19.78890	00 27 29.20	+52 40 00.3	15.8 N	585
C/2011 J2	2014 08 19.78962	00 27 29.13	+52 40 00.0	15.9 N	585
C/2011 J2	2014 08 19.79032	00 27 29.04	+52 39 59.8	15.9 N	585
C/2011 J2	2014 08 19.79103	00 27 28.99	+52 39 59.6	15.9 N	585
C/2011 J2	2014 08 19.79174	00 27 28.91	+52 39 59.3	15.8 N	585
C/2011 J2	2014 08 19.79245	00 27 28.84	+52 39 59.3	15.8 N	585
C/2011 J2	2014 08 19.79316	00 27 28.75	+52 39 58.8	15.8 N	585
C/2011 J2	2014 08 19.79387	00 27 28.71	+52 39 58.0	15.9 N	585
C/2011 J2	2014 08 19.79459	00 27 28.63	+52 39 58.5	15.9 N	585
C/2011 J2	2014 08 19.88334	00 27 19.68	+52 39 30.4	15.2 N	C86
C/2011 J2	2014 08 19.88632	00 27 19.24	+52 39 31.5	15.4 N	C86
C/2011 J2	2014 08 19.88780	00 27 19.07	+52 39 31.2	15.7 N	C86
C/2011 J2	2014 08 19.92533	00 27 15.16	+52 39 15.4	16.7 N	K 970
C/2011 J2	2014 08 19.93925	00 27 13.73	+52 39 10.6	16.8 N	K 970



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C/2011 J2	2014 08 20.01465	00 27 05.66	+52 38 45.5	17.0 N	C23
C/2011 J2	2014 08 20.01898	00 27 05.39	+52 38 44.3	17.8 N	C23
C/2011 J2	2014 08 20.02331	00 27 05.05	+52 38 43.7	16.5 N	C23
C/2011 J2	2014 08 20.08640	00 26 58.46	+52 38 21.6	16.5 N	238
C/2011 J2	2014 08 20.09025	00 26 58.05	+52 38 21.3	17.0 N	238
C/2011 J2	2014 08 20.09189	00 26 57.89	+52 38 20.8	17.7 N	238
C/2011 J2	2014 08 20.09516	00 26 57.57	+52 38 19.1	17.3 N	238
C/2011 J2	2014 08 20.17002	00 26 49.75	+52 37 55.4	15.5 N	I72
C/2011 J2	2014 08 20.17150	00 26 49.59	+52 37 54.3	15.5 N	I72
C/2011 J2	2014 08 20.17297	00 26 49.44	+52 37 53.4	15.5 N	I72
C/2011 J2	2014 08 20.88068	00 25 36.25	+52 33 48.8	15.9 N	B96
C/2011 J2	2014 08 20.88240	00 25 36.08	+52 33 47.9	15.9 N	B96
C/2011 J2	2014 08 20.88660	00 25 35.69	+52 33 47.3	15.9 N	B96
C/2011 J2	2014 08 20.88831	00 25 35.46	+52 33 45.7	15.9 N	B96
C/2011 J2	2014 08 20.89002	00 25 35.34	+52 33 45.8	15.9 N	B96
C/2011 J2	2014 08 20.89172	00 25 35.11	+52 33 45.3	15.9 N	B96
C/2011 J2	2014 08 20.89343	00 25 34.99	+52 33 44.6	15.9 N	B96
C/2011 J2	2014 08 21.16997	00 25 05.99	+52 32 08.0	15.5 N	I72
C/2011 J2	2014 08 21.17291	00 25 05.71	+52 32 07.4	15.5 N	I72
C/2011 J2	2014 08 21.17439	00 25 05.55	+52 32 06.3	15.5 N	I72
C/2011 J2	2014 08 21.88934	00 23 50.86	+52 27 45.4	16.3 N	C47
C/2011 J2	2014 08 21.89155	00 23 50.63	+52 27 44.4	16.7 N	C47
C/2011 J2	2014 08 21.89413	00 23 50.37	+52 27 43.5	16.9 N	C47
C/2011 J2	2014 08 21.89745	00 23 49.99	+52 27 42.3	17.0 N	C47
C/2011 J2	2014 08 21.89930	00 23 49.78	+52 27 41.7	16.6 N	C47
C/2011 J2	2014 08 21.90114	00 23 49.59	+52 27 40.8	16.4 N	C47
C/2011 J2	2014 08 22.41487	00 22 55.30	+52 24 28.8	15.6 N	H45
C/2011 J2	2014 08 22.41712	00 22 55.05	+52 24 27.9	15.6 N	H45
C/2011 J2	2014 08 22.41902	00 22 54.85	+52 24 27.2	15.5 N	H45
C/2011 J2	2014 08 22.42069	00 22 54.66	+52 24 26.5	15.5 N	H45
C/2011 J2	2014 08 22.42198	00 22 54.54	+52 24 26.2	15.6 N	H45
C/2011 J2	2014 08 22.42392	00 22 54.32	+52 24 25.2	15.5 N	H45
C/2011 J2	2014 08 22.50139	00 22 46.45	+52 23 55.1		K 367
C/2011 J2	2014 08 22.50260	00 22 46.32	+52 23 54.8		K 367
C/2011 J2	2014 08 22.50503	00 22 46.04	+52 23 53.9	14.9 T	K 367
C/2011 J2	2014 08 22.93570	00 22 00.42	+52 21 06.8	15.6 N	I72
C/2011 J2	2014 08 22.93861	00 22 00.16	+52 21 05.8	15.6 N	I72
C/2011 J2	2014 08 22.94152	00 21 59.84	+52 21 04.7	15.6 N	I72
C/2011 J2	2014 08 22.94666	00 21 59.28	+52 21 02.9	16.1 N	K40
C/2011 J2	2014 08 22.96475	00 21 57.60	+52 20 56.7	16.4 N	K40
C/2011 J2	2014 08 22.97138	00 21 56.23	+52 20 53.5	15.4 N	A98
C/2011 J2	2014 08 22.97220	00 21 56.30	+52 20 53.2	15.7 N	A98
C/2011 J2	2014 08 22.97469	00 21 56.14	+52 20 52.6	15.6 N	A98
C/2011 J2	2014 08 22.97634	00 21 56.00	+52 20 52.7	15.6 N	A98
C/2011 J2	2014 08 22.97716	00 21 56.01	+52 20 53.1	15.4 N	A98
C/2011 J2	2014 08 22.97840	00 21 55.89	+52 20 52.6	15.3 N	A98
C/2011 J2	2014 08 23.00817	00 21 52.70	+52 20 38.8	15.6 N	I99
C/2011 J2	2014 08 23.01347	00 21 52.14	+52 20 37.2	15.6 N	I99
C/2011 J2	2014 08 23.01613	00 21 51.84	+52 20 36.0	15.5 N	I99
C/2011 J2	2014 08 24.16303	00 19 49.31	+52 12 51.9	15.6 N	I72
C/2011 J2	2014 08 24.16451	00 19 49.15	+52 12 51.0	15.6 N	I72
C/2011 J2	2014 08 24.16747	00 19 48.87	+52 12 50.2	15.6 N	I72
C/2011 J2	2014 08 24.88044	00 18 32.40	+52 07 47.4	15.4 N	B59

C/2011 J2	2014 08 24.88339	00 18 32.16	+52 07 45.7	15.4 N	B59
C/2011 J2	2014 08 24.88633	00 18 31.83	+52 07 44.3	15.4 N	B59
C/2011 J2	2014 08 24.88927	00 18 31.48	+52 07 42.9	15.3 N	B59
C/2011 J2	2014 08 24.89922	00 18 30.47	+52 07 38.3	15.4 N	I57
C/2011 J2	2014 08 24.90039	00 18 30.32	+52 07 37.9	15.6 N	I57
C/2011 J2	2014 08 24.90276	00 18 30.08	+52 07 36.7	15.4 N	I57
C/2011 J2	2014 08 24.90472	00 18 29.77	+52 07 35.7	16.4 N	C47
C/2011 J2	2014 08 24.92269	00 18 27.85	+52 07 28.3	16.9 N	C47
C/2011 J2	2014 08 24.92270	00 18 27.91	+52 07 28.2	15.4 N	Z76
C/2011 J2	2014 08 24.92381	00 18 27.79	+52 07 27.8	15.4 N	Z76
C/2011 J2	2014 08 24.92480	00 18 27.69	+52 07 27.5	15.4 N	Z76
C/2011 J2	2014 08 24.92564	00 18 27.54	+52 07 27.1	17.1 N	C47
C/2011 J2	2014 08 24.92859	00 18 27.24	+52 07 25.5	17.5 N	C47
C/2011 J2	2014 08 24.93191	00 18 26.87	+52 07 24.6	17.4 N	C47
C/2011 J2	2014 08 24.93523	00 18 26.49	+52 07 23.0	17.3 N	C47
C/2011 J2	2014 08 24.94521	00 18 25.52	+52 07 20.4	15.4 N	J38
C/2011 J2	2014 08 24.95091	00 18 24.87	+52 07 17.2	15.4 N	J38
C/2011 J2	2014 08 24.95472	00 18 24.47	+52 07 14.8	15.2 N	J38
C/2011 J2	2014 08 25.02387	00 18 16.83	+52 06 44.8	16.4 N	K 160
C/2011 J2	2014 08 25.02660	00 18 16.60	+52 06 44.1	16.3 N	K 160
C/2011 J2	2014 08 25.02933	00 18 16.23	+52 06 41.7	16.2 N	K 160
C/2011 J2	2014 08 25.07881	00 18 10.95	+52 06 21.3	16.3 N	J01
C/2011 J2	2014 08 25.08182	00 18 10.63	+52 06 20.7	16.4 N	J01
C/2011 J2	2014 08 25.09988	00 18 08.75	+52 06 12.7	16.4 N	J01
C/2011 J2	2014 08 25.16162	00 18 01.91	+52 05 45.5	15.4 N	I72
C/2011 J2	2014 08 25.16309	00 18 01.71	+52 05 44.4	15.4 N	I72
C/2011 J2	2014 08 25.16750	00 18 01.20	+52 05 42.6	15.4 N	I72
C/2011 J2	2014 08 25.87858	00 16 44.50	+52 00 24.9	15.5 N	I99
C/2011 J2	2014 08 25.87984	00 16 44.42	+52 00 24.6	15.6 N	I99
C/2011 J2	2014 08 25.88738	00 16 43.54	+52 00 22.2	15.7 N	I99
C/2011 J2	2014 08 26.16160	00 16 13.46	+51 58 16.9	15.7 N	I72
C/2011 J2	2014 08 26.16454	00 16 13.18	+51 58 16.1	15.7 N	I72
C/2011 J2	2014 08 26.16748	00 16 12.84	+51 58 14.5	15.7 N	I72
C/2011 J2	2014 08 26.88747	00 14 54.63	+51 52 37.8	16.4 N	C79
C/2011 J2	2014 08 26.88823	00 14 54.51	+51 52 37.7	16.4 N	C79
C/2011 J2	2014 08 26.88899	00 14 54.44	+51 52 36.9	16.0 N	C79
C/2011 J2	2014 08 26.92078	00 14 50.94	+51 52 21.8	16.4 N	I81
C/2011 J2	2014 08 26.92164	00 14 50.84	+51 52 21.5	16.3 N	I81
C/2011 J2	2014 08 26.92383	00 14 50.61	+51 52 20.5	16.1 N	I81
C/2011 J2	2014 08 26.94267	00 14 48.61	+51 52 12.0	15.5 N	I213
C/2011 J2	2014 08 26.94897	00 14 47.88	+51 52 10.2	15.5 N	I213
C/2011 J2	2014 08 26.95527	00 14 47.20	+51 52 06.3	15.5 N	I213
C/2011 J2	2014 08 27.01887	00 14 40.08	+51 51 36.0	16.6 N	K L22
C/2011 J2	2014 08 27.02101	00 14 39.83	+51 51 35.3	17.0 N	K L22
C/2011 J2	2014 08 27.02317	00 14 39.56	+51 51 33.6	16.8 N	K L22
C/2011 J2	2014 08 27.02531	00 14 39.24	+51 51 33.4	16.6 N	K L22
C/2011 J2	2014 08 27.02746	00 14 39.16	+51 51 32.5	17.0 N	K L22
C/2011 J2	2014 08 27.02960	00 14 38.92	+51 51 31.1	17.1 N	K L22
C/2011 J2	2014 08 27.03034	00 14 38.86	+51 51 30.5	15.5 N	I72
C/2011 J2	2014 08 27.03175	00 14 38.61	+51 51 29.8	16.9 N	K L22
C/2011 J2	2014 08 27.03326	00 14 38.61	+51 51 28.2	15.5 N	I72
C/2011 J2	2014 08 27.03390	00 14 38.44	+51 51 29.2	16.3 N	K L22
C/2011 J2	2014 08 27.03605	00 14 38.17	+51 51 27.7	17.0 N	K L22



C/2011 J2	2014 08 27.03619	00 14 38.30	+51 51 28.3	15.5 N	I72	C/2011 J2	2014 08 28.84269	00 11 20.00	+51 36 30.2	16.1 N	A12
C/2011 J2	2014 08 27.03820	00 14 37.95	+51 51 26.7	17.1 N	K L22	C/2011 J2	2014 08 28.84701	00 11 19.54	+51 36 28.4	16.3 N	A12
C/2011 J2	2014 08 27.81463	00 13 13.12	+51 45 08.7	17.1 N	C47	C/2011 J2	2014 08 28.85074	00 11 19.09	+51 36 26.2	16.2 N	A12
C/2011 J2	2014 08 27.81648	00 13 12.88	+51 45 08.1	16.7 N	C47	C/2011 J2	2014 08 28.85448	00 11 18.67	+51 36 24.2	16.3 N	A12
C/2011 J2	2014 08 27.81869	00 13 12.68	+51 45 07.0	17.2 N	C47	C/2011 J2	2014 08 28.85821	00 11 18.28	+51 36 22.4	16.4 N	A12
C/2011 J2	2014 08 27.82090	00 13 12.42	+51 45 05.9	17.2 N	C47	C/2011 J2	2014 08 28.86326	00 11 17.58	+51 36 20.0	16.9 N	L22
C/2011 J2	2014 08 27.82312	00 13 12.16	+51 45 04.7	16.8 N	C47	C/2011 J2	2014 08 28.86428	00 11 17.51	+51 36 20.1	15.9 N	K A77
C/2011 J2	2014 08 27.82533	00 13 11.93	+51 45 04.0	16.1 N	C47	C/2011 J2	2014 08 28.86611	00 11 17.25	+51 36 18.2	15.4 N	L22
C/2011 J2	2014 08 27.89897	00 13 03.88	+51 44 27.7	15.2 N	I99	C/2011 J2	2014 08 28.86896	00 11 16.89	+51 36 17.1	17.0 N	L22
C/2011 J2	2014 08 27.90559	00 13 03.12	+51 44 24.7	15.4 N	I99	C/2011 J2	2014 08 28.86910	00 11 16.85	+51 36 19.0	14.9 T	K A77
C/2011 J2	2014 08 27.91002	00 13 02.63	+51 44 22.5	15.3 N	I99	C/2011 J2	2014 08 28.87179	00 11 16.63	+51 36 16.2	16.7 N	L22
C/2011 J2	2014 08 27.92505	00 13 00.95	+51 44 15.4	15.3 N	C35	C/2011 J2	2014 08 28.87369	00 11 16.53	+51 36 14.5	16.2 N	A12
C/2011 J2	2014 08 27.93003	00 13 00.43	+51 44 12.8	16.2 N	A12	C/2011 J2	2014 08 28.87743	00 11 16.12	+51 36 12.5	16.3 N	A12
C/2011 J2	2014 08 27.93003	00 13 00.37	+51 44 12.3	15.3 N	C35	C/2011 J2	2014 08 28.87749	00 11 15.94	+51 36 12.7	17.1 N	L22
C/2011 J2	2014 08 27.93286	00 13 00.14	+51 44 11.4	16.2 N	A12	C/2011 J2	2014 08 28.88028	00 11 15.75	+51 36 11.2	16.1 N	K 160
C/2011 J2	2014 08 27.93501	00 12 59.87	+51 44 11.1	15.3 N	C35	C/2011 J2	2014 08 28.88032	00 11 15.68	+51 36 10.9	16.8 N	L22
C/2011 J2	2014 08 27.93631	00 12 59.74	+51 44 09.8	16.2 N	A12	C/2011 J2	2014 08 28.88153	00 11 15.61	+51 36 10.5	16.1 N	K 160
C/2011 J2	2014 08 27.93800	00 12 59.55	+51 44 09.0	16.2 N	A12	C/2011 J2	2014 08 28.88277	00 11 15.47	+51 36 09.6	16.0 N	K 160
C/2011 J2	2014 08 27.93832	00 12 59.52	+51 44 09.3	15.3 N	C35	C/2011 J2	2014 08 28.94112	00 11 09.01	+51 35 39.6	16.2 N	J93
C/2011 J2	2014 08 27.94114	00 12 59.19	+51 44 07.3	16.2 N	A12	C/2011 J2	2014 08 28.94399	00 11 08.69	+51 35 38.0	16.1 N	J93
C/2011 J2	2014 08 27.94278	00 12 59.03	+51 44 06.5	16.2 N	A12	C/2011 J2	2014 08 28.94685	00 11 08.35	+51 35 36.5	16.1 N	J93
C/2011 J2	2014 08 27.94443	00 12 58.84	+51 44 05.7	16.3 N	A12	C/2011 J2	2014 08 29.27777	00 10 31.70	+51 32 44.8	16.1 N	850
C/2011 J2	2014 08 27.94608	00 12 58.66	+51 44 05.0	16.2 N	A12	C/2011 J2	2014 08 29.29270	00 10 30.05	+51 32 37.1	16.1 N	850
C/2011 J2	2014 08 27.94773	00 12 58.47	+51 44 04.1	16.2 N	A12	C/2011 J2	2014 08 29.30766	00 10 28.38	+51 32 29.2	16.1 N	850
C/2011 J2	2014 08 27.94938	00 12 58.30	+51 44 03.2	16.2 N	A12	C/2011 J2	2014 08 29.32258	00 10 26.68	+51 32 21.3	16.0 N	850
C/2011 J2	2014 08 27.95103	00 12 58.12	+51 44 02.5	16.2 N	A12	C/2011 J2	2014 08 29.33753	00 10 25.02	+51 32 13.8	16.1 N	850
C/2011 J2	2014 08 27.95268	00 12 57.93	+51 44 01.6	16.2 N	A12	C/2011 J2	2014 08 29.35247	00 10 23.31	+51 32 05.5	16.1 N	850
C/2011 J2	2014 08 27.95433	00 12 57.74	+51 44 00.8	16.2 N	A12	C/2011 J2	2014 08 29.36742	00 10 21.67	+51 31 57.7	16.1 N	850
C/2011 J2	2014 08 27.95598	00 12 57.55	+51 43 59.9	16.2 N	A12	C/2011 J2	2014 08 29.84641	00 09 28.84	+51 27 41.6	17.0 N	K L22
C/2011 J2	2014 08 27.95774	00 12 57.38	+51 43 59.2	16.2 N	A12	C/2011 J2	2014 08 29.84786	00 09 28.64	+51 27 40.3	17.0 N	K L22
C/2011 J2	2014 08 27.95939	00 12 57.20	+51 43 58.4	16.2 N	A12	C/2011 J2	2014 08 29.84932	00 09 28.54	+51 27 39.7	17.1 N	K L22
C/2011 J2	2014 08 27.96104	00 12 57.01	+51 43 57.5	16.2 N	A12	C/2011 J2	2014 08 29.85078	00 09 28.33	+51 27 38.8	17.0 N	K L22
C/2011 J2	2014 08 27.96269	00 12 56.82	+51 43 56.7	16.2 N	A12	C/2011 J2	2014 08 29.85224	00 09 28.16	+51 27 38.4	16.4 N	K L22
C/2011 J2	2014 08 27.96434	00 12 56.62	+51 43 55.9	16.3 N	A12	C/2011 J2	2014 08 29.85369	00 09 28.00	+51 27 37.5	17.0 N	K L22
C/2011 J2	2014 08 28.03092	00 12 49.22	+51 43 23.1	15.4 N	I72	C/2011 J2	2014 08 29.85514	00 09 27.85	+51 27 36.6	16.9 N	K L22
C/2011 J2	2014 08 28.03388	00 12 48.96	+51 43 21.8	15.4 N	I72	C/2011 J2	2014 08 29.85660	00 09 27.72	+51 27 35.9	16.5 N	K L22
C/2011 J2	2014 08 28.03531	00 12 48.65	+51 43 22.5	15.4 N	B54	C/2011 J2	2014 08 29.87874	00 09 25.24	+51 27 23.9	15.9 N	C23
C/2011 J2	2014 08 28.03580	00 12 48.64	+51 43 21.2	15.5 N	B54	C/2011 J2	2014 08 29.88203	00 09 24.86	+51 27 22.0	15.7 N	C23
C/2011 J2	2014 08 28.03596	00 12 48.69	+51 43 20.5	15.5 N	B54	C/2011 J2	2014 08 29.88422	00 09 24.65	+51 27 21.3	15.7 N	C23
C/2011 J2	2014 08 28.03683	00 12 48.55	+51 43 19.6	15.4 N	I72	C/2011 J2	2014 08 29.90554	00 09 22.28	+51 27 09.9	15.4 N	K 434
C/2011 J2	2014 08 28.82163	00 11 22.23	+51 36 40.3	17.3 N	C47	C/2011 J2	2014 08 29.91175	00 09 21.60	+51 27 06.9	15.1 N	K 434
C/2011 J2	2014 08 28.82348	00 11 22.00	+51 36 39.9	16.4 N	C47	C/2011 J2	2014 08 29.91795	00 09 20.89	+51 27 03.3	15.3 N	K 434
C/2011 J2	2014 08 28.82479	00 11 21.94	+51 36 39.5	16.1 N	A12	C/2011 J2	2014 08 30.03041	00 09 08.37	+51 26 03.1	15.7 N	I72
C/2011 J2	2014 08 28.82569	00 11 21.73	+51 36 38.7	17.4 N	C47	C/2011 J2	2014 08 30.03336	00 09 08.04	+51 26 01.5	15.7 N	I72
C/2011 J2	2014 08 28.82644	00 11 21.75	+51 36 38.5	16.2 N	A12	C/2011 J2	2014 08 30.03631	00 09 07.71	+51 25 59.9	15.7 N	I72
C/2011 J2	2014 08 28.82790	00 11 21.53	+51 36 37.6	16.6 N	C47	C/2011 J2	2014 08 30.56495	00 08 09.05	+51 21 09.7	15.7 N	400
C/2011 J2	2014 08 28.82809	00 11 21.58	+51 36 37.6	16.3 N	A12	C/2011 J2	2014 08 30.57846	00 08 07.56	+51 21 02.1	15.7 N	400
C/2011 J2	2014 08 28.82974	00 11 21.41	+51 36 36.7	16.3 N	A12	C/2011 J2	2014 08 30.59872	00 08 05.28	+51 20 51.0	15.8 N	400
C/2011 J2	2014 08 28.83012	00 11 21.29	+51 36 36.3	17.1 N	C47	C/2011 J2	2014 08 30.88139	00 07 33.98	+51 18 12.9	16.8 N	A12
C/2011 J2	2014 08 28.83139	00 11 21.21	+51 36 35.9	16.3 N	A12	C/2011 J2	2014 08 30.88468	00 07 33.62	+51 18 11.1	16.6 N	A12
C/2011 J2	2014 08 28.83233	00 11 20.99	+51 36 35.9	17.4 N	C47	C/2011 J2	2014 08 30.88876	00 07 33.17	+51 18 09.0	16.7 N	A12
C/2011 J2	2014 08 28.83445	00 11 20.85	+51 36 34.3	16.3 N	A12	C/2011 J2	2014 08 30.89354	00 07 32.61	+51 18 06.2	16.7 N	A12
C/2011 J2	2014 08 28.83839	00 11 20.47	+51 36 32.5	16.2 N	A12	C/2011 J2	2014 08 30.89727	00 07 32.22	+51 18 04.3	16.8 N	A12



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C/2011 J2	2014 08 30.90101	00 07 31.78	+51 18 02.2	16.8 N	A12
C/2011 J2	2014 08 30.90458	00 07 31.38	+51 18 00.1	16.6 N	A12
C/2011 J2	2014 08 30.90740	00 07 31.05	+51 17 58.5	16.6 N	A12
C/2011 J2	2014 08 30.90975	00 07 30.79	+51 17 57.0	16.5 N	A12
C/2011 J2	2014 08 30.91209	00 07 30.56	+51 17 54.7	16.3 N	A12
C/2011 J2	2014 08 30.91444	00 07 30.45	+51 17 54.1	16.3 N	A12
C/2011 J2	2014 08 30.91678	00 07 30.05	+51 17 53.4	16.6 N	A12
C/2011 J2	2014 08 30.91913	00 07 29.76	+51 17 52.0	16.6 N	A12
C/2011 J2	2014 08 30.92147	00 07 29.49	+51 17 50.7	16.6 N	A12
C/2011 J2	2014 08 30.92382	00 07 29.24	+51 17 49.4	16.6 N	A12
C/2011 J2	2014 08 30.92616	00 07 28.95	+51 17 48.0	16.6 N	A12
C/2011 J2	2014 08 30.92851	00 07 28.69	+51 17 46.8	16.7 N	A12
C/2011 J2	2014 08 30.93086	00 07 28.44	+51 17 45.4	16.6 N	A12
C/2011 J2	2014 08 30.93798	00 07 27.56	+51 17 41.2	16.6 N	A12
C/2011 J2	2014 08 30.94033	00 07 27.35	+51 17 40.1	16.7 N	A12
C/2011 J2	2014 08 30.94267	00 07 27.15	+51 17 39.0	16.6 N	A12
C/2011 J2	2014 08 30.95118	00 07 26.14	+51 17 34.2	15.8 N	C90
C/2011 J2	2014 08 30.95686	00 07 25.47	+51 17 31.7	15.3 N	C90
C/2011 J2	2014 08 30.96498	00 07 24.59	+51 17 26.3	15.8 N	C90
C/2011 J2	2014 08 31.45090	00 06 30.51	+51 12 49.5	14.6 T	D95
C/2011 J2	2014 08 31.45455	00 06 30.14	+51 12 47.3		D95
C/2011 J2	2014 08 31.45673	00 06 29.87	+51 12 46.2		D95
C/2011 J2	2014 08 31.89322	00 05 41.27	+51 08 34.5	15.3 N	C35
C/2011 J2	2014 08 31.89479	00 05 41.13	+51 08 33.5	15.3 N	C35
C/2011 J2	2014 08 31.89638	00 05 40.97	+51 08 32.9	15.3 N	C35
C/2011 J2	2014 08 31.89928	00 05 40.46	+51 08 30.5	15.5 N	C10
C/2011 J2	2014 08 31.92240	00 05 37.90	+51 08 17.0	15.3 N	C10
C/2011 J2	2014 08 31.93840	00 05 36.12	+51 08 08.4	15.7 N	I99
C/2011 J2	2014 08 31.94065	00 05 35.89	+51 08 07.2	15.8 N	I99
C/2011 J2	2014 08 31.94715	00 05 35.10	+51 08 02.9	15.4 N	C10
C/2011 J2	2014 08 31.95432	00 05 34.37	+51 07 59.2	15.7 N	I99
C/2011 J2	2014 09 01.03203	00 05 25.62	+51 07 13.4	15.9 N	I72
C/2011 J2	2014 09 01.03351	00 05 25.39	+51 07 12.6	15.9 N	I72
C/2011 J2	2014 09 01.03647	00 05 25.13	+51 07 11.0	15.9 N	I72
C/2011 J2	2014 09 01.39717	00 04 44.64	+51 03 38.0	15.7 N	H45
C/2011 J2	2014 09 01.39983	00 04 44.34	+51 03 36.3	15.7 N	H45
C/2011 J2	2014 09 01.40156	00 04 44.16	+51 03 35.3	15.6 N	H45
C/2011 J2	2014 09 01.40238	00 04 44.07	+51 03 34.8	15.7 N	H45
C/2011 J2	2014 09 01.40356	00 04 43.93	+51 03 34.1	15.7 N	H45
C/2011 J2	2014 09 01.40466	00 04 43.81	+51 03 33.3	15.7 N	H45
C/2011 J2	2014 09 01.82800	00 03 56.86	+50 59 19.0	15.6 N	K14
C/2011 J2	2014 09 01.84499	00 03 54.94	+50 59 08.9	15.5 N	K14
C/2011 J2	2014 09 01.85265	00 03 54.23	+50 59 02.9	14.5 N	K14
C/2011 J2	2014 09 01.86852	00 03 52.37	+50 58 54.4	15.4 N	K14
C/2011 J2	2014 09 01.87161	00 03 51.92	+50 58 52.8	17.0 T	A77
C/2011 J2	2014 09 01.88289	00 03 50.65	+50 58 46.1	16.6 T	A77
C/2011 J2	2014 09 01.90082	00 03 48.76	+50 58 35.9	16.0 N	K B51
C/2011 J2	2014 09 01.90455	00 03 48.30	+50 58 33.7	16.0 N	K B51
C/2011 J2	2014 09 01.91065	00 03 47.61	+50 58 30.0	16.0 N	K B51
C/2011 J2	2014 09 01.91669	00 03 46.95	+50 58 26.4	16.0 N	K B51
C/2011 J2	2014 09 02.04108	00 03 32.89	+50 57 10.5	15.7 N	Z76
C/2011 J2	2014 09 02.04455	00 03 32.50	+50 57 08.3	15.7 N	Z76
C/2011 J2	2014 09 02.04541	00 03 32.41	+50 57 08.0	15.7 N	Z76

C/2011 J2	2014 09 02.09301	00 03 26.96	+50 56 38.5	16.1 N	L04
C/2011 J2	2014 09 02.09458	00 03 26.72	+50 56 37.6	16.1 N	L04
C/2011 J2	2014 09 02.09576	00 03 26.59	+50 56 36.8	16.1 N	L04
C/2011 J2	2014 09 02.09734	00 03 26.43	+50 56 35.7	16.1 N	L04
C/2011 J2	2014 09 02.81483	00 02 06.52	+50 49 11.8	16.5 N	A12
C/2011 J2	2014 09 02.81772	00 02 06.21	+50 49 10.1	16.6 N	A12
C/2011 J2	2014 09 02.82007	00 02 05.93	+50 49 08.7	16.5 N	A12
C/2011 J2	2014 09 02.82241	00 02 05.68	+50 49 07.2	16.5 N	A12
C/2011 J2	2014 09 02.82476	00 02 05.41	+50 49 05.8	16.5 N	A12
C/2011 J2	2014 09 02.82710	00 02 05.15	+50 49 04.4	16.6 N	A12
C/2011 J2	2014 09 02.82944	00 02 04.89	+50 49 03.0	16.6 N	A12
C/2011 J2	2014 09 02.83179	00 02 04.62	+50 49 01.5	16.5 N	A12
C/2011 J2	2014 09 02.83413	00 02 04.35	+50 49 00.1	16.6 N	A12
C/2011 J2	2014 09 02.83647	00 02 04.10	+50 48 58.5	16.6 N	A12
C/2011 J2	2014 09 02.83882	00 02 03.84	+50 48 57.0	16.6 N	A12
C/2011 J2	2014 09 02.84116	00 02 03.57	+50 48 55.6	16.6 N	A12
C/2011 J2	2014 09 02.84235	00 02 03.35	+50 48 54.4	16.1 N	K 160
C/2011 J2	2014 09 02.84350	00 02 03.30	+50 48 54.1	16.5 N	A12
C/2011 J2	2014 09 02.84369	00 02 03.19	+50 48 53.6	16.1 N	K 160
C/2011 J2	2014 09 02.84502	00 02 03.04	+50 48 53.0	16.1 N	K 160
C/2011 J2	2014 09 02.84585	00 02 03.05	+50 48 52.8	16.6 N	A12
C/2011 J2	2014 09 02.84819	00 02 02.76	+50 48 51.2	16.6 N	A12
C/2011 J2	2014 09 02.85054	00 02 02.49	+50 48 49.6	16.5 N	A12
C/2011 J2	2014 09 02.85288	00 02 02.26	+50 48 48.4	16.5 N	A12
C/2011 J2	2014 09 02.85522	00 02 01.98	+50 48 46.9	16.6 N	A12
C/2011 J2	2014 09 02.85757	00 02 01.69	+50 48 45.4	16.5 N	A12
C/2011 J2	2014 09 02.85991	00 02 01.46	+50 48 44.1	16.4 N	A12
C/2011 J2	2014 09 02.86225	00 02 01.20	+50 48 42.6	16.5 N	A12
C/2011 J2	2014 09 02.86460	00 02 00.94	+50 48 41.1	16.6 N	A12
C/2011 J2	2014 09 02.86694	00 02 00.69	+50 48 39.7	16.6 N	A12
C/2011 J2	2014 09 02.87397	00 01 59.88	+50 48 35.2	16.6 N	A12
C/2011 J2	2014 09 02.87632	00 01 59.61	+50 48 33.9	16.6 N	A12
C/2011 J2	2014 09 02.87761	00 01 59.36	+50 48 32.2	16.8 N	C23
C/2011 J2	2014 09 02.87866	00 01 59.37	+50 48 32.4	16.6 N	A12
C/2011 J2	2014 09 02.88100	00 01 59.12	+50 48 31.2	16.7 N	A12
C/2011 J2	2014 09 02.88364	00 01 58.81	+50 48 29.3	16.6 N	A12
C/2011 J2	2014 09 02.88598	00 01 58.54	+50 48 27.9	16.6 N	A12
C/2011 J2	2014 09 02.89728	00 01 56.96	+50 48 22.6	15.4 N	C23
C/2011 J2	2014 09 02.93892	00 01 52.43	+50 47 53.9	17.1 N	C23
C/2011 J2	2014 09 02.98034	00 01 47.82	+50 47 28.4	17.0 N	K 204
C/2011 J2	2014 09 02.98875	00 01 46.86	+50 47 23.2		K 204
C/2011 J2	2014 09 02.99234	00 01 46.42	+50 47 20.7	16.8 N	C23
C/2011 J2	2014 09 02.99736	00 01 45.89	+50 47 17.9		K 204
C/2011 J2	2014 09 03.09113	00 01 35.28	+50 46 18.8	16.7 N	C23
C/2011 J2	2014 09 03.10923	00 01 33.31	+50 46 06.9	16.1 N	C23
C/2011 J2	2014 09 03.11979	00 01 32.20	+50 46 02.2	17.0 N	Y28
C/2011 J2	2014 09 03.12016	00 01 32.16	+50 46 02.4	17.0 N	Y28
C/2011 J2	2014 09 03.12054	00 01 32.13	+50 46 01.7	17.0 N	Y28
C/2011 J2	2014 09 03.12093	00 01 32.06	+50 46 01.6	17.0 N	Y28
C/2011 J2	2014 09 03.12131	00 01 32.02	+50 46 01.2	17.0 N	Y28
C/2011 J2	2014 09 03.12169	00 01 32.02	+50 46 01.1	17.0 N	Y28
C/2011 J2	2014 09 03.12207	00 01 31.92	+50 46 00.8	16.9 N	Y28
C/2011 J2	2014 09 03.12245	00 01 31.89	+50 46 00.4	16.9 N	Y28



C/2011 J2	2014 09 03.12284	00 01 31.84	+50 46 00.2	16.9 N	Y28
C/2011 J2	2014 09 03.12322	00 01 31.80	+50 46 00.3	17.0 N	Y28
C/2011 J2	2014 09 03.12359	00 01 31.76	+50 45 59.8	17.0 N	Y28
C/2011 J2	2014 09 03.12397	00 01 31.73	+50 45 59.5	17.0 N	Y28
C/2011 J2	2014 09 03.12435	00 01 31.69	+50 45 59.3	16.9 N	Y28
C/2011 J2	2014 09 03.12473	00 01 31.62	+50 45 59.1	17.0 N	Y28
C/2011 J2	2014 09 03.12512	00 01 31.60	+50 45 58.9	16.9 N	Y28
C/2011 J2	2014 09 03.13402	00 01 30.59	+50 45 53.1	16.9 N	Y28
C/2011 J2	2014 09 03.13440	00 01 30.56	+50 45 53.0	16.9 N	Y28
C/2011 J2	2014 09 03.13478	00 01 30.51	+50 45 52.6	17.0 N	Y28
C/2011 J2	2014 09 03.13516	00 01 30.45	+50 45 52.8	16.9 N	Y28
C/2011 J2	2014 09 03.13554	00 01 30.40	+50 45 52.3	17.0 N	Y28
C/2011 J2	2014 09 03.13593	00 01 30.35	+50 45 52.1	17.1 N	Y28
C/2011 J2	2014 09 03.13631	00 01 30.29	+50 45 51.8	17.1 N	Y28
C/2011 J2	2014 09 03.13669	00 01 30.28	+50 45 51.4	17.0 N	Y28
C/2011 J2	2014 09 03.13707	00 01 30.21	+50 45 51.2	17.1 N	Y28
C/2011 J2	2014 09 03.13744	00 01 30.17	+50 45 51.0	16.9 N	Y28
C/2011 J2	2014 09 03.27240	00 01 15.19	+50 44 24.1	16.5 N	4 U69
C/2011 J2	2014 09 03.27832	00 01 14.51	+50 44 20.5	16.5 N	4 U69
C/2011 J2	2014 09 03.27921	00 01 14.41	+50 44 19.9	16.5 N	4 U69
C/2011 J2	2014 09 03.28007	00 01 14.35	+50 44 19.4	16.6 N	4 U69
C/2011 J2	2014 09 03.28096	00 01 14.24	+50 44 18.6	16.5 N	4 U69
C/2011 J2	2014 09 03.28212	00 01 14.08	+50 44 18.3	16.5 N	4 U69
C/2011 J2	2014 09 03.28304	00 01 13.99	+50 44 17.3	16.6 N	4 U69
C/2011 J2	2014 09 03.28390	00 01 13.90	+50 44 17.1	16.6 N	4 U69
C/2011 J2	2014 09 03.87108	00 00 08.06	+50 37 58.2	15.6 N	C23
C/2011 J2	2014 09 03.88066	00 00 06.99	+50 37 51.6	16.6 N	C23
C/2011 J2	2014 09 03.88299	00 00 06.77	+50 37 49.5	16.7 N	C23
C/2011 J2	2014 09 03.94157	00 00 00.28	+50 37 13.5	15.5 N	I99
C/2011 J2	2014 09 03.94382	00 00 00.03	+50 37 11.7	15.5 N	I99
C/2011 J2	2014 09 03.95039	23 59 59.30	+50 37 07.4	15.6 N	I99
C/2011 J2	2014 09 04.01235	23 59 52.25	+50 36 26.5	17.2 N	586
C/2011 J2	2014 09 04.01311	23 59 52.16	+50 36 26.0	17.2 N	586
C/2011 J2	2014 09 04.01386	23 59 52.07	+50 36 25.6	17.2 N	586
C/2011 J2	2014 09 04.01462	23 59 52.01	+50 36 25.2	17.3 N	586
C/2011 J2	2014 09 04.01538	23 59 51.90	+50 36 24.6	17.3 N	586
C/2011 J2	2014 09 04.01614	23 59 51.82	+50 36 24.1	17.3 N	586
C/2011 J2	2014 09 04.01689	23 59 51.73	+50 36 23.6	17.2 N	586
C/2011 J2	2014 09 04.01765	23 59 51.64	+50 36 23.1	17.3 N	586
C/2011 J2	2014 09 04.01841	23 59 51.57	+50 36 22.6	17.3 N	586
C/2011 J2	2014 09 04.01917	23 59 51.47	+50 36 22.1	17.3 N	586
C/2011 J2	2014 09 04.02174	23 59 51.19	+50 36 20.5	17.3 N	586
C/2011 J2	2014 09 04.02250	23 59 51.10	+50 36 20.0	17.2 N	586
C/2011 J2	2014 09 04.02325	23 59 51.02	+50 36 19.5	17.3 N	586
C/2011 J2	2014 09 04.02401	23 59 50.92	+50 36 19.0	17.3 N	586
C/2011 J2	2014 09 04.02477	23 59 50.83	+50 36 18.5	17.2 N	586
C/2011 J2	2014 09 04.02553	23 59 50.75	+50 36 18.0	17.2 N	586
C/2011 J2	2014 09 04.02628	23 59 50.67	+50 36 17.5	17.2 N	586
C/2011 J2	2014 09 04.02704	23 59 50.59	+50 36 17.0	17.3 N	586
C/2011 J2	2014 09 04.02780	23 59 50.49	+50 36 16.5	17.3 N	586
C/2011 J2	2014 09 04.02856	23 59 50.41	+50 36 16.0	17.3 N	586
C/2011 J2	2014 09 04.03077	23 59 50.20	+50 36 14.8	15.6 N	I72
C/2011 J2	2014 09 04.03372	23 59 49.83	+50 36 13.2	15.6 N	I72

C/2011 J2	2014 09 04.03520	23 59 49.67	+50 36 11.6	15.6 N	I72
C/2011 J2	2014 09 04.04509	23 59 48.54	+50 36 05.2	17.3 N	586
C/2011 J2	2014 09 04.04584	23 59 48.45	+50 36 04.7	17.3 N	586
C/2011 J2	2014 09 04.04660	23 59 48.37	+50 36 04.2	17.2 N	586
C/2011 J2	2014 09 04.04736	23 59 48.28	+50 36 03.7	17.2 N	586
C/2011 J2	2014 09 04.04812	23 59 48.20	+50 36 03.2	17.3 N	586
C/2011 J2	2014 09 04.04888	23 59 48.11	+50 36 02.7	17.2 N	586
C/2011 J2	2014 09 04.04963	23 59 48.02	+50 36 02.2	17.3 N	586
C/2011 J2	2014 09 04.05039	23 59 47.94	+50 36 01.7	17.2 N	586
C/2011 J2	2014 09 04.05115	23 59 47.86	+50 36 01.3	17.3 N	586
C/2011 J2	2014 09 04.05190	23 59 47.76	+50 36 00.7	17.3 N	586
C/2011 J2	2014 09 04.41515	23 59 07.17	+50 32 02.8		17F65
C/2011 J2	2014 09 04.42473	23 59 06.08	+50 31 56.3		17F65
C/2011 J2	2014 09 04.42731	23 59 05.79	+50 31 54.8	17.1 N	17F65
C/2011 J2	2014 09 05.05573	23 57 55.35	+50 24 53.2	17.7 N	586
C/2011 J2	2014 09 05.05649	23 57 55.27	+50 24 52.7	17.6 N	586
C/2011 J2	2014 09 05.05724	23 57 55.18	+50 24 52.1	17.6 N	586
C/2011 J2	2014 09 05.05800	23 57 55.10	+50 24 51.6	17.6 N	586
C/2011 J2	2014 09 05.05876	23 57 55.01	+50 24 51.1	17.6 N	586
C/2011 J2	2014 09 05.05952	23 57 54.93	+50 24 50.6	17.6 N	586
C/2011 J2	2014 09 05.06028	23 57 54.84	+50 24 50.1	17.6 N	586
C/2011 J2	2014 09 05.06103	23 57 54.75	+50 24 49.6	17.7 N	586
C/2011 J2	2014 09 05.06179	23 57 54.68	+50 24 49.1	17.7 N	586
C/2011 J2	2014 09 05.06255	23 57 54.58	+50 24 48.6	17.5 N	586
C/2011 J2	2014 09 05.06331	23 57 54.49	+50 24 48.1	17.7 N	586
C/2011 J2	2014 09 05.06406	23 57 54.41	+50 24 47.6	17.6 N	586
C/2011 J2	2014 09 05.06482	23 57 54.32	+50 24 47.1	17.5 N	586
C/2011 J2	2014 09 05.06558	23 57 54.24	+50 24 46.5	17.6 N	586
C/2011 J2	2014 09 05.06634	23 57 54.15	+50 24 46.0	17.6 N	586
C/2011 J2	2014 09 05.06710	23 57 54.06	+50 24 45.5	17.6 N	586
C/2011 J2	2014 09 05.06786	23 57 53.98	+50 24 45.0	17.5 N	586
C/2011 J2	2014 09 05.06861	23 57 53.89	+50 24 44.5	17.6 N	586
C/2011 J2	2014 09 05.06937	23 57 53.81	+50 24 44.0	17.6 N	586
C/2011 J2	2014 09 05.07013	23 57 53.72	+50 24 43.4	17.6 N	586
C/2011 J2	2014 09 05.07305	23 57 53.39	+50 24 41.5	17.8 N	586
C/2011 J2	2014 09 05.07353	23 57 53.39	+50 24 41.6	15.1 N	C36
C/2011 J2	2014 09 05.07381	23 57 53.31	+50 24 40.9	17.6 N	586
C/2011 J2	2014 09 05.07428	23 57 53.27	+50 24 40.1	15.2 N	C36
C/2011 J2	2014 09 05.07457	23 57 53.22	+50 24 40.4	17.6 N	586
C/2011 J2	2014 09 05.07532	23 57 53.14	+50 24 39.9	17.6 N	586
C/2011 J2	2014 09 05.07608	23 57 53.05	+50 24 39.4	17.6 N	586
C/2011 J2	2014 09 05.07684	23 57 52.96	+50 24 38.9	17.7 N	586
C/2011 J2	2014 09 05.07760	23 57 52.88	+50 24 38.4	17.7 N	586
C/2011 J2	2014 09 05.07836	23 57 52.79	+50 24 37.9	17.6 N	586
C/2011 J2	2014 09 05.07844	23 57 52.81	+50 24 37.6	14.9 N	C36
C/2011 J2	2014 09 05.07911	23 57 52.71	+50 24 37.4	17.6 N	586
C/2011 J2	2014 09 05.07987	23 57 52.63	+50 24 36.8	17.7 N	586
C/2011 J2	2014 09 05.08067	23 57 52.53	+50 24 36.3	17.5 N	586
C/2011 J2	2014 09 05.08141	23 57 52.42	+50 24 35.7	15.1 N	C36
C/2011 J2	2014 09 05.08143	23 57 52.44	+50 24 35.8	17.6 N	586
C/2011 J2	2014 09 05.08219	23 57 52.36	+50 24 35.3	17.6 N	586
C/2011 J2	2014 09 05.08295	23 57 52.27	+50 24 34.8	17.7 N	586
C/2011 J2	2014 09 05.08340	23 57 52.17	+50 24 33.8	14.8 N	C36



C/2011 J2	2014 09 05.08371	23 57 52.19	+50 24 34.2	17.6 N	586
C/2011 J2	2014 09 05.08446	23 57 52.10	+50 24 33.7	17.6 N	586
C/2011 J2	2014 09 05.08522	23 57 52.02	+50 24 33.2	17.6 N	586
C/2011 J2	2014 09 05.08538	23 57 52.08	+50 24 33.2	15.0 N	C36
C/2011 J2	2014 09 05.08674	23 57 51.84	+50 24 32.2	17.6 N	586
C/2011 J2	2014 09 05.08749	23 57 51.76	+50 24 31.7	17.6 N	586
C/2011 J2	2014 09 05.08825	23 57 51.67	+50 24 31.2	17.7 N	586
C/2011 J2	2014 09 05.08901	23 57 51.58	+50 24 30.6	17.7 N	586
C/2011 J2	2014 09 05.08977	23 57 51.50	+50 24 30.1	17.6 N	586
C/2011 J2	2014 09 05.09053	23 57 51.41	+50 24 29.7	17.6 N	586
C/2011 J2	2014 09 05.09128	23 57 51.33	+50 24 29.1	17.7 N	586
C/2011 J2	2014 09 05.09204	23 57 51.24	+50 24 28.6	17.7 N	586
C/2011 J2	2014 09 05.09280	23 57 51.16	+50 24 28.1	17.6 N	586
C/2011 J2	2014 09 05.09356	23 57 51.08	+50 24 27.5	17.6 N	586
C/2011 J2	2014 09 05.09507	23 57 50.89	+50 24 26.5	17.6 N	586
C/2011 J2	2014 09 05.86905	23 56 24.33	+50 15 35.4	15.9 N	C23
C/2011 J2	2014 09 05.88099	23 56 23.16	+50 15 27.3	16.5 N	C47
C/2011 J2	2014 09 05.88395	23 56 22.82	+50 15 25.0	17.0 N	C47
C/2011 J2	2014 09 05.88727	23 56 22.51	+50 15 22.7	17.1 N	C47
C/2011 J2	2014 09 05.89058	23 56 21.97	+50 15 21.1	17.1 N	C47
C/2011 J2	2014 09 05.89390	23 56 21.73	+50 15 17.9	15.8 N	C47
C/2011 J2	2014 09 05.89796	23 56 21.25	+50 15 15.6	17.1 N	C47
C/2011 J2	2014 09 05.90204	23 56 20.77	+50 15 12.8	16.0 N	C23
C/2011 J2	2014 09 05.95031	23 56 15.22	+50 14 39.2	16.3 N	C23
C/2011 J2	2014 09 05.95930	23 56 14.29	+50 14 33.2	15.0 N	C23
C/2011 J2	2014 09 06.83379	23 54 36.65	+50 04 15.0	16.3 N	C47
C/2011 J2	2014 09 06.83674	23 54 36.27	+50 04 12.7	17.0 N	C47
C/2011 J2	2014 09 06.84006	23 54 35.92	+50 04 10.5	16.6 N	C47
C/2011 J2	2014 09 06.84338	23 54 35.57	+50 04 07.5	16.6 N	C47
C/2011 J2	2014 09 06.84706	23 54 35.16	+50 04 05.4	17.0 N	C47
C/2011 J2	2014 09 06.85112	23 54 34.67	+50 04 02.7	16.9 N	C47
C/2011 J2	2014 09 06.91167	23 54 27.91	+50 03 19.6	16.0 N	K 160
C/2011 J2	2014 09 06.91840	23 54 27.15	+50 03 14.8	16.0 N	K 160
C/2011 J2	2014 09 06.92244	23 54 26.69	+50 03 11.9	16.0 N	K 160
C/2011 J2-B	2014 08 27.94773	00 12 58.50	+51 44 11.6	18 N	HA12
C/2011 J2-B	2014 08 28.85448	00 11 18.70	+51 36 31.7	18 N	HA12
C/2011 J2-B	2014 08 30.92851	00 07 28.72	+51 17 54.3	18 N	HA12
C/2011 J2-B	2014 09 02.38865	00 02 54.10	+50 53 47.3	19.5 N	4 U69
C/2011 J2-B	2014 09 02.38976	00 02 53.97	+50 53 45.9	19.1 N	4 U69
C/2011 J2-B	2014 09 02.39060	00 02 53.90	+50 53 44.8	18.5 N	4 U69
C/2011 J2-B	2014 09 02.39145	00 02 53.63	+50 53 43.8	18.5 N	4 U69
C/2011 J2-B	2014 09 02.39403	00 02 53.41	+50 53 42.8	18.1 N	4 U69
C/2011 J2-B	2014 09 02.88110	00 01 59.11	+50 48 39.2	18.7 N	H B96
C/2011 J2-B	2014 09 02.88247	00 01 59.01	+50 48 37.1	18.8 N	H B96
C/2011 J2-B	2014 09 02.88382	00 01 58.77	+50 48 36.5	18.7 N	H B96
C/2011 J2-B	2014 09 02.88519	00 01 58.53	+50 48 35.0	18.8 N	H B96
C/2011 J2-B	2014 09 02.88655	00 01 58.50	+50 48 35.5	18.8 N	H B96
C/2011 J2-B	2014 09 02.98034	00 01 47.94	+50 47 36.1	19.9 N	H 204
C/2011 J2-B	2014 09 02.98875	00 01 46.97	+50 47 31.0		H 204
C/2011 J2-B	2014 09 02.99736	00 01 45.93	+50 47 26.1		H 204
C/2011 J2-B	2014 09 03.12245	00 01 32.08	+50 46 08.7	19.6 N	Y28
C/2011 J2-B	2014 09 03.13669	00 01 30.38	+50 45 59.9	20.2 N	Y28
C/2011 J2-B	2014 09 04.01235	23 59 52.39	+50 36 35.0	20.2 N	586

C/2011 J2-B	2014 09 04.01311	23 59 52.24	+50 36 34.5	20.2 N	586
C/2011 J2-B	2014 09 04.01386	23 59 52.19	+50 36 34.2	20.3 N	586
C/2011 J2-B	2014 09 04.01462	23 59 52.15	+50 36 33.7	20.0 N	586
C/2011 J2-B	2014 09 04.01538	23 59 52.03	+50 36 33.3	20.0 N	586
C/2011 J2-B	2014 09 04.01614	23 59 51.97	+50 36 32.7	20.1 N	586
C/2011 J2-B	2014 09 04.01689	23 59 51.87	+50 36 32.4	20.3 N	586
C/2011 J2-B	2014 09 04.01765	23 59 51.78	+50 36 31.8	20.2 N	586
C/2011 J2-B	2014 09 04.01841	23 59 51.67	+50 36 31.0	20.2 N	586
C/2011 J2-B	2014 09 04.01917	23 59 51.61	+50 36 31.1	20.0 N	586
C/2011 J2-B	2014 09 04.02174	23 59 51.33	+50 36 29.4	20.3 N	586
C/2011 J2-B	2014 09 04.02250	23 59 51.24	+50 36 28.7	20.1 N	586
C/2011 J2-B	2014 09 04.02325	23 59 51.17	+50 36 28.2	20.1 N	586
C/2011 J2-B	2014 09 04.02401	23 59 51.07	+50 36 27.6	19.9 N	586
C/2011 J2-B	2014 09 04.02477	23 59 50.95	+50 36 26.9	20.1 N	586
C/2011 J2-B	2014 09 04.02553	23 59 50.89	+50 36 26.7	20.1 N	586
C/2011 J2-B	2014 09 04.02628	23 59 50.80	+50 36 26.1	20.0 N	586
C/2011 J2-B	2014 09 04.02704	23 59 50.72	+50 36 25.7	20.0 N	586
C/2011 J2-B	2014 09 04.02780	23 59 50.62	+50 36 25.2	20.1 N	586
C/2011 J2-B	2014 09 04.02856	23 59 50.56	+50 36 24.7	20.3 N	586
C/2011 J2-B	2014 09 04.04509	23 59 48.71	+50 36 13.6	20.0 N	586
C/2011 J2-B	2014 09 04.04584	23 59 48.59	+50 36 13.5	20.1 N	586
C/2011 J2-B	2014 09 04.04660	23 59 48.51	+50 36 13.1	20.1 N	586
C/2011 J2-B	2014 09 04.04736	23 59 48.42	+50 36 12.3	20.1 N	586
C/2011 J2-B	2014 09 04.04812	23 59 48.33	+50 36 11.9	20.0 N	586
C/2011 J2-B	2014 09 04.04888	23 59 48.25	+50 36 11.3	19.9 N	586
C/2011 J2-B	2014 09 04.04963	23 59 48.16	+50 36 10.9	20.1 N	586
C/2011 J2-B	2014 09 04.05039	23 59 48.08	+50 36 10.4	20.1 N	586
C/2011 J2-B	2014 09 04.05115	23 59 48.02	+50 36 10.1	20.0 N	586
C/2011 J2-B	2014 09 04.05190	23 59 47.89	+50 36 09.3	20.1 N	586
C/2011 J2-B	2014 09 04.41515	23 59 07.33	+50 32 10.9	20.7 N	17F65
C/2011 J2-B	2014 09 04.42473	23 59 06.23	+50 32 05.0		17F65
C/2011 J2-B	2014 09 04.42731	23 59 05.95	+50 32 03.7		17F65
C/2011 J2-B	2014 09 05.05573	23 57 55.52	+50 25 01.7	20.5 N	586
C/2011 J2-B	2014 09 05.05649	23 57 55.41	+50 25 01.2	20.5 N	586
C/2011 J2-B	2014 09 05.05724	23 57 55.31	+50 25 01.0	20.5 N	586
C/2011 J2-B	2014 09 05.05800	23 57 55.26	+50 25 00.6	20.6 N	586
C/2011 J2-B	2014 09 05.05876	23 57 55.22	+50 25 00.0	20.7 N	586
C/2011 J2-B	2014 09 05.05952	23 57 55.06	+50 24 59.7	20.4 N	586
C/2011 J2-B	2014 09 05.06028	23 57 54.99	+50 24 58.6	20.5 N	586
C/2011 J2-B	2014 09 05.06103	23 57 54.91	+50 24 58.2	20.2 N	586
C/2011 J2-B	2014 09 05.06179	23 57 54.84	+50 24 57.7	20.4 N	586
C/2011 J2-B	2014 09 05.06255	23 57 54.73	+50 24 57.7	20.3 N	586
C/2011 J2-B	2014 09 05.06331	23 57 54.69	+50 24 56.7	20.6 N	586
C/2011 J2-B	2014 09 05.06406	23 57 54.55	+50 24 56.2	20.3 N	586
C/2011 J2-B	2014 09 05.06482	23 57 54.50	+50 24 55.5	20.2 N	586
C/2011 J2-B	2014 09 05.06558	23 57 54.40	+50 24 55.4	20.6 N	586
C/2011 J2-B	2014 09 05.06634	23 57 54.32	+50 24 54.8	20.3 N	586
C/2011 J2-B	2014 09 05.06710	23 57 54.22	+50 24 54.0	20.5 N	586
C/2011 J2-B	2014 09 05.06786	23 57 54.17	+50 24 53.5	20.4 N	586
C/2011 J2-B	2014 09 05.06861	23 57 54.03	+50 24 53.0	20.8 N	586
C/2011 J2-B	2014 09 05.06937	23 57 53.95	+50 24 52.5	20.3 N	586
C/2011 J2-B	2014 09 05.07013	23 57 53.87	+50 24 52.4	20.4 N	586
C/2011 J2-B	2014 09 05.07305	23 57 53.53	+50 24 50.1	20.6 N	586



C/2011 J2-B	2014 09 05.07381	23 57 53.44	+50 24 49.8	20.4 N	586	
C/2011 J2-B	2014 09 05.07457	23 57 53.38	+50 24 49.0	20.4 N	586	
C/2011 J2-B	2014 09 05.07532	23 57 53.30	+50 24 48.6	20.5 N	586	
C/2011 J2-B	2014 09 05.07608	23 57 53.21	+50 24 48.1	20.9 N	586	
C/2011 J2-B	2014 09 05.07684	23 57 53.11	+50 24 47.8	20.3 N	586	
C/2011 J2-B	2014 09 05.07760	23 57 53.03	+50 24 47.2	20.6 N	586	
C/2011 J2-B	2014 09 05.07836	23 57 52.93	+50 24 46.4	20.7 N	586	
C/2011 J2-B	2014 09 05.07911	23 57 52.85	+50 24 46.3	20.6 N	586	
C/2011 J2-B	2014 09 05.07987	23 57 52.78	+50 24 45.6	20.5 N	586	
C/2011 J2-B	2014 09 05.08067	23 57 52.69	+50 24 45.1	20.5 N	586	
C/2011 J2-B	2014 09 05.08143	23 57 52.62	+50 24 44.1	20.3 N	586	
C/2011 J2-B	2014 09 05.08219	23 57 52.49	+50 24 44.2	20.3 N	586	
C/2011 J2-B	2014 09 05.08295	23 57 52.40	+50 24 43.4	20.3 N	586	
C/2011 J2-B	2014 09 05.08371	23 57 52.36	+50 24 42.6	20.5 N	586	
C/2011 J2-B	2014 09 05.08446	23 57 52.27	+50 24 42.3	20.7 N	586	
C/2011 J2-B	2014 09 05.08522	23 57 52.16	+50 24 41.8	20.4 N	586	
C/2011 J2-B	2014 09 05.08674	23 57 51.96	+50 24 40.9	20.5 N	586	
C/2011 J2-B	2014 09 05.08749	23 57 51.91	+50 24 40.6	20.2 N	586	
C/2011 J2-B	2014 09 05.08825	23 57 51.84	+50 24 40.0	20.4 N	586	
C/2011 J2-B	2014 09 05.08901	23 57 51.70	+50 24 39.6	20.5 N	586	
C/2011 J2-B	2014 09 05.08977	23 57 51.63	+50 24 38.8	20.5 N	586	
C/2011 J2-B	2014 09 05.09053	23 57 51.59	+50 24 38.1	20.2 N	586	
C/2011 J2-B	2014 09 05.09128	23 57 51.47	+50 24 37.9	20.5 N	586	
C/2011 J2-B	2014 09 05.09204	23 57 51.42	+50 24 37.1	20.2 N	586	
C/2011 J2-B	2014 09 05.09280	23 57 51.32	+50 24 37.0	20.2 N	586	
C/2011 J2-B	2014 09 05.09356	23 57 51.23	+50 24 36.4	20.4 N	586	
C/2011 J2-B	2014 09 07.81394	23 52 47.56	+49 52 31.9	19.5 N	K 470	
C/2011 J2-B	2014 09 07.81573	23 52 47.26	+49 52 29.9		K 470	

**C/2011 KP<sub>36</sub> (Spacewatch)**

C/2011 KP <sub>36</sub>	2014 08 13.51448	18 55 53.14	-03 12 28.7	17.4 N	30D90	
C/2011 KP <sub>36</sub>	2014 08 13.52118	18 55 53.03	-03 12 29.5	17.4 N	30D90	
C/2011 KP <sub>36</sub>	2014 08 13.53013	18 55 52.90	-03 12 31.0	17.4 N	30D90	
C/2011 KP <sub>36</sub>	2014 08 15.89568	18 55 21.18	-03 19 07.2	17.6 N	J01	
C/2011 KP <sub>36</sub>	2014 08 15.90306	18 55 21.07	-03 19 08.4	17.5 N	J01	
C/2011 KP <sub>36</sub>	2014 08 15.91414	18 55 20.95	-03 19 10.4	17.7 N	J01	
C/2011 KP <sub>36</sub>	2014 08 16.87363	18 55 08.78	-03 21 53.2	17.5 N	K 160	
C/2011 KP <sub>36</sub>	2014 08 16.87636	18 55 08.74	-03 21 53.7	17.6 N	K 160	
C/2011 KP <sub>36</sub>	2014 08 16.87895	18 55 08.69	-03 21 54.3	17.5 N	K 160	
C/2011 KP <sub>36</sub>	2014 08 16.88660	18 55 08.52	-03 21 55.2	17.5 N	C23	
C/2011 KP <sub>36</sub>	2014 08 16.88805	18 55 08.63	-03 21 55.4	16.9 N	C23	
C/2011 KP <sub>36</sub>	2014 08 16.88949	18 55 08.55	-03 21 55.9	16.9 N	C23	
C/2011 KP <sub>36</sub>	2014 08 17.12877	18 55 05.58	-03 22 36.7	17.7 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 17.13632	18 55 05.46	-03 22 38.4	17.6 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 17.14391	18 55 05.38	-03 22 39.6	17.5 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 17.15144	18 55 05.29	-03 22 40.9	17.6 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 17.15895	18 55 05.21	-03 22 42.0	17.5 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 17.16645	18 55 05.12	-03 22 43.2	17.5 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 17.17397	18 55 05.02	-03 22 44.5	17.5 N	K 850	
C/2011 KP <sub>36</sub>	2014 08 18.87876	18 54 44.73	-03 27 37.7	16.8 N	K C23	
C/2011 KP <sub>36</sub>	2014 08 18.88095	18 54 44.74	-03 27 38.1	16.9 N	K C23	
C/2011 KP <sub>36</sub>	2014 08 18.89004	18 54 44.61	-03 27 40.5	17.9 N	K 160	
C/2011 KP <sub>36</sub>	2014 08 18.89207	18 54 44.56	-03 27 41.0	17.9 N	K 160	

C/2011 KP <sub>36</sub>	2014 08 18.89411	18 54 44.56	-03 27 41.5	17.9 N	K 160	
C/2011 KP <sub>36</sub>	2014 08 19.79982	18 54 34.32	-03 30 18.7	17.6 N	K L22	
C/2011 KP <sub>36</sub>	2014 08 19.81057	18 54 34.12	-03 30 20.5	17.6 N	K L22	
C/2011 KP <sub>36</sub>	2014 08 24.88075	18 53 44.37	-03 45 25.7	17.0 N	I57	
C/2011 KP <sub>36</sub>	2014 08 24.88439	18 53 44.38	-03 45 26.2	17.1 N	I57	
C/2011 KP <sub>36</sub>	2014 08 24.88815	18 53 44.38	-03 45 26.6	16.8 N	I57	
C/2011 KP <sub>36</sub>	2014 08 27.95834	18 53 20.68	-03 54 48.5	16.5 N	B54	
C/2011 KP <sub>36</sub>	2014 08 27.95848	18 53 20.68	-03 54 48.6	16.6 N	B54	
C/2011 KP <sub>36</sub>	2014 08 27.95865	18 53 20.68	-03 54 48.7	16.6 N	B54	
C/2011 KP <sub>36</sub>	2014 08 28.89545	18 53 14.53	-03 57 40.7	17.9 N	K 160	
C/2011 KP <sub>36</sub>	2014 08 28.90046	18 53 14.39	-03 57 43.0		K 160	
C/2011 KP <sub>36</sub>	2014 08 31.93106	18 52 57.68	-04 07 07.4	16.9 N	C23	
C/2011 KP <sub>36</sub>	2014 08 31.93764	18 52 57.73	-04 07 08.4	16.9 N	C23	

**C/2011 L4 (PANSTARRS)**

C/2011 L4	2014 03 10.75410	17 22 26.92	+32 27 48.2	16.3 T	349	
C/2011 L4	2014 03 10.76494	17 22 26.84	+32 27 53.1		349	
C/2011 L4	2014 03 10.77580	17 22 26.77	+32 27 58.2		349	
C/2011 L4	2014 07 21.92265	15 57 05.99	+34 37 30.1	19.9 N	A32	
C/2011 L4	2014 07 21.93178	15 57 05.74	+34 37 26.7	19.9 N	A32	
C/2011 L4	2014 08 24.83981	15 52 51.20	+30 21 32.4	19.4 T	G36	
C/2011 L4	2014 08 24.85885	15 52 51.29	+30 21 24.0	18.8 T	G36	
C/2011 L4	2014 08 24.88180	15 52 51.34	+30 21 13.9	19.0 T	G36	
C/2011 L4	2014 08 24.89578	15 52 51.41	+30 21 07.4	19.0 T	G36	
C/2011 L4	2014 08 24.90296	15 52 51.66	+30 21 03.5	18.7 T	K 104	
C/2011 L4	2014 08 24.91047	15 52 51.70	+30 20 59.7	19.1 T	K 104	
C/2011 L4	2014 08 26.95758	15 53 01.35	+30 05 45.4	19.8 N	K 181	
C/2011 L4	2014 08 26.96159	15 53 01.37	+30 05 44.2	19.7 N	K 181	
C/2011 L4	2014 08 26.96559	15 53 01.31	+30 05 43.7	20.3 N	K 181	

**C/2012 A2 (LINEAR)**

C/2012 A2	2014 08 20.53279	01 00 02.820	-00 56 04.17	20.5 T	F51	
C/2012 A2	2014 08 20.54502	01 00 02.448	-00 56 09.76	20.4 T	F51	
C/2012 A2	2014 08 20.55724	01 00 02.062	-00 56 15.42	20.6 T	F51	
C/2012 A2	2014 08 20.56948	01 00 01.705	-00 56 20.98	20.5 T	F51	
C/2012 A2	2014 08 20.57174	01 00 01.643	-00 56 21.70	20.7 T	F51	
C/2012 A2	2014 08 20.58314	01 00 01.296	-00 56 27.29	20.4 T	F51	
C/2012 A2	2014 08 20.59456	01 00 00.947	-00 56 32.56	20.6 T	F51	
C/2012 A2	2014 08 20.60598	01 00 00.601	-00 56 37.57	20.6 T	F51	
C/2012 A2	2014 08 30.50477	00 54 41.248	-02 14 02.89	20.3 T	F51	
C/2012 A2	2014 08 30.51581	00 54 40.866	-02 14 08.15	20.3 T	F51	
C/2012 A2	2014 08 30.52689	00 54 40.466	-02 14 13.44	20.6 T	F51	
C/2012 A2	2014 09 03.43193	00 52 21.98	-02 45 38.7	17.8 T	703	
C/2012 A2	2014 09 03.44393	00 52 21.52	-02 45 43.0	17.8 T	703	
C/2012 A2	2014 09 03.45278	00 52 21.30	-02 45 47.9	18.3 T	703	

**P/2012 B1 (PANSTARRS)**

P/2012 B1	2014 08 03.51116	15 43 13.37	-24 49 48.1	16.4 N	30D90	
P/2012 B1	2014 08 03.51563	15 43 13.42	-24 49 48.2	16.4 N	30D90	
P/2012 B1	2014 08 03.52009	15 43 13.49	-24 49 48.4	16.4 N	30D90	
P/2012 B1	2014 08 13.49125	15 46 38.41	-24 57 56.1	16.5 N	30D90	
P/2012 B1	2014 08 13.49796	15 46 38.57	-24 57 56.6	16.5 N	30D90	
P/2012 B1	2014 08 13.50912	15 46 38.84	-24 57 57.2	16.5 N	30D90	



**C/2012 F3 (PANSTARRS)**

C/2012 F3	2014 08 06.44652	13 54 40.41	-01 58 44.9	15.9 N	30D90
C/2012 F3	2014 08 06.45322	13 54 40.72	-01 58 46.7	15.9 N	30D90
C/2012 F3	2014 08 06.45993	13 54 40.97	-01 58 48.9	15.9 N	30D90
C/2012 F3	2014 08 11.90508	13 58 40.10	-02 25 56.0	16.3 T	Y00
C/2012 F3	2014 08 11.91463	13 58 40.55	-02 25 58.8	16.3 T	Y00
C/2012 F3	2014 08 11.92423	13 58 41.00	-02 26 01.7	16.2 T	Y00
C/2012 F3	2014 08 16.80912	14 02 31.56	-02 51 24.7	16.4 N	K 160
C/2012 F3	2014 08 16.81119	14 02 31.65	-02 51 25.4	16.4 N	K 160
C/2012 F3	2014 08 16.81326	14 02 31.77	-02 51 26.4	16.4 N	K 160
C/2012 F3	2014 08 18.79491	14 04 09.50	-03 01 58.8	16.3 N	K 160
C/2012 F3	2014 08 18.79672	14 04 09.56	-03 01 58.9	16.2 N	K 160
C/2012 F3	2014 08 18.79979	14 04 09.73	-03 01 59.3	16.2 N	K 160
C/2012 F3	2014 08 20.45986	14 05 33.45	-03 10 55.6		900
C/2012 F3	2014 08 20.46354	14 05 33.68	-03 10 56.5	15.5 T	900
C/2012 F3	2014 08 21.89972	14 06 47.45	-03 18 43.2	16.2 T	Y00
C/2012 F3	2014 08 21.90442	14 06 47.71	-03 18 43.9	16.3 T	Y00
C/2012 F3	2014 08 21.91276	14 06 48.13	-03 18 47.2	16.2 T	Y00
C/2012 F3	2014 09 05.93571	14 20 50.25	-04 43 28.6	16.1 T	Y00
C/2012 F3	2014 09 05.94452	14 20 50.84	-04 43 30.8	16.1 T	Y00
C/2012 F3	2014 09 05.95339	14 20 51.33	-04 43 35.2	16.2 T	Y00

**C/2012 F6 (Lemmon)**

C/2012 F6	2014 08 13.90966	18 06 09.00	+76 45 53.8	18.9 N	C23
C/2012 F6	2014 08 13.91977	18 06 07.85	+76 45 46.3	19.0 N	C23
C/2012 F6	2014 08 20.95087	17 53 51.28	+75 56 21.4	18.7 N	K C23
C/2012 F6	2014 08 20.96242	17 53 49.56	+75 56 16.9	18.7 N	K C23
C/2012 F6	2014 08 31.89831	17 41 02.77	+74 30 33.8	18.3 N	K C23
C/2012 F6	2014 08 31.91131	17 41 01.82	+74 30 25.1	19.0 N	K C23

**C/2012 J1 (Catalina)**

C/2012 J1	2013 12 07.39640	05 57 59.34	-00 43 45.6	15.8 T	703
C/2012 J1	2013 12 07.40447	05 57 59.07	-00 43 48.5	15.6 T	703
C/2012 J1	2013 12 07.41254	05 57 58.80	-00 43 51.4	15.5 T	703
C/2012 J1	2013 12 11.50002	05 55 41.919	-01 03 22.25	18.2 T	F51
C/2012 J1	2013 12 11.51254	05 55 41.484	-01 03 25.56	18.3 T	F51
C/2012 J1	2013 12 11.52604	05 55 41.020	-01 03 29.15	18.9 T	F51
C/2012 J1	2014 01 09.17307	05 40 33.69	-02 20 58.4	17.4 T	926
C/2012 J1	2014 01 09.18912	05 40 33.24	-02 20 59.8	17.2 T	926
C/2012 J1	2014 01 09.20523	05 40 32.78	-02 21 00.4	17.3 T	926

**C/2012 K1 (PANSTARRS)**

C/2012 K1	2014 04 01.67814	15 57 14.04	+34 39 22.5	12.0 T	168
C/2012 K1	2014 04 01.68167	15 57 13.51	+34 39 29.7	12.1 T	168
C/2012 K1	2014 04 01.82791	15 56 51.25	+34 44 33.3	11.3 T	168
C/2012 K1	2014 04 01.83040	15 56 50.87	+34 44 38.5	11.4 T	168
C/2012 K1	2014 04 03.69655	15 51 53.42	+35 49 25.5	12.2 T	168
C/2012 K1	2014 04 03.69990	15 51 52.86	+35 49 32.5	11.7 T	168
C/2012 K1	2014 04 03.83648	15 51 29.99	+35 54 20.3	11.7 T	168
C/2012 K1	2014 04 03.83792	15 51 29.74	+35 54 23.1	11.0 T	168
C/2012 K1	2014 04 09.73075	15 32 38.02	+39 22 27.7	11.5 T	168
C/2012 K1	2014 04 09.73399	15 32 37.31	+39 22 34.6	11.6 T	168
C/2012 K1	2014 04 10.73115	15 28 55.21	+39 57 42.3	12.1 T	168
C/2012 K1	2014 04 10.73416	15 28 54.52	+39 57 48.7	11.5 T	168

C/2012 K1	2014 04 10.81125	15 28 36.89	+40 00 32.0	11.4 T	168
C/2012 K1	2014 04 10.81403	15 28 36.25	+40 00 37.7	11.5 T	168
C/2012 K1	2014 04 30.76674	13 40 26.84	+48 57 48.5	11.0 T	168
C/2012 K1	2014 04 30.76868	13 40 26.06	+48 57 50.1	11.6 T	168
C/2012 K1	2014 05 02.74791	13 26 59.41	+49 18 31.1	11.4 T	168
C/2012 K1	2014 05 02.75011	13 26 58.50	+49 18 32.1	11.4 T	168
C/2012 K1	2014 05 02.79279	13 26 40.92	+49 18 53.7	10.5 T	168
C/2012 K1	2014 05 02.79530	13 26 39.87	+49 18 55.0	11.4 T	168
C/2012 K1	2014 05 04.75502	13 13 14.43	+49 31 24.1	11.7 T	168
C/2012 K1	2014 05 04.75896	13 13 12.79	+49 31 25.0	11.8 T	168
C/2012 K1	2014 05 04.85434	13 12 33.38	+49 31 48.9	11.7 T	168
C/2012 K1	2014 05 04.85688	13 12 32.34	+49 31 49.6	11.7 T	168
C/2012 K1	2014 06 03.84161	10 37 51.57	+41 03 12.9	13.0 N	461
C/2012 K1	2014 06 03.84219	10 37 51.49	+41 03 12.1	13.0 N	461
C/2012 K1	2014 06 03.84277	10 37 51.36	+41 03 11.2	13.0 N	461
C/2012 K1	2014 06 03.84334	10 37 51.27	+41 03 10.1	13.0 N	461
C/2012 K1	2014 06 03.84392	10 37 51.16	+41 03 09.2	13.0 N	461
C/2012 K1	2014 06 03.84450	10 37 51.06	+41 03 08.3	13.0 N	461
C/2012 K1	2014 06 03.84513	10 37 50.95	+41 03 07.2	13.0 N	461
C/2012 K1	2014 06 03.84571	10 37 50.85	+41 03 06.4	13.0 N	461
C/2012 K1	2014 06 03.84628	10 37 50.73	+41 03 05.4	13.0 N	461

**C/2012 K6 (McNaught)**

C/2012 K6	2014 05 02.87976	11 52 14.54	+35 56 27.4	16.9 T	168
C/2012 K6	2014 05 02.88220	11 52 14.39	+35 56 27.9	16.8 T	168
C/2012 K6	2014 05 02.92537	11 52 11.58	+35 56 37.7	16.8 T	168
C/2012 K6	2014 05 02.92687	11 52 11.51	+35 56 38.0	16.8 T	168
C/2012 K6	2014 05 04.79145	11 50 13.66	+36 03 22.9	16.9 T	168
C/2012 K6	2014 05 04.79620	11 50 13.39	+36 03 24.0	16.8 T	168
C/2012 K6	2014 05 04.86946	11 50 08.80	+36 03 38.7	16.9 T	168
C/2012 K6	2014 05 04.87190	11 50 08.65	+36 03 38.9	16.9 T	168

**C/2012 K8 (Lemmon)**

C/2012 K8	2014 06 28.33590	18 02 15.52	+50 50 46.9	17.8 T	G45
C/2012 K8	2014 06 28.34891	18 02 14.40	+50 50 48.7	17.7 T	G45
C/2012 K8	2014 06 28.34898	18 02 14.45	+50 50 49.0	17.7 T	G45
C/2012 K8	2014 06 28.36129	18 02 13.38	+50 50 51.2	17.8 T	G45
C/2012 K8	2014 06 28.36135	18 02 13.41	+50 50 50.7	17.8 T	G45
C/2012 K8	2014 06 28.36290	18 02 13.25	+50 50 51.4	17.5 T	G45
C/2012 K8	2014 06 28.37356	18 02 12.38	+50 50 52.4	18.0 T	G45
C/2012 K8	2014 06 28.37363	18 02 12.37	+50 50 53.5	18.0 T	G45
C/2012 K8	2014 06 28.37515	18 02 12.23	+50 50 52.8	18.2 T	G45
C/2012 K8	2014 06 28.38601	18 02 11.29	+50 50 55.5	18.1 T	G45
C/2012 K8	2014 06 28.38607	18 02 11.29	+50 50 55.5	18.1 T	G45
C/2012 K8	2014 07 01.34547	17 58 03.15	+50 58 24.5		G45
C/2012 K8	2014 07 01.34702	17 58 03.00	+50 58 24.5		G45
C/2012 K8	2014 07 01.37186	17 58 00.92	+50 58 27.4		G45
C/2012 K8	2014 07 01.37192	17 58 00.97	+50 58 27.6		G45
C/2012 K8	2014 07 01.38783	17 57 59.60	+50 58 30.0		G45
C/2012 K8	2014 08 11.88420	17 08 02.89	+49 49 13.9	18.1 N	K 585
C/2012 K8	2014 08 11.88491	17 08 02.84	+49 49 13.8	18.0 N	K 585
C/2012 K8	2014 08 11.88562	17 08 02.86	+49 49 13.6	18.1 N	K 585
C/2012 K8	2014 08 11.88633	17 08 02.81	+49 49 13.2	18.0 N	K 585
C/2012 K8	2014 08 11.88704	17 08 02.70	+49 49 13.6	18.0 N	K 585



C/2012 K8	2014 08 11.88845	17 08 02.73	+49 49 12.4	18.0 N	K 585
C/2012 K8	2014 08 11.88916	17 08 02.66	+49 49 12.3	17.8 N	K 585
C/2012 K8	2014 08 11.88987	17 08 02.63	+49 49 12.0	17.9 N	K 585
C/2012 K8	2014 08 11.89129	17 08 02.51	+49 49 12.0	18.1 N	K 585
C/2012 K8	2014 08 11.89164	17 08 02.50	+49 49 11.8	18.1 N	K 585
C/2012 K8	2014 08 11.89200	17 08 02.54	+49 49 11.9	18.1 N	K 585
C/2012 K8	2014 08 11.89270	17 08 02.48	+49 49 11.8	18.0 N	K 585
C/2012 K8	2014 08 11.89341	17 08 02.37	+49 49 11.2	17.9 N	K 585
C/2012 K8	2014 08 11.89377	17 08 02.35	+49 49 11.0	17.8 N	K 585
C/2012 K8	2014 08 12.89768	17 07 09.51	+49 44 28.6	17.9 N	K C23
C/2012 K8	2014 08 12.90778	17 07 08.86	+49 44 24.8	17.1 N	K C23
C/2012 K8	2014 08 14.24083	17 06 00.24	+49 38 01.9	18.2 N	K 850
C/2012 K8	2014 08 14.25578	17 05 59.51	+49 37 58.1	18.0 N	K 850
C/2012 K8	2014 08 14.27073	17 05 58.78	+49 37 52.7	18.1 N	K 850
C/2012 K8	2014 08 14.28567	17 05 57.96	+49 37 48.7	18.2 N	K 850
C/2012 K8	2014 08 14.94178	17 05 25.11	+49 34 37.0	18.0 N	K A77
C/2012 K8	2014 08 14.95075	17 05 24.83	+49 34 33.9	18.4 N	K A77
C/2012 K8	2014 08 14.95810	17 05 24.28	+49 34 30.1	18.2 N	K A77
C/2012 K8	2014 08 15.11054	17 05 16.71	+49 33 47.1	18.0 N	K 850
C/2012 K8	2014 08 15.12605	17 05 15.87	+49 33 42.8	18.1 N	K 850
C/2012 K8	2014 08 15.14156	17 05 15.12	+49 33 37.7	18.1 N	K 850
C/2012 K8	2014 08 15.15707	17 05 14.37	+49 33 33.1	18.0 N	K 850
C/2012 K8	2014 08 15.17255	17 05 13.55	+49 33 29.0	18.0 N	K 850
C/2012 K8	2014 08 15.18804	17 05 12.75	+49 33 24.5	18.1 N	K 850
C/2012 K8	2014 08 15.20355	17 05 12.05	+49 33 19.7	18.2 N	K 850
C/2012 K8	2014 08 15.92911	17 04 36.41	+49 29 43.4	17.5 N	K A77
C/2012 K8	2014 08 15.93986	17 04 35.87	+49 29 39.9	17.8 N	K A77
C/2012 K8	2014 08 15.95067	17 04 35.38	+49 29 36.9	18.0 N	K A77
C/2012 K8	2014 08 17.85088	17 03 04.72	+49 20 00.0	18.4 N	A77
C/2012 K8	2014 08 17.85992	17 03 04.29	+49 19 57.7	18.2 N	A77
C/2012 K8	2014 08 17.87195	17 03 03.70	+49 19 53.0	18.4 N	A77
C/2012 K8	2014 08 17.91839	17 03 01.51	+49 19 39.7	18.2 N	K A77
C/2012 K8	2014 08 17.92941	17 03 01.05	+49 19 36.8	18.3 N	K A77
C/2012 K8	2014 08 17.94057	17 03 00.51	+49 19 33.0	18.2 N	K A77
C/2012 K8	2014 08 19.55711	17 01 46.84	+49 11 09.0		900
C/2012 K8	2014 08 19.56426	17 01 46.53	+49 11 07.1	17.6 T	900
C/2012 K8	2014 08 19.89352	17 01 31.95	+49 09 23.3	18.4 N	K 970
C/2012 K8	2014 08 19.90068	17 01 31.59	+49 09 21.2	17.9 N	K 970
C/2012 K8	2014 08 21.85108	17 00 07.58	+48 58 59.2	18.2 N	K Z81
C/2012 K8	2014 08 21.89434	17 00 05.70	+48 58 44.6	18.0 N	K Z81
C/2012 K8	2014 08 21.91430	17 00 04.76	+48 58 38.2	17.9 N	K Z81
C/2012 K8	2014 08 23.87885	16 58 44.70	+48 47 58.1	17.8 N	K A77
C/2012 K8	2014 08 23.88776	16 58 44.34	+48 47 55.3	17.8 N	K A77
C/2012 K8	2014 08 23.89744	16 58 44.07	+48 47 51.7	18.5 N	K A77
C/2012 K8	2014 08 25.87622	16 57 27.62	+48 36 56.1	18.4 N	K 585
C/2012 K8	2014 08 25.87693	16 57 27.60	+48 36 55.8	18.3 N	K 585
C/2012 K8	2014 08 25.87764	16 57 27.56	+48 36 55.7	18.0 N	K 585
C/2012 K8	2014 08 25.87835	16 57 27.57	+48 36 55.6	18.0 N	K 585
C/2012 K8	2014 08 25.87906	16 57 27.55	+48 36 54.9	17.9 N	K 585
C/2012 K8	2014 08 25.87977	16 57 27.51	+48 36 55.2	18.0 N	K 585
C/2012 K8	2014 08 25.88047	16 57 27.51	+48 36 54.9	18.1 N	K 585
C/2012 K8	2014 08 25.88118	16 57 27.45	+48 36 54.6	18.2 N	K 585
C/2012 K8	2014 08 25.88189	16 57 27.43	+48 36 54.5	18.2 N	K 585

C/2012 K8	2014 08 25.88260	16 57 27.39	+48 36 54.3	18.3 N	K 585
C/2012 K8	2014 08 25.88331	16 57 27.33	+48 36 53.8	18.2 N	K 585
C/2012 K8	2014 08 25.88402	16 57 27.31	+48 36 53.6	18.2 N	K 585
C/2012 K8	2014 08 25.88473	16 57 27.29	+48 36 53.4	18.3 N	K 585
C/2012 K8	2014 08 25.88543	16 57 27.26	+48 36 53.2	18.2 N	K 585
C/2012 K8	2014 08 25.88614	16 57 27.26	+48 36 53.1	18.2 N	K 585
C/2012 K8	2014 08 25.88685	16 57 27.20	+48 36 52.9	18.1 N	K 585
C/2012 K8	2014 08 27.90433	16 56 13.97	+48 25 34.9	17.9 N	K15
C/2012 K8	2014 08 27.91135	16 56 13.75	+48 25 32.3	18.1 N	K15
C/2012 K8	2014 08 27.91838	16 56 13.56	+48 25 30.2	17.8 N	K15
C/2012 K8	2014 08 27.92541	16 56 13.33	+48 25 27.7	18.2 N	K15
C/2012 K8	2014 08 28.90260	16 55 39.59	+48 19 56.3	17.6 N	B54
C/2012 K8	2014 08 28.90312	16 55 39.50	+48 19 56.7	17.7 N	B54
C/2012 K8	2014 08 28.90339	16 55 39.47	+48 19 57.2	17.9 N	B54
C/2012 K8	2014 08 29.17150	16 55 30.41	+48 18 24.9	18.3 N	K 850
C/2012 K8	2014 08 29.18657	16 55 29.87	+48 18 19.9	18.3 N	K 850
C/2012 K8	2014 08 29.20160	16 55 29.38	+48 18 14.7	18.4 N	K 850
C/2012 K8	2014 08 29.21667	16 55 28.88	+48 18 09.8	18.5 N	K 850
C/2012 K8	2014 08 29.23175	16 55 28.34	+48 18 04.1	18.5 N	K 850
C/2012 K8	2014 08 29.24682	16 55 27.83	+48 17 59.5	18.3 N	K 850
C/2012 K8	2014 08 31.88768	16 54 03.06	+48 02 55.9	18.1 N	C23
C/2012 K8	2014 08 31.89056	16 54 02.71	+48 02 53.9	17.7 N	C23
C/2012 K8	2014 08 31.89489	16 54 02.55	+48 02 51.7	17.1 N	C23
C/2012 K8	2014 09 02.86454	16 53 04.29	+47 51 33.8	18.5 T	A77
C/2012 K8	2014 09 02.87583	16 53 03.97	+47 51 30.0	18.4 T	A77
C/2012 K8	2014 09 03.82763	16 52 37.38	+47 46 00.7	17.9 N	K A77
C/2012 K8	2014 09 03.83499	16 52 37.19	+47 45 58.0	18.0 N	K A77
C/2012 K8	2014 09 03.84362	16 52 36.95	+47 45 55.3	18.0 N	K A77

## C/2012 S1 (ISON)

C/2012 S1	2013 11 08.04301	11 54 11.02	+00 49 53.8	12.2 T	168
C/2012 S1	2013 11 08.05389	11 54 15.57	+00 49 16.5	12.0 T	168
C/2012 S1	2013 11 08.06500	11 54 20.25	+00 48 39.1	11.2 T	168
C/2012 S1	2013 11 08.07045	11 54 22.50	+00 48 21.3	11.7 T	168
C/2012 S1	2013 11 08.08404	11 54 28.20	+00 47 35.0	12.2 T	168
C/2012 S1	2013 11 08.08670	11 54 29.33	+00 47 26.2	12.2 T	168
C/2012 S1	2013 11 08.09476	11 54 32.68	+00 46 59.3	12.0 T	168
C/2012 S1	2013 11 09.04383	12 01 20.98	-00 07 36.8	10.8 T	168
C/2012 S1	2013 11 09.04562	12 01 21.80	-00 07 43.4	11.1 T	168
C/2012 S1	2013 11 09.04910	12 01 23.32	-00 07 55.7	11.1 T	168
C/2012 S1	2013 11 09.05314	12 01 25.10	-00 08 09.7	11.0 T	168

## C/2012 U1 (PANSTARRS)

C/2012 U1	2014 08 21.42414	08 01 01.50	+70 13 49.8		32H06
C/2012 U1	2014 08 21.42574	08 01 01.75	+70 13 50.2		32H06
C/2012 U1	2014 08 21.42734	08 01 02.04	+70 13 49.9	18.3 T	32H06
C/2012 U1	2014 08 25.09912	08 11 50.61	+70 21 24.0	19.2 N	461
C/2012 U1	2014 08 25.10207	08 11 51.09	+70 21 24.8	19.0 N	461
C/2012 U1	2014 08 25.10501	08 11 51.50	+70 21 25.2	19.2 N	461

## C/2012 X1 (LINEAR)

C/2012 X1	2014 04 14.79097	21 02 11.10	-07 09 01.1	8.8 T	349
C/2012 X1	2014 04 14.79223	21 02 11.26	-07 09 02.0		349
C/2012 X1	2014 07 27.71432	22 23 50.69	-43 02 03.7	12.9 N	15Q62



C/2012 X1	2014 07 27.71715	22 23 50.55	-43 02 07.6		15Q62
C/2012 X1	2014 08 03.45613	22 18 12.07	-45 17 13.4	13.2 N	30D90
C/2012 X1	2014 08 03.45951	22 18 11.90	-45 17 16.9	13.2 N	30D90
C/2012 X1	2014 08 03.46120	22 18 11.80	-45 17 19.5	13.2 N	30D90
C/2012 X1	2014 08 05.47291	22 16 20.25	-45 53 45.7	13.4 N	30D90
C/2012 X1	2014 08 05.47543	22 16 20.10	-45 53 48.2	13.4 N	30D90
C/2012 X1	2014 08 05.47881	22 16 19.90	-45 53 51.8	13.4 N	30D90
C/2012 X1	2014 08 07.44552	22 14 27.36	-46 27 38.1	13.4 N	30D90
C/2012 X1	2014 08 07.44889	22 14 27.16	-46 27 41.5	13.4 N	30D90
C/2012 X1	2014 08 07.45225	22 14 26.98	-46 27 45.3	13.4 N	30D90
C/2012 X1	2014 08 10.43298	22 11 31.13	-47 15 24.9	14.4 N	Q68
C/2012 X1	2014 08 10.50056	22 11 27.01	-47 16 27.7	14.3 N	Q68
C/2012 X1	2014 08 10.62332	22 11 19.35	-47 18 20.1	14.3 N	Q68
C/2012 X1	2014 08 13.07530	22 08 51.27	-47 54 08.7	13.3 N	J24
C/2012 X1	2014 08 13.08491	22 08 50.68	-47 54 16.7	13.4 N	J24
C/2012 X1	2014 08 13.09443	22 08 50.04	-47 54 24.3	13.4 N	J24
C/2012 X1	2014 08 13.40627	22 08 31.43	-47 58 39.5	13.7 N	30D90
C/2012 X1	2014 08 13.40881	22 08 31.24	-47 58 41.2	13.7 N	30D90
C/2012 X1	2014 08 13.41302	22 08 30.99	-47 58 44.1	13.7 N	30D90
C/2012 X1	2014 08 16.15717	22 05 42.73	-48 34 53.0	14.3 T	Y00
C/2012 X1	2014 08 16.16811	22 05 41.95	-48 35 02.0	14.3 T	Y00
C/2012 X1	2014 08 16.17904	22 05 41.22	-48 35 10.5	14.4 T	Y00
C/2012 X1	2014 08 17.38885	22 04 27.59	-48 49 50.5	14.6 N	Q68
C/2012 X1	2014 08 17.40745	22 04 26.42	-48 50 03.5	14.6 N	Q68
C/2012 X1	2014 08 17.49623	22 04 20.89	-48 51 07.6	13.5 N	30D90
C/2012 X1	2014 08 17.49961	22 04 20.68	-48 51 10.0	13.5 N	30D90
C/2012 X1	2014 08 17.50297	22 04 20.48	-48 51 12.8	13.5 N	30D90
C/2012 X1	2014 08 20.01135	22 01 46.85	-49 19 21.2	15.4 T	Y00
C/2012 X1	2014 08 20.02058	22 01 46.40	-49 19 28.0	15.1 T	Y00
C/2012 X1	2014 08 20.02593	22 01 46.16	-49 19 32.1	14.9 T	Y00
C/2012 X1	2014 08 20.41699	22 01 22.87	-49 23 35.8	13.6 N	30D90
C/2012 X1	2014 08 20.42120	22 01 22.62	-49 23 38.4	13.6 N	30D90
C/2012 X1	2014 08 20.42374	22 01 22.47	-49 23 40.0	13.6 N	30D90
C/2012 X1	2014 08 22.39736	21 59 23.74	-49 43 17.9	13.8 N	30D90
C/2012 X1	2014 08 22.40073	21 59 23.53	-49 43 19.9	13.8 N	30D90
C/2012 X1	2014 08 22.40326	21 59 23.37	-49 43 21.5	13.8 N	30D90
C/2012 X1	2014 08 24.38260	21 57 26.33	-50 01 12.3	14.6 N	Q68
C/2012 X1	2014 08 24.40101	21 57 25.25	-50 01 22.1	14.7 N	Q68
C/2012 X1	2014 08 24.76876	21 57 03.10	-50 04 29.3	13.9 N	30D90
C/2012 X1	2014 08 24.77045	21 57 03.01	-50 04 30.1	13.9 N	30D90
C/2012 X1	2014 08 24.77299	21 57 02.85	-50 04 31.3	13.9 N	30D90
C/2012 X1	2014 08 26.41811	21 55 28.78	-50 17 41.6	13.9 N	30D90
C/2012 X1	2014 08 26.42064	21 55 28.62	-50 17 42.9	13.9 N	30D90
C/2012 X1	2014 08 26.42485	21 55 28.35	-50 17 44.8	13.9 N	30D90
C/2012 X1	2014 08 28.41799	21 53 36.71	-50 32 04.9	14.0 N	30D90
C/2012 X1	2014 08 28.42137	21 53 36.52	-50 32 06.4	14.0 N	30D90
C/2012 X1	2014 08 28.42473	21 53 36.33	-50 32 07.7	14.0 N	30D90
C/2012 X1	2014 08 30.41818	21 51 48.62	-50 44 44.3	14.0 N	30D90
C/2012 X1	2014 08 30.42071	21 51 48.48	-50 44 45.4	14.0 N	30D90
C/2012 X1	2014 08 30.42492	21 51 48.26	-50 44 46.9	14.0 N	30D90

## C/2013 A1 (Siding Spring)

C/2013 A1	2014 07 27.71939	03 22 19.43	-36 45 04.4	13.4 N	15Q62
C/2013 A1	2014 07 27.72102	03 22 19.41	-36 45 07.8		15Q62
C/2013 A1	2014 08 03.66459	03 18 18.34	-41 31 00.8	13.6 N	30D90
C/2013 A1	2014 08 03.66799	03 18 18.15	-41 31 10.5	13.6 N	30D90
C/2013 A1	2014 08 03.66968	03 18 18.07	-41 31 15.2	13.6 N	30D90
C/2013 A1	2014 08 05.75083	03 16 14.85	-43 13 08.8	13.1 N	31Q62
C/2013 A1	2014 08 05.75162	03 16 14.85	-43 13 11.1	13.2 N	31Q62
C/2013 A1	2014 08 05.75243	03 16 14.80	-43 13 13.7	13.1 N	31Q62
C/2013 A1	2014 08 06.63914	03 15 13.38	-43 59 04.4	13.2 N	30D90
C/2013 A1	2014 08 06.64168	03 15 13.18	-43 59 12.5	13.2 N	30D90
C/2013 A1	2014 08 06.64590	03 15 12.86	-43 59 26.0	13.2 N	30D90
C/2013 A1	2014 08 10.62062	03 09 08.60	-47 45 20.7	13.4 N	30D90
C/2013 A1	2014 08 10.62211	03 09 08.42	-47 45 26.2	13.4 N	30D90
C/2013 A1	2014 08 10.62410	03 09 08.20	-47 45 33.7	13.4 N	30D90
C/2013 A1	2014 08 11.20801	03 08 00.09	-48 21 39.7	14.8 N	844
C/2013 A1	2014 08 11.21535	03 07 59.20	-48 22 08.0	15.2 N	844
C/2013 A1	2014 08 11.22262	03 07 58.26	-48 22 34.8	14.9 N	844
C/2013 A1	2014 08 12.24250	03 05 48.00	-49 27 35.9	12.9 N	W96
C/2013 A1	2014 08 12.27605	03 05 43.47	-49 29 46.6	13.0 N	W96
C/2013 A1	2014 08 13.60233	03 02 30.48	-50 57 43.8	13.1 N	30D90
C/2013 A1	2014 08 13.60433	03 02 30.16	-50 57 52.1	13.1 N	30D90
C/2013 A1	2014 08 13.60630	03 02 29.82	-50 58 00.2	13.1 N	30D90
C/2013 A1	2014 08 16.24764	02 54 27.12	-54 05 35.4	13.7 N	W96
C/2013 A1	2014 08 16.27069	02 54 22.13	-54 07 18.3	13.7 N	W96
C/2013 A1	2014 08 16.29281	02 54 17.31	-54 08 57.2	13.7 N	W96
C/2013 A1	2014 08 16.31246	02 54 13.03	-54 10 25.3	13.7 N	W96
C/2013 A1	2014 08 16.32218	02 54 10.94	-54 11 08.5	13.7 N	W96
C/2013 A1	2014 08 16.35420	02 54 03.91	-54 13 31.8	13.7 N	W96
C/2013 A1	2014 08 16.37486	02 53 59.40	-54 15 03.7	13.8 N	W96
C/2013 A1	2014 08 16.39576	02 53 54.76	-54 16 37.1	13.7 N	W96
C/2013 A1	2014 08 16.40767	02 53 52.12	-54 17 30.4	13.7 N	W96
C/2013 A1	2014 08 17.12644	02 51 10.64	-55 11 26.7	12.9 N	I39
C/2013 A1	2014 08 17.14642	02 51 05.99	-55 12 58.0	12.9 N	I39
C/2013 A1	2014 08 17.15979	02 51 03.09	-55 14 01.1	12.9 N	I39
C/2013 A1	2014 08 17.29162	02 50 31.45	-55 24 05.2	13.7 N	W96
C/2013 A1	2014 08 17.29464	02 50 30.69	-55 24 18.9	13.7 N	W96
C/2013 A1	2014 08 17.29788	02 50 29.95	-55 24 34.2	13.7 N	W96
C/2013 A1	2014 08 17.30090	02 50 29.19	-55 24 47.6	13.7 N	W96
C/2013 A1	2014 08 17.30392	02 50 28.49	-55 25 01.5	13.7 N	W96
C/2013 A1	2014 08 17.30705	02 50 27.77	-55 25 15.9	13.8 N	W96
C/2013 A1	2014 08 17.31347	02 50 26.14	-55 25 45.9	13.7 N	W96
C/2013 A1	2014 08 17.31659	02 50 25.34	-55 26 00.1	13.7 N	W96
C/2013 A1	2014 08 17.31981	02 50 24.55	-55 26 14.6	13.7 N	W96
C/2013 A1	2014 08 17.32284	02 50 23.82	-55 26 28.5	13.7 N	W96
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C/2013 A1	2014 08 17.33543	02 50 20.77	-55 27 26.8	13.7 N	W96
C/2013 A1	2014 08 17.33847	02 50 19.97	-55 27 40.9	13.7 N	W96
C/2013 A1	2014 08 17.34180	02 50 19.19	-55 27 56.1	13.7 N	W96
C/2013 A1	2014 08 17.34483	02 50 18.39	-55 28 09.5	13.7 N	W96
C/2013 A1	2014 08 17.34785	02 50 17.66	-55 28 23.8	13.6 N	W96
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C/2013 A1	2014 08 17.35713	02 50 15.34	-55 29 06.0	13.7 N	W96



C/2013 A1	2014 08 17.36077	02 50 14.46	-55 29 23.3	13.7 N	W96
C/2013 A1	2014 08 17.36438	02 50 13.58	-55 29 39.5	13.7 N	W96
C/2013 A1	2014 08 17.36760	02 50 12.81	-55 29 54.3	13.7 N	W96
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C/2013 A1	2014 08 17.37363	02 50 11.28	-55 30 22.3	13.7 N	W96
C/2013 A1	2014 08 17.37995	02 50 09.71	-55 30 51.1	13.7 N	W96
C/2013 A1	2014 08 17.38318	02 50 08.90	-55 31 05.9	13.7 N	W96
C/2013 A1	2014 08 17.38630	02 50 08.17	-55 31 19.9	13.8 N	W96
C/2013 A1	2014 08 17.38933	02 50 07.40	-55 31 34.6	13.7 N	W96
C/2013 A1	2014 08 17.39266	02 50 06.57	-55 31 49.2	13.8 N	W96
C/2013 A1	2014 08 17.39876	02 50 05.06	-55 32 18.0	13.7 N	W96
C/2013 A1	2014 08 17.40210	02 50 04.25	-55 32 32.9	13.7 N	W96
C/2013 A1	2014 08 18.26855	02 46 22.92	-56 39 38.6	13.7 N	W96
C/2013 A1	2014 08 18.27175	02 46 22.04	-56 39 53.8	13.7 N	W96
C/2013 A1	2014 08 18.27510	02 46 21.11	-56 40 09.6	13.7 N	W96
C/2013 A1	2014 08 18.27846	02 46 20.24	-56 40 24.7	13.7 N	W96
C/2013 A1	2014 08 18.28182	02 46 19.30	-56 40 41.1	13.7 N	W96
C/2013 A1	2014 08 18.28518	02 46 18.43	-56 40 56.9	13.7 N	W96
C/2013 A1	2014 08 18.29150	02 46 16.69	-56 41 27.0	13.7 N	W96
C/2013 A1	2014 08 18.29486	02 46 15.75	-56 41 42.6	13.7 N	W96
C/2013 A1	2014 08 18.29822	02 46 14.83	-56 41 58.5	13.7 N	W96
C/2013 A1	2014 08 18.30160	02 46 13.85	-56 42 14.6	13.7 N	W96
C/2013 A1	2014 08 18.30497	02 46 12.90	-56 42 31.1	13.7 N	W96
C/2013 A1	2014 08 18.30835	02 46 12.01	-56 42 46.4	13.7 N	W96
C/2013 A1	2014 08 18.31467	02 46 10.31	-56 43 16.2	13.7 N	W96
C/2013 A1	2014 08 18.31805	02 46 09.34	-56 43 32.8	13.7 N	W96
C/2013 A1	2014 08 18.32142	02 46 08.45	-56 43 48.2	13.7 N	W96
C/2013 A1	2014 08 18.32479	02 46 07.44	-56 44 04.4	13.7 N	W96
C/2013 A1	2014 08 18.32817	02 46 06.44	-56 44 20.2	13.7 N	W96
C/2013 A1	2014 08 18.33466	02 46 04.67	-56 44 51.4	13.7 N	W96
C/2013 A1	2014 08 18.33803	02 46 03.77	-56 45 07.2	13.7 N	W96
C/2013 A1	2014 08 18.34140	02 46 02.81	-56 45 23.0	13.7 N	W96
C/2013 A1	2014 08 18.34478	02 46 01.88	-56 45 38.9	13.7 N	W96
C/2013 A1	2014 08 18.34815	02 46 01.01	-56 45 54.2	13.7 N	W96
C/2013 A1	2014 08 18.35450	02 45 59.17	-56 46 25.3	13.7 N	W96
C/2013 A1	2014 08 18.35788	02 45 58.18	-56 46 40.3	13.7 N	W96
C/2013 A1	2014 08 18.36125	02 45 57.27	-56 46 56.7	13.7 N	W96
C/2013 A1	2014 08 18.36462	02 45 56.38	-56 47 12.2	13.7 N	W96
C/2013 A1	2014 08 18.36968	02 45 55.09	-56 47 36.2	13.7 N	W96
C/2013 A1	2014 08 18.60844	02 44 49.36	-57 06 20.0	13.1 N	30D90
C/2013 A1	2014 08 18.61043	02 44 48.80	-57 06 29.5	13.1 N	30D90
C/2013 A1	2014 08 18.61242	02 44 48.22	-57 06 39.0	13.1 N	30D90
C/2013 A1	2014 08 18.65362	02 44 36.25	-57 09 56.1	14.4 N	474
C/2013 A1	2014 08 18.65460	02 44 35.97	-57 10 00.8	13.8 N	474
C/2013 A1	2014 08 18.65560	02 44 35.69	-57 10 05.6	13.6 N	474
C/2013 A1	2014 08 18.65659	02 44 35.40	-57 10 10.0	13.4 N	474
C/2013 A1	2014 08 18.65758	02 44 35.14	-57 10 15.1	13.8 N	474
C/2013 A1	2014 08 20.55490	02 34 29.05	-59 43 39.7	13.6 N	; Q62
C/2013 A1	2014 08 20.55576	02 34 28.75	-59 43 44.4	13.6 N	; Q62
C/2013 A1	2014 08 20.55663	02 34 28.45	-59 43 49.1	13.7 N	; Q62
C/2013 A1	2014 08 20.55750	02 34 28.21	-59 43 52.9	13.7 N	; Q62
C/2013 A1	2014 08 20.55838	02 34 27.82	-59 43 57.0	13.7 N	; Q62
C/2013 A1	2014 08 20.65569	02 33 52.26	-59 52 02.3	14.3 N	E07

C/2013 A1	2014 08 20.65705	02 33 51.78	-59 52 09.1	14.0 N	E07
C/2013 A1	2014 08 21.82407	02 26 10.55	-61 29 33.3	12.5 N	30D90
C/2013 A1	2014 08 21.82605	02 26 09.69	-61 29 43.2	12.5 N	30D90
C/2013 A1	2014 08 21.82804	02 26 08.89	-61 29 53.1	12.5 N	30D90
C/2013 A1	2014 08 22.24451	02 23 07.20	-62 05 01.1	13.7 N	W96
C/2013 A1	2014 08 22.24755	02 23 05.80	-62 05 16.2	13.6 N	W96
C/2013 A1	2014 08 22.25148	02 23 04.04	-62 05 36.5	13.6 N	W96
C/2013 A1	2014 08 22.25497	02 23 02.47	-62 05 54.1	13.7 N	W96
C/2013 A1	2014 08 22.25892	02 23 00.64	-62 06 14.5	13.6 N	W96
C/2013 A1	2014 08 22.26561	02 22 57.58	-62 06 48.6	13.6 N	W96
C/2013 A1	2014 08 22.26920	02 22 55.94	-62 07 06.9	13.6 N	W96
C/2013 A1	2014 08 22.27281	02 22 54.33	-62 07 25.7	13.6 N	W96
C/2013 A1	2014 08 22.27630	02 22 52.68	-62 07 43.2	13.6 N	W96
C/2013 A1	2014 08 22.27968	02 22 51.13	-62 08 00.1	13.6 N	W96
C/2013 A1	2014 08 22.28625	02 22 48.08	-62 08 33.9	13.6 N	W96
C/2013 A1	2014 08 22.28975	02 22 46.52	-62 08 51.7	13.6 N	W96
C/2013 A1	2014 08 22.29336	02 22 44.78	-62 09 10.0	13.6 N	W96
C/2013 A1	2014 08 22.29686	02 22 43.23	-62 09 27.6	13.6 N	W96
C/2013 A1	2014 08 22.30047	02 22 41.58	-62 09 46.3	13.6 N	W96
C/2013 A1	2014 08 22.30719	02 22 38.47	-62 10 20.7	13.6 N	W96
C/2013 A1	2014 08 22.31068	02 22 36.87	-62 10 38.8	13.6 N	W96
C/2013 A1	2014 08 22.31417	02 22 35.31	-62 10 56.1	13.6 N	W96
C/2013 A1	2014 08 22.31778	02 22 33.60	-62 11 14.0	13.6 N	W96
C/2013 A1	2014 08 22.32116	02 22 31.99	-62 11 31.6	13.6 N	W96
C/2013 A1	2014 08 22.32464	02 22 30.41	-62 11 49.5	13.6 N	W96
C/2013 A1	2014 08 22.33135	02 22 27.37	-62 12 23.6	13.6 N	W96
C/2013 A1	2014 08 22.33474	02 22 25.71	-62 12 40.9	13.6 N	W96
C/2013 A1	2014 08 22.33810	02 22 24.11	-62 12 57.6	13.6 N	W96
C/2013 A1	2014 08 24.62995	02 01 50.28	-65 27 48.1	12.5 N	31Q62
C/2013 A1	2014 08 24.63075	02 01 49.79	-65 27 52.1	12.5 N	31Q62
C/2013 A1	2014 08 24.63155	02 01 49.26	-65 27 56.5	12.5 N	31Q62
C/2013 A1	2014 08 24.77835	02 00 14.69	-65 40 24.4	13.6 N	Q68
C/2013 A1	2014 08 24.78802	02 00 08.37	-65 41 13.6	13.6 N	Q68
C/2013 A1	2014 08 24.80231	01 59 59.03	-65 42 26.0	13.6 N	Q68
C/2013 A1	2014 08 24.80242	01 59 59.09	-65 42 26.9	13.2 N	30D90
C/2013 A1	2014 08 24.80440	01 59 57.88	-65 42 36.8	13.2 N	30D90
C/2013 A1	2014 08 24.80639	01 59 56.55	-65 42 46.9	13.2 N	30D90
C/2013 A1	2014 08 27.36948	01 26 16.41	-69 13 54.0	13.4 N	W96
C/2013 A1	2014 08 27.38257	01 26 03.83	-69 14 55.5	13.4 N	W96
C/2013 A1	2014 08 27.39553	01 25 51.35	-69 15 56.3	13.4 N	W96
C/2013 A1	2014 08 27.45245	01 24 59.24	-69 20 14.5	12.2 N	30D90
C/2013 A1	2014 08 27.45398	01 24 57.77	-69 20 21.7	12.2 N	30D90
C/2013 A1	2014 08 27.45551	01 24 56.31	-69 20 28.9	12.2 N	30D90
C/2013 A1	2014 08 28.46464	01 07 30.23	-70 37 00.8	13.4 N	Q68
C/2013 A1	2014 08 28.46877	01 07 25.64	-70 37 18.8	13.4 N	Q68
C/2013 A1	2014 08 28.47532	01 07 18.36	-70 37 47.9	13.5 N	Q68
C/2013 A1	2014 08 28.47945	01 07 13.67	-70 38 06.2	13.5 N	Q68
C/2013 A1	2014 08 29.29932	00 50 58.89	-71 35 43.4	13.4 N	W96
C/2013 A1	2014 08 29.30562	00 50 50.91	-71 36 08.4	13.4 N	W96
C/2013 A1	2014 08 29.31191	00 50 42.84	-71 36 33.1	13.4 N	W96
C/2013 A1	2014 08 29.45140	00 47 47.08	-71 45 41.7	14.5 N	E16
C/2013 A1	2014 08 29.45301	00 47 45.00	-71 45 48.8	13.8 N	E16
C/2013 A1	2014 08 29.53991	00 45 52.60	-71 51 33.6	14.8 N	25Q62



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C/2013 A1	2014 08 29.54126	00 45 50.87	-71 51 39.0	15.0 N	25Q62
C/2013 A1	2014 08 30.44133	00 25 07.25	-72 46 23.7	12.7 N	30D90
C/2013 A1	2014 08 30.44249	00 25 05.46	-72 46 27.6	12.7 N	30D90
C/2013 A1	2014 08 30.44361	00 25 03.92	-72 46 31.0	12.7 N	30D90
C/2013 A1	2014 08 31.30754	00 02 49.23	-73 31 00.2	12.9 T	K I47
C/2013 A1	2014 08 31.31449	00 02 37.76	-73 31 20.0	12.9 T	K I47
C/2013 A1	2014 08 31.33037	00 02 11.31	-73 32 02.4	12.9 T	K I47
C/2013 A1	2014 09 03.25310	22 33 49.69	-74 40 30.9	13.4 N	W96
C/2013 A1	2014 09 03.31044	22 31 58.54	-74 40 22.7	13.3 N	W96
C/2013 A1	2014 09 05.24084	21 31 41.70	-74 03 06.5	13.4 N	W96
C/2013 A1	2014 09 05.24436	21 31 35.36	-74 02 58.8	13.4 N	W96
C/2013 A1	2014 09 05.24806	21 31 28.71	-74 02 51.1	13.4 N	W96

## P/2013 G1 (Kowalski)

P/2013 G1	2014 08 14.90709	21 07 29.80	-08 43 43.3	17.3 T	Y00
P/2013 G1	2014 08 14.91821	21 07 29.47	-08 43 45.5	17.2 T	Y00
P/2013 G1	2014 08 14.93074	21 07 29.15	-08 43 47.6	17.0 T	Y00
P/2013 G1	2014 08 17.89041	21 05 59.02	-08 52 24.0	17.9 N	C47
P/2013 G1	2014 08 17.89299	21 05 58.92	-08 52 24.4	17.3 N	C47
P/2013 G1	2014 08 17.89557	21 05 58.87	-08 52 25.0	17.6 N	C47
P/2013 G1	2014 08 17.89816	21 05 58.78	-08 52 25.3	17.2 N	C47
P/2013 G1	2014 08 17.90074	21 05 58.70	-08 52 26.1	17.4 N	C47
P/2013 G1	2014 08 17.90369	21 05 58.60	-08 52 26.4	17.5 N	C47
P/2013 G1	2014 08 18.48600	21 05 41.21	-08 54 03.9	17.1 N	474
P/2013 G1	2014 08 18.48800	21 05 41.14	-08 54 04.3	17.2 N	474
P/2013 G1	2014 08 18.48999	21 05 41.08	-08 54 04.6	17.2 N	474
P/2013 G1	2014 08 18.49199	21 05 41.02	-08 54 04.9	17.4 N	474
P/2013 G1	2014 08 18.49399	21 05 40.96	-08 54 05.3	17.3 N	474
P/2013 G1	2014 08 22.32957	21 03 49.86	-09 05 27.2	17.2 T	H45
P/2013 G1	2014 08 22.33068	21 03 49.82	-09 05 27.6	17.2 T	H45
P/2013 G1	2014 08 22.33343	21 03 49.74	-09 05 28.2	17.1 T	H45
P/2013 G1	2014 08 22.33593	21 03 49.65	-09 05 28.9	17.1 T	H45
P/2013 G1	2014 08 22.90166	21 03 34.16	-09 07 06.7	17.8 T	Y00
P/2013 G1	2014 08 22.91225	21 03 33.92	-09 07 09.0	17.8 T	Y00
P/2013 G1	2014 08 22.92190	21 03 33.70	-09 07 10.9	17.9 T	Y00
P/2013 G1	2014 08 25.94110	21 02 11.81	-09 16 09.3	16.8 N	585
P/2013 G1	2014 08 25.94180	21 02 11.79	-09 16 09.2	16.8 N	585
P/2013 G1	2014 08 25.94322	21 02 11.82	-09 16 09.9	16.9 N	585
P/2013 G1	2014 08 25.94393	21 02 11.77	-09 16 09.6	16.7 N	585
P/2013 G1	2014 08 25.94464	21 02 11.72	-09 16 10.0	17.0 N	585
P/2013 G1	2014 08 25.94535	21 02 11.74	-09 16 10.9	16.9 N	585
P/2013 G1	2014 08 25.94684	21 02 11.68	-09 16 10.4	16.5 N	585
P/2013 G1	2014 08 25.94756	21 02 11.68	-09 16 11.1	16.9 N	585
P/2013 G1	2014 08 25.94827	21 02 11.61	-09 16 10.5	16.8 N	585
P/2013 G1	2014 08 25.94898	21 02 11.62	-09 16 10.3	16.8 N	585
P/2013 G1	2014 08 25.94969	21 02 11.63	-09 16 11.3	16.7 N	585
P/2013 G1	2014 08 25.95042	21 02 11.59	-09 16 11.0	16.9 N	585
P/2013 G1	2014 08 25.95114	21 02 11.58	-09 16 10.4	17.0 N	585
P/2013 G1	2014 08 25.95185	21 02 11.55	-09 16 11.0	16.7 N	585
P/2013 G1	2014 08 25.95255	21 02 11.54	-09 16 11.5	17.0 N	585
P/2013 G1	2014 08 25.95326	21 02 11.51	-09 16 11.8	16.8 N	585
P/2013 G1	2014 08 26.37851	21 02 00.506	-09 17 25.54	17.7 T	F51
P/2013 G1	2014 08 26.39043	21 02 00.178	-09 17 27.69	17.7 T	F51

P/2013 G1	2014 08 26.40233	21 01 59.859	-09 17 29.76	17.7 T	F51
P/2013 G1	2014 08 26.41422	21 01 59.528	-09 17 31.87	17.7 T	F51
P/2013 G1	2014 08 26.90687	21 01 47.09	-09 18 56.8	17.7 T	Y00
P/2013 G1	2014 08 26.91622	21 01 46.77	-09 18 58.8	17.7 T	Y00
P/2013 G1	2014 08 26.92606	21 01 46.55	-09 19 00.8	17.7 T	Y00
P/2013 G1	2014 08 27.38309	21 01 34.771	-09 20 23.26	18.0 T	F51
P/2013 G1	2014 08 27.39672	21 01 34.406	-09 20 25.64	18.0 T	F51
P/2013 G1	2014 08 27.41032	21 01 34.048	-09 20 28.04	18.0 T	F51
P/2013 G1	2014 08 27.42396	21 01 33.687	-09 20 30.45	17.9 T	F51
P/2013 G1	2014 09 02.19769	20 59 18.99	-09 37 15.8	17.0 T	703
P/2013 G1	2014 09 02.20495	20 59 18.83	-09 37 17.1	17.2 T	703
P/2013 G1	2014 09 02.21221	20 59 18.61	-09 37 19.6	16.9 T	703
P/2013 G1	2014 09 02.21948	20 59 18.51	-09 37 20.7	16.9 T	703

## C/2013 G3 (PANSTARRS)

C/2013 G3	2014 06 26.94708	15 39 28.22	+35 18 41.1	17.0 T	3 095
C/2013 G3	2014 06 26.94802	15 39 28.20	+35 18 41.1	17.4 N	3 095
C/2013 G3	2014 06 26.95006	15 39 28.16	+35 18 41.4		3 095
C/2013 G3	2014 06 26.95139	15 39 28.13	+35 18 41.5		3 095
C/2013 G3	2014 06 26.95263	15 39 28.08	+35 18 42.0		3 095
C/2013 G3	2014 06 26.95354	15 39 28.06	+35 18 41.6		3 095
C/2013 G3	2014 06 26.95444	15 39 28.07	+35 18 41.9		3 095
C/2013 G3	2014 07 14.88406	15 35 10.59	+35 21 18.1	16.9 T	17 189
C/2013 G3	2014 07 14.88538	15 35 10.61	+35 21 17.3	17.3 N	17 189
C/2013 G3	2014 08 11.86846	15 39 41.37	+34 00 16.7	17.7 N	K 585
C/2013 G3	2014 08 11.86916	15 39 41.36	+34 00 16.9	17.8 N	K 585
C/2013 G3	2014 08 11.86987	15 39 41.44	+34 00 16.7	17.5 N	K 585
C/2013 G3	2014 08 11.87058	15 39 41.38	+34 00 16.6	17.6 N	K 585
C/2013 G3	2014 08 11.87129	15 39 41.49	+34 00 16.5	17.5 N	K 585
C/2013 G3	2014 08 11.87200	15 39 41.52	+34 00 16.4	17.4 N	K 585
C/2013 G3	2014 08 11.87271	15 39 41.53	+34 00 16.4	17.6 N	K 585
C/2013 G3	2014 08 11.87342	15 39 41.53	+34 00 15.9	17.6 N	K 585
C/2013 G3	2014 08 11.87484	15 39 41.53	+34 00 15.3	17.7 N	K 585
C/2013 G3	2014 08 11.87555	15 39 41.54	+34 00 15.2	17.6 N	K 585
C/2013 G3	2014 08 11.87590	15 39 41.53	+34 00 15.1	17.5 N	K 585
C/2013 G3	2014 08 15.88837	15 41 28.31	+33 43 42.3	16.8 N	KA77
C/2013 G3	2014 08 15.89562	15 41 28.52	+33 43 40.6	17.4 N	KA77
C/2013 G3	2014 08 15.90298	15 41 28.72	+33 43 38.6	17.4 N	KA77
C/2013 G3	2014 08 17.88882	15 42 27.58	+33 35 11.4	17.5 N	KA77
C/2013 G3	2014 08 17.89630	15 42 27.82	+33 35 09.5	17.5 N	KA77
C/2013 G3	2014 08 17.90359	15 42 28.04	+33 35 07.5	17.5 N	KA77
C/2013 G3	2014 08 18.84720	15 42 57.35	+33 31 03.3	17.7 N	K 585
C/2013 G3	2014 08 18.84878	15 42 57.44	+33 31 03.0	17.8 N	K 585
C/2013 G3	2014 08 18.84949	15 42 57.45	+33 31 03.1	17.8 N	K 585
C/2013 G3	2014 08 18.85020	15 42 57.45	+33 31 02.7	17.9 N	K 585
C/2013 G3	2014 08 18.85091	15 42 57.48	+33 31 02.5	17.5 N	K 585
C/2013 G3	2014 08 18.85162	15 42 57.52	+33 31 02.2	17.6 N	K 585
C/2013 G3	2014 08 18.85233	15 42 57.55	+33 31 02.1	17.7 N	K 585
C/2013 G3	2014 08 18.85304	15 42 57.58	+33 31 02.1	17.7 N	K 585
C/2013 G3	2014 08 18.85374	15 42 57.59	+33 31 02.0	17.7 N	K 585
C/2013 G3	2014 08 18.85449	15 42 57.62	+33 31 01.8	17.6 N	K 585
C/2013 G3	2014 08 18.85522	15 42 57.61	+33 31 01.5	17.6 N	K 585
C/2013 G3	2014 08 18.85596	15 42 57.65	+33 31 01.3	17.6 N	K 585



C/2013 G3	2014 08 18.85667	15 42 57.67	+33 31 01.0	17.8 N	K 585
C/2013 G3	2014 08 19.49517	15 43 18.06	+33 28 15.5		900
C/2013 G3	2014 08 19.51256	15 43 18.61	+33 28 10.5		900
C/2013 G3	2014 08 19.51971	15 43 18.84	+33 28 08.0	17.4 T	900
C/2013 G3	2014 08 19.90980	15 43 31.53	+33 26 25.8	17.8 N	K 970
C/2013 G3	2014 08 19.91545	15 43 31.68	+33 26 24.6	17.9 N	K 970
C/2013 G3	2014 08 25.83119	15 47 01.91	+33 00 03.4	17.7 N	K 160
C/2013 G3	2014 08 25.83394	15 47 02.03	+33 00 03.4	17.8 N	K 160
C/2013 G3	2014 08 25.83668	15 47 02.09	+33 00 03.3		K 160
C/2013 G3	2014 08 25.85687	15 47 02.88	+32 59 55.9	17.7 N	K 585
C/2013 G3	2014 08 25.85758	15 47 02.91	+32 59 56.6	17.8 N	K 585
C/2013 G3	2014 08 25.85828	15 47 02.93	+32 59 55.5	17.6 N	K 585
C/2013 G3	2014 08 25.85900	15 47 02.96	+32 59 55.5	17.5 N	K 585
C/2013 G3	2014 08 25.85970	15 47 02.99	+32 59 56.0	17.5 N	K 585
C/2013 G3	2014 08 25.86041	15 47 03.02	+32 59 55.5	17.5 N	K 585
C/2013 G3	2014 08 25.86112	15 47 03.05	+32 59 54.9	17.4 N	K 585
C/2013 G3	2014 08 25.86183	15 47 03.08	+32 59 54.8	17.4 N	K 585
C/2013 G3	2014 08 25.86254	15 47 03.08	+32 59 54.6	17.5 N	K 585
C/2013 G3	2014 08 25.86325	15 47 03.12	+32 59 54.3	17.4 N	K 585
C/2013 G3	2014 08 25.86396	15 47 03.13	+32 59 53.8	17.4 N	K 585
C/2013 G3	2014 08 25.86467	15 47 03.18	+32 59 54.1	17.5 N	K 585
C/2013 G3	2014 08 25.86539	15 47 03.21	+32 59 54.0	17.4 N	K 585
C/2013 G3	2014 08 25.86612	15 47 03.25	+32 59 53.7	17.5 N	K 585
C/2013 G3	2014 08 25.86684	15 47 03.27	+32 59 53.5	17.4 N	K 585
C/2013 G3	2014 08 27.86948	15 48 22.22	+32 50 49.4	17.2 N	K15
C/2013 G3	2014 08 27.87652	15 48 22.45	+32 50 46.6	17.4 N	K15
C/2013 G3	2014 08 27.88354	15 48 22.72	+32 50 44.8	17.8 N	K15
C/2013 G3	2014 08 28.80554	15 49 00.33	+32 46 33.1	17.7 N	K 160
C/2013 G3	2014 08 28.80826	15 49 00.44	+32 46 32.2	17.7 N	K 160
C/2013 G3	2014 08 28.81099	15 49 00.47	+32 46 31.0	17.7 N	K 160
C/2013 G3	2014 08 28.88968	15 49 03.75	+32 46 09.6	17.3 N	B54
C/2013 G3	2014 08 28.89049	15 49 03.79	+32 46 09.4	17.3 N	B54
C/2013 G3	2014 08 28.91331	15 49 04.81	+32 46 01.9	17.7 N	I81
C/2013 G3	2014 08 28.91475	15 49 04.84	+32 46 01.3	17.1 N	I81
C/2013 G3	2014 08 28.91759	15 49 04.97	+32 46 00.9	17.5 N	I81
C/2013 G3	2014 08 28.91902	15 49 04.99	+32 46 00.5	17.7 N	I81
C/2013 G3	2014 08 29.83000	15 49 43.01	+32 41 51.0	17.5 N	K A77
C/2013 G3	2014 08 29.83676	15 49 43.26	+32 41 48.5	17.6 N	K A77
C/2013 G3	2014 08 29.84294	15 49 43.47	+32 41 44.4	17.9 N	K A77
C/2013 G3	2014 09 02.80450	15 52 37.69	+32 23 37.4	17.6 N	K 160
C/2013 G3	2014 09 02.80701	15 52 37.80	+32 23 36.7	17.7 N	K 160
C/2013 G3	2014 09 02.80951	15 52 37.93	+32 23 35.7	17.8 N	K 160
<b>C/2013 G7 (McNaught)</b>					
C/2013 G7	2012 05 21.25429	16 08 46.31	+14 20 09.0	20.1 T	691
C/2013 G7	2012 05 21.27205	16 08 45.48	+14 20 07.3	20.2 T	691
C/2013 G7	2012 05 21.28982	16 08 44.59	+14 20 05.4	20.3 T	691
<b>C/2013 G8 (PANSTARRS)</b>					
C/2013 G8	2014 06 07.42807	23 10 36.88	+23 21 24.6		32H06
C/2013 G8	2014 06 07.43126	23 10 36.97	+23 21 25.4	18.6 T	32H06
C/2013 G8	2014 08 24.29883	23 13 45.53	+27 58 09.4		32H06
C/2013 G8	2014 08 24.30113	23 13 45.49	+27 58 09.4		32H06
C/2013 G8	2014 08 24.30343	23 13 45.48	+27 58 08.9	18.5 T	32H06

<b>C/2013 G9 (Tenagra)</b>					
C/2013 G9	2014 07 19.35584	13 12 48.62	-10 44 56.6	16.4 T	15Q62
C/2013 G9	2014 07 19.35771	13 12 48.60	-10 44 57.4	17.1 N	15Q62
<b>C/2013 H2 (Boattini)</b>					
C/2013 H2	2014 06 21.15911	15 28 22.84	+20 20 22.7		G45
C/2013 H2	2014 06 21.17050	15 28 22.37	+20 20 24.2	19.4 T	G45
C/2013 H2	2014 06 21.18188	15 28 21.81	+20 20 25.6	19.1 T	G45
C/2013 H2	2014 06 21.19328	15 28 21.47	+20 20 27.2	19.3 T	G45
<b>C/2013 P3 (Palomar)</b>					
C/2013 P3	2014 08 28.33409	23 49 09.77	+08 05 07.3	17.8 T	H15
C/2013 P3	2014 08 28.34521	23 49 09.58	+08 05 02.9	18.8 T	H15
C/2013 P3	2014 08 28.35583	23 49 09.34	+08 05 00.1	18.1 T	H15
C/2013 P3	2014 08 28.36733	23 49 09.07	+08 04 56.2	17.7 T	H15
C/2013 P3	2014 08 31.33208	23 48 05.54	+07 47 38.8	17.6 T	703
C/2013 P3	2014 08 31.33770	23 48 05.45	+07 47 36.4	17.6 T	703
C/2013 P3	2014 08 31.34334	23 48 05.31	+07 47 33.8	17.6 T	703
C/2013 P3	2014 08 31.34895	23 48 05.19	+07 47 32.6	17.6 T	703
C/2013 P3	2014 08 31.41291	23 48 03.766	+07 47 09.20	19.2 T	F51
C/2013 P3	2014 08 31.42460	23 48 03.502	+07 47 05.08	19.2 T	F51
C/2013 P3	2014 08 31.43632	23 48 03.246	+07 47 01.00	19.0 T	F51
C/2013 P3	2014 08 31.44808	23 48 02.986	+07 46 56.76	19.1 T	F51
<b>C/2013 P4 (PANSTARRS)</b>					
C/2013 P4	2014 08 28.31257	01 00 39.36	+11 16 49.1	18.8 N	K 850
C/2013 P4	2014 08 28.33801	01 00 39.11	+11 16 49.0	19.1 N	K 850
<b>C/2013 R1 (Lovejoy)</b>					
C/2013 R1	2013 12 08.58175	16 03 02.36	+34 52 19.8	9.6 T	168
C/2013 R1	2013 12 08.59053	16 03 06.05	+34 51 54.9	9.5 T	168
C/2013 R1	2013 12 08.59406	16 03 07.53	+34 51 45.0	8.9 T	168
C/2013 R1	2013 12 08.60204	16 03 10.88	+34 51 22.7	9.6 T	168
C/2013 R1	2013 12 08.61472	16 03 16.20	+34 50 47.0	9.6 T	168
C/2013 R1	2014 04 14.77598	18 13 44.11	-10 14 00.7	11.7 T	349
C/2013 R1	2014 04 14.77889	18 13 43.88	-10 14 03.6		349
C/2013 R1	2014 04 14.78182	18 13 43.64	-10 14 06.4		349
C/2013 R1	2014 07 26.42060	15 34 27.05	-28 11 59.0	16.1 T	15Q62
C/2013 R1	2014 07 26.42187	15 34 27.15	-28 11 58.9	16.6 N	15Q62
C/2013 R1	2014 08 10.44124	15 34 18.77	-29 07 47.2	18.3 N	KQ68
C/2013 R1	2014 08 10.56617	15 34 19.76	-29 08 13.0	17.9 N	KQ68
C/2013 R1	2014 08 12.39166	15 34 39.27	-29 14 58.5	16.2 T	15Q62
C/2013 R1	2014 08 12.39323	15 34 39.33	-29 14 58.2	17.4 N	15Q62
C/2013 R1	2014 08 13.46913	15 34 52.47	-29 18 55.7	17.5 N	30D90
C/2013 R1	2014 08 13.47360	15 34 52.54	-29 18 56.9	17.5 N	30D90
C/2013 R1	2014 08 13.47584	15 34 52.53	-29 18 57.3	17.5 N	30D90
C/2013 R1	2014 08 17.39715	15 35 51.42	-29 33 24.4	18.4 N	KQ68
C/2013 R1	2014 08 17.41301	15 35 51.64	-29 33 28.1	18.7 N	KQ68
C/2013 R1	2014 08 19.26678	15 36 25.17	-29 40 17.5	20 T	C51
Geocentric position (km)	- 2375.9335	- 5341.0004	- 3638.9048		
C/2013 R1	2014 08 19.33262	15 36 26.38	-29 40 31.7		C51
Geocentric position (km)	- 2381.6555	- 5357.6842	- 3610.4605		
C/2013 R1	2014 08 19.39832	15 36 27.61	-29 40 47.0		C51
Geocentric position (km)	- 2358.0658	- 5339.7372	- 3652.3494		



C/2013 R1	2014 08	19.46416	15 36	28.79	-29 41	02.1	C51
Geocentric position (km)		- 2363.7914		- 5356.4973		- 3623.9295	
C/2013 R1	2014 08	19.52986	15 36	30.18	-29 41	17.6	C51
Geocentric position (km)		- 2340.2188		- 5338.4091		- 3665.7382	
C/2013 R1	2014 08	19.66153	15 36	32.62	-29 41	46.2	C51
Geocentric position (km)		- 2351.5630		- 5371.9499		- 3608.9168	
C/2013 R1	2014 08	20.50559	15 36	49.33	-29 44	53.6	17.7 N 30D90
C/2013 R1	2014 08	20.51005	15 36	49.42	-29 44	54.7	17.7 N 30D90
C/2013 R1	2014 08	20.51675	15 36	49.55	-29 44	55.6	17.7 N 30D90
C/2013 R1	2014 08	24.39117	15 38	15.04	-29 59	19.3	19.1 N KQ68
C/2013 R1	2014 08	24.40480	15 38	15.45	-29 59	22.2	18.5 N KQ68

**P/2013 R3 (Catalina-PANSTARRS)**

P/2013 R3-A	2013 10	29.27713	00 25	05.035	+03 41	56.72	250
Geocentric position (km)		+ 5444.9615		- 3852.9014		- 1890.4557	
P/2013 R3-A	2013 10	29.28263	00 25	04.692	+03 41	57.17	250
Geocentric position (km)		+ 6230.1286		- 550.8302		- 2993.1003	
P/2013 R3-A	2013 10	29.28814	00 25	04.327	+03 41	56.74	250
Geocentric position (km)		+ 5363.4273		+ 2897.3328		- 3300.0261	
P/2013 R3-A	2013 10	29.33621	00 25	03.867	+03 41	46.39	250
Geocentric position (km)		+ 2239.7836		- 6553.3768		+ 264.8761	
P/2013 R3-A	2013 10	29.34172	00 25	03.644	+03 41	47.58	250
Geocentric position (km)		+ 4832.6844		- 4765.1948		- 1413.7898	
P/2013 R3-A	2013 10	29.34656	00 25	03.342	+03 41	47.96	250
Geocentric position (km)		+ 6068.6515		- 2127.3222		- 2591.2783	
P/2013 R3-A	2013 11	15.27931	00 22	34.938	+03 27	04.01	250
Geocentric position (km)		+ 3705.5624		- 5122.5174		- 2843.4912	
P/2013 R3-A	2013 11	15.28482	00 22	34.842	+03 27	03.24	250
Geocentric position (km)		+ 6128.0085		- 2802.1794		- 1629.1657	
P/2013 R3-A	2013 11	15.29033	00 22	34.701	+03 27	02.20	250
Geocentric position (km)		+ 6926.4945		+ 261.2566		+ 18.3300	
P/2013 R3-A	2013 11	15.29626	00 22	34.532	+03 27	00.69	250
Geocentric position (km)		+ 5735.6809		+ 3454.6047		+ 1771.6713	
P/2013 R3-A	2013 11	15.30177	00 22	34.425	+03 26	59.66	250
Geocentric position (km)		+ 3039.0774		+ 5490.9967		+ 2922.9821	
P/2013 R3-A	2013 11	15.30661	00 22	34.392	+03 26	59.26	250
Geocentric position (km)		- 25.0375		+ 6085.5677		+ 3297.4671	
P/2013 R3-A	2013 12	13.31109	00 35	01.068	+04 44	36.18	250
Geocentric position (km)		+ 3533.4287		- 5267.3626		+ 2776.3854	
P/2013 R3-A	2013 12	13.31659	00 35	01.232	+04 44	38.86	250
Geocentric position (km)		+ 6031.8837		- 3045.3945		+ 1517.4461	
P/2013 R3-A	2013 12	13.32210	00 35	01.342	+04 44	41.82	250
Geocentric position (km)		+ 6926.1370		- 14.1999		- 145.7953	
P/2013 R3-A	2013 12	13.32803	00 35	01.443	+04 44	44.75	250
Geocentric position (km)		+ 5837.6487		+ 3226.0481		- 1878.3243	
P/2013 R3-A	2013 12	13.33354	00 35	01.569	+04 44	47.02	250
Geocentric position (km)		+ 3209.7378		+ 5371.1749		- 2981.6937	
P/2013 R3-A	2013 12	13.33838	00 35	01.733	+04 44	48.49	250
Geocentric position (km)		+ 170.6434		+ 6092.3779		- 3302.6872	
P/2013 R3-A	2014 01	14.39392	01 08	12.606	+08 08	01.95	250
Geocentric position (km)		+ 4704.1188		- 5003.7663		- 911.3155	
P/2013 R3-A	2014 01	14.39943	01 08	12.940	+08 08	03.59	250
Geocentric position (km)		+ 6450.1407		- 2394.7542		+ 788.9534	

P/2013 R3-A	2014 01	14.40494	01 08	13.235	+08 08	05.30	250
Geocentric position (km)		+ 6481.6173		+ 851.2815		+ 2279.1322	
P/2013 R3-A	2014 01	14.41087	01 08	13.531	+08 08	07.70	250
Geocentric position (km)		+ 4598.7314		+ 4065.2759		+ 3194.3733	
P/2013 R3-A	2014 01	14.41638	01 08	13.800	+08 08	10.00	250
Geocentric position (km)		+ 1564.8375		+ 5950.3972		+ 3165.8033	
P/2013 R3-A	2014 01	14.42122	01 08	14.114	+08 08	12.42	250
Geocentric position (km)		- 1480.7467		+ 6306.7077		+ 2436.0069	
P/2013 R3-A	2014 02	13.41361	01 50	17.632	+12 09	43.87	250
Geocentric position (km)		+ 4983.9639		- 4795.3780		- 391.6405	
P/2013 R3-A	2014 02	13.41912	01 50	18.069	+12 09	47.68	250
Geocentric position (km)		+ 6361.1002		- 1910.1392		- 1975.6705	
P/2013 R3-A	2014 02	13.42463	01 50	18.471	+12 09	51.08	250
Geocentric position (km)		+ 6051.6583		+ 1481.6825		- 3034.5478	
P/2013 R3-A	2014 02	13.43057	01 50	18.872	+12 09	54.13	250
Geocentric position (km)		+ 3937.6007		+ 4675.4704		- 3271.5090	
P/2013 R3-A	2014 02	13.43608	01 50	19.279	+12 09	56.39	250
Geocentric position (km)		+ 872.8426		+ 6370.7083		- 2586.9542	
P/2013 R3-A	2014 02	13.44092	01 50	19.664	+12 09	57.91	250
Geocentric position (km)		- 2045.5707		+ 6469.3290		- 1404.4978	
P/2013 R3-B	2013 10	29.27713	00 25	05.166	+03 41	59.53	250
Geocentric position (km)		+ 5444.9615		- 3852.9014		- 1890.4557	
P/2013 R3-B	2013 10	29.28263	00 25	04.823	+03 41	59.99	250
Geocentric position (km)		+ 6230.1286		- 550.8302		- 2993.1003	
P/2013 R3-B	2013 10	29.28814	00 25	04.457	+03 41	59.55	250
Geocentric position (km)		+ 5363.4273		+ 2897.3328		- 3300.0261	
P/2013 R3-B	2013 10	29.33621	00 25	03.997	+03 41	49.18	250
Geocentric position (km)		+ 2239.7836		- 6553.3768		+ 264.8761	
P/2013 R3-B	2013 10	29.34172	00 25	03.774	+03 41	50.39	250
Geocentric position (km)		+ 4832.6844		- 4765.1948		- 1413.7898	
P/2013 R3-B	2013 10	29.34656	00 25	03.469	+03 41	50.72	250
Geocentric position (km)		+ 6068.6515		- 2127.3222		- 2591.2783	
P/2013 R3-B	2013 11	15.27931	00 22	35.019	+03 27	06.99	250
Geocentric position (km)		+ 3705.5624		- 5122.5174		- 2843.4912	
P/2013 R3-B	2013 11	15.28482	00 22	34.918	+03 27	06.15	250
Geocentric position (km)		+ 6128.0085		- 2802.1794		- 1629.1657	
P/2013 R3-B	2013 11	15.29033	00 22	34.778	+03 27	05.12	250
Geocentric position (km)		+ 6926.4945		+ 261.2566		+ 18.3300	
P/2013 R3-B	2013 11	15.29626	00 22	34.608	+03 27	03.61	250
Geocentric position (km)		+ 5735.6809		+ 3454.6047		+ 1771.6713	
P/2013 R3-B	2013 11	15.30177	00 22	34.504	+03 27	02.57	250
Geocentric position (km)		+ 3039.0774		+ 5490.9967		+ 2922.9821	
P/2013 R3-B	2013 11	15.30661	00 22	34.470	+03 27	02.17	250
Geocentric position (km)		- 25.0375		+ 6085.5677		+ 3297.4671	
P/2013 R3-B	2013 12	13.31109	00 35	01.061	+04 44	39.24	250
Geocentric position (km)		+ 3533.4287		- 5267.3626		+ 2776.3854	
P/2013 R3-B	2013 12	13.31659	00 35	01.224	+04 44	41.95	250
Geocentric position (km)		+ 6031.8837		- 3045.3945		+ 1517.4461	
P/2013 R3-B	2013 12	13.32210	00 35	01.332	+04 44	44.83	250
Geocentric position (km)		+ 6926.1370		- 14.1999		- 145.7953	
P/2013 R3-B	2013 12	13.32803	00 35	01.435	+04 44	47.84	250
Geocentric position (km)		+ 5837.6487		+ 3226.0481		- 1878.3243	



P/2013 R3-B	2013 12 13.33354	00 35 01.561	+04 44 50.12	250
Geocentric position (km)	+ 3209.7378	+ 5371.1749	- 2981.6937	
P/2013 R3-B	2013 12 13.33838	00 35 01.723	+04 44 51.57	250
Geocentric position (km)	+ 170.6434	+ 6092.3779	- 3302.6872	
P/2013 R3-B	2014 01 14.39392	01 08 12.519	+08 08 05.34	250
Geocentric position (km)	+ 4704.1188	- 5003.7663	- 911.3155	
P/2013 R3-B	2014 01 14.39943	01 08 12.851	+08 08 06.98	250
Geocentric position (km)	+ 6450.1407	- 2394.7542	+ 788.9534	
P/2013 R3-B	2014 01 14.40494	01 08 13.146	+08 08 08.68	250
Geocentric position (km)	+ 6481.6173	+ 851.2815	+ 2279.1322	
P/2013 R3-B	2014 01 14.41087	01 08 13.443	+08 08 11.07	250
Geocentric position (km)	+ 4598.7314	+ 4065.2759	+ 3194.3733	
P/2013 R3-B	2014 01 14.41638	01 08 13.709	+08 08 13.39	250
Geocentric position (km)	+ 1564.8375	+ 5950.3972	+ 3165.8033	
P/2013 R3-B	2014 01 14.42122	01 08 14.023	+08 08 15.81	250
Geocentric position (km)	- 1480.7467	+ 6306.7077	+ 2436.0069	
P/2013 R3-B	2014 02 13.41361	01 50 17.491	+12 09 47.70	250
Geocentric position (km)	+ 4983.9639	- 4795.3780	- 391.6405	
P/2013 R3-B	2014 02 13.41912	01 50 17.926	+12 09 51.47	250
Geocentric position (km)	+ 6361.1002	- 1910.1392	- 1975.6705	
P/2013 R3-B	2014 02 13.42463	01 50 18.324	+12 09 54.90	250
Geocentric position (km)	+ 6051.6583	+ 1481.6825	- 3034.5478	
P/2013 R3-B	2014 02 13.43057	01 50 18.728	+12 09 57.94	250
Geocentric position (km)	+ 3937.6007	+ 4675.4704	- 3271.5090	
P/2013 R3-B	2014 02 13.43608	01 50 19.134	+12 10 00.16	250
Geocentric position (km)	+ 872.8426	+ 6370.7083	- 2586.9542	
P/2013 R3-B	2014 02 13.44092	01 50 19.523	+12 10 01.68	250
Geocentric position (km)	- 2045.5707	+ 6469.3290	- 1404.4978	

C/2013 UQ<sub>4</sub> (Catalina)

C/2013 UQ <sub>4</sub>	2014 07 03.95448	23 51 03.79	+35 26 15.6	14.4 N	KK61
C/2013 UQ <sub>4</sub>	2014 07 03.95535	23 51 03.23	+35 26 25.8	14.9 N	KK61
C/2013 UQ <sub>4</sub>	2014 07 03.95613	23 51 02.69	+35 26 37.4	14.4 N	KK61
C/2013 UQ <sub>4</sub>	2014 07 18.92354	15 19 19.45	+47 00 07.8	14.6 N	B50
C/2013 UQ <sub>4</sub>	2014 07 18.92704	15 19 16.76	+46 59 34.5	14.6 N	KB50
C/2013 UQ <sub>4</sub>	2014 07 18.94586	15 19 02.33	+46 56 34.5	14.3 N	KB50
C/2013 UQ <sub>4</sub>	2014 07 22.87807	14 44 43.80	+38 15 00.0	10.9 T	17 I89
C/2013 UQ <sub>4</sub>	2014 07 22.88028	14 44 42.97	+38 14 45.6	14.5 N	17 I89
C/2013 UQ <sub>4</sub>	2014 07 22.88252	14 44 42.20	+38 14 31.2		17 I89
C/2013 UQ <sub>4</sub>	2014 07 22.88459	14 44 41.46	+38 14 17.6		17 I89
C/2013 UQ <sub>4</sub>	2014 07 22.88648	14 44 40.76	+38 14 05.0		17 I89
C/2013 UQ <sub>4</sub>	2014 07 22.88771	14 44 40.32	+38 13 57.3		17 I89
C/2013 UQ <sub>4</sub>	2014 07 29.96110	14 18 33.52	+28 53 17.3	15.0 T	Z76
C/2013 UQ <sub>4</sub>	2014 07 29.96253	14 18 33.33	+28 53 11.7	15.1 T	Z76
C/2013 UQ <sub>4</sub>	2014 07 29.96370	14 18 33.12	+28 53 08.1	15.2 T	Z76
C/2013 UQ <sub>4</sub>	2014 08 03.39259	14 10 39.07	+25 18 20.4	15.3 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 03.39449	14 10 38.91	+25 18 16.0	15.3 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 03.39562	14 10 38.82	+25 18 13.2	15.3 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 06.42465	14 06 58.70	+23 25 09.8	15.4 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 06.42687	14 06 58.55	+23 25 05.3	15.4 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 06.42852	14 06 58.44	+23 25 01.7	15.4 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 07.82762	14 05 36.60	+22 39 28.0	15.8 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.82833	14 05 36.59	+22 39 27.0	15.7 N	585

C/2013 UQ <sub>4</sub>	2014 08 07.82974	14 05 36.51	+22 39 24.2	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83045	14 05 36.46	+22 39 22.9	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83116	14 05 36.41	+22 39 21.6	15.8 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83187	14 05 36.38	+22 39 20.2	16.0 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83258	14 05 36.35	+22 39 18.8	15.7 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83328	14 05 36.32	+22 39 17.8	15.7 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83399	14 05 36.26	+22 39 16.7	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83470	14 05 36.24	+22 39 14.9	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83541	14 05 36.20	+22 39 13.6	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83612	14 05 36.14	+22 39 12.2	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83683	14 05 36.12	+22 39 11.3	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83753	14 05 36.07	+22 39 09.7	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83797	14 05 36.08	+22 39 10.3	15.7 N	213
C/2013 UQ <sub>4</sub>	2014 08 07.83824	14 05 36.04	+22 39 08.0	16.0 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83895	14 05 35.99	+22 39 07.0	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.83966	14 05 35.92	+22 39 05.4	15.7 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.84117	14 05 35.92	+22 39 04.9	15.5 N	213
C/2013 UQ <sub>4</sub>	2014 08 07.84277	14 05 35.84	+22 39 01.6	15.6 N	213
C/2013 UQ <sub>4</sub>	2014 08 07.84641	14 05 35.58	+22 38 52.7	16.1 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.84712	14 05 35.50	+22 38 51.4	15.8 N	585
C/2013 UQ <sub>4</sub>	2014 08 07.84768	14 05 35.49	+22 38 52.7	15.0 N	A77
C/2013 UQ <sub>4</sub>	2014 08 07.85103	14 05 35.38	+22 38 45.5	15.4 N	A77
C/2013 UQ <sub>4</sub>	2014 08 07.85480	14 05 34.99	+22 38 38.3	15.4 N	A77
C/2013 UQ <sub>4</sub>	2014 08 07.85932	14 05 34.84	+22 38 30.0	15.1 N	A77
C/2013 UQ <sub>4</sub>	2014 08 07.86476	14 05 34.62	+22 38 21.2	15.2 N	A77
C/2013 UQ <sub>4</sub>	2014 08 07.88384	14 05 33.60	+22 37 49.4	15.7 N	J24
C/2013 UQ <sub>4</sub>	2014 08 07.88838	14 05 33.35	+22 37 41.3	15.5 N	J24
C/2013 UQ <sub>4</sub>	2014 08 07.89206	14 05 33.15	+22 37 34.3	15.6 N	J24
C/2013 UQ <sub>4</sub>	2014 08 08.86694	14 04 42.54	+22 08 06.7	16.3 N	C47
C/2013 UQ <sub>4</sub>	2014 08 08.86878	14 04 42.44	+22 08 04.0	16.6 N	C47
C/2013 UQ <sub>4</sub>	2014 08 08.87099	14 04 42.32	+22 07 59.7	16.1 N	C47
C/2013 UQ <sub>4</sub>	2014 08 08.87321	14 04 42.23	+22 07 55.8	16.7 N	C47
C/2013 UQ <sub>4</sub>	2014 08 08.87542	14 04 42.11	+22 07 51.6	16.0 N	C47
C/2013 UQ <sub>4</sub>	2014 08 08.87763	14 04 42.00	+22 07 47.5	16.0 N	C47
C/2013 UQ <sub>4</sub>	2014 08 09.91128	14 03 53.26	+21 38 29.0	15.7 N	J24
C/2013 UQ <sub>4</sub>	2014 08 09.91756	14 03 53.03	+21 38 18.6	15.6 N	J24
C/2013 UQ <sub>4</sub>	2014 08 09.92205	14 03 52.77	+21 38 10.7	15.6 N	J24
C/2013 UQ <sub>4</sub>	2014 08 11.38081	14 02 51.82	+20 59 30.9	16.0 N	; Q62
C/2013 UQ <sub>4</sub>	2014 08 11.38169	14 02 51.73	+20 59 29.0	16.0 N	; Q62
C/2013 UQ <sub>4</sub>	2014 08 11.38256	14 02 51.76	+20 59 28.3	16.0 N	; Q62
C/2013 UQ <sub>4</sub>	2014 08 11.85529	14 02 33.55	+20 47 21.5	15.5 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.85600	14 02 33.56	+20 47 20.9	15.5 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.85670	14 02 33.53	+20 47 19.9	15.2 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.85741	14 02 33.49	+20 47 18.4	15.7 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.85812	14 02 33.42	+20 47 17.7	15.7 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.85883	14 02 33.47	+20 47 16.3	15.5 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.85954	14 02 33.39	+20 47 15.7	15.8 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.86169	14 02 33.32	+20 47 12.2	15.9 N	585
C/2013 UQ <sub>4</sub>	2014 08 11.89531	14 02 32.13	+20 46 22.5	15.5 N	C23
C/2013 UQ <sub>4</sub>	2014 08 11.89980	14 02 31.95	+20 46 15.5	15.5 N	C23
C/2013 UQ <sub>4</sub>	2014 08 11.90481	14 02 31.78	+20 46 08.3	15.5 N	C23
C/2013 UQ <sub>4</sub>	2014 08 12.88131	14 01 57.10	+20 22 31.1	15.5 N	J24
C/2013 UQ <sub>4</sub>	2014 08 12.89143	14 01 56.79	+20 22 16.2	15.5 N	J24



C/2013 UQ <sub>4</sub>	2014 08 12.90918	14 01 56.10	+20 21 51.0	15.5 N	J24
C/2013 UQ <sub>4</sub>	2014 08 13.39591	14 01 40.20	+20 10 34.1	15.8 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 13.39812	14 01 40.13	+20 10 31.0	15.8 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 13.40033	14 01 40.05	+20 10 28.0	15.8 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 13.85030	14 01 25.89	+20 00 01.9	16.1 N	C23
C/2013 UQ <sub>4</sub>	2014 08 13.85896	14 01 25.57	+19 59 50.4	16.2 N	C23
C/2013 UQ <sub>4</sub>	2014 08 13.87051	14 01 25.24	+19 59 34.9	16.0 N	C23
C/2013 UQ <sub>4</sub>	2014 08 14.79733	14 00 58.04	+19 39 08.2	16.0 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 14.79955	14 00 57.97	+19 39 05.3	16.1 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 14.80227	14 00 57.89	+19 39 01.5	15.9 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 16.79880	14 00 07.27	+18 57 50.3	16.1 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 16.80087	14 00 07.22	+18 57 47.9	16.2 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 16.80293	14 00 07.26	+18 57 45.5	16.2 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 16.84761	14 00 06.29	+18 56 51.7	16.1 N	C23
C/2013 UQ <sub>4</sub>	2014 08 16.84870	14 00 06.26	+18 56 50.6	16.1 N	C23
C/2013 UQ <sub>4</sub>	2014 08 16.84980	14 00 06.23	+18 56 49.6	16.0 N	C23
C/2013 UQ <sub>4</sub>	2014 08 17.39218	13 59 54.29	+18 46 24.3	16.1 N	Q68
C/2013 UQ <sub>4</sub>	2014 08 17.39445	13 59 54.27	+18 46 21.7	16.2 N	Q68
C/2013 UQ <sub>4</sub>	2014 08 17.40964	13 59 53.85	+18 46 04.2	16.5 N	K Q68
C/2013 UQ <sub>4</sub>	2014 08 17.79648	13 59 45.88	+18 38 35.1	15.9 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 17.79809	13 59 45.85	+18 38 33.3	16.1 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 17.79970	13 59 45.81	+18 38 31.5	16.1 N	K 160
C/2013 UQ <sub>4</sub>	2014 08 17.82330	13 59 45.31	+18 38 03.9	16.5 N	C47
C/2013 UQ <sub>4</sub>	2014 08 17.82515	13 59 45.28	+18 38 01.9	16.8 N	C47
C/2013 UQ <sub>4</sub>	2014 08 17.82736	13 59 45.24	+18 37 59.3	16.4 N	C47
C/2013 UQ <sub>4</sub>	2014 08 17.82958	13 59 45.17	+18 37 56.8	16.5 N	C47
C/2013 UQ <sub>4</sub>	2014 08 17.83179	13 59 45.15	+18 37 54.2	16.3 N	C47
C/2013 UQ <sub>4</sub>	2014 08 17.83437	13 59 45.05	+18 37 51.4	17.0 N	C47
C/2013 UQ <sub>4</sub>	2014 08 17.89015	13 59 43.95	+18 36 49.1	15.8 N	C86
C/2013 UQ <sub>4</sub>	2014 08 17.89613	13 59 43.79	+18 36 41.9	15.9 N	C86
C/2013 UQ <sub>4</sub>	2014 08 17.89763	13 59 43.73	+18 36 39.7	16.1 N	C86
C/2013 UQ <sub>4</sub>	2014 08 18.84850	13 59 25.71	+18 19 08.6	16.2 N	C23
C/2013 UQ <sub>4</sub>	2014 08 18.86738	13 59 25.28	+18 18 47.2	15.8 N	C23
C/2013 UQ <sub>4</sub>	2014 08 18.86848	13 59 25.26	+18 18 46.1	15.6 N	C23
C/2013 UQ <sub>4</sub>	2014 08 18.86957	13 59 25.26	+18 18 45.3	16.2 N	C23
C/2013 UQ <sub>4</sub>	2014 08 18.87370	13 59 25.18	+18 18 42.4	15.5 N	I72
C/2013 UQ <sub>4</sub>	2014 08 18.87514	13 59 25.13	+18 18 40.8	15.5 N	I72
C/2013 UQ <sub>4</sub>	2014 08 18.87660	13 59 25.11	+18 18 39.4	15.6 N	I72
C/2013 UQ <sub>4</sub>	2014 08 19.82813	13 59 08.94	+18 01 48.6	16.2 N	C86
C/2013 UQ <sub>4</sub>	2014 08 19.82961	13 59 08.94	+18 01 46.8	16.0 N	C86
C/2013 UQ <sub>4</sub>	2014 08 19.83110	13 59 08.90	+18 01 45.8	16.0 N	C86
C/2013 UQ <sub>4</sub>	2014 08 19.85805	13 59 08.51	+18 01 16.8	16.9 N	K 970
C/2013 UQ <sub>4</sub>	2014 08 19.86370	13 59 08.49	+18 01 11.0	16.9 N	K 970
C/2013 UQ <sub>4</sub>	2014 08 20.37316	13 59 00.54	+17 52 35.0	16.8 N	KE07
C/2013 UQ <sub>4</sub>	2014 08 20.37478	13 59 00.58	+17 52 33.7	16.9 N	KE07
C/2013 UQ <sub>4</sub>	2014 08 20.44473	13 58 59.41	+17 51 14.6		D81
C/2013 UQ <sub>4</sub>	2014 08 20.45063	13 58 59.33	+17 51 08.9		D81
C/2013 UQ <sub>4</sub>	2014 08 20.45650	13 58 59.27	+17 51 04.5	16.0 T	D81
C/2013 UQ <sub>4</sub>	2014 08 20.47160	13 58 59.04	+17 50 47.8		900
C/2013 UQ <sub>4</sub>	2014 08 20.47528	13 58 58.97	+17 50 44.5	16.4 T	900
C/2013 UQ <sub>4</sub>	2014 08 21.39821	13 58 46.20	+17 35 31.7	16.0 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 21.40057	13 58 46.15	+17 35 29.6	16.0 N	30D90
C/2013 UQ <sub>4</sub>	2014 08 21.40449	13 58 46.11	+17 35 25.3	16.0 N	30D90

C/2013 UQ <sub>4</sub>	2014 08 21.82405	13 58 40.78	+17 28 30.8	16.5 N	C47
C/2013 UQ <sub>4</sub>	2014 08 21.82552	13 58 40.76	+17 28 29.2	16.8 N	C47
C/2013 UQ <sub>4</sub>	2014 08 21.82737	13 58 40.72	+17 28 27.6	16.5 N	C47
C/2013 UQ <sub>4</sub>	2014 08 21.82921	13 58 40.70	+17 28 25.7	17.1 N	C47
C/2013 UQ <sub>4</sub>	2014 08 21.83105	13 58 40.69	+17 28 24.4	16.1 N	C47
C/2013 UQ <sub>4</sub>	2014 08 21.83290	13 58 40.68	+17 28 22.2	16.8 N	C47
C/2013 UQ <sub>4</sub>	2014 08 21.83348	13 58 40.69	+17 28 22.0	16.1 N	C23
C/2013 UQ <sub>4</sub>	2014 08 21.83677	13 58 40.64	+17 28 18.5	16.2 N	C23
C/2013 UQ <sub>4</sub>	2014 08 21.84320	13 58 40.60	+17 28 12.5	16.4 N	C23
C/2013 UQ <sub>4</sub>	2014 08 22.47648	13 58 33.10	+17 18 11.9		K 367
C/2013 UQ <sub>4</sub>	2014 08 22.47931	13 58 33.06	+17 18 09.6		K 367
C/2013 UQ <sub>4</sub>	2014 08 22.48215	13 58 33.03	+17 18 06.8	16.0 T	K 367
C/2013 UQ <sub>4</sub>	2014 08 22.89924	13 58 28.60	+17 11 37.8	16.3 N	I72
C/2013 UQ <sub>4</sub>	2014 08 22.90071	13 58 28.56	+17 11 36.8	16.4 N	I72
C/2013 UQ <sub>4</sub>	2014 08 22.90277	13 58 28.51	+17 11 34.9	16.3 N	I72
C/2013 UQ <sub>4</sub>	2014 08 24.85971	13 58 11.10	+16 42 31.5	16.2 N	I57
C/2013 UQ <sub>4</sub>	2014 08 24.86260	13 58 11.09	+16 42 29.4	16.3 N	I57
C/2013 UQ <sub>4</sub>	2014 08 24.86406	13 58 11.07	+16 42 27.9	16.1 N	I57
C/2013 UQ <sub>4</sub>	2014 08 25.82217	13 58 04.74	+16 28 57.2	16.9 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82288	13 58 04.73	+16 28 56.7	16.9 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82359	13 58 04.72	+16 28 56.2	16.8 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82430	13 58 04.71	+16 28 55.6	16.8 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82501	13 58 04.71	+16 28 55.0	16.8 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82572	13 58 04.72	+16 28 54.2	16.7 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82642	13 58 04.69	+16 28 53.3	16.8 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82713	13 58 04.70	+16 28 52.9	16.7 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82784	13 58 04.69	+16 28 52.2	16.8 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82855	13 58 04.69	+16 28 51.7	16.8 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 25.82890	13 58 04.68	+16 28 51.5	16.9 N	K 585
C/2013 UQ <sub>4</sub>	2014 08 29.82074	13 57 51.19	+15 37 13.5	16.4 N	KA77
C/2013 UQ <sub>4</sub>	2014 08 29.82836	13 57 51.38	+15 37 09.4	16.9 N	KA77
C/2013 UQ <sub>4</sub>	2014 08 31.83050	13 57 51.65	+15 13 39.2	16.4 N	C23
C/2013 UQ <sub>4</sub>	2014 08 31.83483	13 57 51.67	+15 13 36.5	16.4 N	C23
C/2013 UQ <sub>4</sub>	2014 08 31.83916	13 57 51.61	+15 13 33.4	16.7 N	C23

C/2013 US<sub>10</sub> (Catalina)

C/2013 US <sub>10</sub>	2014 07 28.71620	23 55 32.36	-15 31 02.3		349
C/2013 US <sub>10</sub>	2014 07 28.72557	23 55 32.11	-15 31 05.8	15.4 T	349
C/2013 US <sub>10</sub>	2014 08 03.61969	23 52 33.29	-16 11 34.3	15.4 N	30D90
C/2013 US <sub>10</sub>	2014 08 03.62345	23 52 33.17	-16 11 35.8	15.4 N	30D90
C/2013 US <sub>10</sub>	2014 08 03.62911	23 52 32.97	-16 11 38.3	15.4 N	30D90
C/2013 US <sub>10</sub>	2014 08 06.55275	23 50 53.56	-16 32 38.1	15.4 N	30D90
C/2013 US <sub>10</sub>	2014 08 06.56029	23 50 53.30	-16 32 41.5	15.4 N	30D90
C/2013 US <sub>10</sub>	2014 08 06.56594	23 50 53.10	-16 32 44.1	15.4 N	30D90
C/2013 US <sub>10</sub>	2014 08 06.67282	23 50 49.26	-16 33 32.6	15.3 T	349
C/2013 US <sub>10</sub>	2014 08 06.67866	23 50 49.06	-16 33 35.4		349
C/2013 US <sub>10</sub>	2014 08 06.68449	23 50 48.84	-16 33 37.9		349
C/2013 US <sub>10</sub>	2014 08 09.01358	23 49 24.38	-16 50 46.6	17.3 N	K C47
C/2013 US <sub>10</sub>	2014 08 09.01653	23 49 24.24	-16 50 47.8	17.2 N	K C47
C/2013 US <sub>10</sub>	2014 08 09.01912	23 49 24.17	-16 50 49.8	17.0 N	K C47
C/2013 US <sub>10</sub>	2014 08 09.02170	23 49 24.08	-16 50 50.4	17.1 N	K C47
C/2013 US <sub>10</sub>	2014 08 09.02428	23 49 23.96	-16 50 50.9	17.2 N	K C47
C/2013 US <sub>10</sub>	2014 08 09.02834	23 49 23.83	-16 50 53.3	17.4 N	K C47



C/2013 US <sub>10</sub>	2014 08 11.98624	23 47 30.19	-17 13 05.2	15.2 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.98696	23 47 30.17	-17 13 05.4	15.2 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.98767	23 47 30.15	-17 13 05.4	15.2 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.98839	23 47 30.08	-17 13 05.6	15.2 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.98946	23 47 30.07	-17 13 06.0	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.98982	23 47 30.05	-17 13 06.0	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99053	23 47 30.04	-17 13 06.6	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99124	23 47 30.01	-17 13 06.9	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99196	23 47 29.95	-17 13 07.5	15.3 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99267	23 47 29.93	-17 13 07.7	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99410	23 47 29.87	-17 13 08.3	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99481	23 47 29.85	-17 13 08.9	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 11.99552	23 47 29.84	-17 13 09.1	15.4 N	K 585
C/2013 US <sub>10</sub>	2014 08 12.00179	23 47 29.59	-17 13 11.5	15.4 N	585
C/2013 US <sub>10</sub>	2014 08 15.05736	23 45 24.82	-17 36 35.0	15.0 N	KA77
C/2013 US <sub>10</sub>	2014 08 15.06571	23 45 24.49	-17 36 39.9	14.9 N	KA77
C/2013 US <sub>10</sub>	2014 08 15.07405	23 45 24.12	-17 36 42.8	15.0 N	KA77
C/2013 US <sub>10</sub>	2014 08 16.04826	23 44 42.78	-17 44 16.5	15.4 N	J01
C/2013 US <sub>10</sub>	2014 08 16.05937	23 44 42.27	-17 44 20.9	15.4 N	J01
C/2013 US <sub>10</sub>	2014 08 16.07787	23 44 41.48	-17 44 30.1	15.3 N	J01
C/2013 US <sub>10</sub>	2014 08 16.32495	23 44 30.84	-17 46 22.5	15.6 T	Y00
C/2013 US <sub>10</sub>	2014 08 16.33472	23 44 30.35	-17 46 28.0	16.1 T	Y00
C/2013 US <sub>10</sub>	2014 08 16.34463	23 44 29.93	-17 46 33.2	15.7 T	Y00
C/2013 US <sub>10</sub>	2014 08 17.00286	23 44 01.60	-17 51 42.2	15.2 N	C47
C/2013 US <sub>10</sub>	2014 08 17.00508	23 44 01.43	-17 51 43.2	15.3 N	C47
C/2013 US <sub>10</sub>	2014 08 17.00766	23 44 01.32	-17 51 44.2	16.1 N	C47
C/2013 US <sub>10</sub>	2014 08 17.01024	23 44 01.18	-17 51 44.9	16.6 N	C47
C/2013 US <sub>10</sub>	2014 08 17.01282	23 44 01.13	-17 51 46.8	16.0 N	C47
C/2013 US <sub>10</sub>	2014 08 17.01540	23 44 00.99	-17 51 47.8	14.0 N	C47
C/2013 US <sub>10</sub>	2014 08 17.03304	23 44 00.25	-17 51 56.2	15.2 N	J38
C/2013 US <sub>10</sub>	2014 08 17.03553	23 44 00.13	-17 51 57.8	15.2 N	J38
C/2013 US <sub>10</sub>	2014 08 17.04546	23 43 59.70	-17 52 02.0	15.2 N	J38
C/2013 US <sub>10</sub>	2014 08 18.78418	23 42 42.66	-18 05 36.8	15.2 N	30D90
C/2013 US <sub>10</sub>	2014 08 18.79032	23 42 42.40	-18 05 39.6	15.2 N	30D90
C/2013 US <sub>10</sub>	2014 08 18.79495	23 42 42.19	-18 05 41.7	15.2 N	30D90
C/2013 US <sub>10</sub>	2014 08 19.67776	23 42 02.35	-18 12 40.5		900
C/2013 US <sub>10</sub>	2014 08 19.68491	23 42 02.03	-18 12 43.8	15.1 T	900
C/2013 US <sub>10</sub>	2014 08 20.62494	23 41 18.82	-18 20 07.4	16.8 N	KE07
C/2013 US <sub>10</sub>	2014 08 20.62656	23 41 18.75	-18 20 08.0	16.8 N	KE07
C/2013 US <sub>10</sub>	2014 08 22.76458	23 39 38.16	-18 37 06.9		K 367
C/2013 US <sub>10</sub>	2014 08 22.76580	23 39 38.10	-18 37 07.4		K 367
C/2013 US <sub>10</sub>	2014 08 22.76742	23 39 38.03	-18 37 08.3	15.0 T	K 367
C/2013 US <sub>10</sub>	2014 08 23.04955	23 39 24.51	-18 39 22.5	15.1 N	I99
C/2013 US <sub>10</sub>	2014 08 23.05113	23 39 24.45	-18 39 23.8	15.1 N	I99
C/2013 US <sub>10</sub>	2014 08 23.05272	23 39 24.38	-18 39 24.4	15.1 N	I99
C/2013 US <sub>10</sub>	2014 08 24.37329	23 38 20.38	-18 49 54.9	14.7 N	H47
C/2013 US <sub>10</sub>	2014 08 24.37902	23 38 20.10	-18 49 57.7	14.7 N	H47
C/2013 US <sub>10</sub>	2014 08 24.38314	23 38 19.89	-18 49 59.6	14.7 N	H47
C/2013 US <sub>10</sub>	2014 08 24.38771	23 38 19.61	-18 50 02.1	14.7 N	H47
C/2013 US <sub>10</sub>	2014 08 24.82563	23 37 58.13	-18 53 29.4	15.2 N	30D90
C/2013 US <sub>10</sub>	2014 08 24.83178	23 37 57.83	-18 53 32.7	15.2 N	30D90
C/2013 US <sub>10</sub>	2014 08 24.83794	23 37 57.48	-18 53 35.9	15.2 N	30D90
C/2013 US <sub>10</sub>	2014 08 24.96671	23 37 51.25	-18 54 38.9	16.2 N	C47

C/2013 US <sub>10</sub>	2014 08 24.96856	23 37 51.17	-18 54 39.1	16.5 N	C47
C/2013 US <sub>10</sub>	2014 08 24.97077	23 37 51.07	-18 54 40.7	15.9 N	C47
C/2013 US <sub>10</sub>	2014 08 24.97298	23 37 50.94	-18 54 41.5	16.3 N	C47
C/2013 US <sub>10</sub>	2014 08 24.97556	23 37 50.84	-18 54 43.0	16.5 N	C47
C/2013 US <sub>10</sub>	2014 08 24.97815	23 37 50.72	-18 54 44.4	16.5 N	C47
C/2013 US <sub>10</sub>	2014 08 24.98136	23 37 50.57	-18 54 46.1	15.1 N	J38
C/2013 US <sub>10</sub>	2014 08 24.98580	23 37 50.32	-18 54 48.0	15.5 N	J01
C/2013 US <sub>10</sub>	2014 08 24.98609	23 37 50.36	-18 54 48.5	15.1 N	J38
C/2013 US <sub>10</sub>	2014 08 24.99082	23 37 50.11	-18 54 50.8	15.2 N	J38
C/2013 US <sub>10</sub>	2014 08 24.99319	23 37 50.00	-18 54 50.9	15.6 N	J01
C/2013 US <sub>10</sub>	2014 08 25.01536	23 37 48.91	-18 55 02.0	15.6 N	J01
C/2013 US <sub>10</sub>	2014 08 25.24298	23 37 37.60	-18 56 49.2	16.3 T	Y00
C/2013 US <sub>10</sub>	2014 08 25.24838	23 37 37.34	-18 56 51.7	16.3 T	Y00
C/2013 US <sub>10</sub>	2014 08 25.25474	23 37 37.02	-18 56 54.9	16.3 T	Y00
C/2013 US <sub>10</sub>	2014 08 27.04921	23 36 07.16	-19 11 16.5	15.5 N	C23
C/2013 US <sub>10</sub>	2014 08 27.05031	23 36 07.02	-19 11 16.5	14.9 N	C23
C/2013 US <sub>10</sub>	2014 08 27.05250	23 36 07.02	-19 11 16.8	15.0 N	C23
C/2013 US <sub>10</sub>	2014 08 27.33360	23 35 52.61	-19 13 30.6	15.4 N	W96
C/2013 US <sub>10</sub>	2014 08 27.34583	23 35 51.99	-19 13 36.3	15.3 N	W96
C/2013 US <sub>10</sub>	2014 08 27.48390	23 35 45.10	-19 14 42.2	15.1 N	30D90
C/2013 US <sub>10</sub>	2014 08 27.49006	23 35 44.81	-19 14 44.7	15.1 N	30D90
C/2013 US <sub>10</sub>	2014 08 27.49620	23 35 44.47	-19 14 47.9	15.1 N	30D90
C/2013 US <sub>10</sub>	2014 08 27.96866	23 35 20.31	-19 18 37.5	16.7 N	C47
C/2013 US <sub>10</sub>	2014 08 27.97050	23 35 20.17	-19 18 37.8	16.6 N	C47
C/2013 US <sub>10</sub>	2014 08 27.97272	23 35 20.07	-19 18 38.5	15.8 N	C47
C/2013 US <sub>10</sub>	2014 08 27.97493	23 35 19.95	-19 18 39.9	16.6 N	C47
C/2013 US <sub>10</sub>	2014 08 27.97714	23 35 19.80	-19 18 41.1	16.2 N	C47
C/2013 US <sub>10</sub>	2014 08 27.98009	23 35 19.69	-19 18 42.2	15.6 N	C47
C/2013 US <sub>10</sub>	2014 08 28.50597	23 34 52.613	-19 22 53.10	16.6 T	F51
C/2013 US <sub>10</sub>	2014 08 28.51668	23 34 52.075	-19 22 58.32	16.6 T	F51
C/2013 US <sub>10</sub>	2014 08 28.52741	23 34 51.501	-19 23 03.28	16.7 T	F51
C/2013 US <sub>10</sub>	2014 08 28.53816	23 34 50.919	-19 23 08.59	16.6 T	F51
C/2013 US <sub>10</sub>	2014 08 28.95008	23 34 29.66	-19 26 25.8	17.0 N	C47
C/2013 US <sub>10</sub>	2014 08 28.95193	23 34 29.57	-19 26 27.4	16.9 N	C47
C/2013 US <sub>10</sub>	2014 08 28.95451	23 34 29.41	-19 26 28.3	16.9 N	C47
C/2013 US <sub>10</sub>	2014 08 28.95635	23 34 29.35	-19 26 29.4	16.3 N	C47
C/2013 US <sub>10</sub>	2014 08 28.95820	23 34 29.25	-19 26 30.1	16.5 N	C47
C/2013 US <sub>10</sub>	2014 08 28.96078	23 34 29.11	-19 26 31.6	17.0 N	C47
C/2013 US <sub>10</sub>	2014 08 30.97397	23 32 43.50	-19 42 33.3	15.4 N	K 157
C/2013 US <sub>10</sub>	2014 08 30.97542	23 32 43.46	-19 42 34.3	15.5 N	K 157
C/2013 US <sub>10</sub>	2014 08 30.97670	23 32 43.38	-19 42 34.7	15.6 N	K 157
C/2013 US <sub>10</sub>	2014 08 30.97798	23 32 43.27	-19 42 35.2	15.4 N	K 157
C/2013 US <sub>10</sub>	2014 08 30.97927	23 32 43.21	-19 42 36.2	15.5 N	K 157
C/2013 US <sub>10</sub>	2014 08 30.98055	23 32 43.15	-19 42 36.6	15.3 N	K 157
C/2013 US <sub>10</sub>	2014 08 31.56247	23 32 12.25	-19 47 13.9	14.9 T	D95
C/2013 US <sub>10</sub>	2014 08 31.56677	23 32 12.02	-19 47 15.9		D95
C/2013 US <sub>10</sub>	2014 08 31.57216	23 32 11.73	-19 47 18.5		D95
C/2013 US <sub>10</sub>	2014 08 31.96670	23 31 50.64	-19 50 26.5	15.0 N	I99
C/2013 US <sub>10</sub>	2014 08 31.96817	23 31 50.56	-19 50 27.6	15.1 N	I99
C/2013 US <sub>10</sub>	2014 08 31.96964	23 31 50.49	-19 50 27.7	15.1 N	I99
C/2013 US <sub>10</sub>	2014 08 31.97963	23 31 49.92	-19 50 32.7	15.8 N	C23
C/2013 US <sub>10</sub>	2014 08 31.98291	23 31 49.76	-19 50 34.2	15.2 N	C23
C/2013 US <sub>10</sub>	2014 08 31.98730	23 31 49.51	-19 50 36.6	15.6 N	C23



C/2013 US <sub>10</sub>	2014 09 01.32640	23 31 31.34	-19 53 16.9	14.8 T	703
C/2013 US <sub>10</sub>	2014 09 01.33044	23 31 31.12	-19 53 18.9	14.7 T	703
C/2013 US <sub>10</sub>	2014 09 01.33445	23 31 30.90	-19 53 20.8	14.8 T	703
C/2013 US <sub>10</sub>	2014 09 01.33847	23 31 30.68	-19 53 22.8	14.8 T	703

**C/2013 V1 (Boattini)**

C/2013 V1	2014 04 09.74412	03 29 37.83	+47 18 02.8	14.7 T	168
C/2013 V1	2014 04 09.74666	03 29 38.11	+47 18 06.8	14.6 T	168
C/2013 V1	2014 04 10.74915	03 31 30.89	+47 43 19.4	14.4 T	168
C/2013 V1	2014 04 10.75187	03 31 31.12	+47 43 23.5	14.8 T	168
C/2013 V1	2014 04 10.80656	03 31 37.52	+47 44 45.9	14.7 T	168
C/2013 V1	2014 08 01.96520	12 35 15.84	+49 42 48.6	17.1 N	A32
C/2013 V1	2014 08 01.96805	12 35 16.28	+49 42 43.1	17.8 N	A32
C/2013 V1	2014 08 01.97013	12 35 16.55	+49 42 39.1	17.5 N	A32
C/2013 V1	2014 08 11.83046	13 02 51.98	+44 50 28.8	17.7 N	K 585
C/2013 V1	2014 08 11.83117	13 02 52.12	+44 50 27.4	17.5 N	K 585
C/2013 V1	2014 08 11.90722	13 03 03.91	+44 48 18.8	17.4 N	K C23
C/2013 V1	2014 08 11.91096	13 03 04.50	+44 48 06.4	17.3 N	K C23
C/2013 V1	2014 08 15.86558	13 12 56.35	+42 53 10.1	17.8 N	K A77
C/2013 V1	2014 08 15.87088	13 12 57.12	+42 53 01.4	17.7 N	K A77
C/2013 V1	2014 08 15.87620	13 12 57.98	+42 52 51.2	17.7 N	K A77
C/2013 V1	2014 08 17.83699	13 17 38.92	+41 56 33.4	19.1 N	K C47
C/2013 V1	2014 08 17.84216	13 17 39.60	+41 56 24.8	18.5 N	K C47
C/2013 V1	2014 08 17.84511	13 17 40.00	+41 56 19.6	18.9 N	K C47
C/2013 V1	2014 08 17.87221	13 17 43.93	+41 55 34.3	17.9 N	K A77
C/2013 V1	2014 08 17.87757	13 17 44.67	+41 55 24.8	17.9 N	K A77
C/2013 V1	2014 08 20.48376	13 23 46.68	+40 41 28.4		900
C/2013 V1	2014 08 20.48744	13 23 46.94	+40 41 22.4	17.7 T	900
C/2013 V1	2014 08 21.83966	13 26 49.84	+40 03 24.7	18.2 N	K C47
C/2013 V1	2014 08 21.84409	13 26 50.45	+40 03 16.3	18.6 N	K C47
C/2013 V1	2014 08 27.82493	13 39 43.87	+37 19 12.3	18.4 N	K A77
C/2013 V1	2014 08 27.83216	13 39 44.79	+37 18 59.8	18.2 N	K A77
C/2013 V1	2014 08 27.83939	13 39 45.69	+37 18 48.0	19.2 N	K A77
C/2013 V1	2014 08 28.92349	13 42 00.29	+36 49 47.1	19.3 N	K I81
C/2013 V1	2014 08 28.92491	13 42 00.18	+36 49 43.8	19.4 N	K I81
C/2013 V1	2014 08 28.92633	13 42 00.36	+36 49 39.9	19.0 N	K I81
C/2013 V1	2014 08 29.83811	13 43 52.26	+36 25 32.6	18.1 N	K A77
C/2013 V1	2014 08 29.84353	13 43 52.75	+36 25 22.9	17.1 N	K A77
C/2013 V1	2014 08 29.84895	13 43 53.34	+36 25 11.9	17.5 N	K A77
C/2013 V1	2014 08 31.84602	13 47 54.27	+35 32 41.6	17.8 N	C23
C/2013 V1	2014 08 31.85227	13 47 54.90	+35 32 34.7	18.5 N	C23

**C/2013 V2 (Borisov)**

C/2013 V2	2014 01 04.75916	04 51 35.20	+53 27 00.6	17.1 T	168
C/2013 V2	2014 01 04.76165	04 51 35.03	+53 27 00.6	17.3 T	168
C/2013 V2	2014 01 04.85123	04 51 30.46	+53 27 07.9	17.3 T	168
C/2013 V2	2014 03 09.51007	04 48 45.67	+52 33 46.8		349
C/2013 V2	2014 03 09.52091	04 48 46.24	+52 33 46.3	16.2 T	349
C/2013 V2	2014 04 01.89388	05 13 37.90	+52 14 08.3	17.0 T	168
C/2013 V2	2014 04 01.89556	05 13 38.03	+52 14 09.0	16.8 T	168
C/2013 V2	2014 04 01.95667	05 13 42.96	+52 14 06.0	17.1 T	168
C/2013 V2	2014 04 01.95835	05 13 43.05	+52 14 06.6	17.3 T	168
C/2013 V2	2014 05 02.84713	06 02 03.04	+51 52 59.3	17.2 T	168
C/2013 V2	2014 05 02.84961	06 02 03.48	+51 52 59.1	17.4 T	168

C/2013 V2	2014 05 04.76113	06 05 30.36	+51 51 10.0	17.0 T	168
C/2013 V2	2014 05 04.76628	06 05 31.00	+51 51 10.3	17.2 T	168

**C/2013 V4 (Catalina)**

C/2013 V4	2014 08 04.80378	04 06 20.63	+16 27 50.2	17.4 N	30D90
C/2013 V4	2014 08 04.81273	04 06 20.82	+16 27 53.1	17.4 N	30D90
C/2013 V4	2014 08 04.81942	04 06 20.93	+16 27 54.9	17.4 N	30D90
C/2013 V4	2014 08 10.79602	04 08 02.14	+16 56 50.4	17.3 N	30D90
C/2013 V4	2014 08 10.80941	04 08 02.21	+16 56 53.3	17.3 N	30D90
C/2013 V4	2014 08 11.95564	04 08 19.78	+17 02 26.2	17.6 N	K 585
C/2013 V4	2014 08 11.95779	04 08 19.85	+17 02 26.3	17.0 N	K 585
C/2013 V4	2014 08 11.95887	04 08 19.89	+17 02 26.7	17.1 N	K 585
C/2013 V4	2014 08 11.95959	04 08 19.90	+17 02 26.7	17.1 N	K 585
C/2013 V4	2014 08 11.96075	04 08 19.89	+17 02 27.3	17.1 N	K 585
C/2013 V4	2014 08 11.96151	04 08 19.93	+17 02 27.1	17.2 N	K 585
C/2013 V4	2014 08 11.96304	04 08 19.95	+17 02 28.3	17.4 N	K 585
C/2013 V4	2014 08 11.96455	04 08 19.98	+17 02 28.6	17.3 N	K 585
C/2013 V4	2014 08 11.96492	04 08 19.96	+17 02 28.5	17.3 N	K 585
C/2013 V4	2014 08 11.96606	04 08 19.98	+17 02 28.7	17.2 N	K 585
C/2013 V4	2014 08 11.96644	04 08 20.00	+17 02 28.4	17.2 N	K 585
C/2013 V4	2014 08 11.96756	04 08 20.02	+17 02 29.3	17.2 N	K 585
C/2013 V4	2014 08 11.96831	04 08 20.03	+17 02 29.7	17.2 N	K 585
C/2013 V4	2014 08 11.96943	04 08 20.04	+17 02 29.6	17.2 N	K 585
C/2013 V4	2014 08 11.97018	04 08 20.04	+17 02 29.9	17.2 N	K 585
C/2013 V4	2014 08 11.97093	04 08 20.07	+17 02 29.3	17.3 N	K 585
C/2013 V4	2014 08 11.97171	04 08 20.09	+17 02 30.8	17.3 N	K 585
C/2013 V4	2014 08 11.97242	04 08 20.10	+17 02 30.9	17.3 N	K 585
C/2013 V4	2014 08 11.97314	04 08 20.11	+17 02 31.0	17.3 N	K 585
C/2013 V4	2014 08 20.10783	04 10 02.94	+17 41 47.0	17.3 N	K C23
C/2013 V4	2014 08 20.11002	04 10 03.00	+17 41 47.4	17.1 N	K C23
C/2013 V4	2014 08 20.11221	04 10 03.13	+17 41 47.7	16.7 N	K C23
C/2013 V4	2014 08 26.07053	04 10 54.04	+18 10 34.6	17.3 N	I81
C/2013 V4	2014 08 26.07402	04 10 54.05	+18 10 35.0	16.9 N	I81
C/2013 V4	2014 08 26.07462	04 10 54.06	+18 10 35.4	17.2 N	K I81
C/2013 V4	2014 08 26.07544	04 10 54.08	+18 10 35.5	17.1 N	I81
C/2013 V4	2014 08 27.75622	04 11 04.41	+18 18 45.2	17.3 N	30D90
C/2013 V4	2014 08 27.76292	04 11 04.43	+18 18 46.9	17.3 N	30D90
C/2013 V4	2014 08 27.76961	04 11 04.46	+18 18 49.1	17.3 N	30D90
C/2013 V4	2014 08 31.63060	04 11 21.10	+18 37 27.9	15.9 T	D95
C/2013 V4	2014 08 31.63490	04 11 21.20	+18 37 28.6		D95
C/2013 V4	2014 08 31.63598	04 11 21.22	+18 37 29.5		D95
C/2013 V4	2014 09 02.10036	04 11 24.84	+18 44 35.8	16.3 N	K A77
C/2013 V4	2014 09 02.11784	04 11 24.86	+18 44 40.6	16.4 N	K A77
C/2013 V4	2014 09 04.12232	04 11 27.41	+18 54 24.2	17.3 N	KK25
C/2013 V4	2014 09 04.13004	04 11 27.39	+18 54 26.6	17.4 N	KK25
C/2013 V4	2014 09 05.13823	04 11 27.64	+18 59 20.2	17.5 N	K Z81
C/2013 V4	2014 09 05.16642	04 11 27.63	+18 59 28.4	17.6 N	K Z81
C/2013 V4	2014 09 05.19408	04 11 27.60	+18 59 36.5	17.6 N	K Z81
C/2013 V4	2014 09 06.10872	04 11 27.16	+19 04 03.3	17.3 N	KK25
C/2013 V4	2014 09 06.11493	04 11 27.15	+19 04 05.0	17.3 N	KK25
C/2013 V4	2014 09 06.12115	04 11 27.15	+19 04 06.7	17.3 N	KK25
C/2013 V4	2014 09 06.12763	04 11 27.16	+19 04 08.5	17.6 N	K Z81
C/2013 V4	2014 09 06.14930	04 11 27.15	+19 04 14.8	17.7 N	K Z81



C/2013 V4	2014 09 06.17171	04 11 27.10	+19 04 21.4	17.5 N	K Z81
C/2013 V4	2014 09 06.19449	04 11 27.08	+19 04 28.2	17.6 N	K Z81
C/2013 V4	2014 09 07.13662	04 11 25.94	+19 09 02.7		K Z81
C/2013 V4	2014 09 07.20062	04 11 25.82	+19 09 21.8	17.5 N	K Z81

**C/2013 V5 (Oukaïmeden)**

C/2013 V5	2014 04 01.68532	04 50 00.03	+19 04 21.2	16.4 T	168
C/2013 V5	2014 04 01.68792	04 50 00.03	+19 04 20.8	16.2 T	168
C/2013 V5	2014 04 01.72595	04 49 59.79	+19 04 16.5	16.3 T	168
C/2013 V5	2014 04 01.72861	04 49 59.80	+19 04 16.2	16.1 T	168
C/2013 V5	2014 04 03.70280	04 49 51.76	+19 00 47.5	16.0 T	168
C/2013 V5	2014 04 03.70540	04 49 51.75	+19 00 47.4	16.1 T	168
C/2013 V5	2014 04 03.72456	04 49 51.69	+19 00 45.3	16.1 T	168
C/2013 V5	2014 04 03.72815	04 49 51.68	+19 00 44.7	16.1 T	168
C/2013 V5	2014 08 05.81242	06 05 04.98	+11 14 21.1	12.4 N	15Q62
C/2013 V5	2014 08 05.81303	06 05 05.05	+11 14 20.7		15Q62
C/2013 V5	2014 08 06.77018	06 06 19.13	+11 00 43.3	10.4 T	349
C/2013 V5	2014 08 06.77240	06 06 19.31	+11 00 41.4		349
C/2013 V5	2014 08 06.77459	06 06 19.48	+11 00 39.6		349
C/2013 V5	2014 08 07.18088	06 06 51.60	+10 54 45.4	12.5 N	I72
C/2013 V5	2014 08 07.18169	06 06 51.63	+10 54 43.7	12.5 N	I72
C/2013 V5	2014 08 07.81823	06 07 42.56	+10 45 23.4	13.1 N	; Q62
C/2013 V5	2014 08 07.81986	06 07 42.70	+10 45 22.1	13.1 N	; Q62
C/2013 V5	2014 08 07.82153	06 07 42.86	+10 45 20.2	13.1 N	; Q62
C/2013 V5	2014 08 08.14269	06 08 08.94	+10 40 21.7	12.7 N	K25
C/2013 V5	2014 08 08.14396	06 08 09.05	+10 40 19.9	12.7 N	KK25
C/2013 V5	2014 08 08.14566	06 08 09.17	+10 40 18.6	12.7 N	KK25
C/2013 V5	2014 08 10.14573	06 10 57.34	+10 08 24.4	12.3 N	I72
C/2013 V5	2014 08 10.14650	06 10 57.42	+10 08 23.7	12.3 N	I72
C/2013 V5	2014 08 10.14807	06 10 57.54	+10 08 22.5	12.3 N	I72
C/2013 V5	2014 08 12.04527	06 13 47.56	+09 35 20.1	12.2 N	585
C/2013 V5	2014 08 12.04598	06 13 47.65	+09 35 19.0	12.3 N	585
C/2013 V5	2014 08 12.04669	06 13 47.67	+09 35 18.3	12.2 N	585
C/2013 V5	2014 08 12.04882	06 13 47.86	+09 35 16.0	12.2 N	585
C/2013 V5	2014 08 12.05023	06 13 48.04	+09 35 14.5	12.3 N	585
C/2013 V5	2014 08 12.05094	06 13 48.10	+09 35 14.1	12.3 N	585
C/2013 V5	2014 08 12.05165	06 13 48.16	+09 35 12.7	12.3 N	585
C/2013 V5	2014 08 12.05236	06 13 48.21	+09 35 12.1	12.3 N	585
C/2013 V5	2014 08 12.05307	06 13 48.30	+09 35 11.5	12.3 N	585
C/2013 V5	2014 08 12.05378	06 13 48.37	+09 35 10.5	12.3 N	585
C/2013 V5	2014 08 12.05521	06 13 48.47	+09 35 09.1	12.3 N	585
C/2013 V5	2014 08 13.12862	06 15 29.90	+09 15 07.4	13.1 N	C23
C/2013 V5	2014 08 13.13143	06 15 30.24	+09 15 03.6	13.0 N	C23
C/2013 V5	2014 08 13.13546	06 15 30.62	+09 14 59.2	13.0 N	C23
C/2013 V5	2014 08 13.13827	06 15 30.85	+09 14 55.6	12.4 N	C23
C/2013 V5	2014 08 13.22405	06 15 39.05	+09 13 20.8	11.8 N	J24
C/2013 V5	2014 08 13.23225	06 15 39.88	+09 13 11.4	11.8 N	J24
C/2013 V5	2014 08 13.24043	06 15 40.66	+09 13 02.4	11.9 N	J24
C/2013 V5	2014 08 13.37701	06 15 53.98	+09 10 25.9	11.4 N	W96
C/2013 V5	2014 08 14.19190	06 17 14.61	+08 54 15.3	12.1 N	I72
C/2013 V5	2014 08 14.19267	06 17 14.69	+08 54 14.9	12.2 N	I72
C/2013 V5	2014 08 14.19422	06 17 14.85	+08 54 13.0	12.2 N	I72
C/2013 V5	2014 08 16.16947	06 20 41.83	+08 12 22.1	13.4 N	J01

C/2013 V5	2014 08 16.17413	06 20 42.32	+08 12 16.9	13.4 N	J01
C/2013 V5	2014 08 16.18575	06 20 43.65	+08 12 00.8	13.3 N	J01
C/2013 V5	2014 08 17.19125	06 22 36.19	+07 49 00.3	11.9 N	I72
C/2013 V5	2014 08 17.19281	06 22 36.35	+07 48 58.5	11.9 N	I72
C/2013 V5	2014 08 17.19437	06 22 36.54	+07 48 55.7	11.9 N	I72
C/2013 V5	2014 08 18.19119	06 24 33.43	+07 24 53.1	12.1 N	I72
C/2013 V5	2014 08 18.19274	06 24 33.58	+07 24 50.3	12.1 N	I72
C/2013 V5	2014 08 18.19429	06 24 33.83	+07 24 48.8	12.1 N	I72
C/2013 V5	2014 08 18.38738	06 24 57.09	+07 20 05.8	12.7 N	W96
C/2013 V5	2014 08 18.39571	06 24 58.09	+07 19 53.2	12.6 N	W96
C/2013 V5	2014 08 18.40825	06 24 59.66	+07 19 34.5	12.6 N	W96
C/2013 V5	2014 08 18.41677	06 25 00.64	+07 19 21.7	12.7 N	W96
C/2013 V5	2014 08 20.18093	06 28 44.94	+06 32 43.4	12.0 N	I72
C/2013 V5	2014 08 20.18248	06 28 45.12	+06 32 41.0	12.0 N	I72
C/2013 V5	2014 08 20.18325	06 28 45.23	+06 32 39.4	12.0 N	I72
C/2013 V5	2014 08 21.12737	06 30 54.16	+06 05 44.0	11.4 N	C10
C/2013 V5	2014 08 21.13421	06 30 55.13	+06 05 32.0	11.3 N	C10
C/2013 V5	2014 08 21.14135	06 30 56.12	+06 05 19.4	11.3 N	C10
C/2013 V5	2014 08 21.14873	06 30 57.17	+06 05 06.4	11.3 N	C10
C/2013 V5	2014 08 21.18094	06 31 01.77	+06 04 09.9	12.3 N	I72
C/2013 V5	2014 08 21.18171	06 31 01.86	+06 04 08.3	12.2 N	I72
C/2013 V5	2014 08 21.18249	06 31 01.97	+06 04 06.8	12.4 N	I72
C/2013 V5	2014 08 22.79554	06 34 59.93	+05 14 20.7		367
C/2013 V5	2014 08 22.79797	06 35 00.31	+05 14 16.1		367
C/2013 V5	2014 08 22.80041	06 35 00.67	+05 14 11.3	9.7 T	367
C/2013 V5	2014 08 23.11216	06 35 49.37	+05 03 57.3	14.3 N	461
C/2013 V5	2014 08 23.11263	06 35 49.44	+05 03 56.7	14.0 N	461
C/2013 V5	2014 08 23.11309	06 35 49.53	+05 03 55.6	12.7 N	461
C/2013 V5	2014 08 23.11355	06 35 49.60	+05 03 54.8	12.6 N	461
C/2013 V5	2014 08 23.11457	06 35 49.77	+05 03 52.7	12.8 N	461
C/2013 V5	2014 08 23.11492	06 35 49.81	+05 03 51.9	12.8 N	461
C/2013 V5	2014 08 23.11528	06 35 49.85	+05 03 51.3	12.8 N	461
C/2013 V5	2014 08 23.11564	06 35 49.92	+05 03 50.6	12.8 N	461
C/2013 V5	2014 08 23.11617	06 35 50.00	+05 03 49.7	12.8 N	461
C/2013 V5	2014 08 23.11654	06 35 50.05	+05 03 48.8	12.9 N	461
C/2013 V5	2014 08 23.11722	06 35 50.17	+05 03 47.4	12.9 N	461
C/2013 V5	2014 08 23.11897	06 35 50.44	+05 03 44.0	13.0 N	461
C/2013 V5	2014 08 23.11931	06 35 50.52	+05 03 43.2	12.7 N	461
C/2013 V5	2014 08 23.11965	06 35 50.57	+05 03 42.3	12.6 N	461
C/2013 V5	2014 08 23.12000	06 35 50.61	+05 03 42.0	12.7 N	461
C/2013 V5	2014 08 23.17920	06 36 00.02	+05 01 44.5	11.8 N	I72
C/2013 V5	2014 08 23.18078	06 36 00.27	+05 01 41.3	11.8 N	I72
C/2013 V5	2014 08 23.18244	06 36 00.54	+05 01 38.2	11.8 N	I72
C/2013 V5	2014 08 23.42239	06 36 38.83	+04 53 37.1	13.5 N	850
C/2013 V5	2014 08 23.43094	06 36 40.23	+04 53 19.4	13.5 N	850
C/2013 V5	2014 08 23.43763	06 36 41.29	+04 53 06.0	13.4 N	850
C/2013 V5	2014 08 23.85654	06 37 49.73	+04 38 47.4	12.7 N	P25
C/2013 V5	2014 08 23.85759	06 37 49.91	+04 38 45.0	12.7 N	P25
C/2013 V5	2014 08 23.85863	06 37 50.06	+04 38 42.9	12.7 N	P25
C/2013 V5	2014 08 23.85968	06 37 50.26	+04 38 40.8	12.5 N	P25
C/2013 V5	2014 08 23.86177	06 37 50.62	+04 38 36.7	12.6 N	P25
C/2013 V5	2014 08 23.86281	06 37 50.77	+04 38 34.3	12.6 N	P25
C/2013 V5	2014 08 23.86491	06 37 51.12	+04 38 29.9	12.5 N	P25



2014 SEPT. 9

M.P.C. 89421

C/2013 V5	2014 08 23.86595	06 37 51.27	+04 38 27.7	12.7 N	P25
C/2013 V5	2014 08 23.86699	06 37 51.45	+04 38 25.5	12.6 N	P25
C/2013 V5	2014 08 23.86803	06 37 51.63	+04 38 23.2	12.6 N	P25
C/2013 V5	2014 08 23.86909	06 37 51.79	+04 38 21.1	12.5 N	P25
C/2013 V5	2014 08 23.87013	06 37 51.96	+04 38 19.1	12.6 N	P25
C/2013 V5	2014 08 23.87117	06 37 52.12	+04 38 17.0	12.8 N	P25
C/2013 V5	2014 08 24.05034	06 38 21.82	+04 31 59.6	9.1 T	C04
C/2013 V5	2014 08 24.05140	06 38 21.99	+04 31 57.2	9.1 T	C04
C/2013 V5	2014 08 24.05672	06 38 22.90	+04 31 45.8	9.1 T	C04
C/2013 V5	2014 08 24.06249	06 38 23.88	+04 31 33.6	12.2 N	C04
C/2013 V5	2014 08 24.12902	06 38 35.07	+04 29 12.2	12.8 N	C23
C/2013 V5	2014 08 24.13276	06 38 35.72	+04 29 04.9	12.7 N	C23
C/2013 V5	2014 08 24.14211	06 38 37.27	+04 28 44.9	12.7 N	C23
C/2013 V5	2014 08 24.17441	06 38 42.80	+04 27 37.7	11.7 N	I72
C/2013 V5	2014 08 24.17520	06 38 42.93	+04 27 35.7	11.7 N	I72
C/2013 V5	2014 08 24.17675	06 38 43.18	+04 27 32.8	11.7 N	I72
C/2013 V5	2014 08 24.78891	06 40 28.72	+04 05 35.7	12.3 N	Q68
C/2013 V5	2014 08 24.79026	06 40 28.94	+04 05 32.1	12.4 N	Q68
C/2013 V5	2014 08 25.17354	06 41 37.22	+03 51 05.7	11.7 N	I72
C/2013 V5	2014 08 25.17587	06 41 37.69	+03 51 00.0	11.7 N	I72
C/2013 V5	2014 08 25.17664	06 41 37.83	+03 50 58.2	11.7 N	I72
C/2013 V5	2014 08 25.18794	06 41 39.80	+03 50 32.2	12.2 N	J01
C/2013 V5	2014 08 25.18956	06 41 40.16	+03 50 29.4	12.1 N	J01
C/2013 V5	2014 08 25.19118	06 41 40.44	+03 50 26.0	12.1 N	J01
C/2013 V5	2014 08 25.87196	06 43 46.47	+03 24 05.5	12.8 N	P25
C/2013 V5	2014 08 25.87300	06 43 46.68	+03 24 03.0	12.9 N	P25
C/2013 V5	2014 08 25.87404	06 43 46.88	+03 24 00.3	12.7 N	P25
C/2013 V5	2014 08 25.87509	06 43 47.07	+03 23 59.3	12.7 N	P25
C/2013 V5	2014 08 25.87613	06 43 47.26	+03 23 55.7	13.0 N	P25
C/2013 V5	2014 08 25.87718	06 43 47.48	+03 23 53.0	13.1 N	P25
C/2013 V5	2014 08 25.87822	06 43 47.67	+03 23 49.6	12.6 N	P25
C/2013 V5	2014 08 25.87927	06 43 47.88	+03 23 48.2	13.0 N	P25
C/2013 V5	2014 08 25.88031	06 43 48.07	+03 23 45.5	13.2 N	P25
C/2013 V5	2014 08 25.88137	06 43 48.28	+03 23 43.4	13.1 N	P25
C/2013 V5	2014 08 26.16344	06 44 42.30	+03 12 24.1	11.7 N	I57
C/2013 V5	2014 08 26.17175	06 44 43.89	+03 12 03.9	11.7 N	I57
C/2013 V5	2014 08 26.17346	06 44 44.20	+03 12 00.4	11.9 N	I72
C/2013 V5	2014 08 26.17501	06 44 44.49	+03 11 55.7	11.8 N	I72
C/2013 V5	2014 08 26.17580	06 44 44.63	+03 11 54.0	11.7 N	I72
C/2013 V5	2014 08 26.17951	06 44 45.40	+03 11 45.2	11.7 N	I57
C/2013 V5	2014 08 26.84556	06 46 57.73	+02 44 11.7	13.0 N	P25
C/2013 V5	2014 08 26.84927	06 46 58.46	+02 44 02.4	12.4 N	P25
C/2013 V5	2014 08 26.85042	06 46 58.67	+02 43 59.5	12.7 N	P25
C/2013 V5	2014 08 26.85155	06 46 58.90	+02 43 56.5	12.8 N	P25
C/2013 V5	2014 08 26.85269	06 46 59.14	+02 43 53.5	12.3 N	P25
C/2013 V5	2014 08 26.85383	06 46 59.33	+02 43 50.7	12.7 N	P25
C/2013 V5	2014 08 26.85497	06 46 59.57	+02 43 47.6	12.7 N	P25
C/2013 V5	2014 08 26.85611	06 46 59.83	+02 43 44.9	12.3 N	P25
C/2013 V5	2014 08 26.85726	06 47 00.07	+02 43 42.0	12.4 N	P25
C/2013 V5	2014 08 26.85840	06 47 00.30	+02 43 39.4	12.6 N	P25
C/2013 V5	2014 08 27.13875	06 47 57.86	+02 31 35.3	12.7 N	C23
C/2013 V5	2014 08 27.13984	06 47 58.00	+02 31 33.5	12.7 N	C23
C/2013 V5	2014 08 27.14359	06 47 58.83	+02 31 22.9	12.6 N	C23

C/2013 V5	2014 08 27.15810	06 48 01.86	+02 30 45.6	12.9 N	A77
C/2013 V5	2014 08 27.16124	06 48 02.48	+02 30 37.5	13.2 N	A77
C/2013 V5	2014 08 27.16477	06 48 03.27	+02 30 29.0	13.0 N	A77
C/2013 V5	2014 08 27.16931	06 48 04.21	+02 30 17.8	11.6 N	213
C/2013 V5	2014 08 27.17728	06 48 05.85	+02 29 56.5	11.6 N	213
C/2013 V5	2014 08 27.18664	06 48 07.76	+02 29 32.1	11.6 N	213
C/2013 V5	2014 08 28.13712	06 51 33.34	+01 46 49.7	12.7 N	C23
C/2013 V5	2014 08 28.14354	06 51 34.81	+01 46 31.8	12.6 N	C23
C/2013 V5	2014 08 28.14676	06 51 35.54	+01 46 22.6	12.6 N	C23
C/2013 V5	2014 08 28.15881	06 51 38.25	+01 45 49.7	10.9 N	A77
C/2013 V5	2014 08 28.16658	06 51 39.98	+01 45 27.6	10.6 N	A77
C/2013 V5	2014 08 28.37361	06 52 27.13	+01 35 54.7	12.0 N	W96
C/2013 V5	2014 08 28.37933	06 52 28.40	+01 35 38.8	12.0 N	W96
C/2013 V5	2014 08 28.38535	06 52 29.76	+01 35 21.6	12.0 N	W96
C/2013 V5	2014 08 28.39137	06 52 31.14	+01 35 04.5	12.0 N	W96
C/2013 V5	2014 08 28.39609	06 52 32.22	+01 34 43.0	12.3 N	850
C/2013 V5	2014 08 28.39674	06 52 32.27	+01 34 51.6	12.0 T	K I47
C/2013 V5	2014 08 28.39739	06 52 32.52	+01 34 47.7	12.0 N	W96
C/2013 V5	2014 08 28.39752	06 52 32.43	+01 34 49.4	12.0 T	K I47
C/2013 V5	2014 08 28.39830	06 52 32.62	+01 34 47.3	12.2 T	K I47
C/2013 V5	2014 08 28.39892	06 52 32.75	+01 34 45.4	12.1 T	K I47
C/2013 V5	2014 08 28.39955	06 52 32.94	+01 34 43.8	12.2 T	K I47
C/2013 V5	2014 08 28.40341	06 52 33.84	+01 34 30.2	11.9 N	W96
C/2013 V5	2014 08 28.40954	06 52 35.26	+01 34 05.0	12.3 N	850
C/2013 V5	2014 08 28.42343	06 52 38.40	+01 33 25.1	12.3 N	850
C/2013 V5	2014 08 28.43537	06 52 41.15	+01 32 51.2	12.3 N	850
C/2013 V5	2014 08 28.80086	06 54 06.34	+01 15 25.5	12.8 N	; Q62
C/2013 V5	2014 08 28.80205	06 54 06.63	+01 15 21.6	12.8 N	; Q62
C/2013 V5	2014 08 28.80352	06 54 06.97	+01 15 17.6	12.8 N	; Q62
C/2013 V5	2014 08 28.80486	06 54 07.29	+01 15 13.5	12.8 N	; Q62
C/2013 V5	2014 08 29.36762	06 56 23.67	+00 47 09.4	12.2 N	W96
C/2013 V5	2014 08 29.37571	06 56 25.63	+00 46 45.1	12.2 N	W96
C/2013 V5	2014 08 29.41638	06 56 35.60	+00 44 41.9	12.1 T	K I47
C/2013 V5	2014 08 29.42119	06 56 36.75	+00 44 27.2	12.1 T	K I47
C/2013 V5	2014 08 29.42609	06 56 37.97	+00 44 12.1	12.1 T	K I47
C/2013 V5	2014 08 29.42657	06 56 38.21	+00 44 00.2	12.2 N	850
C/2013 V5	2014 08 29.43411	06 56 40.11	+00 43 37.1	12.3 N	850
C/2013 V5	2014 08 29.44167	06 56 42.00	+00 43 13.9	12.3 N	850
C/2013 V5	2014 08 30.16084	06 59 46.78	+00 05 21.8	13.0 N	A77
C/2013 V5	2014 08 30.16397	06 59 47.61	+00 05 11.8	13.1 N	A77
C/2013 V5	2014 08 30.16744	06 59 48.54	+00 05 00.9	13.1 N	A77
C/2013 V5	2014 08 30.17093	06 59 49.46	+00 04 49.5	13.1 N	A77
C/2013 V5	2014 08 31.42004	07 05 39.17	-01 05 57.0	9.4 T	K I47
C/2013 V5	2014 08 31.42189	07 05 39.65	-01 06 03.0	9.1 T	K I47
C/2013 V5	2014 08 31.42467	07 05 40.49	-01 06 13.2	9.4 T	K I47
C/2013 V5	2014 08 31.78999	07 07 30.54	-01 28 21.1	11.9 N	; Q62
C/2013 V5	2014 08 31.79082	07 07 30.76	-01 28 23.5	11.9 N	; Q62
C/2013 V5	2014 08 31.79167	07 07 31.04	-01 28 26.9	11.9 N	; Q62
C/2013 V5	2014 08 31.79250	07 07 31.29	-01 28 29.9	11.9 N	; Q62
C/2013 V5	2014 09 01.18636	07 09 34.03	-01 53 17.1	11.4 N	I72
C/2013 V5	2014 09 01.19029	07 09 35.29	-01 53 32.2	11.4 N	I72
C/2013 V5	2014 09 01.19342	07 09 36.27	-01 53 44.3	11.4 N	I72
C/2013 V5	2014 09 03.34065	07 22 13.45	-04 22 28.6	12.0 N	W96



C/2013 V5	2014 09 03.36399	07 22 22.56	-04 24 15.2	12.0 N	W96
C/2013 V5	2014 09 04.35711	07 29 12.33	-05 42 56.8	11.9 N	G30
C/2013 V5	2014 09 04.36041	07 29 13.68	-05 43 13.6	11.7 N	G30
C/2013 V5	2014 09 04.36218	07 29 14.40	-05 43 23.1	11.8 N	G30
C/2013 V5	2014 09 04.36416	07 29 15.20	-05 43 31.5	11.8 N	G30
C/2013 V5	2014 09 04.36654	07 29 16.29	-05 43 43.5	11.8 N	G30
C/2013 V5	2014 09 04.37161	07 29 18.48	-05 44 06.9	11.8 N	G30
C/2013 V5	2014 09 04.37390	07 29 19.55	-05 44 19.4	11.8 N	G30
C/2013 V5	2014 09 04.37517	07 29 20.01	-05 44 26.2	11.8 N	G30
C/2013 V5	2014 09 04.37652	07 29 20.71	-05 44 32.0	11.8 N	G30
C/2013 V5	2014 09 04.37819	07 29 21.38	-05 44 40.3	11.5 N	G30
C/2013 V5	2014 09 05.15771	07 35 14.99	-06 51 07.7	11.2 N	C10
C/2013 V5	2014 09 05.16122	07 35 16.68	-06 51 26.4	11.2 N	C10
C/2013 V5	2014 09 05.16487	07 35 18.39	-06 51 45.4	11.2 N	C10
C/2013 V5	2014 09 05.16882	07 35 20.27	-06 52 07.0	11.2 N	C10
C/2013 V5	2014 09 05.17469	07 35 23.12	-06 52 37.9	11.2 N	B92
C/2013 V5	2014 09 05.17672	07 35 24.10	-06 52 49.8	11.1 N	B92
C/2013 V5	2014 09 05.17723	07 35 24.33	-06 52 51.9	11.3 N	B92
C/2013 V5	2014 09 05.17774	07 35 24.60	-06 52 54.7	11.2 N	B92
C/2013 V5	2014 09 05.17824	07 35 24.80	-06 52 56.5	11.2 N	B92
C/2013 V5	2014 09 05.17875	07 35 25.05	-06 52 59.2	11.3 N	B92
C/2013 V5	2014 09 05.17926	07 35 25.27	-06 53 02.3	11.2 N	B92
C/2013 V5	2014 09 05.17977	07 35 25.56	-06 53 04.7	11.2 N	B92
C/2013 V5	2014 09 05.18025	07 35 25.76	-06 53 07.6	11.3 N	B92
C/2013 V5	2014 09 05.18076	07 35 26.01	-06 53 10.1	11.2 N	B92
C/2013 V5	2014 09 05.18127	07 35 26.22	-06 53 13.2	11.3 N	B92
C/2013 V5	2014 09 05.18870	07 35 29.73	-06 53 50.2	10.8 N	I99
C/2013 V5	2014 09 05.18994	07 35 30.32	-06 53 56.8	10.8 N	I99
C/2013 V5	2014 09 05.19241	07 35 31.49	-06 54 09.8	10.8 N	I99
C/2013 V5	2014 09 05.41466	07 37 18.29	-07 13 45.8	11.5 N	W96
C/2013 V5	2014 09 05.41686	07 37 19.31	-07 13 57.6	11.5 N	W96
C/2013 V5	2014 09 05.41921	07 37 20.43	-07 14 10.1	11.5 N	W96
C/2013 V5	2014 09 06.37530	07 45 30.52	-08 43 36.8	11.8 N	W96
C/2013 V5	2014 09 06.38142	07 45 33.80	-08 44 12.4	11.8 N	W96
C/2013 V5	2014 09 06.87804	07 50 09.88	-09 33 41.8	12.4 N	P25
C/2013 V5	2014 09 06.87884	07 50 10.36	-09 33 46.8	12.4 N	P25
C/2013 V5	2014 09 06.87962	07 50 10.76	-09 33 51.3	12.5 N	P25
C/2013 V5	2014 09 06.88041	07 50 11.24	-09 33 56.5	12.5 N	P25
C/2013 V5	2014 09 06.88120	07 50 11.71	-09 34 01.3	12.4 N	P25
C/2013 V5	2014 09 06.88207	07 50 12.16	-09 34 06.2	12.4 N	P25
C/2013 V5	2014 09 06.88286	07 50 12.64	-09 34 11.5	12.4 N	P25
C/2013 V5	2014 09 06.88365	07 50 13.08	-09 34 16.2	12.5 N	P25
C/2013 V5	2014 09 06.88443	07 50 13.52	-09 34 20.9	12.5 N	P25
C/2013 V5	2014 09 06.88521	07 50 13.97	-09 34 25.6	12.3 N	P25

**C/2013 X1 (PANSTARRS)**

C/2013 X1	2014 08 23.08893	06 55 41.60	+31 55 30.5	18.4 N	461
C/2013 X1	2014 08 23.10590	06 55 41.90	+31 55 31.2	18.3 N	461
C/2013 X1	2014 08 25.07953	06 56 17.77	+31 57 28.9	18.5 N	461
C/2013 X1	2014 08 25.08542	06 56 17.89	+31 57 29.1	18.4 N	461
C/2013 X1	2014 08 25.09131	06 56 17.99	+31 57 29.3	18.3 N	461

**C/2013 Y2 (PANSTARRS)**

C/2013 Y2	2014 07 19.39050	11 52 27.93	-14 58 42.4	15.2 T	15Q62
C/2013 Y2	2014 07 19.39143	11 52 28.02	-14 58 43.2	16.8 N	15Q62
C/2013 Y2	2014 08 04.40380	12 35 16.58	-15 24 50.5	17.1 N	30D90
C/2013 Y2	2014 08 04.40580	12 35 16.89	-15 24 51.3	17.1 N	30D90
C/2013 Y2	2014 08 04.40781	12 35 17.21	-15 24 51.5	17.1 N	30D90

**C/2014 A4 (SONEAR)**

C/2014 A4	2014 08 05.78763	05 34 45.93	-19 05 37.5	16.6 N	30D90
C/2014 A4	2014 08 05.79378	05 34 45.99	-19 05 38.3	16.6 N	30D90
C/2014 A4	2014 08 05.79994	05 34 46.03	-19 05 39.0	16.6 N	30D90
C/2014 A4	2014 08 27.72782	05 35 45.66	-20 10 22.9	16.5 N	30D90
C/2014 A4	2014 08 27.73397	05 35 45.59	-20 10 24.7	16.5 N	30D90
C/2014 A4	2014 08 27.73860	05 35 45.55	-20 10 25.4	16.5 N	30D90

**C/2014 B1 (Schwartz)**

C/2014 B1	2014 03 26.12752	06 11 08.02	-02 17 28.4	18.9 T	926
C/2014 B1	2014 03 26.17618	06 11 08.42	-02 17 19.8	18.4 T	926

**P/2014 E1 (Larson)**

P/2014 E1	2014 08 14.40380	14 46 30.93	-26 47 37.4	18.2 N	30D90
P/2014 E1	2014 08 14.40841	14 46 31.39	-26 47 39.6	18.2 N	30D90
P/2014 E1	2014 08 14.41303	14 46 31.84	-26 47 42.0	18.2 N	30D90
P/2014 E1	2014 08 18.29560	14 52 49.01	-27 20 52.5	18.8 N	474
P/2014 E1	2014 08 18.29701	14 52 49.15	-27 20 53.5	19.3 N	474
P/2014 E1	2014 08 18.29983	14 52 49.42	-27 20 54.6	19.1 N	474
P/2014 E1	2014 08 27.46594	15 08 30.73	-28 36 34.2	18.4 N	30D90
P/2014 E1	2014 08 27.47209	15 08 31.30	-28 36 35.2	18.4 N	30D90
P/2014 E1	2014 08 27.47825	15 08 31.98	-28 36 39.6	18.4 N	30D90

**C/2014 E2 (Jacques)**

C/2014 E2	2014 07 28.08662	05 12 34.89	+33 55 43.2	12.5 N	204
C/2014 E2	2014 07 28.08875	05 12 34.65	+33 55 48.9		204
C/2014 E2	2014 07 28.09104	05 12 34.35	+33 55 54.9		204
C/2014 E2	2014 07 28.09332	05 12 34.06	+33 56 00.8		204
C/2014 E2	2014 07 28.09560	05 12 33.75	+33 56 07.1		204
C/2014 E2	2014 08 04.08845	04 54 32.53	+39 48 12.5		204
C/2014 E2	2014 08 04.09035	04 54 32.18	+39 48 19.1		204
C/2014 E2	2014 08 04.09203	04 54 31.83	+39 48 25.0		204
C/2014 E2	2014 08 04.09413	04 54 31.46	+39 48 32.4		204
C/2014 E2	2014 08 04.09602	04 54 31.09	+39 48 39.1	12.5 N	204
C/2014 E2	2014 08 05.01407	04 51 29.71	+40 43 09.3	11.3 T	152
C/2014 E2	2014 08 05.01781	04 51 28.97	+40 43 22.7	11.4 T	152
C/2014 E2	2014 08 05.02759	04 51 26.95	+40 43 58.4	11.3 T	152
C/2014 E2	2014 08 05.03280	04 51 25.97	+40 44 18.0	11.3 T	152
C/2014 E2	2014 08 05.03867	04 51 24.67	+40 44 38.9	11.3 T	152
C/2014 E2	2014 08 05.04811	04 51 22.78	+40 45 13.5	11.4 T	152
C/2014 E2	2014 08 05.05199	04 51 21.97	+40 45 27.6	11.5 T	152
C/2014 E2	2014 08 05.95755	04 48 09.65	+41 41 31.3	11.3 T	152
C/2014 E2	2014 08 05.96361	04 48 08.30	+41 41 54.6	11.3 T	152
C/2014 E2	2014 08 05.96499	04 48 07.98	+41 42 00.4	11.4 T	152
C/2014 E2	2014 08 05.97184	04 48 06.52	+41 42 25.8	11.2 T	152
C/2014 E2	2014 08 05.98714	04 48 03.12	+41 43 24.8	11.3 T	152
C/2014 E2	2014 08 06.06293	04 47 46.45	+41 48 14.8	12.5 N	247
C/2014 E2	2014 08 06.06293	1 009.0135	+48.6257	506	247



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C/2014 E2	2014 08 06.08032	04 47 42.57	+41 49 20.9	12.5 N	247
C/2014 E2	2014 08 06.08032	1 009.0135	+48.6257	506	247
C/2014 E2	2014 08 06.16726	04 47 23.15	+41 54 56.1	10.9 N	A06
C/2014 E2	2014 08 06.17071	04 47 22.33	+41 55 09.4	10.9 N	A06
C/2014 E2	2014 08 07.14160	04 43 35.94	+42 58 27.7	11.1 N	I72
C/2014 E2	2014 08 07.14403	04 43 35.34	+42 58 37.9	11.1 N	I72
C/2014 E2	2014 08 07.14806	04 43 34.36	+42 58 53.9	11.2 N	I72
C/2014 E2	2014 08 07.97699	04 40 04.95	+43 55 09.5	7.8 N	C36
C/2014 E2	2014 08 07.97927	04 40 04.35	+43 55 19.1	7.8 N	C36
C/2014 E2	2014 08 07.98080	04 40 03.99	+43 55 24.8	7.8 N	C36
C/2014 E2	2014 08 07.98231	04 40 03.61	+43 55 31.7	7.8 N	C36
C/2014 E2	2014 08 07.98384	04 40 03.15	+43 55 38.4	7.8 N	C36
C/2014 E2	2014 08 07.98536	04 40 02.78	+43 55 44.8	7.8 N	C36
C/2014 E2	2014 08 07.98689	04 40 02.37	+43 55 51.0	7.8 N	C36
C/2014 E2	2014 08 07.98841	04 40 01.95	+43 55 57.5	7.8 N	C36
C/2014 E2	2014 08 07.98993	04 40 01.56	+43 56 03.7	7.8 N	C36
C/2014 E2	2014 08 07.99146	04 40 01.17	+43 56 09.9	7.8 N	C36
C/2014 E2	2014 08 08.06907	04 39 41.03	+44 01 33.0	10.9 N	B51
C/2014 E2	2014 08 08.07147	04 39 40.43	+44 01 43.4	10.8 N	B51
C/2014 E2	2014 08 08.07308	04 39 40.06	+44 01 50.0	10.9 N	B51
C/2014 E2	2014 08 08.07824	04 39 38.65	+44 02 11.7	10.9 N	B51
C/2014 E2	2014 08 08.07990	04 39 38.21	+44 02 18.5	10.8 N	B51
C/2014 E2	2014 08 08.08128	04 39 37.84	+44 02 24.3	10.8 N	B51
C/2014 E2	2014 08 08.08294	04 39 37.41	+44 02 31.4	10.9 N	B51
C/2014 E2	2014 08 08.08689	04 39 36.23	+44 02 49.6	10.9 N	A77
C/2014 E2	2014 08 08.09127	04 39 35.09	+44 03 08.1	10.7 N	A77
C/2014 E2	2014 08 08.09361	04 39 34.44	+44 03 17.8	11.2 N	A77
C/2014 E2	2014 08 08.09528	04 39 34.01	+44 03 24.9	10.9 N	A77
C/2014 E2	2014 08 08.09696	04 39 33.58	+44 03 31.9	10.9 N	A77
C/2014 E2	2014 08 08.10764	04 39 30.71	+44 04 16.4	11.7 N	215
C/2014 E2	2014 08 08.10889	04 39 30.34	+44 04 21.7	12.1 N	215
C/2014 E2	2014 08 08.11028	04 39 30.01	+44 04 27.7	11.7 N	215
C/2014 E2	2014 08 08.11166	04 39 29.60	+44 04 33.2	12.1 N	215
C/2014 E2	2014 08 08.11304	04 39 29.27	+44 04 39.2	11.7 N	215
C/2014 E2	2014 08 08.11443	04 39 28.90	+44 04 44.9	12.1 N	215
C/2014 E2	2014 08 08.12985	04 39 24.82	+44 05 50.0	11.6 N	KK25
C/2014 E2	2014 08 08.12988	04 39 24.76	+44 05 50.7	10.9 N	A77
C/2014 E2	2014 08 08.13318	04 39 23.97	+44 06 03.7	11.6 N	KK25
C/2014 E2	2014 08 08.13364	04 39 23.75	+44 06 06.8	10.9 N	A77
C/2014 E2	2014 08 08.13405	04 39 23.78	+44 06 07.4	10.7 N	I99
C/2014 E2	2014 08 08.13543	04 39 23.40	+44 06 13.1	10.8 N	I99
C/2014 E2	2014 08 08.13648	04 39 23.06	+44 06 18.0	11.6 N	KK25
C/2014 E2	2014 08 08.13674	04 39 23.05	+44 06 18.7	10.8 N	I99
C/2014 E2	2014 08 08.13781	04 39 22.65	+44 06 23.4	11.3 N	A77
C/2014 E2	2014 08 08.14073	04 39 22.02	+44 06 35.2	11.2 N	I72
C/2014 E2	2014 08 08.14229	04 39 21.61	+44 06 41.9	11.2 N	I72
C/2014 E2	2014 08 08.14385	04 39 21.20	+44 06 48.8	11.2 N	I72
C/2014 E2	2014 08 08.15841	04 39 17.29	+44 07 50.6	11.3 N	I57
C/2014 E2	2014 08 08.16433	04 39 15.70	+44 08 15.8	11.3 N	I57
C/2014 E2	2014 08 08.16945	04 39 14.31	+44 08 37.1	11.3 N	I57
C/2014 E2	2014 08 09.03131	04 35 15.06	+45 09 53.3	11.6 N	C47
C/2014 E2	2014 08 09.03315	04 35 14.52	+45 10 01.4	11.6 N	C47
C/2014 E2	2014 08 09.03648	04 35 13.55	+45 10 16.0	11.5 N	C47

C/2014 E2	2014 08 09.03870	04 35 12.95	+45 10 25.5	12.1 N	C47
C/2014 E2	2014 08 09.04239	04 35 11.83	+45 10 41.8	12.1 N	C47
C/2014 E2	2014 08 09.04570	04 35 10.88	+45 10 56.4	12.1 N	C47
C/2014 E2	2014 08 10.03472	04 30 10.28	+46 24 17.9	10.5 T	104
C/2014 E2	2014 08 10.04358	04 30 07.45	+46 24 58.5	10.5 T	104
C/2014 E2	2014 08 10.05279	04 30 04.49	+46 25 40.8	10.5 T	104
C/2014 E2	2014 08 10.14075	04 29 36.17	+46 32 23.7	11.4 N	I72
C/2014 E2	2014 08 10.14153	04 29 35.90	+46 32 27.3	11.4 N	I72
C/2014 E2	2014 08 10.14385	04 29 35.16	+46 32 38.3	11.4 N	I72
C/2014 E2	2014 08 10.16360	04 29 28.64	+46 34 10.0	11.1 N	A06
C/2014 E2	2014 08 10.16699	04 29 27.48	+46 34 25.2	11.1 N	A06
C/2014 E2	2014 08 10.17076	04 29 26.26	+46 34 42.6	11.1 N	A06
C/2014 E2	2014 08 10.98641	04 24 50.68	+47 37 53.1	11.5 T	152
C/2014 E2	2014 08 10.98709	04 24 50.38	+47 37 56.2	11.5 T	152
C/2014 E2	2014 08 10.99740	04 24 46.69	+47 38 45.1	11.6 T	152
C/2014 E2	2014 08 11.00569	04 24 43.86	+47 39 24.9	11.5 T	152
C/2014 E2	2014 08 11.01736	04 24 39.72	+47 40 20.3	11.5 T	152
C/2014 E2	2014 08 11.02975	04 24 35.18	+47 41 19.2	11.5 T	152
C/2014 E2	2014 08 11.03716	04 24 32.68	+47 41 54.7	11.6 T	152
C/2014 E2	2014 08 11.14071	04 23 55.86	+47 50 09.9	11.4 N	I72
C/2014 E2	2014 08 11.14223	04 23 55.30	+47 50 17.3	11.4 N	I72
C/2014 E2	2014 08 11.14376	04 23 54.75	+47 50 24.9	11.4 N	I72
C/2014 E2	2014 08 11.94717	04 18 53.25	+48 55 09.2	12.2 N	C23
C/2014 E2	2014 08 11.96615	04 18 45.89	+48 56 43.2	12.2 N	C23
C/2014 E2	2014 08 11.98263	04 18 39.25	+48 58 04.4	12.2 N	C23
C/2014 E2	2014 08 12.18699	04 17 17.89	+49 15 03.1	11.4 N	I72
C/2014 E2	2014 08 12.18872	04 17 17.18	+49 15 12.6	11.5 N	I72
C/2014 E2	2014 08 12.19035	04 17 16.56	+49 15 20.5	11.5 N	I72
C/2014 E2	2014 08 12.39337	04 15 53.27	+49 32 25.1	10.0 N	W96
C/2014 E2	2014 08 12.42353	04 15 40.73	+49 34 56.2	10.3 N	W96
C/2014 E2	2014 08 13.03075	04 11 21.02	+50 25 57.5	12.2 N	C23
C/2014 E2	2014 08 13.04348	04 11 15.35	+50 27 03.2	12.2 N	C23
C/2014 E2	2014 08 13.05997	04 11 07.94	+50 28 28.5	11.6 N	C23
C/2014 E2	2014 08 13.07690	04 11 00.36	+50 29 58.4	11.9 T	K90
C/2014 E2	2014 08 13.07862	04 10 59.58	+50 30 07.2	12.1 T	K90
C/2014 E2	2014 08 13.08130	04 10 58.38	+50 30 21.1	12.2 T	K90
C/2014 E2	2014 08 13.93879	04 04 14.40	+51 44 43.2	12.5 N	C23
C/2014 E2	2014 08 13.95526	04 04 06.21	+51 46 10.5	12.3 N	C23
C/2014 E2	2014 08 13.97025	04 03 58.75	+51 47 30.3	12.3 N	C23
C/2014 E2	2014 08 14.02532	04 03 31.45	+51 52 24.9	11.5 N	KB51
C/2014 E2	2014 08 14.02601	04 03 31.17	+51 52 28.1	11.4 N	KB51
C/2014 E2	2014 08 14.02671	04 03 30.80	+51 52 31.6	11.4 N	KB51
C/2014 E2	2014 08 14.02752	04 03 30.42	+51 52 36.0	11.4 N	KB51
C/2014 E2	2014 08 14.02824	04 03 30.04	+51 52 39.6	11.4 N	KB51
C/2014 E2	2014 08 14.02889	04 03 29.72	+51 52 43.4	11.4 N	KB51
C/2014 E2	2014 08 14.02969	04 03 29.33	+51 52 47.2	11.4 N	KB51
C/2014 E2	2014 08 14.03059	04 03 28.85	+51 52 52.6	11.4 N	KB51
C/2014 E2	2014 08 14.03176	04 03 28.25	+51 52 58.9	11.4 N	KB51
C/2014 E2	2014 08 14.18676	04 02 09.25	+52 06 48.9	11.3 N	I72
C/2014 E2	2014 08 14.18832	04 02 08.45	+52 06 57.0	11.3 N	I72
C/2014 E2	2014 08 14.18987	04 02 07.64	+52 07 05.4	11.2 N	I72
C/2014 E2	2014 08 15.04348	03 54 26.29	+53 23 43.0	11.0 N	A77
C/2014 E2	2014 08 15.04470	03 54 25.69	+53 23 50.3	11.0 N	A77



C/2014 E2	2014 08 15.04616	03 54 24.75	+53 23 58.0	11.0 N	A77	C/2014 E2	2014 08 17.08119	03 32 08.10	+56 32 27.2	12.0 N	C47
C/2014 E2	2014 08 15.04682	03 54 24.38	+53 24 02.5	11.3 N	A77	C/2014 E2	2014 08 17.08451	03 32 05.59	+56 32 46.1	12.1 N	C47
C/2014 E2	2014 08 15.04789	03 54 23.84	+53 24 07.7	11.0 N	A77	C/2014 E2	2014 08 17.08802	03 32 02.93	+56 33 05.9	12.0 N	C47
C/2014 E2	2014 08 15.04939	03 54 22.94	+53 24 16.1	11.0 N	A77	C/2014 E2	2014 08 17.18661	03 30 47.96	+56 42 23.1	11.6 N	I72
C/2014 E2	2014 08 15.04976	03 54 22.77	+53 24 18.2	11.3 N	A77	C/2014 E2	2014 08 17.18817	03 30 46.80	+56 42 31.8	11.7 N	I72
C/2014 E2	2014 08 15.05084	03 54 22.09	+53 24 23.9	11.0 N	A77	C/2014 E2	2014 08 17.18972	03 30 45.54	+56 42 41.0	11.7 N	I72
C/2014 E2	2014 08 15.05235	03 54 21.27	+53 24 32.2	11.0 N	A77	C/2014 E2	2014 08 17.87614	03 21 35.24	+57 46 42.9	13.2 N	A77
C/2014 E2	2014 08 15.05267	03 54 21.05	+53 24 33.8	7.5 T	A77	C/2014 E2	2014 08 17.87962	03 21 32.34	+57 47 02.8	13.2 N	A77
C/2014 E2	2014 08 15.05360	03 54 20.55	+53 24 39.3	11.0 N	A77	C/2014 E2	2014 08 17.88344	03 21 29.04	+57 47 24.6	13.2 N	A77
C/2014 E2	2014 08 15.05463	03 54 19.90	+53 24 44.8	11.0 N	A77	C/2014 E2	2014 08 17.88726	03 21 25.88	+57 47 46.1	13.2 N	A77
C/2014 E2	2014 08 15.06725	03 54 12.71	+53 25 54.2	11.0 N	232	C/2014 E2	2014 08 17.89107	03 21 22.72	+57 48 07.0	13.3 N	A77
C/2014 E2	2014 08 15.08007	03 54 05.34	+53 27 05.0	11.0 N	232	C/2014 E2	2014 08 17.92156	03 20 57.20	+57 50 58.8	12.5 N	K B70
C/2014 E2	2014 08 15.09003	03 53 59.61	+53 27 59.3	11.0 N	232	C/2014 E2	2014 08 17.93656	03 20 44.52	+57 52 23.4	12.4 N	K B70
C/2014 E2	2014 08 16.01682	03 44 32.45	+54 53 10.4	8.0 N	C36	C/2014 E2	2014 08 17.95398	03 20 29.76	+57 54 02.0	12.4 N	K B70
C/2014 E2	2014 08 16.01947	03 44 30.86	+54 53 25.5	8.0 N	C36	C/2014 E2	2014 08 17.95447	03 20 29.36	+57 54 04.3	11.1 N	A77
C/2014 E2	2014 08 16.02105	03 44 29.67	+54 53 34.8	8.0 N	C36	C/2014 E2	2014 08 17.95562	03 20 28.38	+57 54 10.8	11.1 N	A77
C/2014 E2	2014 08 16.02370	03 44 27.99	+54 53 48.5	8.0 N	C36	C/2014 E2	2014 08 17.95705	03 20 27.18	+57 54 18.5	11.2 N	A77
C/2014 E2	2014 08 16.02582	03 44 26.62	+54 54 00.2	8.0 N	C36	C/2014 E2	2014 08 17.95851	03 20 25.91	+57 54 27.0	11.1 N	A77
C/2014 E2	2014 08 16.02689	03 44 25.95	+54 54 05.5	8.0 N	C36	C/2014 E2	2014 08 17.95866	03 20 25.47	+57 54 28.2	10.7 N	K14
C/2014 E2	2014 08 16.11304	03 43 30.07	+55 02 05.9	13.1 N	J01	C/2014 E2	2014 08 17.95988	03 20 24.75	+57 54 34.4	11.1 N	A77
C/2014 E2	2014 08 16.11509	03 43 28.45	+55 02 18.6	11.1 N	A77	C/2014 E2	2014 08 17.96125	03 20 23.60	+57 54 42.3	11.1 N	A77
C/2014 E2	2014 08 16.11677	03 43 27.64	+55 02 26.9	13.1 N	J01	C/2014 E2	2014 08 17.96262	03 20 22.50	+57 54 50.3	11.1 N	A77
C/2014 E2	2014 08 16.11873	03 43 26.02	+55 02 39.1	11.2 N	A77	C/2014 E2	2014 08 17.96440	03 20 20.90	+57 55 00.3	11.1 N	A77
C/2014 E2	2014 08 16.12050	03 43 25.12	+55 02 47.9	13.0 N	J01	C/2014 E2	2014 08 17.96589	03 20 19.62	+57 55 08.8	11.1 N	A77
C/2014 E2	2014 08 16.12278	03 43 23.33	+55 03 01.9	11.1 N	A77	C/2014 E2	2014 08 17.97825	03 20 08.98	+57 56 20.1	12.0 N	K14
C/2014 E2	2014 08 16.13985	03 43 12.31	+55 04 36.9	11.8 N	K Z81	C/2014 E2	2014 08 18.01402	03 19 38.10	+57 59 41.2	12.1 N	C47
C/2014 E2	2014 08 16.15325	03 43 03.38	+55 05 52.1	12.0 N	K Z81	C/2014 E2	2014 08 18.01519	03 19 37.06	+57 59 47.8	11.9 N	C47
C/2014 E2	2014 08 16.18353	03 42 43.12	+55 08 42.0	12.0 N	K Z81	C/2014 E2	2014 08 18.01655	03 19 35.94	+57 59 55.5	12.5 N	C47
C/2014 E2	2014 08 16.90390	03 34 20.07	+56 15 42.8	12.3 N	C23	C/2014 E2	2014 08 18.01792	03 19 34.75	+58 00 03.2	12.1 N	C47
C/2014 E2	2014 08 16.91739	03 34 10.21	+56 16 59.2	12.4 N	C23	C/2014 E2	2014 08 18.01929	03 19 33.57	+58 00 10.7	12.4 N	C47
C/2014 E2	2014 08 16.93312	03 33 58.58	+56 18 28.5	12.3 N	C23	C/2014 E2	2014 08 18.02065	03 19 32.39	+58 00 18.6	12.0 N	C47
C/2014 E2	2014 08 17.01828	03 32 55.45	+56 26 31.5	12.5 N	C47	C/2014 E2	2014 08 18.09887	03 18 24.48	+58 07 39.2	10.8 N	B53
C/2014 E2	2014 08 17.01975	03 32 54.34	+56 26 39.7	11.9 N	C47	C/2014 E2	2014 08 18.10194	03 18 21.81	+58 07 56.5	10.5 N	B53
C/2014 E2	2014 08 17.02160	03 32 52.98	+56 26 50.6	11.7 N	C47	C/2014 E2	2014 08 18.10501	03 18 19.17	+58 08 14.1	10.8 N	B53
C/2014 E2	2014 08 17.02344	03 32 51.59	+56 27 00.8	11.6 N	C47	C/2014 E2	2014 08 18.10808	03 18 16.34	+58 08 32.1	10.6 N	B53
C/2014 E2	2014 08 17.02412	03 32 51.25	+56 27 04.4	11.9 N	K 160	C/2014 E2	2014 08 18.18815	03 17 06.17	+58 15 59.4	11.9 N	I72
C/2014 E2	2014 08 17.02680	03 32 49.25	+56 27 19.6	11.8 N	K 160	C/2014 E2	2014 08 18.18892	03 17 05.41	+58 16 04.3	12.0 N	I72
C/2014 E2	2014 08 17.02948	03 32 47.23	+56 27 34.9	12.0 N	K 160	C/2014 E2	2014 08 18.18970	03 17 04.80	+58 16 08.1	12.0 N	I72
C/2014 E2	2014 08 17.03466	03 32 43.07	+56 28 03.9	9.5 T	104	C/2014 E2	2014 08 18.61102	03 10 43.17	+58 55 02.5		D81
C/2014 E2	2014 08 17.04605	03 32 34.49	+56 29 08.8	9.5 T	104	C/2014 E2	2014 08 18.61161	03 10 42.61	+58 55 05.6		D81
C/2014 E2	2014 08 17.04953	03 32 32.18	+56 29 27.9	11.6 N	C90	C/2014 E2	2014 08 18.61219	03 10 42.19	+58 55 09.1		D81
C/2014 E2	2014 08 17.05506	03 32 27.74	+56 29 59.9	9.5 T	104	C/2014 E2	2014 08 18.61278	03 10 41.69	+58 55 11.7	6.8 T	D81
C/2014 E2	2014 08 17.05575	03 32 27.79	+56 30 02.8	11.2 N	J24	C/2014 E2	2014 08 18.84600	03 06 59.24	+59 16 32.5	9.3 N	A98
C/2014 E2	2014 08 17.05735	03 32 26.46	+56 30 12.1	11.4 N	I99	C/2014 E2	2014 08 18.84630	03 06 58.95	+59 16 34.1	9.3 N	A98
C/2014 E2	2014 08 17.05740	03 32 26.35	+56 30 12.6	11.6 N	C90	C/2014 E2	2014 08 18.84659	03 06 58.67	+59 16 35.7	9.4 N	A98
C/2014 E2	2014 08 17.05921	03 32 25.04	+56 30 22.3	11.4 N	I99	C/2014 E2	2014 08 18.84749	03 06 57.85	+59 16 40.5	9.3 N	A98
C/2014 E2	2014 08 17.05940	03 32 24.71	+56 30 24.4	12.2 N	K 160	C/2014 E2	2014 08 18.84779	03 06 57.59	+59 16 42.2	9.4 N	A98
C/2014 E2	2014 08 17.06108	03 32 23.65	+56 30 32.9	11.4 N	I99	C/2014 E2	2014 08 18.84808	03 06 57.28	+59 16 44.0	9.5 N	A98
C/2014 E2	2014 08 17.06175	03 32 22.94	+56 30 37.7	12.2 N	K 160	C/2014 E2	2014 08 18.84868	03 06 56.63	+59 16 47.4	9.4 N	A98
C/2014 E2	2014 08 17.06408	03 32 21.23	+56 30 50.8	12.2 N	K 160	C/2014 E2	2014 08 18.84898	03 06 56.39	+59 16 48.8	9.5 N	A98
C/2014 E2	2014 08 17.06569	03 32 20.34	+56 30 58.8	11.2 N	J24	C/2014 E2	2014 08 18.85017	03 06 55.17	+59 16 55.6	9.2 N	A98
C/2014 E2	2014 08 17.06696	03 32 19.12	+56 31 07.5	11.6 N	C90	C/2014 E2	2014 08 18.85076	03 06 54.72	+59 16 58.8	9.4 N	A98
C/2014 E2	2014 08 17.07562	03 32 12.87	+56 31 55.7	11.2 N	J24	C/2014 E2	2014 08 18.85106	03 06 54.34	+59 17 00.4	9.4 N	A98



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C/2014 E2	2014 08 18.85197	03 06 53.55	+59 17 05.2	9.4 N	A98
C/2014 E2	2014 08 18.85315	03 06 52.37	+59 17 11.6	9.5 N	A98
C/2014 E2	2014 08 18.85522	03 06 50.30	+59 17 23.4	9.3 N	A98
C/2014 E2	2014 08 18.85605	03 06 49.55	+59 17 27.8	9.5 N	A98
C/2014 E2	2014 08 18.87256	03 06 33.41	+59 18 56.8	12.9 N	C23
C/2014 E2	2014 08 18.87377	03 06 32.32	+59 19 02.9	12.9 N	C23
C/2014 E2	2014 08 18.87457	03 06 31.45	+59 19 07.1	12.9 N	C23
C/2014 E2	2014 08 19.02896	03 03 59.60	+59 33 21.5	12.1 N	585
C/2014 E2	2014 08 19.02935	03 03 59.19	+59 33 23.6	12.1 N	585
C/2014 E2	2014 08 19.02974	03 03 58.82	+59 33 26.0	12.1 N	585
C/2014 E2	2014 08 19.03202	03 03 56.54	+59 33 38.2	12.1 N	585
C/2014 E2	2014 08 19.03372	03 03 54.84	+59 33 47.4	12.1 N	585
C/2014 E2	2014 08 19.03384	03 03 54.69	+59 33 48.4	12.1 N	585
C/2014 E2	2014 08 19.03411	03 03 54.44	+59 33 49.9	12.1 N	585
C/2014 E2	2014 08 19.03450	03 03 54.05	+59 33 51.7	12.1 N	585
C/2014 E2	2014 08 19.03544	03 03 53.12	+59 33 57.0	12.1 N	585
C/2014 E2	2014 08 19.03569	03 03 52.88	+59 33 58.4	12.1 N	585
C/2014 E2	2014 08 19.03609	03 03 52.46	+59 34 00.5	12.1 N	585
C/2014 E2	2014 08 19.03635	03 03 52.22	+59 34 02.2	12.1 N	585
C/2014 E2	2014 08 19.03661	03 03 51.96	+59 34 03.3	12.1 N	585
C/2014 E2	2014 08 19.03730	03 03 51.26	+59 34 07.2	12.1 N	585
C/2014 E2	2014 08 19.04501	03 03 43.50	+59 34 49.5	12.1 N	585
C/2014 E2	2014 08 19.04553	03 03 43.03	+59 34 52.4	12.1 N	585
C/2014 E2	2014 08 19.04593	03 03 42.61	+59 34 54.6	12.1 N	585
C/2014 E2	2014 08 19.04672	03 03 41.79	+59 34 59.1	12.1 N	585
C/2014 E2	2014 08 19.58720	02 54 22.76	+60 23 26.6	8.1 T	D95
C/2014 E2	2014 08 19.58939	02 54 20.42	+60 23 38.3		D95
C/2014 E2	2014 08 19.59376	02 54 15.67	+60 24 01.9		D95
C/2014 E2	2014 08 19.62109	02 53 46.25	+60 26 28.4		900
C/2014 E2	2014 08 19.62843	02 53 38.28	+60 27 07.9	8.3 T	900
C/2014 E2	2014 08 19.84780	02 49 36.61	+60 46 18.9	13.9 N	L22
C/2014 E2	2014 08 19.84949	02 49 34.69	+60 46 28.0	13.8 N	L22
C/2014 E2	2014 08 19.85117	02 49 32.91	+60 46 36.3	13.7 N	L22
C/2014 E2	2014 08 19.85286	02 49 30.99	+60 46 46.5	13.7 N	L22
C/2014 E2	2014 08 19.85455	02 49 29.03	+60 46 55.0	13.7 N	L22
C/2014 E2	2014 08 19.85624	02 49 27.17	+60 47 03.6	13.4 N	L22
C/2014 E2	2014 08 19.85792	02 49 25.33	+60 47 12.1	13.4 N	L22
C/2014 E2	2014 08 19.85961	02 49 23.34	+60 47 20.6	13.7 N	L22
C/2014 E2	2014 08 19.86130	02 49 21.28	+60 47 31.1	13.6 N	L22
C/2014 E2	2014 08 19.86297	02 49 19.54	+60 47 39.7	13.7 N	L22
C/2014 E2	2014 08 19.86466	02 49 17.68	+60 47 47.4	13.6 N	L22
C/2014 E2	2014 08 19.86635	02 49 15.91	+60 47 56.3	13.8 N	L22
C/2014 E2	2014 08 19.86804	02 49 13.96	+60 48 06.1	13.6 N	L22
C/2014 E2	2014 08 19.86972	02 49 12.04	+60 48 15.3	13.6 N	L22
C/2014 E2	2014 08 19.87156	02 49 09.91	+60 48 24.4	13.6 N	L22
C/2014 E2	2014 08 19.87325	02 49 08.14	+60 48 33.7	13.4 N	L22
C/2014 E2	2014 08 19.87493	02 49 06.07	+60 48 42.4	13.6 N	L22
C/2014 E2	2014 08 19.87646	02 49 04.68	+60 48 46.8	12.1 N	C86
C/2014 E2	2014 08 19.87662	02 49 04.24	+60 48 50.3	13.9 N	L22
C/2014 E2	2014 08 19.87686	02 49 04.19	+60 48 49.0	12.2 N	C86
C/2014 E2	2014 08 19.87828	02 49 02.55	+60 48 56.5	12.1 N	C86
C/2014 E2	2014 08 19.87833	02 49 02.33	+60 49 00.6	13.7 N	L22
C/2014 E2	2014 08 19.88001	02 49 00.57	+60 49 09.4	13.5 N	L22

C/2014 E2	2014 08 19.95855	02 47 31.93	+60 55 58.5	12.4 N	C23
C/2014 E2	2014 08 19.97231	02 47 16.21	+60 57 10.2	12.4 N	C23
C/2014 E2	2014 08 19.97495	02 47 13.13	+60 57 28.0	13.8 N	C73
C/2014 E2	2014 08 19.97575	02 47 12.18	+60 57 32.0	14.0 N	C73
C/2014 E2	2014 08 19.97655	02 47 11.37	+60 57 36.3	14.0 N	C73
C/2014 E2	2014 08 19.97837	02 47 09.31	+60 57 45.4	13.9 N	C73
C/2014 E2	2014 08 19.98058	02 47 06.70	+60 57 57.2	13.9 N	C73
C/2014 E2	2014 08 19.98138	02 47 05.83	+60 58 01.3	13.9 N	C73
C/2014 E2	2014 08 19.98218	02 47 05.03	+60 58 05.2	14.0 N	C73
C/2014 E2	2014 08 19.98297	02 47 04.00	+60 58 10.0	14.0 N	C73
C/2014 E2	2014 08 19.98377	02 47 03.15	+60 58 14.0	14.0 N	C73
C/2014 E2	2014 08 19.98457	02 47 02.14	+60 58 18.1	13.9 N	C73
C/2014 E2	2014 08 19.98537	02 47 01.28	+60 58 22.2	14.0 N	C73
C/2014 E2	2014 08 19.98617	02 47 00.24	+60 58 26.9	14.0 N	C73
C/2014 E2	2014 08 19.98697	02 46 59.36	+60 58 31.0	13.9 N	C73
C/2014 E2	2014 08 19.98777	02 46 58.64	+60 58 34.2	14.0 N	C73
C/2014 E2	2014 08 19.98856	02 46 57.50	+60 58 39.1	13.9 N	C73
C/2014 E2	2014 08 19.98899	02 46 57.24	+60 58 37.6	12.5 N	C23
C/2014 E2	2014 08 19.98936	02 46 56.80	+60 58 42.9	13.9 N	C73
C/2014 E2	2014 08 19.99016	02 46 55.66	+60 58 47.8	14.0 N	C73
C/2014 E2	2014 08 19.99096	02 46 54.88	+60 58 51.6	14.0 N	C73
C/2014 E2	2014 08 19.99176	02 46 54.01	+60 58 55.6	14.0 N	C73
C/2014 E2	2014 08 19.99256	02 46 53.03	+60 58 59.7	14.0 N	C73
C/2014 E2	2014 08 19.99336	02 46 52.05	+60 59 04.3	14.1 N	C73
C/2014 E2	2014 08 19.99416	02 46 51.25	+60 59 08.2	13.9 N	C73
C/2014 E2	2014 08 19.99495	02 46 50.37	+60 59 12.3	14.0 N	C73
C/2014 E2	2014 08 19.99506	02 46 49.21	+60 59 15.5	11.8 T	152
C/2014 E2	2014 08 19.99575	02 46 49.41	+60 59 16.4	14.0 N	C73
C/2014 E2	2014 08 19.99655	02 46 48.40	+60 59 20.6	14.0 N	C73
C/2014 E2	2014 08 19.99735	02 46 47.49	+60 59 25.1	14.0 N	C73
C/2014 E2	2014 08 19.99814	02 46 46.61	+60 59 29.1	14.0 N	C73
C/2014 E2	2014 08 19.99895	02 46 45.78	+60 59 33.1	14.0 N	C73
C/2014 E2	2014 08 19.99975	02 46 44.80	+60 59 37.3	13.8 N	C73
C/2014 E2	2014 08 20.00054	02 46 43.87	+60 59 41.8	14.0 N	C73
C/2014 E2	2014 08 20.00130	02 46 42.75	+60 59 44.9	11.9 T	152
C/2014 E2	2014 08 20.00133	02 46 42.92	+60 59 46.0	13.9 N	C73
C/2014 E2	2014 08 20.00293	02 46 41.20	+60 59 53.8	14.0 N	C73
C/2014 E2	2014 08 20.00453	02 46 39.20	+61 00 02.6	13.9 N	C73
C/2014 E2	2014 08 20.00477	02 46 38.75	+61 00 02.9	12.0 T	152
C/2014 E2	2014 08 20.00612	02 46 37.50	+61 00 10.6	13.9 N	C73
C/2014 E2	2014 08 20.00772	02 46 35.55	+61 00 19.2	13.8 N	C73
C/2014 E2	2014 08 20.00851	02 46 34.48	+61 00 22.4	12.1 T	152
C/2014 E2	2014 08 20.00932	02 46 33.74	+61 00 27.3	13.9 N	C73
C/2014 E2	2014 08 20.01091	02 46 31.89	+61 00 35.9	14.0 N	C73
C/2014 E2	2014 08 20.01178	02 46 30.73	+61 00 39.4	12.2 T	152
C/2014 E2	2014 08 20.01251	02 46 30.11	+61 00 44.0	13.9 N	C73
C/2014 E2	2014 08 20.01411	02 46 28.29	+61 00 52.0	14.0 N	C73
C/2014 E2	2014 08 20.01527	02 46 26.74	+61 00 57.6	12.3 T	152
C/2014 E2	2014 08 20.01571	02 46 26.40	+61 01 00.9	13.9 N	C73
C/2014 E2	2014 08 20.01730	02 46 24.66	+61 01 08.7	13.9 N	C73
C/2014 E2	2014 08 20.01807	02 46 23.50	+61 01 12.1	12.3 T	152
C/2014 E2	2014 08 20.01810	02 46 23.66	+61 01 13.4	13.9 N	C73
C/2014 E2	2014 08 20.01890	02 46 22.65	+61 01 17.6	13.9 N	C73



C/2014 E2	2014 08 20.01970	02 46 21.78	+61 01 21.5	13.9 N	C73	C/2014 E2	2014 08 20.91652	02 28 07.91	+62 15 44.0	12.4 N	L22
C/2014 E2	2014 08 20.02050	02 46 20.91	+61 01 25.6	14.0 N	C73	C/2014 E2	2014 08 20.91819	02 28 05.69	+62 15 52.1	13.8 N	L22
C/2014 E2	2014 08 20.02130	02 46 20.07	+61 01 29.5	13.9 N	C73	C/2014 E2	2014 08 20.91904	02 28 04.60	+62 15 56.3	13.6 N	L22
C/2014 E2	2014 08 20.02209	02 46 19.02	+61 01 34.0	13.9 N	C73	C/2014 E2	2014 08 20.91991	02 28 02.87	+62 15 58.8	12.4 N	B96
C/2014 E2	2014 08 20.02237	02 46 18.76	+61 01 35.0	12.4 T	152	C/2014 E2	2014 08 20.92073	02 28 02.30	+62 16 04.6	13.8 N	L22
C/2014 E2	2014 08 20.02289	02 46 18.13	+61 01 38.1	13.9 N	C73	C/2014 E2	2014 08 20.92242	02 28 00.13	+62 16 12.4	13.6 N	L22
C/2014 E2	2014 08 20.02369	02 46 17.27	+61 01 42.0	14.0 N	C73	C/2014 E2	2014 08 20.92330	02 27 58.44	+62 16 14.8	12.4 N	B96
C/2014 E2	2014 08 20.02449	02 46 16.28	+61 01 46.6	13.9 N	C73	C/2014 E2	2014 08 20.92410	02 27 57.96	+62 16 20.9	13.6 N	L22
C/2014 E2	2014 08 20.02529	02 46 15.39	+61 01 50.7	14.0 N	C73	C/2014 E2	2014 08 20.92663	02 27 54.51	+62 16 32.8	13.6 N	L22
C/2014 E2	2014 08 20.02609	02 46 14.51	+61 01 54.7	14.0 N	C73	C/2014 E2	2014 08 20.92668	02 27 54.07	+62 16 31.2	12.3 N	B96
C/2014 E2	2014 08 20.02689	02 46 13.54	+61 01 58.8	14.0 N	C73	C/2014 E2	2014 08 20.92832	02 27 52.46	+62 16 40.9	13.5 N	L22
C/2014 E2	2014 08 20.02769	02 46 12.65	+61 02 03.3	13.9 N	C73	C/2014 E2	2014 08 20.93084	02 27 48.96	+62 16 53.6	13.8 N	L22
C/2014 E2	2014 08 20.08384	02 45 07.96	+61 06 53.1	11.1 N	A77	C/2014 E2	2014 08 20.93253	02 27 47.04	+62 17 01.4	13.6 N	L22
C/2014 E2	2014 08 20.08551	02 45 06.02	+61 07 02.0	11.2 N	A77	C/2014 E2	2014 08 20.93332	02 27 45.49	+62 17 03.2	12.3 N	B96
C/2014 E2	2014 08 20.08821	02 45 02.91	+61 07 16.1	11.2 N	A77	C/2014 E2	2014 08 20.93387	02 27 45.48	+62 17 04.3	12.8 N	K35
C/2014 E2	2014 08 20.17700	02 43 19.19	+61 14 53.1	12.0 N	I72	C/2014 E2	2014 08 20.93670	02 27 41.07	+62 17 19.3	12.3 N	B96
C/2014 E2	2014 08 20.17778	02 43 18.29	+61 14 57.5	11.9 N	I72	C/2014 E2	2014 08 20.94015	02 27 36.58	+62 17 35.9	12.3 N	B96
C/2014 E2	2014 08 20.17934	02 43 16.46	+61 15 05.1	12.0 N	I72	C/2014 E2	2014 08 20.94183	02 27 34.99	+62 17 42.4	12.8 N	K35
C/2014 E2	2014 08 20.46896	02 37 30.46	+61 39 28.3	11.6 N	8 U69	C/2014 E2	2014 08 20.94354	02 27 32.13	+62 17 52.1	12.3 N	B96
C/2014 E2	2014 08 20.46940	02 37 29.93	+61 39 30.5	11.6 N	8 U69	C/2014 E2	2014 08 20.94693	02 27 27.70	+62 18 08.2	12.3 N	B96
C/2014 E2	2014 08 20.46978	02 37 29.48	+61 39 32.3	11.6 N	8 U69	C/2014 E2	2014 08 20.95032	02 27 23.32	+62 18 24.8	12.3 N	B96
C/2014 E2	2014 08 20.47015	02 37 29.01	+61 39 34.2	11.6 N	8 U69	C/2014 E2	2014 08 20.95150	02 27 22.40	+62 18 28.8	12.6 N	K35
C/2014 E2	2014 08 20.47052	02 37 28.57	+61 39 36.3	11.6 N	8 U69	C/2014 E2	2014 08 20.95370	02 27 18.87	+62 18 40.8	12.3 N	B96
C/2014 E2	2014 08 20.51350	02 36 36.98	+61 42 57.4		D81	C/2014 E2	2014 08 20.95709	02 27 14.53	+62 18 57.1	12.3 N	B96
C/2014 E2	2014 08 20.51409	02 36 36.21	+61 43 00.6		D81	C/2014 E2	2014 08 20.96047	02 27 10.09	+62 19 13.4	12.3 N	B96
C/2014 E2	2014 08 20.51586	02 36 34.01	+61 43 10.0		D81	C/2014 E2	2014 08 20.96385	02 27 05.67	+62 19 29.3	12.3 N	B96
C/2014 E2	2014 08 20.51644	02 36 33.31	+61 43 11.5	6.5 T	D81	C/2014 E2	2014 08 20.96736	02 27 01.04	+62 19 46.1	12.3 N	B96
C/2014 E2	2014 08 20.84983	02 29 34.10	+62 10 20.9	11.8 T	152	C/2014 E2	2014 08 20.97082	02 26 56.53	+62 20 02.4	12.6 N	B96
C/2014 E2	2014 08 20.85598	02 29 25.98	+62 10 50.9	11.8 T	152	C/2014 E2	2014 08 20.97211	02 26 55.51	+62 20 06.4	12.4 N	C23
C/2014 E2	2014 08 20.86642	02 29 12.58	+62 11 41.4	11.8 T	152	C/2014 E2	2014 08 20.98189	02 26 42.76	+62 20 52.9	12.4 N	C23
C/2014 E2	2014 08 20.87575	02 29 00.58	+62 12 26.4	11.8 T	152	C/2014 E2	2014 08 20.98617	02 26 37.61	+62 21 13.0	11.8 N	A77
C/2014 E2	2014 08 20.88139	02 28 53.34	+62 12 53.4	11.8 T	152	C/2014 E2	2014 08 20.98729	02 26 36.14	+62 21 19.0	11.7 N	A77
C/2014 E2	2014 08 20.88868	02 28 43.84	+62 13 28.7	11.8 T	152	C/2014 E2	2014 08 20.98872	02 26 34.27	+62 21 25.5	11.8 N	A77
C/2014 E2	2014 08 20.89455	02 28 36.22	+62 13 57.0	11.8 T	152	C/2014 E2	2014 08 20.99014	02 26 32.45	+62 21 32.6	11.8 N	A77
C/2014 E2	2014 08 20.89553	02 28 35.43	+62 13 59.1	12.1 N	C77	C/2014 E2	2014 08 20.99154	02 26 30.53	+62 21 38.8	11.9 N	A77
C/2014 E2	2014 08 20.89603	02 28 34.77	+62 14 02.2	12.1 N	C77	C/2014 E2	2014 08 20.99456	02 26 26.05	+62 21 53.5	12.1 N	C23
C/2014 E2	2014 08 20.89628	02 28 33.90	+62 14 07.9	13.6 N	L22	C/2014 E2	2014 08 21.02600	02 25 44.77	+62 24 22.7	10.8 N	C10
C/2014 E2	2014 08 20.89667	02 28 33.85	+62 14 04.4	12.1 N	C77	C/2014 E2	2014 08 21.02979	02 25 39.74	+62 24 40.7	10.8 N	C10
C/2014 E2	2014 08 20.89715	02 28 33.21	+62 14 07.6	12.1 N	C77	C/2014 E2	2014 08 21.03281	02 25 36.00	+62 24 55.6	11.8 N	Z74
C/2014 E2	2014 08 20.89796	02 28 31.73	+62 14 13.3	13.7 N	L22	C/2014 E2	2014 08 21.03311	02 25 35.63	+62 24 57.1	11.8 N	Z74
C/2014 E2	2014 08 20.89965	02 28 29.72	+62 14 22.1	13.6 N	L22	C/2014 E2	2014 08 21.03342	02 25 35.25	+62 24 58.5	11.9 N	Z74
C/2014 E2	2014 08 20.90087	02 28 28.05	+62 14 27.2	11.8 T	152	C/2014 E2	2014 08 21.03372	02 25 34.83	+62 25 00.0	11.9 N	Z74
C/2014 E2	2014 08 20.90134	02 28 27.58	+62 14 31.0	13.6 N	L22	C/2014 E2	2014 08 21.03402	02 25 34.42	+62 25 01.5	11.9 N	Z74
C/2014 E2	2014 08 20.90302	02 28 25.13	+62 14 39.2	13.7 N	L22	C/2014 E2	2014 08 21.03411	02 25 34.04	+62 25 01.1	10.8 N	C10
C/2014 E2	2014 08 20.90387	02 28 24.23	+62 14 43.6	13.7 N	L22	C/2014 E2	2014 08 21.03432	02 25 34.02	+62 25 02.8	11.7 N	Z74
C/2014 E2	2014 08 20.90556	02 28 22.02	+62 14 51.7	13.7 N	L22	C/2014 E2	2014 08 21.03462	02 25 33.59	+62 25 04.3	11.8 N	Z74
C/2014 E2	2014 08 20.90725	02 28 19.79	+62 14 59.9	13.7 N	L22	C/2014 E2	2014 08 21.03494	02 25 33.22	+62 25 05.7	11.8 N	Z74
C/2014 E2	2014 08 20.90894	02 28 17.82	+62 15 06.9	13.7 N	L22	C/2014 E2	2014 08 21.03524	02 25 32.82	+62 25 07.0	11.8 N	Z74
C/2014 E2	2014 08 20.90979	02 28 16.58	+62 15 10.7	11.8 T	152	C/2014 E2	2014 08 21.03554	02 25 32.40	+62 25 08.7	11.8 N	Z74
C/2014 E2	2014 08 20.91061	02 28 15.50	+62 15 15.8	13.5 N	L22	C/2014 E2	2014 08 21.03853	02 25 28.19	+62 25 22.1	10.8 N	C10
C/2014 E2	2014 08 20.91146	02 28 14.05	+62 15 19.3	12.5 N	L22	C/2014 E2	2014 08 21.04269	02 25 22.69	+62 25 41.6	10.8 N	C10
C/2014 E2	2014 08 20.91315	02 28 12.31	+62 15 27.7	12.3 N	L22	C/2014 E2	2014 08 21.04713	02 25 16.79	+62 26 02.7	10.8 N	C10
C/2014 E2	2014 08 20.91483	02 28 10.16	+62 15 35.5	13.6 N	L22	C/2014 E2	2014 08 21.05152	02 25 10.97	+62 26 23.4	10.8 N	C10



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C/2014 E2	2014 08 21.05571	02 25 05.43	+62 26 43.1	10.8 N	C10
C/2014 E2	2014 08 21.05986	02 24 59.89	+62 27 02.7	10.8 N	C10
C/2014 E2	2014 08 21.06405	02 24 54.33	+62 27 22.4	10.8 N	C10
C/2014 E2	2014 08 21.06811	02 24 48.93	+62 27 41.5	10.8 N	C10
C/2014 E2	2014 08 21.11388	02 23 47.74	+62 31 17.6	11.8 N	A77
C/2014 E2	2014 08 21.11764	02 23 42.67	+62 31 35.3	11.5 N	A77
C/2014 E2	2014 08 21.17698	02 22 22.96	+62 36 10.4	11.9 N	I72
C/2014 E2	2014 08 21.17775	02 22 21.76	+62 36 14.6	11.9 N	I72
C/2014 E2	2014 08 21.17854	02 22 20.76	+62 36 18.0	11.9 N	I72
C/2014 E2	2014 08 21.85810	02 06 26.88	+63 25 38.6	13.1 N	K61
C/2014 E2	2014 08 21.85968	02 06 24.59	+63 25 45.1	12.0 N	K61
C/2014 E2	2014 08 21.86001	02 06 24.04	+63 25 46.2	13.1 N	K61
C/2014 E2	2014 08 21.86141	02 06 21.98	+63 25 52.4	13.1 N	K61
C/2014 E2	2014 08 21.86313	02 06 19.47	+63 25 59.7	13.1 N	K61
C/2014 E2	2014 08 21.86486	02 06 17.01	+63 26 06.8	11.9 N	K61
C/2014 E2	2014 08 21.86659	02 06 14.42	+63 26 13.9	12.0 N	K61
C/2014 E2	2014 08 21.86831	02 06 11.91	+63 26 21.0	12.0 N	K61
C/2014 E2	2014 08 21.88052	02 05 54.08	+63 27 12.1	12.0 N	C47
C/2014 E2	2014 08 21.88208	02 05 51.79	+63 27 18.6	12.1 N	C47
C/2014 E2	2014 08 21.88364	02 05 49.47	+63 27 25.0	12.0 N	C47
C/2014 E2	2014 08 21.88520	02 05 47.18	+63 27 31.6	11.9 N	C47
C/2014 E2	2014 08 21.88676	02 05 44.90	+63 27 38.0	12.0 N	C47
C/2014 E2	2014 08 21.88852	02 05 42.29	+63 27 45.3	12.0 N	C47
C/2014 E2	2014 08 22.09854	02 00 28.04	+63 41 57.3	11.8 N	A77
C/2014 E2	2014 08 22.10038	02 00 25.24	+63 42 05.3	11.9 N	A77
C/2014 E2	2014 08 22.10147	02 00 23.63	+63 42 09.2	11.9 N	A77
C/2014 E2	2014 08 22.10322	02 00 20.94	+63 42 15.7	11.8 N	A77
C/2014 E2	2014 08 22.10470	02 00 18.68	+63 42 21.5	11.8 N	A77
C/2014 E2	2014 08 22.10557	02 00 17.35	+63 42 24.9	11.8 N	A77
C/2014 E2	2014 08 22.10676	02 00 15.56	+63 42 29.7	11.8 N	A77
C/2014 E2	2014 08 22.50862	01 49 54.47	+64 07 22.9		367
C/2014 E2	2014 08 22.51105	01 49 50.62	+64 07 31.7		367
C/2014 E2	2014 08 22.51348	01 49 46.78	+64 07 40.4	8.0 T	367
C/2014 E2	2014 08 22.87508	01 40 01.33	+64 28 00.0	13.1 N	K40
C/2014 E2	2014 08 22.92458	01 38 39.37	+64 30 38.8	13.2 N	K40
C/2014 E2	2014 08 22.92882	01 38 32.15	+64 30 53.8	9.5 N	A98
C/2014 E2	2014 08 22.92922	01 38 31.49	+64 30 54.9	9.5 N	A98
C/2014 E2	2014 08 22.93006	01 38 30.00	+64 30 57.4	9.2 N	A98
C/2014 E2	2014 08 22.93088	01 38 28.52	+64 30 59.9	9.3 N	A98
C/2014 E2	2014 08 22.93130	01 38 27.96	+64 31 02.1	9.5 N	A98
C/2014 E2	2014 08 22.93253	01 38 25.89	+64 31 05.3	9.2 N	A98
C/2014 E2	2014 08 22.93292	01 38 25.16	+64 31 06.5	9.5 N	A98
C/2014 E2	2014 08 22.93363	01 38 24.04	+64 31 08.8	9.5 N	A98
C/2014 E2	2014 08 22.93399	01 38 23.41	+64 31 10.2	9.5 N	A98
C/2014 E2	2014 08 22.93469	01 38 22.34	+64 31 12.4	9.5 N	A98
C/2014 E2	2014 08 22.93505	01 38 21.75	+64 31 13.4	9.4 N	A98
C/2014 E2	2014 08 22.93541	01 38 21.11	+64 31 15.2	9.5 N	A98
C/2014 E2	2014 08 22.93577	01 38 20.47	+64 31 15.6	9.5 N	A98
C/2014 E2	2014 08 22.93612	01 38 19.93	+64 31 16.9	9.5 N	A98
C/2014 E2	2014 08 22.93648	01 38 19.37	+64 31 18.2	9.5 N	A98
C/2014 E2	2014 08 23.06066	01 34 52.01	+64 37 40.9	11.4 N	I99
C/2014 E2	2014 08 23.06255	01 34 48.86	+64 37 46.6	11.4 N	I99
C/2014 E2	2014 08 23.06537	01 34 44.11	+64 37 55.6	11.4 N	I99

C/2014 E2	2014 08 23.99972	01 07 24.85	+65 15 31.3	12.8 N	J87
C/2014 E2	2014 08 24.00351	01 07 17.61	+65 15 38.2	12.6 N	J01
C/2014 E2	2014 08 24.00416	01 07 16.75	+65 15 39.5	12.8 N	J87
C/2014 E2	2014 08 24.00650	01 07 12.30	+65 15 43.2	12.6 N	J01
C/2014 E2	2014 08 24.00902	01 07 07.76	+65 15 48.5	12.9 N	J87
C/2014 E2	2014 08 24.00950	01 07 07.08	+65 15 48.8	12.6 N	J01
C/2014 E2	2014 08 24.03224	01 06 24.80	+65 16 29.7	12.4 N	C23
C/2014 E2	2014 08 24.04203	01 06 06.72	+65 16 48.0	11.9 N	C23
C/2014 E2	2014 08 24.05181	01 05 48.87	+65 17 04.9	12.1 N	C23
C/2014 E2	2014 08 24.16894	01 02 12.96	+65 20 23.3	11.6 N	I72
C/2014 E2	2014 08 24.17127	01 02 08.60	+65 20 26.8	11.6 N	I72
C/2014 E2	2014 08 24.17206	01 02 06.82	+65 20 28.5	11.7 N	I72
C/2014 E2	2014 08 24.30195	00 58 07.93	+65 23 43.0	11.8 N	KH47
C/2014 E2	2014 08 24.30257	00 58 06.79	+65 23 44.1	11.8 N	KH47
C/2014 E2	2014 08 24.30309	00 58 05.80	+65 23 44.6	11.8 N	KH47
C/2014 E2	2014 08 24.30370	00 58 04.67	+65 23 45.6	11.8 N	KH47
C/2014 E2	2014 08 24.42105	00 54 24.28	+65 26 19.3	10.7 N	H45
C/2014 E2	2014 08 24.42200	00 54 22.50	+65 26 20.5	10.8 N	H45
C/2014 E2	2014 08 24.42439	00 54 17.98	+65 26 23.4	10.7 N	H45
C/2014 E2	2014 08 24.42689	00 54 13.27	+65 26 26.5	10.9 N	H45
C/2014 E2	2014 08 24.42972	00 54 07.90	+65 26 29.8	10.9 N	H45
C/2014 E2	2014 08 24.43026	00 54 06.85	+65 26 30.4	10.7 N	H45
C/2014 E2	2014 08 24.43097	00 54 05.52	+65 26 31.1	10.7 N	H45
C/2014 E2	2014 08 24.43226	00 54 03.12	+65 26 32.7	10.8 N	H45
C/2014 E2	2014 08 24.43373	00 54 00.34	+65 26 34.4	10.8 N	H45
C/2014 E2	2014 08 24.43489	00 53 58.16	+65 26 35.9	10.8 N	H45
C/2014 E2	2014 08 24.82885	00 41 35.03	+65 32 26.4	11.8 N	K14
C/2014 E2	2014 08 24.83766	00 41 18.18	+65 32 32.5	11.8 N	K14
C/2014 E2	2014 08 24.84676	00 41 00.75	+65 32 38.1	11.7 N	K14
C/2014 E2	2014 08 24.86143	00 40 32.61	+65 32 47.4	11.8 N	K14
C/2014 E2	2014 08 24.87536	00 40 05.89	+65 32 56.0	11.9 N	K14
C/2014 E2	2014 08 24.90565	00 39 08.09	+65 33 14.7	11.6 N	I57
C/2014 E2	2014 08 24.90752	00 39 04.40	+65 33 14.2	11.6 N	Z76
C/2014 E2	2014 08 24.90762	00 39 04.32	+65 33 15.5	11.6 N	I57
C/2014 E2	2014 08 24.90810	00 39 03.31	+65 33 14.5	11.7 N	Z76
C/2014 E2	2014 08 24.90843	00 39 02.67	+65 33 14.7	11.6 N	Z76
C/2014 E2	2014 08 24.91442	00 38 51.27	+65 33 19.3	11.6 N	I57
C/2014 E2	2014 08 24.93397	00 38 13.60	+65 33 28.4	11.9 N	J38
C/2014 E2	2014 08 24.93440	00 38 12.79	+65 33 28.6	11.8 N	J38
C/2014 E2	2014 08 24.93551	00 38 10.66	+65 33 29.3	11.9 N	J38
C/2014 E2	2014 08 24.93644	00 38 08.37	+65 33 31.7	12.2 N	C47
C/2014 E2	2014 08 24.93781	00 38 05.75	+65 33 32.3	12.2 N	C47
C/2014 E2	2014 08 24.93887	00 38 04.17	+65 33 31.6	11.7 N	Z74
C/2014 E2	2014 08 24.93924	00 38 03.52	+65 33 31.8	11.8 N	Z74
C/2014 E2	2014 08 24.93937	00 38 02.74	+65 33 33.1	12.2 N	C47
C/2014 E2	2014 08 24.93959	00 38 02.80	+65 33 32.0	11.8 N	Z74
C/2014 E2	2014 08 24.93995	00 38 02.12	+65 33 32.2	11.8 N	Z74
C/2014 E2	2014 08 24.94031	00 38 01.36	+65 33 32.3	11.7 N	Z74
C/2014 E2	2014 08 24.94068	00 38 00.75	+65 33 32.7	11.7 N	Z74
C/2014 E2	2014 08 24.94093	00 37 59.74	+65 33 33.9	12.0 N	C47
C/2014 E2	2014 08 24.94104	00 38 00.11	+65 33 32.3	12.1 N	Z74
C/2014 E2	2014 08 24.94140	00 37 59.30	+65 33 33.1	11.7 N	Z74
C/2014 E2	2014 08 24.94176	00 37 58.61	+65 33 33.3	12.1 N	Z74



C/2014 E2	2014 08 24.94213	00 37 57.92	+65 33 33.5	11.8 N	Z74
C/2014 E2	2014 08 24.94249	00 37 56.72	+65 33 34.7	11.9 N	C47
C/2014 E2	2014 08 24.94406	00 37 53.71	+65 33 35.4	12.2 N	C47
C/2014 E2	2014 08 24.98388	00 36 36.66	+65 33 54.2	12.5 N	L04
C/2014 E2	2014 08 24.98445	00 36 35.55	+65 33 54.5	12.9 N	L04
C/2014 E2	2014 08 24.98470	00 36 35.13	+65 33 54.6	13.0 N	L04
C/2014 E2	2014 08 24.98705	00 36 30.52	+65 33 55.4	12.9 N	L04
C/2014 E2	2014 08 25.01324	00 35 40.31	+65 34 05.5	12.3 N	K 160
C/2014 E2	2014 08 25.01439	00 35 38.07	+65 34 05.9	12.3 N	K 160
C/2014 E2	2014 08 25.01555	00 35 35.84	+65 34 06.3	12.3 N	K 160
C/2014 E2	2014 08 25.01746	00 35 32.17	+65 34 07.0	12.3 N	K 160
C/2014 E2	2014 08 25.01866	00 35 29.85	+65 34 07.4	12.3 N	K 160
C/2014 E2	2014 08 25.01985	00 35 27.56	+65 34 07.6	12.3 N	K 160
C/2014 E2	2014 08 25.03227	00 35 03.72	+65 34 12.1	12.2 N	A77
C/2014 E2	2014 08 25.03917	00 34 50.30	+65 34 15.0	11.8 N	A77
C/2014 E2	2014 08 25.04835	00 34 32.50	+65 34 17.9	11.8 N	A77
C/2014 E2	2014 08 25.06767	00 33 55.10	+65 34 22.7	11.4 N	A02
C/2014 E2	2014 08 25.06826	00 33 53.94	+65 34 22.9	11.3 N	A02
C/2014 E2	2014 08 25.06957	00 33 51.32	+65 34 23.3	11.4 N	A02
C/2014 E2	2014 08 25.09891	00 32 54.71	+65 34 29.5	11.9 N	A77
C/2014 E2	2014 08 25.10016	00 32 52.30	+65 34 29.7	11.9 N	A77
C/2014 E2	2014 08 25.10159	00 32 49.54	+65 34 30.2	11.9 N	A77
C/2014 E2	2014 08 25.10299	00 32 46.80	+65 34 29.9	11.9 N	A77
C/2014 E2	2014 08 25.10441	00 32 44.11	+65 34 30.9	11.8 N	A77
C/2014 E2	2014 08 25.10583	00 32 41.31	+65 34 30.9	11.9 N	A77
C/2014 E2	2014 08 25.10723	00 32 38.57	+65 34 31.2	11.9 N	A77
C/2014 E2	2014 08 25.10865	00 32 35.84	+65 34 31.2	11.8 N	A77
C/2014 E2	2014 08 25.12148	00 32 13.17	+65 34 23.2	13.8 N	QH06
C/2014 E2	2014 08 25.12248	00 32 09.15	+65 34 34.4	12.6 N	J01
C/2014 E2	2014 08 25.12273	00 32 10.28	+65 34 29.0	11.3 N	I15
C/2014 E2	2014 08 25.12543	00 32 03.31	+65 34 35.1	11.8 N	J01
C/2014 E2	2014 08 25.12684	00 32 02.30	+65 34 30.2	11.3 N	I15
C/2014 E2	2014 08 25.13009	00 31 56.64	+65 34 25.2	13.6 N	QH06
C/2014 E2	2014 08 25.13043	00 31 53.46	+65 34 35.3	12.5 N	J01
C/2014 E2	2014 08 25.13092	00 31 54.43	+65 34 30.9	11.3 N	I15
C/2014 E2	2014 08 25.13292	00 31 51.13	+65 34 26.2	13.7 N	QH06
C/2014 E2	2014 08 25.13570	00 31 45.67	+65 34 26.6	13.6 N	QH06
C/2014 E2	2014 08 25.13847	00 31 40.35	+65 34 27.4	13.6 N	QH06
C/2014 E2	2014 08 25.14112	00 31 35.28	+65 34 28.1	13.6 N	QH06
C/2014 E2	2014 08 25.14372	00 31 30.30	+65 34 28.6	13.6 N	QH06
C/2014 E2	2014 08 25.16883	00 30 38.87	+65 34 40.6	12.2 N	I72
C/2014 E2	2014 08 25.17039	00 30 35.78	+65 34 40.6	12.2 N	I72
C/2014 E2	2014 08 25.17194	00 30 32.90	+65 34 40.9	12.2 N	I72
C/2014 E2	2014 08 25.31122	00 26 04.82	+65 34 39.5	11.7 N	L H06
C/2014 E2	2014 08 25.31221	00 26 02.91	+65 34 39.8	11.7 N	L H06
C/2014 E2	2014 08 25.31310	00 26 01.15	+65 34 39.6	11.7 N	L H06
C/2014 E2	2014 08 25.32095	00 25 45.79	+65 34 38.3	11.3 N	L H06
C/2014 E2	2014 08 25.32192	00 25 43.92	+65 34 38.7	11.4 N	L H06
C/2014 E2	2014 08 25.32284	00 25 42.13	+65 34 38.3	11.3 N	L H06
C/2014 E2	2014 08 25.84306	00 08 49.75	+65 29 38.5	11.9 T	152
C/2014 E2	2014 08 25.85091	00 08 34.01	+65 29 30.1	11.9 T	152
C/2014 E2	2014 08 25.85512	00 08 25.91	+65 29 26.2	11.9 T	152
C/2014 E2	2014 08 25.85794	00 08 20.31	+65 29 23.5	11.9 T	152

C/2014 E2	2014 08 25.86310	00 08 10.23	+65 29 18.2	11.9 T	152
C/2014 E2	2014 08 25.86833	00 08 00.70	+65 29 11.7	12.1 N	K14
C/2014 E2	2014 08 25.87032	00 07 56.19	+65 29 12.0	11.8 T	152
C/2014 E2	2014 08 25.87145	00 07 54.63	+65 29 07.6	11.8 N	199
C/2014 E2	2014 08 25.87361	00 07 50.39	+65 29 05.6	11.8 N	199
C/2014 E2	2014 08 25.87433	00 07 48.99	+65 29 04.7	11.8 N	199
C/2014 E2	2014 08 25.87481	00 07 47.99	+65 29 05.6	12.0 N	K14
C/2014 E2	2014 08 25.87663	00 07 43.86	+65 29 05.2	11.9 T	152
C/2014 E2	2014 08 25.88562	00 07 26.71	+65 28 55.1	12.1 N	K14
C/2014 E2	2014 08 25.89252	00 07 13.13	+65 28 48.4	12.3 N	K 160
C/2014 E2	2014 08 25.89443	00 07 09.67	+65 28 46.4	12.1 N	K14
C/2014 E2	2014 08 25.89966	00 06 59.14	+65 28 41.5	12.2 N	K 160
C/2014 E2	2014 08 25.90525	00 06 48.23	+65 28 33.8	12.2 N	K14
C/2014 E2	2014 08 25.90621	00 06 46.32	+65 28 34.3	12.2 N	K 160
C/2014 E2	2014 08 25.91606	00 06 27.14	+65 28 23.3	12.1 N	K14
C/2014 E2	2014 08 25.91704	00 06 25.88	+65 28 20.8	12.3 N	K Z75
C/2014 E2	2014 08 25.93886	00 05 42.65	+65 27 58.1	11.6 N	K Z75
C/2014 E2	2014 08 25.96200	00 04 57.38	+65 27 33.3	11.6 N	A02
C/2014 E2	2014 08 25.96238	00 04 56.62	+65 27 32.6	11.7 N	A02
C/2014 E2	2014 08 25.96257	00 04 56.27	+65 27 32.4	11.6 N	A02
C/2014 E2	2014 08 26.04069	00 02 22.10	+65 25 55.6	7.3 N	C36
C/2014 E2	2014 08 26.04176	00 02 19.99	+65 25 52.4	7.3 N	C36
C/2014 E2	2014 08 26.04343	00 02 16.70	+65 25 50.9	7.3 N	C36
C/2014 E2	2014 08 26.04418	00 02 15.22	+65 25 49.5	7.3 N	C36
C/2014 E2	2014 08 26.04521	00 02 13.20	+65 25 48.1	7.3 N	C36
C/2014 E2	2014 08 26.04622	00 02 11.17	+65 25 45.5	7.2 N	C36
C/2014 E2	2014 08 26.04709	00 02 09.41	+65 25 44.8	7.2 N	C36
C/2014 E2	2014 08 26.04781	00 02 08.02	+65 25 43.8	7.1 N	C36
C/2014 E2	2014 08 26.16878	23 58 12.19	+65 22 55.8	12.1 N	I72
C/2014 E2	2014 08 26.17034	23 58 09.03	+65 22 53.0	12.1 N	I72
C/2014 E2	2014 08 26.17189	23 58 06.05	+65 22 50.4	12.1 N	I72
C/2014 E2	2014 08 26.80207	23 37 50.11	+65 01 18.7	12.2 N	213
C/2014 E2	2014 08 26.80888	23 37 37.13	+65 01 01.3	12.3 N	213
C/2014 E2	2014 08 26.81450	23 37 26.28	+65 00 47.1	12.2 N	213
C/2014 E2	2014 08 26.84278	23 36 32.26	+64 59 34.9	11.9 N	199
C/2014 E2	2014 08 26.84661	23 36 24.92	+64 59 25.2	11.9 N	199
C/2014 E2	2014 08 26.84758	23 36 23.05	+64 59 22.7	11.9 N	199
C/2014 E2	2014 08 26.84823	23 36 21.79	+64 59 21.6	11.9 N	A02
C/2014 E2	2014 08 26.84840	23 36 21.44	+64 59 21.3	11.9 N	A02
C/2014 E2	2014 08 26.84939	23 36 19.44	+64 59 18.2	11.9 N	A02
C/2014 E2	2014 08 26.87869	23 35 23.47	+64 58 03.8	12.2 N	K14
C/2014 E2	2014 08 26.87956	23 35 21.03	+64 57 59.6	13.8 N	C79
C/2014 E2	2014 08 26.88034	23 35 19.69	+64 57 57.7	13.8 N	C79
C/2014 E2	2014 08 26.88111	23 35 18.03	+64 57 55.6	13.7 N	C79
C/2014 E2	2014 08 26.88692	23 35 07.64	+64 57 41.0	12.1 N	K14
C/2014 E2	2014 08 26.89757	23 34 47.19	+64 57 13.3	12.1 N	K14
C/2014 E2	2014 08 26.90823	23 34 26.83	+64 56 44.7	12.2 N	K14
C/2014 E2	2014 08 26.91888	23 34 06.41	+64 56 16.2	12.3 N	K14
C/2014 E2	2014 08 26.95582	23 32 55.71	+64 54 35.5	13.2 N	B49
C/2014 E2	2014 08 26.96138	23 32 45.05	+64 54 20.0	13.2 N	B49
C/2014 E2	2014 08 26.96417	23 32 39.27	+64 54 10.1	12.4 N	C23
C/2014 E2	2014 08 26.96600	23 32 36.22	+64 54 07.1	13.2 N	B49
C/2014 E2	2014 08 26.97280	23 32 22.91	+64 53 46.0	12.1 N	C23



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C/2014 E2	2014 08 26.98135	23 32 05.61	+64 53 23.1	13.8 N	L22
C/2014 E2	2014 08 26.98304	23 32 02.38	+64 53 18.1	14.1 N	L22
C/2014 E2	2014 08 26.98374	23 32 01.94	+64 53 15.3	12.1 N	C23
C/2014 E2	2014 08 26.98473	23 31 59.26	+64 53 13.7	13.9 N	L22
C/2014 E2	2014 08 26.98557	23 31 57.72	+64 53 11.9	13.6 N	L22
C/2014 E2	2014 08 26.98726	23 31 54.25	+64 53 06.2	14.1 N	L22
C/2014 E2	2014 08 26.98895	23 31 51.28	+64 53 02.0	13.9 N	L22
C/2014 E2	2014 08 26.99063	23 31 47.82	+64 52 56.8	13.9 N	L22
C/2014 E2	2014 08 26.99178	23 31 46.30	+64 52 51.5	11.9 T	152
C/2014 E2	2014 08 26.99231	23 31 44.64	+64 52 51.8	13.6 N	L22
C/2014 E2	2014 08 26.99399	23 31 41.93	+64 52 48.3	13.9 N	L22
C/2014 E2	2014 08 26.99568	23 31 38.28	+64 52 42.3	13.6 N	L22
C/2014 E2	2014 08 26.99575	23 31 38.74	+64 52 40.4	11.9 T	152
C/2014 E2	2014 08 26.99737	23 31 34.94	+64 52 36.5	14.0 N	L22
C/2014 E2	2014 08 26.99905	23 31 32.03	+64 52 33.0	13.7 N	L22
C/2014 E2	2014 08 26.99958	23 31 31.46	+64 52 29.2	11.9 T	152
C/2014 E2	2014 08 27.00074	23 31 28.52	+64 52 27.3	14.2 N	L22
C/2014 E2	2014 08 27.00199	23 31 26.85	+64 52 22.5	12.0 T	152
C/2014 E2	2014 08 27.00243	23 31 25.29	+64 52 22.1	13.5 N	L22
C/2014 E2	2014 08 27.00412	23 31 22.10	+64 52 17.5	14.0 N	L22
C/2014 E2	2014 08 27.00571	23 31 19.79	+64 52 11.8	12.0 T	152
C/2014 E2	2014 08 27.00580	23 31 18.79	+64 52 12.8	13.9 N	L22
C/2014 E2	2014 08 27.00749	23 31 15.90	+64 52 08.5	13.9 N	L22
C/2014 E2	2014 08 27.00914	23 31 13.22	+64 52 01.9	11.9 T	152
C/2014 E2	2014 08 27.00918	23 31 12.43	+64 52 02.8	13.6 N	L22
C/2014 E2	2014 08 27.01086	23 31 08.88	+64 51 58.1	14.2 N	L22
C/2014 E2	2014 08 27.01255	23 31 05.79	+64 51 53.2	13.8 N	L22
C/2014 E2	2014 08 27.01525	23 31 01.59	+64 51 44.2	11.9 T	152
C/2014 E2	2014 08 27.03752	23 30 19.69	+64 50 43.4	12.2 N	I72
C/2014 E2	2014 08 27.03907	23 30 16.80	+64 50 39.1	12.2 N	I72
C/2014 E2	2014 08 27.04062	23 30 13.65	+64 50 34.1	12.2 N	I72
C/2014 E2	2014 08 27.09022	23 07 04.42	+64 06 31.6	13.1 N	C47
C/2014 E2	2014 08 27.79431	23 06 56.92	+64 06 14.6	13.2 N	C47
C/2014 E2	2014 08 27.79861	23 06 49.17	+64 05 57.3	12.6 N	C47
C/2014 E2	2014 08 27.80290	23 06 41.41	+64 05 39.7	13.1 N	C47
C/2014 E2	2014 08 27.80720	23 06 33.64	+64 05 22.3	13.2 N	C47
C/2014 E2	2014 08 27.81149	23 06 25.79	+64 05 04.8	12.6 N	C47
C/2014 E2	2014 08 27.82391	23 06 04.82	+64 04 16.7	12.3 N	B51
C/2014 E2	2014 08 27.82503	23 06 02.77	+64 04 12.2	12.3 N	B51
C/2014 E2	2014 08 27.82639	23 06 00.34	+64 04 06.6	12.3 N	B51
C/2014 E2	2014 08 27.82750	23 05 58.34	+64 04 02.1	12.3 N	B51
C/2014 E2	2014 08 27.82860	23 05 56.32	+64 03 57.4	12.4 N	B51
C/2014 E2	2014 08 27.82969	23 05 54.37	+64 03 53.2	12.3 N	B51
C/2014 E2	2014 08 27.83079	23 05 52.39	+64 03 48.6	12.3 N	B51
C/2014 E2	2014 08 27.83189	23 05 50.39	+64 03 44.2	12.3 N	B51
C/2014 E2	2014 08 27.86630	23 04 47.03	+64 01 19.2	11.9 N	A77
C/2014 E2	2014 08 27.86906	23 04 42.08	+64 01 08.3	11.9 N	A77
C/2014 E2	2014 08 27.87207	23 04 36.59	+64 00 55.0	12.1 N	A77
C/2014 E2	2014 08 27.87509	23 04 31.17	+64 00 42.5	12.1 N	A77
C/2014 E2	2014 08 27.87811	23 04 25.80	+64 00 31.1	8.2 T	A77
C/2014 E2	2014 08 27.88171	23 04 19.45	+64 00 15.0	11.6 N	I99
C/2014 E2	2014 08 27.88556	23 04 12.57	+63 59 59.1	11.9 N	I88
C/2014 E2	2014 08 27.88588	23 04 11.79	+63 59 58.9	11.8 N	K14

C/2014 E2	2014 08 27.88625	23 04 11.26	+63 59 56.1	11.6 N	I99
C/2014 E2	2014 08 27.88926	23 04 05.81	+63 59 43.7	11.6 N	I99
C/2014 E2	2014 08 27.89609	23 03 53.31	+63 59 16.4	11.8 N	K14
C/2014 E2	2014 08 27.90674	23 03 34.12	+63 58 31.0	11.8 N	K14
C/2014 E2	2014 08 27.90859	23 03 30.22	+63 58 19.9	14.5 N	A21
C/2014 E2	2014 08 27.90878	23 03 30.72	+63 58 22.3	11.9 N	A77
C/2014 E2	2014 08 27.91029	23 03 27.98	+63 58 16.4	11.9 N	A77
C/2014 E2	2014 08 27.91171	23 03 25.44	+63 58 10.4	11.9 N	A77
C/2014 E2	2014 08 27.91208	23 03 23.96	+63 58 05.6	14.4 N	A21
C/2014 E2	2014 08 27.91315	23 03 22.32	+63 58 02.0	11.8 N	C28
C/2014 E2	2014 08 27.91338	23 03 22.42	+63 58 03.1	11.9 N	A77
C/2014 E2	2014 08 27.91442	23 03 20.53	+63 57 57.7	11.7 N	I88
C/2014 E2	2014 08 27.91544	23 03 18.75	+63 57 54.4	11.9 N	A77
C/2014 E2	2014 08 27.91660	23 03 16.62	+63 57 49.1	11.9 N	A77
C/2014 E2	2014 08 27.91722	23 03 14.52	+63 57 43.8	14.5 N	A21
C/2014 E2	2014 08 27.91740	23 03 15.01	+63 57 46.7	11.7 N	K14
C/2014 E2	2014 08 27.91772	23 03 14.63	+63 57 44.7	11.9 N	A77
C/2014 E2	2014 08 27.91775	23 03 14.29	+63 57 44.6	11.7 N	C35
C/2014 E2	2014 08 27.91913	23 03 12.10	+63 57 38.8	11.9 N	A77
C/2014 E2	2014 08 27.91928	23 03 11.58	+63 57 38.2	11.7 N	C35
C/2014 E2	2014 08 27.92024	23 03 10.08	+63 57 34.1	11.9 N	A77
C/2014 E2	2014 08 27.92072	23 03 08.61	+63 57 29.6	14.5 N	A21
C/2014 E2	2014 08 27.92081	23 03 08.75	+63 57 31.7	11.7 N	C35
C/2014 E2	2014 08 27.92172	23 03 07.20	+63 57 27.7	11.7 N	C35
C/2014 E2	2014 08 27.92414	23 03 02.32	+63 57 13.7	14.4 N	A21
C/2014 E2	2014 08 27.92736	23 02 56.62	+63 57 01.0	11.9 N	C28
C/2014 E2	2014 08 27.92759	23 02 56.33	+63 57 01.0	14.5 N	A21
C/2014 E2	2014 08 27.92804	23 02 55.73	+63 57 01.9	11.9 N	K14
C/2014 E2	2014 08 27.92884	23 02 54.56	+63 56 57.1	11.8 N	I88
C/2014 E2	2014 08 27.93106	23 02 49.71	+63 56 44.7	14.5 N	A21
C/2014 E2	2014 08 27.93624	23 02 40.54	+63 56 23.4	14.5 N	A21
C/2014 E2	2014 08 27.93799	23 02 37.54	+63 56 15.8	14.5 N	A21
C/2014 E2	2014 08 27.93971	23 02 34.36	+63 56 08.5	14.6 N	A21
C/2014 E2	2014 08 27.94105	23 02 32.42	+63 56 04.8	11.8 N	B54
C/2014 E2	2014 08 27.94119	23 02 32.17	+63 56 03.9	11.8 N	B54
C/2014 E2	2014 08 27.94148	23 02 31.67	+63 56 03.1	11.8 N	B54
C/2014 E2	2014 08 27.94155	23 02 31.01	+63 56 00.9	11.9 N	C28
C/2014 E2	2014 08 27.95582	23 02 05.20	+63 54 57.9	11.9 N	C28
C/2014 E2	2014 08 27.95870	23 01 59.73	+63 54 47.2	11.8 N	K15
C/2014 E2	2014 08 27.96584	23 01 46.92	+63 54 16.2	11.8 N	K15
C/2014 E2	2014 08 27.96998	23 01 39.82	+63 53 58.7	11.0 N	C28
C/2014 E2	2014 08 27.97299	23 01 34.57	+63 53 45.4	11.8 N	K15
C/2014 E2	2014 08 27.98155	23 01 18.86	+63 53 07.8	11.8 N	K15
C/2014 E2	2014 08 27.98417	23 01 14.65	+63 52 56.9	11.9 N	C28
C/2014 E2	2014 08 27.99837	23 00 49.52	+63 51 54.4	11.9 N	C28
C/2014 E2	2014 08 28.03901	22 59 37.04	+63 48 57.7	12.3 N	I72
C/2014 E2	2014 08 28.04058	22 59 34.15	+63 48 51.2	12.3 N	I72
C/2014 E2	2014 08 28.04214	22 59 31.30	+63 48 43.8	12.3 N	I72
C/2014 E2	2014 08 28.05080	22 59 15.52	+63 48 02.2	12.5 N	C47
C/2014 E2	2014 08 28.05236	22 59 12.77	+63 47 55.2	12.9 N	C47
C/2014 E2	2014 08 28.05392	22 59 09.93	+63 47 47.9	12.8 N	C47
C/2014 E2	2014 08 28.05548	22 59 07.16	+63 47 41.0	13.1 N	C47
C/2014 E2	2014 08 28.05724	22 59 04.04	+63 47 33.4	12.3 N	C47



C/2014 E2	2014 08 28.05899	22 59 00.90	+63 47 25.1	12.7 N	C47	C/2014 E2	2014 08 29.08965	22 29 59.94	+62 18 33.3	12.7 N	L04
C/2014 E2	2014 08 28.09758	22 57 52.56	+63 44 30.0	12.6 N	C23	C/2014 E2	2014 08 29.79634	22 11 56.48	+61 05 18.3	13.0 N	KA81
C/2014 E2	2014 08 28.10441	22 57 40.30	+63 43 59.8	12.6 N	C23	C/2014 E2	2014 08 29.79936	22 11 52.02	+61 04 58.6	13.0 N	KA81
C/2014 E2	2014 08 28.10964	22 57 31.11	+63 43 35.4	12.6 N	C23	C/2014 E2	2014 08 29.80289	22 11 46.83	+61 04 35.3	13.0 N	KA81
C/2014 E2	2014 08 28.14356	22 56 31.14	+63 41 02.4	14.0 N	20 I89	C/2014 E2	2014 08 29.827243	22 11 10.51	+61 01 58.2	11.5 T	2 089
C/2014 E2	2014 08 28.14794	22 56 23.38	+63 40 42.0	14.2 N	20 I89	C/2014 E2	2014 08 29.831844	22 11 03.65	+61 01 26.4	11.8 T	2 089
C/2014 E2	2014 08 28.14922	22 56 21.13	+63 40 36.0	14.2 N	20 I89	C/2014 E2	2014 08 29.833474	22 11 01.19	+61 01 16.0	11.7 T	2 089
C/2014 E2	2014 08 28.80027	22 37 53.10	+62 45 47.2	13.0 N	C47	C/2014 E2	2014 08 29.835106	22 10 58.71	+61 01 05.2	11.7 T	2 089
C/2014 E2	2014 08 28.80397	22 37 46.94	+62 45 27.0	13.0 N	C47	C/2014 E2	2014 08 29.836738	22 10 56.37	+61 00 54.7	11.5 T	2 089
C/2014 E2	2014 08 28.80788	22 37 40.48	+62 45 05.8	13.0 N	C47	C/2014 E2	2014 08 29.83818	22 10 55.07	+61 00 42.8	12.2 N	K14
C/2014 E2	2014 08 28.81178	22 37 34.02	+62 44 45.0	12.5 N	C47	C/2014 E2	2014 08 29.85220	22 10 34.45	+60 59 10.5	12.2 N	K14
C/2014 E2	2014 08 28.81569	22 37 27.58	+62 44 23.8	12.3 N	C47	C/2014 E2	2014 08 29.85809	22 10 25.47	+60 58 31.4	12.4 T	106
C/2014 E2	2014 08 28.81959	22 37 21.20	+62 44 02.2	12.6 N	C47	C/2014 E2	2014 08 29.86025	22 10 22.28	+60 58 17.1	12.5 T	106
C/2014 E2	2014 08 28.85351	22 36 25.50	+62 40 57.2	12.1 N	A77	C/2014 E2	2014 08 29.86223	22 10 19.39	+60 58 03.9	12.4 T	106
C/2014 E2	2014 08 28.85400	22 36 24.00	+62 40 53.6	12.0 T	152	C/2014 E2	2014 08 29.86431	22 10 16.33	+60 57 50.2	12.5 T	106
C/2014 E2	2014 08 28.85571	22 36 21.74	+62 40 44.8	12.0 N	A77	C/2014 E2	2014 08 29.86613	22 10 13.53	+60 57 35.2	12.2 N	C23
C/2014 E2	2014 08 28.85787	22 36 17.44	+62 40 32.6	12.0 T	152	C/2014 E2	2014 08 29.86621	22 10 13.53	+60 57 37.5	12.5 T	106
C/2014 E2	2014 08 28.85836	22 36 17.43	+62 40 29.7	8.4 T	A77	C/2014 E2	2014 08 29.86623	22 10 13.83	+60 57 37.8	12.1 N	K14
C/2014 E2	2014 08 28.86031	22 36 14.35	+62 40 20.0	12.2 N	K14	C/2014 E2	2014 08 29.86812	22 10 10.76	+60 57 25.2	12.5 T	106
C/2014 E2	2014 08 28.86086	22 36 13.21	+62 40 16.8	12.5 N	233	C/2014 E2	2014 08 29.87036	22 10 07.47	+60 57 10.2	12.5 T	106
C/2014 E2	2014 08 28.86203	22 36 11.29	+62 40 10.0	12.5 N	233	C/2014 E2	2014 08 29.87188	22 10 05.17	+60 56 57.2	12.2 N	C23
C/2014 E2	2014 08 28.86307	22 36 09.57	+62 40 04.6	12.5 N	233	C/2014 E2	2014 08 29.87227	22 10 04.68	+60 56 57.4	12.5 T	106
C/2014 E2	2014 08 28.86405	22 36 07.96	+62 39 58.9	12.5 N	233	C/2014 E2	2014 08 29.87418	22 10 01.88	+60 56 44.9	12.5 T	106
C/2014 E2	2014 08 28.86653	22 36 03.26	+62 39 43.7	12.0 T	152	C/2014 E2	2014 08 29.875525	22 09 59.23	+60 56 35.8	11.4 T	2 089
C/2014 E2	2014 08 28.86731	22 36 02.76	+62 39 41.1	12.2 N	K14	C/2014 E2	2014 08 29.87608	22 09 59.09	+60 56 31.8	12.5 T	106
C/2014 E2	2014 08 28.87023	22 35 57.15	+62 39 23.1	12.0 T	152	C/2014 E2	2014 08 29.87706	22 09 57.57	+60 56 22.7	12.3 N	C23
C/2014 E2	2014 08 28.87116	22 35 56.18	+62 39 20.1	12.0 N	K 160	C/2014 E2	2014 08 29.877157	22 09 56.99	+60 56 24.0	11.4 T	2 089
C/2014 E2	2014 08 28.87353	22 35 52.27	+62 39 06.9	11.7 N	K 160	C/2014 E2	2014 08 29.87814	22 09 56.07	+60 56 18.5	12.4 T	106
C/2014 E2	2014 08 28.87418	22 35 50.44	+62 39 00.4	11.9 T	152	C/2014 E2	2014 08 29.878788	22 09 54.52	+60 56 15.6	11.3 T	2 089
C/2014 E2	2014 08 28.87432	22 35 51.25	+62 39 02.5	12.2 N	K14	C/2014 E2	2014 08 29.88016	22 09 53.15	+60 56 05.0	12.5 T	106
C/2014 E2	2014 08 28.87592	22 35 48.35	+62 38 53.7	12.4 N	K 160	C/2014 E2	2014 08 29.88026	22 09 53.23	+60 56 04.7	12.1 N	K14
C/2014 E2	2014 08 28.88135	22 35 39.69	+62 38 23.8	12.2 N	K14	C/2014 E2	2014 08 29.880420	22 09 52.20	+60 56 05.0	11.7 T	2 089
C/2014 E2	2014 08 28.88673	22 35 30.56	+62 37 53.9	12.4 N	K 160	C/2014 E2	2014 08 29.882052	22 09 49.85	+60 55 53.4	11.4 T	2 089
C/2014 E2	2014 08 28.88836	22 35 28.13	+62 37 45.1	12.1 N	K14	C/2014 E2	2014 08 29.89615	22 09 29.99	+60 54 19.2	12.0 N	K14
C/2014 E2	2014 08 28.88900	22 35 26.81	+62 37 41.3	12.4 N	K 160	C/2014 E2	2014 08 29.92154	22 08 51.82	+60 51 26.3	13.8 N	L22
C/2014 E2	2014 08 28.89128	22 35 23.06	+62 37 28.8	12.4 N	K 160	C/2014 E2	2014 08 29.92192	22 08 51.34	+60 51 24.5	13.9 N	L22
C/2014 E2	2014 08 28.89536	22 35 16.63	+62 37 06.2	12.3 N	K14	C/2014 E2	2014 08 29.92229	22 08 50.76	+60 51 21.8	13.8 N	L22
C/2014 E2	2014 08 28.95093	22 33 45.04	+62 31 55.0	11.3 N	470	C/2014 E2	2014 08 29.92267	22 08 50.04	+60 51 18.4	13.7 N	L22
C/2014 E2	2014 08 28.95145	22 33 44.19	+62 31 52.0	11.3 N	470	C/2014 E2	2014 08 29.92306	22 08 49.57	+60 51 16.2	13.7 N	L22
C/2014 E2	2014 08 28.95197	22 33 43.30	+62 31 48.8	11.3 N	470	C/2014 E2	2014 08 29.92344	22 08 49.10	+60 51 14.1	13.7 N	L22
C/2014 E2	2014 08 28.95255	22 33 42.43	+62 31 45.8	11.3 N	470	C/2014 E2	2014 08 29.92382	22 08 48.55	+60 51 11.4	13.7 N	L22
C/2014 E2	2014 08 28.95307	22 33 41.58	+62 31 43.0	11.3 N	470	C/2014 E2	2014 08 29.92419	22 08 48.00	+60 51 09.2	13.7 N	L22
C/2014 E2	2014 08 28.95359	22 33 40.70	+62 31 39.8	11.3 N	470	C/2014 E2	2014 08 29.92457	22 08 47.44	+60 51 06.3	13.6 N	L22
C/2014 E2	2014 08 28.95411	22 33 39.83	+62 31 36.9	11.3 N	470	C/2014 E2	2014 08 29.92495	22 08 46.94	+60 51 03.9	13.8 N	L22
C/2014 E2	2014 08 28.95463	22 33 38.96	+62 31 33.8	11.3 N	470	C/2014 E2	2014 08 29.92534	22 08 46.29	+60 51 00.9	13.6 N	L22
C/2014 E2	2014 08 28.95515	22 33 38.08	+62 31 30.9	11.3 N	470	C/2014 E2	2014 08 29.92572	22 08 45.77	+60 50 58.9	13.7 N	L22
C/2014 E2	2014 08 28.95573	22 33 37.22	+62 31 28.0	11.3 N	470	C/2014 E2	2014 08 29.92610	22 08 45.25	+60 50 56.0	13.7 N	L22
C/2014 E2	2014 08 28.95992	22 33 30.80	+62 31 01.6	12.2 N	J93	C/2014 E2	2014 08 29.92648	22 08 44.60	+60 50 52.8	13.7 N	L22
C/2014 E2	2014 08 28.96088	22 33 29.23	+62 30 56.3	12.2 N	J93	C/2014 E2	2014 08 29.92686	22 08 44.11	+60 50 51.9	11.9 N	L22
C/2014 E2	2014 08 28.96670	22 33 19.70	+62 30 23.0	12.3 N	J93	C/2014 E2	2014 08 29.92725	22 08 43.72	+60 50 46.1	11.7 N	L22
C/2014 E2	2014 08 29.08673	22 30 04.64	+62 18 50.5	12.7 N	L04	C/2014 E2	2014 08 29.92763	22 08 43.09	+60 50 44.7	12.0 N	L22
C/2014 E2	2014 08 29.08705	22 30 04.10	+62 18 48.6	12.6 N	L04	C/2014 E2	2014 08 29.92801	22 08 42.38	+60 50 42.7	13.7 N	L22
C/2014 E2	2014 08 29.08944	22 30 00.24	+62 18 35.2	12.7 N	L04	C/2014 E2	2014 08 29.92839	22 08 41.90	+60 50 40.5	13.8 N	L22



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C/2014 E2	2014 08 29.92877	22 08 41.34	+60 50 37.8	13.7 N	L22
C/2014 E2	2014 08 29.92914	22 08 40.72	+60 50 35.6	13.6 N	L22
C/2014 E2	2014 08 29.92953	22 08 40.21	+60 50 33.4	13.6 N	L22
C/2014 E2	2014 08 29.92991	22 08 39.65	+60 50 30.1	13.6 N	L22
C/2014 E2	2014 08 29.93029	22 08 39.08	+60 50 27.8	13.5 N	L22
C/2014 E2	2014 08 29.93067	22 08 38.52	+60 50 24.9	13.5 N	L22
C/2014 E2	2014 08 29.93105	22 08 37.94	+60 50 22.2	13.5 N	L22
C/2014 E2	2014 08 29.93144	22 08 37.48	+60 50 20.4	13.8 N	L22
C/2014 E2	2014 08 29.93182	22 08 36.89	+60 50 17.4	13.6 N	L22
C/2014 E2	2014 08 29.93220	22 08 36.36	+60 50 15.1	13.6 N	L22
C/2014 E2	2014 08 29.93257	22 08 35.72	+60 50 12.2	13.7 N	L22
C/2014 E2	2014 08 29.93295	22 08 35.32	+60 50 09.9	13.8 N	L22
C/2014 E2	2014 08 29.93333	22 08 34.63	+60 50 07.2	13.7 N	L22
C/2014 E2	2014 08 29.93361	22 08 34.68	+60 50 04.9	9.3 N	C36
C/2014 E2	2014 08 29.93372	22 08 34.19	+60 50 05.3	13.7 N	L22
C/2014 E2	2014 08 29.93410	22 08 33.59	+60 50 02.1	13.7 N	L22
C/2014 E2	2014 08 29.93414	22 08 33.90	+60 50 01.2	9.3 N	C36
C/2014 E2	2014 08 29.93448	22 08 32.93	+60 49 59.4	13.6 N	L22
C/2014 E2	2014 08 29.93468	22 08 33.05	+60 49 57.8	9.3 N	C36
C/2014 E2	2014 08 29.93486	22 08 32.43	+60 49 57.2	13.5 N	L22
C/2014 E2	2014 08 29.93521	22 08 32.27	+60 49 54.0	9.3 N	C36
C/2014 E2	2014 08 29.93524	22 08 31.89	+60 49 54.4	13.5 N	L22
C/2014 E2	2014 08 29.93562	22 08 31.33	+60 49 51.6	13.5 N	L22
C/2014 E2	2014 08 29.93573	22 08 31.54	+60 49 50.5	9.3 N	C36
C/2014 E2	2014 08 29.93600	22 08 30.77	+60 49 49.4	13.5 N	L22
C/2014 E2	2014 08 29.93626	22 08 30.74	+60 49 47.0	9.3 N	C36
C/2014 E2	2014 08 29.93638	22 08 30.19	+60 49 46.3	13.5 N	L22
C/2014 E2	2014 08 29.93676	22 08 29.68	+60 49 44.5	13.5 N	L22
C/2014 E2	2014 08 29.93679	22 08 29.98	+60 49 43.2	9.3 N	C36
C/2014 E2	2014 08 29.93714	22 08 29.04	+60 49 41.3	13.5 N	L22
C/2014 E2	2014 08 29.93733	22 08 29.23	+60 49 39.9	9.3 N	C36
C/2014 E2	2014 08 29.93752	22 08 28.58	+60 49 39.0	13.5 N	L22
C/2014 E2	2014 08 29.93791	22 08 28.00	+60 49 36.2	13.6 N	L22
C/2014 E2	2014 08 29.93829	22 08 27.34	+60 49 33.2	13.7 N	L22
C/2014 E2	2014 08 29.93867	22 08 26.85	+60 49 31.1	13.6 N	L22
C/2014 E2	2014 08 29.93905	22 08 26.30	+60 49 28.7	13.7 N	L22
C/2014 E2	2014 08 29.93943	22 08 25.83	+60 49 26.4	13.6 N	L22
C/2014 E2	2014 08 29.93981	22 08 25.23	+60 49 23.6	12.7 N	L22
C/2014 E2	2014 08 29.94019	22 08 24.68	+60 49 20.8	13.5 N	L22
C/2014 E2	2014 08 29.94057	22 08 24.10	+60 49 18.3	13.4 N	L22
C/2014 E2	2014 08 29.94095	22 08 23.56	+60 49 15.8	13.4 N	L22
C/2014 E2	2014 08 29.94133	22 08 22.95	+60 49 13.0	13.6 N	L22
C/2014 E2	2014 08 29.94171	22 08 22.48	+60 49 10.7	13.4 N	L22
C/2014 E2	2014 08 29.94209	22 08 21.91	+60 49 08.0	13.4 N	L22
C/2014 E2	2014 08 29.94248	22 08 21.36	+60 49 05.7	12.8 N	L22
C/2014 E2	2014 08 29.94285	22 08 20.86	+60 49 03.2	13.5 N	L22
C/2014 E2	2014 08 29.94323	22 08 20.33	+60 49 00.9	13.5 N	L22
C/2014 E2	2014 08 29.94361	22 08 19.76	+60 48 58.2	13.6 N	L22
C/2014 E2	2014 08 29.94399	22 08 19.20	+60 48 55.5	13.8 N	L22
C/2014 E2	2014 08 29.94441	22 08 18.53	+60 48 52.6	12.9 N	L22
C/2014 E2	2014 08 29.94479	22 08 18.03	+60 48 49.9	13.5 N	L22
C/2014 E2	2014 08 29.94517	22 08 17.41	+60 48 47.4	12.8 N	L22
C/2014 E2	2014 08 29.94556	22 08 16.80	+60 48 44.6	13.5 N	L22

C/2014 E2	2014 08 29.94594	22 08 16.38	+60 48 42.4	13.5 N	L22
C/2014 E2	2014 08 29.94632	22 08 15.76	+60 48 39.3	13.4 N	L22
C/2014 E2	2014 08 29.94670	22 08 15.22	+60 48 37.0	13.5 N	L22
C/2014 E2	2014 08 29.94708	22 08 14.65	+60 48 34.4	13.4 N	L22
C/2014 E2	2014 08 29.94747	22 08 14.09	+60 48 31.9	13.4 N	L22
C/2014 E2	2014 08 29.94785	22 08 13.55	+60 48 29.2	13.4 N	L22
C/2014 E2	2014 08 29.96705	22 07 46.70	+60 46 21.6	12.2 N	B92
C/2014 E2	2014 08 29.96807	22 07 45.20	+60 46 14.3	12.1 N	B92
C/2014 E2	2014 08 29.96858	22 07 44.51	+60 46 10.9	12.1 N	B92
C/2014 E2	2014 08 29.96907	22 07 43.75	+60 46 07.4	12.2 N	B92
C/2014 E2	2014 08 29.96958	22 07 43.11	+60 46 04.3	12.1 N	B92
C/2014 E2	2014 08 29.97008	22 07 42.27	+60 46 00.7	12.1 N	B92
C/2014 E2	2014 08 29.97059	22 07 41.58	+60 45 57.7	12.2 N	B92
C/2014 E2	2014 08 29.97109	22 07 40.81	+60 45 53.6	12.1 N	B92
C/2014 E2	2014 08 29.97262	22 07 38.64	+60 45 43.5	12.2 N	B92
C/2014 E2	2014 08 29.97313	22 07 37.90	+60 45 40.1	12.2 N	B92
C/2014 E2	2014 08 29.97516	22 07 34.92	+60 45 26.0	12.1 N	B92
C/2014 E2	2014 08 29.97618	22 07 33.52	+60 45 19.1	12.1 N	B92
C/2014 E2	2014 08 29.98937	22 07 13.94	+60 43 49.8	11.7 N	K15
C/2014 E2	2014 08 29.99895	22 07 00.11	+60 42 45.3	11.8 N	K15
C/2014 E2	2014 08 30.00399	22 06 52.76	+60 42 10.5	11.8 N	K15
C/2014 E2	2014 08 30.00904	22 06 45.51	+60 41 35.3	11.8 N	K15
C/2014 E2	2014 08 30.03383	22 06 10.64	+60 38 49.5	12.1 N	A77
C/2014 E2	2014 08 30.03501	22 06 08.96	+60 38 41.5	12.1 N	A77
C/2014 E2	2014 08 30.03616	22 06 07.29	+60 38 34.0	12.1 N	A77
C/2014 E2	2014 08 30.03728	22 06 05.67	+60 38 26.4	12.1 N	A77
C/2014 E2	2014 08 30.03825	22 06 04.07	+60 38 19.2	12.3 N	I72
C/2014 E2	2014 08 30.03838	22 06 04.09	+60 38 18.4	12.1 N	A77
C/2014 E2	2014 08 30.03962	22 06 02.30	+60 38 10.1	12.1 N	A77
C/2014 E2	2014 08 30.03980	22 06 01.71	+60 38 07.9	12.3 N	I72
C/2014 E2	2014 08 30.04067	22 06 00.78	+60 38 03.1	12.1 N	A77
C/2014 E2	2014 08 30.04135	22 05 59.65	+60 37 57.8	12.4 N	I72
C/2014 E2	2014 08 30.83977	21 48 00.02	+59 02 26.8	9.1 T	A77
C/2014 E2	2014 08 30.86220	21 47 31.06	+58 59 40.7	12.2 N	233
C/2014 E2	2014 08 30.86304	21 47 30.02	+58 59 33.8	12.6 N	A77
C/2014 E2	2014 08 30.86331	21 47 29.64	+58 59 32.4	12.2 N	233
C/2014 E2	2014 08 30.86456	21 47 28.02	+58 59 22.8	12.2 N	233
C/2014 E2	2014 08 30.86936	21 47 21.85	+58 58 47.0	12.1 N	233
C/2014 E2	2014 08 30.87144	21 47 19.24	+58 58 31.5	12.0 N	A77
C/2014 E2	2014 08 30.87769	21 47 11.16	+58 57 44.7	12.1 N	233
C/2014 E2	2014 08 30.93682	21 45 55.69	+58 50 19.8	11.9 N	C90
C/2014 E2	2014 08 30.94215	21 45 48.89	+58 49 39.6	11.9 N	C90
C/2014 E2	2014 08 30.94840	21 45 40.97	+58 48 52.5	11.9 N	C90
C/2014 E2	2014 08 31.43633	21 35 46.56	+57 46 00.5	7.7 T	D95
C/2014 E2	2014 08 31.44144	21 35 40.51	+57 45 20.5		D95
C/2014 E2	2014 08 31.58449	21 32 52.83	+57 26 31.1	14.0 N	P25
C/2014 E2	2014 08 31.58564	21 32 51.49	+57 26 22.1	13.8 N	P25
C/2014 E2	2014 08 31.58677	21 32 50.07	+57 26 12.1	14.0 N	P25
C/2014 E2	2014 08 31.58789	21 32 48.73	+57 26 03.3	14.2 N	P25
C/2014 E2	2014 08 31.58904	21 32 47.48	+57 25 54.3	13.7 N	P25
C/2014 E2	2014 08 31.59024	21 32 46.04	+57 25 44.8	13.9 N	P25
C/2014 E2	2014 08 31.59138	21 32 44.68	+57 25 35.3	14.1 N	P25
C/2014 E2	2014 08 31.59251	21 32 43.45	+57 25 27.0	13.8 N	P25



C/2014 E2	2014 08 31.59365	21 32 42.14	+57 25 18.2	14.0 N	P25	C/2014 E2	2014 09 01.84109	21 10 49.00	+54 33 54.0	12.3 N	B92
C/2014 E2	2014 08 31.84919	21 27 53.88	+56 51 02.3	11.4 N	C10	C/2014 E2	2014 09 01.84160	21 10 48.48	+54 33 50.3	12.4 N	B92
C/2014 E2	2014 08 31.85602	21 27 46.27	+56 50 07.3	11.5 N	C10	C/2014 E2	2014 09 01.85208	21 10 38.69	+54 32 24.3	12.0 N	I99
C/2014 E2	2014 08 31.86311	21 27 38.36	+56 49 10.9	11.5 N	C10	C/2014 E2	2014 09 01.85293	21 10 37.81	+54 32 17.4	12.4 N	C90
C/2014 E2	2014 08 31.86475	21 27 36.30	+56 48 55.2	12.2 N	C23	C/2014 E2	2014 09 01.85308	21 10 37.52	+54 32 15.5	12.5 T	A77
C/2014 E2	2014 08 31.87013	21 27 30.55	+56 48 13.4	11.5 N	C10	C/2014 E2	2014 09 01.85505	21 10 35.85	+54 31 59.5	12.0 N	I99
C/2014 E2	2014 08 31.87108	21 27 29.23	+56 48 04.3	11.7 N	C23	C/2014 E2	2014 09 01.85807	21 10 32.94	+54 31 34.0	12.0 N	I99
C/2014 E2	2014 08 31.87725	21 27 22.60	+56 47 15.9	11.4 N	C10	C/2014 E2	2014 09 01.85840	21 10 32.26	+54 31 29.8	11.2 T	B33
C/2014 E2	2014 08 31.87792	21 27 21.86	+56 47 12.8	12.1 N	C35	C/2014 E2	2014 09 01.85917	21 10 31.64	+54 31 24.2	12.2 T	A77
C/2014 E2	2014 08 31.87856	21 27 20.90	+56 47 03.4	11.7 N	C23	C/2014 E2	2014 09 01.85961	21 10 31.31	+54 31 20.8	12.4 N	C90
C/2014 E2	2014 08 31.88127	21 27 18.13	+56 46 45.4	12.1 N	C35	C/2014 E2	2014 09 01.86774	21 10 23.25	+54 30 10.7	11.3 T	B33
C/2014 E2	2014 08 31.88170	21 27 17.69	+56 46 41.5	12.1 N	C35	C/2014 E2	2014 09 01.87207	21 10 19.30	+54 29 36.0	12.1 N	K14
C/2014 E2	2014 08 31.88436	21 27 14.71	+56 46 18.3	11.4 N	C10	C/2014 E2	2014 09 01.87422	21 10 17.31	+54 29 17.5	12.4 N	C90
C/2014 E2	2014 08 31.88631	21 27 12.53	+56 46 04.1	12.1 N	C35	C/2014 E2	2014 09 01.87770	21 10 13.67	+54 28 46.6	11.2 T	B33
C/2014 E2	2014 08 31.89155	21 27 06.73	+56 45 20.3	11.4 N	C10	C/2014 E2	2014 09 01.87999	21 10 11.69	+54 28 29.2	11.9 N	K14
C/2014 E2	2014 08 31.92964	21 26 24.68	+56 40 13.3	12.0 N	I99	C/2014 E2	2014 09 01.88701	21 10 04.90	+54 27 29.7	12.1 N	K14
C/2014 E2	2014 08 31.93190	21 26 22.18	+56 39 55.1	12.0 N	I99	C/2014 E2	2014 09 01.91910	21 09 34.61	+54 22 57.7	12.8 N	K Z75
C/2014 E2	2014 08 31.93525	21 26 18.47	+56 39 27.6	12.0 N	I99	C/2014 E2	2014 09 01.92704	21 09 26.78	+54 21 49.5	12.2 N	J38
C/2014 E2	2014 08 31.96932	21 25 40.97	+56 34 50.9	12.1 N	J53	C/2014 E2	2014 09 01.92726	21 09 26.56	+54 21 47.5	12.3 N	J38
C/2014 E2	2014 08 31.97878	21 25 30.58	+56 33 33.9	12.1 N	J53	C/2014 E2	2014 09 01.92813	21 09 25.69	+54 21 41.3	12.3 N	J38
C/2014 E2	2014 08 31.98747	21 25 21.06	+56 32 23.0	12.2 N	J53	C/2014 E2	2014 09 01.94234	21 09 12.23	+54 19 37.6	12.9 N	K Z75
C/2014 E2	2014 08 31.99302	21 25 14.98	+56 31 37.8	12.2 N	J53	C/2014 E2	2014 09 02.03252	21 07 46.75	+54 06 52.3	12.1 N	Z76
C/2014 E2	2014 09 01.03854	21 24 25.22	+56 25 24.0	12.4 N	I72	C/2014 E2	2014 09 02.03317	21 07 46.12	+54 06 46.8	12.1 N	Z76
C/2014 E2	2014 09 01.04011	21 24 23.50	+56 25 10.7	12.5 N	I72	C/2014 E2	2014 09 02.03405	21 07 45.32	+54 06 39.2	12.2 N	Z76
C/2014 E2	2014 09 01.04170	21 24 21.70	+56 24 57.5	12.5 N	I72	C/2014 E2	2014 09 02.08384	21 06 58.71	+53 59 32.3	11.6 N	A77
C/2014 E2	2014 09 01.29192	21 19 56.52	+55 50 38.7	11.7 N	H45	C/2014 E2	2014 09 02.08779	21 06 55.03	+53 58 58.7	11.6 N	A77
C/2014 E2	2014 09 01.29249	21 19 55.91	+55 50 33.7	11.8 N	H45	C/2014 E2	2014 09 02.09227	21 06 50.93	+53 58 20.1	12.0 N	A77
C/2014 E2	2014 09 01.29420	21 19 54.12	+55 50 19.6	11.6 N	H45	C/2014 E2	2014 09 02.12962	21 06 17.46	+53 53 06.4	11.5 N	I15
C/2014 E2	2014 09 01.29494	21 19 53.33	+55 50 13.5	11.7 N	H45	C/2014 E2	2014 09 02.13179	21 06 15.46	+53 52 48.1	11.7 N	I15
C/2014 E2	2014 09 01.29577	21 19 52.46	+55 50 06.9	11.8 N	H45	C/2014 E2	2014 09 02.13398	21 06 13.44	+53 52 29.0	11.6 N	I15
C/2014 E2	2014 09 01.29665	21 19 51.54	+55 49 59.3	11.8 N	H45	C/2014 E2	2014 09 02.83458	20 56 02.49	+52 12 05.9	12.5 N	K 160
C/2014 E2	2014 09 01.29848	21 19 49.67	+55 49 44.1	11.6 N	H45	C/2014 E2	2014 09 02.83688	20 56 00.57	+52 11 46.1	12.6 N	K 160
C/2014 E2	2014 09 01.29933	21 19 48.75	+55 49 37.0	11.7 N	H45	C/2014 E2	2014 09 02.83920	20 55 58.62	+52 11 26.2	12.6 N	K 160
C/2014 E2	2014 09 01.30040	21 19 47.63	+55 49 28.2	11.8 N	H45	C/2014 E2	2014 09 02.86351	20 55 38.52	+52 07 55.8	12.5 N	KK25
C/2014 E2	2014 09 01.30144	21 19 46.52	+55 49 19.3	11.6 N	H45	C/2014 E2	2014 09 02.86673	20 55 36.10	+52 07 27.8	12.3 N	J38
C/2014 E2	2014 09 01.83200	21 10 57.74	+54 35 10.7	12.4 N	B92	C/2014 E2	2014 09 02.86739	20 55 35.51	+52 07 22.1	12.2 N	J38
C/2014 E2	2014 09 01.83250	21 10 57.29	+54 35 06.5	12.5 N	B92	C/2014 E2	2014 09 02.86761	20 55 35.28	+52 07 20.0	12.3 N	J38
C/2014 E2	2014 09 01.83301	21 10 56.80	+54 35 02.5	12.4 N	B92	C/2014 E2	2014 09 02.87083	20 55 32.35	+52 06 53.0	12.4 N	233
C/2014 E2	2014 09 01.83352	21 10 56.32	+54 34 58.1	12.5 N	B92	C/2014 E2	2014 09 02.87346	20 55 30.14	+52 06 30.5	12.4 N	233
C/2014 E2	2014 09 01.83400	21 10 55.83	+54 34 53.8	12.4 N	B92	C/2014 E2	2014 09 02.87422	20 55 29.56	+52 06 23.4	12.6 N	KK25
C/2014 E2	2014 09 01.83451	21 10 55.38	+54 34 49.3	12.5 N	B92	C/2014 E2	2014 09 02.87594	20 55 28.11	+52 06 08.9	12.4 N	233
C/2014 E2	2014 09 01.83502	21 10 54.85	+54 34 45.3	12.5 N	B92	C/2014 E2	2014 09 02.87840	20 55 26.01	+52 05 47.8	12.4 N	233
C/2014 E2	2014 09 01.83553	21 10 54.38	+54 34 41.0	12.4 N	B92	C/2014 E2	2014 09 02.88088	20 55 23.97	+52 05 26.1	12.4 N	233
C/2014 E2	2014 09 01.83604	21 10 53.88	+54 34 36.6	12.4 N	B92	C/2014 E2	2014 09 02.88505	20 55 20.60	+52 04 50.3	12.6 N	KK25
C/2014 E2	2014 09 01.83655	21 10 53.40	+54 34 32.4	12.5 N	B92	C/2014 E2	2014 09 02.90554	20 55 03.18	+52 01 49.2	9.1 N	C36
C/2014 E2	2014 09 01.83706	21 10 52.94	+54 34 28.5	12.5 N	B92	C/2014 E2	2014 09 02.90700	20 55 02.01	+52 01 36.5	9.1 N	C36
C/2014 E2	2014 09 01.83755	21 10 52.41	+54 34 23.9	12.4 N	B92	C/2014 E2	2014 09 02.90773	20 55 01.42	+52 01 30.2	9.0 N	C36
C/2014 E2	2014 09 01.83806	21 10 51.92	+54 34 19.4	12.4 N	B92	C/2014 E2	2014 09 02.90846	20 55 00.83	+52 01 23.8	9.1 N	C36
C/2014 E2	2014 09 01.83856	21 10 51.43	+54 34 15.4	12.4 N	B92	C/2014 E2	2014 09 02.90919	20 55 00.22	+52 01 17.6	9.1 N	C36
C/2014 E2	2014 09 01.83907	21 10 50.90	+54 34 10.9	12.5 N	B92	C/2014 E2	2014 09 03.00126	20 53 44.99	+51 47 59.7	12.9 N	C23
C/2014 E2	2014 09 01.83958	21 10 50.45	+54 34 06.7	12.4 N	B92	C/2014 E2	2014 09 03.01113	20 53 37.04	+51 46 34.6	12.8 N	C23
C/2014 E2	2014 09 01.84009	21 10 49.90	+54 34 02.2	12.4 N	B92	C/2014 E2	2014 09 03.02100	20 53 28.98	+51 45 09.1	12.8 N	C23
C/2014 E2	2014 09 01.84060	21 10 49.46	+54 33 58.3	12.3 N	B92	C/2014 E2	2014 09 03.90722	20 42 19.57	+49 37 02.5	9.5 N	C36



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C/2014 E2	2014 09 03.90787	20 42 19.11	+49 36 56.5	9.5 N	C36
C/2014 E2	2014 09 03.90852	20 42 18.65	+49 36 50.6	9.5 N	C36
C/2014 E2	2014 09 03.90916	20 42 18.16	+49 36 44.8	9.5 N	C36
C/2014 E2	2014 09 03.90980	20 42 17.70	+49 36 39.0	9.4 N	C36
C/2014 E2	2014 09 03.91045	20 42 17.26	+49 36 34.4	9.6 N	C36
C/2014 E2	2014 09 03.91110	20 42 16.85	+49 36 29.0	9.5 N	C36
C/2014 E2	2014 09 03.91174	20 42 16.35	+49 36 23.3	9.6 N	C36
C/2014 E2	2014 09 03.91238	20 42 15.88	+49 36 17.4	9.6 N	C36
C/2014 E2	2014 09 03.91303	20 42 15.42	+49 36 11.6	9.5 N	C36
C/2014 E2	2014 09 03.91368	20 42 14.95	+49 36 06.1	9.6 N	C36
C/2014 E2	2014 09 03.91432	20 42 14.51	+49 36 00.2	9.5 N	C36
C/2014 E2	2014 09 03.91497	20 42 14.04	+49 35 54.7	9.5 N	C36
C/2014 E2	2014 09 03.91561	20 42 13.50	+49 35 47.9	9.5 N	C36
C/2014 E2	2014 09 03.91690	20 42 12.55	+49 35 37.3	9.5 N	C36
C/2014 E2	2014 09 03.93065	20 42 03.36	+49 33 43.4	11.8 N	I99
C/2014 E2	2014 09 03.93294	20 42 01.73	+49 33 23.5	11.8 N	I99
C/2014 E2	2014 09 03.93446	20 42 00.65	+49 33 10.4	11.9 N	I99
C/2014 E2	2014 09 04.03930	20 40 46.63	+49 17 59.2	12.2 N	I72
C/2014 E2	2014 09 04.04008	20 40 46.12	+49 17 53.1	12.2 N	I72
C/2014 E2	2014 09 04.04164	20 40 45.02	+49 17 39.4	12.2 N	I72
C/2014 E2	2014 09 04.31874	20 37 36.14	+48 37 40.7	11.5 N	H45
C/2014 E2	2014 09 04.32087	20 37 34.69	+48 37 22.0	11.6 N	H45
C/2014 E2	2014 09 04.32147	20 37 34.32	+48 37 16.8	11.6 N	H45
C/2014 E2	2014 09 04.32245	20 37 33.64	+48 37 08.0	11.6 N	H45
C/2014 E2	2014 09 04.32299	20 37 33.29	+48 37 03.3	11.6 N	H45
C/2014 E2	2014 09 04.32378	20 37 32.75	+48 36 56.7	11.6 N	H45
C/2014 E2	2014 09 04.32493	20 37 31.97	+48 36 46.8	11.6 N	H45
C/2014 E2	2014 09 04.32586	20 37 31.37	+48 36 38.5	11.5 N	H45
C/2014 E2	2014 09 04.32666	20 37 30.81	+48 36 31.8	11.5 N	H45
C/2014 E2	2014 09 04.32728	20 37 30.40	+48 36 26.2	11.5 N	H45
C/2014 E2	2014 09 04.90082	20 31 24.32	+47 14 06.3	12.0 N	C28
C/2014 E2	2014 09 04.90366	20 31 22.66	+47 13 44.4	12.5 N	C28
C/2014 E2	2014 09 04.90541	20 31 21.22	+47 13 26.7	9.7 N	C36
C/2014 E2	2014 09 04.90594	20 31 20.92	+47 13 22.2	9.6 N	C36
C/2014 E2	2014 09 04.90646	20 31 20.58	+47 13 17.4	9.8 N	C36
C/2014 E2	2014 09 04.90649	20 31 20.91	+47 13 19.5	12.2 N	C28
C/2014 E2	2014 09 04.90699	20 31 20.23	+47 13 13.2	9.7 N	C36
C/2014 E2	2014 09 04.90752	20 31 19.95	+47 13 08.6	9.6 N	C36
C/2014 E2	2014 09 04.90806	20 31 19.62	+47 13 04.0	9.5 N	C36
C/2014 E2	2014 09 04.90858	20 31 19.24	+47 12 59.4	9.6 N	C36
C/2014 E2	2014 09 04.90911	20 31 18.88	+47 12 55.2	9.6 N	C36
C/2014 E2	2014 09 04.90964	20 31 18.60	+47 12 50.7	9.7 N	C36
C/2014 E2	2014 09 04.91017	20 31 18.30	+47 12 45.9	9.5 N	C36
C/2014 E2	2014 09 04.91069	20 31 17.92	+47 12 41.3	9.5 N	C36
C/2014 E2	2014 09 04.91123	20 31 17.64	+47 12 36.7	9.6 N	C36
C/2014 E2	2014 09 04.91176	20 31 17.30	+47 12 32.1	9.5 N	C36
C/2014 E2	2014 09 04.91229	20 31 17.02	+47 12 27.5	9.6 N	C36
C/2014 E2	2014 09 04.91281	20 31 16.63	+47 12 23.3	9.7 N	C36
C/2014 E2	2014 09 04.91334	20 31 16.29	+47 12 18.6	9.7 N	C36
C/2014 E2	2014 09 05.12367	20 29 09.53	+46 42 23.8		I15
C/2014 E2	2014 09 05.12519	20 29 08.66	+46 42 10.5		I15
C/2014 E2	2014 09 05.12680	20 29 07.70	+46 41 56.6		I15
C/2014 E2	2014 09 05.87399	20 22 05.72	+44 56 28.5	14.1 N	C47

C/2014 E2	2014 09 05.87495	20 22 05.21	+44 56 20.6	14.0 N	C47
C/2014 E2	2014 09 05.87605	20 22 04.63	+44 56 10.8	13.9 N	C47
C/2014 E2	2014 09 05.87715	20 22 04.04	+44 56 01.7	13.9 N	C47
C/2014 E2	2014 09 05.87825	20 22 03.45	+44 55 52.4	14.0 N	C47
C/2014 E2	2014 09 05.87935	20 22 02.87	+44 55 43.0	14.1 N	C47
C/2014 E2	2014 09 05.89215	20 21 56.28	+44 53 57.0	12.0 N	J38
C/2014 E2	2014 09 05.89264	20 21 55.99	+44 53 52.9	12.0 N	J38
C/2014 E2	2014 09 05.89288	20 21 55.86	+44 53 50.9	12.0 N	J38
C/2014 E2	2014 09 05.89700	20 21 53.42	+44 53 13.9	12.0 N	C28
C/2014 E2	2014 09 05.89784	20 21 52.72	+44 53 05.7	9.8 N	C36
C/2014 E2	2014 09 05.89889	20 21 52.16	+44 52 56.7	9.7 N	C36
C/2014 E2	2014 09 05.89995	20 21 51.63	+44 52 48.2	9.7 N	C36
C/2014 E2	2014 09 05.90047	20 21 51.26	+44 52 43.7	9.8 N	C36
C/2014 E2	2014 09 05.90101	20 21 51.00	+44 52 39.1	9.8 N	C36
C/2014 E2	2014 09 05.90154	20 21 50.71	+44 52 34.5	9.8 N	C36
C/2014 E2	2014 09 05.90206	20 21 50.43	+44 52 30.1	9.7 N	C36
C/2014 E2	2014 09 05.90313	20 21 49.90	+44 52 21.3	9.7 N	C36
C/2014 E2	2014 09 05.90365	20 21 49.60	+44 52 16.7	9.7 N	C36
C/2014 E2	2014 09 05.90471	20 21 49.00	+44 52 08.1	9.8 N	C36
C/2014 E2	2014 09 05.90524	20 21 48.73	+44 52 03.6	9.7 N	C36
C/2014 E2	2014 09 05.90976	20 21 46.50	+44 51 27.3	12.6 N	C28
C/2014 E2	2014 09 05.91782	20 21 42.34	+44 50 22.7	12.0 N	I99
C/2014 E2	2014 09 05.91906	20 21 41.37	+44 50 08.0	12.9 N	C23
C/2014 E2	2014 09 05.92016	20 21 40.85	+44 49 58.6	12.9 N	C23
C/2014 E2	2014 09 05.92237	20 21 39.90	+44 49 44.5	12.0 N	I99
C/2014 E2	2014 09 05.92396	20 21 38.83	+44 49 27.1	12.1 N	C28
C/2014 E2	2014 09 05.92420	20 21 38.89	+44 49 29.1	12.0 N	I99
C/2014 E2	2014 09 05.92915	20 21 36.07	+44 48 43.5	13.0 N	C23
C/2014 E2	2014 09 05.93816	20 21 31.19	+44 47 28.0	12.6 N	C28
C/2014 E2	2014 09 05.95234	20 21 23.64	+44 45 29.4	12.1 N	C28
C/2014 E2	2014 09 06.10365	20 20 04.01	+44 24 23.1	13.6 N	B50
C/2014 E2	2014 09 06.11047	20 20 00.41	+44 23 26.0	13.6 N	B50
C/2014 E2	2014 09 06.11340	20 19 58.84	+44 23 01.4	13.6 N	B50
C/2014 E2	2014 09 06.12971	20 19 50.43	+44 20 44.3	13.5 N	B50
C/2014 E2	2014 09 06.13264	20 19 48.93	+44 20 20.0	13.5 N	B50
C/2014 E2	2014 09 06.81795	20 14 11.18	+42 46 15.6	13.7 N	C47
C/2014 E2	2014 09 06.82029	20 14 10.08	+42 45 56.5	14.1 N	C47
C/2014 E2	2014 09 06.82263	20 14 08.94	+42 45 37.4	14.2 N	C47
C/2014 E2	2014 09 06.82497	20 14 07.87	+42 45 18.4	14.4 N	C47
C/2014 E2	2014 09 06.82732	20 14 06.73	+42 44 59.4	14.2 N	C47
C/2014 E2	2014 09 06.83005	20 14 05.40	+42 44 37.0	14.4 N	C47
C/2014 E2	2014 09 06.89733	20 13 33.58	+42 35 30.2	12.8 N	K 160
C/2014 E2	2014 09 06.89886	20 13 32.86	+42 35 17.7	12.8 N	K 160
C/2014 E2	2014 09 06.90039	20 13 32.15	+42 35 05.0	12.8 N	K 160
C/2014 E2	2014 09 06.91321	20 13 26.29	+42 33 22.8	13.0 N	Z81
C/2014 E2	2014 09 06.93959	20 13 13.87	+42 29 48.1	13.1 N	Z81
C/2014 E2	2014 09 06.96025	20 13 04.18	+42 27 00.2	13.0 N	Z81

## C/2014 F2 (Tenagra)

C/2014 F2	2014 06 28.21017	15 22 24.52	+38 01 14.3	19.0 T	G45
C/2014 F2	2014 06 28.21024	15 22 24.40	+38 01 15.3	19.0 T	G45
C/2014 F2	2014 06 28.22826	15 22 23.03	+38 01 15.8	18.8 T	G45
C/2014 F2	2014 06 28.22833	15 22 23.00	+38 01 16.5	18.8 T	G45



C/2014 F2	2014 06 28.24090	15 22 22.08	+38 01 16.3	18.9 T	G45	P/2014 L2	2014 08 11.92713	00 01 25.18	-01 56 21.7	16.1 N	K 585
C/2014 F2	2014 06 28.24097	15 22 22.04	+38 01 16.9	18.9 T	G45	P/2014 L2	2014 08 11.92825	00 01 25.20	-01 56 21.9	16.2 N	K 585
C/2014 F2	2014 06 28.25355	15 22 21.07	+38 01 17.1	19.0 T	G45	P/2014 L2	2014 08 11.92937	00 01 25.20	-01 56 22.0	16.2 N	K 585
C/2014 F2	2014 06 28.25362	15 22 21.10	+38 01 17.5	19.0 T	G45	P/2014 L2	2014 08 11.93014	00 01 25.22	-01 56 22.2	16.2 N	K 585
C/2014 F2	2014 08 25.83794	14 42 33.58	+35 34 37.7	19.0 N	K 585	P/2014 L2	2014 08 15.03181	00 01 55.79	-02 05 43.9	15.8 T	3 095
C/2014 F2	2014 08 25.83865	14 42 33.58	+35 34 37.5	19.0 N	K 585	P/2014 L2	2014 08 15.03376	00 01 55.80	-02 05 44.2	15.8 T	3 095
C/2014 F2	2014 08 25.83935	14 42 33.57	+35 34 37.4	19.1 N	K 585	P/2014 L2	2014 08 15.03549	00 01 55.81	-02 05 44.6	15.8 T	3 095
C/2014 F2	2014 08 25.84006	14 42 33.57	+35 34 37.3	19.1 N	K 585	P/2014 L2	2014 08 15.96436	00 02 02.41	-02 08 52.0	16.0 N	A77
C/2014 F2	2014 08 25.84077	14 42 33.55	+35 34 37.1	19.2 N	K 585	P/2014 L2	2014 08 15.97220	00 02 02.53	-02 08 53.3	16.0 N	A77
C/2014 F2	2014 08 25.84148	14 42 33.55	+35 34 37.0	19.0 N	K 585	P/2014 L2	2014 08 15.98020	00 02 02.56	-02 08 55.6	16.0 N	A77
C/2014 F2	2014 08 25.84219	14 42 33.55	+35 34 36.8	19.1 N	K 585	P/2014 L2	2014 08 16.98009	00 02 08.26	-02 12 27.6	15.8 N	J38
C/2014 F2	2014 08 25.84290	14 42 33.53	+35 34 36.6	18.9 N	K 585	P/2014 L2	2014 08 16.98756	00 02 08.19	-02 12 28.9	15.9 N	J38
C/2014 F2	2014 08 25.84361	14 42 33.53	+35 34 36.5	18.9 N	K 585	P/2014 L2	2014 08 16.99253	00 02 08.21	-02 12 29.9	15.8 N	J38
C/2014 F2	2014 08 25.84431	14 42 33.52	+35 34 36.5	19.0 N	K 585	P/2014 L2	2014 08 17.03302	00 02 08.31	-02 12 38.3	16.5 N	K 160
C/2014 F2	2014 08 25.84502	14 42 33.52	+35 34 36.4	18.8 N	K 585	P/2014 L2	2014 08 17.03575	00 02 08.32	-02 12 38.9	16.5 N	K 160
C/2014 F2	2014 08 25.84573	14 42 33.52	+35 34 36.2	19.0 N	K 585	P/2014 L2	2014 08 17.03849	00 02 08.33	-02 12 39.5	16.5 N	K 160
C/2014 F2	2014 08 25.84644	14 42 33.53	+35 34 36.1	19.0 N	K 585	P/2014 L2	2014 08 18.02663	00 02 12.32	-02 16 18.2	16.5 N	K 160
C/2014 F2	2014 08 25.84679	14 42 33.52	+35 34 36.1	19.0 N	K 585	P/2014 L2	2014 08 18.02870	00 02 12.31	-02 16 18.5	16.5 N	K 160
<b>C/2014 G3 (PANSTARRS)</b>						P/2014 L2	2014 08 18.03076	00 02 12.32	-02 16 19.4	16.4 N	K 160
C/2014 G3	2014 06 21.16288	16 00 50.80	+05 20 46.7	19.1 T	G45	P/2014 L2	2014 08 18.90091	00 02 14.77	-02 19 40.6	16.4 N	585
C/2014 G3	2014 06 21.17427	16 00 49.88	+05 20 47.0	19.2 T	G45	P/2014 L2	2014 08 18.90162	00 02 14.76	-02 19 40.8	16.2 N	585
C/2014 G3	2014 06 21.18559	16 00 48.90	+05 20 45.8	19.1 T	G45	P/2014 L2	2014 08 18.90233	00 02 14.79	-02 19 40.7	16.3 N	585
C/2014 G3	2014 06 21.18566	16 00 48.92	+05 20 46.4	19.1 T	G45	P/2014 L2	2014 08 18.90304	00 02 14.77	-02 19 41.1	16.3 N	585
C/2014 G3	2014 06 21.19698	16 00 47.94	+05 20 46.4	19.1 T	G45	P/2014 L2	2014 08 18.90375	00 02 14.76	-02 19 41.5	16.2 N	585
C/2014 G3	2014 06 21.19705	16 00 47.96	+05 20 45.8	19.1 T	G45	P/2014 L2	2014 08 18.90446	00 02 14.77	-02 19 41.3	16.3 N	585
C/2014 G3	2014 06 27.16822	15 52 42.72	+05 14 20.4		G45	P/2014 L2	2014 08 18.90517	00 02 14.80	-02 19 41.6	16.4 N	585
C/2014 G3	2014 06 27.18102	15 52 41.74	+05 14 19.5	19.1 T	G45	P/2014 L2	2014 08 18.90589	00 02 14.79	-02 19 41.9	16.3 N	585
C/2014 G3	2014 06 27.19238	15 52 40.80	+05 14 18.7	19.0 T	G45	P/2014 L2	2014 08 18.90660	00 02 14.76	-02 19 41.9	16.3 N	585
C/2014 G3	2014 06 27.20378	15 52 39.90	+05 14 17.3	19.0 T	G45	P/2014 L2	2014 08 18.90731	00 02 14.76	-02 19 42.1	16.3 N	585
C/2014 G3	2014 06 27.20384	15 52 39.90	+05 14 17.8	19.0 T	G45	P/2014 L2	2014 08 18.97170	00 02 14.67	-02 19 59.1	16.0 N	A98
<b>P/2014 L2 (NEOWISE)</b>						P/2014 L2	2014 08 18.97418	00 02 14.77	-02 19 58.3	16.1 N	A98
P/2014 L2	2014 08 02.59446	23 58 26.86	-01 38 32.2	15.6 T	D95	P/2014 L2	2014 08 18.98122	00 02 14.73	-02 20 00.2	16.0 N	A98
P/2014 L2	2014 08 02.59884	23 58 26.98	-01 38 32.5		D95	P/2014 L2	2014 08 18.98370	00 02 14.74	-02 20 01.2	16.0 N	A98
P/2014 L2	2014 08 02.60248	23 58 27.05	-01 38 32.8		D95	P/2014 L2	2014 08 18.98619	00 02 14.79	-02 20 01.0	16.1 N	A98
P/2014 L2	2014 08 02.70896	23 58 29.63	-01 38 39.1	14.0 T	349	P/2014 L2	2014 08 18.99584	00 02 14.72	-02 20 03.9	15.9 N	A98
P/2014 L2	2014 08 02.71582	23 58 29.79	-01 38 39.5		349	P/2014 L2	2014 08 19.56463	00 02 15.90	-02 22 17.7	14.6 T	D95
P/2014 L2	2014 08 04.59060	23 59 15.90	-01 40 52.6	15.9 N	30D90	P/2014 L2	2014 08 19.57002	00 02 15.90	-02 22 19.2		D95
P/2014 L2	2014 08 04.59674	23 59 16.03	-01 40 53.1	15.9 N	30D90	P/2014 L2	2014 08 19.57540	00 02 15.91	-02 22 20.4		D95
P/2014 L2	2014 08 04.60289	23 59 16.16	-01 40 53.6	15.9 N	30D90	P/2014 L2	2014 08 19.64060	00 02 15.86	-02 22 35.8		900
P/2014 L2	2014 08 11.91633	00 01 25.08	-01 56 20.2	16.1 N	K 585	P/2014 L2	2014 08 19.64774	00 02 15.87	-02 22 37.4	14.3 T	900
P/2014 L2	2014 08 11.91703	00 01 25.06	-01 56 20.1	16.0 N	K 585	P/2014 L2	2014 08 19.99453	00 02 16.10	-02 24 03.1	16.0 N	C23
P/2014 L2	2014 08 11.91739	00 01 25.05	-01 56 20.1	16.0 N	K 585	P/2014 L2	2014 08 19.99782	00 02 16.09	-02 24 04.3	16.2 N	C23
P/2014 L2	2014 08 11.91810	00 01 25.07	-01 56 20.3	16.1 N	K 585	P/2014 L2	2014 08 20.00111	00 02 16.08	-02 24 05.1	16.2 N	C23
P/2014 L2	2014 08 11.91951	00 01 25.10	-01 56 20.6	16.0 N	K 585	P/2014 L2	2014 08 20.09612	00 02 16.04	-02 24 27.6	16.9 N	K A77
P/2014 L2	2014 08 11.92022	00 01 25.08	-01 56 20.7	16.0 N	K 585	P/2014 L2	2014 08 20.10211	00 02 16.00	-02 24 28.9	16.9 N	K A77
P/2014 L2	2014 08 11.92093	00 01 25.12	-01 56 20.8	16.2 N	K 585	P/2014 L2	2014 08 20.10722	00 02 16.01	-02 24 29.0	16.5 N	K A77
P/2014 L2	2014 08 11.92164	00 01 25.14	-01 56 20.7	16.1 N	K 585	P/2014 L2	2014 08 20.48186	00 02 16.241	-02 26 00.12	18.0 T	F51
P/2014 L2	2014 08 11.92235	00 01 25.12	-01 56 21.2	15.9 N	K 585	P/2014 L2	2014 08 20.49404	00 02 16.205	-02 26 03.46	18.2 T	F51
P/2014 L2	2014 08 11.92305	00 01 25.14	-01 56 21.3	15.9 N	K 585	P/2014 L2	2014 08 20.51838	00 02 16.142	-02 26 09.56	18.2 T	F51
P/2014 L2	2014 08 11.92376	00 01 25.15	-01 56 21.3	15.9 N	K 585	P/2014 L2	2014 08 20.52127	00 02 16.134	-02 26 10.03	17.9 T	F51
P/2014 L2	2014 08 11.92488	00 01 25.16	-01 56 21.3	16.0 N	K 585	P/2014 L2	2014 08 20.54576	00 02 16.065	-02 26 16.12	17.9 T	F51
P/2014 L2	2014 08 11.92601	00 01 25.17	-01 56 21.3	16.0 N	K 585	P/2014 L2	2014 08 20.55796	00 02 16.030	-02 26 19.41	17.9 T	F51
						P/2014 L2	2014 08 20.59089	00 02 16.30	-02 26 21.6	16.0 N	30D90



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P/2014 L2	2014 08 20.59243	00 02 16.29	-02 26 22.2	16.0 N	30D90
P/2014 L2	2014 08 20.60013	00 02 16.28	-02 26 24.2	16.0 N	30D90
P/2014 L2	2014 08 22.13233	00 02 13.87	-02 33 06.0	16.0 N	A77
P/2014 L2	2014 08 22.13709	00 02 13.86	-02 33 07.3	16.0 N	A77
P/2014 L2	2014 08 22.14164	00 02 13.83	-02 33 08.5	16.0 N	A77
P/2014 L2	2014 08 22.47910	00 02 13.226	-02 34 35.01	18.1 T	F51
P/2014 L2	2014 08 22.49133	00 02 13.158	-02 34 38.47	18.2 T	F51
P/2014 L2	2014 08 22.50362	00 02 13.092	-02 34 41.57	18.2 T	F51
P/2014 L2	2014 08 22.51589	00 02 13.025	-02 34 45.01	18.4 T	F51
P/2014 L2	2014 08 22.75683	00 02 12.16	-02 35 51.5		K 367
P/2014 L2	2014 08 22.75804	00 02 12.14	-02 35 51.7		K 367
P/2014 L2	2014 08 22.75926	00 02 12.13	-02 35 52.1	14.7 T	K 367
P/2014 L2	2014 08 23.02256	00 02 11.53	-02 37 03.0	15.9 N	I99
P/2014 L2	2014 08 23.02715	00 02 11.49	-02 37 04.5	16.0 N	I99
P/2014 L2	2014 08 23.04554	00 02 11.35	-02 37 09.5	16.0 N	I99
P/2014 L2	2014 08 23.34237	00 02 10.13	-02 38 29.6	15.4 N	H47
P/2014 L2	2014 08 23.36140	00 02 10.01	-02 38 34.8	15.5 N	H47
P/2014 L2	2014 08 23.36887	00 02 09.96	-02 38 36.8	15.5 N	H47
P/2014 L2	2014 08 23.37711	00 02 09.90	-02 38 39.2	15.5 N	H47
P/2014 L2	2014 08 24.33399	00 02 05.54	-02 43 04.3	15.3 N	H47
P/2014 L2	2014 08 24.34208	00 02 05.47	-02 43 06.7	15.3 N	H47
P/2014 L2	2014 08 24.34937	00 02 05.41	-02 43 08.8	15.3 N	H47
P/2014 L2	2014 08 24.35951	00 02 05.33	-02 43 11.7	15.3 N	H47
P/2014 L2	2014 08 25.05433	00 02 01.48	-02 46 29.9	16.7 N	J01
P/2014 L2	2014 08 25.06150	00 02 01.46	-02 46 31.5	16.9 N	J01
P/2014 L2	2014 08 25.07535	00 02 01.21	-02 46 36.0	16.6 N	K 160
P/2014 L2	2014 08 25.07809	00 02 01.23	-02 46 36.5	16.6 N	K 160
P/2014 L2	2014 08 25.08084	00 02 01.18	-02 46 37.5	16.5 N	K 160
P/2014 L2	2014 08 26.08586	00 01 54.33	-02 51 29.0	15.9 N	A02
P/2014 L2	2014 08 26.09087	00 01 54.31	-02 51 30.4	15.9 N	A02
P/2014 L2	2014 08 26.10593	00 01 54.14	-02 51 34.8	15.9 N	A02
P/2014 L2	2014 08 26.96367	00 01 47.47	-02 55 49.9	15.9 N	213
P/2014 L2	2014 08 26.97389	00 01 47.40	-02 55 53.1	15.9 N	213
P/2014 L2	2014 08 26.97877	00 01 47.34	-02 55 53.7	15.9 N	213
P/2014 L2	2014 08 27.02906	00 01 46.82	-02 56 10.8	16.6 N	C23
P/2014 L2	2014 08 27.03235	00 01 46.69	-02 56 11.8	16.5 N	C23
P/2014 L2	2014 08 27.03673	00 01 46.62	-02 56 13.2	16.5 N	C23
P/2014 L2	2014 08 27.04343	00 01 46.63	-02 56 14.2	17.4 N	K L22
P/2014 L2	2014 08 27.04488	00 01 46.53	-02 56 14.7	16.7 N	K L22
P/2014 L2	2014 08 27.04634	00 01 46.51	-02 56 15.0	16.5 N	K L22
P/2014 L2	2014 08 27.04780	00 01 46.47	-02 56 16.2	16.2 N	K L22
P/2014 L2	2014 08 27.05216	00 01 46.44	-02 56 16.7	16.9 N	K L22
P/2014 L2	2014 08 27.05653	00 01 46.42	-02 56 18.7	17.0 N	K L22
P/2014 L2	2014 08 28.02875	00 01 37.57	-03 01 13.7	16.0 N	K15
P/2014 L2	2014 08 28.03579	00 01 37.51	-03 01 15.9	15.9 N	K15
P/2014 L2	2014 08 28.04281	00 01 37.42	-03 01 18.2	16.1 N	K15
P/2014 L2	2014 08 28.04984	00 01 37.37	-03 01 19.9	16.0 N	K15
P/2014 L2	2014 08 28.96888	00 01 28.00	-03 06 04.9	16.5 N	K 160
P/2014 L2	2014 08 28.97163	00 01 27.96	-03 06 05.7	16.5 N	K 160
P/2014 L2	2014 08 28.97437	00 01 27.93	-03 06 06.3	16.6 N	K 160
P/2014 L2	2014 08 30.06250	00 01 15.28	-03 11 51.3	15.9 N	K15
P/2014 L2	2014 08 30.06953	00 01 15.16	-03 11 52.4	16.0 N	K15
P/2014 L2	2014 08 30.07655	00 01 15.08	-03 11 55.5	15.9 N	K15

P/2014 L2	2014 08 30.08358	00 01 14.94	-03 11 56.7	16.1 N	K15
P/2014 L2	2014 08 30.49509	00 01 10.010	-03 14 06.73	17.6 T	F51
P/2014 L2	2014 08 30.50612	00 01 09.832	-03 14 10.61	17.8 T	F51
P/2014 L2	2014 08 30.51716	00 01 09.676	-03 14 13.89	17.8 T	F51
P/2014 L2	2014 08 30.52823	00 01 09.499	-03 14 17.61	17.9 T	F51
P/2014 L2	2014 08 30.64427	00 01 08.13	-03 14 57.2	16.1 N	400
P/2014 L2	2014 08 30.65778	00 01 07.92	-03 15 01.5	16.1 N	400
P/2014 L2	2014 08 30.67803	00 01 07.63	-03 15 08.2	16.0 N	400
P/2014 L2	2014 08 31.11334	00 01 01.91	-03 17 28.6	16.5 N	K A77
P/2014 L2	2014 08 31.11905	00 01 01.87	-03 17 30.8	16.5 N	K A77
P/2014 L2	2014 08 31.52162	00 00 56.87	-03 19 41.4	14.6 T	D95
P/2014 L2	2014 08 31.52593	00 00 56.80	-03 19 43.1		D95
P/2014 L2	2014 08 31.53131	00 00 56.71	-03 19 44.5		D95
P/2014 L2	2014 08 31.95253	00 00 50.75	-03 22 04.0	15.9 N	C23
P/2014 L2	2014 08 31.95322	00 00 50.82	-03 22 03.5	15.7 N	C10
P/2014 L2	2014 08 31.95910	00 00 50.73	-03 22 06.1	16.0 N	C23
P/2014 L2	2014 08 31.96568	00 00 50.52	-03 22 08.8	15.6 N	C23
P/2014 L2	2014 08 31.97493	00 00 50.57	-03 22 10.2	15.8 N	I99
P/2014 L2	2014 08 31.97663	00 00 50.40	-03 22 11.6	15.7 N	C10
P/2014 L2	2014 08 31.98156	00 00 50.43	-03 22 13.3	15.8 N	I99
P/2014 L2	2014 08 31.99808	00 00 50.11	-03 22 17.0	15.8 N	I99
P/2014 L2	2014 09 01.00160	00 00 50.01	-03 22 19.8	15.6 N	C10
P/2014 L2	2014 09 01.02640	00 00 49.62	-03 22 27.9	15.7 N	C10
P/2014 L2	2014 09 01.03955	00 00 49.47	-03 22 31.4	16.1 N	B74
P/2014 L2	2014 09 01.04481	00 00 49.37	-03 22 33.1	16.1 N	B74
P/2014 L2	2014 09 01.05139	00 00 49.27	-03 22 35.4	16.1 N	B74
P/2014 L2	2014 09 01.40580	00 00 44.00	-03 24 31.6	16.1 T	H45
P/2014 L2	2014 09 01.40851	00 00 43.96	-03 24 32.6	16.1 T	H45
P/2014 L2	2014 09 01.40986	00 00 43.93	-03 24 33.0	16.1 T	H45
P/2014 L2	2014 09 01.41170	00 00 43.88	-03 24 33.6	16.0 T	H45
P/2014 L2	2014 09 01.41313	00 00 43.87	-03 24 33.9	16.0 T	H45
P/2014 L2	2014 09 01.41423	00 00 43.82	-03 24 34.7	16.1 T	H45
P/2014 L2	2014 09 03.27819	00 00 15.50	-03 34 59.0	15.9 T	691
P/2014 L2	2014 09 03.29848	00 00 15.19	-03 35 05.8	16.0 T	691
P/2014 L2	2014 09 03.31877	00 00 14.80	-03 35 13.2	16.2 T	691
P/2014 L2	2014 09 05.96155	23 59 29.12	-03 50 20.4	15.6 N	K C23
P/2014 L2	2014 09 05.97054	23 59 29.01	-03 50 22.9	16.1 N	K C23
P/2014 L2	2014 09 05.97878	23 59 28.79	-03 50 26.4	16.2 N	K C23

P/2014 L3 (Hill)

P/2014 L3	2014 06 21.39253	20 57 12.25	-16 08 07.2		G45
P/2014 L3	2014 06 21.40392	20 57 12.80	-16 08 09.4		G45
P/2014 L3	2014 06 21.41531	20 57 13.38	-16 08 11.0	18.7 T	G45
P/2014 L3	2014 06 21.42670	20 57 13.93	-16 08 13.1	18.0 T	G45
P/2014 L3	2014 06 21.43809	20 57 14.49	-16 08 14.6	18.1 T	G45
P/2014 L3	2014 06 21.44948	20 57 15.08	-16 08 16.8	18.5 T	G45
P/2014 L3	2014 06 23.39544	20 58 54.79	-16 13 50.3		G45
P/2014 L3	2014 06 23.40683	20 58 55.31	-16 13 52.7	17.9 T	G45
P/2014 L3	2014 06 23.42041	20 58 55.92	-16 13 55.9		G45
P/2014 L3	2014 06 23.44326	20 58 57.04	-16 13 58.8	18.2 T	G45
P/2014 L3	2014 08 02.65402	21 11 58.59	-20 11 56.6	16.9 T	349
P/2014 L3	2014 08 02.66736	21 11 58.50	-20 12 02.4		349
P/2014 L3	2014 08 04.44020	21 11 55.27	-20 24 03.3	16.8 N	30D90



P/2014 L3	2014 08 04.44787	21 11 55.25	-20 24 06.6	16.8 N	30D90
P/2014 L3	2014 08 04.45249	21 11 55.22	-20 24 08.7	16.8 N	30D90
P/2014 L3	2014 08 08.05163	21 11 44.92	-20 48 15.0	17.1 N	KK25
P/2014 L3	2014 08 08.06334	21 11 44.77	-20 48 20.7	17.0 N	KK25
P/2014 L3	2014 08 12.93535	21 11 33.30	-21 18 01.6	17.8 T	Y00
P/2014 L3	2014 08 12.94432	21 11 33.29	-21 18 05.4	17.8 T	Y00
P/2014 L3	2014 08 12.95312	21 11 33.24	-21 18 09.3	17.8 T	Y00
P/2014 L3	2014 08 14.40004	21 11 30.259	-21 26 29.52	18.7 T	F51
P/2014 L3	2014 08 14.41193	21 11 30.183	-21 26 33.72	18.4 T	F51
P/2014 L3	2014 08 14.42378	21 11 30.130	-21 26 37.41	18.4 T	F51
P/2014 L3	2014 08 14.43566	21 11 30.055	-21 26 41.61	18.4 T	F51
P/2014 L3	2014 08 14.44814	21 11 30.56	-21 26 35.9	16.9 N	30D90
P/2014 L3	2014 08 14.45122	21 11 30.54	-21 26 36.9	16.9 N	30D90
P/2014 L3	2014 08 14.45583	21 11 30.52	-21 26 38.4	16.9 N	30D90
P/2014 L3	2014 08 18.49734	21 11 27.83	-21 47 41.0	18.3 N	474
P/2014 L3	2014 08 18.49803	21 11 27.82	-21 47 41.3	18.4 N	474
P/2014 L3	2014 08 18.50428	21 11 27.81	-21 47 43.1	18.4 N	474
P/2014 L3	2014 08 20.53545	21 11 30.37	-21 57 11.7	17.1 N	30D90
P/2014 L3	2014 08 20.53854	21 11 30.36	-21 57 12.8	17.1 N	30D90
P/2014 L3	2014 08 20.54469	21 11 30.35	-21 57 14.4	17.1 N	30D90
P/2014 L3	2014 08 21.15001	21 11 31.26	-21 59 56.6	17.9 T	Y00
P/2014 L3	2014 08 21.16339	21 11 31.29	-22 00 00.0	17.9 T	Y00
P/2014 L3	2014 08 21.17503	21 11 31.28	-22 00 02.9	17.8 T	Y00
P/2014 L3	2014 08 25.58773	21 11 49.97	-22 17 11.2	17.4 N	30D90
P/2014 L3	2014 08 25.59389	21 11 49.98	-22 17 12.6	17.4 N	30D90
P/2014 L3	2014 08 25.59851	21 11 49.98	-22 17 13.5	17.4 N	30D90
P/2014 L3	2014 08 25.91255	21 11 52.01	-22 18 27.9	17.3 N	K 585
P/2014 L3	2014 08 25.91363	21 11 52.01	-22 18 28.1	17.4 N	K 585
P/2014 L3	2014 08 25.91434	21 11 52.01	-22 18 28.2	17.4 N	K 585

**C/2014 L5 (Lemmon)**

C/2014 L5	2013 10 12.42716	01 41 52.13	+21 58 26.9	21.2 T	G96
C/2014 L5	2013 10 12.43414	01 41 51.67	+21 58 26.4	22.1 T	G96
C/2014 L5	2013 10 12.44119	01 41 51.28	+21 58 26.3	21.1 T	G96
C/2014 L5	2013 10 12.44821	01 41 50.85	+21 58 26.5	21.3 T	G96

**C/2014 M1 (PANSTARRS)**

C/2014 M1	2014 08 16.39098	19 30 07.25	-41 51 12.1	19.7 N	K 474
C/2014 M1	2014 08 16.39309	19 30 07.07	-41 51 11.9	19.3 N	K 474
C/2014 M1	2014 08 16.39520	19 30 06.91	-41 51 11.3	18.3 N	K 474
C/2014 M1	2014 08 16.39731	19 30 06.77	-41 51 10.7	18.4 N	K 474
C/2014 M1	2014 08 29.45929	19 13 48.02	-41 29 57.2	19.9 N	K E07
C/2014 M1	2014 08 29.46834	19 13 47.42	-41 29 56.2	20.2 N	K E07
C/2014 M1	2014 08 29.47739	19 13 46.79	-41 29 54.8	20.3 N	K E07

**C/2014 M3 (Catalina)**

C/2014 M3	2014 08 06.70632	22 12 34.61	+13 11 38.2	17.8 T	349
C/2014 M3	2014 08 06.72178	22 12 30.59	+13 11 18.2		349
C/2014 M3	2014 08 17.93382	21 22 43.40	+08 32 50.0	17.8 N	K 157
C/2014 M3	2014 08 17.93817	21 22 42.25	+08 32 42.8	18.2 N	K 157
C/2014 M3	2014 08 17.94253	21 22 41.09	+08 32 35.7	18.1 N	K 157
C/2014 M3	2014 08 19.33445	21 16 33.81	+07 53 45.2		32H06
C/2014 M3	2014 08 19.33611	21 16 33.37	+07 53 42.4		32H06
C/2014 M3	2014 08 19.33750	21 16 32.96	+07 53 40.9		32H06

C/2014 M3	2014 08 19.33885	21 16 32.65	+07 53 38.4	17.6 T	32H06
C/2014 M3	2014 08 19.40364	21 16 15.757	+07 51 49.91	19.7 T	F51
C/2014 M3	2014 08 19.41609	21 16 12.474	+07 51 28.98	19.7 T	F51
C/2014 M3	2014 08 19.42857	21 16 09.173	+07 51 07.89	19.6 T	F51
C/2014 M3	2014 08 19.44102	21 16 05.872	+07 50 46.78	19.6 T	F51
C/2014 M3	2014 08 22.05749	21 04 48.05	+06 36 23.0	19.0 N	K 181
C/2014 M3	2014 08 22.06496	21 04 46.15	+06 36 10.3	18.9 N	K 181
C/2014 M3	2014 08 22.91814	21 01 09.31	+06 11 43.8	17.9 N	K 157
C/2014 M3	2014 08 22.92235	21 01 08.27	+06 11 36.9	18.2 N	K 157
C/2014 M3	2014 08 22.92657	21 01 07.15	+06 11 29.4	17.9 N	K 157
C/2014 M3	2014 08 25.95911	20 48 36.01	+04 44 21.4	18.4 N	K 585
C/2014 M3	2014 08 25.95982	20 48 35.85	+04 44 20.2	18.5 N	K 585
C/2014 M3	2014 08 25.96054	20 48 35.64	+04 44 19.1	18.5 N	K 585
C/2014 M3	2014 08 25.96125	20 48 35.50	+04 44 17.7	18.5 N	K 585
C/2014 M3	2014 08 25.96196	20 48 35.33	+04 44 16.4	18.6 N	K 585
C/2014 M3	2014 08 25.96268	20 48 35.15	+04 44 15.1	18.4 N	K 585
C/2014 M3	2014 08 25.96339	20 48 34.97	+04 44 14.0	18.2 N	K 585
C/2014 M3	2014 08 25.96410	20 48 34.82	+04 44 13.0	18.1 N	K 585
C/2014 M3	2014 08 25.96481	20 48 34.62	+04 44 11.1	17.8 N	K 585
C/2014 M3	2014 08 25.96552	20 48 34.44	+04 44 10.0	17.9 N	K 585
C/2014 M3	2014 08 28.89966	20 37 02.35	+03 20 35.0	18.6 N	K 203
C/2014 M3	2014 08 28.92961	20 36 55.37	+03 19 44.2	18.8 N	K 203

**P/2014 MG<sub>4</sub> (Spacewatch-PANSTARRS)**

P/2014 MG <sub>4</sub>	2014 08 16.42616	20 43 03.76	-18 09 28.8	18.5 N	474
P/2014 MG <sub>4</sub>	2014 08 16.42809	20 43 03.69	-18 09 28.8	18.6 N	474
P/2014 MG <sub>4</sub>	2014 08 16.43198	20 43 03.56	-18 09 29.0	18.9 N	474
P/2014 MG <sub>4</sub>	2014 08 18.88228	20 41 40.30	-18 10 51.7	18.6 N	K 585
P/2014 MG <sub>4</sub>	2014 08 18.88368	20 41 40.25	-18 10 51.7	18.7 N	K 585
P/2014 MG <sub>4</sub>	2014 08 18.88509	20 41 40.20	-18 10 51.4	18.7 N	K 585
P/2014 MG <sub>4</sub>	2014 08 18.88649	20 41 40.17	-18 10 51.9	18.6 N	K 585
P/2014 MG <sub>4</sub>	2014 08 18.88789	20 41 40.08	-18 10 51.3	18.6 N	K 585
P/2014 MG <sub>4</sub>	2014 08 18.88930	20 41 40.04	-18 10 51.0	18.4 N	K 585
P/2014 MG <sub>4</sub>	2014 08 18.89070	20 41 40.00	-18 10 50.7	18.5 N	K 585
P/2014 MG <sub>4</sub>	2014 08 27.34311	20 37 18.814	-18 13 51.40	19.7 T	F51
P/2014 MG <sub>4</sub>	2014 08 27.35452	20 37 18.480	-18 13 51.52	19.7 T	F51
P/2014 MG <sub>4</sub>	2014 08 27.36592	20 37 18.150	-18 13 51.72	19.7 T	F51
P/2014 MG <sub>4</sub>	2014 08 27.37732	20 37 17.817	-18 13 51.90	19.8 T	F51

**C/2014 N2 (PANSTARRS)**

C/2014 N2	2014 07 28.54090	21 07 15.56	-52 50 22.6		1 Q62
C/2014 N2	2014 07 28.54200	21 07 15.15	-52 50 25.9		1 Q62
C/2014 N2	2014 07 28.54310	21 07 14.72	-52 50 29.2	17.4 T	1 Q62
C/2014 N2	2014 08 20.49013	18 14 27.58	-61 42 33.8	20.0 N	K E07
C/2014 N2	2014 08 20.49500	18 14 25.47	-61 42 32.5	19.1 N	K E07
C/2014 N2	2014 08 20.50576	18 14 20.95	-61 42 32.3	19.6 N	K E07

**C/2014 N3 (NEOWISE)**

C/2014 N3	2014 08 04.60560	01 54 03.22	-35 28 15.6	15.8 N	30D90
C/2014 N3	2014 08 04.61314	01 54 03.11	-35 28 16.8	15.8 N	30D90
C/2014 N3	2014 08 04.62083	01 54 03.01	-35 28 17.4	15.8 N	30D90
C/2014 N3	2014 08 06.74485	01 53 34.44	-35 31 54.9	14.9 T	349
C/2014 N3	2014 08 06.75668	01 53 34.27	-35 31 56.2		349
C/2014 N3	2014 08 13.30145	01 51 30.36	-35 43 27.7	16.4 N	W96



C/2014 N3	2014 08 13.34228	01 51 29.40	-35 43 32.0	16.4 N	W96
C/2014 N3	2014 08 14.57581	01 50 59.87	-35 45 43.4	15.8 N	30D90
C/2014 N3	2014 08 14.58146	01 50 59.75	-35 45 44.0	15.8 N	30D90
C/2014 N3	2014 08 14.58713	01 50 59.59	-35 45 44.6	15.8 N	30D90
C/2014 N3	2014 08 15.59593	01 50 33.716	-35 47 35.70	18.7 T	F51
C/2014 N3	2014 08 15.60399	01 50 33.437	-35 47 36.71	18.5 T	F51
C/2014 N3	2014 08 15.61206	01 50 33.286	-35 47 37.35	18.6 T	F51
C/2014 N3	2014 08 15.62010	01 50 32.996	-35 47 38.52	18.4 T	F51
C/2014 N3	2014 08 18.64537	01 49 07.61	-35 52 56.7	16.7 N	474
C/2014 N3	2014 08 18.64637	01 49 07.55	-35 52 56.6	16.4 N	474
C/2014 N3	2014 08 18.64737	01 49 07.53	-35 52 56.5	16.6 N	474
C/2014 N3	2014 08 18.64838	01 49 07.52	-35 52 56.9	16.5 N	474
C/2014 N3	2014 08 25.62343	01 45 03.77	-36 04 10.8	15.6 N	30D90
C/2014 N3	2014 08 25.62720	01 45 03.62	-36 04 11.1	15.6 N	30D90
C/2014 N3	2014 08 25.63285	01 45 03.39	-36 04 11.6	15.6 N	30D90
C/2014 N3	2014 08 27.13576	01 44 02.23	-36 06 19.3	15.8 N	213
C/2014 N3	2014 08 27.15173	01 44 01.53	-36 06 21.7	15.8 N	213
C/2014 N3	2014 08 27.16451	01 44 00.95	-36 06 20.8	15.8 N	213
C/2014 N3	2014 09 02.26908	01 39 22.43	-36 12 59.2	16.1 N	W96
C/2014 N3	2014 09 02.29534	01 39 21.11	-36 13 00.4	16.1 N	W96
C/2014 N3	2014 09 05.03494	01 37 00.94	-36 14 46.6	16.0 T	Y00
C/2014 N3	2014 09 05.04585	01 37 00.35	-36 14 47.2	16.0 T	Y00
C/2014 N3	2014 09 05.05617	01 36 59.77	-36 14 48.3	16.1 T	Y00

**P/2014 O3 (PANSTARRS)**

P/2014 O3	2014 08 22.37895	20 16 34.892	-25 59 10.35	20.7 T	F51
P/2014 O3	2014 08 22.39042	20 16 34.628	-25 59 11.31	20.7 T	F51
P/2014 O3	2014 08 22.40190	20 16 34.367	-25 59 12.14	20.7 T	F51
P/2014 O3	2014 08 22.41334	20 16 34.106	-25 59 13.13	20.8 T	F51

**C/2014 OE<sub>4</sub> (PANSTARRS)**

C/2014 OE <sub>4</sub>	2014 08 13.37203	15 31 40.37	-14 33 25.5		1 Q62
C/2014 OE <sub>4</sub>	2014 08 13.37446	15 31 40.39	-14 33 24.9		1 Q62
C/2014 OE <sub>4</sub>	2014 08 13.37689	15 31 40.39	-14 33 24.3	20.1 T	1 Q62

**C/2014 Q1 (PANSTARRS)**

C/2014 Q1	2014 08 16.54746	00 10 46.415	-26 08 10.86	18.4 T	F51
C/2014 Q1	2014 08 16.55800	00 10 46.013	-26 08 14.82	18.3 T	F51
C/2014 Q1	2014 08 16.56853	00 10 45.614	-26 08 18.71	18.3 T	F51
C/2014 Q1	2014 08 16.57903	00 10 45.218	-26 08 22.66	18.4 T	F51
C/2014 Q1	2014 08 18.14790	00 09 46.03	-26 18 03.7	17.4 T	KW96
C/2014 Q1	2014 08 18.15543	00 09 45.76	-26 18 06.6	17.5 T	KW96
C/2014 Q1	2014 08 18.16360	00 09 45.42	-26 18 09.5	17.5 T	KW96
C/2014 Q1	2014 08 18.17371	00 09 45.01	-26 18 13.3	17.4 T	KW96
C/2014 Q1	2014 08 18.18125	00 09 44.73	-26 18 16.1	17.4 T	KW96
C/2014 Q1	2014 08 18.19174	00 09 44.30	-26 18 20.3	17.5 T	KW96
C/2014 Q1	2014 08 18.19927	00 09 44.02	-26 18 23.0	17.5 T	KW96
C/2014 Q1	2014 08 18.20854	00 09 43.69	-26 18 26.9	17.4 T	KW96
C/2014 Q1	2014 08 18.21724	00 09 43.31	-26 18 30.1	17.3 T	KW96
C/2014 Q1	2014 08 18.22477	00 09 43.02	-26 18 32.6	17.5 T	KW96
C/2014 Q1	2014 08 18.23530	00 09 42.63	-26 18 37.0	17.4 T	KW96
C/2014 Q1	2014 08 18.24660	00 09 42.15	-26 18 40.7	17.3 T	KW96
C/2014 Q1	2014 08 18.36222	00 09 37.65	-26 19 25.1		32H06
C/2014 Q1	2014 08 18.36433	00 09 37.57	-26 19 25.9		32H06

C/2014 Q1	2014 08 18.36644	00 09 37.49	-26 19 26.6	17.3 T	32H06
C/2014 Q1	2014 08 18.53043	00 09 31.19	-26 20 25.3	17.7 T	474
C/2014 Q1	2014 08 18.53324	00 09 31.08	-26 20 26.5	17.7 T	474
C/2014 Q1	2014 08 18.53676	00 09 30.93	-26 20 28.0	17.7 T	474
C/2014 Q1	2014 08 18.63369	00 09 27.15	-26 21 04.0	17.2 N	30D90
C/2014 Q1	2014 08 18.63666	00 09 27.02	-26 21 05.2	17.3 T	30D90
C/2014 Q1	2014 08 18.64322	00 09 26.76	-26 21 07.6	17.2 N	30D90
C/2014 Q1	2014 08 18.64381	00 09 26.73	-26 21 07.8	17.3 T	30D90
C/2014 Q1	2014 08 18.65095	00 09 26.45	-26 21 10.5	17.3 T	30D90
C/2014 Q1	2014 08 18.65274	00 09 26.37	-26 21 11.2	17.2 N	30D90
C/2014 Q1	2014 08 19.17832	00 09 05.68	-26 24 27.7	18.1 T	Y00
C/2014 Q1	2014 08 19.18342	00 09 05.43	-26 24 29.2	18.0 T	Y00
C/2014 Q1	2014 08 19.19229	00 09 05.10	-26 24 32.7	18.0 T	Y00
C/2014 Q1	2014 08 19.19560	00 09 04.96	-26 24 33.9	17.9 T	Y00
C/2014 Q1	2014 08 19.20189	00 09 04.70	-26 24 36.1	18.0 T	Y00
C/2014 Q1	2014 08 19.20314	00 09 04.68	-26 24 36.6	18.0 T	Y00
C/2014 Q1	2014 08 19.28125	00 09 01.59	-26 25 07.3	17.7 T	KH21
C/2014 Q1	2014 08 19.28860	00 09 01.29	-26 25 10.3	17.9 T	KH21
C/2014 Q1	2014 08 19.29597	00 09 00.98	-26 25 13.2	17.7 T	KH21
C/2014 Q1	2014 08 19.445227	00 08 55.100	-26 26 08.16	17.4 T	29 568
C/2014 Q1	2014 08 19.451559	00 08 54.841	-26 26 10.58	17.8 T	29 568
C/2014 Q1	2014 08 19.502579	00 08 52.760	-26 26 29.74	18.4 T	29 568
C/2014 Q1	2014 08 19.518246	00 08 52.112	-26 26 35.60	18.1 T	29 568
C/2014 Q1	2014 08 19.69835	00 08 44.87	-26 27 42.7		900
C/2014 Q1	2014 08 19.70550	00 08 44.60	-26 27 45.5		900
C/2014 Q1	2014 08 19.71264	00 08 44.29	-26 27 48.1	17.3 T	900
C/2014 Q1	2014 08 20.18604	00 08 25.28	-26 30 42.0	18.1 T	Y00
C/2014 Q1	2014 08 20.19350	00 08 24.92	-26 30 45.6	18.3 T	Y00
C/2014 Q1	2014 08 20.20052	00 08 24.58	-26 30 49.0	18.4 T	Y00
C/2014 Q1	2014 08 20.36644	00 08 17.82	-26 31 51.8	17.6 N	NH06
C/2014 Q1	2014 08 20.37012	00 08 17.68	-26 31 53.0	17.7 N	NH06
C/2014 Q1	2014 08 20.39025	00 08 16.80	-26 32 00.8	17.7 N	NH06
C/2014 Q1	2014 08 20.39384	00 08 16.71	-26 32 01.4	17.7 N	NH06
C/2014 Q1	2014 08 20.44839	00 08 14.46	-26 32 21.6	18.3 N	6 U69
C/2014 Q1	2014 08 20.45227	00 08 14.27	-26 32 23.7	18.0 N	6 U69
C/2014 Q1	2014 08 20.45616	00 08 14.12	-26 32 24.9	18.1 N	6 U69
C/2014 Q1	2014 08 20.45979	00 08 13.92	-26 32 26.4	18.2 N	6 U69
C/2014 Q1	2014 08 20.46368	00 08 13.80	-26 32 27.8	18.1 N	6 U69
C/2014 Q1	2014 08 20.61517	00 08 07.65	-26 33 21.5		1 Q62
C/2014 Q1	2014 08 20.61684	00 08 07.58	-26 33 22.2		1 Q62
C/2014 Q1	2014 08 20.61852	00 08 07.50	-26 33 22.9	17.0 T	1 Q62
C/2014 Q1	2014 08 21.00136	00 07 51.67	-26 35 47.8	17.0 N	KA77
C/2014 Q1	2014 08 21.00542	00 07 51.49	-26 35 48.7	17.3 N	KA77
C/2014 Q1	2014 08 22.51257	00 06 47.99	-26 45 06.9		1 Q62
C/2014 Q1	2014 08 22.51421	00 06 47.90	-26 45 07.8		1 Q62
C/2014 Q1	2014 08 22.51583	00 06 47.82	-26 45 08.0	16.7 T	1 Q62
C/2014 Q1	2014 08 25.06084	00 04 55.08	-27 00 51.8	17.4 N	KA77
C/2014 Q1	2014 08 25.07386	00 04 54.59	-27 00 56.5	16.8 N	KA77
C/2014 Q1	2014 08 25.08233	00 04 54.20	-27 01 00.4	17.3 N	KA77
C/2014 Q1	2014 08 25.08726	00 04 53.97	-27 01 02.2	17.1 N	KA77
C/2014 Q1	2014 08 25.54772	00 04 33.03	-27 03 49.2	16.9 N	30D90
C/2014 Q1	2014 08 25.55233	00 04 32.79	-27 03 51.1	16.9 N	30D90
C/2014 Q1	2014 08 25.55846	00 04 32.53	-27 03 53.3	16.9 N	30D90



C/2014 Q1	2014 08 26.47481	00 03 49.973	-27 09 31.74	18.3 T	F51
C/2014 Q1	2014 08 26.49722	00 03 48.904	-27 09 39.96	18.2 T	F51
C/2014 Q1	2014 08 26.50845	00 03 48.368	-27 09 44.08	18.2 T	F51
C/2014 Q1	2014 08 28.76965	00 02 00.02	-27 23 24.1	16.7 N	30D90
C/2014 Q1	2014 08 28.77581	00 01 59.72	-27 23 26.2	16.7 N	30D90
C/2014 Q1	2014 08 28.78196	00 01 59.41	-27 23 28.4	16.7 N	30D90
C/2014 Q1	2014 08 31.59746	23 59 38.31	-27 40 15.8	17.0 T	D95
C/2014 Q1	2014 08 31.59961	23 59 38.20	-27 40 16.5		D95
C/2014 Q1	2014 08 31.60069	23 59 38.13	-27 40 16.7		D95
C/2014 Q1	2014 09 03.30906	23 57 15.83	-27 55 57.4	16.9 T	703
C/2014 Q1	2014 09 03.31516	23 57 15.49	-27 55 59.2	17.0 T	703
C/2014 Q1	2014 09 03.32127	23 57 15.17	-27 56 01.6	17.0 T	703
C/2014 Q1	2014 09 03.32737	23 57 14.84	-27 56 03.6	17.0 T	703
C/2014 Q1	2014 09 03.44366	23 57 08.75	-27 56 41.5	17.7 N	; Q62
C/2014 Q1	2014 09 03.44449	23 57 08.72	-27 56 41.9	17.9 N	; Q62
C/2014 Q1	2014 09 03.44534	23 57 08.67	-27 56 42.1	17.8 N	; Q62
C/2014 Q1	2014 09 03.44618	23 57 08.63	-27 56 41.4	17.8 N	; Q62
C/2014 Q1	2014 09 04.52558	23 56 09.964	-28 02 50.97	18.2 T	F51
C/2014 Q1	2014 09 04.53634	23 56 09.365	-28 02 54.54	18.2 T	F51
C/2014 Q1	2014 09 04.54712	23 56 08.767	-28 02 58.17	18.2 T	F51
C/2014 Q1	2014 09 04.55792	23 56 08.168	-28 03 01.77	18.2 T	F51

## C/2014 Q2 (Lovejoy)

C/2014 Q2	2014 07 01.77867	05 26 02.42	-45 26 19.6	16.0 N	Q80
C/2014 Q2	2014 07 01.78601	05 26 03.40	-45 26 16.0	15.6 N	Q80
C/2014 Q2	2014 07 01.79333	05 26 04.13	-45 26 12.9	15.7 N	Q80
C/2014 Q2	2014 08 17.71993	06 47 58.86	-41 48 39.3	14.8 T	Q80
C/2014 Q2	2014 08 17.72627	06 47 59.54	-41 48 40.2	14.9 T	Q80
C/2014 Q2	2014 08 17.73262	06 48 00.29	-41 48 39.4	14.6 T	Q80
C/2014 Q2	2014 08 18.75559	06 49 36.11	-41 46 36.9	14.7 T	Q80
C/2014 Q2	2014 08 18.76632	06 49 37.32	-41 46 36.2	15.1 T	Q80
C/2014 Q2	2014 08 18.77605	06 49 38.24	-41 46 35.4	14.9 T	Q80
C/2014 Q2	2014 08 19.27681	06 50 25.08	-41 45 39.4	14.8 T	Y00
C/2014 Q2	2014 08 19.27771	06 50 25.14	-41 45 39.6	14.8 T	Y00
C/2014 Q2	2014 08 19.27925	06 50 25.31	-41 45 38.7	14.8 T	Y00
C/2014 Q2	2014 08 19.31663	06 50 28.82	-41 45 33.6	15.2 T	K I39
C/2014 Q2	2014 08 19.32569	06 50 29.65	-41 45 32.8	15.1 T	K I39
C/2014 Q2	2014 08 19.33492	06 50 30.49	-41 45 31.7	15.2 T	K I39
C/2014 Q2	2014 08 19.34198	06 50 31.15	-41 45 31.0	15.3 T	K I39
C/2014 Q2	2014 08 19.34860	06 50 31.79	-41 45 30.6	15.3 T	K I39
C/2014 Q2	2014 08 19.35788	06 50 32.63	-41 45 29.8	15.2 T	K I39
C/2014 Q2	2014 08 19.36039	06 50 32.95	-41 45 29.2	15.6 T	W95
C/2014 Q2	2014 08 19.36067	06 50 32.93	-41 45 28.2	15.4 N	W88
C/2014 Q2	2014 08 19.36362	06 50 33.24	-41 45 29.0	15.5 T	W95
C/2014 Q2	2014 08 19.37063	06 50 33.88	-41 45 28.2	15.5 T	W95
C/2014 Q2	2014 08 19.38005	06 50 34.71	-41 45 28.5	15.1 T	K I39
C/2014 Q2	2014 08 19.39306	06 50 36.02	-41 45 25.3	15.5 T	W96
C/2014 Q2	2014 08 19.39524	06 50 36.15	-41 45 24.9	16.1 N	W88
C/2014 Q2	2014 08 19.39774	06 50 36.35	-41 45 26.0	15.3 T	K I39
C/2014 Q2	2014 08 19.39948	06 50 36.59	-41 45 24.9	15.5 T	W96
C/2014 Q2	2014 08 19.40836	06 50 37.42	-41 45 24.1	15.5 T	W96
C/2014 Q2	2014 08 19.41257	06 50 37.74	-41 45 23.1	15.6 N	W88
C/2014 Q2	2014 08 19.41989	06 50 38.46	-41 45 22.9	15.6 T	W96

C/2014 Q2	2014 08 19.72760	06 51 07.14	-41 44 48.9	15.1 N	Q80
C/2014 Q2	2014 08 19.74664	06 51 08.93	-41 44 47.7	15.2 N	Q80
C/2014 Q2	2014 08 19.76899	06 51 11.07	-41 44 44.7	15.1 N	Q80
C/2014 Q2	2014 08 19.78470	06 51 12.35	-41 44 42.9	15.1 N	Q80
C/2014 Q2	2014 08 19.80088	06 51 13.96	-41 44 41.8	15.1 N	Q80
C/2014 Q2	2014 08 19.81183	06 51 14.95	-41 44 39.5	15.1 N	Q80
C/2014 Q2	2014 08 20.27512	06 51 58.14	-41 43 51.5	15.8 T	Y00
C/2014 Q2	2014 08 20.27666	06 51 58.35	-41 43 50.7	16.1 T	Y00
C/2014 Q2	2014 08 20.27879	06 51 58.37	-41 43 52.0	16.3 T	Y00
C/2014 Q2	2014 08 20.28149	06 51 58.77	-41 43 50.5	15.8 T	Y00
C/2014 Q2	2014 08 20.28748	06 51 59.27	-41 43 50.4	16.2 T	Y00
C/2014 Q2	2014 08 20.28826	06 51 59.39	-41 43 49.9	15.7 T	Y00
C/2014 Q2	2014 08 20.28959	06 51 59.52	-41 43 49.5	16.1 T	Y00
C/2014 Q2	2014 08 20.29194	06 51 59.69	-41 43 50.0	16.2 T	Y00
C/2014 Q2	2014 08 20.30055	06 52 00.52	-41 43 48.4	16.0 T	Y00
C/2014 Q2	2014 08 20.39234	06 52 09.00	-41 43 38.4	15.3 N	W88
C/2014 Q2	2014 08 20.39498	06 52 09.25	-41 43 38.2	16.3 N	W88
C/2014 Q2	2014 08 20.39647	06 52 09.38	-41 43 38.5	15.5 N	G39
C/2014 Q2	2014 08 20.39722	06 52 09.45	-41 43 38.4	15.4 N	G39
C/2014 Q2	2014 08 20.39796	06 52 09.49	-41 43 38.4	15.6 N	G39
C/2014 Q2	2014 08 20.39872	06 52 09.60	-41 43 38.4	15.5 N	G39
C/2014 Q2	2014 08 20.39947	06 52 09.68	-41 43 38.3	15.5 N	G39
C/2014 Q2	2014 08 20.40022	06 52 09.72	-41 43 38.2	15.4 N	G39
C/2014 Q2	2014 08 20.40097	06 52 09.75	-41 43 38.2	14.7 N	G39
C/2014 Q2	2014 08 20.40171	06 52 09.81	-41 43 38.1	14.7 N	G39
C/2014 Q2	2014 08 20.40247	06 52 09.89	-41 43 38.1	14.8 N	G39
C/2014 Q2	2014 08 20.40322	06 52 09.94	-41 43 38.0	14.7 N	G39
C/2014 Q2	2014 08 20.40397	06 52 09.99	-41 43 37.7	15.5 N	G39
C/2014 Q2	2014 08 20.40472	06 52 10.03	-41 43 37.7	15.5 N	G39
C/2014 Q2	2014 08 20.40546	06 52 10.16	-41 43 37.6	14.7 N	G39
C/2014 Q2	2014 08 20.40622	06 52 10.23	-41 43 37.6	14.8 N	G39
C/2014 Q2	2014 08 20.40697	06 52 10.33	-41 43 37.4	15.4 N	G39
C/2014 Q2	2014 08 20.40773	06 52 10.37	-41 43 37.5	14.9 N	G39
C/2014 Q2	2014 08 20.40847	06 52 10.44	-41 43 37.4	14.8 N	G39
C/2014 Q2	2014 08 20.40922	06 52 10.51	-41 43 37.4	14.8 N	G39
C/2014 Q2	2014 08 20.40998	06 52 10.58	-41 43 37.3	15.1 N	G39
C/2014 Q2	2014 08 20.41632	06 52 11.19	-41 43 36.2	16.3 N	W88
C/2014 Q2	2014 08 20.77238	06 52 44.23	-41 43 00.6	15.4 N	Q80
C/2014 Q2	2014 08 20.78672	06 52 45.51	-41 42 58.7	15.0 N	Q80
C/2014 Q2	2014 08 20.80106	06 52 46.84	-41 42 57.2	15.2 N	Q80
C/2014 Q2	2014 08 21.33624	06 53 36.43	-41 42 03.4	15.8 N	W88
C/2014 Q2	2014 08 21.35709	06 53 38.34	-41 42 01.5	15.6 N	W88
C/2014 Q2	2014 08 21.40204	06 53 42.48	-41 41 57.7	15.6 N	W88
C/2014 Q2	2014 08 21.68779	06 54 08.81	-41 41 29.1	16.3 N	474
C/2014 Q2	2014 08 21.68878	06 54 08.90	-41 41 29.1	16.3 N	474
C/2014 Q2	2014 08 21.68978	06 54 09.02	-41 41 29.1	16.3 N	474
C/2014 Q2	2014 08 21.69076	06 54 09.07	-41 41 29.1	16.4 N	474
C/2014 Q2	2014 08 21.69176	06 54 09.19	-41 41 29.0	16.3 N	474
C/2014 Q2	2014 08 22.34668	06 55 09.43	-41 40 28.5	15.8 N	W88
C/2014 Q2	2014 08 22.35013	06 55 09.79	-41 40 28.8	15.5 N	W96
C/2014 Q2	2014 08 22.35723	06 55 10.48	-41 40 28.3	15.5 N	W96
C/2014 Q2	2014 08 22.36522	06 55 11.22	-41 40 27.3	15.5 N	W96
C/2014 Q2	2014 08 22.37434	06 55 11.93	-41 40 26.7	14.6 N	W88



C/2014 Q2	2014 08 22.37638	06 55 12.19	-41 40 26.8	15.5 N	W96
C/2014 Q2	2014 08 22.38450	06 55 12.92	-41 40 26.0	15.5 N	W96
C/2014 Q2	2014 08 22.39614	06 55 14.03	-41 40 25.2	15.5 N	W96
C/2014 Q2	2014 08 22.40436	06 55 14.72	-41 40 24.5	15.4 N	W96
C/2014 Q2	2014 08 22.41574	06 55 15.77	-41 40 23.7	15.5 N	W96
C/2014 Q2	2014 08 23.34089	06 56 40.24	-41 39 05.5	16.1 T	Y00
C/2014 Q2	2014 08 23.34529	06 56 40.56	-41 39 04.5	16.3 T	Y00
C/2014 Q2	2014 08 23.34998	06 56 41.09	-41 39 04.5	16.0 T	Y00
C/2014 Q2	2014 08 23.36947	06 56 42.95	-41 39 01.4	15.2 T	W95
C/2014 Q2	2014 08 23.37180	06 56 43.18	-41 39 01.0	15.2 T	W95
C/2014 Q2	2014 08 23.37798	06 56 43.68	-41 39 00.6	15.0 T	W95
C/2014 Q2	2014 08 23.38239	06 56 44.13	-41 39 00.3	15.0 T	W95
C/2014 Q2	2014 08 23.42088	06 56 47.60	-41 38 57.8	16.9 T	W96
C/2014 Q2	2014 08 23.42306	06 56 47.82	-41 38 57.3	16.9 T	W96
C/2014 Q2	2014 08 23.42525	06 56 48.01	-41 38 57.3	16.9 T	W96
C/2014 Q2	2014 08 23.76125	06 57 18.57	-41 38 28.5	14.9 N	3 Q62
C/2014 Q2	2014 08 23.77660	06 57 19.95	-41 38 27.4	14.9 N	3 Q62
C/2014 Q2	2014 08 23.78186	06 57 20.45	-41 38 27.5		1 Q62
C/2014 Q2	2014 08 23.78395	06 57 20.68	-41 38 27.4		1 Q62
C/2014 Q2	2014 08 23.78613	06 57 20.87	-41 38 27.3	14.6 T	1 Q62
C/2014 Q2	2014 08 23.79806	06 57 21.91	-41 38 25.9	15.3 T	25Q62
C/2014 Q2	2014 08 23.80118	06 57 22.23	-41 38 25.3	15.2 T	25Q62
C/2014 Q2	2014 08 24.36500	06 58 13.37	-41 37 41.8	15.1 T	W99
C/2014 Q2	2014 08 24.37042	06 58 13.86	-41 37 41.4	15.2 T	W99
C/2014 Q2	2014 08 24.37584	06 58 14.35	-41 37 41.1	15.1 T	W99
C/2014 Q2	2014 08 24.71476	06 58 45.04	-41 37 14.9	14.7 N	Q80
C/2014 Q2	2014 08 24.72237	06 58 45.71	-41 37 15.5	14.9 N	Q80
C/2014 Q2	2014 08 24.73002	06 58 46.33	-41 37 14.4	14.9 N	Q80
C/2014 Q2	2014 08 24.77171	06 58 50.20	-41 37 10.8	15.4 N	Q68
C/2014 Q2	2014 08 24.78197	06 58 51.05	-41 37 09.9	15.4 N	Q68
C/2014 Q2	2014 08 24.79579	06 58 52.34	-41 37 09.0	15.4 N	Q68
C/2014 Q2	2014 08 24.79946	06 58 52.68	-41 37 08.8	15.3 N	Q68
C/2014 Q2	2014 08 24.80779	06 58 53.34	-41 37 09.3	14.9 N	K Q80
C/2014 Q2	2014 08 24.81037	06 58 53.61	-41 37 08.9	15.0 N	K Q80
C/2014 Q2	2014 08 25.74514	07 00 17.78	-41 36 01.7		1 Q62
C/2014 Q2	2014 08 25.74681	07 00 17.91	-41 36 01.8		1 Q62
C/2014 Q2	2014 08 25.74848	07 00 18.07	-41 36 01.9	14.3 T	1 Q62
C/2014 Q2	2014 08 26.38541	07 01 15.07	-41 35 21.0	15.4 N	W96
C/2014 Q2	2014 08 26.39125	07 01 15.68	-41 35 20.5	15.5 N	W96
C/2014 Q2	2014 08 26.39773	07 01 16.18	-41 35 20.5	15.5 N	W96
C/2014 Q2	2014 08 26.40421	07 01 16.79	-41 35 20.3	15.4 N	W96
C/2014 Q2	2014 08 26.41069	07 01 17.33	-41 35 20.0	15.5 N	W96
C/2014 Q2	2014 08 27.41605	07 02 46.74	-41 34 19.4	15.1 T	K I47
C/2014 Q2	2014 08 27.42203	07 02 47.25	-41 34 18.8	15.1 T	K I47
C/2014 Q2	2014 08 27.42749	07 02 47.72	-41 34 19.2	15.1 T	K I47
C/2014 Q2	2014 08 27.72730	07 03 18.31	-41 33 59.9	14.9 N	30D90
C/2014 Q2	2014 08 27.77468	07 03 18.52	-41 33 59.8	14.9 N	30D90
C/2014 Q2	2014 08 27.77705	07 03 18.73	-41 33 59.7	14.9 N	30D90
C/2014 Q2	2014 08 29.34820	07 05 36.88	-41 32 44.2	15.2 N	W96
C/2014 Q2	2014 08 29.36626	07 05 38.39	-41 32 43.3	15.3 N	W96
C/2014 Q2	2014 08 31.37741	07 08 32.84	-41 31 30.4	15.2 N	W96
C/2014 Q2	2014 08 31.39957	07 08 34.76	-41 31 29.2	15.6 N	W96
C/2014 Q2	2014 08 31.76522	07 09 06.21	-41 31 18.9	15.3 N	Q68

C/2014 Q2	2014 08 31.76798	07 09 06.39	-41 31 19.2	15.3 N	Q68
C/2014 Q2	2014 08 31.77635	07 09 07.07	-41 31 18.6	15.8 N	; Q62
C/2014 Q2	2014 08 31.77718	07 09 07.20	-41 31 18.6	15.8 N	; Q62
C/2014 Q2	2014 08 31.77801	07 09 07.26	-41 31 18.6	15.8 N	; Q62
C/2014 Q2	2014 08 31.77884	07 09 07.30	-41 31 18.6	15.8 N	; Q62
C/2014 Q2	2014 09 05.36794	07 15 33.73	-41 30 20.7	15.0 N	W96
C/2014 Q2	2014 09 05.39672	07 15 36.08	-41 30 21.0	15.1 N	W96
C/2014 Q2	2014 09 06.28758	07 16 49.40	-41 30 24.5	15.0 N	W96
C/2014 Q2	2014 09 06.33345	07 16 53.15	-41 30 25.7	15.1 N	W96

## C/2014 Q3 (Borisov)

C/2014 Q3	2014 08 22.01418	05 55 50.16	+20 41 31.4	17.0 T	L51
C/2014 Q3	2014 08 22.02970	05 55 51.13	+20 41 52.0	16.9 T	L51
C/2014 Q3	2014 08 22.04533	05 55 52.19	+20 42 13.5	16.9 T	L51
C/2014 Q3	2014 08 22.96400	05 56 56.83	+21 02 40.6	16.5 T	123
C/2014 Q3	2014 08 23.03419	05 57 01.61	+21 04 13.3	17.0 T	123
C/2014 Q3	2014 08 23.05396	05 57 02.96	+21 04 38.5	17.8 T	461
C/2014 Q3	2014 08 23.05523	05 57 03.07	+21 04 40.0	17.9 T	461
C/2014 Q3	2014 08 23.05650	05 57 03.21	+21 04 41.9	17.8 T	461
C/2014 Q3	2014 08 23.05778	05 57 03.27	+21 04 43.6	17.7 T	461
C/2014 Q3	2014 08 23.08346	05 57 05.03	+21 05 18.2	17.7 T	461
C/2014 Q3	2014 08 23.08485	05 57 05.13	+21 05 19.8	17.5 T	461
C/2014 Q3	2014 08 23.12181	05 57 07.75	+21 06 09.3		K J95
C/2014 Q3	2014 08 23.13116	05 57 08.37	+21 06 21.7		K J95
C/2014 Q3	2014 08 23.14076	05 57 09.06	+21 06 34.8		K J95
C/2014 Q3	2014 08 23.15021	05 57 09.72	+21 06 47.7	17.7 T	K J95
C/2014 Q3	2014 08 23.17023	05 57 11.04	+21 07 15.4	17.5 T	2 I89
C/2014 Q3	2014 08 23.17120	05 57 11.25	+21 07 16.1	16.1 T	2 I89
C/2014 Q3	2014 08 23.17169	05 57 11.24	+21 07 17.5		6 I89
C/2014 Q3	2014 08 23.17214	05 57 11.24	+21 07 17.9	17.5 T	2 I89
C/2014 Q3	2014 08 23.17309	05 57 11.38	+21 07 19.3	17.1 T	2 I89
C/2014 Q3	2014 08 23.17403	05 57 11.46	+21 07 20.4	17.0 T	2 I89
C/2014 Q3	2014 08 23.17495	05 57 11.52	+21 07 22.1	17.3 T	2 I89
C/2014 Q3	2014 08 23.17579	05 57 11.54	+21 07 23.1		6 I89
C/2014 Q3	2014 08 23.17589	05 57 11.55	+21 07 22.2	17.1 T	2 I89
C/2014 Q3	2014 08 23.17682	05 57 11.62	+21 07 24.4	17.0 T	2 I89
C/2014 Q3	2014 08 23.17714	05 57 11.63	+21 07 25.3	16.7 T	6 I89
C/2014 Q3	2014 08 23.17773	05 57 11.62	+21 07 25.1	16.9 T	2 I89
C/2014 Q3	2014 08 23.17865	05 57 11.73	+21 07 26.3	17.1 T	2 I89
C/2014 Q3	2014 08 23.17961	05 57 11.78	+21 07 27.7	17.0 T	2 I89
C/2014 Q3	2014 08 23.18053	05 57 11.87	+21 07 28.7	17.1 T	2 I89
C/2014 Q3	2014 08 23.18237	05 57 12.05	+21 07 31.1	16.5 T	2 I89
C/2014 Q3	2014 08 23.18329	05 57 12.10	+21 07 33.3	17.1 T	2 I89
C/2014 Q3	2014 08 23.33114	05 57 22.42	+21 10 53.7	17.7 T	Y00
C/2014 Q3	2014 08 23.33998	05 57 23.10	+21 11 07.6	17.3 T	Y00
C/2014 Q3	2014 08 23.34892	05 57 23.73	+21 11 21.7	17.6 T	Y00
C/2014 Q3	2014 08 23.38089	05 57 25.92	+21 12 04.1	16.9 T	G39
C/2014 Q3	2014 08 23.38285	05 57 26.06	+21 12 06.7	17.0 T	G39
C/2014 Q3	2014 08 23.38383	05 57 26.11	+21 12 07.7	17.0 T	G39
C/2014 Q3	2014 08 23.38481	05 57 26.18	+21 12 09.0	17.1 T	G39
C/2014 Q3	2014 08 23.38580	05 57 26.26	+21 12 10.5	16.8 T	G39
C/2014 Q3	2014 08 23.38777	05 57 26.39	+21 12 13.5	16.7 T	G39
C/2014 Q3	2014 08 23.38875	05 57 26.47	+21 12 14.5	16.6 T	G39



C/2014 Q3	2014 08 23.38973	05 57 26.54	+21 12 16.1	16.2 T	G39
C/2014 Q3	2014 08 23.39072	05 57 26.60	+21 12 17.0	16.4 T	G39
C/2014 Q3	2014 08 23.40053	05 57 27.24	+21 12 30.4	16.0 T	G39
C/2014 Q3	2014 08 23.40250	05 57 27.38	+21 12 33.5	16.9 T	G39
C/2014 Q3	2014 08 23.40348	05 57 27.42	+21 12 34.6	16.8 T	G39
C/2014 Q3	2014 08 23.40447	05 57 27.48	+21 12 36.1	16.8 T	G39
C/2014 Q3	2014 08 23.40644	05 57 27.60	+21 12 38.6	16.6 T	G39
C/2014 Q3	2014 08 23.40825	05 57 27.96	+21 12 37.6	17.1 T	14H06
C/2014 Q3	2014 08 23.40840	05 57 27.75	+21 12 41.2	16.7 T	G39
C/2014 Q3	2014 08 23.41263	05 57 28.26	+21 12 43.0	17.6 T	14H06
C/2014 Q3	2014 08 24.05849	05 58 13.65	+21 27 21.9	17.8 T	K 595
C/2014 Q3	2014 08 24.06565	05 58 14.16	+21 27 31.8	17.8 T	K 595
C/2014 Q3	2014 08 24.07281	05 58 14.65	+21 27 41.2	17.5 T	K 595
C/2014 Q3	2014 08 24.09473	05 58 16.07	+21 28 10.2	16.6 T	K C23
C/2014 Q3	2014 08 24.09692	05 58 16.30	+21 28 13.3	17.1 T	K C23
C/2014 Q3	2014 08 24.09912	05 58 16.44	+21 28 15.6	16.9 T	K C23
C/2014 Q3	2014 08 24.10131	05 58 16.56	+21 28 18.1	17.5 T	K C23
C/2014 Q3	2014 08 24.10248	05 58 16.80	+21 28 22.0	17.9 T	K 958
C/2014 Q3	2014 08 24.10350	05 58 16.82	+21 28 22.1	17.1 T	K C23
C/2014 Q3	2014 08 24.10569	05 58 16.86	+21 28 24.2	17.4 T	K C23
C/2014 Q3	2014 08 24.10788	05 58 17.05	+21 28 28.7	17.2 T	K C23
C/2014 Q3	2014 08 24.11093	05 58 17.39	+21 28 34.2	18.1 T	K 958
C/2014 Q3	2014 08 24.12014	05 58 17.98	+21 28 46.8	18.1 T	K 958
C/2014 Q3	2014 08 24.12501	05 58 18.36	+21 28 52.5		K J95
C/2014 Q3	2014 08 24.13334	05 58 18.91	+21 29 04.3		K J95
C/2014 Q3	2014 08 24.14170	05 58 19.54	+21 29 15.6	17.6 T	K J95
C/2014 Q3	2014 08 24.18365	05 58 22.38	+21 30 12.5		19 I89
C/2014 Q3	2014 08 24.18685	05 58 22.70	+21 30 18.0		19 I89
C/2014 Q3	2014 08 24.38948	05 58 37.11	+21 35 01.1	17.5 T	KW96
C/2014 Q3	2014 08 24.39677	05 58 37.60	+21 35 10.6	17.3 T	KW96
C/2014 Q3	2014 08 24.39818	05 58 37.56	+21 35 11.4	17.7 T	G39
C/2014 Q3	2014 08 24.39929	05 58 37.66	+21 35 11.7	18.0 T	G39
C/2014 Q3	2014 08 24.40041	05 58 37.69	+21 35 13.7	17.5 T	G39
C/2014 Q3	2014 08 24.40264	05 58 37.89	+21 35 17.0	17.6 T	G39
C/2014 Q3	2014 08 24.40375	05 58 37.98	+21 35 19.1	17.4 T	G39
C/2014 Q3	2014 08 24.40461	05 58 38.13	+21 35 21.8	17.5 T	KW96
C/2014 Q3	2014 08 24.40711	05 58 38.19	+21 35 24.6	17.6 T	G39
C/2014 Q3	2014 08 24.41396	05 58 38.80	+21 35 33.9	17.4 T	KW96
C/2014 Q3	2014 08 24.43918	05 58 40.49	+21 36 05.6	17.4 T	KH15
C/2014 Q3	2014 08 24.44233	05 58 40.68	+21 36 09.9	17.3 T	KH15
C/2014 Q3	2014 08 24.44548	05 58 40.84	+21 36 14.3	17.3 T	KH15
C/2014 Q3	2014 08 25.06898	05 59 24.98	+21 50 36.7	17.6 N	K I81
C/2014 Q3	2014 08 25.06969	05 59 25.06	+21 50 37.4	17.6 N	I81
C/2014 Q3	2014 08 25.07359	05 59 25.33	+21 50 42.9	17.7 N	K I81
C/2014 Q3	2014 08 25.08161	05 59 25.93	+21 50 53.7	18.0 N	K I81
C/2014 Q3	2014 08 25.08566	05 59 26.28	+21 50 59.7	17.9 N	K I81
C/2014 Q3	2014 08 25.09504	05 59 26.97	+21 51 09.8	17.5 N	K I81
C/2014 Q3	2014 08 25.10041	05 59 27.25	+21 51 22.2	17.9 N	KA77
C/2014 Q3	2014 08 25.10619	05 59 27.77	+21 51 31.0	17.9 N	KA77
C/2014 Q3	2014 08 25.12719	05 59 29.22	+21 51 59.8	16.4 N	KA77
C/2014 Q3	2014 08 25.13310	05 59 29.53	+21 52 07.4	16.9 N	KA77
C/2014 Q3	2014 08 25.19549	05 59 34.04	+21 53 34.8	17.2 N	3 G40
C/2014 Q3	2014 08 25.20207	05 59 34.45	+21 53 44.2	16.9 N	3 G40

C/2014 Q3	2014 08 25.21946	05 59 35.69	+21 54 08.4	17.9 N	3 G40
C/2014 Q3	2014 08 26.10549	06 00 38.59	+22 14 55.3	16.6 N	I81
C/2014 Q3	2014 08 26.11223	06 00 38.97	+22 15 04.3	17.4 N	K I81
C/2014 Q3	2014 08 26.11468	06 00 39.06	+22 15 07.1	16.8 N	I81
C/2014 Q3	2014 08 26.11898	06 00 39.49	+22 15 14.0	17.3 N	I81
C/2014 Q3	2014 08 27.04229	06 01 45.16	+22 37 14.7	17.4 N	K 470
C/2014 Q3	2014 08 27.04473	06 01 45.33	+22 37 18.2	17.6 N	K 470
C/2014 Q3	2014 08 27.05500	06 01 46.08	+22 37 32.4	17.0 N	I81
C/2014 Q3	2014 08 27.06802	06 01 46.92	+22 37 51.2	17.7 N	I81
C/2014 Q3	2014 08 27.06827	06 01 47.00	+22 37 52.0	17.4 N	K I81
C/2014 Q3	2014 08 27.07863	06 01 47.61	+22 38 05.4	16.9 N	K C23
C/2014 Q3	2014 08 27.08119	06 01 47.92	+22 38 10.7	17.1 N	I81
C/2014 Q3	2014 08 27.08302	06 01 47.96	+22 38 10.6	16.8 N	K C23
C/2014 Q3	2014 08 27.08741	06 01 48.25	+22 38 17.9	17.0 N	K C23
C/2014 Q3	2014 08 27.10044	06 01 49.30	+22 38 36.7	16.8 N	K C23
C/2014 Q3	2014 08 28.10670	06 03 01.08	+23 03 04.9	17.3 N	461
C/2014 Q3	2014 08 28.10856	06 03 01.27	+23 03 08.1	17.4 N	461
C/2014 Q3	2014 08 28.11042	06 03 01.39	+23 03 10.3	17.6 N	461
C/2014 Q3	2014 08 28.11174	06 03 01.62	+23 03 12.8	16.3 N	C23
C/2014 Q3	2014 08 28.11613	06 03 01.84	+23 03 18.0	16.8 N	C23
C/2014 Q3	2014 08 28.11942	06 03 02.02	+23 03 23.2	16.7 N	C23
C/2014 Q3	2014 08 29.06574	06 04 09.87	+23 26 46.6	17.0 N	I81
C/2014 Q3	2014 08 29.06721	06 04 09.98	+23 26 49.3	17.3 N	K L04
C/2014 Q3	2014 08 29.06931	06 04 10.19	+23 26 52.2	17.7 N	K I81
C/2014 Q3	2014 08 29.07001	06 04 10.23	+23 26 53.2	16.9 N	I81
C/2014 Q3	2014 08 29.07017	06 04 10.22	+23 26 53.4	17.4 N	K L04
C/2014 Q3	2014 08 29.07431	06 04 10.55	+23 26 59.7	17.1 N	I81
C/2014 Q3	2014 08 29.08453	06 04 11.20	+23 27 15.3	17.4 N	K L04
C/2014 Q3	2014 08 29.38167	06 04 32.64	+23 34 45.4	17.3 N	KW96
C/2014 Q3	2014 08 29.38973	06 04 33.16	+23 34 57.7	17.4 N	KW96
C/2014 Q3	2014 08 31.09740	06 06 36.49	+24 18 25.8	16.2 N	K 157
C/2014 Q3	2014 08 31.09993	06 06 36.70	+24 18 29.8	16.2 N	K 157
C/2014 Q3	2014 08 31.11129	06 06 37.50	+24 18 47.9	16.2 N	K 157
C/2014 Q3	2014 08 31.11402	06 06 37.68	+24 18 51.6	16.4 N	K 157
C/2014 Q3	2014 08 31.15260	06 06 40.42	+24 19 51.2	17.2 N	KA77
C/2014 Q3	2014 08 31.15708	06 06 40.75	+24 19 58.3	17.2 N	KA77
C/2014 Q3	2014 08 31.16140	06 06 41.06	+24 20 04.9	17.2 N	KA77
C/2014 Q3	2014 09 01.10175	06 07 49.47	+24 44 42.1	16.8 N	B74
C/2014 Q3	2014 09 01.11035	06 07 50.09	+24 44 55.9	16.8 N	B74
C/2014 Q3	2014 09 01.11582	06 07 50.52	+24 45 04.5	16.8 N	B74
C/2014 Q3	2014 09 03.07761	06 10 13.94	+25 37 54.5	16.8 N	C23
C/2014 Q3	2014 09 03.08199	06 10 14.25	+25 38 01.5	16.2 N	C23
C/2014 Q3	2014 09 03.08747	06 10 14.66	+25 38 10.9	16.7 N	C23
C/2014 Q3	2014 09 04.11622	06 11 30.46	+26 06 43.6	15.6 N	KA77
C/2014 Q3	2014 09 04.12628	06 11 31.32	+26 07 00.7	16.3 N	KA77
C/2014 Q3	2014 09 04.14686	06 11 32.83	+26 07 36.2	17.0 N	KK25
C/2014 Q3	2014 09 04.15285	06 11 33.28	+26 07 46.5	16.7 N	KK25
C/2014 Q3	2014 09 04.15960	06 11 33.76	+26 07 57.9	16.8 N	KK25
C/2014 Q3	2014 09 06.13135	06 14 00.46	+27 04 25.3	16.7 N	KK25
C/2014 Q3	2014 09 06.13561	06 14 00.75	+27 04 32.9	17.0 N	KK25
C/2014 Q3	2014 09 06.13987	06 14 01.10	+27 04 40.4	17.0 N	KK25
C/2014 Q3	2014 09 06.34180	06 14 16.29	+27 10 39.3	16.6 N	KW96
C/2014 Q3	2014 09 06.36971	06 14 18.30	+27 11 29.2	16.9 N	KW96



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M.P.C. 89441

## C/2014 Q6 (PANSTARRS)

C/2014 Q6	2014 08 31.34908	21 04 09.262	-34 19 50.17	19.7 T	F51
C/2014 Q6	2014 08 31.35831	21 04 08.780	-34 19 45.69	19.7 T	F51
C/2014 Q6	2014 08 31.36752	21 04 08.332	-34 19 41.15	19.7 T	F51
C/2014 Q6	2014 08 31.37672	21 04 07.873	-34 19 36.99	19.8 T	F51
C/2014 Q6	2014 09 01.29619	21 03 24.12	-34 12 16.1	19.2 T	= 568
C/2014 Q6	2014 09 01.29745	21 03 24.06	-34 12 15.7	19.3 T	= 568
C/2014 Q6	2014 09 01.29870	21 03 23.96	-34 12 15.5	19.2 T	= 568
C/2014 Q6	2014 09 02.06323	21 02 48.08	-34 06 03.2	19.4 T	KW96
C/2014 Q6	2014 09 02.07645	21 02 47.41	-34 05 56.8	19.5 T	KW96
C/2014 Q6	2014 09 02.08892	21 02 46.87	-34 05 51.5	19.4 T	KW96
C/2014 Q6	2014 09 02.10319	21 02 46.18	-34 05 43.6	19.5 T	KW96
C/2014 Q6	2014 09 02.52726	21 02 26.44	-34 02 16.5		1 Q62
C/2014 Q6	2014 09 02.53014	21 02 26.30	-34 02 15.4	19.2 T	1 Q62
C/2014 Q6	2014 09 03.06869	21 02 01.60	-33 57 50.8	19.3 T	KW96
C/2014 Q6	2014 09 03.09115	21 02 00.49	-33 57 39.6	19.1 T	KW96
C/2014 Q6	2014 09 03.10726	21 01 59.80	-33 57 32.7	19.3 T	KW96
C/2014 Q6	2014 09 04.05484	21 01 16.92	-33 49 41.4	19.6 T	KW96
C/2014 Q6	2014 09 04.07743	21 01 15.82	-33 49 31.3	19.4 T	KW96
C/2014 Q6	2014 09 05.30268	21 00 21.44	-33 39 13.5	19.8 N	KW96
C/2014 Q6	2014 09 05.32474	21 00 20.47	-33 39 02.4	19.4 N	KW96

## C/2014 R1 (Borisov)

C/2014 R1	2014 09 05.05347	08 26 55.33	+19 04 58.0	16.0 T	L51
C/2014 R1	2014 09 05.06822	08 26 58.13	+19 04 53.0	15.9 T	L51
C/2014 R1	2014 09 05.08055	08 27 00.52	+19 04 47.8	15.9 T	L51
C/2014 R1	2014 09 06.15901	08 30 24.21	+18 57 22.0	16.0 T	A77
C/2014 R1	2014 09 06.15977	08 30 24.33	+18 57 21.5	16.7 T	A77
C/2014 R1	2014 09 06.16053	08 30 24.51	+18 57 21.7	16.7 T	A77
C/2014 R1	2014 09 06.16128	08 30 24.57	+18 57 20.9	17.0 T	A77
C/2014 R1	2014 09 06.16204	08 30 24.80	+18 57 20.9	16.7 T	A77
C/2014 R1	2014 09 06.16279	08 30 24.95	+18 57 20.4	16.7 T	A77
C/2014 R1	2014 09 06.16355	08 30 25.08	+18 57 20.2	14.5 T	A77
C/2014 R1	2014 09 06.16528	08 30 25.37	+18 57 18.9	15.9 T	K A77
C/2014 R1	2014 09 06.16773	08 30 25.85	+18 57 17.6	16.1 T	K A77
C/2014 R1	2014 09 06.17017	08 30 26.32	+18 57 16.9	16.1 T	K A77
C/2014 R1	2014 09 06.17159	08 30 26.58	+18 57 16.0	16.2 T	K 958
C/2014 R1	2014 09 06.17778	08 30 27.76	+18 57 13.3	16.3 T	K 958
C/2014 R1	2014 09 06.18211	08 30 28.57	+18 57 11.5	16.3 T	K 958
C/2014 R1	2014 09 06.18822	08 30 29.68	+18 57 08.8	16.4 T	K 958
C/2014 R1	2014 09 06.40200	08 31 10.17	+18 55 42.4	16.2 T	KW96
C/2014 R1	2014 09 06.40367	08 31 10.49	+18 55 42.5	16.1 T	KW96
C/2014 R1	2014 09 06.40700	08 31 11.16	+18 55 41.0	16.1 T	KW96
C/2014 R1	2014 09 06.43029	08 31 15.63	+18 55 26.4	16.4 T	K 850
C/2014 R1	2014 09 06.43285	08 31 16.02	+18 55 26.8	16.5 T	K 850
C/2014 R1	2014 09 07.38899	08 34 17.67	+18 48 37.1	15.6 N	KW96
C/2014 R1	2014 09 07.39501	08 34 18.88	+18 48 34.8	15.7 N	KW96
C/2014 R1	2014 09 07.40103	08 34 19.91	+18 48 32.4	15.7 N	KW96
C/2014 R1	2014 09 07.40677	08 34 21.09	+18 48 30.4	15.6 N	KW96
C/2014 R1	2014 09 07.422975	08 34 24.08	+18 48 19.3	16.3 T	K H21
C/2014 R1	2014 09 07.425436	08 34 24.58	+18 48 18.2	16.7 T	K H21
C/2014 R1	2014 09 07.428391	08 34 25.15	+18 48 16.5	16.7 T	K H21
C/2014 R1	2014 09 07.431196	08 34 25.62	+18 48 15.9	16.2 T	K H21

C/2014 R1	2014 09 07.52912	08 34 44.36	+18 47 32.7		5 U69
C/2014 R1	2014 09 07.52995	08 34 44.50	+18 47 32.4	14.8 T	5 U69

## 2P/Encke

2P	2014 07 27.14843	22 13 34.58	-15 08 50.0	19.0 T	J04
2P	2014 07 27.16012	22 13 33.69	-15 08 54.5	18.9 T	J04
2P	2014 07 27.17181	22 13 32.75	-15 08 58.6	19.3 T	J04
2P	2014 07 27.18350	22 13 31.86	-15 09 02.6	19.3 T	J04
2P	2014 07 30.58166	22 09 09.76	-15 29 32.1		1 Q62
2P	2014 07 30.58394	22 09 09.58	-15 29 33.2	18.5 T	1 Q62
2P	2014 08 14.45467	21 48 56.769	-16 56 28.73	19.0 T	F51
2P	2014 08 14.46708	21 48 55.733	-16 56 32.71	19.0 T	F51
2P	2014 08 14.47948	21 48 54.687	-16 56 36.78	19.2 T	F51
2P	2014 08 15.40720	21 47 38.584	-17 01 36.57	19.2 T	F51
2P	2014 08 15.41909	21 47 37.585	-17 01 40.52	19.2 T	F51
2P	2014 08 15.43098	21 47 36.592	-17 01 44.30	19.0 T	F51
2P	2014 08 15.44288	21 47 35.595	-17 01 48.13	19.0 T	F51
2P	2014 08 15.45780	21 47 34.354	-17 01 52.83	18.9 T	F51
2P	2014 08 15.47016	21 47 33.316	-17 01 56.80	18.8 T	F51
2P	2014 08 15.48252	21 47 32.283	-17 02 00.79	18.8 T	F51
2P	2014 08 15.49492	21 47 31.249	-17 02 04.71	18.9 T	F51
2P	2014 08 19.51847	21 42 04.31	-17 22 51.3	18.5 T	KD95
2P	2014 08 19.52132	21 42 04.09	-17 22 52.8		KD95
2P	2014 08 19.53271	21 42 03.14	-17 22 56.3		KD95
2P	2014 08 24.41540	21 35 37.897	-17 45 55.51	19.6 T	F51
2P	2014 08 24.42599	21 35 37.065	-17 45 58.18	19.6 T	F51
2P	2014 08 24.43662	21 35 36.232	-17 46 01.06	19.7 T	F51
2P	2014 08 24.44718	21 35 35.399	-17 46 03.90	19.8 T	F51
2P	2014 08 25.41297	21 34 21.375	-17 50 17.93	19.8 T	F51
2P	2014 08 25.42355	21 34 20.553	-17 50 20.69	20.0 T	F51
2P	2014 08 25.43413	21 34 19.731	-17 50 23.43	19.9 T	F51
2P	2014 08 25.44472	21 34 18.907	-17 50 26.20	19.9 T	F51
2P	2014 09 02.26559	21 24 53.14	-18 20 35.4	19.3 T	703
2P	2014 09 02.27526	21 24 52.41	-18 20 37.1	19.2 T	703
2P	2014 09 02.28491	21 24 51.72	-18 20 39.4	19.5 T	703
2P	2014 09 02.29460	21 24 51.03	-18 20 41.2	19.4 T	703

## 4P/Faye

4P	2014 08 06.77985	06 43 35.23	+17 22 07.4	13.8 T	349
4P	2014 08 06.78230	06 43 35.62	+17 22 06.8		349
4P	2014 08 12.05922	06 57 02.93	+16 52 54.3	15.0 N	K 585
4P	2014 08 12.06245	06 57 03.44	+16 52 53.2	14.7 N	K 585
4P	2014 08 12.06317	06 57 03.44	+16 52 52.1	14.8 N	K 585
4P	2014 08 12.06353	06 57 03.51	+16 52 52.0	14.7 N	K 585
4P	2014 08 12.06389	06 57 03.59	+16 52 51.8	14.8 N	K 585
4P	2014 08 12.06426	06 57 03.64	+16 52 51.8	14.8 N	K 585
4P	2014 08 12.06462	06 57 03.76	+16 52 51.8	15.0 N	K 585
4P	2014 08 12.06498	06 57 03.77	+16 52 51.5	15.0 N	K 585
4P	2014 08 12.06534	06 57 03.81	+16 52 51.5	15.1 N	K 585
4P	2014 08 22.80660	07 23 18.15	+15 42 42.1		K 367
4P	2014 08 22.80781	07 23 18.33	+15 42 41.6		K 367
4P	2014 08 22.80943	07 23 18.56	+15 42 41.0	14.1 T	K 367
4P	2014 08 28.12167	07 35 41.03	+15 03 22.0	16.0 N	C23
4P	2014 08 28.12737	07 35 41.85	+15 03 19.5	15.4 N	C23



4P	2014 08 28.13505	07 35 42.96	+15 03 15.5	15.6 N	C23
4P	2014 08 29.07314	07 37 51.45	+14 56 03.0	15.5 N	L04
4P	2014 08 29.07388	07 37 51.52	+14 56 03.4	15.6 N	L04
4P	2014 08 29.07462	07 37 51.66	+14 56 02.3	15.6 N	L04
4P	2014 08 29.07536	07 37 51.77	+14 56 02.8	15.7 N	L04
4P	2014 08 29.07610	07 37 51.87	+14 56 01.9	15.6 N	L04
4P	2014 08 29.47195	07 38 45.86	+14 52 59.3		32H06
4P	2014 08 29.47357	07 38 46.06	+14 52 58.8		32H06
4P	2014 08 29.47521	07 38 46.32	+14 52 58.0	13.9 T	32H06
4P	2014 09 01.12207	07 44 43.68	+14 32 06.2	14.9 N	C10
4P	2014 09 01.13176	07 44 45.01	+14 32 00.8	15.0 N	C10
4P	2014 09 01.14209	07 44 46.38	+14 31 56.3	14.9 N	C10
4P	2014 09 01.15152	07 44 47.61	+14 31 52.0	14.9 N	C10
4P	2014 09 01.16293	07 44 49.19	+14 31 45.7	15.3 N	C10
4P	2014 09 03.13215	07 49 10.77	+14 15 53.7	14.8 N	C23
4P	2014 09 03.13654	07 49 11.43	+14 15 51.6	14.8 N	C23
4P	2014 09 03.13874	07 49 11.62	+14 15 51.1	15.1 N	K C23
4P	2014 09 05.13485	07 53 33.47	+13 59 26.4	15.4 N	C10
4P	2014 09 05.14208	07 53 34.33	+13 59 22.5	15.5 N	C10
4P	2014 09 05.14858	07 53 35.26	+13 59 20.1	15.3 N	C10

**11P/Tempel-Swift-LINEAR**

11P	2014 09 01.08336	05 44 08.46	+26 22 39.6	20.7 N	K C10
11P	2014 09 01.09760	05 44 11.01	+26 22 34.3	20.5 N	K C10
11P	2014 09 01.11191	05 44 13.53	+26 22 26.9	20.8 N	K C10
11P	2014 09 03.05971	05 50 01.84	+26 08 09.3	19.7 N	K C10
11P	2014 09 03.07258	05 50 04.29	+26 08 02.2	19.8 N	K C10
11P	2014 09 03.08594	05 50 06.51	+26 07 55.8	19.8 N	K C10

**16P/Brooks**

16P	2014 07 29.82687	05 22 08.27	+20 05 40.9	15.7 T	15Q62
16P	2014 07 29.82740	05 22 08.38	+20 05 41.7	16.4 N	15Q62
16P	2014 08 08.03014	05 48 09.12	+20 11 56.9	16.9 N	K 585
16P	2014 08 08.03084	05 48 09.22	+20 11 56.7	17.1 N	K 585
16P	2014 08 08.03156	05 48 09.33	+20 11 56.4	17.2 N	K 585
16P	2014 08 08.03227	05 48 09.45	+20 11 56.4	16.9 N	K 585
16P	2014 08 08.03299	05 48 09.55	+20 11 55.9	16.8 N	K 585
16P	2014 08 08.03370	05 48 09.65	+20 11 56.4	16.8 N	K 585
16P	2014 08 08.03441	05 48 09.81	+20 11 56.2	16.8 N	K 585
16P	2014 08 08.03512	05 48 09.93	+20 11 56.6	16.8 N	K 585
16P	2014 08 08.03586	05 48 10.06	+20 11 56.7	17.2 N	K 585
16P	2014 08 08.03660	05 48 10.14	+20 11 55.8	16.8 N	K 585
16P	2014 08 08.03734	05 48 10.31	+20 11 56.4	17.1 N	K 585
16P	2014 08 08.03804	05 48 10.42	+20 11 56.2	17.0 N	K 585
16P	2014 08 08.09516	05 48 19.83	+20 11 55.9	17.5 T	K 215
16P	2014 08 08.09644	05 48 20.11	+20 11 56.0	17.5 T	K 215
16P	2014 08 08.09772	05 48 20.31	+20 11 56.3	17.3 T	K 215
16P	2014 08 13.09901	06 01 56.66	+20 08 47.5	17.0 N	K C23
16P	2014 08 13.10334	06 01 57.41	+20 08 46.8	16.6 N	K C23
16P	2014 08 27.10597	06 37 51.22	+19 39 03.2	17.3 N	K C23
16P	2014 08 27.11146	06 37 52.16	+19 39 03.0	16.7 N	K C23
16P	2014 09 06.11957	07 01 19.99	+19 02 33.8	18.5 N	KA77
16P	2014 09 06.12392	07 01 20.56	+19 02 32.7	18.5 N	KA77
16P	2014 09 06.12826	07 01 21.16	+19 02 31.8	18.2 N	KA77

**17P/Holmes**

17P	2014 06 07.44506	01 59 21.48	+24 24 38.3		32H06
17P	2014 06 07.44642	01 59 21.66	+24 24 39.5		32H06
17P	2014 06 07.44778	01 59 21.82	+24 24 40.8	15.0 T	32H06
17P	2014 08 08.09856	03 59 47.80	+38 15 14.0	15.9 N	A77
17P	2014 08 08.09901	03 59 47.84	+38 15 13.7	16.3 N	K B51
17P	2014 08 08.10477	03 59 48.44	+38 15 17.1	16.3 N	K B51
17P	2014 08 08.10742	03 59 48.75	+38 15 19.0	15.7 N	A77
17P	2014 08 08.10893	03 59 48.93	+38 15 19.9	16.4 N	K B51
17P	2014 08 08.11126	03 59 49.18	+38 15 21.6	16.2 N	KK25
17P	2014 08 08.11549	03 59 49.62	+38 15 24.5	16.2 N	KK25
17P	2014 08 08.11874	03 59 50.02	+38 15 26.6	16.0 N	A77
17P	2014 08 08.11972	03 59 50.06	+38 15 27.1	16.2 N	KK25
17P	2014 08 08.12459	03 59 50.54	+38 15 30.8	15.6 N	A77
17P	2014 08 08.14536	03 59 52.81	+38 15 44.3	15.7 N	I99
17P	2014 08 08.15041	03 59 53.35	+38 15 47.7	15.6 N	I99
17P	2014 08 08.15243	03 59 53.57	+38 15 49.0	15.7 N	I99
17P	2014 08 09.05639	04 01 29.67	+38 25 37.8	17.6 N	K C47
17P	2014 08 09.05823	04 01 29.89	+38 25 39.2	17.7 N	K C47
17P	2014 08 09.06008	04 01 30.08	+38 25 40.4	17.5 N	K C47
17P	2014 08 09.06229	04 01 30.32	+38 25 42.0	17.5 N	K C47
17P	2014 08 09.06413	04 01 30.50	+38 25 43.1	17.7 N	K C47
17P	2014 08 09.06634	04 01 30.73	+38 25 44.4	17.7 N	K C47
17P	2014 08 12.16599	04 06 56.06	+38 59 00.8	17.0 N	K Z81
17P	2014 08 12.19840	04 06 59.43	+38 59 21.6	16.8 N	K Z81
17P	2014 08 12.35656	04 07 16.06	+39 01 05.8	16.6 N	KW96
17P	2014 08 12.38572	04 07 18.98	+39 01 24.4	16.7 N	KW96
17P	2014 08 13.08473	04 08 31.22	+39 08 44.0	16.7 N	C23
17P	2014 08 13.09050	04 08 31.76	+39 08 46.5	16.3 N	C23
17P	2014 08 13.09483	04 08 32.28	+39 08 50.0	15.9 N	C23
17P	2014 08 14.41884	04 10 48.41	+39 22 45.5	16.2 N	KH47
17P	2014 08 14.43006	04 10 49.43	+39 22 53.3	15.6 N	KH47
17P	2014 08 17.02913	04 15 12.81	+39 49 50.5	18.0 N	K C47
17P	2014 08 17.03042	04 15 12.89	+39 49 50.6	16.9 N	K C47
17P	2014 08 17.03208	04 15 13.13	+39 49 52.1	17.6 N	K C47
17P	2014 08 17.03392	04 15 13.32	+39 49 52.8	17.9 N	K C47
17P	2014 08 17.03576	04 15 13.47	+39 49 53.7	16.9 N	K C47
17P	2014 08 17.03761	04 15 13.64	+39 49 55.4	18.1 N	K C47
17P	2014 08 17.09342	04 15 19.18	+39 50 30.4	16.7 T	K 104
17P	2014 08 17.10327	04 15 19.90	+39 50 36.3	15.6 T	K 104
17P	2014 08 18.02222	04 16 51.93	+40 00 01.3	18.4 N	K C47
17P	2014 08 18.02252	04 16 51.91	+40 00 01.3	16.8 N	KA77
17P	2014 08 18.02406	04 16 52.05	+40 00 02.1	18.4 N	K C47
17P	2014 08 18.02664	04 16 52.33	+40 00 04.4	18.1 N	K C47
17P	2014 08 18.02688	04 16 52.38	+40 00 04.3	16.9 N	KA77
17P	2014 08 18.02923	04 16 52.63	+40 00 05.9	17.0 N	K C47
17P	2014 08 18.03139	04 16 52.76	+40 00 06.9	16.8 N	KA77
17P	2014 08 18.03181	04 16 52.83	+40 00 07.4	16.9 N	K C47
17P	2014 08 18.03476	04 16 53.18	+40 00 09.1	17.9 N	K C47
17P	2014 08 18.42564	04 17 31.91	+40 04 09.6	16.4 N	G68
17P	2014 08 18.43953	04 17 33.29	+40 04 18.1	16.4 N	G68
17P	2014 08 18.44780	04 17 34.10	+40 04 23.5	16.4 N	G68
17P	2014 08 18.45341	04 17 34.69	+40 04 27.3	16.4 N	G68



2014 SEPT. 9

M.P.C. 89443

17P	2014 08 19.87307	04 19 54.40	+40 18 50.0	16.9 N	585	17P	2014 08 26.04683	04 29 40.06	+41 20 10.8	16.7 N	I81
17P	2014 08 19.87447	04 19 54.49	+40 18 50.0	16.8 N	585	17P	2014 08 27.00960	04 31 08.00	+41 29 33.7		470
17P	2014 08 19.87587	04 19 54.70	+40 18 52.1	16.8 N	585	17P	2014 08 27.01174	04 31 08.19	+41 29 34.8		470
17P	2014 08 19.87728	04 19 54.77	+40 18 52.7	16.8 N	585	17P	2014 08 27.01394	04 31 08.40	+41 29 36.1	17.4 N	470
17P	2014 08 19.88008	04 19 54.96	+40 18 53.9	16.9 N	585	17P	2014 08 27.05557	04 31 12.08	+41 29 59.9	16.9 N	C23
17P	2014 08 19.88430	04 19 55.36	+40 18 56.4	16.6 N	585	17P	2014 08 27.05995	04 31 12.45	+41 30 02.7	16.6 N	C23
17P	2014 08 19.88710	04 19 55.73	+40 18 58.4	16.5 N	585	17P	2014 08 27.06434	04 31 12.84	+41 30 05.5	16.8 N	C23
17P	2014 08 19.88851	04 19 55.91	+40 19 00.1	16.6 N	585	17P	2014 08 27.98463	04 32 35.91	+41 38 58.7	18.0 N	K C47
17P	2014 08 20.00365	04 20 07.08	+40 20 09.7	16.3 N	C23	17P	2014 08 27.98684	04 32 36.09	+41 39 00.4	18.2 N	K C47
17P	2014 08 20.00798	04 20 07.52	+40 20 12.3	16.5 N	C23	17P	2014 08 27.98906	04 32 36.36	+41 39 01.7	18.4 N	K C47
17P	2014 08 20.01231	04 20 07.95	+40 20 15.1	16.7 N	C23	17P	2014 08 27.99127	04 32 36.58	+41 39 03.6	18.3 N	K C47
17P	2014 08 20.12945	04 20 19.41	+40 21 28.1	16.9 N	K Z81	17P	2014 08 27.99385	04 32 36.84	+41 39 04.5	18.3 N	K C47
17P	2014 08 20.16099	04 20 22.44	+40 21 47.3	17.0 N	K Z81	17P	2014 08 27.99754	04 32 37.09	+41 39 06.7	18.1 N	K C47
17P	2014 08 20.19364	04 20 25.57	+40 22 07.5	16.6 N	K Z81	17P	2014 08 28.09392	04 32 45.69	+41 40 03.6	16.9 N	KA77
17P	2014 08 21.07337	04 21 51.03	+40 30 57.5	16.4 N	C10	17P	2014 08 28.09761	04 32 45.98	+41 40 05.8	16.9 N	KA77
17P	2014 08 21.08699	04 21 52.36	+40 31 06.1	16.5 N	C10	17P	2014 08 28.10078	04 32 46.28	+41 40 07.5	17.0 N	KA77
17P	2014 08 21.11595	04 21 55.17	+40 31 23.5	16.5 N	C10	17P	2014 08 28.91925	04 33 59.09	+41 47 57.9	16.5 T	152
17P	2014 08 21.13440	04 21 56.87	+40 31 36.0	15.8 N	A77	17P	2014 08 28.92235	04 33 59.47	+41 48 01.3	16.7 T	152
17P	2014 08 21.14060	04 21 57.52	+40 31 39.1	16.6 N	K Z81	17P	2014 08 28.93311	04 34 00.42	+41 48 06.9	16.6 T	152
17P	2014 08 21.14112	04 21 57.44	+40 31 38.8	15.9 N	A77	17P	2014 08 28.98877	04 34 05.44	+41 48 38.7	16.6 N	I81
17P	2014 08 21.14445	04 21 57.73	+40 31 41.9	15.9 N	A77	17P	2014 08 28.99602	04 34 06.10	+41 48 43.0	17.1 N	I81
17P	2014 08 21.16769	04 22 00.13	+40 31 55.6	17.1 N	K Z81	17P	2014 08 28.99649	04 34 06.11	+41 48 43.2	17.2 N	K I81
17P	2014 08 21.19199	04 22 02.46	+40 32 10.4	17.1 N	K Z81	17P	2014 08 29.00419	04 34 06.83	+41 48 47.9	17.0 N	I81
17P	2014 08 21.41071	04 22 23.72	+40 34 20.8	16.5 N	G68	17P	2014 08 30.09237	04 35 42.43	+41 59 13.9	16.0 T	G36
17P	2014 08 21.43825	04 22 26.32	+40 34 37.9	16.5 N	G68	17P	2014 08 30.14321	04 35 46.80	+41 59 43.5	15.8 T	G36
17P	2014 08 21.45214	04 22 27.65	+40 34 46.1	16.5 N	G68	17P	2014 08 30.20531	04 35 52.14	+42 00 19.6	16.1 T	G36
17P	2014 08 22.08221	04 23 28.15	+40 41 03.4	17.0 N	KA77	17P	2014 08 30.99921	04 37 01.22	+42 07 51.6	18.2 N	C73
17P	2014 08 22.08706	04 23 28.63	+40 41 07.0	16.9 N	KA77	17P	2014 08 31.00280	04 37 01.48	+42 07 53.3	18.1 N	C73
17P	2014 08 22.09242	04 23 29.14	+40 41 10.1	16.9 N	KA77	17P	2014 08 31.00638	04 37 01.85	+42 07 55.7	18.0 N	C73
17P	2014 08 22.99409	04 24 55.08	+40 50 08.0	16.5 N	A98	17P	2014 08 31.02427	04 37 03.37	+42 08 05.4	17.9 N	C73
17P	2014 08 22.99538	04 24 55.13	+40 50 09.3	16.5 N	A98	17P	2014 08 31.02785	04 37 03.62	+42 08 07.7	18.1 N	C73
17P	2014 08 23.00058	04 24 55.62	+40 50 12.2	16.5 N	A98	17P	2014 08 31.03142	04 37 03.95	+42 08 09.8	18.0 N	C73
17P	2014 08 23.00123	04 24 55.71	+40 50 12.0	16.8 N	A98	17P	2014 08 31.03500	04 37 04.28	+42 08 12.0	18.0 N	C73
17P	2014 08 23.00831	04 24 56.46	+40 50 16.7	16.8 N	A98	17P	2014 08 31.03858	04 37 04.53	+42 08 14.0	18.1 N	C73
17P	2014 08 23.00896	04 24 56.41	+40 50 17.1	16.8 N	A98	17P	2014 08 31.04215	04 37 04.88	+42 08 16.1	18.0 N	C73
17P	2014 08 23.01154	04 24 56.75	+40 50 18.6	16.3 N	A98	17P	2014 08 31.04573	04 37 05.17	+42 08 18.1	18.0 N	C73
17P	2014 08 23.42180	04 25 35.53	+40 54 24.6	16.4 N	KH47	17P	2014 08 31.04932	04 37 05.50	+42 08 20.2	18.0 N	C73
17P	2014 08 23.43284	04 25 36.53	+40 54 31.0	16.4 N	KH47	17P	2014 08 31.05289	04 37 05.83	+42 08 22.3	18.0 N	C73
17P	2014 08 23.44311	04 25 37.51	+40 54 37.4	16.5 N	KH47	17P	2014 08 31.05647	04 37 06.11	+42 08 24.6	18.1 N	C73
17P	2014 08 25.01769	04 28 04.96	+41 10 06.4	18.3 N	C47	17P	2014 08 31.06005	04 37 06.41	+42 08 26.5	18.1 N	C73
17P	2014 08 25.01916	04 28 05.19	+41 10 06.6	17.9 N	C47	17P	2014 08 31.06362	04 37 06.68	+42 08 28.6	18.1 N	C73
17P	2014 08 25.02137	04 28 05.45	+41 10 09.0	17.8 N	C47	17P	2014 08 31.06720	04 37 06.97	+42 08 30.5	18.1 N	C73
17P	2014 08 25.02359	04 28 05.57	+41 10 10.1	17.6 N	C47	17P	2014 08 31.61755	04 37 54.42	+42 13 42.2	15.6 T	D95
17P	2014 08 25.02580	04 28 05.76	+41 10 12.0	17.9 N	C47	17P	2014 08 31.61863	04 37 54.48	+42 13 43.3		D95
17P	2014 08 25.02986	04 28 06.24	+41 10 13.6	18.0 N	C47	17P	2014 08 31.62294	04 37 54.84	+42 13 45.3		D95
17P	2014 08 25.14116	04 28 16.41	+41 11 20.2	17.0 N	KA77	17P	2014 09 02.12814	04 40 01.98	+42 27 57.5	17.2 N	KB51
17P	2014 08 25.14484	04 28 16.76	+41 11 22.8	16.9 N	KA77	17P	2014 09 02.13341	04 40 02.37	+42 28 00.2	17.0 N	KB51
17P	2014 08 25.14847	04 28 17.08	+41 11 24.4	16.9 N	KA77	17P	2014 09 03.04901	04 41 18.58	+42 36 34.2	16.9 N	K C23
17P	2014 08 25.16259	04 28 18.44	+41 11 33.7	17.0 N	K Z81	17P	2014 09 03.05339	04 41 18.96	+42 36 37.4	17.2 N	K C23
17P	2014 08 25.18487	04 28 20.49	+41 11 46.9	17.1 N	K Z81	17P	2014 09 03.10667	04 41 23.41	+42 37 07.5	17.0 N	KK25
17P	2014 08 25.20700	04 28 22.46	+41 12 00.3		K Z81	17P	2014 09 03.11288	04 41 23.89	+42 37 10.8	17.0 N	KK25
17P	2014 08 26.03959	04 29 39.44	+41 20 06.4	17.2 N	I81	17P	2014 09 03.11911	04 41 24.39	+42 37 14.5	17.0 N	KK25
17P	2014 08 26.04397	04 29 39.79	+41 20 09.1	16.7 N	I81	17P	2014 09 03.36867	04 41 44.85	+42 39 37.6	17.9 N	W96



17P	2014 09 03.39757	04 41 47.19	+42 39 54.2	17.6 N	W96
17P	2014 09 05.04294	04 44 00.71	+42 55 06.5	16.9 N	C10
17P	2014 09 05.05788	04 44 01.90	+42 55 15.0	16.6 N	C10
17P	2014 09 05.07437	04 44 03.19	+42 55 24.2	16.8 N	C10
17P	2014 09 05.14068	04 44 08.56	+42 56 02.0	16.6 N	I99
17P	2014 09 05.14593	04 44 08.91	+42 56 04.1	16.5 N	I99
17P	2014 09 05.14725	04 44 09.01	+42 56 05.1	16.5 N	I99
17P	2014 09 06.01438	04 45 17.81	+43 04 03.9	17.9 N	KC47
17P	2014 09 06.01696	04 45 18.03	+43 04 05.6	18.3 N	KC47
17P	2014 09 07.02229	04 46 36.34	+43 13 19.0	18.3 N	KC47
17P	2014 09 07.02557	04 46 36.68	+43 13 20.7	17.5 N	KC47
17P	2014 09 07.02856	04 46 36.95	+43 13 22.5	17.9 N	KC47
17P	2014 09 07.03151	04 46 37.21	+43 13 24.4	18.3 N	KC47
17P	2014 09 07.03409	04 46 37.33	+43 13 25.8	18.2 N	KC47
17P	2014 09 07.03631	04 46 37.51	+43 13 27.2	17.6 N	KC47

**19P/Borrelly**

19P	2014 07 30.65455	21 18 21.13	-52 23 08.7		1 Q62
19P	2014 07 30.65847	21 18 20.82	-52 23 10.7		1 Q62
19P	2014 07 30.66238	21 18 20.53	-52 23 12.9	19.7 T	1 Q62

**29P/Schwassmann-Wachmann**

29P	2014 04 14.71647	15 53 56.82	-30 59 05.8	15.9 T	349
29P	2014 04 14.72818	15 53 56.59	-30 59 05.9		349
29P	2014 06 05.96939	15 29 49.90	-29 54 19.3	16.7 T	Y00
29P	2014 06 05.98185	15 29 49.38	-29 54 16.7	16.5 T	Y00
29P	2014 06 05.99116	15 29 48.90	-29 54 16.5	16.7 T	Y00
29P	2014 07 26.41755	15 18 54.13	-28 04 11.5	14.2 T	15Q62
29P	2014 07 26.41918	15 18 54.03	-28 04 10.4	16.3 N	15Q62
29P	2014 08 03.37993	15 19 45.44	-27 53 09.1	16.3 N	30D90
29P	2014 08 03.38455	15 19 45.47	-27 53 08.7	16.3 N	30D90
29P	2014 08 03.38917	15 19 45.50	-27 53 08.5	16.3 N	30D90
29P	2014 08 05.51493	15 20 06.48	-27 50 39.0	17.1 N	5 E10
29P	2014 08 05.51655	15 20 06.48	-27 50 38.7	17.0 N	5 E10
29P	2014 08 06.35759	15 20 15.74	-27 49 42.7	17.1 N	5 E10
29P	2014 08 06.41849	15 20 16.38	-27 49 38.6	17.1 N	5 E10
29P	2014 08 06.41908	15 20 16.39	-27 49 38.6	17.2 N	5 E10
29P	2014 08 08.10066	15 20 36.15	-27 47 52.5	17.3 N	KW96
29P	2014 08 08.13718	15 20 36.59	-27 47 50.3	17.3 N	KW96
29P	2014 08 10.06853	15 21 01.64	-27 45 57.4	17.0 N	KW96
29P	2014 08 10.10362	15 21 02.11	-27 45 55.0	17.0 N	KW96
29P	2014 08 10.14516	15 21 02.65	-27 45 51.9	17.1 N	KW96
29P	2014 08 10.98047	15 21 14.38	-27 45 07.3	17.1 N	KW96
29P	2014 08 11.03082	15 21 15.08	-27 45 04.4	16.9 N	KW96
29P	2014 08 11.97944	15 21 28.88	-27 44 14.8	17.0 N	KW96
29P	2014 08 12.03066	15 21 29.62	-27 44 12.1	17.0 N	KW96
29P	2014 08 13.02912	15 21 44.79	-27 43 22.4	17.1 N	KW96
29P	2014 08 13.06155	15 21 45.31	-27 43 20.7	17.0 N	KW96
29P	2014 08 13.38169	15 21 50.33	-27 43 05.2	16.6 N	30D90
29P	2014 08 13.38477	15 21 50.37	-27 43 05.3	16.6 N	30D90
29P	2014 08 13.38785	15 21 50.43	-27 43 05.1	16.6 N	30D90
29P	2014 08 13.98094	15 21 59.89	-27 42 37.3	17.2 N	KW96
29P	2014 08 14.03170	15 22 00.70	-27 42 34.9	17.2 N	KW96
29P	2014 08 14.98390	15 22 16.36	-27 41 52.2	17.4 N	KW96

29P	2014 08 15.01638	15 22 16.87	-27 41 50.9	17.6 N	KW96
29P	2014 08 15.98081	15 22 33.36	-27 41 10.1	17.1 N	KW96
29P	2014 08 16.02972	15 22 34.19	-27 41 07.8	17.1 N	KW96
29P	2014 08 16.04372	15 22 34.47	-27 41 07.2	18 T	C51
Geocentric position (km)		- 2741.4213	- 5271.8835	- 3478.9918	
29P	2014 08 16.10956	15 22 35.61	-27 41 03.8		C51
Geocentric position (km)		- 2747.4762	- 5287.4415	- 3450.4166	
29P	2014 08 16.30693	15 22 39.09	-27 40 56.5		C51
Geocentric position (km)		- 2735.2844	- 5303.0053	- 3436.0985	
29P	2014 08 16.37264	15 22 40.21	-27 40 52.8		C51
Geocentric position (km)		- 2711.1470	- 5287.4197	- 3479.0478	
29P	2014 08 16.50430	15 22 42.53	-27 40 48.5		C51
Geocentric position (km)		- 2723.0352	- 5318.5533	- 3421.6858	
29P	2014 08 16.98168	15 22 51.07	-27 40 30.4	17.0 N	KW96
29P	2014 08 17.00286	15 22 51.44	-27 40 29.2	17.0 N	KW96
29P	2014 08 17.40670	15 22 58.75	-27 40 13.9	16.4 N	30D90
29P	2014 08 17.41131	15 22 58.83	-27 40 13.8	16.4 N	30D90
29P	2014 08 17.41439	15 22 58.89	-27 40 13.8	16.4 N	30D90
29P	2014 08 17.99316	15 23 09.58	-27 39 52.7	17.1 N	W96
29P	2014 08 18.06678	15 23 10.88	-27 39 49.9	17.2 N	W96
29P	2014 08 18.12020	15 23 11.89	-27 39 47.6	17.0 N	W96
29P	2014 08 19.02915	15 23 29.19	-27 39 16.0	17.1 N	W96
29P	2014 08 19.05391	15 23 29.65	-27 39 15.6	17.0 N	W96
29P	2014 08 19.51168	15 23 38.53	-27 39 00.5	16.5 N	30D90
29P	2014 08 19.51628	15 23 38.63	-27 39 00.3	16.5 N	30D90
29P	2014 08 19.51936	15 23 38.68	-27 39 00.0	16.5 N	30D90
29P	2014 08 19.98609	15 23 47.94	-27 38 45.1	17.2 N	W96
29P	2014 08 20.03006	15 23 48.77	-27 38 44.5	17.1 N	W96
29P	2014 08 21.02509	15 24 08.85	-27 38 14.9	17.3 N	W96
29P	2014 08 21.04053	15 24 09.16	-27 38 14.2	17.2 N	W96
29P	2014 08 21.98130	15 24 28.76	-27 37 48.6	17.2 N	W96
29P	2014 08 22.01170	15 24 29.37	-27 37 47.8	17.2 N	W96
29P	2014 08 23.03090	15 24 51.17	-27 37 22.5	17.2 N	W96
29P	2014 08 23.06998	15 24 52.00	-27 37 21.2	17.2 N	W96
29P	2014 08 23.98094	15 25 12.05	-27 37 01.1	17.3 N	KW96
29P	2014 08 24.02793	15 25 13.08	-27 36 59.5	17.3 N	KW96
29P	2014 08 24.45671	15 25 22.69	-27 36 51.0	16.7 N	30D90
29P	2014 08 24.46286	15 25 22.82	-27 36 50.7	16.7 N	30D90
29P	2014 08 24.46902	15 25 22.96	-27 36 50.5	16.7 N	30D90
29P	2014 08 24.97336	15 25 34.50	-27 36 40.9	17.3 N	W96
29P	2014 08 24.99888	15 25 35.02	-27 36 40.5	17.3 N	W96
29P	2014 08 25.97890	15 25 57.71	-27 36 23.5	17.2 N	W96
29P	2014 08 26.03220	15 25 58.95	-27 36 22.6	17.3 N	W96
29P	2014 08 26.38698	15 26 07.33	-27 36 16.8	16.7 N	30D90
29P	2014 08 26.39315	15 26 07.47	-27 36 16.7	16.7 N	30D90
29P	2014 08 26.39929	15 26 07.60	-27 36 16.5	16.7 N	30D90
29P	2014 08 26.98765	15 26 21.63	-27 36 08.2	17.3 N	W96
29P	2014 08 27.02128	15 26 22.44	-27 36 07.8	17.4 N	W96
29P	2014 08 27.98674	15 26 45.96	-27 35 55.7	17.4 N	KW96
29P	2014 08 28.01052	15 26 46.49	-27 35 55.1	17.5 N	KW96
29P	2014 08 29.00228	15 27 11.19	-27 35 44.9	16.8 N	W96
29P	2014 08 29.02076	15 27 11.64	-27 35 44.7	16.8 N	W96
29P	2014 08 29.98814	15 27 36.27	-27 35 37.2	16.7 N	W96



29P	2014 08 30.04081	15 27 37.60	-27 35 36.5	16.7 N	W96
29P	2014 08 30.07190	15 27 38.39	-27 35 36.3	16.7 N	W96
29P	2014 08 30.38894	15 27 46.64	-27 35 34.3	16.2 N	30D90
29P	2014 08 30.39509	15 27 46.79	-27 35 34.1	16.2 N	30D90
29P	2014 08 30.40124	15 27 46.96	-27 35 34.1	16.2 N	30D90
29P	2014 08 31.98800	15 28 28.83	-27 35 28.1	16.8 N	W96
29P	2014 09 01.02594	15 28 29.80	-27 35 27.3	17.0 N	W96
29P	2014 09 02.97568	15 29 23.21	-27 35 27.9	17.0 N	W96
29P	2014 09 03.02721	15 29 24.65	-27 35 27.8	17.4 N	W96
29P	2014 09 03.44627	15 29 36.52	-27 35 27.3	17.2 N	Q68
29P	2014 09 03.48013	15 29 37.38	-27 35 28.2	17.4 N	Q68
29P	2014 09 03.99796	15 29 51.97	-27 35 31.3	17.1 N	W96
29P	2014 09 04.01603	15 29 52.51	-27 35 31.2	17.1 N	W96
29P	2014 09 04.03207	15 29 52.98	-27 35 31.6	17.2 N	W96
29P	2014 09 05.98993	15 30 49.73	-27 35 44.4	17.1 N	W96
29P	2014 09 06.01527	15 30 50.42	-27 35 44.8	17.2 N	W96
29P	2014 09 06.04289	15 30 51.25	-27 35 45.1	17.1 N	W96
29P	2014 09 06.98392	15 31 19.30	-27 35 54.6	17.5 N	W96
29P	2014 09 07.00958	15 31 20.07	-27 35 55.8	17.7 N	W96
29P	2014 09 07.03727	15 31 20.91	-27 35 55.2	17.5 N	W96

**32P/Comas Solá**

32P	2014 08 02.75647	06 22 58.51	+26 01 57.1		349
32P	2014 08 02.76403	06 22 59.68	+26 01 58.4	15.5 T	349
32P	2014 08 12.03382	06 46 31.38	+26 11 50.5	15.6 N	K 585
32P	2014 08 12.03453	06 46 31.49	+26 11 50.9	15.7 N	K 585
32P	2014 08 12.03524	06 46 31.63	+26 11 50.9	15.9 N	K 585
32P	2014 08 12.03595	06 46 31.73	+26 11 51.3	15.8 N	K 585
32P	2014 08 12.03666	06 46 31.82	+26 11 51.1	15.9 N	K 585
32P	2014 08 12.03736	06 46 31.85	+26 11 50.4	15.7 N	K 585
32P	2014 08 12.03807	06 46 31.98	+26 11 51.0	15.8 N	K 585
32P	2014 08 12.03878	06 46 32.10	+26 11 51.4	15.9 N	K 585
32P	2014 08 12.03949	06 46 32.21	+26 11 51.3	16.1 N	K 585
32P	2014 08 12.04020	06 46 32.32	+26 11 51.1	16.0 N	K 585
32P	2014 08 12.04090	06 46 32.45	+26 11 51.1	16.1 N	585
32P	2014 08 16.12578	06 56 58.33	+26 12 29.1	15.0 N	KA77
32P	2014 08 16.12728	06 56 58.66	+26 12 29.2	16.0 N	KA77
32P	2014 08 16.13180	06 56 59.31	+26 12 30.0	15.4 N	KA77
32P	2014 08 16.13405	06 56 59.61	+26 12 29.5	16.0 N	KA77
32P	2014 08 16.13631	06 56 59.97	+26 12 29.6	15.1 N	KA77
32P	2014 08 16.13706	06 57 00.09	+26 12 29.2	15.0 N	KA77
32P	2014 08 18.76678	07 03 43.95	+26 11 42.1		349
32P	2014 08 18.77407	07 03 45.08	+26 11 42.0	14.9 T	349
32P	2014 08 24.11838	07 17 26.47	+26 07 12.0	15.4 N	C23
32P	2014 08 24.12057	07 17 26.90	+26 07 11.8	16.0 N	C23
32P	2014 08 24.12386	07 17 27.37	+26 07 10.3	15.8 N	C23
32P	2014 08 25.13013	07 20 01.99	+26 05 55.3	15.1 N	KA77
32P	2014 08 25.13425	07 20 02.61	+26 05 55.1	15.7 N	KA77
32P	2014 08 27.11399	07 25 06.97	+26 03 01.8	16.2 N	C23
32P	2014 08 27.11728	07 25 07.34	+26 03 00.5	16.2 N	C23
32P	2014 08 27.12057	07 25 07.91	+26 03 00.7	15.8 N	C23
32P	2014 08 29.07851	07 30 08.65	+25 59 39.8	15.7 N	K L04
32P	2014 08 29.08073	07 30 09.00	+25 59 39.8	15.6 N	K L04

32P	2014 08 29.40113	07 30 58.29	+25 59 08.1	16.2 N	KW96
32P	2014 08 29.41393	07 31 00.15	+25 59 06.2	16.1 N	KW96
32P	2014 08 29.46561	07 31 08.03	+25 58 57.7		32H06
32P	2014 08 29.46720	07 31 08.30	+25 58 57.4		32H06
32P	2014 08 29.46885	07 31 08.54	+25 58 57.5	14.7 T	32H06
32P	2014 08 31.12864	07 35 23.21	+25 55 37.5	16.2 N	KA77
32P	2014 08 31.13260	07 35 23.76	+25 55 36.7	16.1 N	KA77
32P	2014 08 31.13617	07 35 24.31	+25 55 36.4	16.2 N	KA77
32P	2014 09 03.12109	07 43 01.69	+25 48 46.6	15.4 N	C23
32P	2014 09 03.12622	07 43 02.41	+25 48 45.3	15.3 N	C23
32P	2014 09 03.12842	07 43 02.67	+25 48 44.9	15.6 N	C23
32P	2014 09 04.16232	07 45 40.72	+25 46 08.8	15.6 N	KA77
32P	2014 09 04.16440	07 45 40.99	+25 46 08.2	15.8 N	KA77
32P	2014 09 04.16648	07 45 41.34	+25 46 09.0	15.9 N	KA77
32P	2014 09 05.07779	07 48 00.62	+25 43 41.3	16.1 N	C10
32P	2014 09 05.09190	07 48 02.91	+25 43 39.1	16.0 N	C10
32P	2014 09 05.13134	07 48 08.84	+25 43 32.9	15.9 N	C10
32P	2014 09 05.16919	07 48 14.67	+25 43 27.4	15.7 N	I99
32P	2014 09 05.16995	07 48 14.81	+25 43 27.7	15.5 N	I99
32P	2014 09 05.17295	07 48 15.25	+25 43 27.0	15.5 N	I99
32P	2014 09 06.15134	07 50 44.63	+25 40 43.0	16.0 N	KK25
32P	2014 09 06.15474	07 50 45.17	+25 40 42.5	16.0 N	KK25
32P	2014 09 06.16293	07 50 46.41	+25 40 41.1	15.9 N	KK25

**44P/Reinmuth**

44P	2014 08 14.46525	16 41 59.94	-23 57 47.6	17.8 N	30D90
44P	2014 08 14.46902	16 42 00.02	-23 57 47.3	17.8 N	30D90
44P	2014 08 14.47468	16 42 00.16	-23 57 46.8	17.8 N	30D90

**67P/Churyumov-Gerasimenko**

67P	2014 07 28.22838	19 01 50.26	-30 56 09.6		11 309
67P	2014 07 28.23031	19 01 50.15	-30 56 09.9		11 309
67P	2014 07 28.23126	19 01 50.09	-30 56 09.9		11 309
67P	2014 07 28.23222	19 01 50.03	-30 56 09.9		11 309
67P	2014 07 28.23318	19 01 49.97	-30 56 09.9		11 309
67P	2014 07 28.23414	19 01 49.92	-30 56 10.0		11 309
67P	2014 07 28.23509	19 01 49.86	-30 56 10.1		11 309
67P	2014 07 28.23604	19 01 49.80	-30 56 10.2		11 309
67P	2014 07 28.23700	19 01 49.75	-30 56 10.2		11 309
67P	2014 07 29.19489	19 00 55.46	-30 57 11.0		11 309
67P	2014 07 29.19680	19 00 55.35	-30 57 11.0		11 309
67P	2014 07 29.19775	19 00 55.29	-30 57 11.2		11 309
67P	2014 07 29.19870	19 00 55.23	-30 57 11.2		11 309
67P	2014 07 29.19966	19 00 55.18	-30 57 11.2		11 309
67P	2014 07 29.20061	19 00 55.12	-30 57 11.2		11 309
67P	2014 07 29.20156	19 00 55.07	-30 57 11.3		11 309
67P	2014 07 29.20251	19 00 55.02	-30 57 11.4		11 309
67P	2014 07 29.20346	19 00 54.96	-30 57 11.4		11 309
67P	2014 07 31.17542	18 59 04.95	-30 59 00.7		11 309
67P	2014 07 31.17641	18 59 04.90	-30 59 00.7		11 309
67P	2014 07 31.17736	18 59 04.85	-30 59 00.7		11 309
67P	2014 07 31.17832	18 59 04.80	-30 59 00.7		11 309
67P	2014 07 31.17927	18 59 04.74	-30 59 00.8		11 309
67P	2014 07 31.18023	18 59 04.69	-30 59 00.9		11 309



67P	2014 07 31.18116	18 59 04.64	-30 59 01.0	11 309	67P	2014 08 13.03555	18 48 28.40	-31 02 55.4	11 309
67P	2014 07 31.18214	18 59 04.58	-30 59 01.0	11 309	67P	2014 08 13.03650	18 48 28.36	-31 02 55.5	11 309
67P	2014 07 31.18310	18 59 04.52	-30 59 01.0	11 309	67P	2014 08 13.03746	18 48 28.33	-31 02 55.5	11 309
67P	2014 08 02.21471	18 57 14.00	-31 00 31.8	11 309	67P	2014 08 13.03842	18 48 28.28	-31 02 55.4	11 309
67P	2014 08 02.21567	18 57 13.94	-31 00 31.8	11 309	67P	2014 08 13.03938	18 48 28.23	-31 02 55.5	11 309
67P	2014 08 02.21663	18 57 13.88	-31 00 31.8	11 309	67P	2014 08 13.04033	18 48 28.19	-31 02 55.5	11 309
67P	2014 08 02.21759	18 57 13.84	-31 00 31.8	11 309	67P	2014 08 13.06258	18 48 27.19	-31 02 55.2	21.0 N K 821
67P	2014 08 02.21855	18 57 13.79	-31 00 31.9	11 309	67P	2014 08 13.09505	18 48 25.77	-31 02 54.7	20.9 N K 821
67P	2014 08 02.21951	18 57 13.73	-31 00 31.9	11 309	67P	2014 08 13.11082	18 48 25.06	-31 02 54.6	21.0 N K 821
67P	2014 08 02.22047	18 57 13.68	-31 00 31.9	11 309	67P	2014 08 14.08065	18 47 44.11	-31 02 41.2	11 309
67P	2014 08 02.22143	18 57 13.63	-31 00 31.9	11 309	67P	2014 08 14.08160	18 47 44.08	-31 02 41.3	11 309
67P	2014 08 02.22238	18 57 13.58	-31 00 32.0	11 309	67P	2014 08 14.08258	18 47 44.04	-31 02 41.3	11 309
67P	2014 08 11.97945	18 49 14.57	-31 03 04.2	11 309	67P	2014 08 14.08449	18 47 43.95	-31 02 41.3	11 309
67P	2014 08 11.98045	18 49 14.53	-31 03 04.1	11 309	67P	2014 08 14.08543	18 47 43.89	-31 02 41.3	11 309
67P	2014 08 11.98146	18 49 14.48	-31 03 04.1	11 309	67P	2014 08 14.08640	18 47 43.86	-31 02 41.0	11 309
67P	2014 08 11.98248	18 49 14.43	-31 03 04.1	11 309	67P	2014 08 14.08736	18 47 43.82	-31 02 41.0	11 309
67P	2014 08 11.98353	18 49 14.38	-31 03 04.0	11 309	67P	2014 08 14.08832	18 47 43.78	-31 02 41.0	11 309
67P	2014 08 11.98454	18 49 14.34	-31 03 04.0	11 309	67P	2014 08 14.08927	18 47 43.75	-31 02 41.0	11 309
67P	2014 08 11.98553	18 49 14.30	-31 03 04.0	11 309	67P	2014 08 17.98973	18 45 10.47	-31 01 07.8	11 309
67P	2014 08 11.98659	18 49 14.25	-31 03 04.0	11 309	67P	2014 08 17.99069	18 45 10.44	-31 01 07.9	11 309
67P	2014 08 11.98766	18 49 14.21	-31 03 04.1	11 309	67P	2014 08 17.99163	18 45 10.41	-31 01 07.8	11 309
67P	2014 08 11.98868	18 49 14.15	-31 03 04.1	11 309	67P	2014 08 17.99258	18 45 10.37	-31 01 07.8	11 309
67P	2014 08 11.99240	18 49 13.99	-31 03 04.0	11 309	67P	2014 08 17.99354	18 45 10.33	-31 01 07.8	11 309
67P	2014 08 11.99334	18 49 13.95	-31 03 04.0	11 309	67P	2014 08 17.99449	18 45 10.29	-31 01 07.8	11 309
67P	2014 08 11.99526	18 49 13.86	-31 03 04.0	11 309	67P	2014 08 17.99545	18 45 10.26	-31 01 07.7	11 309
67P	2014 08 11.99622	18 49 13.81	-31 03 04.0	11 309	67P	2014 08 17.99641	18 45 10.22	-31 01 07.7	11 309
67P	2014 08 11.99719	18 49 13.77	-31 03 04.0	11 309	67P	2014 08 17.99736	18 45 10.18	-31 01 07.6	11 309
67P	2014 08 11.99815	18 49 13.72	-31 03 04.0	11 309	67P	2014 08 17.99832	18 45 10.14	-31 01 07.6	11 309
67P	2014 08 11.99912	18 49 13.68	-31 03 04.0	11 309	67P	2014 08 18.00011	18 45 10.08	-31 01 07.5	11 309
67P	2014 08 12.00008	18 49 13.64	-31 03 04.0	11 309	67P	2014 08 18.00106	18 45 10.04	-31 01 07.5	11 309
67P	2014 08 12.00102	18 49 13.60	-31 03 04.0	11 309	67P	2014 08 18.00201	18 45 10.00	-31 01 07.5	11 309
67P	2014 08 12.00345	18 49 13.49	-31 03 04.0	11 309	67P	2014 08 18.00296	18 45 09.96	-31 01 07.5	11 309
67P	2014 08 12.00441	18 49 13.44	-31 03 04.0	11 309	67P	2014 08 18.00391	18 45 09.93	-31 01 07.5	11 309
67P	2014 08 12.00537	18 49 13.40	-31 03 04.0	11 309	67P	2014 08 18.00487	18 45 09.90	-31 01 07.4	11 309
67P	2014 08 12.00633	18 49 13.35	-31 03 04.0	11 309	67P	2014 08 18.00584	18 45 09.86	-31 01 07.4	11 309
67P	2014 08 12.00730	18 49 13.31	-31 03 04.0	11 309	67P	2014 08 18.00679	18 45 09.82	-31 01 07.3	11 309
67P	2014 08 12.00826	18 49 13.27	-31 03 04.0	11 309	67P	2014 08 18.00775	18 45 09.78	-31 01 07.3	11 309
67P	2014 08 12.00922	18 49 13.23	-31 03 04.0	11 309	67P	2014 08 18.00871	18 45 09.75	-31 01 07.3	11 309
67P	2014 08 12.01018	18 49 13.17	-31 03 04.0	11 309	67P	2014 08 18.10890	18 45 05.93	-31 01 04.1	11 309
67P	2014 08 12.01114	18 49 13.13	-31 03 03.9	11 309	67P	2014 08 18.10986	18 45 05.89	-31 01 04.1	11 309
67P	2014 08 12.01210	18 49 13.09	-31 03 04.0	11 309	67P	2014 08 18.11082	18 45 05.86	-31 01 04.0	11 309
67P	2014 08 12.01389	18 49 13.01	-31 03 03.9	11 309	67P	2014 08 18.11178	18 45 05.82	-31 01 04.0	11 309
67P	2014 08 12.01487	18 49 12.96	-31 03 03.9	11 309	67P	2014 08 18.11275	18 45 05.79	-31 01 03.9	11 309
67P	2014 08 12.01582	18 49 12.93	-31 03 04.0	11 309	67P	2014 08 18.11371	18 45 05.75	-31 01 03.9	11 309
67P	2014 08 12.01677	18 49 12.88	-31 03 04.0	11 309	67P	2014 08 18.11467	18 45 05.71	-31 01 03.9	11 309
67P	2014 08 12.01774	18 49 12.84	-31 03 04.0	11 309	67P	2014 08 18.11562	18 45 05.67	-31 01 03.9	11 309
67P	2014 08 12.01870	18 49 12.78	-31 03 03.9	11 309	67P	2014 08 18.11657	18 45 05.64	-31 01 03.9	11 309
67P	2014 08 12.01966	18 49 12.74	-31 03 03.9	11 309	67P	2014 08 18.11751	18 45 05.60	-31 01 03.8	11 309
67P	2014 08 12.02062	18 49 12.70	-31 03 03.9	11 309	67P	2014 08 18.11847	18 45 05.56	-31 01 03.8	11 309
67P	2014 08 12.02158	18 49 12.65	-31 03 03.9	11 309	67P	2014 08 18.11943	18 45 05.52	-31 01 03.8	11 309
67P	2014 08 13.03269	18 48 28.52	-31 02 55.3	11 309	67P	2014 08 18.12039	18 45 05.49	-31 01 03.7	11 309
67P	2014 08 13.03364	18 48 28.48	-31 02 55.3	11 309	67P	2014 08 18.12135	18 45 05.42	-31 01 03.6	11 309
67P	2014 08 13.03460	18 48 28.44	-31 02 55.3	11 309	67P	2014 08 18.12230	18 45 05.38	-31 01 03.6	11 309



2014 SEPT. 9

M.P.C. 89447

67P	2014 08 18.12612	18 45 05.21	-31 01 03.3	11 309	67P	2014 08 29.02345	18 39 45.87	-30 51 52.6	11 309
67P	2014 08 18.12708	18 45 05.19	-31 01 03.3	11 309	67P	2014 08 29.02442	18 39 45.86	-30 51 52.4	11 309
67P	2014 08 18.12804	18 45 05.19	-31 01 03.3	11 309	67P	2014 08 29.02537	18 39 45.83	-30 51 52.4	11 309
67P	2014 08 18.12900	18 45 05.16	-31 01 03.4	11 309	67P	2014 08 29.02632	18 39 45.81	-30 51 52.3	11 309
67P	2014 08 18.12995	18 45 05.13	-31 01 03.4	11 309	67P	2014 08 29.03772	18 39 45.53	-30 51 51.6	11 309
67P	2014 08 18.13090	18 45 05.05	-31 01 03.1	11 309	67P	2014 08 29.03867	18 39 45.51	-30 51 51.6	11 309
67P	2014 08 18.13185	18 45 05.05	-31 01 03.4	11 309	67P	2014 08 29.03964	18 39 45.48	-30 51 51.4	11 309
67P	2014 08 18.13281	18 45 05.02	-31 01 03.3	11 309	67P	2014 08 29.04059	18 39 45.46	-30 51 51.4	11 309
67P	2014 08 18.13376	18 45 04.98	-31 01 03.2	11 309	67P	2014 08 29.04156	18 39 45.44	-30 51 51.4	11 309
67P	2014 08 18.13471	18 45 04.94	-31 01 03.1	11 309	67P	2014 08 29.04250	18 39 45.42	-30 51 51.3	11 309
67P	2014 08 18.13567	18 45 04.91	-31 01 03.1	11 309	67P	2014 08 29.04345	18 39 45.41	-30 51 51.1	11 309
67P	2014 08 18.13662	18 45 04.87	-31 01 03.1	11 309	67P	2014 08 29.04440	18 39 45.39	-30 51 51.0	11 309
67P	2014 08 18.13758	18 45 04.84	-31 01 03.1	11 309	67P	2014 08 30.06675	18 39 24.05	-30 50 41.5	11 309
67P	2014 08 18.13853	18 45 04.79	-31 01 03.0	11 309	67P	2014 08 30.06770	18 39 24.03	-30 50 41.5	11 309
67P	2014 08 18.13948	18 45 04.74	-31 01 02.8	11 309	67P	2014 08 30.06865	18 39 24.01	-30 50 41.5	11 309
67P	2014 08 18.14043	18 45 04.68	-31 01 02.8	11 309	67P	2014 08 30.06961	18 39 23.99	-30 50 41.2	11 309
67P	2014 08 18.14139	18 45 04.63	-31 01 02.9	11 309	67P	2014 08 30.07056	18 39 23.97	-30 50 41.2	11 309
67P	2014 08 18.98665	18 44 34.35	-31 00 34.6	11 309	67P	2014 08 30.07247	18 39 23.92	-30 50 41.2	11 309
67P	2014 08 18.98769	18 44 34.32	-31 00 34.6	11 309	67P	2014 08 30.07342	18 39 23.90	-30 50 40.9	11 309
67P	2014 08 18.98870	18 44 34.28	-31 00 34.6	11 309	67P	2014 08 30.07438	18 39 23.88	-30 50 40.9	11 309
67P	2014 08 18.98978	18 44 34.24	-31 00 34.6	11 309	67P	2014 08 30.07534	18 39 23.86	-30 50 40.9	11 309
67P	2014 08 18.99099	18 44 34.20	-31 00 34.3	11 309	<b>74P/Smirnova-Chernykh</b>				
67P	2014 08 18.99199	18 44 34.16	-31 00 34.3	11 309	74P	2014 08 25.05205	01 23 49.28	+01 00 39.7	19.7 T G36
67P	2014 08 18.99400	18 44 34.07	-31 00 34.3	11 309	74P	2014 08 25.11486	01 23 48.47	+01 00 31.2	19.4 T G36
67P	2014 08 18.99506	18 44 34.03	-31 00 34.3	11 309	74P	2014 08 25.15772	01 23 47.93	+01 00 25.4	19.8 T G36
67P	2014 08 18.99614	18 44 33.99	-31 00 34.3	11 309	74P	2014 08 25.55054	01 23 43.246	+00 59 33.46	20.8 T F51
67P	2014 08 22.06999	18 42 50.75	-30 58 29.7	20.1 N KW96	74P	2014 08 25.56417	01 23 43.070	+00 59 31.40	21.1 T F51
67P	2014 08 22.09765	18 42 49.87	-30 58 26.3	20.2 N KW96	74P	2014 08 25.57788	01 23 42.893	+00 59 29.75	20.8 T F51
67P	2014 08 22.12568	18 42 48.91	-30 58 27.3	19.9 N KW96	74P	2014 08 25.59163	01 23 42.706	+00 59 27.76	21.0 T F51
67P	2014 08 22.15352	18 42 48.01	-30 58 25.0	20.0 N KW96	74P	2014 09 07.47664	01 20 00.940	+00 25 35.11	20.2 T F51
67P	2014 08 28.97690	18 39 46.95	-30 51 55.6	11 309	74P	2014 09 07.48874	01 20 00.654	+00 25 32.98	20.3 T F51
67P	2014 08 28.97784	18 39 46.93	-30 51 55.4	11 309	74P	2014 09 07.50089	01 20 00.386	+00 25 30.80	20.4 T F51
67P	2014 08 28.97880	18 39 46.91	-30 51 55.4	11 309	<b>92P/Sanguin</b>				
67P	2014 08 28.97976	18 39 46.88	-30 51 55.3	11 309	92P	2014 08 18.27123	16 26 23.446	+01 09 35.04	21.1 T F51
67P	2014 08 28.98072	18 39 46.86	-30 51 55.3	11 309	92P	2014 08 18.28335	16 26 23.748	+01 09 29.52	21.2 T F51
67P	2014 08 28.98166	18 39 46.84	-30 51 55.1	11 309	92P	2014 08 18.29540	16 26 24.067	+01 09 23.77	21.3 T F51
67P	2014 08 28.98263	18 39 46.81	-30 51 55.1	11 309	92P	2014 08 19.25813	16 26 51.133	+01 01 51.82	20.8 T F51
67P	2014 08 28.98359	18 39 46.79	-30 51 55.1	11 309	92P	2014 08 19.27010	16 26 51.449	+01 01 46.15	20.7 T F51
67P	2014 08 28.98453	18 39 46.77	-30 51 55.0	11 309	92P	2014 08 19.28212	16 26 51.776	+01 01 40.50	20.6 T F51
67P	2014 08 28.98548	18 39 46.75	-30 51 54.9	11 309	92P	2014 08 19.29415	16 26 52.107	+01 01 35.01	20.9 T F51
67P	2014 08 29.00954	18 39 46.19	-30 51 53.4	11 309	92P	2014 08 20.25601	16 27 20.561	+00 54 00.05	21.0 T F51
67P	2014 08 29.01051	18 39 46.17	-30 51 53.3	11 309	92P	2014 08 20.26810	16 27 20.896	+00 53 54.30	20.8 T F51
67P	2014 08 29.01243	18 39 46.13	-30 51 53.1	11 309	92P	2014 08 20.28021	16 27 21.255	+00 53 48.63	20.9 T F51
67P	2014 08 29.01340	18 39 46.11	-30 51 53.1	11 309	92P	2014 08 20.29231	16 27 21.600	+00 53 42.95	21.1 T F51
67P	2014 08 29.01438	18 39 46.08	-30 51 53.1	11 309	92P	2014 08 21.26047	16 27 51.592	+00 46 02.20	21.1 T F51
67P	2014 08 29.01532	18 39 46.06	-30 51 53.0	11 309	92P	2014 08 21.27260	16 27 51.961	+00 45 56.21	21.0 T F51
67P	2014 08 29.01627	18 39 46.04	-30 51 52.9	11 309	92P	2014 08 21.28469	16 27 52.330	+00 45 50.57	21.0 T F51
67P	2014 08 29.01771	18 39 46.00	-30 51 52.9	11 309	92P	2014 08 21.29680	16 27 52.696	+00 45 44.80	20.8 T F51
67P	2014 08 29.01866	18 39 45.98	-30 51 52.8	11 309	<b>106P/Schuster</b>				
67P	2014 08 29.01962	18 39 45.96	-30 51 52.7	11 309	106P	2014 08 08.05653	05 47 14.84	+25 31 13.4	16.4 T K 215
67P	2014 08 29.02058	18 39 45.94	-30 51 52.6	11 309	106P	2014 08 08.05780	05 47 15.11	+25 31 14.7	16.5 T K 215
67P	2014 08 29.02154	18 39 45.92	-30 51 52.6	11 309					
67P	2014 08 29.02249	18 39 45.90	-30 51 52.6	11 309					



106P	2014 08 08.05908	05 47 15.30	+25 31 15.1		K 215
106P	2014 08 17.06840	06 15 02.61	+27 04 12.6	17.9 N	K C47
106P	2014 08 17.07024	06 15 03.02	+27 04 13.0	18.1 N	K C47
106P	2014 08 17.07209	06 15 03.32	+27 04 14.0	18.2 N	K C47
106P	2014 08 17.07393	06 15 03.65	+27 04 15.0	18.1 N	K C47
106P	2014 08 17.07946	06 15 04.64	+27 04 19.0	17.8 N	K C47
106P	2014 08 18.06747	06 18 07.37	+27 13 29.8	17.0 N	K C47
106P	2014 08 18.07116	06 18 08.04	+27 13 32.5	16.3 N	K C47
106P	2014 08 18.07485	06 18 08.68	+27 13 35.5	17.8 N	K C47
106P	2014 08 28.09915	06 48 52.78	+28 36 24.4	18.6 N	K C47
106P	2014 08 28.10099	06 48 53.12	+28 36 25.0	18.6 N	K C47
106P	2014 08 28.10284	06 48 53.45	+28 36 26.4	18.7 N	K C47
106P	2014 08 28.10468	06 48 53.78	+28 36 27.2	18.6 N	K C47
106P	2014 08 28.10837	06 48 54.48	+28 36 28.5	18.5 N	K C47
106P	2014 09 04.13473	07 10 08.00	+29 23 34.1	17.2 N	K A77
106P	2014 09 04.13974	07 10 08.96	+29 23 34.2	16.6 N	K A77
106P	2014 09 04.14475	07 10 09.84	+29 23 37.2	17.0 N	K A77
106P	2014 09 06.10333	07 16 01.21	+29 35 14.2	18.2 N	K C47
106P	2014 09 06.10517	07 16 01.50	+29 35 14.8	18.4 N	K C47
106P	2014 09 06.10702	07 16 01.76	+29 35 15.4	18.3 N	K C47
106P	2014 09 06.10886	07 16 02.14	+29 35 15.9	18.3 N	K C47
106P	2014 09 06.11071	07 16 02.48	+29 35 16.3	18.6 N	K C47
106P	2014 09 06.11255	07 16 02.80	+29 35 17.1	18.3 N	K C47

## 108P/Ciffréo

108P	2014 08 08.07011	03 16 44.09	+08 22 42.8	17.6 T	K 215
108P	2014 08 08.07138	03 16 44.23	+08 22 43.5	17.6 T	K 215
108P	2014 08 08.07266	03 16 44.39	+08 22 44.4	17.6 T	K 215
108P	2014 08 12.29482	03 25 23.56	+09 09 56.3	17.4 N	KW96
108P	2014 08 12.33420	03 25 28.36	+09 10 22.8	17.5 N	KW96
108P	2014 08 15.08040	03 31 04.56	+09 40 43.0	16.6 N	K A77
108P	2014 08 15.08665	03 31 05.42	+09 40 46.4	16.4 N	K A77
108P	2014 08 15.09290	03 31 06.15	+09 40 52.7	16.1 N	K A77
108P	2014 08 15.09915	03 31 06.93	+09 40 54.8	16.0 N	K A77
108P	2014 08 17.05524	03 35 05.50	+10 02 33.4	18.3 N	K C47
108P	2014 08 17.05933	03 35 06.06	+10 02 36.1	17.8 N	K C47
108P	2014 08 17.06335	03 35 06.51	+10 02 38.4	18.6 N	K C47
108P	2014 08 18.05224	03 37 06.83	+10 13 34.1	18.0 N	K C47
108P	2014 08 18.05556	03 37 07.29	+10 13 36.2	18.0 N	K C47
108P	2014 08 18.05888	03 37 07.72	+10 13 38.0	17.2 N	K C47
108P	2014 08 18.06293	03 37 08.18	+10 13 40.8	17.7 N	K C47
108P	2014 08 21.30738	03 43 41.43	+10 49 30.6	17.3 T	Y00
108P	2014 08 21.31906	03 43 42.81	+10 49 39.1	17.2 T	Y00
108P	2014 08 21.32857	03 43 43.91	+10 49 44.4	17.2 T	Y00
108P	2014 08 22.11116	03 45 18.34	+10 58 14.2	17.2 N	K A77
108P	2014 08 22.11554	03 45 18.88	+10 58 17.6	17.2 N	K A77
108P	2014 08 22.11965	03 45 19.39	+10 58 19.9	17.2 N	K A77
108P	2014 08 23.40362	03 47 53.89	+11 12 27.5	16.4 N	K H47
108P	2014 08 23.41052	03 47 54.74	+11 12 32.0	16.2 N	K H47
108P	2014 08 23.41536	03 47 55.31	+11 12 35.1	16.4 N	K H47
108P	2014 08 23.77608	03 48 38.34	+11 16 34.6	17 T	C51
Geocentric position (km) + 2531.9609 + 6179.4741 + 1668.0505					

108P	2014 08 23.77621	03 48 38.34	+11 16 34.8		C51
Geocentric position (km) + 2549.7716 + 6193.4929 + 1587.4544					
108P	2014 08 23.90775	03 48 54.15	+11 18 01.3		C51
Geocentric position (km) + 2532.5750 + 6196.9870 + 1601.2211					
108P	2014 08 24.03929	03 49 09.87	+11 19 27.8		C51
Geocentric position (km) + 2515.3696 + 6200.4120 + 1614.9604					
108P	2014 08 24.17083	03 49 25.67	+11 20 54.9		C51
Geocentric position (km) + 2498.1602 + 6203.7712 + 1628.6504					
108P	2014 08 24.30237	03 49 41.41	+11 22 21.3		C51
Geocentric position (km) + 2480.9364 + 6207.0561 + 1642.3413					
108P	2014 08 24.42889	03 49 56.86	+11 23 42.3	16.6 N	K H47
108P	2014 08 24.43391	03 49 57.17	+11 23 47.9		C51
Geocentric position (km) + 2463.7289 + 6210.2915 + 1655.8941					
108P	2014 08 24.43422	03 49 57.48	+11 23 45.8	16.5 N	K H47
108P	2014 08 24.43731	03 49 57.84	+11 23 48.3	16.5 N	K H47
108P	2014 08 24.56545	03 50 12.93	+11 25 14.5		C51
Geocentric position (km) + 2446.5076 + 6213.4528 + 1669.4473					
108P	2014 08 24.63128	03 50 20.81	+11 25 57.5		C51
Geocentric position (km) + 2446.7580 + 6222.3087 + 1635.9473					
108P	2014 08 24.69699	03 50 28.67	+11 26 40.6		C51
Geocentric position (km) + 2429.2849 + 6216.5502 + 1682.9464					
108P	2014 08 24.69712	03 50 28.68	+11 26 41.0		C51
Geocentric position (km) + 2446.9343 + 6231.0227 + 1602.3953					
108P	2014 08 24.82866	03 50 44.43	+11 28 07.3		C51
Geocentric position (km) + 2429.7487 + 6234.2604 + 1615.8279					
108P	2014 08 24.96020	03 51 00.16	+11 29 33.7		C51
Geocentric position (km) + 2412.5562 + 6237.4304 + 1629.2308					
108P	2014 08 25.02590	03 51 08.03	+11 30 17.3		C51
Geocentric position (km) + 2395.1488 + 6231.6302 + 1676.1558					
108P	2014 08 25.09174	03 51 15.90	+11 31 00.8		C51
Geocentric position (km) + 2395.3674 + 6240.5415 + 1642.5561					
108P	2014 08 25.11591	03 51 19.03	+11 31 12.9	17.2 N	K A77
108P	2014 08 25.12000	03 51 19.55	+11 31 16.0	17.1 N	K A77
108P	2014 08 25.12321	03 51 19.91	+11 31 17.4	17.0 N	K A77
108P	2014 08 25.15744	03 51 23.75	+11 31 43.7		C51
Geocentric position (km) + 2377.9412 + 6234.6091 + 1689.4637					
108P	2014 08 25.28898	03 51 39.47	+11 33 10.3		C51
Geocentric position (km) + 2360.7146 + 6237.5094 + 1702.8034					
108P	2014 08 25.42052	03 51 55.17	+11 34 37.3		C51
Geocentric position (km) + 2343.5066 + 6240.3630 + 1716.0048					
108P	2014 08 25.42065	03 51 55.18	+11 34 37.3		C51
Geocentric position (km) + 2361.1148 + 6255.4363 + 1635.5549					
108P	2014 08 25.55219	03 52 10.87	+11 36 03.6		C51
Geocentric position (km) + 2342.6710 + 6257.1871 + 1653.5489					
108P	2014 08 25.81527	03 52 42.25	+11 38 56.4		C51
Geocentric position (km) + 2308.3100 + 6262.9499 + 1679.7050					
108P	2014 08 25.94681	03 52 57.95	+11 40 23.0		C51
Geocentric position (km) + 2291.0932 + 6265.7067 + 1692.8715					
108P	2014 08 26.35101	03 53 46.49	+11 44 53.1	16.9 N	W96
108P	2014 08 26.37872	03 53 49.73	+11 45 11.4	17.0 N	W96
108P	2014 08 27.06477	03 55 11.30	+11 52 34.2	17.5 N	K L22
108P	2014 08 27.07205	03 55 12.14	+11 52 40.0	17.9 N	K L22
108P	2014 08 27.09269	03 55 14.72	+11 52 52.2	17.0 N	I81



[illegible]



117P	2014 08 07.96223	20 44 29.38	−30 31 00.6	14.8 N	J24	132P	2014 08 30.44961	07 03 38.49	+17 54 10.1		32H06
117P	2014 08 07.96508	20 44 29.27	−30 31 00.7	14.8 N	J24	132P	2014 08 30.45175	07 03 38.78	+17 54 09.7	19.9 T	32H06
117P	2014 08 07.97360	20 44 28.96	−30 31 02.0	14.8 N	J24	132P	2014 09 03.10317	07 10 57.32	+17 37 35.1	19.3 N	K C10
117P	2014 08 10.44396	20 42 45.32	−30 36 47.6	15.4 N	Q68	132P	2014 09 03.13737	07 11 01.32	+17 37 26.1	19.1 N	K C10
117P	2014 08 10.51097	20 42 42.44	−30 36 56.4	15.4 N	Q68	132P	2014 09 06.13730	07 16 53.41	+17 23 06.2	19.5 N	KA77
117P	2014 08 10.57205	20 42 39.84	−30 37 04.5	15.4 N	Q68	132P	2014 09 06.14454	07 16 54.30	+17 23 04.2	19.8 N	KA77
117P	2014 08 13.05231	20 40 58.62	−30 42 03.7	16.4 T	Y00	132P	2014 09 06.15178	07 16 55.05	+17 23 02.0	18.9 N	KA77
117P	2014 08 13.06125	20 40 58.25	−30 42 04.9	16.4 T	Y00						
117P	2014 08 13.07020	20 40 57.86	−30 42 05.7	16.4 T	Y00						
117P	2014 08 15.92501	20 39 05.96	−30 46 49.8	15.0 N	J01	134P	2014 04 30.78700	13 56 50.68	−10 19 48.5	14.5 T	168
117P	2014 08 15.93612	20 39 05.53	−30 46 51.1	15.0 N	J01	134P	2014 04 30.78908	13 56 50.63	−10 19 47.9	14.5 T	168
117P	2014 08 15.94723	20 39 05.10	−30 46 51.9	15.2 N	J01	134P	2014 05 04.81072	13 55 09.10	−10 01 44.2	14.5 T	168
117P	2014 08 17.09560	20 38 21.31	−30 48 25.3	14.7 N	J24	134P	2014 05 04.81402	13 55 09.02	−10 01 43.3	14.5 T	168
117P	2014 08 17.10525	20 38 20.95	−30 48 25.4	14.7 N	J24	134P	2014 05 04.85841	13 55 07.88	−10 01 31.6	14.4 T	168
117P	2014 08 17.11402	20 38 20.68	−30 48 27.5	14.8 N	J24	134P	2014 05 04.86131	13 55 07.82	−10 01 31.0	14.5 T	168
117P	2014 08 20.64897	20 36 13.16	−30 52 02.2	14.7 N	30D90	134P	2014 07 26.41288	14 24 31.61	−11 10 03.1	15.1 T	15Q62
117P	2014 08 20.65360	20 36 12.99	−30 52 02.3	14.7 N	30D90	134P	2014 07 26.41391	14 24 31.68	−11 10 03.2	16.5 N	15Q62
117P	2014 08 20.65822	20 36 12.83	−30 52 02.5	14.7 N	30D90	134P	2014 08 07.47959	14 38 44.81	−12 16 38.2	16.6 N	30D90
117P	2014 08 22.32245	20 35 16.86	−30 53 09.1	15.3 N	E85	134P	2014 08 07.48421	14 38 45.13	−12 16 39.8	16.6 N	30D90
117P	2014 08 22.32962	20 35 16.63	−30 53 09.6	15.3 N	E85	134P	2014 08 07.49192	14 38 45.68	−12 16 42.5	16.6 N	30D90
117P	2014 08 22.34394	20 35 16.14	−30 53 09.9	15.3 N	E85	134P	2014 08 09.89238	14 41 47.70	−12 30 35.7	16.5 N	J24
117P	2014 08 22.51707	20 35 10.32	−30 53 19.6		K 367	134P	2014 08 09.89677	14 41 48.01	−12 30 37.4	16.5 N	J24
117P	2014 08 22.51829	20 35 10.30	−30 53 20.0		K 367	134P	2014 08 09.90848	14 41 48.95	−12 30 43.7	16.4 N	J24
117P	2014 08 22.51950	20 35 10.25	−30 53 20.0	13.9 T	K 367	134P	2014 08 12.38823	14 45 01.31	−12 45 07.0	15.2 T	15Q62
117P	2014 08 22.98743	20 34 55.03	−30 53 30.6	15.4 N	G44	134P	2014 08 12.38915	14 45 01.37	−12 45 07.4	16.8 N	15Q62
117P	2014 08 23.00297	20 34 54.53	−30 53 31.4	15.4 N	G44	134P	2014 08 21.46182	14 57 16.43	−13 38 48.2	16.7 N	30D90
117P	2014 08 23.01856	20 34 53.98	−30 53 31.4	15.3 N	G44	134P	2014 08 21.46491	14 57 16.66	−13 38 49.1	16.7 N	30D90
117P	2014 08 24.90346	20 33 54.67	−30 54 11.8	14.1 N	J01	134P	2014 08 21.46797	14 57 16.86	−13 38 50.0	16.7 N	30D90
117P	2014 08 24.90718	20 33 54.55	−30 54 10.9	15.8 N	J01	134P	2014 08 27.84747	15 06 21.79	−14 16 53.8	17.2 N	KA77
117P	2014 08 24.91457	20 33 54.31	−30 54 12.9	15.7 N	J01	134P	2014 08 27.85471	15 06 22.34	−14 16 51.3	17.6 N	KA77
117P	2014 08 24.92002	20 33 54.11	−30 54 12.5	14.2 N	J38	134P	2014 09 03.43641	15 16 06.59	−14 55 41.6	18.2 N	K Q68
117P	2014 08 24.92180	20 33 54.07	−30 54 12.5	14.2 N	J38	134P	2014 09 03.46846	15 16 09.42	−14 55 52.9	17.8 N	K Q68
117P	2014 08 24.92537	20 33 53.96	−30 54 12.7	14.2 N	J38						
117P	2014 08 25.89083	20 33 25.14	−30 54 20.1	14.9 N	I99	148P	2014 08 27.47973	00 16 03.961	−04 02 37.63	21.3 T	F51
117P	2014 08 25.89427	20 33 25.05	−30 54 20.3	14.8 N	I99	148P	2014 08 27.49112	00 16 03.611	−04 02 40.73	21.2 T	F51
117P	2014 08 25.90112	20 33 24.82	−30 54 19.7	14.8 N	I99	148P	2014 08 27.50255	00 16 03.271	−04 02 43.88	21.4 T	F51
117P	2014 08 27.94377	20 32 26.88	−30 54 10.7	14.6 N	C35	148P	2014 09 03.28067	00 12 21.08	−04 36 10.6	20.9 T	691
117P	2014 08 27.94542	20 32 26.88	−30 54 10.9	14.6 N	C35	148P	2014 09 03.30096	00 12 20.26	−04 36 16.9	21.2 T	691
117P	2014 08 27.94708	20 32 26.76	−30 54 10.7	14.8 N	C35	148P	2014 09 03.32126	00 12 19.50	−04 36 22.9	21.1 T	691
	124P/Mrkos						154P/Brewington				
124P	2014 04 01.71136	10 57 03.10	+07 47 11.4	16.1 T	168	154P	2013 11 07.62108	22 09 35.72	+02 43 54.8	15.4 T	168
124P	2014 04 01.71397	10 57 02.85	+07 47 06.0	16.1 T	168	154P	2013 11 07.62502	22 09 35.97	+02 43 58.8	14.9 T	168
124P	2014 04 01.77490	10 56 56.55	+07 44 55.6	16.2 T	168	154P	2013 11 07.63399	22 09 36.49	+02 44 08.2	14.7 T	168
124P	2014 04 01.77751	10 56 56.27	+07 44 50.1	16.2 T	168	154P	2013 11 07.69261	22 09 39.75	+02 45 08.0	14.5 T	168
124P	2014 04 03.73781	10 53 46.38	+06 35 12.2	16.3 T	168	154P	2013 11 07.69469	22 09 39.87	+02 45 09.2	14.5 T	168
124P	2014 04 03.74041	10 53 46.12	+06 35 06.9	16.3 T	168						
124P	2014 04 03.78347	10 53 41.98	+06 33 35.4	16.2 T	168						
124P	2014 04 03.78694	10 53 41.65	+06 33 28.0	16.4 T	168	170P	2014 08 20.57306	01 17 19.862	−01 08 56.25	19.5 T	F51
	132P/Helin-Roman-Alu					170P	2014 08 20.58446	01 17 19.930	−01 08 59.43	19.6 T	F51
132P	2014 08 30.14788	07 03 01.71	+17 55 30.3	19.0 N	KA77	170P	2014 08 20.59588	01 17 19.986	−01 09 02.32	19.4 T	F51
132P	2014 08 30.15367	07 03 02.60	+17 55 26.8	18.7 N	KA77	170P	2014 08 20.60730	01 17 20.059	−01 09 05.51	19.4 T	F51
132P	2014 08 30.44747	07 03 38.26	+17 54 10.6		32H06	170P	2014 08 25.07995	01 17 41.22	−01 30 17.5	17.5 N	KA77
						170P	2014 08 25.08646	01 17 41.21	−01 30 20.0	17.6 N	KA77



## 193P/LINEAR-NEAT

193P	2014 05 09.58739	20 28 50.185	-30 12 11.24	20.9 T	F51
193P	2014 05 09.59555	20 28 50.621	-30 12 10.56	21.0 T	F51
193P	2014 05 09.60287	20 28 51.003	-30 12 10.10	21.1 T	F51
193P	2014 05 09.61019	20 28 51.398	-30 12 09.68	20.8 T	F51
193P	2014 05 23.56553	20 39 42.023	-30 00 28.05	20.0 T	F51
193P	2014 05 23.57617	20 39 42.426	-30 00 28.09	20.0 T	F51
193P	2014 05 23.58682	20 39 42.757	-30 00 27.76	19.9 T	F51
193P	2014 05 23.59745	20 39 43.156	-30 00 27.79	20.0 T	F51
193P	2014 06 04.55854	20 45 18.498	-29 58 20.74	20.4 T	F51
193P	2014 06 04.56955	20 45 18.706	-29 58 20.96	20.3 T	F51
193P	2014 06 04.59154	20 45 19.073	-29 58 21.17	20.1 T	F51
193P	2014 06 30.47728	20 43 28.085	-30 11 52.53	19.0 T	F51
193P	2014 06 30.48894	20 43 27.709	-30 11 52.96	19.2 T	F51
193P	2014 06 30.50062	20 43 27.369	-30 11 53.26	19.3 T	F51
193P	2014 06 30.51249	20 43 27.015	-30 11 53.79	19.4 T	F51
193P	2014 07 29.40965	20 21 23.735	-29 53 27.01	18.8 T	F51
193P	2014 07 29.42090	20 21 23.076	-29 53 25.31	18.7 T	F51
193P	2014 07 29.43216	20 21 22.418	-29 53 23.67	18.7 T	F51
193P	2014 07 29.44340	20 21 21.761	-29 53 21.94	18.7 T	F51
193P	2014 08 14.94140	20 07 20.55	-28 49 51.9	18.2 T	Y00
193P	2014 08 14.95129	20 07 20.14	-28 49 48.7	18.4 T	Y00
193P	2014 08 14.96018	20 07 19.77	-28 49 45.6	18.3 T	Y00
193P	2014 08 22.37761	20 02 41.570	-28 08 05.42	19.0 T	F51
193P	2014 08 22.38909	20 02 41.174	-28 08 01.13	19.0 T	F51
193P	2014 08 22.40057	20 02 40.785	-28 07 56.92	19.0 T	F51
193P	2014 08 22.41202	20 02 40.393	-28 07 52.58	19.0 T	F51
193P	2014 08 23.31669	20 02 13.011	-28 02 18.54	18.8 T	F51
193P	2014 08 23.32800	20 02 12.641	-28 02 14.27	18.7 T	F51
193P	2014 08 23.33934	20 02 12.268	-28 02 10.11	18.8 T	F51
193P	2014 08 23.35063	20 02 11.900	-28 02 05.88	18.7 T	F51
193P	2014 08 29.52209	19 59 43.91	-27 21 36.0	18.1 N	K E07
193P	2014 08 29.52871	19 59 43.77	-27 21 33.1	18.6 N	K E07
193P	2014 09 02.29627	19 58 50.088	-26 55 11.69	18.5 T	F51
193P	2014 09 02.30817	19 58 49.928	-26 55 06.48	18.4 T	F51
193P	2014 09 02.33199	19 58 49.620	-26 54 56.29	18.3 T	F51

## 201P/LONEOS

201P	2014 08 25.06513	23 07 08.55	-18 32 39.8	18.0 T	Y00
201P	2014 08 25.06961	23 07 08.26	-18 32 42.3	19.0 T	Y00
201P	2014 08 25.07409	23 07 07.94	-18 32 44.4	18.3 T	Y00
201P	2014 08 28.49787	23 04 10.064	-18 52 49.90	17.6 T	F51
201P	2014 08 28.50859	23 04 09.434	-18 52 53.60	17.6 T	F51
201P	2014 08 28.51931	23 04 08.818	-18 52 57.20	17.7 T	F51
201P	2014 08 28.53007	23 04 08.194	-18 53 00.86	17.7 T	F51
201P	2014 09 01.27315	23 00 34.70	-19 13 58.8	15.8 T	703
201P	2014 09 01.27917	23 00 34.17	-19 14 00.2	15.7 T	703
201P	2014 09 01.28518	23 00 33.87	-19 14 02.3	15.7 T	703
201P	2014 09 01.29119	23 00 33.50	-19 14 04.2	15.7 T	703
201P	2014 09 04.98735	22 56 46.40	-19 33 10.7	17.3 T	Y00
201P	2014 09 04.99449	22 56 45.88	-19 33 14.0	17.8 T	Y00
201P	2014 09 04.99984	22 56 45.45	-19 33 16.7	17.5 T	Y00

## 209P/LINEAR

209P	2014 04 01.70378	06 56 59.65	+72 41 15.0	17.5 T	168
209P	2014 04 01.70726	06 56 59.94	+72 41 13.8	17.6 T	168
209P	2014 04 01.76738	06 57 04.32	+72 40 58.8	17.9 T	168
209P	2014 04 01.77085	06 57 04.51	+72 40 58.0	17.7 T	168
209P	2014 04 03.77606	07 00 00.02	+72 33 50.2	17.3 T	168
209P	2014 04 03.77774	07 00 00.30	+72 33 49.0	17.1 T	168
209P	2014 04 03.77942	07 00 00.44	+72 33 49.3	17.1 T	168
209P	2014 04 09.74892	07 11 30.74	+72 08 17.0	17.2 T	168
209P	2014 04 09.75152	07 11 31.13	+72 08 16.0	17.2 T	168
209P	2014 04 10.75471	07 13 49.35	+72 03 12.7	17.3 T	168
209P	2014 04 10.75824	07 13 49.81	+72 03 11.2	17.2 T	168
209P	2014 04 10.88017	07 14 06.93	+72 02 25.5	17.6 T	168
209P	2014 04 30.75737	08 16 36.67	+68 37 35.6	16.2 T	168
209P	2014 04 30.75945	08 16 37.14	+68 37 33.3	16.3 T	168
209P	2014 04 30.82137	08 16 51.05	+68 36 15.5	16.3 T	168
209P	2014 04 30.82276	08 16 51.38	+68 36 13.8	16.4 T	168
209P	2014 07 19.56667	17 45 16.39	-69 53 08.8	17.1 T	15Q62
209P	2014 07 19.57275	17 45 17.27	-69 53 02.4		15Q62
209P	2014 07 26.51453	18 02 22.97	-67 50 33.6	17.0 T	15Q62
209P	2014 07 26.51590	18 02 23.13	-67 50 32.1		15Q62
209P	2014 07 26.53667	18 02 25.71	-67 50 09.3		15Q62
209P	2014 08 03.47844	18 19 28.11	-65 25 48.7	17.5 N	30D90
209P	2014 08 03.48134	18 19 28.44	-65 25 45.7	17.5 N	30D90
209P	2014 08 03.48425	18 19 28.80	-65 25 42.7	17.5 N	30D90
209P	2014 08 07.49402	18 27 27.79	-64 12 20.2	17.3 T	15Q62
209P	2014 08 07.50261	18 27 28.49	-64 12 11.0		15Q62
209P	2014 08 13.53267	18 38 58.67	-62 22 13.1	18.6 N	30D90
209P	2014 08 13.53744	18 38 59.23	-62 22 07.8	18.6 N	30D90
209P	2014 08 13.54220	18 38 59.72	-62 22 02.7	18.6 N	30D90
209P	2014 08 25.46414	19 00 35.97	-58 48 09.7	19.7 N	30D90
209P	2014 08 25.46891	19 00 36.47	-58 48 05.1	19.7 N	30D90
209P	2014 08 25.47368	19 00 36.99	-58 48 02.4	19.7 N	30D90

## 210P/Christensen

210P	2014 07 19.81972	04 48 10.67	+14 39 58.1	14.5 T	15Q62
210P	2014 07 19.82025	04 48 10.96	+14 39 58.9	15.4 N	15Q62
210P	2014 07 19.82076	04 48 11.17	+14 40 00.2		15Q62
210P	2014 07 27.84008	05 48 28.28	+17 16 00.4	14.8 N	15Q62
210P	2014 07 27.84056	05 48 28.58	+17 16 01.0		15Q62
210P	2014 08 06.78825	07 03 54.22	+18 53 47.0	12.3 T	349
210P	2014 08 06.79043	07 03 55.19	+18 53 47.5		349
210P	2014 08 06.79262	07 03 56.19	+18 53 48.3		349
210P	2014 08 19.79319	08 38 06.35	+18 05 57.4		349
210P	2014 08 19.79612	08 38 07.53	+18 05 56.0	11.8 T	349

## 238P/Read

238P	2011 11 26.499553	06 47 58.445	+24 05 01.93	22.5 T	29 568
238P	2011 11 26.506914	06 47 58.189	+24 05 02.46	22.3 T	29 568
238P	2011 11 26.519264	06 47 57.781	+24 05 03.37	22.4 T	29 568
238P	2011 12 22.21329	06 27 41.93	+24 36 07.4	21.8 T	5 809
238P	2011 12 22.21948	06 27 41.54	+24 36 07.7		5 809
238P	2011 12 22.23187	06 27 40.83	+24 36 08.5		5 809
238P	2011 12 22.25662	06 27 39.34	+24 36 09.6		5 809



238P	2011 12 23.25383	06 26 42.00	+24 37 07.3	22.0 T	5 809
238P	2011 12 23.26621	06 26 41.25	+24 37 07.6		5 809
238P	2011 12 23.27241	06 26 40.91	+24 37 08.0		5 809
238P	2011 12 31.303734	06 18 59.857	+24 43 27.83	22.1 T	29 568
238P	2011 12 31.313549	06 18 59.282	+24 43 28.27	21.9 T	29 568
238P	2011 12 31.323369	06 18 58.714	+24 43 28.71	22.0 T	29 568

246P	2014 09 04.01102	00 54 09.88	-16 28 02.4	16.5 N	A77
246P	2014 09 04.01859	00 54 09.63	-16 28 04.7	16.5 N	A77
246P	2014 09 04.02593	00 54 09.42	-16 28 06.8	16.5 N	A77
246P	2014 09 06.24431	00 53 02.04	-16 39 02.8	16.8 N	W96
246P	2014 09 06.26035	00 53 01.50	-16 39 07.5	16.7 N	W96

**246P/NEAT**

246P	2014 08 05.66144	01 02 06.58	-14 04 57.3	16.6 N	30D90
246P	2014 08 05.66619	01 02 06.54	-14 04 58.6	16.6 N	30D90
246P	2014 08 05.66977	01 02 06.54	-14 04 59.5	16.6 N	30D90
246P	2014 08 05.68894	01 02 06.45	-14 05 07.3	15.9 T	349
246P	2014 08 05.69980	01 02 06.43	-14 05 09.8		349
246P	2014 08 08.07703	01 01 59.46	-14 15 27.4	16.8 T	K 215
246P	2014 08 08.07831	01 01 59.46	-14 15 27.7	16.9 T	K 215
246P	2014 08 08.07958	01 01 59.44	-14 15 28.1	16.8 T	K 215
246P	2014 08 12.01286	01 01 35.28	-14 33 16.9	16.7 N	K 585
246P	2014 08 12.01393	01 01 35.26	-14 33 16.1	16.6 N	K 585
246P	2014 08 12.01463	01 01 35.26	-14 33 16.1	16.6 N	K 585
246P	2014 08 12.01570	01 01 35.20	-14 33 16.2	16.6 N	K 585
246P	2014 08 12.01640	01 01 35.28	-14 33 17.5	16.9 N	K 585
246P	2014 08 12.01748	01 01 35.12	-14 33 16.7	16.6 N	K 585
246P	2014 08 12.01963	01 01 35.19	-14 33 16.2	16.7 N	K 585
246P	2014 08 12.02034	01 01 35.14	-14 33 17.4	16.6 N	K 585
246P	2014 08 12.02178	01 01 35.12	-14 33 18.0	16.6 N	K 585
246P	2014 08 12.02249	01 01 35.11	-14 33 18.7	16.5 N	K 585
246P	2014 08 17.52802	01 00 34.881	-14 59 38.60	17.6 T	F51
246P	2014 08 17.53993	01 00 34.694	-14 59 42.38	17.8 T	F51
246P	2014 08 17.55184	01 00 34.530	-14 59 45.68	17.6 T	F51
246P	2014 08 17.56378	01 00 34.341	-14 59 49.36	17.8 T	F51
246P	2014 08 19.49940	01 00 05.870	-15 09 23.56	17.9 T	F51
246P	2014 08 19.51130	01 00 05.671	-15 09 27.17	18.0 T	F51
246P	2014 08 19.52319	01 00 05.471	-15 09 30.71	17.9 T	F51
246P	2014 08 19.53513	01 00 05.272	-15 09 34.33	18.0 T	F51
246P	2014 08 20.61331	00 59 47.75	-15 14 55.0	16.5 N	30D90
246P	2014 08 20.61807	00 59 47.68	-15 14 56.4	16.5 N	30D90
246P	2014 08 20.62284	00 59 47.58	-15 14 57.8	16.5 N	30D90
246P	2014 08 29.13126	00 56 49.70	-15 58 17.4	16.0 T	G36
246P	2014 08 29.14302	00 56 49.50	-15 58 20.5	16.2 T	G36
246P	2014 08 29.15478	00 56 49.25	-15 58 23.9	16.2 T	G36
246P	2014 08 30.12485	00 56 24.77	-16 03 20.5	17.0 N	A77
246P	2014 08 30.13209	00 56 24.63	-16 03 23.1	16.9 N	A77
246P	2014 08 30.14221	00 56 24.26	-16 03 26.5	16.0 N	A77
246P	2014 08 31.58115	00 55 46.78	-16 10 45.2	15.3 T	D95
246P	2014 08 31.58654	00 55 46.65	-16 10 47.0		D95
246P	2014 08 31.58869	00 55 46.57	-16 10 48.1		D95
246P	2014 09 02.22470	00 55 01.52	-16 19 01.9	17.2 N	W96
246P	2014 09 02.26191	00 55 00.43	-16 19 13.2	17.1 N	W96
246P	2014 09 02.36837	00 54 57.36	-16 19 48.0	15.7 T	H15
246P	2014 09 02.37858	00 54 57.07	-16 19 50.9	15.7 T	H15
246P	2014 09 02.38964	00 54 56.72	-16 19 54.2	15.5 T	H15
246P	2014 09 02.39985	00 54 56.44	-16 19 57.4	15.8 T	H15
246P	2014 09 04.00325	00 54 10.10	-16 28 00.2	16.5 N	A77

**284P/McNaught**

284P	2014 08 02.60902	23 46 58.99	-05 48 09.4	15.6 T	D95
284P	2014 08 02.61548	23 46 59.09	-05 48 11.9		D95
284P	2014 08 02.61871	23 46 59.14	-05 48 13.2		D95
284P	2014 08 02.68388	23 47 00.07	-05 48 38.2	15.6 T	349
284P	2014 08 02.69102	23 47 00.16	-05 48 40.8		349
284P	2014 08 02.69807	23 47 00.28	-05 48 43.9		349
284P	2014 08 04.56295	23 47 27.70	-06 01 10.7	16.0 N	30D90
284P	2014 08 04.56725	23 47 27.75	-06 01 12.4	16.0 N	30D90
284P	2014 08 04.57154	23 47 27.79	-06 01 14.2	16.0 N	30D90
284P	2014 08 08.99830	23 48 11.87	-06 34 07.0	17.3 N	K C47
284P	2014 08 09.00051	23 48 11.88	-06 34 07.9	16.9 N	K C47
284P	2014 08 09.00272	23 48 11.92	-06 34 09.5	17.5 N	K C47
284P	2014 08 09.00493	23 48 11.93	-06 34 10.0	17.2 N	K C47
284P	2014 08 09.01047	23 48 11.94	-06 34 12.5	17.4 N	K C47
284P	2014 08 16.09468	23 48 23.55	-07 34 34.2	16.6 N	K A77
284P	2014 08 16.10191	23 48 23.54	-07 34 38.1	16.5 N	K A77
284P	2014 08 16.10915	23 48 23.37	-07 34 41.9	16.9 N	K A77
284P	2014 08 17.97324	23 48 14.94	-07 52 02.5	16.2 N	A77
284P	2014 08 17.97934	23 48 14.88	-07 52 06.0	16.1 N	A77
284P	2014 08 17.98549	23 48 14.83	-07 52 09.4	16.2 N	A77
284P	2014 08 17.99153	23 48 14.77	-07 52 13.4	16.2 N	A77
284P	2014 08 18.94635	23 48 08.26	-08 01 19.4	15.4 N	A98
284P	2014 08 18.94883	23 48 08.24	-08 01 21.8	15.7 N	A98
284P	2014 08 18.95132	23 48 08.30	-08 01 22.7	15.6 N	A98
284P	2014 08 18.95297	23 48 08.31	-08 01 23.1	15.8 N	A98
284P	2014 08 18.95587	23 48 08.26	-08 01 25.2	15.8 N	A98
284P	2014 08 18.95834	23 48 08.22	-08 01 26.2	15.6 N	A98
284P	2014 08 18.96042	23 48 08.22	-08 01 27.6	16.0 N	A98
284P	2014 08 18.96083	23 48 08.16	-08 01 27.6	15.8 N	A98
284P	2014 08 19.65962	23 48 02.74	-08 08 11.4		900
284P	2014 08 19.66677	23 48 02.66	-08 08 15.5	14.8 T	900
284P	2014 08 20.02539	23 47 59.48	-08 11 45.7	16.7 N	K 585
284P	2014 08 20.02610	23 47 59.47	-08 11 45.9	16.7 N	K 585
284P	2014 08 20.02681	23 47 59.46	-08 11 46.3	16.7 N	K 585
284P	2014 08 20.02753	23 47 59.45	-08 11 46.9	16.7 N	K 585
284P	2014 08 20.02825	23 47 59.44	-08 11 47.1	16.8 N	K 585
284P	2014 08 20.02864	23 47 59.44	-08 11 47.2	16.9 N	K 585
284P	2014 08 20.02900	23 47 59.42	-08 11 47.3	17.1 N	K 585
284P	2014 08 20.02938	23 47 59.42	-08 11 47.4	17.2 N	K 585
284P	2014 08 20.03014	23 47 59.40	-08 11 47.9	16.9 N	K 585
284P	2014 08 20.03091	23 47 59.43	-08 11 48.9	16.7 N	K 585
284P	2014 08 20.03402	23 47 59.38	-08 11 50.9	16.7 N	K 585
284P	2014 08 20.08924	23 47 58.82	-08 12 22.7	15.7 N	K A77
284P	2014 08 20.09570	23 47 58.75	-08 12 26.2	15.9 N	K A77
284P	2014 08 20.10613	23 47 58.63	-08 12 31.8	15.6 N	K A77
284P	2014 08 20.48383	23 47 55.457	-08 16 12.07	17.2 T	F51



2014 SEPT. 9

M.P.C. 89453

284P	2014 08 20.49601	23 47 55.303	−08 16 19.36	17.2 T	F51	296P	2014 08 02.01570	20 48 04.18	+18 56 06.5	19.9 N	461
284P	2014 08 20.50818	23 47 55.167	−08 16 26.43	17.2 T	F51	296P	2014 08 02.03115	20 48 03.21	+18 56 10.0	20.1 N	461
284P	2014 08 20.52036	23 47 55.011	−08 16 33.75	17.3 T	F51	296P	2014 08 02.04742	20 48 02.21	+18 56 13.6	20.0 N	461
284P	2014 08 20.60286	23 47 54.40	−08 17 16.4	15.6 N	30D90	296P	2014 08 02.05912	20 48 01.47	+18 56 16.4	19.7 N	461
284P	2014 08 20.60716	23 47 54.35	−08 17 18.8	15.6 N	30D90	296P	2014 08 05.51161	20 44 34.63	+19 06 55.7	18.6 N	30D90
284P	2014 08 20.61148	23 47 54.30	−08 17 21.4	15.6 N	30D90	296P	2014 08 05.51815	20 44 34.20	+19 06 56.3	18.6 N	30D90
284P	2014 08 24.39661	23 47 08.42	−08 55 33.1	15.5 N	H47	296P	2014 08 05.52470	20 44 33.82	+19 06 57.9	18.6 N	30D90
284P	2014 08 24.40044	23 47 08.38	−08 55 35.4	15.5 N	H47	296P	2014 08 16.14708	20 34 49.04	+19 08 58.5	19.0 N	K 850
284P	2014 08 24.40690	23 47 08.25	−08 55 39.4	15.5 N	H47	296P	2014 08 16.16220	20 34 48.24	+19 08 56.8	19.0 N	K 850
284P	2014 08 24.41053	23 47 08.21	−08 55 41.5	15.6 N	H47	296P	2014 08 16.17734	20 34 47.55	+19 08 56.5	19.1 N	K 850
284P	2014 08 25.08655	23 46 58.21	−09 02 40.7	15.6 N	K A77	296P	2014 08 16.23784	20 34 44.38	+19 08 47.8	19.1 N	K 850
284P	2014 08 25.09306	23 46 58.09	−09 02 44.1	15.6 N	K A77	296P	2014 08 16.25299	20 34 43.53	+19 08 46.1	19.0 N	K 850
284P	2014 08 25.09958	23 46 57.93	−09 02 47.8	15.2 N	K A77	296P	2014 08 16.26805	20 34 42.96	+19 08 47.0	18.9 N	K 850
284P	2014 08 25.10611	23 46 57.85	−09 02 52.7	15.3 N	K A77	296P	2014 08 23.19611	20 29 31.08	+18 48 42.3	19.8 N	K 850
284P	2014 08 26.28828	23 46 39.12	−09 15 02.9	16.0 N	W96	296P	2014 08 23.20358	20 29 30.70	+18 48 39.6	19.9 N	K 850
284P	2014 08 26.33299	23 46 38.27	−09 15 30.9	16.0 N	W96	296P	2014 08 23.22597	20 29 29.74	+18 48 33.9	19.5 N	K 850
284P	2014 08 27.03871	23 46 26.38	−09 23 01.6	15.5 N	C23	296P	2014 08 28.92110	20 26 08.21	+18 22 14.6	17.6 N	B54
284P	2014 08 27.04309	23 46 26.34	−09 23 04.0	15.5 N	C23	296P	2014 08 28.92160	20 26 08.21	+18 22 14.7	17.9 N	B54
284P	2014 08 27.04748	23 46 26.23	−09 23 06.7	15.7 N	C23	296P	2014 08 28.92208	20 26 08.19	+18 22 14.6	17.8 N	B54
284P	2014 08 28.05750	23 46 07.99	−09 33 45.1	15.7 N	K15						
284P	2014 08 28.06454	23 46 07.87	−09 33 49.1	15.7 N	K15						
284P	2014 08 28.07155	23 46 07.73	−09 33 53.4	15.7 N	K15						
284P	2014 08 28.07859	23 46 07.59	−09 33 57.8	15.7 N	K15	303P	2014 07 28.04033	22 24 39.46	−15 14 00.8	19.1 T	J04
284P	2014 08 28.96018	23 45 51.06	−09 43 17.9	15.7 N	K 160	303P	2014 07 28.05202	22 24 39.23	−15 14 00.4	19.0 T	J04
284P	2014 08 28.96294	23 45 50.99	−09 43 19.1	15.7 N	K 160	303P	2014 07 28.06371	22 24 38.98	−15 14 00.3	18.8 T	J04
284P	2014 08 28.96570	23 45 50.94	−09 43 21.2	15.6 N	K 160	303P	2014 07 28.07540	22 24 38.71	−15 14 00.2	18.6 T	J04
284P	2014 08 29.25747	23 45 45.02	−09 46 20.2	15.8 N	W96	303P	2014 08 05.64288	22 21 08.08	−15 13 39.5	17.9 T	349
284P	2014 08 29.27276	23 45 44.70	−09 46 30.0	15.8 N	W96	303P	2014 08 05.66047	22 21 07.56	−15 13 39.1		349
284P	2014 08 29.28838	23 45 44.33	−09 46 40.1	15.8 N	W96	303P	2014 08 27.46459	22 07 56.43	−15 14 17.7	20.0 N	K E07
284P	2014 08 31.27181	23 45 03.14	−10 07 57.6	14.0 T	703	303P	2014 08 27.47121	22 07 56.17	−15 14 17.6	19.4 N	K E07
284P	2014 08 31.27784	23 45 02.90	−10 08 01.1		703	303P	2014 09 02.34383	22 04 11.771	−15 11 09.79	19.6 T	F51
284P	2014 08 31.28383	23 45 02.91	−10 08 04.4		703	303P	2014 09 02.35743	22 04 11.239	−15 11 09.23	19.8 T	F51
284P	2014 08 31.28985	23 45 02.76	−10 08 08.5		703	303P	2014 09 02.37104	22 04 10.702	−15 11 08.66	19.9 T	F51
284P	2014 08 31.54784	23 44 57.29	−10 10 54.4	15.2 T	D95						
284P	2014 08 31.55215	23 44 57.19	−10 10 57.2		D95						
284P	2014 08 31.55753	23 44 57.05	−10 11 00.4		D95	304P	2014 07 31.59201	03 36 10.675	+17 06 02.51	20.0 T	F51
284P	2014 08 31.96763	23 44 47.82	−10 15 25.3	15.8 N	C23	304P	2014 07 31.59738	03 36 11.761	+17 06 06.74	20.0 T	F51
284P	2014 08 31.97202	23 44 47.69	−10 15 28.5	15.4 N	C23	304P	2014 07 31.60274	03 36 12.847	+17 06 11.02	20.1 T	F51
284P	2014 08 31.97750	23 44 47.56	−10 15 31.6	15.7 N	C23	304P	2014 07 31.60809	03 36 13.933	+17 06 15.14	20.0 T	F51
284P	2014 09 05.26938	23 43 03.77	−11 01 26.9	15.6 N	W96	304P	2014 08 30.44108	05 17 33.32	+21 42 05.0		32H06
284P	2014 09 05.29153	23 43 03.16	−11 01 40.8	15.7 N	W96	304P	2014 08 30.44244	05 17 33.60	+21 42 05.6		32H06
						304P	2014 08 30.44379	05 17 33.89	+21 42 06.0	17.1 T	32H06



**306P/LINEAR**

306P	2014 08 05.76491	02 51 39.45	+19 07 38.6	1 Q62
306P	2014 08 05.76712	02 51 39.86	+19 07 42.1	1 Q62
306P	2014 08 05.76932	02 51 40.27	+19 07 46.0	18.5 T 1 Q62
306P	2014 08 27.19383	03 49 34.20	+27 00 09.6	18 T C51
Geocentric position (km)	+ 1702.9643	+ 5744.5496	+ 3382.1378	
306P	2014 08 27.32537	03 49 53.07	+27 02 37.9	C51
Geocentric position (km)	+ 1686.1208	+ 5742.8290	+ 3393.4493	
306P	2014 08 27.45691	03 50 11.91	+27 05 06.2	C51
Geocentric position (km)	+ 1669.3125	+ 5741.0777	+ 3404.6734	
306P	2014 08 27.58845	03 50 30.75	+27 07 34.2	C51
Geocentric position (km)	+ 1652.5200	+ 5739.2663	+ 3415.8695	
306P	2014 08 27.71999	03 50 49.50	+27 10 01.9	C51
Geocentric position (km)	+ 1635.7647	+ 5737.4278	+ 3426.9731	
306P	2014 08 27.85153	03 51 08.22	+27 12 29.4	C51
Geocentric position (km)	+ 1619.0345	+ 5735.5440	+ 3438.0217	
306P	2014 08 27.85166	03 51 08.22	+27 12 30.0	C51
Geocentric position (km)	+ 1642.2282	+ 5771.6516	+ 3366.0819	
306P	2014 08 27.98320	03 51 26.96	+27 14 57.0	C51
Geocentric position (km)	+ 1625.4805	+ 5769.9116	+ 3377.1432	
306P	2014 08 28.04891	03 51 36.29	+27 16 10.3	C51
Geocentric position (km)	+ 1605.5914	+ 5750.9525	+ 3418.6020	
306P	2014 08 28.11474	03 51 45.64	+27 17 23.6	C51
Geocentric position (km)	+ 1608.7575	+ 5768.1267	+ 3388.1496	
306P	2014 08 28.18045	03 51 54.95	+27 18 36.6	C51
Geocentric position (km)	+ 1588.8882	+ 5749.0289	+ 3429.5939	
306P	2014 08 28.24628	03 52 04.22	+27 19 50.5	C51
Geocentric position (km)	+ 1592.0453	+ 5766.2747	+ 3399.1452	
306P	2014 08 28.31199	03 52 13.57	+27 21 03.2	C51
Geocentric position (km)	+ 1572.2221	+ 5747.0795	+ 3440.4952	
306P	2014 08 28.37782	03 52 22.84	+27 22 16.5	C51
Geocentric position (km)	+ 1575.3756	+ 5764.4062	+ 3410.0317	
306P	2014 08 28.44353	03 52 32.13	+27 23 29.4	C51
Geocentric position (km)	+ 1555.5903	+ 5745.1000	+ 3451.3148	
306P	2014 08 28.50936	03 52 41.42	+27 24 41.9	C51
Geocentric position (km)	+ 1558.7337	+ 5762.4976	+ 3420.8555	
306P	2014 08 28.57520	03 52 50.67	+27 25 55.0	C51
Geocentric position (km)	+ 1561.8012	+ 5779.7655	+ 3390.2996	
306P	2014 08 28.64090	03 52 59.89	+27 27 08.1	C51
Geocentric position (km)	+ 1542.1191	+ 5760.5491	+ 3431.6192	
306P	2014 08 28.70674	03 53 09.18	+27 28 21.1	C51
Geocentric position (km)	+ 1545.1674	+ 5777.8737	+ 3401.0979	
306P	2014 08 28.83828	03 53 27.61	+27 30 46.1	C51
Geocentric position (km)	+ 1528.5755	+ 5775.9652	+ 3411.7889	
306P	2014 08 29.10136	03 54 04.49	+27 35 35.7	C51
Geocentric position (km)	+ 1495.4658	+ 5772.0175	+ 3433.0142	
306P	2014 08 29.23290	03 54 22.84	+27 38 00.3	C51
Geocentric position (km)	+ 1478.9315	+ 5769.9508	+ 3443.6028	
306P	2014 08 29.36444	03 54 41.15	+27 40 23.3	C51
Geocentric position (km)	+ 1462.4400	+ 5767.8705	+ 3454.0837	
306P	2014 08 29.49598	03 54 59.43	+27 42 48.2	C51
Geocentric position (km)	+ 1446.8535	+ 5767.1721	+ 3461.3253	
306P	2014 08 30.42845	03 57 08.51	+27 59 36.9	32H06

**306P**

306P

2014 08 30.43061	03 57 08.80	+27 59 39.7		32H06
2014 08 30.43278	03 57 09.12	+27 59 41.9	19.5 T	32H06

**307P/LINEAR**

307P	2014 08 14.45677	21 59 25.168	-10 24 07.97	19.0 T	F51
307P	2014 08 14.46918	21 59 24.764	-10 24 11.81	19.2 T	F51
307P	2014 08 14.48159	21 59 24.342	-10 24 15.79	19.2 T	F51
307P	2014 08 14.49396	21 59 23.930	-10 24 19.77	19.2 T	F51
307P	2014 08 15.47224	21 58 54.396	-10 29 33.32	19.6 T	F51
307P	2014 08 15.48463	21 58 53.982	-10 29 37.24	19.3 T	F51
307P	2014 08 15.49700	21 58 53.575	-10 29 41.24	19.4 T	F51
307P	2014 08 16.98913	21 58 07.43	-10 37 52.9	18.3 T	104
307P	2014 08 16.99747	21 58 07.10	-10 37 55.3	18.5 T	104
307P	2014 08 17.00571	21 58 06.86	-10 37 58.3	18.2 T	104
307P	2014 08 18.50752	21 57 19.36	-10 46 12.5	19.2 N	474
307P	2014 08 18.51034	21 57 19.26	-10 46 13.4	19.3 N	474
307P	2014 08 18.51174	21 57 19.20	-10 46 13.9	18.9 N	474
307P	2014 08 18.51384	21 57 19.14	-10 46 14.6	19.1 N	474
307P	2014 08 19.50886	21 56 47.20	-10 52 02.1	18.0 T	KD95
307P	2014 08 19.51178	21 56 47.14	-10 52 03.5		KD95
307P	2014 08 22.93089	21 54 54.49	-11 12 01.9	17.4 T	J75
307P	2014 08 22.93613	21 54 54.30	-11 12 03.8	17.6 T	J75
307P	2014 08 22.94140	21 54 54.11	-11 12 06.4	17.7 T	J75
307P	2014 08 26.38643	21 52 59.278	-11 32 42.28	19.3 T	F51
307P	2014 08 26.39833	21 52 58.849	-11 32 46.63	19.3 T	F51
307P	2014 08 26.41024	21 52 58.418	-11 32 50.90	19.2 T	F51
307P	2014 08 26.42213	21 52 57.988	-11 32 55.21	19.3 T	F51
307P	2014 08 27.42063	21 52 24.837	-11 38 57.46	19.5 T	F51
307P	2014 08 27.43423	21 52 24.353	-11 39 02.46	19.5 T	F51
307P	2014 09 02.26588	21 49 17.23	-12 14 17.0	17.9 T	G96
307P	2014 09 02.27046	21 49 17.09	-12 14 18.6	17.9 T	G96
307P	2014 09 02.27504	21 49 16.95	-12 14 20.6	17.9 T	G96
307P	2014 09 02.27962	21 49 16.76	-12 14 22.3	17.9 T	G96
307P	2014 09 02.30168	21 49 16.04	-12 14 29.9	17.9 T	G96
307P	2014 09 02.30737	21 49 15.86	-12 14 31.6	18.0 T	G96
307P	2014 09 02.31306	21 49 15.65	-12 14 33.7	17.8 T	G96
307P	2014 09 02.31876	21 49 15.47	-12 14 35.7	17.8 T	G96
307P	2014 09 03.23258	21 48 47.94	-12 20 02.4	17.8 T	G96
307P	2014 09 03.23849	21 48 47.75	-12 20 04.6	17.7 T	G96
307P	2014 09 03.24442	21 48 47.56	-12 20 07.0	17.9 T	G96
307P	2014 09 03.25034	21 48 47.34	-12 20 08.8	17.7 T	G96

**308P/Lagerkvist-Carsenty**

308P	2014 07 30.73763	00 57 00.23	+00 51 51.7		1 Q62
308P	2014 07 30.74306	00 57 00.24	+00 51 51.3	20.2 T	1 Q62
308P	2014 08 21.13263	00 57 06.91	+00 38 23.9	20.6 T	J43
308P	2014 08 21.14563	00 57 06.82	+00 38 23.7	20.9 T	J43
308P	2014 08 21.15861	00 57 06.71	+00 38 22.5	20.4 T	J43
308P	2014 08 21.17161	00 57 06.60	+00 38 21.6	20.9 T	J43
308P	2014 08 22.10814	00 56 58.52	+00 37 00.3		J43
308P	2014 08 22.14683	00 56 58.22	+00 36 56.2		J43
308P	2014 09 01.39872	00 54 45.24	+00 18 26.7	20.1 T	691
308P	2014 09 01.42196	00 54 44.74	+00 18 22.8	20.3 T	691
308P	2014 09 01.44226	00 54 44.46	+00 18 21.6	20.6 T	691



**309P/LINEAR**

309P	2014 08 22.52203	00 18 19.482	-10 53 26.10	20.0 T	F51
309P	2014 08 22.53320	00 18 19.159	-10 53 25.46	20.2 T	F51
309P	2014 08 22.54438	00 18 18.836	-10 53 24.76	20.1 T	F51
309P	2014 08 22.55558	00 18 18.512	-10 53 24.13	20.2 T	F51
309P	2014 08 22.99990	00 18 06.64	-10 52 59.1	19.9 T	461
309P	2014 08 23.00831	00 18 06.39	-10 52 58.6	19.8 T	461
309P	2014 08 23.01422	00 18 06.22	-10 52 58.2	19.7 T	461
309P	2014 08 23.53321	00 17 51.721	-10 52 25.16	19.9 T	F51
309P	2014 08 23.54594	00 17 51.330	-10 52 24.43	19.9 T	F51
309P	2014 08 23.55868	00 17 50.940	-10 52 23.66	20.0 T	F51
309P	2014 08 23.57139	00 17 50.553	-10 52 22.84	20.0 T	F51
309P	2014 09 01.29405	00 12 37.48	-10 43 19.3	19.2 T	H15
309P	2014 09 01.30360	00 12 37.14	-10 43 18.0	19.4 T	H15
309P	2014 09 01.31316	00 12 36.66	-10 43 17.0	18.6 T	H15
309P	2014 09 01.32381	00 12 36.24	-10 43 17.0	19.2 T	H15
309P	2014 09 02.33524	00 11 51.55	-10 42 04.9	19.8 T	703
309P	2014 09 02.34463	00 11 51.01	-10 42 04.3	19.5 T	703
309P	2014 09 02.35404	00 11 50.62	-10 42 03.9	19.2 T	703
309P	2014 09 02.36565	00 11 50.10	-10 42 03.0	19.1 T	703
309P	2014 09 02.44322	00 11 46.778	-10 41 55.81	19.7 T	F51
309P	2014 09 02.45382	00 11 46.275	-10 41 55.00	19.6 T	F51
309P	2014 09 02.45513	00 11 46.211	-10 41 54.91	19.6 T	F51
309P	2014 09 02.47501	00 11 45.267	-10 41 53.55	19.5 T	F51
309P	2014 09 02.47632	00 11 45.204	-10 41 53.45	19.4 T	F51

**310P/Hill**

310P	2014 08 24.97928	22 53 04.94	-19 24 48.4	19.5 T	K 461
310P	2014 08 24.98419	22 53 04.72	-19 24 49.1	19.8 T	K 461
310P	2014 08 24.98812	22 53 04.51	-19 24 49.3	20.0 T	K 461
310P	2014 08 25.94008	22 52 18.73	-19 26 18.7	20.3 T	K 461
310P	2014 08 25.94708	22 52 18.42	-19 26 19.0		K 461
310P	2014 08 25.95250	22 52 18.12	-19 26 19.9	19.9 T	K 461
310P	2014 08 25.98187	22 52 16.65	-19 26 22.3	20.2 T	K 461
310P	2014 08 29.51752	22 49 22.24	-19 31 06.6		1 Q62
310P	2014 08 29.51956	22 49 22.16	-19 31 07.0		1 Q62
310P	2014 08 29.52160	22 49 22.08	-19 31 07.6	19.4 T	1 Q62
310P	2014 08 29.62378	22 49 16.83	-19 31 15.0		1 Q62
310P	2014 08 29.62632	22 49 16.74	-19 31 15.8	20.0 T	1 Q62
310P	2014 08 30.46608	22 48 34.65	-19 32 11.7		1 Q62
310P	2014 08 30.46793	22 48 34.55	-19 32 12.3		1 Q62
310P	2014 08 30.46979	22 48 34.48	-19 32 12.8	19.6 T	1 Q62

**311P/PANSTARRS**

311P	2010 10 17.23352	01 46 35.83	+21 05 43.4	20.3 T	G96
311P	2010 10 17.24008	01 46 35.43	+21 05 41.6	20.6 T	G96
311P	2010 10 17.24662	01 46 35.00	+21 05 39.3	20.7 T	G96
311P	2010 10 17.25329	01 46 34.60	+21 05 37.2	20.1 T	G96
311P	2010 11 02.17902	01 31 04.36	+19 14 00.1	21.0 T	G96
311P	2010 11 02.18591	01 31 03.97	+19 13 56.7	20.7 T	G96
311P	2010 11 02.19277	01 31 03.57	+19 13 53.4	20.6 T	G96
311P	2010 11 02.19964	01 31 03.21	+19 13 50.0	20.6 T	G96
311P	2010 12 03.16004	01 18 11.05	+15 39 58.3	20.4 T	G96
311P	2010 12 03.16795	01 18 11.16	+15 39 56.5	20.6 T	G96

311P	2010 12 03.17618	01 18 11.19	+15 39 54.0	21.2 T	G96
311P	2010 12 03.18475	01 18 11.23	+15 39 52.0	21.2 T	G96
311P	2013 10 18.63728	22 18 12.010	-02 07 15.90		250
Geocentric position (km) + 405.9846 - 6075.3484 + 3298.6035					
311P	2013 10 18.64278	22 18 11.854	-02 07 16.25		250
Geocentric position (km) + 3794.1153 - 5049.2684 + 2838.4743					
311P	2013 10 18.64829	22 18 11.650	-02 07 15.82		250
Geocentric position (km) + 6174.4162 - 2682.5213 + 1622.6439					
311P	2013 10 18.65422	22 18 11.431	-02 07 14.72		250
Geocentric position (km) + 6897.3263 + 636.2543 - 155.5843					
311P	2013 10 18.65973	22 18 11.299	-02 07 13.68		250
Geocentric position (km) + 5667.4780 + 3569.9130 - 1778.5964					
311P	2013 10 18.66457	22 18 11.263	-02 07 13.12		250
Geocentric position (km) + 3324.3894 + 5385.5436 - 2825.3826					
311P	2013 10 18.70371	22 18 12.211	-02 07 25.41		250
Geocentric position (km) + 411.1272 - 6075.2029 + 3297.9922					
311P	2013 10 18.70922	22 18 12.070	-02 07 25.81		250
Geocentric position (km) + 3798.9934 - 5053.4125 + 2825.9926					
311P	2013 10 18.71473	22 18 11.866	-02 07 25.27		250
Geocentric position (km) + 6178.3147 - 2689.5415 + 1601.4582					
311P	2013 10 18.72065	22 18 11.650	-02 07 24.20		250
Geocentric position (km) + 6895.8329 + 628.5243 - 180.0681					
311P	2013 10 18.72616	22 18 11.518	-02 07 23.18		250
Geocentric position (km) + 5662.7238 + 3561.8324 - 1798.4054					
311P	2013 10 18.73101	22 18 11.482	-02 07 22.61		250
Geocentric position (km) + 3318.9784 + 5378.9795 - 2836.6675					
311P	2013 11 13.34782	22 30 10.541	-02 11 07.38		250
Geocentric position (km) + 462.5187 - 6098.7274 - 3264.3841					
311P	2013 11 13.35333	22 30 10.678	-02 11 06.90		250
Geocentric position (km) + 3815.4448 - 4894.5544 - 3090.5555					
311P	2013 11 13.35884	22 30 10.762	-02 11 07.19		250
Geocentric position (km) + 6157.9183 - 2395.1788 - 2096.5649					
311P	2013 11 13.36476	22 30 10.850	-02 11 08.16		250
Geocentric position (km) + 6847.9991 + 977.8477 - 417.0414					
311P	2013 11 13.37027	22 30 10.997	-02 11 08.94		250
Geocentric position (km) + 5605.7008 + 3866.9002 + 1271.1154					
311P	2013 11 13.37512	22 30 11.194	-02 11 09.35		250
Geocentric position (km) + 3265.4636 + 5577.2499 + 2488.0266					
311P	2013 11 13.41426	22 30 13.889	-02 10 59.32		250
Geocentric position (km) + 470.4760 - 6094.2585 - 3267.4396					
311P	2013 11 13.42003	22 30 14.033	-02 10 58.80		250
Geocentric position (km) + 3966.6631 - 4799.3770 - 3050.2652					
311P	2013 11 13.42554	22 30 14.119	-02 10 59.10		250
Geocentric position (km) + 6239.4827 - 2254.1461 - 2010.9948					
311P	2013 11 13.43147	22 30 14.218	-02 10 59.91		250
Geocentric position (km) + 6830.4315 + 1126.2366 - 308.3160					
311P	2013 11 13.43724	22 30 14.376	-02 11 00.68		250
Geocentric position (km) + 5393.9635 + 4096.9703 + 1446.4301					
311P	2013 11 13.44180	22 30 14.575	-02 11 01.00		250
Geocentric position (km) + 3112.4325 + 5633.0272 + 2556.1187					
311P	2013 12 08.32597	22 58 07.997	-00 29 05.75		250
Geocentric position (km) + 1099.2702 - 6071.9219 + 3132.5515					



311P	2013 12 08.33148	22 58 08.318	−00 29 04.13	250
Geocentric position (km)	+ 4256.8524	− 4405.2497	+ 3221.0134	
311P	2013 12 08.33699	22 58 08.599	−00 29 01.48	250
Geocentric position (km)	+ 6283.0283	− 1567.1418	+ 2450.7803	
311P	2013 12 08.34292	22 58 08.904	−00 28 58.12	250
Geocentric position (km)	+ 6591.4843	+ 1933.1906	+ 899.4480	
311P	2013 12 08.34843	22 58 09.238	−00 28 54.80	250
Geocentric position (km)	+ 5056.4543	+ 4670.7576	− 800.3846	
311P	2013 12 08.35328	22 58 09.598	−00 28 52.08	250
Geocentric position (km)	+ 2579.2633	+ 6070.0374	− 2131.8569	
311P	2013 12 31.10980	23 32 48.187	+02 17 36.24	250
Geocentric position (km)	+ 1632.3152	− 6282.2981	− 2425.7131	
311P	2013 12 31.11531	23 32 48.629	+02 17 39.70	250
Geocentric position (km)	+ 4441.6362	− 4230.3538	− 3224.8492	
311P	2013 12 31.12082	23 32 49.027	+02 17 42.56	250
Geocentric position (km)	+ 6073.2387	− 1055.7904	− 3166.3357	
311P	2013 12 31.12676	23 32 49.454	+02 17 44.96	250
Geocentric position (km)	+ 6021.3966	+ 2650.8150	− 2164.6982	
311P	2013 12 31.13227	23 32 49.894	+02 17 46.62	250
Geocentric position (km)	+ 4311.8412	+ 5382.6226	− 630.0692	
311P	2013 12 31.13711	23 32 50.330	+02 17 47.95	250
Geocentric position (km)	+ 1842.3477	+ 6618.0698	+ 871.3968	
311P	2014 02 11.41816	00 51 14.933	+09 19 34.15	250
Geocentric position (km)	+ 3637.5165	− 5746.3294	+ 1315.1234	
311P	2014 02 11.42367	00 51 15.538	+09 19 38.95	250
Geocentric position (km)	+ 5921.4501	− 3581.5145	− 371.1371	
311P	2014 02 11.42918	00 51 16.102	+09 19 43.63	250
Geocentric position (km)	+ 6633.9542	− 465.2173	− 1959.1050	
311P	2014 02 11.43512	00 51 16.676	+09 19 48.01	250
Geocentric position (km)	+ 5433.9607	+ 3004.9431	− 3076.3563	
311P	2014 02 11.44063	00 51 17.234	+09 19 51.52	250
Geocentric position (km)	+ 2816.7022	+ 5419.9803	− 3271.0628	
311P	2014 02 11.44547	00 51 17.760	+09 19 54.08	250
Geocentric position (km)	− 133.4725	+ 6370.0968	− 2719.3876	

## OBSERVATIONS OF NATURAL SATELLITES

Observations are published here for the following observatory code:

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

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.	N Obs.
Neptune II	2014 08	20.59876	22 33 31.50	−09 52 13.9	19.1 V	K E07
Neptune II	2014 08	20.61036	22 33 31.43	−09 52 14.2	19.1 V	K E07
Neptune II	2014 08	29.57179	22 32 36.17	−09 57 46.4	19.1 V	K E07
Neptune II	2014 08	29.58339	22 32 36.10	−09 57 46.8	19.2 V	K E07
Uranus XVII	2014 08	20.67908	00 59 34.41	+05 31 04.5	21.0 V	K E07
Uranus XVII	2014 08	20.69068	00 59 34.28	+05 31 04.5	21.0 V	K E07

## OBSERVATIONS OF MINOR PLANETS

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

**006 Fabra Observatory, Barcelona**

J. M. Codina, Fabra Observatory, E-08022 Barcelona, Spain

[fabra@fajnm1.am.ub.es]

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

0.35-m  $f/9.2$  Schmidt-Cassegrain + CCD

UCAC-2

2013 WT<sub>67</sub>, 8, 2, 1; (285944), 3, 1, 0; [11, 2, 0\*, 2014/08/26–2014/08/27]

**012 Uccle**

T. Pauwels, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels,

Belgium [Thierry.Pauwels@oma.be] (2)

2010 SH<sub>30</sub>, 6, 1, 0; [6, 1, 0\*, 2006/11/28]

**017 Hoher List**

E. W. Elst, Koninklijke Sterrenwacht van België, Ringlaan 3, B-1180 Brussels,

Belgium [Eric.Elst@oma.be]

1-m reflector + CCD, 0.15-m  $f/10.0$  refractor + CCD

USNO-A2.0

2005 TS<sub>68</sub>, 2, 1, 0; [2, 1, 0\*, 2003/02/25]

**033 Karl Schwarzschild Observatory, Tautenburg**

B. Stecklum, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg,

Germany [stecklum@tls-tautenburg.de]

1.34-m  $f/4$  Schmidt + CCD

GSC-2.3

2014 OR<sub>392</sub>, 9, 1, 0; 2014 QM<sub>295</sub>, 4, 1, 0; 2014 QN<sub>295</sub>, 4, 1, 0; 2014 QU<sub>295</sub>, 4, 1, 0; 2014 QZ<sub>295</sub>, 4, 1, 0; 2014 QD<sub>296</sub>, 4, 1, 0; 2014 QK<sub>296</sub>, 4, 1, 0; 2014 QL<sub>296</sub>, 4, 1, 0; 2014 QP<sub>296</sub>, 4, 1, 0; 2014 QQ<sub>296</sub>, 4, 1, 0; 2014 QR<sub>296</sub>, 6, 1, 0; 2014 QJ<sub>362</sub>, 2, 1, 0; 2014 QR<sub>362</sub>, 4, 1, 0; 2014 QT<sub>362</sub>, 4, 1, 0; 2014 QE<sub>365</sub>, 4, 1, 0; 2014 QK<sub>365</sub>, 8, 1, 0; 2014 QL<sub>390</sub>, 2, 1, 0; 2014 QM<sub>390</sub>, 6, 1, 0; [81, 18, 0\*, 2014/08/01–2014/08/31]

**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

(24239), 2, 1, 0; (48000), 2, 1, 0; (196990), 3, 1, 0; (259400), 3, 1, 0; (318481), 2, 1, 0; (318632), 6, 1, 0; (328241), 2, 1, 0; (369427), 4, 1, 0; [24, 8, 0\*, 2013/09/06–2013/09/10]

**071 NAO Rozhen**

A. Kostov, Institute of Astronomy, 72 Tsarigradsko Schosse Blvd., BG-11784 Sofia,

Bulgaria [akostov@astro.bas.bg]

Observer V. Radeva

Measurers V. Radeva, A. Kostov

0.50-m  $f/3.44$  Schmidt + CCD

USNO-B1.0

(660), 39, 1, 0; [39, 1, 0\*, 2014/06/10–2014/06/11]



**073 Bucharest**

G. Boça, Center for Astronomy and Space Sciences, Cutitul de Argint 5, R-75212 Bucharest, Romania [mstavinschi@imar.ro]

Observers E. Petrescu, A. Sonka, M. Popescu

0.30-m  $f/10$  Schmidt-Cassegrain + CCD +  $f/6.3$  focal reducer, 0.50-m  $f/15$  reflector + CCD, 0.30-m  $f/10$  Schmidt-Cassegrain + CCD +  $f/3.3$  focal reducer

USNO-B1.0, UCAC-4

(276049), 27, 2, 1; (285944), 60, 5, 5; [87, 2, 0\*, 2014/08/19–2014/09/01]

**089 Nikolaev**

O. V. Shulga, 1 Observatornaya vul., Nikolaev Astronomical Observatory, UA-54030 Mykolaiv, Ukraine [avshulga@mail.ru] (2)

Observers Y. Sybiryakova, Y. Kozryyev, N. Kulichenko, V. Vovk

Measurers Y. Sybiryakova, O. V. Shulga

0.5-m  $f/6.0$  Maksutov + CCD

UCAC-4

2000 PN<sub>8</sub>, 16, 2, 3; 2014 OX<sub>299</sub>, 4, 1, 0; 2014 PL<sub>51</sub>, 7, 1, 0; 2014 PA<sub>59</sub>, 4, 1, 0; 2014 PO<sub>59</sub>, 10, 1, 0; 2014 PT<sub>59</sub>, 17, 1, 0; (163132), 10, 1, 0; (250458), 8, 1, 0; (276049), 10, 1, 0; (333578), 19, 1, 0; [105, 10, 0\*, 2014/08/11–2014/08/30]

**094 Simeis**

E. Bakanas, E. Bakanas, 48 Pyatnitskaya St. 119017, Moscow, Russia [karme@yandex.ru] (5)

Observers I. Nikolenko, S. Barabanov, S. Kryuchkov, E. Bakanas

1.0-m  $f/5.2$  reflector + CCD

USNO-B1.0

2008 AE<sub>112</sub>, 3, 1, 0; 2014 MH<sub>64</sub>, 3, 1, 0; 2014 PT<sub>58</sub>, 2, 1, 0; (127388), 2, 1, 0; [10, 4, 0\*, 2014/07/31–2014/08/07]

**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]

Observer P. Bacci

Measurers P. Bacci, L. Tesi, G. Fagioli

0.60-m  $f/4$  reflector + CCD

UCAC-4

2001 SX<sub>111</sub>, 3, 1, 0; 2007 TP<sub>105</sub>, 3, 1, 0; 2010 PK<sub>9</sub>, 3, 1, 0; 2014 GP<sub>49</sub>, 3, 1, 0; 2014 MW<sub>20</sub>, 3, 1, 0; 2014 MP<sub>24</sub>, 3, 1, 0; 2014 OO<sub>59</sub>, 3, 1, 0; 2014 PS<sub>59</sub>, 6, 2, 3; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PW<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 PY<sub>67</sub>, 3, 1, 0; 2014 QR<sub>2</sub>, 3, 1, 0; 2014 QO<sub>33</sub>, 3, 1, 0; 2014 QT<sub>168</sub>, 4, 1, 0; 2014 QV<sub>168</sub>, 2, 1, 0; 2014 QW<sub>168</sub>, 3, 1, 0; 2014 QU<sub>169</sub>, 3, 1, 0; 2014 QQ<sub>266</sub>, 3, 1, 0; 2014 QU<sub>295</sub>, 3, 1, 0; 2014 QK<sub>296</sub>, 2, 1, 0; 2014 QE<sub>365</sub>, 3, 1, 0; (609), 3, 1, 0; (4113), 3, 1, 0; (7481), 3, 1, 0; (16766), 3, 1, 0; (24746), 3, 1, 0; (26409), 3, 1, 0; (29967), 3, 1, 0; (35110), 3, 1, 0; (50140), 3, 1, 0; (60850), 2, 1, 0; (69719), 3, 1, 0; (72081), 2, 1, 0; (72230), 2, 1, 0; (73119), 3, 1, 0; (96366), 2, 1, 0; (100496), 3, 1, 0; (108154), 2, 1, 0; (121891), 2, 1, 0; (139441), 2, 1, 0; (160713), 3, 1, 0; (163818), 3, 1, 0; (166951), 3, 1, 0; (167740), 2, 1, 0; (167766), 2, 1, 0; (171562), 5, 1, 0; (176998), 3, 1, 0; (184649), 3, 1, 0; (185064), 3, 1, 0; (189957), 3, 1, 0; (219106), 3, 1, 0; (225282), 6, 1, 0; (247065), 3, 1, 0; (247543), 6, 1, 0; (249529), 3, 1, 0; (250206), 3, 1, 0; (259413), 3, 1, 0; (260999), 2, 1, 0; (296656), 3, 1, 0; (316791), 3, 1, 0; (317397), 5, 1, 0; (320184), 2, 1, 0; (324217), 3, 1, 0; (333578), 6, 2, 1; (356337), 3, 1, 0; (399353), 3, 1, 0; (401560), 2, 1, 0; [207, 68, 0\*, 2007/05/13–2014/08/30]

**106 Črni Vrh**

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

Observers J. Skvarč, B. Mikuž, S. Matičič, J. Vales, H. Mikuž

0.6-m  $f/3.3$  Deltagraph + CCD

UCAC-2

2005 WJ<sub>160</sub>, 4, 1, 0; 2014 BA<sub>23</sub>, 3, 1, 0; 2014 JD<sub>61</sub>, 4, 1, 0; 2014 LD<sub>23</sub>, 4, 1, 0; 2014 MV<sub>62</sub>, 4, 1, 0; 2014 NL<sub>25</sub>, 4, 1, 0; 2014 QD<sub>166</sub>, 12, 3, 2; 2014 QK<sub>376</sub>, 4, 1, 0; 2014 QK<sub>383</sub>, 4, 1, 0; (129064), 4, 1, 0; (147310), 4, 1, 0; (286958), 4, 1, 0; (292343), 4, 1, 0; (367635), 4, 1, 0; (401954), 4, 1, 0; (403130), 4, 1, 0; [71, 16, 0\*, 2007/08/06–2014/08/30]

**113 Volkssternwarte Drebach, Schoenbrunn**

G. Lehmann, Persterstrasse 6h, D-09430 Drebach, Germany

[g.l@kleinplanetenseite.de]

0.5-m  $f/4.6$  reflector + CCD

UCAC-4

2007 YD<sub>70</sub>, 2, 1, 0; 2009 SJ<sub>98</sub>, 3, 1, 0; 2014 QM<sub>295</sub>, 3, 1, 0; 2014 QQ<sub>295</sub>, 2, 1, 0; (15449), 3, 1, 0; (365356), 3, 1, 0; [16, 6, 0\*, 2014/08/27]

**114 Engelhardt Observatory, Zelenchukskaya Station**

T. V. Kryachko, University Astronomical Station, Lenina 41, Zelenchukskaya, 357140 Karachaevo-Cherkessia Republic, Russia [timur@sao.stavropol.su]

0.40-m  $f/5$  camera

2010 TP<sub>81</sub>, 2, 1, 0; 2014 HX<sub>180</sub>, 5, 1, 0; 2014 MN<sub>4</sub>, 3, 1, 0; 2014 MB<sub>7</sub>, 5, 1, 0; 2014 NF<sub>24</sub>, 3, 1, 0; 2014 OK<sub>97</sub>, 3, 1, 0; 2014 ON<sub>343</sub>, 7, 1, 0; [28, 7, 0\*, 2010/07/19–2011/11/20]

**118 Modra**

A. Galád, AGO MFF UK, P.O. Box 4, SK-90001 Modra, Slovakia

[ago@fmph.uniba.sk]

Observers Š. Gajdoš, J. Tóth, P. Veres

0.6-m  $f/5.5$  reflector + CCD

UCAC-3

2014 NQ<sub>37</sub>, 3, 1, 0; 2014 PD<sub>58</sub>, 2, 1, 0; 2014 PS<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 4, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QV<sub>95</sub>, 6, 2, 5; 2014 QX<sub>168</sub>, 2, 1, 0; 2014 RP<sub>11</sub>, 2, 1, 0; (3648), 8, 3, 3; (4900), 8, 3, 14; (5525), 3, 1, 0; (22533), 4, 2, 3; (31593), 2, 1, 0; (36350), 3, 1, 0; (41137), 3, 1, 0; (69699), 3, 1, 0; (91969), 3, 1, 0; (182696), 2, 1, 0; (197276), 3, 1, 0; (246081), 2, 1, 0; (246151), 3, 1, 0; (317397), 2, 1, 0; (403788), 6, 1, 0; [80, 23, 0\*, 2011/10/02–2014/09/05]

**122 Pises Observatory**

J. M. Lopez, 5 Rue Meyrueis, F-34000 Montpellier, France

[jean.m.lopez2@wanadoo.fr]

Observers J. M. Lopez, J. H. Blanc

Measurer J. M. Lopez

0.40-m  $f/4.7$  reflector + CCD

USNO-SA2.0

2014 OG<sub>154</sub>, 3, 1, 0; [3, 1, 0\*, 2012/03/26]

**123 Byurakan**

K. Martynyuk-Lototsky, Astronomical observatory of LNU, 8 Kyrylo and Mefodiy Str., L'viv, 79005 Ukraine [langure@mail.ru]

Observer V. Nevski

0.4-m  $f/2.5$  reflector + CCD

UCAC-4, UCAC-3

2013 DW, 3, 1, 0; 2014 RH, 4, 1, 0; (105), 4, 1, 0; (13815), 4, 1, 0; (16256), 4, 1, 0; (16635), 4, 1, 0; (22187), 4, 1, 0; (25249), 4, 1, 0; (27172), 4, 1, 0; (31667), 4, 1, 0; (32239), 4, 1, 0; (39056), 4, 1, 0; (41202), 4, 1, 0; (41588), 4, 1, 0; (42291), 3, 1, 0; (42780), 4, 1, 0; (43093), 4, 1, 0; (46160), 4, 1, 0; (47358), 4, 1, 0; (47373), 3, 1, 0; (49431), 4, 1, 0; (51235), 3, 1, 0; (53203), 3, 1, 0; (55849), 3, 1, 0; (56092), 4, 1, 0; (60047), 3, 1, 0; (60075), 4, 1, 0; (65730), 4, 1, 0; (67155), 3, 1, 0; (67202), 4, 1, 0; (70379), 4, 1, 0; (71665), 3, 1, 0; (73820), 4, 1, 0; (78559), 3, 1, 0; (82348), 4, 1, 0; (84368), 4, 1, 0; (84745), 4, 1, 0; (87076), 4, 1, 0; (96574), 3, 1, 0; (99384), 4, 1, 0; (99875), 4, 1, 0; (100932), 4, 1, 0; (104700), 3, 1, 0; (104940), 4, 1, 0; (109230), 4, 1, 0; (110417), 3, 1, 0; (111079), 3, 1, 0; (112763), 4, 1, 0; (136289), 4, 1, 0; (137884), 3, 1, 0; (139216), 4, 1, 0; (139765), 4, 1, 0; (152782), 4, 1, 0; (154653), 2, 1, 0; (174895), 3, 1, 0; (179128), 4, 1, 0; (179179), 4, 1, 0; (188330), 4, 1, 0; (189256), 4, 1, 0; (200689), 3, 1, 0; (214362), 3, 1, 0; (215954), 4, 1, 0; (223307), 4, 1, 0; (223375), 4, 1, 0; (228617), 3, 1, 0; (241622), 3, 1, 0; (242091), 4, 1, 0; (248861), 4, 1, 0; (258265), 3, 1, 0;



(289219), 4, 1, 0; (314598), 4, 1, 0; (317571), 4, 1, 0; (350586), 3, 1, 0; (351654), 4, 1, 0; (402024), 4, 1, 0; [276, 75, 0\*, 2014/08/18–2014/09/02]

### 151 Eschenberg Observatory, Winterthur

M. Griesser, Breitenstrasse 2, CH-8542 Wiesendangen, Switzerland

[griesser@spectraweb.ch]

0.60-m  $f/3.8$  astrograph + CCD

UCAC-4

2008 OB<sub>9</sub>, 3, 1, 0; [3, 1, 0\*, 2014/08/30]

### 152 Moletai Astronomical Observatory

K. Černis, Institute of Theoretical Physics and Astronomy, Vilnius University,

Gostauto 12, LT-2000 Vilnius, Lithuania [cernis@itpa.lt]

Observers K. Černis, H. Selevicius

0.35-m  $f/3.5$  reflector + CCD

UCAC-2

2013 HX<sub>46</sub>, 6, 1, 0; 2014 LE<sub>10</sub>, 5, 1, 0; (30890), 2, 1, 0; (102367), 2, 1, 0; (107678), 2, 1, 0; (108198), 5, 2, 2; (113779), 4, 1, 0; (117920), 2, 1, 0; (120836), 3, 1, 0; (121006), 1, 1, 0; (121048), 6, 2, 2; (122650), 3, 1, 0; (123390), 3, 1, 0; (123575), 2, 1, 0; (124347), 3, 1, 0; (124422), 2, 1, 0; (129228), 3, 1, 0; (129411), 5, 2, 2; (129415), 3, 1, 0; (129872), 4, 1, 0; (130532), 6, 1, 0; (131646), 8, 1, 0; (131741), 3, 1, 0; (131786), 3, 1, 0; (135027), 5, 1, 0; (135185), 4, 1, 0; (136090), 2, 1, 0; (165311), 3, 1, 0; (165706), 4, 1, 0; (166542), 4, 1, 0; (168001), 5, 1, 0; (169700), 3, 1, 0; (170871), 3, 1, 0; (171048), 5, 1, 0; (171281), 4, 1, 0; (171293), 2, 1, 0; (197392), 5, 1, 0; (197487), 2, 1, 0; (200972), 2, 1, 0; (204488), 2, 1, 0; (204992), 1, 1, 0; (209222), 1, 1, 0; (209663), 2, 1, 0; (210459), 1, 1, 0; (404656), 3, 1, 0; [149, 45, 0\*, 2006/09/26–2011/09/27]

### 157 Frasso Sabino

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

Observers R. Haver, R. Gorelli

0.37-m  $f/6.85$  Cassegrain + CCD

UCAC-4

2014 KF<sub>91</sub>, 3, 1, 0; 2014 NE<sub>63</sub>, 6, 2, 5; 2014 OE<sub>300</sub>, 3, 1, 0; 2014 PL<sub>51</sub>, 4, 1, 0; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 5, 1, 0; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QN<sub>32</sub>, 3, 1, 0; 2014 QE<sub>33</sub>, 2, 1, 0; 2014 QO<sub>33</sub>, 4, 1, 0; 2014 QS<sub>168</sub>, 3, 1, 0; (15197), 5, 1, 0; (18463), 3, 1, 0; (21438), 4, 1, 0; (22848), 6, 1, 0; (22865), 3, 1, 0; (35370), 6, 1, 0; (64063), 2, 1, 0; (78334), 6, 1, 0; (93732), 3, 1, 0; (94604), 2, 1, 0; (96555), 3, 1, 0; (108513), 2, 1, 0; (111610), 2, 1, 0; (121307), 5, 1, 0; (138084), 6, 1, 0; (142806), 3, 1, 0; (158782), 3, 1, 0; (206341), 1, 1, 0; (208060), 2, 1, 0; (212732), 2, 1, 0; (217444), 2, 1, 0; (256838), 2, 1, 0; (267270), 3, 1, 0; (276049), 4, 1, 0; (277972), 2, 1, 0; (304892), 2, 1, 0; (333578), 5, 1, 0; [128, 38, 0\*, 2014/08/17–2014/08/31]

### 160 Castelmartini

E. Prosperi, Via Bartolini 127, I-51030 Castelmartini (PT), Italy

[e.prosperi@alice.it]

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

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

UCAC-4, PPMXL

1987 SF<sub>3</sub>, 11, 4, 7; 2003 EG<sub>16</sub>, 3, 1, 0; 2005 GP<sub>128</sub>, 6, 2, 1; 2005 OJ<sub>3</sub>, 9, 3, 16; 2008 OB<sub>9</sub>, 9, 3, 8; 2011 RZ, 6, 2, 1; 2013 WT<sub>67</sub>, 18, 6, 9; 2014 EZ<sub>48</sub>, 3, 1, 0; 2014 KV<sub>84</sub>, 3, 1, 0; 2014 NE<sub>63</sub>, 6, 2, 1; 2014 NA<sub>64</sub>, 9, 3, 2; 2014 OX<sub>299</sub>, 14, 4, 5; 2014 PL<sub>51</sub>, 6, 2, 4; 2014 PA<sub>59</sub>, 6, 2, 1; 2014 PR<sub>62</sub>, 6, 2, 1; 2014 QS<sub>168</sub>, 3, 1, 0; 2014 QV<sub>168</sub>, 5, 1, 0; 2014 QE<sub>362</sub>, 4, 1, 0; 2014 QF<sub>362</sub>, 5, 1, 0; 2014 QU<sub>363</sub>, 3, 1, 0; 2014 QP<sub>390</sub>, 5, 1, 0; 2014 RE<sub>11</sub>, 2, 1, 0; (4183), 3, 1, 0; (7236), 5, 2, 1; (7481), 6, 2, 1; (16636), 9, 3, 2; (16995), 3, 1, 0; (24443), 9, 3, 3; (35107), 6, 2, 11; (54686), 6, 2, 1; (68348), 12, 4, 4; (86819), 9, 3, 4; (87309), 9, 3, 4; (87311), 6, 2, 1; (90075), 9, 3, 8; (138847), 3, 1, 0; (142641), 3, 1, 0; (143624), 6, 2, 1; (159686), 3, 1, 0; (159857), 8, 3, 4; (163132), 3, 1, 0; (235086), 6, 2, 4; (243566), 18, 6, 22; (275611), 12, 4, 16; (276049), 13, 4, 16; (277127), 6, 2, 4; (277475), 4, 1, 0; (277616), 24, 8, 22; (285944), 9, 3, 5; (303174), 10, 4, 21; (317958), 3, 1, 0; (369984), 3, 1, 0; (399307), 6, 2, 1; [374, 53, 0\*, 2014/08/10–2014/09/02]

### 169 Airali Observatory

S. Puccini, Airali Observatory, Via Montegrappa 16, I-15030 Rosignano, Italy

[starfield@tin.it]

0.25-m Schmidt-Cassegrain + CCD

UCAC-2

(805), 2, 1, 0; (1498), 3, 1, 0; (1705), 5, 1, 0; [10, 3, 0\*, 2014/09/02]

### 194 Tivoli

W. Paech, Wiesenstrasse 13, D-30989 Gehrden, Germany [paech@ife.uni-hannover.de]

Observers W. Paech, D. Unbehaun

Measurers W. Paech, L. D. Schmadel, D. Unbehaun

0.13-m  $f/6.5$  refractor + CCD

GSC

2010 LV<sub>79</sub>, 4, 1, 0; 2010 LE<sub>81</sub>, 3, 1, 0; 2010 RA<sub>182</sub>, 2, 1, 0; 2011 BA<sub>25</sub>, 3, 1, 0; 2011 QP<sub>37</sub>, 7, 2, 1; 2011 QG<sub>95</sub>, 8, 2, 1; 2012 AP<sub>13</sub>, 3, 1, 0; 2013 AC<sub>21</sub>, 6, 2, 2; 2013 BA, 10, 2, 1; 2013 CZ<sub>45</sub>, 3, 1, 0; 2014 OD<sub>82</sub>, 3, 1, 0; 2014 OR<sub>85</sub>, 3, 1, 0; 2014 OB<sub>168</sub>, 3, 1, 0; 2014 OW<sub>311</sub>, 3, 1, 0; 2014 OO<sub>316</sub>, 3, 1, 0; 2014 OC<sub>356</sub>, 3, 1, 0; 2014 OV<sub>371</sub>, 3, 1, 0; 2014 PA<sub>65</sub>, 3, 1, 0; 2014 QD<sub>52</sub>, 2, 1, 0; 2014 QL<sub>66</sub>, 3, 1, 0; [78, 20, 0\*, 2014/07/20–2014/07/28]

### 198 Wildberg

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

[astrowild@astro-wildberg.de]

0.35-m  $f/3.1$  reflector + CCD

USNO-B1.0

2005 SY<sub>277</sub>, 3, 1, 0; 2007 RY<sub>4</sub>, 4, 1, 0; 2014 PQ<sub>65</sub>, 5, 1, 0; 2014 QP<sub>22</sub>, 4, 1, 0; 2014 QQ<sub>22</sub>, 5, 1, 0; 2014 QS<sub>22</sub>, 5, 1, 0; 2014 QU<sub>22</sub>, 5, 1, 0; 2014 QW<sub>22</sub>, 5, 1, 0; (329), 4, 1, 0; (32778), 3, 1, 0; (112331), 3, 1, 0; (250005), 8, 1, 0; (252320), 3, 1, 0; (261208), 3, 1, 0; (279517), 3, 1, 0; (315333), 6, 1, 0; (317736), 3, 1, 0; (358203), 4, 1, 0; [76, 18, 0\*, 2014/08/22–2014/08/23]

### 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-4

2014 NA<sub>64</sub>, 2, 1, 0; 2014 PR<sub>62</sub>, 2, 1, 0; 2014 QT<sub>362</sub>, 2, 1, 0; 2014 QF<sub>390</sub>, 2, 1, 0; 2014 QM<sub>390</sub>, 2, 1, 0; 2014 RK, 2, 1, 0; 2014 RC<sub>11</sub>, 2, 1, 0; (15742), 2, 1, 0; (54686), 2, 1, 0; (87309), 2, 1, 0; (155476), 2, 1, 0; (181497), 2, 1, 0; (276049), 2, 1, 0; (399815), 2, 1, 0; [28, 14, 0\*, 2014/08/28–2014/09/03]

### 204 Schiaparelli Observatory

F. Bellini, via A. del Sarto 3, I-21100 Varese, Italy [lucabuzzi.204@gmail.com]

Observer L. Buzzi

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

PPMXL, UCAC-4

2000 PN<sub>8</sub>, 3, 1, 0; 2001 QB<sub>34</sub>, 2, 1, 0; 2006 BB<sub>27</sub>, 3, 1, 0; 2006 TS<sub>7</sub>, 3, 1, 0; 2006 VF<sub>85</sub>, 2, 1, 0; 2008 OS<sub>9</sub>, 2, 1, 0; 2008 TQ<sub>2</sub>, 3, 1, 0; 2010 KR<sub>10</sub>, 2, 1, 0; 2010 PY<sub>22</sub>, 6, 2, 3; 2010 SL<sub>13</sub>, 3, 1, 0; 2011 CQ<sub>4</sub>, 2, 1, 0; 2011 SC<sub>5</sub>, 2, 1, 0; 2011 ST<sub>232</sub>, 3, 1, 0; 2012 MR<sub>7</sub>, 2, 1, 0; 2013 PR<sub>74</sub>, 2, 1, 0; 2014 KE<sub>46</sub>, 2, 1, 0; 2014 KV<sub>84</sub>, 3, 1, 0; 2014 KF<sub>91</sub>, 2, 1, 0; 2014 MQ<sub>60</sub>, 2, 1, 0; 2014 NE<sub>39</sub>, 4, 1, 0; 2014 NL<sub>52</sub>, 2, 1, 0; 2014 OG<sub>1</sub>, 8, 2, 4; 2014 OA<sub>2</sub>, 3, 1, 0; 2014 OF<sub>300</sub>, 3, 1, 0; 2014 OZ<sub>337</sub>, 5, 1, 0; 2014 OE<sub>338</sub>, 2, 1, 0; 2014 OT<sub>338</sub>, 3, 1, 0; 2014 QN<sub>20</sub>, 2, 1, 0; (5547), 3, 1, 0; (24817), 3, 1, 0; (32835), 3, 1, 0; (64508), 3, 1, 0; (72750), 3, 1, 0; (81730), 2, 1, 0; (100817), 2, 1, 0; (112338), 2, 1, 0; (159450), 2, 1, 0; (205335), 3, 1, 0; (250145), 2, 1, 0; (323514), 2, 1, 0; (365674), 2, 1, 0; (366050), 2, 1, 0; (381906), 5, 1, 0; (401257), 2, 1, 0; (402983), 3, 1, 0; [125, 45, 0\*, 2013/08/10–2014/09/01]

### 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-15



2014 RC, 8, 2, 1; (276049), 6, 2, 1; [14, 2, 0\*, 2014/09/05–2014/09/07]

### 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

2013 WT<sub>67</sub>, 5, 1, 0; (1943), 3, 1, 0; (9588), 3, 1, 0; (143624), 5, 1, 0; (277616), 3, 1, 0; (285944), 10, 2, 2; (333578), 3, 1, 0; [32, 7, 0\*, 2014/08/17–2014/09/02]

### 238 Grorudalen Optical Observatory

O. Trondal, Hogtunv. 2B, Oslo, Norway [otrondal@online.no]

0.61-m Cassegrain + CCD

UCAC-2

(132), 3, 1, 0; (391), 13, 4, 17; (1306), 2, 1, 0; (1509), 5, 2, 6; (1922), 9, 3, 11; (2078), 2, 1, 0; (2382), 10, 3, 13; (4388), 10, 4, 16; (4558), 11, 4, 13; (6500), 2, 1, 0; (7369), 3, 1, 0; (11277), 2, 1, 0; (13018), 2, 1, 0; (13138), 2, 1, 0; (16659), 5, 2, 4; (16666), 2, 1, 0; (18890), 2, 1, 0; (19261), 6, 2, 6; (31843), 2, 1, 0; (54857), 3, 1, 0; (67537), 3, 1, 0; (86962), 2, 1, 0; (105061), 2, 1, 0; (110323), 2, 1, 0; (276049), 9, 3, 7; (333578), 3, 1, 0; [117, 26, 0\*, 2014/08/02–2014/08/21]

### 244 Geocentric Occultation Observation

D. Herald, 3 Lupin Pl., Murrumbateman, NSW 2582, Australia

[DRHerald@bigpond.net.au]

OBS J. Bradshaw, J. Broughton, D. Caton, S. Conard, C. Ellington, E. Frappa, D. Herald, Y. Ikari, M. Ishida, E. Iverson, R. Jones, K. Kageyama, S. Kerr, A. Klotz, B. Loader, P. Maley, G. McKay, S. Messner, G. Mroz, M. Noble, D. Oesper, M. Owada, H. Rutten

Observers F. Van Den Abbeel, L. Abe, H. Abramson, K. Abramson, J. Abril, R. Aikawa, D. Albanese, B. Allen, P. Anderson, W. Anderson, R. Apitzsch, L. Arnold, C. Arrowsmith, R. Asmus, T. Atwood, M. Audejean, J. Bardecker, J. Barton, P. Baruffetti, S. Basso, A. Batier, J. Bean, P. Bendjoya, B. Bernardi, J. Berthier, M. Bigi, L. Blommers, S. Bolzoni, G. Bonatti, R. Boninsegna, R. Bourtembourg, G. Brabant, J. Bradshaw, E. Bredner, D. Breit, E. Briggs, J. Brooks, J. Broughton, H. Bulder, P. Burley, D. Calmels, T. Campbell, J. Castellani, P. De Cat, D. Caton, S. Conard, C. Costa, W. Costa, G. Dangl, M. Delincak, P. Delincak, F. Delucchi, P. Denyer, H. Devi, H. Devil, H. Devillepoix, M. Devogele, a. Dobson, A. Dobson, M. Domingues, D. Dunham, J. Dunham, A. Eberle, E. Edens, P. Van Den Eijnde, C. Ellington, O. Farago, Y. Fernandez, A. Figer, E. Frappa, A. Gabel, B. Gaehrken, J. Garlitz, J. Garliz, D. Gault, T. George, H. Gillespie, W. Gimple, H. Gonzalez, M. Good, Z. Gray, K. Green, H. De Groot, C. Gros, C. Gualdoni, K. Halir, W. Hanna, B. Harris, A. Hashimoto, T. Haymes, C. Heidmann, D. Herald, S. Herchak, G. Huys, M. Ida, R. Iglesias, Y. Ikari, M. Ishida, M. Iten, T. Ito, E. Iverson, T. Janik, R. Jansen, A. Javaheri, R. Jones, J. Juan, M. Kapka, H. Karasaki, K. Kasazumi, W. Keel, S. Kerr, K. Kitazaki, O. Kloes, A. Klotz, M. Kohl, G. Krannich, M. Laas-Bourez, J. Lamadrid, J. Lecacheux, A. Leroy, P. Lindner, A. Ling, B. Loader, N. Lust, P. Maley, J. Manek, A. Manna, S. Manna, H. Mariey, P. Martorell, A. Maury, M. Mazzoni, J. McClain, G. McKay, C. McPartlin, S. Meister, F. Melillo, O. Midtskogen, J. Milner, A. Mohamadi, Z. Moravec, M. Murin, R. Naves, J. Newman, W. Nobel, J. Normand, R. Nugent, D. Oesper, J. Ohlert, I. Ordonez, A. Ossola, M. Owada, H. Pallares, T. Pauwels, H. Pavlov, C. Peguet, R. Pereira, C. Perello, G. Piehler, A. Pratt, J. De Queiroz, H. Rahmani, S. Razemon, M. Rieu, Y. Rieugnie, J. Rivet, W. Rothe, J. Rovira, D. Rowley, R. Sauder,

G. Sautot, A. Scheck, J. Schenker, C. Schnabel, A. Selva, E. Simonson, R. Simonson, N. Smith, M. Sparrenberger, S. Sposetti, R. Sumner, A. Svidzinski, T. Swift, Y. Takamura, J. Talbot, R. Tatum, T. Terada, W. Thomas, H. Tomioka, S. Uchiyama, S. Uehara, F. Vachier, F. Vaissiere, G. Vaudescal, E. Vauthrin, K. Vaz, R. Venable, D. Verilhac, D. Vernet, J. Vilar, P. Vingerhoets, C. Wagoner, H. Watanabe, D. Watson, J. Winkel, A. Yaeza, H. Yamamura, H. Yoshihara, M. Zakrin

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

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

Hip-2

(9), 1, 1, 0; (33), 1, 1, 0; (45), 1, 1, 0; (51), 1, 1, 0; (56), 2, 1, 0; (59), 1, 1, 0; (61), 1, 1, 0; (62), 1, 1, 0; (65), 1, 1, 0; (67), 1, 1, 0; (72), 1, 1, 0; (73), 1, 1, 0; (80), 1, 1, 0; (82), 1, 1, 0; (87), 1, 1, 0; (95), 1, 1, 0; (98), 1, 1, 0; (107), 1, 1, 0; (114), 1, 1, 0; (120), 2, 2, 31; (134), 1, 1, 0; (137), 1, 1, 0; (146), 1, 1, 0; (165), 1, 1, 0; (179), 1, 1, 0; (188), 1, 1, 0; (190), 1, 1, 0; (191), 1, 1, 0; (198), 1, 1, 0; (223), 1, 1, 0; (238), 2, 2, 37; (241), 1, 1, 0; (301), 1, 1, 0; (313), 1, 1, 0; (334), 1, 1, 0; (345), 1, 1, 0; (360), 1, 1, 0; (362), 1, 1, 0; (372), 1, 1, 0; (377), 1, 1, 0; (381), 1, 1, 0; (386), 2, 2, 9; (392), 1, 1, 0; (442), 1, 1, 0; (451), 1, 1, 0; (466), 1, 1, 0; (467), 1, 1, 0; (471), 1, 1, 0; (472), 1, 1, 0; (505), 1, 1, 0; (506), 1, 1, 0; (508), 1, 1, 0; (514), 1, 1, 0; (530), 1, 1, 0; (537), 1, 1, 0; (545), 1, 1, 0; (547), 1, 1, 0; (552), 1, 1, 0; (611), 1, 1, 0; (626), 1, 1, 0; (740), 1, 1, 0; (776), 1, 1, 0; (788), 1, 1, 0; (834), 1, 1, 0; (844), 1, 1, 0; (886), 1, 1, 0; (891), 1, 1, 0; (912), 1, 1, 0; (914), 1, 1, 0; (924), 1, 1, 0; (949), 1, 1, 0; (977), 1, 1, 0; (978), 1, 1, 0; (983), 1, 1, 0; (1021), 1, 1, 0; (1075), 1, 1, 0; (1089), 1, 1, 0; (1177), 1, 1, 0; (1242), 1, 1, 0; (1257), 1, 1, 0; (1258), 1, 1, 0; (2562), 1, 1, 0; (2797), 1, 1, 0; (2907), 1, 1, 0; (6862), 1, 1, 0; (8459), 1, 1, 0; (13832), 1, 1, 0; (16368), 1, 1, 0; (28978), 1, 1, 0; [93, 89, 0\*, 2014/01/01–2014/08/05]

### 260 Siding Spring-DSS

R. Matson, 8 Merano Ct., Newport Coast, CA 92657, U.S.A. [matsonr@saic.com]

(15)

Measurer R. Matson

1.2-m Schmidt

USNO-A2.0

2014 KE<sub>91</sub>, 2, 1, 0; [2, 1, 0\*, 1982/07/17]

### 290 Mt. Graham

M. Holman, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. [mholman@cfa.harvard.edu] (1)

R. P. Boyle, Vatican Observatory Research Group, Steward Observatory, Tucson, AZ 85721, U.S.A. [rpboyle@mac.com] (5)

Observers M. Holman, R. P. Boyle

Measurers M. Holman, K. Černis

{1} 2009 RO<sub>15</sub>, 2, 1, 0; [2, 1, 0\*, 2007/04/24]

{5} 2013 HP<sub>38</sub>, 3, 1, 0; 2014 MF<sub>54</sub>, 8, 1, 0; [11, 2, 0\*, 2012/04/19–2012/04/22]

### 291 LPL/Spacewatch II

R. S. McMillan, Space Sciences Building, University of Arizona, Tucson, AZ 85721, U.S.A. [bob@lpl.arizona.edu]

Observers T. H. Bressi, R. A. Mastaler, A. F. Tubbiolo, R. S. McMillan, J. V. Scotti

1.8-m  $f/2.7$  reflector + CCD

USNO-B1.0

2001 RB<sub>12</sub>, 3, 1, 0; 2001 YC<sub>4</sub>, 3, 1, 0; 2001 YY<sub>35</sub>, 3, 1, 0; 2002 CZ<sub>58</sub>, 3, 1, 0; 2002 CM<sub>128</sub>, 3, 1, 0; 2002 QQ<sub>40</sub>, 3, 1, 0; 2002 RS<sub>164</sub>, 3, 1, 0; 2002 SL<sub>9</sub>, 3, 1, 0; 2002 TM<sub>149</sub>, 3, 1, 0; 2003 SX<sub>359</sub>, 3, 1, 0; 2003 SQ<sub>360</sub>, 3, 1, 0; 2003 UF<sub>299</sub>, 9, 1, 0; 2003 WL<sub>27</sub>, 3, 1, 0; 2004 RV<sub>52</sub>, 3, 1, 0; 2004 RU<sub>153</sub>, 3, 1, 0; 2004 RF<sub>293</sub>, 3, 1, 0; 2004 TQ<sub>155</sub>, 3, 1, 0; 2004 VK<sub>1</sub>, 2, 1, 0; 2005 AA<sub>17</sub>, 3, 1, 0; 2005 KQ<sub>7</sub>, 3, 1, 0; 2005 QB<sub>16</sub>, 3, 1, 0; 2005 QQ<sub>87</sub>, 3, 1, 0; 2005 SX<sub>4</sub>, 2, 1, 0; 2006 AO<sub>34</sub>, 3, 1, 0; 2006 AK<sub>40</sub>, 3, 1, 0; 2006 CB<sub>53</sub>, 3, 1, 0; 2006 DN<sub>142</sub>, 3, 1, 0; 2006 HM<sub>54</sub>, 3, 1, 0; 2006 QR<sub>89</sub>, 2, 1, 0; 2006 SE<sub>343</sub>, 3, 1, 0; 2006 TL<sub>123</sub>, 3, 1, 0; 2006 VD<sub>13</sub>, 3, 1, 0; 2006 WP<sub>149</sub>, 3, 1, 0; 2007 ED<sub>31</sub>, 3, 1, 0; 2007 HE<sub>49</sub>, 3, 1, 0; 2007 PB<sub>42</sub>, 3, 1, 0; 2007 RK<sub>295</sub>, 3, 1, 0; 2007 TQ<sub>28</sub>, 3, 1, 0; 2007 UO<sub>84</sub>, 3, 1,



0; 2007 UR<sub>103</sub>, 3, 1, 0; 2007 UR<sub>122</sub>, 3, 1, 0; 2007 YX<sub>40</sub>, 3, 1, 0; 2008 CX<sub>36</sub>, 3, 1, 0; 2008 CG<sub>127</sub>, 6, 1, 0; 2008 EE<sub>100</sub>, 3, 1, 0; 2008 JY<sub>44</sub>, 3, 1, 0; 2008 OO, 3, 1, 0; 2008 UL<sub>152</sub>, 3, 1, 0; 2009 KJ<sub>13</sub>, 3, 1, 0; 2009 ON<sub>14</sub>, 2, 1, 0; 2009 SB<sub>33</sub>, 3, 1, 0; 2009 SZ<sub>76</sub>, 3, 1, 0; 2009 ST<sub>114</sub>, 3, 1, 0; 2009 SS<sub>126</sub>, 3, 1, 0; 2009 UF<sub>70</sub>, 3, 1, 0; 2009 WJ<sub>94</sub>, 3, 1, 0; 2010 EM<sub>127</sub>, 3, 1, 0; 2010 GV<sub>5</sub>, 3, 1, 0; 2010 LU<sub>14</sub>, 3, 1, 0; 2010 OP<sub>29</sub>, 3, 1, 0; 2010 OB<sub>101</sub>, 3, 1, 0; 2010 PK<sub>9</sub>, 2, 1, 0; 2010 RP<sub>81</sub>, 3, 1, 0; 2010 RH<sub>84</sub>, 3, 1, 0; 2010 RO<sub>103</sub>, 3, 1, 0; 2010 SS<sub>30</sub>, 3, 1, 0; 2010 TM<sub>97</sub>, 3, 1, 0; 2010 TH<sub>108</sub>, 3, 1, 0; 2010 UP<sub>75</sub>, 3, 1, 0; 2010 UY<sub>101</sub>, 3, 1, 0; 2010 VY<sub>17</sub>, 3, 1, 0; 2010 VE<sub>42</sub>, 3, 1, 0; 2010 VM<sub>199</sub>, 3, 1, 0; 2010 VT<sub>208</sub>, 3, 1, 0; 2010 VY<sub>210</sub>, 3, 1, 0; 2010 WF<sub>47</sub>, 6, 1, 0; 2011 BG, 3, 1, 0; 2011 ON<sub>45</sub>, 3, 1, 0; 2011 RG<sub>1</sub>, 3, 1, 0; 2011 SF<sub>61</sub>, 3, 1, 0; 2011 UV<sub>282</sub>, 3, 1, 0; 2011 WW<sub>81</sub>, 3, 1, 0; 2012 BT<sub>55</sub>, 3, 1, 0; 2012 BR<sub>98</sub>, 3, 1, 0; 2012 CA<sub>16</sub>, 3, 1, 0; 2012 DG<sub>45</sub>, 3, 1, 0; 2012 DO<sub>54</sub>, 2, 1, 0; 2012 DL<sub>90</sub>, 3, 1, 0; 2012 TG<sub>123</sub>, 3, 1, 0; 2012 XZ<sub>119</sub>, 3, 1, 0; 2013 AQ<sub>21</sub>, 3, 1, 0; 2013 BC<sub>59</sub>, 3, 1, 0; 2013 CJ<sub>181</sub>, 3, 1, 0; 2013 CA<sub>209</sub>, 3, 1, 0; 2013 DW<sub>11</sub>, 3, 1, 0; 2013 GC<sub>116</sub>, 3, 1, 0; 2013 HX<sub>46</sub>, 3, 1, 0; 2013 HY<sub>57</sub>, 3, 1, 0; 2013 HT<sub>63</sub>, 3, 1, 0; 2013 HB<sub>80</sub>, 6, 2, 947; 2013 HH<sub>81</sub>, 3, 1, 0; 2013 HT<sub>119</sub>, 3, 1, 0; 2013 HQ<sub>146</sub>, 3, 1, 0; 2013 JB<sub>51</sub>, 3, 1, 0; 2013 JG<sub>54</sub>, 3, 1, 0; 2013 JJ<sub>55</sub>, 3, 1, 0; 2013 JU<sub>60</sub>, 3, 1, 0; 2013 JS<sub>61</sub>, 3, 1, 0; 2013 KN<sub>6</sub>, 2, 1, 0; 2013 PR<sub>74</sub>, \*, 6, 2, 1; 2013 XS<sub>3</sub>, 2, 1, 0; 2014 DN<sub>29</sub>, 3, 1, 0; 2014 EB<sub>36</sub>, 3, 1, 0; 2014 FT<sub>44</sub>, 3, 1, 0; 2014 GO<sub>39</sub>, 3, 1, 0; 2014 GN<sub>49</sub>, 3, 1, 0; 2014 HQ<sub>15</sub>, 3, 1, 0; 2014 HA<sub>184</sub>, 3, 1, 0; 2014 HK<sub>192</sub>, 3, 1, 0; 2014 HQ<sub>194</sub>, 3, 1, 0; 2014 JH<sub>57</sub>, 3, 1, 0; 2014 JD<sub>61</sub>, 3, 1, 0; 2014 JN<sub>65</sub>, 3, 1, 0; 2014 JV<sub>68</sub>, 3, 1, 0; 2014 JU<sub>69</sub>, 3, 1, 0; 2014 JN<sub>70</sub>, 3, 1, 0; 2014 JX<sub>75</sub>, 3, 1, 0; 2014 KD<sub>18</sub>, 3, 1, 0; 2014 KT<sub>27</sub>, 3, 1, 0; 2014 KU<sub>40</sub>, 3, 1, 0; 2014 KJ<sub>53</sub>, 3, 1, 0; 2014 KN<sub>76</sub>, 2, 1, 0; 2014 KN<sub>80</sub>, 3, 1, 0; 2014 KG<sub>87</sub>, 3, 1, 0; 2014 KB<sub>91</sub>, 3, 1, 0; 2014 KJ<sub>94</sub>, 3, 1, 0; 2014 KJ<sub>101</sub>, 3, 1, 0; 2014 LL<sub>9</sub>, 3, 1, 0; 2014 LX<sub>10</sub>, 3, 1, 0; 2014 LH<sub>15</sub>, 3, 1, 0; 2014 LG<sub>19</sub>, 3, 1, 0; 2014 LS<sub>26</sub>, 3, 1, 0; 2014 LY<sub>26</sub>, 3, 1, 0; 2014 MM<sub>5</sub>, 3, 1, 0; 2014 ME<sub>13</sub>, 3, 1, 0; 2014 ME<sub>18</sub>, 3, 1, 0; 2014 MG<sub>19</sub>, 3, 1, 0; 2014 MX<sub>37</sub>, 3, 1, 0; 2014 MN<sub>38</sub>, 3, 1, 0; 2014 MC<sub>55</sub>, 2, 1, 0; 2014 MW<sub>58</sub>, 3, 1, 0; 2014 MS<sub>59</sub>, 3, 1, 0; 2014 ME<sub>69</sub>, 3, 1, 0; 2014 NY<sub>1</sub>, 3, 1, 0; 2014 NH<sub>17</sub>, 3, 1, 0; 2014 NF<sub>20</sub>, 3, 1, 0; 2014 NF<sub>31</sub>, 3, 1, 0; 2014 NF<sub>33</sub>, 3, 1, 0; 2014 NE<sub>39</sub>, 2, 1, 0; 2014 NO<sub>44</sub>, 6, 2, 11; 2014 NE<sub>55</sub>, 3, 1, 0; 2014 NG<sub>56</sub>, 3, 1, 0; 2014 NE<sub>59</sub>, 3, 1, 0; 2014 NN<sub>61</sub>, 3, 1, 0; 2014 NP<sub>62</sub>, 3, 1, 0; 2014 NE<sub>64</sub>, 2, 1, 0; 2014 NG<sub>64</sub>, 3, 1, 0; 2014 OD<sub>2</sub>, 3, 1, 0; 2014 OD<sub>3</sub>, 3, 1, 0; 2014 OT<sub>13</sub>, 3, 1, 0; 2014 OF<sub>16</sub>, 3, 1, 0; 2014 OA<sub>18</sub>, 3, 1, 0; 2014 OA<sub>19</sub>, 3, 1, 0; 2014 OA<sub>24</sub>, 3, 1, 0; 2014 OE<sub>24</sub>, 3, 1, 0; 2014 OF<sub>37</sub>, 3, 1, 0; 2014 OE<sub>44</sub>, 3, 1, 0; 2014 OT<sub>44</sub>, 3, 1, 0; 2014 OB<sub>63</sub>, 3, 1, 0; 2014 OG<sub>65</sub>, 3, 1, 0; 2014 OX<sub>65</sub>, 3, 1, 0; 2014 OW<sub>70</sub>, 3, 1, 0; 2014 OP<sub>84</sub>, 3, 1, 0; 2014 OO<sub>90</sub>, 3, 1, 0; 2014 OU<sub>103</sub>, 3, 1, 0; 2014 OA<sub>107</sub>, 3, 1, 0; 2014 OS<sub>111</sub>, 3, 1, 0; 2014 OT<sub>111</sub>, 3, 1, 0; 2014 OJ<sub>112</sub>, 3, 1, 0; 2014 OO<sub>114</sub>, 3, 1, 0; 2014 OD<sub>116</sub>, 3, 1, 0; 2014 OQ<sub>133</sub>, 3, 1, 0; 2014 OW<sub>137</sub>, 3, 1, 0; 2014 OV<sub>143</sub>, 3, 1, 0; 2014 OF<sub>145</sub>, 3, 1, 0; 2014 OM<sub>146</sub>, 3, 1, 0; 2014 OO<sub>151</sub>, 3, 1, 0; 2014 OU<sub>155</sub>, 3, 1, 0; 2014 OA<sub>156</sub>, 3, 1, 0; 2014 OZ<sub>168</sub>, 3, 1, 0; 2014 OL<sub>174</sub>, 3, 1, 0; 2014 OP<sub>188</sub>, 3, 1, 0; 2014 OG<sub>199</sub>, 3, 1, 0; 2014 OH<sub>199</sub>, 3, 1, 0; 2014 OW<sub>209</sub>, 6, 2, 17; 2014 OM<sub>214</sub>, 3, 1, 0; 2014 OR<sub>215</sub>, 3, 1, 0; 2014 OK<sub>222</sub>, 3, 1, 0; 2014 OS<sub>230</sub>, 3, 1, 0; 2014 OR<sub>240</sub>, 3, 1, 0; 2014 OF<sub>245</sub>, 3, 1, 0; 2014 OP<sub>253</sub>, 3, 1, 0; 2014 OH<sub>259</sub>, 3, 1, 0; 2014 OB<sub>277</sub>, 3, 1, 0; 2014 OE<sub>277</sub>, 3, 1, 0; 2014 OE<sub>300</sub>, 5, 2, 4241; 2014 OG<sub>300</sub>, 3, 1, 0; 2014 OU<sub>305</sub>, 3, 1, 0; 2014 OB<sub>311</sub>, 3, 1, 0; 2014 OR<sub>315</sub>, 3, 1, 0; 2014 OO<sub>316</sub>, 3, 1, 0; 2014 OS<sub>323</sub>, 3, 1, 0; 2014 OJ<sub>327</sub>, 3, 1, 0; 2014 OP<sub>329</sub>, 3, 1, 0; 2014 OY<sub>330</sub>, 3, 1, 0; 2014 OM<sub>334</sub>, 6, 2, 2038; 2014 OD<sub>338</sub>, 3, 1, 0; 2014 OH<sub>338</sub>, 3, 1, 0; 2014 OM<sub>339</sub>, 3, 1, 0; 2014 ON<sub>339</sub>, 3, 1, 0; 2014 OE<sub>341</sub>, 3, 1, 0; 2014 OK<sub>342</sub>, 3, 1, 0; 2014 OP<sub>344</sub>, 5, 2, 3; 2014 OZ<sub>344</sub>, 9, 3, 1756; 2014 OT<sub>391</sub>, 3, 1, 0; 2014 OU<sub>391</sub>, 3, 1, 0; 2014 OV<sub>391</sub>, 6, 2, 5; 2014 OW<sub>391</sub>, 6, 2, 4; 2014 PR<sub>1</sub>, 3, 1, 0; 2014 PS<sub>10</sub>, 3, 1, 0; 2014 PZ<sub>10</sub>, 3, 1, 0; 2014 PK<sub>14</sub>, 3, 1, 0; 2014 PD<sub>17</sub>, 3, 1, 0; 2014 PE<sub>17</sub>, 6, 2, 2271; 2014 PZ<sub>20</sub>, 3, 1, 0; 2014 PW<sub>21</sub>, 3, 1, 0; 2014 PA<sub>22</sub>, 3, 1, 0; 2014 PG<sub>25</sub>, 3, 1, 0; 2014 PL<sub>31</sub>, 3, 1, 0; 2014 PJ<sub>32</sub>, 3, 1, 0; 2014 PG<sub>35</sub>, 6, 2, 18; 2014 PU<sub>36</sub>, 3, 1, 0; 2014 PF<sub>42</sub>, 3, 1, 0; 2014 PQ<sub>46</sub>, 3, 1, 0; 2014 PU<sub>47</sub>, 3, 1, 0; 2014 PW<sub>48</sub>, 3, 1, 0; 2014 PB<sub>51</sub>, 3, 1, 0; 2014 PJ<sub>51</sub>, 3, 1, 0; 2014 PP<sub>55</sub>, 3, 1, 0; 2014 PU<sub>55</sub>, 6, 1, 0; 2014 PY<sub>57</sub>, 3, 1, 0; 2014 PC<sub>58</sub>, 3, 1, 0; 2014 PP<sub>58</sub>, 2, 1, 0; 2014 PR<sub>58</sub>, 3, 1, 0; 2014 PS<sub>58</sub>, 6, 2, 3; 2014 PT<sub>58</sub>, 3, 1, 0; 2014 PV<sub>58</sub>, 6, 2, 1; 2014 PW<sub>58</sub>, 3, 1, 0; 2014 PX<sub>58</sub>, 6, 2, 2; 2014 PY<sub>58</sub>, 12, 4, 14; 2014 PZ<sub>58</sub>, 9, 3, 22; 2014 PA<sub>59</sub>, 12, 4, 27; 2014 PB<sub>59</sub>, 3, 1, 0; 2014 PC<sub>59</sub>, 3, 1, 0; 2014 PF<sub>59</sub>, 2, 1, 0; 2014 PH<sub>59</sub>, 3, 1, 0; 2014 PO<sub>59</sub>, 6, 2, 1919; 2014 PS<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PW<sub>59</sub>, 9, 3, 19; 2014 PQ<sub>62</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 PW<sub>67</sub>, 3, 1, 0; 2014 PX<sub>67</sub>, 3, 1, 0; 2014 PZ<sub>67</sub>, 3, 1, 0; 2014 PA<sub>68</sub>, 3, 1, 0; 2014 PB<sub>68</sub>, 3, 1, 0; 2014 PC<sub>68</sub>, 9, 3, 14; 2014 PP<sub>69</sub>, 9, 3, 5; 2014 QE<sub>2</sub>, 3, 1, 0; 2014 QG<sub>2</sub>, 3, 1, 0; 2014 QH<sub>2</sub>, 3, 1, 0; 2014 QK<sub>2</sub>, 3, 1, 0; 2014 QM<sub>2</sub>, 3, 1, 0; 2014 QO<sub>2</sub>, 3, 1, 0; 2014 QQ<sub>2</sub>, 3, 1, 0; 2014 QU<sub>2</sub>, 3, 1, 0; 2014 QW<sub>2</sub>, 3, 1, 0; 2014 QZ<sub>2</sub>, 3, 1, 0; 2014 QC<sub>3</sub>, 6, 2, 4; 2014 QD<sub>3</sub>, 3, 1, 0; 2014 QE<sub>3</sub>, 6, 2, 5; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QF<sub>33</sub>, 9, 3, 7; 2014 QR<sub>33</sub>, 3, 1, 0; 2014 QS<sub>33</sub>, 2, 1, 0; 2014 QT<sub>33</sub>, 6, 2, 4; 2014 QU<sub>33</sub>, 6, 2, 4; 2014 QV<sub>33</sub>, 3, 1, 0; 2014 QW<sub>33</sub>, 3, 1, 0; 2014 QY<sub>42</sub>, 3, 1, 0; 2014 QX<sub>168</sub>, 3, 1, 0; 2014 QZ<sub>168</sub>, 6, 2, 1; 2014 QJ<sub>169</sub>, 3, 1, 0; 2014 QC<sub>169</sub>, 3, 1, 0; 2014 QD<sub>169</sub>, 3, 1, 0; 2014 QE<sub>169</sub>, 3, 1, 0; 2014 QG<sub>169</sub>, 3, 1, 0; 2014 QH<sub>169</sub>, 2, 1, 0; 2014 QJ<sub>169</sub>, 3, 1, 0; 2014 QL<sub>169</sub>, 3, 1, 0; 2014 QM<sub>169</sub>, 3, 1, 0; 2014 QP<sub>169</sub>, 3, 1, 0; 2014 QL<sub>266</sub>, 3, 1, 0; 2014 QN<sub>266</sub>, 15, 5, 9; 2014 QO<sub>266</sub>, 6, 2, 9; 2014 QV<sub>266</sub>, 3, 1, 0; 2014 QW<sub>266</sub>, 3, 1, 0; 2014 QX<sub>266</sub>, 6, 2, 10; 2014 QA<sub>296</sub>, 3, 1, 0; 2014 QB<sub>296</sub>, 2, 1, 0; 2014 QC<sub>296</sub>, 3, 1, 0; 2014 QD<sub>296</sub>, 3, 1, 0; 2014 QE<sub>296</sub>, 5, 2, 8; 2014 QF<sub>296</sub>, 3, 1, 0; 2014 QJ<sub>296</sub>, 6, 2, 1; 2014 QK<sub>296</sub>, 6, 2, 4; 2014 QM<sub>296</sub>, 3, 1, 0; 2014 QO<sub>296</sub>, 9, 3, 3; 2014 QT<sub>296</sub>, 3, 1, 0; 2014 QU<sub>296</sub>, 3, 1, 0; 2014 QB<sub>362</sub>, 2, 1, 0; 2014 QC<sub>362</sub>, 3, 1, 0; 2014 QD<sub>362</sub>, 5, 2, 5; 2014 QG<sub>362</sub>, 3, 1, 0; 2014 QH<sub>362</sub>, 3, 1, 0; 2014 QK<sub>362</sub>, 6, 2, 1; 2014 QN<sub>362</sub>, 3, 1, 0; 2014 QO<sub>362</sub>, 3, 1, 0; 2014 QR<sub>362</sub>, 3, 1, 0; 2014 QS<sub>362</sub>, 3, 1, 0; 2014 QT<sub>362</sub>, 3, 1, 0; 2014 QW<sub>362</sub>, 3, 1, 0; 2014 QX<sub>362</sub>, 4, 2, 1; 2014 QY<sub>362</sub>, 6, 2, 3; 2014 QZ<sub>362</sub>, 6, 2, 7; 2014 QA<sub>363</sub>, 6, 2, 7; 2014 QC<sub>363</sub>, 6, 2, 7; 2014 QD<sub>363</sub>, 6, 2, 2; 2014 QF<sub>363</sub>, 3, 1, 0; 2014 QG<sub>363</sub>, 3, 1, 0; 2014 QH<sub>363</sub>, 3, 1, 0; 2014 QM<sub>363</sub>, 3, 1, 0;

2014 QN<sub>363</sub>, 2, 1, 0; 2014 QO<sub>363</sub>, 10, 4, 6; 2014 QP<sub>363</sub>, 3, 1, 0; 2014 QQ<sub>363</sub>, 3, 1, 0; 2014 QR<sub>363</sub>, 12, 4, 5; 2014 QS<sub>363</sub>, 3, 1, 0; 2014 QT<sub>363</sub>, 3, 1, 0; 2014 QV<sub>363</sub>, 3, 1, 0; 2014 QW<sub>363</sub>, 3, 1, 0; 2014 QX<sub>363</sub>, 8, 3, 3; 2014 QY<sub>363</sub>, 3, 1, 0; 2014 QA<sub>364</sub>, 3, 1, 0; 2014 QE<sub>364</sub>, 9, 3, 4; 2014 QF<sub>364</sub>, 3, 1, 0; 2014 QG<sub>364</sub>, 3, 1, 0; 2014 QT<sub>364</sub>, 2, 1, 0; 2014 QV<sub>364</sub>, 3, 1, 0; 2014 QC<sub>365</sub>, 3, 1, 0; 2014 QE<sub>365</sub>, 3, 1, 0; 2014 QF<sub>365</sub>, 6, 2, 2; 2014 QG<sub>365</sub>, 6, 2, 3; 2014 QH<sub>365</sub>, 9, 3, 2; 2014 QJ<sub>365</sub>, 3, 1, 0; 2014 QK<sub>365</sub>, 6, 2, 2; 2014 QL<sub>365</sub>, 3, 1, 0; 2014 QN<sub>365</sub>, 6, 2, 1; 2014 QS<sub>365</sub>, 6, 2, 1; 2014 QV<sub>365</sub>, 5, 2, 4; 2014 QW<sub>365</sub>, 2, 1, 0; 2014 QY<sub>365</sub>, 3, 1, 0; 2014 QZ<sub>365</sub>, 3, 1, 0; 2014 QJ<sub>391</sub>, 3, 1, 0; 2014 QK<sub>391</sub>, 3, 1, 0; 2014 QM<sub>391</sub>, 3, 1, 0; 2014 QN<sub>391</sub>, 3, 1, 0; 2014 QO<sub>391</sub>, 2, 1, 0; 2014 QP<sub>391</sub>, 3, 1, 0; 2014 QQ<sub>391</sub>, 2, 1, 0; 2014 QR<sub>391</sub>, 2, 1, 0; 2014 QS<sub>391</sub>, 3, 1, 0; 2014 QT<sub>391</sub>, 3, 1, 0; 2014 QV<sub>391</sub>, 3, 1, 0; 2014 QW<sub>391</sub>, 3, 1, 0; 2014 QX<sub>391</sub>, 9, 3, 3; 2014 QY<sub>391</sub>, 5, 2, 3; 2014 QZ<sub>391</sub>, 3, 1, 0; 2014 QC<sub>433</sub>, 6, 2, 3; 2014 QG<sub>433</sub>, 5, 2, 5; 2014 QH<sub>433</sub>, 8, 3, 8; 2014 QJ<sub>433</sub>, 3, 1, 0; 2014 QK<sub>433</sub>, 8, 3, 6; 2014 QL<sub>433</sub>, 6, 2, 2; 2014 QM<sub>433</sub>, 3, 1, 0; 2014 QN<sub>433</sub>, 2, 1, 0; 2014 QT<sub>433</sub>, 3, 1, 0; 2014 QW<sub>433</sub>, 3, 1, 0; 2014 QZ<sub>433</sub>, 3, 1, 0; 2014 QA<sub>434</sub>, 3, 1, 0; 2014 QC<sub>434</sub>, 3, 1, 0; 2014 QD<sub>434</sub>, 3, 1, 0; 2014 QE<sub>434</sub>, 3, 1, 0; 2014 QF<sub>434</sub>, 9, 3, 3; 2014 RF<sub>3</sub>, 1, 0; 2014 RD<sub>11</sub>, 3, 1, 0; 2014 RN<sub>11</sub>, 3, 1, 0; 2014 RT<sub>11</sub>, 3, 1, 0; 2014 RV<sub>11</sub>, 2, 1, 0; 2014 RW<sub>11</sub>, 3, 1, 0; 2014 RX<sub>11</sub>, 3, 1, 0; 2014 RB<sub>12</sub>, 6, 2, 2; (247360), 3, 1, 0; (403774), 3, 1, 0; [1547, 436, 1\*, 2001/04/24–2014/09/06]

### 300 Bisei Spaceguard Center–BATTeRS

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Observers K. Nishiyama, S. Okumura

1.0-m  $f/3.0$  reflector + CCD

GSC-ACT, UCAC-2, USNO-B1.0

2006 PM<sub>25</sub>, 4, 1, 0; 2006 WJ<sub>25</sub>, 4, 1, 0; 2008 YE<sub>78</sub>, 7, 1, 0; 2011 AA<sub>78</sub>, 4, 1, 0; 2012 DC<sub>63</sub>, 4, 1, 0; 2014 ML<sub>22</sub>, 5, 1, 0; 2014 OU<sub>111</sub>, 6, 1, 0; 2014 OG<sub>154</sub>, 4, 1, 0; 2014 OA<sub>180</sub>, 4, 1, 0; 2014 QL<sub>32</sub>, 5, 1, 0; 2014 QR<sub>32</sub>, 5, 1, 0; [52, 11, 0\*, 2008/01/02–2014/08/21]

### 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

2005 SE<sub>289</sub>, 3, 1, 0; [3, 1, 0\*, 2000/09/25]

### 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

2014 OB<sub>192</sub>, 3, 1, 0; (404603), 1, 1, 0; [4, 2, 0\*, 2003/02/09–2003/09/29]

### 448 Desert Moon Observatory

B. L. Stevens, 5675 Real del Norte, Las Cruces, NM 88012, U.S.A.

[blslcnm@comcast.net]

0.3-m Schmidt-Cassegrain + CCD

UCAC-4

1987 SF<sub>3</sub>, 5, 1, 0; 2001 SD<sub>348</sub>, 3, 1, 0; 2002 RB<sub>126</sub>, 4, 1, 0; 2007 AB<sub>2</sub>, 3, 1, 0; 2007 TG<sub>25</sub>, 4, 1, 0; 2010 RS<sub>90</sub>, 3, 1, 0; 2012 CL<sub>2</sub>, 3, 1, 0; 2013 QJ<sub>10</sub>, 3, 1, 0; 2014 KX<sub>99</sub>, 6, 2, 5; 2014 MK<sub>6</sub>, 3, 1, 0; 2014 MM<sub>55</sub>, 3, 1, 0; 2014 OT<sub>111</sub>, 3, 1, 0; 2014 OD<sub>300</sub>, 3, 1, 0; 2014 PD<sub>58</sub>, 3, 1, 0; 2014 QJ<sub>33</sub>, 3, 1, 0; 2014 QK<sub>33</sub>, 3, 1, 0; 2014 QU<sub>169</sub>, 6, 2, 3; 2014 QZ<sub>295</sub>, 3, 1, 0; 2014 QK<sub>296</sub>, 3, 1, 0; (7583), 5, 1, 0; (19192), 3, 1, 0; (22151), 3, 1, 0; (36017), 4, 1, 0; (49766), 3, 1, 0; (50523), 3, 1, 0; (53887), 3, 1, 0; (106589), 3, 1, 0; (137799), 3, 1, 0; (143624), 5, 1, 0; (159759), 3, 1, 0; (164483), 3, 1, 0; (176443), 3, 1, 0; (215481), 3, 1, 0; (224926), 5, 1, 0; (253175), 3, 1, 0; (275792), 3, 1, 0; (276049), 5, 1, 0; (277127), 3, 1, 0; (334673), 3, 1, 0; [136, 39, 0\*, 2014/08/29–2014/09/03]



**460 Area 52 Observatory, Nashville**

R. Clingan, 305 Anglewood Dr., Nashville, AR 71852, U.S.A. [rrac-0460@sbcglobal.net]

0.30-m Schmidt-Cassegrain + CCD

UCAC-2

2012 XA<sub>53</sub>, 2, 1, 0; [2, 1, 0\*, 2003/12/24]

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Observers A. Pál, K. Vida, L. Kriskovics, K. Sárneczky, R. Szakács

Measurers K. Sárneczky, S. Kürti

1.02-m Ritchey-Chrétien + CCD, 0.60-m Schmidt + CCD

USNO-B1.0

2001 SU<sub>144</sub>, 3, 1, 0; 2002 PJ<sub>177</sub>, 3, 1, 0; 2003 QG<sub>108</sub>, 3, 1, 0; 2003 UU<sub>170</sub>, 4, 1, 0; 2004 BX<sub>75</sub>, 3, 1, 0; 2005 BG<sub>2</sub>, 4, 1, 0; 2006 RK<sub>47</sub>, 3, 1, 0; 2006 TP<sub>10</sub>, 2, 1, 0; 2006 TS<sub>115</sub>, 3, 1, 0; 2006 TK<sub>118</sub>, 3, 1, 0; 2007 TH<sub>63</sub>, 3, 1, 0; 2007 TL<sub>345</sub>, 6, 1, 0; 2008 AW<sub>89</sub>, 3, 1, 0; 2008 PN<sub>3</sub>, 3, 1, 0; 2009 WM<sub>101</sub>, 3, 1, 0; 2010 RO<sub>11</sub>, 3, 1, 0; 2010 SQ<sub>6</sub>, 4, 1, 0; 2011 MV<sub>5</sub>, 3, 1, 0; 2012 BS<sub>24</sub>, 3, 1, 0; 2013 EL<sub>108</sub>, 2, 1, 0; 2014 EJ<sub>25</sub>, 4, 1, 0; 2014 JM<sub>59</sub>, 3, 1, 0; 2014 KJ<sub>7</sub>, 3, 1, 0; 2014 MC<sub>13</sub>, 7, 1, 0; 2014 MS<sub>68</sub>, 2, 1, 0; 2014 NN<sub>37</sub>, 8, 1, 0; 2014 ND<sub>44</sub>, 2, 1, 0; 2014 OU<sub>1</sub>, 3, 1, 0; 2014 OC<sub>101</sub>, 3, 1, 0; 2014 OW<sub>151</sub>, 3, 1, 0; 2014 OW<sub>206</sub>, 2, 1, 0; 2014 OX<sub>206</sub>, 3, 1, 0; 2014 OB<sub>227</sub>, 2, 1, 0; 2014 OZ<sub>316</sub>, 2, 1, 0; 2014 OC<sub>370</sub>, 3, 1, 0; 2014 OE<sub>370</sub>, 3, 1, 0; 2014 PJ<sub>34</sub>, 4, 1, 0; 2014 PP<sub>34</sub>, 3, 1, 0; 2014 PG<sub>38</sub>, 6, 2, 1; 2014 PM<sub>41</sub>, 3, 1, 0; 2014 PH<sub>63</sub>, 2, 1, 0; 2014 PV<sub>66</sub>, 6, 1, 0; 2014 QG<sub>33</sub>, 4, 1, 0; 2014 QA<sub>169</sub>, 2, 1, 0; 2014 QU<sub>169</sub>, 3, 1, 0; 2014 QM<sub>267</sub>, 4, 1, 0; 2014 QM<sub>267</sub>, 3, 1, 0; 2014 QG<sub>273</sub> \*, 4, 1, 0; 2014 QN<sub>277</sub>, 3, 1, 0; 2014 QR<sub>281</sub> \*, 6, 2, 1; 2014 QS<sub>281</sub> \*, 7, 2, 1; 2014 QM<sub>297</sub> \*, 6, 2, 1; 2014 QD<sub>336</sub> \*, 4, 1, 0; 2014 QE<sub>336</sub> \*, 4, 1, 0; 2014 QF<sub>336</sub> \*, 4, 1, 0; 2014 QG<sub>336</sub> \*, 4, 1, 0; (207), 4, 1, 0; (539), 4, 1, 0; (549), 6, 1, 0; (569), 3, 1, 0; (794), 4, 1, 0; (1045), 8, 1, 0; (1162), 4, 1, 0; (1446), 3, 1, 0; (2032), 4, 1, 0; (2648), 3, 1, 0; (3414), 3, 1, 0; (3698), 3, 1, 0; (3810), 3, 1, 0; (4316), 3, 1, 0; (4416), 4, 1, 0; (5596), 3, 1, 0; (6177), 3, 1, 0; (6206), 4, 1, 0; (6899), 3, 1, 0; (6998), 3, 1, 0; (7466), 3, 1, 0; (7791), 8, 1, 0; (7909), 3, 1, 0; (8139), 6, 1, 0; (8215), 3, 1, 0; (8237), 3, 1, 0; (8858), 3, 1, 0; (8880), 3, 1, 0; (9189), 4, 1, 0; (9206), 4, 1, 0; (9422), 8, 1, 0; (9834), 4, 1, 0; (10149), 3, 1, 0; (10191), 8, 1, 0; (10223), 3, 1, 0; (10268), 7, 2, 3; (10393), 3, 1, 0; (10524), 8, 1, 0; (10693), 3, 1, 0; (10826), 3, 1, 0; (10913), 4, 1, 0; (10986), 4, 1, 0; (11404), 3, 1, 0; (11711), 3, 1, 0; (11762), 8, 1, 0; (11823), 4, 1, 0; (11862), 2, 1, 0; (13413), 4, 1, 0; (13432), 3, 1, 0; (13490), 3, 1, 0; (13665), 3, 1, 0; (13920), 3, 1, 0; (13945), 3, 1, 0; (14156), 3, 1, 0; (14305), 3, 1, 0; (15726), 3, 1, 0; (16852), 4, 1, 0; (17016), 6, 1, 0; (17714), 6, 1, 0; (17799), 3, 1, 0; (18376), 3, 1, 0; (19249), 3, 1, 0; (19692), 4, 1, 0; (20727), 4, 1, 0; (20824), 3, 1, 0; (21036), 4, 1, 0; (21947), 3, 1, 0; (22324), 3, 1, 0; (22982), 3, 1, 0; (23011), 3, 1, 0; (23064), 3, 1, 0; (23266), 4, 1, 0; (23972), 3, 1, 0; (24393), 3, 1, 0; (24653), 4, 1, 0; (24812), 3, 1, 0; (24930), 3, 1, 0; (25490), 6, 1, 0; (26790), 7, 1, 0; (27370), 3, 1, 0; (27983), 3, 1, 0; (28061), 3, 1, 0; (29299), 4, 1, 0; (30885), 4, 1, 0; (31593), 3, 1, 0; (31683), 6, 1, 0; (31891), 3, 1, 0; (32206), 6, 1, 0; (32482), 3, 1, 0; (32623), 3, 1, 0; (32970), 11, 1, 0; (33557), 4, 1, 0; (34007), 3, 1, 0; (34166), 8, 1, 0; (34462), 3, 1, 0; (34782), 4, 1, 0; (35099), 3, 1, 0; (35109), 4, 1, 0; (35857), 8, 1, 0; (35972), 4, 1, 0; (36849), 4, 1, 0; (37152), 3, 1, 0; (37371), 3, 1, 0; (37372), 4, 1, 0; (37626), 3, 1, 0; (37706), 3, 1, 0; (38890), 3, 1, 0; (39380), 3, 1, 0; (39863), 3, 1, 0; (41083), 3, 1, 0; (41846), 3, 1, 0; (41884), 3, 1, 0; (42637), 3, 1, 0; (42929), 3, 1, 0; (43387), 3, 1, 0; (45938), 3, 1, 0; (46014), 4, 1, 0; (47373), 8, 1, 0; (47910), 3, 1, 0; (49185), 7, 2, 1; (50945), 3, 1, 0; (52124), 7, 1, 0; (52644), 4, 1, 0; (54234), 8, 1, 0; (54758), 3, 1, 0; (57031), 3, 1, 0; (57658), 3, 1, 0; (59113), 3, 1, 0; (59119), 3, 1, 0; (59403), 3, 1, 0; (61664), 4, 1, 0; (61855), 8, 1, 0; (62365), 3, 1, 0; (62424), 4, 1, 0; (62850), 3, 1, 0; (62965), 8, 1, 0; (63629), 4, 1, 0; (66254), 4, 1, 0; (66269), 3, 1, 0; (66701), 3, 1, 0; (67525), 8, 1, 0; (67608), 4, 1, 0; (67612), 3, 1, 0; (67711), 4, 1, 0; (67814), 3, 1, 0; (67891), 7, 1, 0; (67975), 6, 1, 0; (68057), 8, 1, 0; (69164), 7, 1, 0; (69464), 3, 1, 0; (69489), 3, 1, 0; (69733), 4, 1, 0; (69876), 4, 1, 0; (71865), 3, 1, 0; (73265), 3, 1, 0; (73652), 4, 1, 0; (73951), 3, 1, 0; (74674), 3, 1, 0; (75135), 2, 1, 0; (75928), 8, 1, 0; (78317), 4, 1, 0; (78385), 2, 1, 0; (80886), 3, 1, 0; (81022), 3, 1, 0; (81036), 3, 1, 0; (82517), 7, 2, 1; (89309), 3, 1, 0; (91912), 3, 1, 0; (92746), 4, 1, 0; (93608), 4, 1, 0; (94792), 4, 1, 0; (97584), 4, 1, 0; (97959), 3, 1, 0; (98336), 4, 1, 0; (98365), 4, 1, 0; (99362), 3, 1, 0; (99624), 3, 1, 0; (99865), 4, 1, 0; (100694), 3, 1, 0; (101196), 3, 1, 0; (101399), 3, 1, 0; (101649), 8, 1, 0; (101807), 3, 1, 0; (102158), 3, 1, 0; (105122), 4, 1, 0; (105136), 4, 1, 0; (105427), 7, 1, 0; (107198), 3, 1, 0; (107201), 8, 1, 0; (109888), 3, 1, 0; (110164), 3, 1, 0; (110542), 3, 1, 0; (114913), 3, 1, 0; (116117), 3, 1, 0; (117993), 3, 1, 0; (118707), 3, 1, 0; (119794), 3, 1, 0; (121843), 5, 1, 0; (123351), 3, 1, 0; (123941), 3, 1, 0; (124021), 8, 1, 0; (125548), 3, 1, 0; (130122), 6, 1, 0; (131958), 4, 1, 0; (134112), 3, 1, 0; (135687), 3, 1, 0; (137010), 8, 1, 0; (141521), 3, 1, 0; (142414), 4, 1, 0; (145347), 3, 1, 0; (146058), 3, 1, 0; (147341), 3, 1, 0; (148751), 7, 1, 0; (148939), 3, 1, 0; (149860), 3, 1, 0; (151440), 3, 1, 0; (152042), 3, 1, 0; (159728), 4, 1, 0; (159823), 4, 1, 0; (160717), 7, 1, 0; (162529), 3, 1, 0; (162660), 3, 1, 0; (168553), 4, 1, 0; (171392), 7, 2, 1; (171585), 4, 1, 0;

(176796), 4, 1, 0; (177421), 4, 1, 0; (177594), 7, 1, 0; (180543), 3, 1, 0; (183509), 3, 1, 0; (199813), 3, 1, 0; (200689), 8, 1, 0; (205727), 4, 1, 0; (214929), 3, 1, 0; (215548), 4, 1, 0; (218381), 7, 1, 0; (220790), 3, 1, 0; (221685), 3, 1, 0; (223400), 6, 2, 1; (223462), 4, 1, 0; (223883), 3, 1, 0; (225807), 3, 1, 0; (226993), 3, 1, 0; (233501), 3, 1, 0; (236788), 3, 1, 0; (244899), 4, 1, 0; (246871), 4, 1, 0; (246911), 3, 1, 0; (247600), 3, 1, 0; (253258), 3, 1, 0; (255269), 7, 1, 0; (255414), 4, 1, 0; (256318), 8, 1, 0; (256699), 4, 1, 0; (258874), 2, 1, 0; (259812), 2, 1, 0; (260157), 3, 1, 0; (291155), 3, 1, 0; (297611), 2, 1, 0; (302162), 3, 1, 0; (302211), 4, 1, 0; (303336), 4, 1, 0; (304019), 3, 1, 0; (305591), 2, 1, 0; (306840), 3, 1, 0; (307061), 3, 1, 0; (310493), 4, 1, 0; (311188), 4, 1, 0; (311329), 7, 1, 0; (313642), 6, 2, 1; (313880), 3, 1, 0; (319188), 3, 1, 0; (326752), 3, 1, 0; (330944), 3, 1, 0; (360291), 3, 1, 0; (363621), 4, 1, 0; (368108), 3, 1, 0; (399388), 7, 1, 0; (400107), 7, 1, 0; (400162), 3, 1, 0; (403442), 7, 2, 1; (403732), 3, 1, 0; (404054), 3, 1, 0; [1929, 339, 8\*, 2005/04/28–2014/08/28]

**474 Mount John Observatory, Lake Tekapo**

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Tekapo, New Zealand [a.gilmore@phys.canterbury.ac.nz]

Observers A. C. Gilmore, P. M. Kilmartin

1.0-m  $f/7.7$  reflector + CCD

PPMXL, USNO-A2.0

2004 QD<sub>14</sub>, 3, 1, 0; 2005 QG<sub>88</sub>, 3, 1, 0; 2007 UU<sub>104</sub>, 3, 1, 0; 2007 VH<sub>253</sub>, 5, 1, 0; 2008 KM<sub>6</sub>, 3, 1, 0; 2008 SW<sub>11</sub>, 3, 1, 0; 2010 LO<sub>97</sub>, 4, 1, 0; 2010 RO<sub>82</sub>, 5, 1, 0; 2012 LC<sub>1</sub>, 5, 1, 0; 2012 RG<sub>3</sub>, 3, 1, 0; 2012 TU, 4, 1, 0; 2013 GY<sub>54</sub>, 4, 1, 0; 2013 MY<sub>6</sub>, 5, 1, 0; 2013 PH<sub>44</sub>, 4, 1, 0; 2013 WY<sub>67</sub>, 4, 1, 0; 2014 DH<sub>80</sub>, 4, 1, 0; 2014 DM<sub>112</sub>, 3, 1, 0; 2014 GH<sub>35</sub>, 3, 1, 0; 2014 GY<sub>48</sub>, 4, 1, 0; 2014 HM<sub>178</sub>, 4, 1, 0; 2014 KG<sub>2</sub>, 3, 1, 0; 2014 LN<sub>14</sub>, 3, 1, 0; 2014 LO<sub>14</sub>, 4, 1, 0; 2014 MV<sub>2</sub>, 3, 1, 0; 2014 MP<sub>5</sub>, 5, 1, 0; 2014 MC<sub>6</sub>, 5, 1, 0; 2014 MX<sub>26</sub>, 3, 1, 0; 2014 MY<sub>26</sub>, 3, 1, 0; 2014 NE<sub>63</sub>, 3, 1, 0; 2014 NH<sub>64</sub>, 4, 1, 0; 2014 OY<sub>1</sub>, 3, 1, 0; 2014 OA<sub>2</sub>, 4, 1, 0; 2014 OV<sub>3</sub>, 4, 1, 0; 2014 OO<sub>6</sub>, 17, 3, 3; 2014 ON<sub>57</sub>, 8, 2, 1; 2014 ON<sub>207</sub>, 3, 1, 0; 2014 OY<sub>337</sub>, 4, 1, 0; 2014 OE<sub>338</sub>, 3, 1, 0; 2014 OF<sub>338</sub>, 3, 1, 0; 2014 OR<sub>338</sub>, 4, 1, 0; 2014 OA<sub>339</sub>, 4, 1, 0; 2014 ON<sub>339</sub>, 3, 1, 0; 2014 ON<sub>344</sub>, 3, 1, 0; 2014 OV<sub>391</sub>, 3, 1, 0; 2014 PH<sub>51</sub>, 3, 1, 0; 2014 PJ<sub>51</sub>, 3, 1, 0; 2014 PB<sub>58</sub>, 3, 1, 0; 2014 PC<sub>58</sub>, 3, 1, 0; 2014 PQ<sub>58</sub>, 4, 1, 0; 2014 PP<sub>59</sub>, 3, 1, 0; 2014 PQ<sub>59</sub>, 4, 1, 0; 2014 PR<sub>59</sub>, 4, 1, 0; 2014 PT<sub>59</sub>, 10, 2, 1; 2014 PU<sub>59</sub>, 4, 1, 0; 2014 PV<sub>59</sub>, 6, 2, 1; 2014 PW<sub>59</sub>, 12, 3, 6; 2014 PX<sub>59</sub>, 8, 2, 1; 2014 PY<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 10, 2, 1; 2014 PS<sub>62</sub>, 4, 1, 0; 2014 PU<sub>67</sub>, 3, 1, 0; 2014 PV<sub>67</sub>, 3, 1, 0; 2014 PD<sub>68</sub>, 7, 2, 5; 2014 PE<sub>68</sub>, 7, 2, 2; 2014 PF<sub>68</sub>, 7, 2, 1; 2014 QB<sub>3</sub>, 1, 0; 2014 QC<sub>4</sub>, 1, 0; 2014 QD<sub>5</sub>, 1, 0; 2014 QE<sub>4</sub>, 1, 0; 2014 QF<sub>3</sub>, 1, 0; 2014 QG<sub>4</sub>, 1, 0; 2014 QH<sub>3</sub>, 1, 0; 2014 QL<sub>3</sub>, 1, 0; 2014 QB<sub>2</sub>, 3, 1, 0; 2014 QO<sub>2</sub>, 6, 2, 3; 2014 QR<sub>2</sub>, 3, 1, 0; 2014 QU<sub>2</sub>, 13, 4, 4; 2014 QY<sub>2</sub>, 3, 1, 0; 2014 QH<sub>32</sub>, 4, 1, 0; 2014 QL<sub>32</sub>, 7, 2, 1; 2014 QW<sub>32</sub>, 3, 1, 0; 2014 QZ<sub>32</sub>, 4, 1, 0; 2014 QA<sub>33</sub>, 8, 2, 1; 2014 QC<sub>33</sub>, 4, 1, 0; 2014 QD<sub>33</sub>, 4, 1, 0; 2014 QE<sub>33</sub>, 4, 1, 0; 2014 QG<sub>33</sub>, 4, 1, 0; 2014 QH<sub>33</sub>, 5, 1, 0; 2014 QQ<sub>33</sub>, 5, 1, 0; (36017), 3, 1, 0; [401, 90, 0\*, 2014/08/15–2014/08/21]

**493 Calar Alto**

F. Hormuth, Centro Astronómico Hispano Alemán, C/ Jesús Durbán Remón 2-2, E-04004 Almería, Spain [hormuth@mpia.eu]

Observers S. Hellmich, S. Mottola

1.23-m  $f/8$  reflector + CCD

PPMXL

2014 KP<sub>33</sub>, 3, 1, 0; 2014 ND<sub>52</sub>, 4, 1, 0; 2014 OV<sub>45</sub>, 3, 1, 0; 2014 OT<sub>338</sub>, 3, 1, 0; 2014 PD<sub>58</sub>, 3, 1, 0; 2014 QB<sub>49</sub>, 3, 1, 0; 2014 QN<sub>295</sub>, 4, 1, 0; 2014 QT<sub>295</sub>, 3, 1, 0; 2014 QO<sub>296</sub>, 5, 1, 0; 2014 QP<sub>296</sub>, 4, 1, 0; 2014 QS<sub>296</sub>, 3, 1, 0; 2014 QV<sub>296</sub>, 3, 1, 0; 2014 QH<sub>362</sub>, 3, 1, 0; 2014 QV<sub>363</sub>, 3, 1, 0; [47, 14, 0\*, 2013/04/13–2014/08/29]

**557 Ondřejov**

P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic [ppravec@asu.cas.cz]

Observers P. Kušnirák, K. Hornoch, J. Vrástl

0.65-m  $f/3.6$  reflector + CCD

UCAC-3

2014 MO<sub>65</sub>, 3, 1, 0; (3146), 9, 2, 1; (6095), 5, 2, 1; (6521), 9, 2, 1; [26, 4, 0\*, 2001/08/20–2014/07/24]

**560 Madonna di Dossobuono**

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[astrofil@astbo1.bo.cnr.it]



0.40-m  $f/5.0$  reflector + CCD  
UCAC-4

2014 PD<sub>58</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; [6, 2, 0\*, 2014/08/27]

### 566 Haleakala-NEAT/GEODSS

R. Bamberg, Jet Propulsion Laboratory, MS 168-527, Pasadena, CA 91109, U.S.A.  
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Observers R. Byrd, A. Esquibel, C. Cotton, D. Bascon, E. F. Helin, S. H. Pravdo,  
K. J. Lawrence, D. L. Rabinowitz, S. Groom, C. Clark, R. Bamberg, S. Levin,  
J. Lorre, S. Shaklan, A. Esquible, M. Hicks, P. Kervin

Measurers S. Hönig, F. Anzellini, A. Lowe, K. Sárneczky, R. Matson, B. Sipőcz

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

USNO-A2.0, UCAC-2, USNO-B1.0, USNO-SA1.0

2003 YY<sub>80</sub>, 3, 1, 0; [3, 1, 0\*, 2000/03/08]

### 568 Mauna Kea

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London N6A 3K7, Canada [pwiegert@uwo.ca] (19)

A. Boattini, Istituto di Astrofisica Spaziale, Via Fosso del Cavaliere, I-00133 Rome,  
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[ovidiu.vaduvescu@gmail.com] (25)

S. Gwyn, Canadian Astronomical Data Centre, Herzberg Institute of  
Astrophysics, 5071 West Saanich Road, Victoria, BC V9E 2E7, Canada  
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[marco.bs@tiscali.it] (29)

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[lucian.hudin@gmail.com] (36)

P. Veres, no details supplied (38)

Observers D. J. Tholen, H. Hsieh, C. Trujillo, J. Kemp, A. Stephens, B. Bolin,  
J. Dvorak, R. J. Wainscoat, A. Draginda, L. Wells, D. Woodworth,  
S. S. Sheppard

Measurers D. J. Tholen, M. Micheli, H. Hsieh, P. Veres, B. Bolin, R. J. Wainscoat,  
S. Gwyn, D. Lacatus, O. Vaduvescu, M. Popescu, M. Conovici, A. Tudorica,  
A. Sonka, L. Hudin, L. Curelaru

2.24-m University of Hawaii reflector + CCD, 3.6-m Canada-France-Hawaii  
Telescope + CCD, 3.6-m Canada-France-Hawaii Telescope + MegaCam, 8.2-m  
 $f/2$  reflector + CCD

PPMXL, USNO-A2.0

{19} 2006 WP<sub>149</sub>, 3, 1, 0; 2012 BR<sub>86</sub>, 3, 1, 0; 2012 XX<sub>27</sub>, 3, 1, 0; 2013 HL<sub>131</sub>, 4, 2, 1; 2014 AK<sub>28</sub>,  
3, 1, 0; 2014 GR<sub>40</sub>, 5, 1, 0; 2014 HX<sub>180</sub>, 9, 1, 0; 2014 OD<sub>53</sub>, 3, 1, 0; 2014 OL<sub>142</sub>, 3, 1, 0;  
2014 OT<sub>233</sub>, 3, 1, 0; 2014 OB<sub>241</sub>, 3, 1, 0; 2014 OC<sub>304</sub>, 3, 1, 0; [45, 12, 0\*, 2003/08/31–  
2007/01/16]

{20} 2004 RK<sub>236</sub>, 3, 1, 0; 2009 SH<sub>172</sub>, 3, 1, 0; 2011 BO<sub>30</sub>, 2, 1, 0; 2014 OB<sub>19</sub>, 3, 1, 0; 2014 OY<sub>133</sub>,  
2, 1, 0; 2014 PC<sub>9</sub>, 3, 1, 0; [16, 6, 0\*, 2005/10/07–2005/12/03]

{2} 2004 QQ<sub>26</sub>, 2, 1, 0; 2005 YO<sub>180</sub>, 2, 1, 0; 2006 RG<sub>2</sub>, 6, 2, 1; 2009 QZ<sub>38</sub>, 2, 1, 0; 2009 WO<sub>6</sub>,  
6, 2, 16; 2010 CM<sub>44</sub>, 4, 2, 16; 2010 LQ<sub>33</sub>, 4, 2, 2; 2010 VM<sub>131</sub>, 3, 1, 0; 2011 PU<sub>1</sub>, 23, 1, 0;  
2013 EW<sub>27</sub>, 4, 2, 20; 2013 HR<sub>11</sub>, 9, 2, 16; 2013 KJ<sub>17</sub>, 2, 1, 0; 2013 NT<sub>11</sub>, 7, 2, 2; 2013 QN<sub>10</sub>, 4, 2,  
2; 2013 UE<sub>3</sub>, 5, 2, 4; 2013 XK<sub>22</sub>, 4, 1, 0; 2014 BX<sub>32</sub>, 5, 3, 8; 2014 GG<sub>17</sub>, 4, 1, 0; 2014 GH<sub>17</sub>, 5, 1,  
0; 2014 HS<sub>124</sub>, 1, 1, 0; 2014 KN<sub>76</sub>, 2, 1, 0; 2014 LU<sub>14</sub>, 2, 1, 0; 2014 LQ<sub>25</sub>, 3, 2, 20; 2014 MT<sub>5</sub>, 3, 1,  
0; 2014 NF<sub>3</sub>, 2, 1, 0; 2014 NA<sub>39</sub>, 2, 1, 0; 2014 NE<sub>63</sub>, 2, 1, 0; 2014 NC<sub>64</sub>, 2, 1, 0; 2014 NE<sub>64</sub>, 5, 2,  
20; 2014 NM<sub>64</sub>, 5, 2, 20; 2014 OY<sub>1</sub>, 2, 1, 0; 2014 OZ<sub>1</sub>, 4, 2, 20; 2014 OR<sub>2</sub>, 2, 1, 0; 2014 OG<sub>3</sub>, 3, 1,  
0; 2014 OC<sub>4</sub>, 2, 1, 0; 2014 OL<sub>6</sub>, 2, 1, 0; 2014 OH<sub>112</sub>, 3, 1, 0; 2014 OH<sub>141</sub>, 3, 1, 0; 2014 ON<sub>207</sub>, 2, 1,  
0; 2014 OG<sub>300</sub>, 2, 1, 0; 2014 OS<sub>338</sub>, 3, 1, 0; 2014 OL<sub>339</sub>, 3, 1, 0; 2014 OU<sub>344</sub>, 2, 1, 0; 2014 OO<sub>391</sub>,  
6, 2, 8; 2014 OQ<sub>391</sub>, 2, 1, 0; 2014 OR<sub>391</sub>, 4, 1, 0; 2014 OS<sub>391</sub>, 3, 1, 0; 2014 OT<sub>391</sub>, 2, 1, 0;  
2014 OU<sub>391</sub>, 3, 1, 0; 2014 OJ<sub>392</sub>, 2, 1, 0; 2014 PS<sub>27</sub>, 6, 1, 0; 2014 PQ<sub>58</sub>, 2, 1, 0; 2014 PP<sub>69</sub>, 14, 5,  
13; 2014 QC<sub>3</sub>, 4, 2, 1; 2014 QF<sub>33</sub>, 8, 3, 3; 2014 QR<sub>134</sub>, 2, 1, 0; 2014 QN<sub>266</sub>, 4, 2, 2; 2014 QO<sub>296</sub>,  
2, 1, 0; 2014 QU<sub>296</sub>, 2, 1, 0; 2014 QJ<sub>362</sub>, 4, 1, 0; 2014 QK<sub>362</sub>, 2, 1, 0; 2014 QL<sub>362</sub>, 3, 1, 0;  
2014 QM<sub>362</sub>, 2, 1, 0; 2014 QN<sub>362</sub>, 2, 1, 0; 2014 QO<sub>362</sub>, 3, 1, 0; 2014 QP<sub>362</sub>, 2, 1, 0; 2014 QQ<sub>362</sub>,  
2, 1, 0; 2014 QU<sub>362</sub>, 2, 1, 0; 2014 QV<sub>362</sub>, 2, 1, 0; 2014 QW<sub>362</sub>, 2, 1, 0; 2014 QX<sub>363</sub>, 3, 1, 0;  
2014 QP<sub>363</sub>, 3, 1, 0; 2014 QQ<sub>363</sub>, 3, 1, 0; 2014 QD<sub>365</sub>, 3, 1, 0; 2014 QH<sub>365</sub>, 2, 1, 0; 2014 QX<sub>432</sub>,  
2, 1, 0; 2014 QC<sub>433</sub>, 2, 1, 0; 2014 QF<sub>433</sub>, 2, 1, 0; 2014 QH<sub>433</sub>, 2, 1, 0; 2014 QJ<sub>433</sub>, 4, 2, 5;  
2014 QK<sub>433</sub>, 2, 1, 0; 2014 QN<sub>433</sub>, 5, 2, 5; 2014 QO<sub>433</sub>, 5, 2, 5; 2014 QE<sub>434</sub>, 3, 1, 0; 2014 RC<sub>12</sub>, 12,  
2, 1; 2014 RA<sub>12</sub>, 2, 1, 0; 2014 RB<sub>12</sub>, 2, 1, 0; (23922), 3, 1, 0; (39612), 8, 1, 0; (43460), 2, 1, 0;  
(66241), 2, 1, 0; (75882), 3, 1, 0; (107870), 2, 1, 0; (136147), 6, 2, 1; (139451), 2, 1, 0; (151380),  
2, 1, 0; (155343), 3, 1, 0; (174850), 1, 1, 0; (204428), 2, 1, 0; (215168), 3, 1, 0; (253932), 2, 1, 0;  
(282739), 2, 1, 0; (311845), 2, 1, 0; (359027), 3, 1, 0; [360, 104, 0\*, 2004/09/16–2014/09/04]

{5} 2000 QN<sub>251</sub>, 2, 1, 0; 2002 VV<sub>130</sub>, 2, 1, 0; [4, 2, 0\*, 2014/08/29]

{7} 2014 PK<sub>14</sub>, 2, 1, 0; [2, 1, 0\*, 2004/06/24]

{9} 2005 JA<sub>131</sub>, 5, 1, 0; 2005 XU<sub>1</sub>, 3, 1, 0; 2010 RA<sub>99</sub>, 2, 1, 0; 2013 KC<sub>17</sub>, 3, 1, 0; [13, 4, 0\*,  
1999/09/11–2007/01/17]

{36} 2001 HK<sub>31</sub>, 3, 1, 0; [3, 1, 0\*, 2001/04/21]

{38} 2007 LR<sub>19</sub>, 3, 1, 0; 2007 TA<sub>25</sub>, 3, 1, 0; 2014 QP<sub>2</sub>, 3, 1, 0; 2014 QD<sub>2</sub>, 3, 1, 0; 2014 QP<sub>2</sub>, 3,  
1, 0; 2014 QQ<sub>2</sub>, 3, 1, 0; 2014 QS<sub>2</sub>, 3, 1, 0; 2014 QT<sub>2</sub>, 3, 1, 0; 2014 QV<sub>2</sub>, 3, 1, 0; 2014 QW<sub>2</sub>,  
3, 1, 0; 2014 QY<sub>32</sub>, 10, 1, 0; 2014 QF<sub>169</sub>, 3, 1, 0; 2014 QL<sub>169</sub>, 3, 1, 0; 2014 QX<sub>265</sub>, 3, 1, 0;  
2014 QY<sub>265</sub>, 3, 1, 0; 2014 QK<sub>266</sub>, 2, 1, 0; 2014 QP<sub>266</sub>, 3, 1, 0; 2014 QL<sub>295</sub>, 3, 1, 0; 2014 QN<sub>295</sub>,  
3, 1, 0; 2014 QR<sub>295</sub>, 3, 1, 0; 2014 QV<sub>362</sub>, 3, 1, 0; 2014 QW<sub>363</sub>, 3, 1, 0; 2014 QH<sub>390</sub>, 3, 1, 0;  
2014 QX<sub>432</sub>, 3, 1, 0; 2014 QC<sub>433</sub>, 3, 1, 0; 2014 QJ<sub>433</sub>, 3, 1, 0; 2014 QM<sub>433</sub>, 3, 1, 0; [87, 27, 0\*,  
2014/08/19–2014/09/02]

{25} 2001 XP<sub>3</sub>, 3, 1, 0; 2002 VR<sub>14</sub>, 3, 1, 0; 2006 QY<sub>5</sub>, 3, 1, 0; 2007 DD<sub>6</sub>, 1, 0; 2008 BC<sub>22</sub>, 6, 2,  
1; [21, 5, 0\*, 2001/11/17–2011/06/01]

{26} 2014 QL<sub>296</sub>, 2, 1, 0; [2, 1, 0\*, 2014/08/20]

{29} 2002 QQ<sub>40</sub>, 2, 1, 0; 2005 SX<sub>4</sub>, 3, 1, 0; 2007 CK<sub>15</sub>, 8, 1, 0; 2007 TU<sub>55</sub>, 3, 1, 0; 2009 BP<sub>117</sub>, 3,  
1, 0; 2009 SE<sub>154</sub>, 3, 1, 0; 2014 KQ<sub>94</sub>, 3, 1, 0; 2014 MO<sub>5</sub>, 2, 1, 0; 2014 OH<sub>95</sub>, 6, 1, 0; 2014 OY<sub>391</sub>,  
3, 1, 0; 2014 OF<sub>392</sub>, 3, 1, 0; 2014 OJ<sub>392</sub>, 3, 1, 0; 2014 PU<sub>35</sub>, 3, 1, 0; 2014 QG<sub>3</sub>, 1, 0; 2014 QC<sub>2</sub>,  
3, 1, 0; 2014 QJ<sub>2</sub>, 3, 1, 0; 2014 QN<sub>2</sub>, 3, 1, 0; 2014 QX<sub>2</sub>, 6, 1, 0; 2014 QA<sub>3</sub>, 3, 1, 0; 2014 QB<sub>3</sub>, 3, 1,  
0; 2014 QD<sub>3</sub>, 3, 1, 0; 2014 QE<sub>3</sub>, 6, 1, 0; 2014 QM<sub>32</sub>, 6, 1, 0; 2014 QS<sub>33</sub>, 3, 1, 0; 2014 QV<sub>33</sub>, 3, 1,  
0; 2014 QW<sub>33</sub>, 6, 1, 0; 2014 QX<sub>33</sub>, 3, 1, 0; 2014 QY<sub>33</sub>, 3, 1, 0; 2014 QA<sub>43</sub>, 6, 2, 1; 2014 QV<sub>169</sub>,  
3, 1, 0; 2014 QB<sub>266</sub>, 3, 1, 0; 2014 QL<sub>266</sub>, 3, 1, 0; 2014 QM<sub>266</sub>, 3, 1, 0; 2014 QO<sub>295</sub>, 2, 1, 0;  
2014 QS<sub>295</sub>, 2, 1, 0; 2014 QT<sub>295</sub>, 3, 1, 0; 2014 QU<sub>295</sub>, 3, 1, 0; 2014 QV<sub>295</sub>, 3, 1, 0; 2014 QO<sub>296</sub>,  
3, 1, 0; 2014 QT<sub>296</sub>, 3, 1, 0; 2014 QU<sub>296</sub>, 3, 1, 0; 2014 QV<sub>296</sub>, 3, 1, 0; 2014 QJ<sub>362</sub>, 3, 1, 0;  
2014 QK<sub>362</sub>, 3, 1, 0; 2014 QM<sub>362</sub>, 3, 1, 0; 2014 QN<sub>362</sub>, 3, 1, 0; 2014 QP<sub>362</sub>, 3, 1, 0; 2014 QP<sub>362</sub>,  
3, 1, 0; 2014 QR<sub>362</sub>, 3, 1, 0; 2014 QS<sub>362</sub>, 2, 1, 0; 2014 QU<sub>362</sub>, 3, 1, 0; 2014 QW<sub>362</sub>, 3, 1, 0;  
2014 QN<sub>363</sub>, 3, 1, 0; 2014 QP<sub>363</sub>, 3, 1, 0; 2014 QY<sub>363</sub>, 3, 1, 0; 2014 QE<sub>364</sub>, 3, 1, 0; 2014 QD<sub>365</sub>,  
3, 1, 0; 2014 QG<sub>365</sub>, 2, 1, 0; 2014 QD<sub>391</sub>, 2, 1, 0; 2014 QD<sub>433</sub>, 3, 1, 0; 2014 QF<sub>433</sub>, 9, 1, 0;  
2014 QE<sub>434</sub>, 3, 1, 0; (135491), 3, 1, 0; (141364), 3, 1, 0; (259837), 3, 1, 0; (318729), 3, 1, 0;  
(402872), 3, 1, 0; [223, 67, 0\*, 2013/04/10–2014/09/02]

### 583 Odessa-Mayaki

I. Stogneeva, 1B Marazliyiv'ska Street, UA-65014 Odessa, Ukraine

[skyiris@ukr.net]

Observers V. Kashuba, Y. Gorbanev, S. Podlesnyak, V. Zhukov, S. Kashuba



Measurer I. Stogneeva

0.80-m  $f/3.0$  hyperbolic astrograph + CCD

USNO-A2.0

(137170), 22, 1, 0; (162483), 46, 1, 0; (276049), 10, 2, 2; [78, 3, 0\*, 2014/07/07–2014/07/27]

### 585 Kyiv comet station

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

Observers A. Baransky, Y. Romanyuk, I. Kulyk, B. Goncharenko, B. Baransky, A. Simon

0.7-m  $f/4$  reflector + CCD

UCAC-4

2014 QL<sub>32</sub>, 5, 1, 0; 2014 RE<sub>11</sub>, 8, 1, 0; 2014 RJ<sub>11</sub>, 5, 1, 0; (2060), 45, 5, 30; (28356), 3, 1, 0; (50313), 21, 2, 1; (117831), 9, 1, 0; (223732), 3, 1, 0; [99, 8, 0\*, 2014/07/31–2014/09/04]

### 586 Pic du Midi

C. Cavadore, Mitterweg Str. 2, D-85748 Garching bei München, Germany [ccavador@eso.org]

Observers F. Vachier, M. Laas-Bourez, F. Colas, O. Bautista, E. Frappa, M. Lavayssière, R. Behrend

1.05-m  $f/12$  reflector + CCD

PPMXL, UCAC-2

(84922), 13, 1, 0; (124926), 4, 1, 0; [17, 2, 0\*, 2014/02/19]

### 589 Santa Lucia Stroncone

A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy

[vagnozzi@freenet.hut.fi]

0.50-m  $f/2.8$  Ritchey-Chrétien + CCD

USNO-A1.0

2011 SP<sub>4</sub>, 2, 1, 0; [2, 1, 0\*, 1997/10/25]

### 595 Farra d'Isonzo

L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy

[ccaf@ccaf.it]

Observers E. Pettarin, F. Piani, L. Bittesini, M. Vivona

0.40-m  $f/4.5$  reflector + CCD, 0.61-m  $f/4.0$  reflector + CCD

UCAC-4

2014 PS<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PW<sub>59</sub>, 2, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QX<sub>33</sub>, 3, 1, 0; 2014 QT<sub>362</sub>, 2, 1, 0; [19, 7, 0\*, 2014/08/14–2014/08/29]

### 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

2005 TS<sub>68</sub>, 3, 1, 0; 2005 WA<sub>67</sub>, 4, 1, 0; 2007 HE<sub>49</sub>, 4, 1, 0; 2009 QN<sub>58</sub>, 4, 1, 0; 2010 AU<sub>117</sub>, 4, 1, 0; 2011 SS<sub>82</sub>, 3, 1, 0; 2011 SU<sub>219</sub>, 4, 1, 0; 2014 CH<sub>21</sub>, 3, 1, 0; 2014 EB<sub>11</sub>, 4, 1, 0; 2014 FF<sub>57</sub>, 4, 1, 0; 2014 HZ<sub>152</sub>, 3, 1, 0; 2014 KZ<sub>75</sub>, 4, 1, 0; 2014 LX<sub>10</sub>, 2, 1, 0; 2014 NH<sub>45</sub>, 4, 1, 0; 2014 OX<sub>59</sub>, 4, 1, 0; 2014 OB<sub>67</sub>, 4, 1, 0; 2014 OF<sub>68</sub>, 2, 1, 0; 2014 OH<sub>279</sub>, 4, 1, 0; 2014 PH<sub>5</sub>, 4, 1, 0; 2014 PU<sub>21</sub>, 4, 1, 0; [72, 20, 0\*, 2003/02/25–2005/05/28]

### 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 S. Pravdo, M. Hicks, K. Lawrence, D. MacDonald, P. Kervin,

J. Africano, R. Bamberg, E. Helin, R. Thicksten

Measurers R. J. Bouma, M. Kusiak, M. Żołnowski

1.2-m reflector + CCD

USNO-B1.0

2002 PR<sub>140</sub>, 3, 1, 0; 2002 SA<sub>28</sub>, 8, 3, 37; 2004 BX<sub>75</sub>, 3, 1, 0; 2005 QB<sub>16</sub>, 3, 1, 0; 2006 AV<sub>22</sub>, 2, 1, 0; 2007 RM<sub>119</sub>, 3, 1, 0; 2007 UH<sub>128</sub>, 3, 1, 0; 2008 UR<sub>223</sub>, 9, 3, 29; 2009 VO<sub>30</sub>, 3, 1, 0; 2009 WH<sub>139</sub>, 3, 1, 0; 2010 CP<sub>49</sub>, 3, 1, 0; 2010 JV<sub>45</sub>, 3, 1, 0; 2011 VB<sub>13</sub>, 3, 1, 0; 2012 VL<sub>27</sub>, 3, 1, 0; 2012 VS<sub>61</sub>, 2, 1, 0; 2013 HP<sub>22</sub>, 3, 1, 0; 2014 JQ<sub>22</sub>, 3, 1, 0; 2014 KP<sub>39</sub>, 5, 2, 8; 2014 LZ<sub>9</sub>, 3, 1, 0; 2014 MQ<sub>18</sub>, 6, 2, 27; 2014 MS<sub>22</sub>, 3, 1, 0; 2014 MO<sub>23</sub>, 3, 1, 0; 2014 MX<sub>33</sub>, 3, 1, 0; 2014 OA<sub>1</sub>, 3, 1, 0; 2014 OX<sub>96</sub>, 3, 1, 0; 2014 OU<sub>111</sub>, 3, 1, 0; 2014 OF<sub>127</sub>, 3, 1, 0; 2014 OT<sub>276</sub>, 3, 1, 0; 2014 OA<sub>307</sub>, 3, 1, 0; 2014 OE<sub>344</sub>, 3, 1, 0; 2014 OU<sub>345</sub>, 3, 1, 0; [107, 31, 0\*, 2000/10/05–2005/09/05]

### 619 Sabadell

F. Casarramona, P.O. Box 50, E-8200 Sabadell (BCN), Spain

[astrosab@redestb.es]

Observer C. Perello

0.50-m  $f/4$  Newtonian reflector + CCD

UCAC-4

2013 WT<sub>67</sub>, 3, 1, 0; (285944), 3, 1, 0; [6, 2, 0\*, 2014/08/17]

### 621 Bergisch Gladbach

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

0.60-m  $f/5.2$  reflector + CCD

UCAC-4

2006 BP<sub>33</sub>, 3, 1, 0; 2009 PP<sub>17</sub>, 3, 1, 0; 2009 WP<sub>195</sub>, 3, 1, 0; 2010 CF<sub>13</sub>, 3, 1, 0; 2010 UR<sub>44</sub>, 2, 1, 0; 2014 KC<sub>26</sub>, 3, 1, 0; 2014 LL<sub>14</sub>, 3, 1, 0; 2014 MG<sub>15</sub>, 10, 3, 5; 2014 ME<sub>48</sub>, 3, 1, 0; 2014 OO<sub>113</sub>, 3, 1, 0; 2014 OZ<sub>122</sub>, 4, 1, 0; 2014 OK<sub>126</sub>, 3, 1, 0; 2014 OT<sub>240</sub>, 3, 1, 0; 2014 OZ<sub>344</sub>, 4, 1, 0; 2014 PC<sub>2</sub>, 6, 2, 3; 2014 PE<sub>17</sub>, 3, 1, 0; 2014 PC<sub>30</sub>, 3, 1, 0; (173753), 3, 1, 0; (189895), 3, 1, 0; (252272), 3, 1, 0; (316968), 3, 1, 0; [74, 21, 0\*, 1997/09/28–2014/09/03]

### 628 Mülheim-Ruhr

A. Martin, Turtle Star Observatory, Friedhostr. 15, D-45478 Mülheim-Ruhr, Germany [axelm@bph.ruhr-uni-bochum.de]

Observers A. Martin, K. Kleemann-Boeker

0.35-m  $f/5.4$  reflector + CCD, 0.30-m  $f/5$  reflector + CCD

USNO-B1.0

2008 RT<sub>27</sub>, 2, 1, 0; [2, 1, 0\*, 2014/09/05]

### 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. J. Lawrence, R. Thicksten,

E. F. Helin, K. Kulhiwa

Measurers R. J. Bouma, R. Reszelewski, R. Matson, S. Kürti, M. Kusiak,

M. Żołnowski

1.2-m Oschin Schmidt + CCD

USNO-B1.0, USNO-A2.0

1999 JD<sub>111</sub>, 3, 1, 0; 2000 YX<sub>133</sub>, 3, 1, 0; 2001 UO<sub>226</sub>, 3, 1, 0; 2001 VH<sub>132</sub>, 9, 3, 14; 2002 CT<sub>46</sub>, 2, 1, 0; 2002 EC<sub>2</sub>, 2, 1, 0; 2002 EM<sub>104</sub>, 6, 2, 11; 2002 OK<sub>30</sub>, 7, 3, 30; 2002 PF<sub>99</sub>, 3, 1, 0; 2002 PR<sub>140</sub>, 5, 2, 18; 2002 PR<sub>175</sub>, 8, 3, 62; 2002 PY<sub>176</sub>, 6, 2, 15; 2002 PF<sub>177</sub>, 6, 2, 4; 2002 PT<sub>177</sub>, 8, 3, 9; 2002 PC<sub>179</sub>, 7, 2, 12; 2002 QY<sub>1</sub>, 10, 4, 54; 2002 RR<sub>25</sub>, 2, 1, 0; 2002 RW<sub>194</sub>, 4, 2, 7; 2002 RG<sub>286</sub>, 6, 2, 11; 2002 SY<sub>26</sub>, 6, 2, 68; 2002 SA<sub>28</sub>, 5, 2, 22; 2002 SP<sub>29</sub>, 3, 1, 0; 2002 SZ<sub>43</sub>, 9, 3, 45; 2002 XT<sub>72</sub>, 5, 2, 17; 2003 YY<sub>80</sub>, 3, 1, 0; 2004 BX<sub>75</sub>, 11, 4, 42; 2004 BQ<sub>134</sub>, 8, 2, 8; 2005 GF<sub>180</sub>, 6, 2, 54; 2005 JG<sub>55</sub>, 8, 3, 21; 2005 KQ<sub>7</sub>, 3, 1, 0; 2005 NF<sub>42</sub>, 3, 1, 0; 2005 QB<sub>16</sub>, 3, 1, 0; 2005 XN<sub>71</sub>, 3, 1, 0; 2006 AS<sub>74</sub>, 3, 1, 0; 2006 FH<sub>32</sub>, 3, 1, 0; 2006 KN<sub>120</sub>, 6, 2, 8; 2006 SS<sub>110</sub>, 3, 1, 0; 2006 SO<sub>114</sub>, 7, 3, 42; 2006 SL<sub>254</sub>, 6, 2, 10; 2006 TM<sub>46</sub>, 12, 4, 30; 2006 TG<sub>85</sub>, 5, 2, 8; 2006 US<sub>31</sub>, 8, 3, 28; 2006 UT<sub>252</sub>, 12, 3, 45; 2006 VU<sub>63</sub>, 9, 3, 19; 2006 VB<sub>114</sub>, 3, 1, 0; 2007 DC<sub>39</sub>, 9, 2, 11; 2007 RC<sub>11</sub>,



3, 1, 0; 2007 RM<sub>310</sub>, 6, 2, 516; 2007 TQ<sub>28</sub>, 3, 1, 0; 2007 TF<sub>72</sub>, 6, 2, 10; 2007 TW<sub>128</sub>, 3, 1, 0; 2007 TL<sub>189</sub>, 3, 1, 0; 2007 TW<sub>422</sub>, 4, 2, 9; 2007 UG<sub>88</sub>, 8, 3, 30; 2007 UH<sub>128</sub>, 3, 1, 0; 2007 UB<sub>131</sub>, 6, 2, 9; 2007 VV<sub>2</sub>, 3, 1, 0; 2007 VH<sub>335</sub>, 3, 1, 0; 2007 XV<sub>17</sub>, 6, 2, 10; 2007 XJ<sub>37</sub>, 11, 4, 71; 2007 YX<sub>40</sub>, 10, 3, 30; 2008 AT<sub>108</sub>, 10, 4, 36; 2008 CV<sub>21</sub>, 3, 1, 0; 2008 CX<sub>48</sub>, 7, 3, 19; 2008 FV<sub>1</sub>, 3, 1, 0; 2008 FL<sub>17</sub>, 5, 2, 7; 2008 FP<sub>74</sub>, 12, 4, 1427; 2008 FC<sub>75</sub>, 3, 1, 0; 2008 FW<sub>95</sub>, 3, 1, 0; 2008 GT<sub>61</sub>, 11, 4, 404; 2008 GJ<sub>77</sub>, 18, 6, 438; 2008 GS<sub>101</sub>, 6, 2, 413; 2008 OL<sub>24</sub>, 14, 5, 27; 2008 QZ<sub>47</sub>, 19, 7, 48; 2008 RT<sub>106</sub>, 8, 3, 17; 2008 RM<sub>121</sub>, 7, 3, 19; 2008 RY<sub>137</sub>, 3, 1, 0; 2008 SA<sub>61</sub>, 2, 1, 0; 2008 ST<sub>65</sub>, 3, 1, 0; 2008 SZ<sub>107</sub>, 5, 2, 32; 2008 SF<sub>147</sub>, 3, 3, 28; 2008 SN<sub>151</sub>, 6, 2, 16; 2008 SA<sub>173</sub>, 6, 2, 11; 2008 SS<sub>206</sub>, 6, 2, 7; 2008 SC<sub>246</sub>, 6, 2, 9; 2008 ST<sub>267</sub>, 12, 3, 30; 2008 SZ<sub>270</sub>, 7, 2, 16; 2008 SM<sub>275</sub>, 3, 1, 0; 2008 TS<sub>7</sub>, 3, 1, 0; 2008 TA<sub>31</sub>, 11, 3, 28; 2008 TS<sub>58</sub>, 5, 2, 20; 2008 TE<sub>126</sub>, 5, 1, 0; 2008 TV<sub>134</sub>, 8, 3, 54; 2008 TP<sub>171</sub>, 5, 2, 10; 2008 TG<sub>184</sub>, 17, 6, 40; 2008 UY<sub>51</sub>, 8, 3, 21; 2008 UQ<sub>131</sub>, 6, 2, 7; 2008 UN<sub>186</sub>, 3, 1, 0; 2008 UR<sub>223</sub>, 8, 3, 37; 2008 UV<sub>226</sub>, 11, 4, 28; 2008 UO<sub>250</sub>, 5, 2, 16; 2008 UQ<sub>301</sub>, 3, 1, 0; 2008 UU<sub>328</sub>, 15, 4, 30; 2008 UZ<sub>365</sub>, 12, 4, 51; 2008 WC<sub>80</sub>, 5, 2, 16; 2008 XD<sub>6</sub>, 6, 2, 8; 2008 YH<sub>50</sub>, 3, 1, 0; 2009 BO<sub>64</sub>, 15, 5, 21; 2009 DO<sub>17</sub>, 7, 2, 1; 2009 HZ<sub>34</sub>, 3, 1, 0; 2009 KD<sub>11</sub>, 3, 1, 0; 2009 RW<sub>65</sub>, 6, 2, 10; 2009 SV<sub>144</sub>, 3, 1, 0; 2009 TX<sub>3</sub>, 3, 1, 0; 2009 VO<sub>30</sub>, 3, 1, 0; 2010 AB<sub>10</sub>, 6, 2, 15; 2010 BQ<sub>5</sub>, 3, 1, 0; 2010 CP<sub>49</sub>, 3, 1, 0; 2010 CU<sub>55</sub>, 3, 1, 0; 2010 HG<sub>71</sub>, 3, 1, 0; 2010 KX<sub>84</sub>, 3, 1, 0; 2010 LW<sub>33</sub>, 3, 1, 0; 2010 MF<sub>96</sub>, 3, 1, 0; 2010 OM<sub>97</sub>, 3, 1, 0; 2010 RS<sub>52</sub>, 3, 1, 0; 2010 RF<sub>64</sub>, 8, 3, 28; 2010 RO<sub>103</sub>, 9, 3, 46; 2010 RZ<sub>126</sub>, 9, 3, 27; 2010 RA<sub>182</sub>, 3, 1, 0; 2010 SS<sub>30</sub>, 3, 1, 0; 2010 SD<sub>36</sub>, 3, 1, 0; 2010 SH<sub>38</sub>, 3, 1, 0; 2010 TD<sub>12</sub>, 3, 1, 0; 2010 TP<sub>17</sub>, 3, 1, 0; 2010 TB<sub>47</sub>, 3, 1, 0; 2010 UP<sub>55</sub>, 3, 1, 0; 2010 UY<sub>101</sub>, 3, 1, 0; 2010 VY<sub>59</sub>, 3, 1, 0; 2010 VP<sub>107</sub>, 3, 1, 0; 2010 VT<sub>174</sub>, 6, 1, 0; 2010 VR<sub>201</sub>, 3, 1, 0; 2010 VZ<sub>218</sub>, 3, 1, 0; 2011 BC<sub>82</sub>, 3, 1, 0; 2011 CV<sub>110</sub>, 3, 1, 0; 2011 DH<sub>5</sub>, 3, 1, 0; 2011 FF<sub>150</sub>, 9, 3, 19; 2011 NR<sub>3</sub>, 12, 4, 425; 2011 PP<sub>13</sub>, 3, 1, 0; 2011 SU<sub>64</sub>, 12, 4, 32; 2011 SV<sub>105</sub>, 7, 3, 37; 2011 SG<sub>107</sub>, 3, 1, 0; 2011 SX<sub>112</sub>, 3, 1, 0; 2011 SQ<sub>154</sub>, 6, 2, 20; 2011 SQ<sub>168</sub>, 5, 2, 10; 2011 SL<sub>183</sub>, 3, 1, 0; 2011 UG<sub>76</sub>, 3, 1, 0; 2011 UE<sub>118</sub>, 11, 4, 29; 2011 UC<sub>126</sub>, 12, 3, 33; 2011 UR<sub>146</sub>, 8, 3, 23; 2011 UG<sub>250</sub>, 9, 3, 31; 2011 UC<sub>272</sub>, 15, 4, 58; 2011 UO<sub>298</sub>, 5, 2, 56; 2011 WD<sub>72</sub>, 3, 1, 0; 2011 WY<sub>106</sub>, 8, 3, 20; 2011 WJ<sub>112</sub>, 3, 1, 0; 2011 YB<sub>1</sub>, 8, 3, 27; 2011 YH<sub>48</sub>, 6, 2, 25; 2011 YW<sub>61</sub>, 5, 2, 7; 2011 YX<sub>67</sub>, 9, 3, 1294; 2012 AY<sub>2</sub>, 3, 1, 0; 2012 AR<sub>5</sub>, 6, 2, 20; 2012 BW<sub>8</sub>, 3, 1, 0; 2012 BO<sub>110</sub>, 3, 1, 0; 2012 BR<sub>134</sub>, 9, 3, 14; 2012 CH<sub>1</sub>, 3, 1, 0; 2012 CZ<sub>6</sub>, 3, 1, 0; 2012 CY<sub>40</sub>, 9, 3, 44; 2012 FF<sub>78</sub>, 3, 1, 0; 2012 GM<sub>22</sub>, 6, 1, 0; 2012 HT<sub>40</sub>, 3, 1, 0; 2012 HN<sub>45</sub>, 12, 4, 50; 2012 LC<sub>19</sub>, 5, 2, 1; 2012 SS<sub>30</sub>, 2, 1, 0; 2012 TT<sub>131</sub>, 15, 4, 30; 2012 UZ<sub>49</sub>, 8, 3, 19; 2012 VG<sub>2</sub>, 3, 1, 0; 2012 VL<sub>27</sub>, 12, 4, 27; 2012 XO<sub>58</sub>, 6, 2, 11; 2012 XB<sub>153</sub>, 9, 3, 21; 2012 YX<sub>2</sub>, 4, 2, 28; 2013 AX<sub>3</sub>, 1, 0; 2013 AV<sub>36</sub>, 9, 3, 421; 2013 AA<sub>95</sub>, 13, 4, 59; 2013 AO<sub>103</sub>, 3, 1, 0; 2013 BC<sub>3</sub>, 3, 1, 0; 2013 CT<sub>35</sub>, 9, 2, 35; 2013 CY<sub>84</sub>, 6, 2, 1051; 2013 DT<sub>9</sub>, 89, 2, 1; 2013 EA<sub>38</sub>, 3, 1, 0; 2013 EN<sub>60</sub>, 3, 1, 0; 2013 EM<sub>94</sub>, 3, 1, 0; 2013 EH<sub>101</sub>, 3, 1, 0; 2013 EC<sub>122</sub>, 3, 1, 0; 2013 FR<sub>5</sub>, 6, 2, 10; 2013 GJ<sub>133</sub>, 6, 2, 27; 2013 HC<sub>11</sub>, 3, 1, 0; 2013 JU<sub>11</sub>, 3, 1, 0; 2013 NW<sub>22</sub>, 3, 1, 0; 2013 PV<sub>10</sub>, 2, 1, 0; 2013 PJ<sub>37</sub>, 15, 5, 36; 2013 PM<sub>59</sub>, 23, 7, 62; 2013 QS<sub>18</sub>, 7, 2, 12; 2013 RY<sub>52</sub>, 9, 3, 31; 2013 RE<sub>81</sub>, 3, 1, 0; 2013 SZ<sub>26</sub>, 3, 1, 0; 2013 SJ<sub>29</sub>, 6, 2, 1; 2013 TT<sub>25</sub>, 3, 1, 0; 2013 TT<sub>33</sub>, 5, 2, 16; 2013 TS<sub>40</sub>, 9, 3, 26; 2013 TH<sub>76</sub>, 9, 2, 16; 2013 TZ<sub>77</sub>, 3, 1, 0; 2013 TK<sub>98</sub>, 17, 4, 37; 2013 WA<sub>28</sub>, 11, 4, 29; 2013 WH<sub>45</sub>, 11, 4, 16; 2013 WV<sub>52</sub>, 15, 5, 59; 2013 WO<sub>57</sub>, 3, 1, 0; 2014 CO<sub>9</sub>, 3, 1, 0; 2014 CZ<sub>10</sub>, 6, 2, 30; 2014 DN<sub>7</sub>, 2, 15; 2014 DE<sub>21</sub>, 3, 1, 0; 2014 DX<sub>62</sub>, 8, 3, 19; 2014 DQ<sub>72</sub>, 3, 1, 0; 2014 DF<sub>142</sub>, 3, 1, 0; 2014 EZ<sub>8</sub>, 6, 2, 22; 2014 ET<sub>36</sub>, 3, 1, 0; 2014 EP<sub>44</sub>, 3, 1, 0; 2014 EV<sub>46</sub>, 3, 1, 0; 2014 FE<sub>30</sub>, 3, 1, 0; 2014 FL<sub>41</sub>, 9, 3, 17; 2014 FU<sub>49</sub>, 3, 1, 0; 2014 GY<sub>48</sub>, 3, 1, 0; 2014 HH<sub>50</sub>, 3, 1, 0; 2014 HK<sub>195</sub>, 3, 1, 0; 2014 JR<sub>15</sub>, 3, 1, 0; 2014 JZ<sub>19</sub>, 3, 1, 0; 2014 JN<sub>33</sub>, 3, 1, 0; 2014 JE<sub>59</sub>, 3, 1, 0; 2014 JL<sub>75</sub>, 3, 1, 0; 2014 JY<sub>78</sub>, 6, 2, 911; 2014 JG<sub>79</sub>, 3, 1, 0; 2014 KS<sub>29</sub>, 3, 1, 0; 2014 KP<sub>39</sub>, 3, 1, 0; 2014 KQ<sub>57</sub>, 3, 1, 0; 2014 KX<sub>61</sub>, 3, 1, 0; 2014 KZ<sub>75</sub>, 3, 1, 0; 2014 KH<sub>90</sub>, 6, 2, 24; 2014 KP<sub>101</sub>, 3, 1, 0; 2014 LZ<sub>9</sub>, 15, 5, 90; 2014 LO<sub>15</sub>, 3, 1, 0; 2014 LH<sub>24</sub>, 3, 1, 0; 2014 LY<sub>25</sub>, 8, 3, 56; 2014 LA<sub>28</sub>, 3, 1, 0; 2014 MJ<sub>4</sub>, 3, 1, 0; 2014 MO<sub>5</sub>, 8, 3, 70; 2014 MB<sub>7</sub>, 3, 1, 0; 2014 MB<sub>20</sub>, 3, 1, 0; 2014 MX<sub>26</sub>, 3, 1, 0; 2014 MD<sub>37</sub>, 6, 1, 0; 2014 MA<sub>41</sub>, 3, 1, 0; 2014 MS<sub>48</sub>, 3, 1, 0; 2014 MC<sub>49</sub>, 6, 2, 1409; 2014 MF<sub>50</sub>, 3, 1, 0; 2014 MY<sub>62</sub>, 3, 1, 0; 2014 MO<sub>65</sub>, 6, 2, 444; 2014 ME<sub>69</sub>, 3, 1, 0; 2014 NY<sub>1</sub>, 3, 1, 0; 2014 NE<sub>20</sub>, 6, 2, 940; 2014 NF<sub>20</sub>, 6, 2, 940; 2014 NT<sub>30</sub>, 3, 1, 0; 2014 NQ<sub>49</sub>, 3, 1, 0; 2014 NT<sub>50</sub>, 3, 1, 0; 2014 NR<sub>54</sub>, 3, 1, 0; 2014 ND<sub>56</sub>, 3, 1, 0; 2014 ND<sub>58</sub>, 15, 4, 22; 2014 NU<sub>59</sub>, 3, 1, 0; 2014 NL<sub>61</sub>, 3, 1, 0; 2014 NM<sub>65</sub>, 3, 1, 0; 2014 ON<sub>2</sub>, 3, 1, 0; 2014 ON<sub>4</sub>, 3, 1, 0; 2014 OW<sub>5</sub>, 6, 2, 24; 2014 OB<sub>6</sub>, 3, 1, 0; 2014 OP<sub>35</sub>, 3, 1, 0; 2014 OR<sub>42</sub>, 3, 1, 0; 2014 OV<sub>46</sub>, 3, 1, 0; 2014 OX<sub>59</sub>, 3, 1, 0; 2014 OS<sub>64</sub>, 3, 1, 0; 2014 OU<sub>73</sub>, 9, 3, 472; 2014 OT<sub>88</sub>, 3, 1, 0; 2014 OR<sub>94</sub>, 3, 1, 0; 2014 OO<sub>95</sub>, 3, 1, 0; 2014 OX<sub>96</sub>, 3, 1, 0; 2014 OK<sub>97</sub>, 3, 1, 0; 2014 OU<sub>103</sub>, 3, 1, 0; 2014 OA<sub>107</sub>, 3, 1, 0; 2014 OP<sub>107</sub>, 3, 1, 0; 2014 OD<sub>108</sub>, 3, 1, 0; 2014 OY<sub>110</sub>, 3, 1, 0; 2014 OU<sub>111</sub>, 3, 1, 0; 2014 OC<sub>112</sub>, 3, 1, 0; 2014 ON<sub>115</sub>, 3, 1, 0; 2014 OC<sub>123</sub>, 3, 1, 0; 2014 OJ<sub>129</sub>, 3, 1, 0; 2014 OP<sub>154</sub>, 3, 1, 0; 2014 OM<sub>155</sub>, 9, 2, 8; 2014 OB<sub>157</sub>, 9, 2, 900; 2014 OL<sub>158</sub>, 3, 1, 0; 2014 OJ<sub>161</sub>, 3, 1, 0; 2014 OR<sub>168</sub>, 3, 1, 0; 2014 ON<sub>179</sub>, 3, 1, 0; 2014 OB<sub>181</sub>, 6, 2, 506; 2014 OR<sub>181</sub>, 6, 2, 6; 2014 OQ<sub>186</sub>, 3, 1, 0; 2014 OV<sub>187</sub>, 3, 1, 0; 2014 OD<sub>188</sub>, 3, 1, 0; 2014 OP<sub>188</sub>, 9, 3, 989; 2014 OH<sub>191</sub>, 3, 1, 0; 2014 OH<sub>199</sub>, 3, 1, 0; 2014 OG<sub>225</sub>, 6, 2, 1352; 2014 OL<sub>233</sub>, 6, 2, 8; 2014 OX<sub>236</sub>, 3, 1, 0; 2014 OH<sub>254</sub>, 3, 1, 0; 2014 OE<sub>263</sub>, 3, 1, 0; 2014 OX<sub>281</sub>, 3, 1, 0; 2014 OM<sub>316</sub>, 3, 1, 0; 2014 OX<sub>316</sub>, 3, 1, 0; 2014 OR<sub>333</sub>, 3, 1, 0; 2014 OT<sub>343</sub>, 3, 1, 0; 2014 OU<sub>345</sub>, 3, 1, 0; 2014 OO<sub>372</sub>, 3, 1, 0; 2014 PC<sub>2</sub>, 3, 1, 0; 2014 PM<sub>16</sub>, 3, 1, 0; 2014 PA<sub>22</sub>, 3, 1, 0; 2014 PQ<sub>24</sub>, 6, 2, 22; 2014 PO<sub>32</sub>, 3, 1, 0; 2014 PL<sub>36</sub>, 3, 1, 0; 2014 PT<sub>37</sub>, 3, 1, 0; 2014 PS<sub>38</sub>, 3, 1, 0; 2014 PB<sub>51</sub>, 3, 1, 0; 2014 QO<sub>1</sub>, 3, 1, 0; 2014 RH<sub>3</sub>, 3, 1, 0; (347520), 6, 2, 10; [1960, 354, 0\*, 2001/07/19–2007/03/08]

## 645 Apache Point–Sloan Digital Sky Survey

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Observers Sloan Digital Sky Survey Collaboration

Measurers Z. Ivezić, M. Jurić, R. Lupton, S. Tabachnik, T. Quinn

2.5-m SDSS Telescope + SDSS camera

UCAC-1

2001 SQ<sub>304</sub>, 2, 1, 0; 2002 QG<sub>53</sub>, 2, 1, 0; 2003 SB<sub>258</sub>, 2, 1, 0; 2003 UF<sub>299</sub>, 2, 1, 0; 2004 TQ<sub>155</sub>, 2, 1, 0; 2005 SA<sub>291</sub>, 2, 1, 0; 2005 TS<sub>68</sub>, 2, 1, 0; 2005 VG<sub>64</sub>, 2, 1, 0; 2005 VJ<sub>130</sub>, 2, 1, 0; 2005 YH<sub>44</sub>, 2, 1, 0; 2006 BM<sub>283</sub>, 2, 1, 0; 2006 DJ<sub>142</sub>, 2, 1, 0; 2006 SS<sub>76</sub>, 2, 1, 0; 2006 SS<sub>110</sub>, 2, 1, 0; 2006 SW<sub>247</sub>, 2, 1, 0; 2006 UQ<sub>78</sub>, 2, 1, 0; 2006 WB<sub>72</sub>, 2, 1, 0; 2006 XG<sub>73</sub>, 2, 1, 0; 2007 TW<sub>143</sub>, 2, 1, 0; 2007 TV<sub>383</sub>, 4, 2, 53; 2008 DS<sub>13</sub>, 2, 1, 0; 2008 EY<sub>79</sub>, 2, 1, 0; 2008 EE<sub>100</sub>, 2, 1, 0; 2008 FQ<sub>89</sub>, 2, 1, 0; 2008 GC<sub>121</sub>, 2, 1, 0; 2008 RU<sub>125</sub>, 2, 1, 0; 2008 RB<sub>128</sub>, 2, 1, 0; 2009 BO<sub>64</sub>, 2, 1, 0; 2009 BD<sub>117</sub>, 2, 1, 0; 2009 QR<sub>56</sub>, 2, 1, 0; 2009 RW<sub>21</sub>, 2, 1, 0; 2009 UF<sub>70</sub>, 2, 1, 0; 2009 UC<sub>120</sub>, 2, 1, 0; 2009 WA<sub>234</sub>, 4, 2, 6; 2010 CB<sub>103</sub>, 2, 1, 0; 2010 NM<sub>17</sub>, 2, 1, 0; 2010 OB<sub>21</sub>, 2, 1, 0; 2010 TJ<sub>41</sub>, 2, 1, 0; 2010 TX<sub>131</sub>, 2, 1, 0; 2010 UR<sub>44</sub>, 2, 1, 0; 2010 UP<sub>93</sub>, 2, 1, 0; 2010 UY<sub>101</sub>, 2, 1, 0; 2010 VS<sub>70</sub>, 2, 1, 0; 2010 VE<sub>176</sub>, 2, 1, 0; 2010 VO<sub>179</sub>, 2, 1, 0; 2010 VU<sub>180</sub>, 2, 1, 0; 2010 VW<sub>213</sub>, 2, 1, 0; 2010 VR<sub>217</sub>, 2, 1, 0; 2010 WB<sub>37</sub>, 4, 1, 0; 2010 WL<sub>67</sub>, 2, 1, 0; 2010 XY<sub>69</sub>, 2, 1, 0; 2011 BR<sub>2</sub>, 2, 1, 0; 2011 DH<sub>5</sub>, 4, 2, 20; 2011 QN<sub>16</sub>, 2, 1, 0; 2011 SG<sub>85</sub>, 4, 2, 6; 2011 SY<sub>104</sub>, 2, 1, 0; 2011 UV<sub>257</sub>, 2, 1, 0; 2011 UP<sub>267</sub>, 2, 1, 0; 2011 UN<sub>362</sub>, 2, 1, 0; 2011 US<sub>379</sub>, 2, 1, 0; 2011 WS<sub>87</sub>, 2, 1, 0; 2011 WS<sub>98</sub>, 2, 1, 0; 2011 YH<sub>48</sub>, 2, 1, 0; 2012 AP<sub>13</sub>, 2, 1, 0; 2012 AR<sub>17</sub>, 2, 1, 0; 2012 BO<sub>110</sub>, 2, 1, 0; 2012 BB<sub>122</sub>, 2, 1, 0; 2012 BM<sub>124</sub>, 2, 1, 0; 2012 CP<sub>21</sub>, 4, 2, 27; 2012 CX<sub>37</sub>, 2, 1, 0; 2012 DF<sub>56</sub>, 2, 1, 0; 2012 EN<sub>2</sub>, 2, 1, 0; 2012 EB<sub>13</sub>, 2, 1, 0; 2012 FH<sub>26</sub>, 2, 1, 0; 2012 FZ<sub>43</sub>, 2, 1, 0; 2012 FG<sub>48</sub>, 4, 2, 885; 2012 FZ<sub>79</sub>, 4, 2, 27; 2013 AS<sub>96</sub>, 2, 1, 0; 2013 BA<sub>80</sub>, 2, 1, 0; 2013 CT<sub>11</sub>, 2, 1, 0; 2013 CN<sub>12</sub>, 2, 1, 0; 2013 CK<sub>47</sub>, 2, 1, 0; 2013 CB<sub>68</sub>, 2, 1, 0; 2013 CM<sub>98</sub>, 2, 1, 0; 2013 CT<sub>115</sub>, 2, 1, 0; 2013 CA<sub>123</sub>, 2, 1, 0; 2013 CB<sub>123</sub>, 2, 1, 0; 2013 EZ<sub>16</sub>, 2, 1, 0; 2013 EX<sub>23</sub>, 2, 1, 0; 2013 EG<sub>87</sub>, 2, 1, 0; 2013 FE<sub>20</sub>, 2, 1, 0; 2013 GF<sub>63</sub>, 2, 1, 0; 2013 GX<sub>76</sub>, 2, 1, 0; 2013 GL<sub>88</sub>, 2, 1, 0; 2013 HO<sub>13</sub>, 2, 1, 0; 2013 HU<sub>21</sub>, 2, 1, 0; 2013 HM<sub>32</sub>, 2, 1, 0; 2013 HX<sub>32</sub>, 2, 1, 0; 2013 HF<sub>33</sub>, 2, 1, 0; 2013 HX<sub>46</sub>, 2, 1, 0; 2013 KK<sub>17</sub>, 2, 1, 0; 2014 AW<sub>2</sub>, 2, 1, 0; 2014 BZ<sub>26</sub>, 2, 1, 0; 2014 DY<sub>66</sub>, 2, 1, 0; 2014 DF<sub>142</sub>, 2, 1, 0; 2014 ET<sub>36</sub>, 2, 1, 0; 2014 FL<sub>41</sub>, 4, 2, 6; 2014 GG<sub>27</sub>, 4, 2, 912; 2014 GO<sub>39</sub>, 2, 1, 0; 2014 HW<sub>171</sub>, 2, 1, 0; 2014 HX<sub>180</sub>, 2, 1, 0; 2014 JN<sub>33</sub>, 2, 1, 0; 2014 JJ<sub>40</sub>, 2, 1, 0; 2014 JK<sub>44</sub>, 2, 1, 0; 2014 JE<sub>61</sub>, 2, 1, 0; 2014 KT<sub>27</sub>, 2, 1, 0; 2014 KM<sub>30</sub>, 4, 2, 6; 2014 KU<sub>40</sub>, 2, 1, 0; 2014 KD<sub>42</sub>, 4, 2, 938; 2014 KE<sub>55</sub>, 2, 1, 0; 2014 KQ<sub>57</sub>, 8, 4, 1000; 2014 KZ<sub>61</sub>, 2, 1, 0; 2014 KB<sub>62</sub>, 2, 1, 0; 2014 KL<sub>79</sub>, 2, 1, 0; 2014 KN<sub>80</sub>, 2, 1, 0; 2014 KH<sub>86</sub>, 2, 1, 0; 2014 KB<sub>88</sub>, 2, 1, 0; 2014 KJ<sub>101</sub>, 2, 1, 0; 2014 LZ<sub>6</sub>, 2, 1, 0; 2014 LH<sub>15</sub>, 2, 1, 0; 2014 LS<sub>17</sub>, 4, 2, 26; 2014 LX<sub>17</sub>, 6, 3, 886; 2014 LB<sub>20</sub>, 4, 2, 26; 2014 MK<sub>2</sub>, 2, 1, 0; 2014 ME<sub>13</sub>, 2, 1, 0; 2014 MR<sub>17</sub>, 2, 1, 0; 2014 MX<sub>26</sub>, 2, 1, 0; 2014 MH<sub>37</sub>, 2, 1, 0; 2014 MS<sub>42</sub>, 2, 1, 0; 2014 MC<sub>49</sub>, 4, 2, 1007; 2014 MM<sub>53</sub>, 2, 1, 0; 2014 MS<sub>56</sub>, 2, 1, 0; 2014 MM<sub>57</sub>, 2, 1, 0; 2014 MS<sub>59</sub>, 2, 1, 0; 2014 MY<sub>62</sub>, 2, 1, 0; 2014 NZ<sub>6</sub>, 4, 1, 0; 2014 NP<sub>16</sub>, 2, 1, 0; 2014 NA<sub>37</sub>, 4, 2, 6; 2014 NM<sub>43</sub>, 2, 1, 0; 2014 NT<sub>54</sub>, 4, 1, 0; 2014 NO<sub>59</sub>, 2, 1, 0; 2014 NQ<sub>60</sub>, 2, 1, 0; 2014 NV<sub>61</sub>, 2, 1, 0; 2014 NZ<sub>63</sub>, 2, 1, 0; 2014 OX<sub>5</sub>, 2, 1, 0; 2014 OB<sub>6</sub>, 2, 1, 0; 2014 OK<sub>6</sub>, 2, 1, 0; 2014 OX<sub>12</sub>, 2, 1, 0; 2014 OP<sub>13</sub>, 2, 1, 0; 2014 OO<sub>17</sub>, 2, 1, 0; 2014 OZ<sub>19</sub>, 2, 1, 0; 2014 OT<sub>41</sub>, 2, 1, 0; 2014 OT<sub>44</sub>, 2, 1, 0; 2014 OL<sub>47</sub>, 2, 1, 0; 2014 OV<sub>47</sub>, 4, 2, 6; 2014 OJ<sub>48</sub>, 2, 1, 0; 2014 OD<sub>52</sub>, 2, 1, 0; 2014 OD<sub>53</sub>, 2, 1, 0; 2014 OK<sub>64</sub>, 4, 2, 24; 2014 OG<sub>65</sub>, 2, 1, 0; 2014 OB<sub>67</sub>, 2, 1, 0; 2014 OB<sub>71</sub>, 2, 1, 0; 2014 OU<sub>73</sub>, 4, 2, 111; 2014 OW<sub>76</sub>, 2, 1, 0; 2014 OX<sub>79</sub>, 2, 1, 0; 2014 OX<sub>85</sub>, 2, 1, 0; 2014 OL<sub>90</sub>, 2, 1, 0; 2014 OM<sub>100</sub>, 2, 1, 0; 2014 OU<sub>103</sub>, 2, 1, 0; 2014 OP<sub>107</sub>, 2, 1, 0; 2014 OT<sub>109</sub>, 2, 1, 0; 2014 OY<sub>110</sub>, 2, 1, 0; 2014 OD<sub>116</sub>, 2, 1, 0; 2014 OC<sub>119</sub>, 2, 1, 0; 2014 OF<sub>127</sub>, 2, 1, 0; 2014 OG<sub>130</sub>, 2, 1, 0; 2014 OE<sub>131</sub>, 2, 1, 0; 2014 OE<sub>139</sub>, 2, 1, 0; 2014 OD<sub>143</sub>, 2, 1, 0; 2014 OL<sub>158</sub>, 2, 1, 0; 2014 OM<sub>169</sub>, 2, 1, 0; 2014 OD<sub>180</sub>, 2, 1, 0; 2014 OA<sub>185</sub>, 4, 2, 6; 2014 OG<sub>192</sub>, 2, 1, 0; 2014 OP<sub>192</sub>, 2, 1, 0; 2014 OJ<sub>197</sub>,



(16), 2, 1, 0; (27), 4, 2, 1; (29), 3, 1, 0; (30), 6, 2, 1; (34), 3, 1, 0; (39), 5, 2, 1; (49), 3, 1, 0; (54), 4, 2, 1; (62), 6, 2, 1; (77), 6, 2, 1; (82), 6, 2, 1; (88), 3, 1, 0; (103), 5, 2, 1; (106), 6, 2, 1; (109), 2, 1, 0; (112), 3, 1, 0; (115), 6, 3, 2; (119), 10, 3, 2; (143), 3, 1, 0; (146), 3, 1, 0; (147), 6, 2, 1; (165), 4, 2, 1; (172), 6, 2, 1; (179), 3, 1, 0; (203), 4, 2, 1; (206), 3, 1, 0; (223), 6, 2, 1; (225), 1, 1, 0; (233), 3, 1, 0; (235), 3, 1, 0; (240), 4, 2, 1; (258), 3, 1, 0; (259), 2, 1, 0; (331), 3, 1, 0; (334), 6, 2, 1; (409), 8, 3, 2; (441), 5, 2, 1; (467), 3, 1, 0; (471), 3, 1, 0; (517), 6, 2, 1; (552), 5, 2, 1; (606), 2, 1, 0; (634), 6, 2, 1; (655), 3, 1, 0; (675), 2, 1, 0; (683), 6, 2, 1; (690), 3, 1, 0; (747), 4, 2, 1; (752), 3, 1, 0; (764), 4, 2, 1; (773), 3, 1, 0; (792), 4, 2, 1; (805), 7, 2, 1; (838), 5, 3, 2; (861), 6, 2, 1; (924), 7, 3, 2; (952), 3, 1, 0; (982), 2, 1, 0; (1000), 3, 1, 0; (5357), 2, 1, 0; (5894), 2, 1, 0; (134340), 3, 1, 0; *[256, 62, 0\*, 2014/08/12–2014/08/14]*

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Observer R. A. Tucker

Measurers R. A. Tucker, V. Reddy, J. Kessel

0.35-m  $f/11$  Schmidt-Cassegrain + CCD, 0.35-m  $f/5$  reflector + CCD

GSC-ACT

2014 OB<sub>157</sub>, 3, 1, 0; 2014 PU<sub>55</sub>, 6, 2, 1; *[9, 2, 0\*, 2003/10/23–2005/04/05]*

### 688 Lowell Observatory, Anderson Mesa Station

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2006 AE<sub>35</sub>, 2, 1, 0; 2011 BO<sub>117</sub>, 2, 1, 0; *[4, 2, 0\*, 2001/02/22–2008/07/31]*

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Measurers T. H. Bressi, A. F. Tubbiolo, R. S. McMillan, J. V. Scotti

0.9-m  $f/3$  reflector + CCD

USNO-B1.0

1998 BN<sub>9</sub>, 3, 1, 0; 1998 BU<sub>16</sub>, 3, 1, 0; 1998 BU<sub>38</sub>, 3, 1, 0; 1998 QF<sub>1</sub>, 3, 1, 0; 1998 QO<sub>58</sub>, 12, 4, 2725; 1998 RU<sub>48</sub>, 6, 2, 3; 1998 SR<sub>20</sub>, 6, 2, 4911; 1998 SR<sub>32</sub>, 3, 1, 0; 1998 TQ<sub>22</sub>, 6, 2, 4; 1999 BV<sub>28</sub>, 3, 1, 0; 1999 JD<sub>111</sub>, 6, 2, 1041; 1999 UV<sub>32</sub>, 9, 3, 8; 1999 VF<sub>75</sub>, 3, 1, 0; 2000 CL<sub>73</sub>, 3, 1, 0; 2000 DJ<sub>89</sub>, 6, 2, 3; 2000 QA<sub>115</sub>, 9, 3, 9; 2000 SF<sub>30</sub>, 6, 2, 8; 2000 TX<sub>25</sub>, 6, 2, 4; 2000 UR<sub>25</sub>, 9, 3, 1861; 2001 FO<sub>219</sub>, 3, 1, 0; 2001 NH<sub>13</sub>, 3, 1, 0; 2001 PT<sub>60</sub>, 15, 5, 1449; 2001 QX, 6, 2, 4; 2001 QR<sub>100</sub>, 3, 1, 0; 2001 QP<sub>127</sub>, 6, 2, 2693; 2001 QC<sub>210</sub>, 3, 1, 0; 2001 QD<sub>215</sub>, 6, 2, 2777; 2001 QN<sub>329</sub>, 6, 2, 7; 2001 RQ<sub>43</sub>, 3, 1, 0; 2001 RD<sub>98</sub>, 3, 1, 0; 2001 RZ<sub>109</sub>, 3, 1, 0; 2001 RG<sub>140</sub>, 3, 1, 0; 2001 SO<sub>89</sub>, 3, 1, 0; 2001 SD<sub>91</sub>, 6, 2, 4; 2001 SJ<sub>95</sub>, 3, 1, 0; 2001 SU<sub>144</sub>, 6, 2, 1961; 2001 SV<sub>159</sub>, 3, 1, 0; 2001 SR<sub>166</sub>, 6, 2, 4; 2001 SB<sub>192</sub>, 6, 2, 1565; 2001 SK<sub>193</sub>, 6, 2, 2; 2001 SK<sub>219</sub>, 6, 2, 2; 2001 SQ<sub>225</sub>, 3, 1, 0; 2001 SA<sub>294</sub>, 9, 3, 5; 2001 SL<sub>323</sub>, 3, 1, 0; 2001 TL<sub>86</sub>, 6, 2, 2; 2001 TA<sub>162</sub>, 3, 1, 0; 2001 TM<sub>183</sub>, 3, 1, 0; 2001 TL<sub>222</sub>, 3, 1, 0; 2001 TT<sub>232</sub>, 3, 1, 0; 2001 TJ<sub>259</sub>, 6, 2, 8; 2001 TH<sub>262</sub>, 9, 3, 8; 2001 UR<sub>4</sub>, 9, 3, 1885; 2001 UD<sub>25</sub>, 6, 2, 3; 2001 UJ<sub>42</sub>, 3, 1, 0; 2001 UO<sub>226</sub>, 9, 3, 505; 2001 UQ<sub>231</sub>, 3, 1, 0; 2001 WD<sub>72</sub>, 6, 2, 2; 2001 WO<sub>95</sub>, 12, 4, 3783; 2001 YY<sub>35</sub>, 3, 1, 0; 2002 AZ<sub>43</sub>, 3, 1, 0; 2002 CM<sub>128</sub>, 3, 1, 0; 2002 CK<sub>133</sub>, 3, 1, 0; 2002 CB<sub>246</sub>, 3, 1, 0; 2002 CO<sub>257</sub>, 6, 1, 0; 2002 EH<sub>147</sub>, 3, 1, 0; 2002 GO<sub>2</sub>, 6, 2, 4; 2002 JO<sub>9</sub>, 3, 1, 0; 2002 JX<sub>136</sub>, 3, 1, 0; 2002 JB<sub>151</sub>, 3, 1, 0; 2002 NC<sub>76</sub>, 3, 1, 0; 2002 OR<sub>26</sub>, 6, 2, 4; 2002 OK<sub>30</sub>, 3, 1, 0; 2002 QR<sub>121</sub>, 3, 1, 0; 2002 QW<sub>126</sub>, 3, 1, 0; 2002 RS<sub>164</sub>, 24, 8, 5831; 2002 RW<sub>194</sub>, 3, 1, 0; 2002 RA<sub>283</sub>, 6, 2, 4; 2002 SP, 3, 1, 0; 2002 TL<sub>102</sub>, 3, 1, 0; 2002 TM<sub>149</sub>, 21, 7, 2935; 2002 TP<sub>328</sub>, 6, 2, 974; 2002 UT<sub>56</sub>, 3, 1, 0; 2002 VK<sub>64</sub>, 3, 1, 0; 2002 VE<sub>105</sub>, 3, 1, 0; 2003 AF<sub>42</sub>, 6, 2, 3; 2003 DU<sub>4</sub>, 3, 1, 0; 2003 EJ<sub>46</sub>, 3, 1, 0; 2003 QN<sub>14</sub>, 3, 1, 0; 2003 QH<sub>48</sub>, 3, 1, 0; 2003 QL<sub>59</sub>, 3, 1, 0; 2003 QW<sub>66</sub>, 3, 1, 0; 2003 QL<sub>90</sub>, 6, 2, 4; 2003 QM<sub>95</sub>, 3, 1, 0; 2003 RM<sub>11</sub>, 3, 1, 0; 2003 RL<sub>13</sub>, 6, 2, 4; 2003 RV<sub>20</sub>, 3, 1, 0; 2003 SH<sub>29</sub>, 6, 2, 4; 2003 SK<sub>31</sub>, 3, 1, 0; 2003 SA<sub>43</sub>, 3, 1, 0; 2003 SJ<sub>83</sub>, 3, 1, 0; 2003 SU<sub>90</sub>, 3, 1, 0; 2003 SH<sub>111</sub>, 6, 1, 0; 2003 SS<sub>121</sub>, 3, 1, 0; 2003 SU<sub>132</sub>, 6, 2, 4; 2003 SY<sub>151</sub>, 3, 1, 0; 2003 SF<sub>165</sub>, 6, 2, 4; 2003 SW<sub>170</sub>, 3, 1, 0; 2003 SY<sub>226</sub>, 3, 1, 0; 2003 ST<sub>230</sub>, 6, 2, 4; 2003 SQ<sub>239</sub>, 3, 1, 0; 2003 SM<sub>240</sub>, 6, 2, 3; 2003 SL<sub>244</sub>, 3, 1, 0; 2003 SZ<sub>262</sub>, 6, 2, 2215; 2003 SY<sub>285</sub>, 3, 1, 0; 2003 SV<sub>322</sub>, 3, 1, 0; 2003 SZ<sub>322</sub>, 3, 1, 0; 2003 SY<sub>323</sub>, 3, 1, 0; 2003 SM<sub>324</sub>, 3, 1, 0; 2003 SU<sub>325</sub>, 6, 2, 4; 2003 SZ<sub>326</sub>, 3, 1, 0; 2003 SV<sub>328</sub>, 9, 3, 8; 2003 SE<sub>341</sub>, 6, 2, 4; 2003 SO<sub>346</sub>, 3, 1, 0; 2003 SK<sub>349</sub>, 8, 3, 3995; 2003 SW<sub>349</sub>, 3, 1, 0; 2003 SQ<sub>360</sub>, 3, 1, 0; 2003 SK<sub>364</sub>, 3, 1, 0; 2003 SZ<sub>365</sub>, 6, 2, 4; 2003 SO<sub>392</sub>, 6, 2, 467; 2003 SY<sub>397</sub>, 3, 1, 0; 2003 SD<sub>400</sub>, 6, 2, 4; 2003 SQ<sub>402</sub>, 3, 1, 0; 2003 SC<sub>422</sub>, 3, 1, 0; 2003 SV<sub>424</sub>, 3, 1, 0; 2003 SA<sub>429</sub>, 6, 2, 4; 2003 SB<sub>429</sub>, 3, 1, 0; 2003 SM<sub>432</sub>, 3, 1, 0; 2003 ST<sub>432</sub>, 6, 2, 4; 2003 TC<sub>36</sub>, 6, 2, 4; 2003 TW<sub>39</sub>, 3, 1, 0; 2003 TJ<sub>40</sub>, 3, 1, 0; 2003 TB<sub>45</sub>, 3, 1, 0; 2003 TN<sub>45</sub>, 6, 2, 3102;

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2003 WL<sub>27</sub>, 9, 3, 955; 2003 WM<sub>27</sub>, 6, 2, 4; 2003 WO<sub>39</sub>, 3, 1, 0; 2003 WC<sub>40</sub>, 6, 2, 2; 2003 WB<sub>44</sub>, 3, 1, 0; 2003 WZ<sub>44</sub>, 3, 1, 0; 2003 WF<sub>60</sub>, 3, 1, 0; 2003 WR<sub>124</sub>, 3, 1, 0; 2003 YG<sub>18</sub>, 6, 2, 4; 2003 YR<sub>82</sub>, 3, 1, 0; 2003 YN<sub>166</sub>, 6, 2, 12; 2004 DR<sub>13</sub>, 3, 1, 0; 2004 ED<sub>20</sub>, 3, 1, 0; 2004 EV<sub>36</sub>, 3, 1, 0; 2004 EZ<sub>91</sub>, 3, 1, 0; 2004 RK<sub>9</sub>, 6, 2, 4; 2004 RA<sub>31</sub>, 3, 1, 0; 2004 RV<sub>52</sub>, 6, 2, 1042; 2004 RQ<sub>72</sub>, 9, 3, 8; 2004 RQ<sub>73</sub>, 6, 2, 4; 2004 RT<sub>98</sub>, 3, 1, 0; 2004 RX<sub>98</sub>, 9, 3, 5; 2004 RU<sub>153</sub>, 3, 1, 0; 2004 RF<sub>159</sub>, 9, 3, 5; 2004 RY<sub>211</sub>, 3, 1, 0; 2004 RK<sub>236</sub>, 6, 2, 2033; 2004 RU<sub>240</sub>, 6, 2, 4; 2004 RS<sub>256</sub>, 6, 2, 1; 2004 RX<sub>269</sub>, 3, 1, 0; 2004 RJ<sub>272</sub>, 3, 1, 0; 2004 RP<sub>293</sub>, 3, 1, 0; 2004 RH<sub>299</sub>, 6, 2, 8; 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2005 EY<sub>104</sub>, 6, 2, 4; 2005 GM<sub>44</sub>, 3, 1, 0; 2005 GP<sub>128</sub>, 8, 3, 8; 2005 GX<sub>205</sub>, 12, 4, 4288; 2005 JU<sub>55</sub>, 9, 3, 2880; 2005 LQ<sub>1</sub>, 3, 1, 0; 2005 LT<sub>19</sub>, 3, 1, 0; 2005 NB<sub>52</sub>, 6, 2, 34; 2005 OC<sub>9</sub>, 3, 1, 0; 2005 OV<sub>13</sub>, 12, 4, 3824; 2005 OM<sub>18</sub>, 3, 1, 0; 2005 ON<sub>27</sub>, 3, 1, 0; 2005 QH<sub>4</sub>, 6, 2, 1; 2005 QK<sub>46</sub>, 3, 1, 0; 2005 QB<sub>60</sub>, 9, 3, 9; 2005 QE<sub>81</sub>, 3, 1, 0; 2005 QN<sub>88</sub>, 3, 1, 0; 2005 QL<sub>99</sub>, 6, 2, 4; 2005 QQ<sub>117</sub>, 6, 2, 4; 2005 QX<sub>121</sub>, 3, 1, 0; 2005 QA<sub>123</sub>, 3, 1, 0; 2005 QY<sub>128</sub>, 6, 2, 4; 2005 QB<sub>129</sub>, 6, 2, 4; 2005 QC<sub>134</sub>, 3, 1, 0; 2005 QM<sub>135</sub>, 3, 1, 0; 2005 QO<sub>137</sub>, 6, 2, 4; 2005 QY<sub>142</sub>, 3, 1, 0; 2005 QS<sub>155</sub>, 6, 2, 4; 2005 QG<sub>156</sub>, 3, 1, 0; 2005 QD<sub>179</sub>, 3, 1, 0; 2005 QN<sub>189</sub>, 9, 3, 8; 2005 RB<sub>26</sub>, 3, 1, 0; 2005 RP<sub>26</sub>, 3, 1, 0; 2005 SY<sub>4</sub>, 2, 1, 0; 2005 SF<sub>10</sub>, 6, 2, 4; 2005 ST<sub>13</sub>, 9, 3, 9; 2005 SY<sub>14</sub>, 3, 1, 0; 2005 SL<sub>16</sub>, 3, 1, 0; 2005 SK<sub>53</sub>, 6, 2, 2; 2005 SO<sub>54</sub>, 6, 2, 4; 2005 SH<sub>61</sub>, 6, 2, 4; 2005 SZ<sub>67</sub>, 3, 1, 0; 2005 SD<sub>72</sub>, 12, 4, 6470; 2005 SJ<sub>74</sub>, 3, 1, 0; 2005 SZ<sub>76</sub>, 6, 2, 4; 2005 SN<sub>82</sub>, 3, 1, 0; 2005 SY<sub>84</sub>, 3, 1, 0; 2005 SD<sub>94</sub>, 3, 1, 0; 2005 SU<sub>108</sub>, 6, 2, 3; 2005 SV<sub>116</sub>, 6, 2, 5; 2005 SA<sub>145</sub>, 3, 1, 0; 2005 SY<sub>160</sub>, 6, 2, 3; 2005 SF<sub>176</sub>, 3, 1, 0; 2005 SV<sub>177</sub>, 3, 1, 0; 2005 SJ<sub>180</sub>, 11, 4, 6555; 2005 SD<sub>182</sub>, 24, 7, 4180; 2005 SO<sub>182</sub>, 6, 2, 4; 2005 SC<sub>212</sub>, 3, 1, 0; 2005 SW<sub>212</sub>, 3, 1, 0; 2005 SQ<sub>215</sub>, 9, 3, 8; 2005 SV<sub>227</sub>, 6, 2, 4; 2005 ST<sub>228</sub>, 3, 1, 0; 2005 SK<sub>233</sub>, 3, 1, 0; 2005 SZ<sub>234</sub>, 6, 2, 4; 2005 SX<sub>264</sub>, 3, 1, 0; 2005 SL<sub>275</sub>, 3, 1, 0; 2005 SD<sub>282</sub>, 6, 2, 1335; 2005 SL<sub>293</sub>, 6, 2, 1; 2005 TF<sub>39</sub>, 6, 2, 4; 2005 TJ<sub>48</sub>, 6, 2, 4; 2005 TG<sub>62</sub>, 3, 1, 0; 2005 TO<sub>67</sub>, 3, 1, 0; 2005 TS<sub>68</sub>, 9, 3, 4159; 2005 TT<sub>92</sub>, 3, 1, 0; 2005 TJ<sub>98</sub>, 3, 1, 0; 2005 TW<sub>100</sub>, 9, 3, 5; 2005 TX<sub>102</sub>, 3, 1, 0; 2005 TO<sub>110</sub>, 6, 2, 4; 2005 TP<sub>127</sub>, 3, 1, 0; 2005 TQ<sub>149</sub>, 3, 1, 0; 2005 TQ<sub>153</sub>, 3, 1, 0; 2005 TS<sub>162</sub>, 6, 2, 4; 2005 TD<sub>195</sub>, 3, 1, 0; 2005 UA<sub>5</sub>, 6, 2, 2338; 2005 UM<sub>11</sub>, 3, 1, 0; 2005 UF<sub>38</sub>, 3, 1, 0; 2005 UY<sub>69</sub>, 3, 1, 0; 2005 UO<sub>76</sub>, 6, 2, 4; 2005 UV<sub>77</sub>, 3, 1, 0; 2005 US<sub>85</sub>, 3, 1, 0; 2005 UH<sub>94</sub>, 3, 1, 0; 2005 UG<sub>110</sub>, 6, 2, 4; 2005 UX<sub>156</sub>, 6, 2, 4; 2005 UC<sub>158</sub>, 3, 1, 0; 2005 UC<sub>168</sub>, 3, 1, 0; 2005 UR<sub>179</sub>, 3, 1, 0; 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6, 2, 29; 2010 SH<sub>38</sub>, 6, 2, 4; 2010 TW<sub>7</sub>, 12, 3, 950; 2010 TV<sub>12</sub>, 3, 1, 0; 2010 TG<sub>14</sub>, 6, 2, 2; 2010 TV<sub>14</sub>, 3, 1, 0; 2010 TL<sub>18</sub>, 3, 1, 0; 2010 TY<sub>20</sub>, 3, 1, 0; 2010 TH<sub>24</sub>, 3, 1, 0; 2010 TE<sub>25</sub>, 6, 2, 18; 2010 TS<sub>27</sub>, 6, 2, 4; 2010 TA<sub>32</sub>, 3, 1, 0; 2010 TJ<sub>41</sub>, 3, 1, 0; 2010 TJ<sub>69</sub>, 6, 2, 4; 2010 TW<sub>70</sub>, 3, 1, 0; 2010 TF<sub>76</sub>, 3, 1, 0; 2010 TB<sub>77</sub>, 6, 2, 4; 2010 TQ<sub>80</sub>, 3, 1, 0; 2010 TZ<sub>81</sub>, 9, 3, 5; 2010 TV<sub>83</sub>, 21, 6, 3848; 2010 TB<sub>84</sub>, 3, 1, 0; 2010 TM<sub>97</sub>, 3, 1, 0; 2010 TA<sub>99</sub>, 3, 1, 0; 2010 TH<sub>108</sub>, 3, 1, 0; 2010 TV<sub>126</sub>, 3, 1, 0; 2010 TX<sub>131</sub>, 3, 1, 0; 2010 TG<sub>143</sub>, 6, 2, 3; 2010 TA<sub>144</sub>, 6, 2, 4; 2010 TN<sub>152</sub>, 3, 1, 0; 2010 TM<sub>165</sub>, 3, 1, 0; 2010 TA<sub>168</sub>, 6, 2, 4; 2010 TT<sub>168</sub>, 6, 2, 4; 2010 TU<sub>168</sub>, 6, 2, 4; 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2014 MR<sub>32</sub>, 6, 2, 2671; 2014 ME<sub>34</sub>, 9, 3, 4569; 2014 MF<sub>34</sub>, 6, 2, 22; 2014 MM<sub>34</sub>, 15, 5, 53; 2014 MO<sub>34</sub>, 9, 3, 4040; 2014 MW<sub>34</sub>, 12, 4, 2880; 2014 MC<sub>35</sub>, 9, 3, 25; 2014 MH<sub>37</sub>, 6, 2, 4346; 2014 MN<sub>37</sub>, 3, 1, 0; 2014 MT<sub>37</sub>, 9, 3, 1488; 2014 MW<sub>37</sub>, 9, 3, 3404; 2014 MX<sub>37</sub>, 6, 2, 3546; 2014 MY<sub>37</sub>, 3, 1, 0; 2014 MA<sub>38</sub>, 6, 2, 9; 2014 MF<sub>38</sub>, 3, 1, 0; 2014 MN<sub>38</sub>, 9, 3, 530; 2014 MV<sub>38</sub>, 6, 2, 4014; 2014 MS<sub>39</sub>, 3, 1, 0; 2014 MA<sub>41</sub>, 3, 1, 0; 2014 MS<sub>42</sub>, 3, 1, 0; 2014 MH<sub>43</sub>, 3, 1, 0; 2014 MN<sub>43</sub>, 6, 2, 43; 2014 MY<sub>43</sub>, 3, 1, 0; 2014 MF<sub>46</sub>, 3, 1, 0; 2014 MS<sub>48</sub>, 9, 3, 4042; 2014 MT<sub>48</sub>, 3, 1, 0; 2014 MC<sub>49</sub>, 9, 3, 2907; 2014 MO<sub>51</sub>, 3, 1, 0; 2014 MT<sub>51</sub>, 3, 1, 0; 2014 ML<sub>52</sub>, 3, 1, 0; 2014 MN<sub>52</sub>, 3, 1, 0; 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1, 0; 2014 OV<sub>45</sub>, 3, 1, 0; 2014 OK<sub>46</sub>, 6, 2, 556; 2014 OM<sub>46</sub>, 9, 3, 3261; 2014 OP<sub>46</sub>, 6, 2, 1742; 2014 OQ<sub>46</sub>, 9, 3, 2751; 2014 OV<sub>46</sub>, 3, 1, 0; 2014 OL<sub>47</sub>, 3, 1, 0; 2014 OS<sub>47</sub>, 3, 1, 0; 2014 OU<sub>47</sub>, 3, 1, 0; 2014 OD<sub>48</sub>, 3, 1, 0; 2014 OJ<sub>48</sub>, 9, 3, 24; 2014 OR<sub>48</sub>, 3, 1, 0; 2014 OB<sub>51</sub>, 6, 2, 2662; 2014 OT<sub>51</sub>, 6, 2, 448; 2014 OD<sub>52</sub>, 6, 2, 43; 2014 OF<sub>52</sub>, 9, 3, 2346; 2014 OD<sub>53</sub>, 9, 2, 459; 2014 OU<sub>53</sub>, 6, 2, 1548; 2014 OV<sub>53</sub>, 3, 1, 0; 2014 OW<sub>53</sub>, 9, 3, 1418; 2014 OU<sub>55</sub>, 24, 7, 4844; 2014 OM<sub>56</sub>, 3, 1, 0; 2014 OT<sub>56</sub>, 18, 6, 3191; 2014 OL<sub>57</sub>, 9, 3, 482; 2014 OX<sub>57</sub>, 9, 3, 1376; 2014 OF<sub>58</sub>, 5, 2, 4753; 2014 OY<sub>58</sub>, 3, 1, 0; 2014 OO<sub>59</sub>, 3, 1, 0; 2014 OX<sub>59</sub>, 18, 6, 6975; 2014 OE<sub>60</sub>, 3, 1, 0; 2014 OJ<sub>62</sub>, 3, 1, 0; 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2014 OK<sub>89</sub>, 15, 5, 1433; 2014 OL<sub>90</sub>, 3, 1, 0; 2014 OT<sub>91</sub>, 6, 2, 4151; 2014 OU<sub>91</sub>, 6, 2, 4015; 2014 OP<sub>92</sub>, 3, 1, 0; 2014 OR<sub>92</sub>, 3, 1, 0; 2014 OT<sub>92</sub>, 3, 1, 0; 2014 OV<sub>92</sub>, 6, 2, 2756; 2014 OY<sub>92</sub>, 3, 1, 0; 2014 OA<sub>93</sub>, 3, 1, 0; 2014 OD<sub>93</sub>, 3, 1, 0; 2014 OL<sub>94</sub>, 3, 1, 0; 2014 ON<sub>94</sub>, 9, 3, 6; 2014 OR<sub>94</sub>, 3, 1, 0; 2014 OU<sub>94</sub>, 3, 1, 0; 2014 OA<sub>95</sub>, 3, 1, 0; 2014 OD<sub>95</sub>, 3, 1, 0; 2014 OL<sub>95</sub>, 3, 1, 0; 2014 OV<sub>95</sub>, 3, 1, 0; 2014 OX<sub>95</sub>, 6, 2, 4; 2014 OE<sub>96</sub>, 3, 1, 0; 2014 OG<sub>96</sub>, 18, 5, 5446; 2014 OO<sub>96</sub>, 3, 1, 0; 2014 OQ<sub>96</sub>, 3, 1, 0; 2014 OR<sub>96</sub>, 6, 2, 2374; 2014 OS<sub>96</sub>, 6, 2, 3; 2014 OU<sub>96</sub>, 3, 1, 0; 2014 OY<sub>96</sub>, 3, 1, 0; 2014 OB<sub>97</sub>, 3, 1, 0; 2014 OC<sub>97</sub>, 3, 1, 0; 2014 OD<sub>97</sub>, 6, 2, 950; 2014 OJ<sub>97</sub>, 6, 2, 2; 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2014 OG<sub>189</sub>, 6, 2, 4; 2014 OH<sub>189</sub>, 9, 3, 8; 2014 OJ<sub>189</sub>, 3, 1, 0; 2014 OK<sub>189</sub>, 3, 1, 0; 2014 OO<sub>189</sub>, 3, 1, 0; 2014 OQ<sub>189</sub>, 6, 2, 4; 2014 OR<sub>189</sub>, 6, 2, 4; 2014 OT<sub>189</sub>, 3, 1, 0; 2014 OA<sub>190</sub>, 6, 2, 4; 2014 OC<sub>190</sub>, 6, 2, 4; 2014 OE<sub>190</sub>, 3, 1, 0; 2014 OG<sub>190</sub>, 6, 2, 4; 2014 OH<sub>190</sub>, 3, 1, 0; 2014 OL<sub>190</sub>, 3, 1, 0; 2014 OQ<sub>190</sub>, 6, 2, 4; 2014 OW<sub>190</sub>, 3, 1, 0; 2014 OX<sub>190</sub>, 6, 2, 4; 2014 OB<sub>191</sub>, 6, 2, 4; 2014 OD<sub>191</sub>, 6, 2, 4; 2014 OE<sub>191</sub>, 3, 1, 0; 2014 OJ<sub>191</sub>, 3, 1, 0; 2014 OK<sub>191</sub>, 3, 1, 0; 2014 OA<sub>192</sub>, 6, 2, 4; 2014 OC<sub>192</sub>, 3, 1, 0; 2014 OY<sub>191</sub>, 6, 2, 4; 2014 OA<sub>192</sub>, 6, 2, 4; 2014 OB<sub>192</sub>, 15, 5, 4520; 2014 OC<sub>192</sub>, 3, 1, 0; 2014 OD<sub>192</sub>, 3, 1, 0; 2014 OG<sub>192</sub>, 9, 3, 7478; 2014 OL<sub>192</sub>, 6, 2, 4; 2014 OO<sub>192</sub>, 6, 2, 4; 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6, 2, 9; 2014 OE<sub>297</sub>, 6, 2, 9; 2014 OJ<sub>297</sub>, 6, 2, 4; 2014 OM<sub>297</sub>, 3, 1, 0; 2014 ON<sub>297</sub>, 3, 1, 0; 2014 OS<sub>297</sub>, 3, 1, 0; 2014 OA<sub>298</sub>, 6, 2, 5; 2014 OC<sub>298</sub>, 3, 1, 0; 2014 OY<sub>298</sub>, 3, 1, 0; 2014 OD<sub>299</sub>, 3, 1, 0; 2014 OE<sub>299</sub>, 3, 1, 0; 2014 OH<sub>299</sub>, 6, 2, 4; 2014 OJ<sub>299</sub>, 3, 1, 0; 2014 OM<sub>299</sub>, 6, 2, 4; 2014 OP<sub>299</sub>, 3, 1, 0; 2014 OU<sub>299</sub>, 9, 3, 9; 2014 OE<sub>300</sub>, 6, 2, 41; 2014 OW<sub>301</sub>, 3, 1, 0; 2014 OC<sub>304</sub>, 12, 4, 976; 2014 OV<sub>304</sub>, 3, 1, 0; 2014 OA<sub>305</sub>, 6, 2, 4; 2014 OP<sub>305</sub>, 3, 1, 0; 2014 OU<sub>305</sub>, 3, 1, 0; 2014 OT<sub>306</sub>, 3, 1, 0; 2014 OG<sub>307</sub>, 6, 2, 4; 2014 OH<sub>307</sub>, 6, 2, 4; 2014 OK<sub>307</sub>, 3, 1, 0; 2014 OA<sub>308</sub>, 9, 3, 1869; 2014 OY<sub>308</sub>, 12, 4, 6570; 2014 OE<sub>310</sub>, 3, 1, 0; 2014 OM<sub>310</sub>, 6, 2, 16; 2014 OB<sub>311</sub>, 3, 1, 0; 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1, 0; 2014 QW<sub>265</sub> \*, 9, 3, 5; 2014 QE<sub>266</sub>, 3, 1, 0; 2014 QC<sub>267</sub>, 3, 1, 0; 2014 QO<sub>267</sub>, 3, 1, 0; 2014 QT<sub>267</sub>, 3, 1, 0; 2014 QV<sub>267</sub>, 6, 2, 2; 2014 QR<sub>269</sub>, 3, 1, 0; 2014 QQ<sub>269</sub>, 6, 2, 2; 2014 QU<sub>269</sub>, 6, 2, 4; 2014 QV<sub>269</sub>, 3, 1, 0; 2014 QW<sub>269</sub>, 6, 2, 5; 2014 QX<sub>270</sub>, 3, 1, 0; 2014 QY<sub>273</sub>, 3, 1, 0; 2014 QC<sub>275</sub> \*, 12, 4, 9; 2014 QD<sub>275</sub> \*, 9, 3, 8; 2014 QE<sub>275</sub> \*, 3, 1, 0; 2014 QF<sub>275</sub> \*, 3, 1, 0; 2014 QG<sub>275</sub> \*, 3, 1, 0; 2014 QH<sub>275</sub> \*, 3, 1, 0; 2014 QI<sub>275</sub> \*, 3, 1, 0; 2014 QJ<sub>275</sub> \*, 3, 1, 0; 2014 QK<sub>275</sub> \*, 3, 1, 0; 2014 QL<sub>275</sub> \*, 9, 3, 8; 2014 QM<sub>275</sub> \*, 6, 2, 4; 2014 QN<sub>275</sub> \*, 3, 1, 0; 2014 QO<sub>275</sub> \*, 3, 1, 0; 2014 QP<sub>275</sub> \*, 3, 1, 0; 2014 QQ<sub>275</sub> \*, 3, 1, 0; 2014 QR<sub>275</sub> \*, 3, 1, 0; 2014 QS<sub>275</sub> \*, 3, 1, 0; 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(402101), 3, 1, 0; (402102), 3, 1, 0; (402120), 3, 1, 0; (402133), 3, 1, 0; (402141), 3, 1, 0; (402149), 3, 1, 0; (402150), 6, 2, 4; (402152), 3, 1, 0; (402171), 6, 2, 2; (402205), 6, 2, 4; (402210), 3, 1, 0; (402228), 3, 1, 0; (402260), 6, 2, 4; (402266), 3, 1, 0; (402283), 15, 5, 9; (402289), 3, 1, 0; (402290), 6, 2, 4; (402309), 3, 1, 0; (402311), 9, 3, 8; (402321), 3, 1, 0; (402326), 3, 1, 0; (402329), 3, 1, 0; (402334), 6, 2, 4; (402355), 6, 2, 3; (402376), 3, 1, 0; (402397), 6, 2, 4; (402439), 3, 1, 0; (402447), 3, 1, 0; (402475), 3, 1, 0; (402499), 3, 1, 0; (402500), 3, 1, 0; (402507), 3, 1, 0; (402508), 3, 1, 0; (402523), 6, 2, 4; (402538), 9, 3, 5; (402544), 6, 2, 9; (402563), 6, 2, 2; (402619), 2, 1, 0; (402621), 9, 3, 7; (402623), 9, 3, 8; (402625), 6, 2, 4; (402628), 3, 1, 0; (402629), 6, 2, 4; (402636), 9, 3, 8; (402676), 3, 1, 0; (402693), 6, 2, 4; (402702), 3, 1, 0; (402703), 6, 2, 4; (402730), 3, 1, 0; (402796), 3, 1, 0; (402801), 3, 1, 0; (402832), 3, 1, 0; (402839), 3, 1, 0; 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3, 1, 0; (403555), 3, 1, 0; (403568), 3, 1, 0; (403574), 3, 1, 0; (403582), 6, 2, 4; (403589), 3, 1, 0; (403591), 3, 1, 0; (403592), 6, 2, 4; (403595), 3, 1, 0; (403601), 6, 2, 3; (403624), 3, 1, 0; (403649), 9, 3, 8; (403665), 6, 2, 4; (403671), 3, 1, 0; (403676), 6, 2, 4; (403693), 3, 1, 0; (403710), 9, 3, 7; (403711), 3, 1, 0; (403716), 3, 1, 0; (403739), 3, 1, 0; (403753), 3, 1, 0; (403765), 6, 2, 4; (403766), 3, 1, 0; (403773), 6, 2, 4; (403830), 3, 1, 0; (403835), 6, 2, 4; (403883), 9, 3, 4; (403907), 6, 2, 4; (403927), 3, 1, 0; (403933), 9, 3, 6; (403958), 3, 1, 0; (403968), 3, 1, 0; (404012), 3, 1, 0; (404017), 6, 2, 2; (404049), 3, 1, 0; (404061), 3, 1, 0; (404062), 3, 1, 0; (404065), 6, 2, 4; (404067), 6, 2, 4; (404087), 3, 1, 0; (404091), 3, 1, 0; (404093), 3, 1, 0; (404198), 3, 1, 0; (404238), 6, 2, 4; (404290), 2, 1, 0; (404308), 9, 3, 8; (404328), 3, 1, 0; (404334), 6, 2, 2; (404340), 6, 2, 2; (404346), 3, 1, 0; (404362), 3, 1, 0; (404365), 3, 1, 0; (404373), 6, 2, 4; (404414), 6, 2, 2; (404429), 3, 1, 0; (404432), 3, 1, 0; (404439), 3, 1, 0; (404446), 3, 1, 0; (404450), 3, 1, 0; (404489), 6, 2, 4; (404498), 6, 2, 5; (404510), 3, 1, 0; (404546), 6, 2, 4; (404579), 6, 2, 2; (404583), 3, 1, 0; (404592), 3, 1, 0; (404719), 1, 1, 0; (404908), 3, 1, 0; (404943), 6, 2, 8; [64622, 13624, 369\*, 1991/10/06–2014/09/03]

### 695 Kitt Peak

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Observer K. L. Kellogg

Measurer A. N. Heinze

2.1-m *f*/7.6 Cassegrain + CCD

2MASS

{21} 2009 DP<sub>44</sub>, 3, 1, 0; [3, 1, 0\*, 2005/06/05]

{23} 2003 SQ<sub>360</sub>, 3, 1, 0; 2005 UN<sub>429</sub>, 2, 1, 0; 2010 VS<sub>70</sub>, 2, 1, 0; 2014 JO<sub>74</sub>, 2, 1, 0; 2014 KK<sub>79</sub>, 3, 1, 0; 2014 NT<sub>50</sub>, 3, 1, 0; 2014 OC<sub>107</sub>, 2, 1, 0; 2014 OM<sub>170</sub>, 2, 1, 0; 2014 OR<sub>341</sub>, 1, 1, 0; 2014 PU<sub>44</sub>, 3, 1, 0; [23, 10, 0\*, 2004/10/10–2007/02/21]

{1} 2001 XK<sub>72</sub>, 2, 1, 0; 2003 UK<sub>316</sub>, 2, 1, 0; 2004 RX<sub>72</sub>, 2, 1, 0; 2004 RP<sub>293</sub>, 2, 1, 0; 2005 GX<sub>205</sub>, 2, 1, 0; 2005 SD<sub>72</sub>, 2, 1, 0; 2005 TS<sub>108</sub>, 2, 1, 0; 2006 QV<sub>69</sub>, 2, 1, 0; 2006 RL<sub>41</sub>, 2, 1, 0; 2007 PB<sub>42</sub>, 2, 1, 0; 2007 RD<sub>270</sub>, 2, 1, 0; 2007 TY<sub>321</sub>, 2, 1, 0; 2007 VD<sub>176</sub>, 2, 1, 0; 2008 CB<sub>23</sub>, 2, 1, 0; 2009 SQ<sub>6</sub>, 2, 1, 0; 2010 LY<sub>95</sub>, 2, 1, 0; 2010 SD<sub>33</sub>, 2, 1, 0; 2010 TV<sub>28</sub>, 2, 1, 0; 2010 TN<sub>187</sub>, 2, 1, 0; 2011 YF<sub>66</sub>, 2, 1, 0; 2013 CO<sub>79</sub>, 2, 1, 0; 2013 EE<sub>86</sub>, 2, 1, 0; 2013 EL<sub>108</sub>, 2, 1, 0; 2013 HF<sub>35</sub>, 2, 1, 0; 2013 HS<sub>41</sub>, 2, 1, 0; 2013 HH<sub>110</sub>, 2, 1, 0; 2013 HX<sub>145</sub>, 2, 1, 0; 2014 JC<sub>34</sub>, 2, 1, 0; 2014 JO<sub>73</sub>, 2, 1, 0; 2014 KT<sub>27</sub>, 2, 1, 0; 2014 KR<sub>54</sub>, 2, 1, 0; 2014 KA<sub>65</sub>, 2, 1, 0; 2014 KU<sub>87</sub>, 2, 1, 0; 2014 MX<sub>37</sub>, 2, 1, 0; 2014 MS<sub>39</sub>, 4, 1, 0; 2014 OT<sub>26</sub>, 2, 1, 0; 2014 OV<sub>30</sub>, 2, 1, 0; 2014 OE<sub>44</sub>, 2, 1, 0; 2014 OJ<sub>48</sub>, 2, 1, 0; 2014 OA<sub>51</sub>, 2, 1, 0; 2014 OD<sub>67</sub>, 2, 1, 0; 2014 ON<sub>71</sub>, 2, 1, 0; 2014 OF<sub>95</sub>, 4, 2, 2; 2014 ON<sub>120</sub>, 2, 1, 0; 2014 ON<sub>126</sub>, 2, 1, 0; 2014 OS<sub>130</sub>, 2, 1, 0; 2014 OZ<sub>141</sub>, 2, 1, 0; 2014 OH<sub>146</sub>, 2, 1, 0; 2014 OK<sub>174</sub>, 2, 1, 0; 2014 OS<sub>195</sub>, 2, 1, 0; 2014 OS<sub>204</sub>, 2, 1, 0; 2014 OS<sub>213</sub>, 2, 1, 0; 2014 OX<sub>238</sub>, 4, 2, 2926; 2014 OY<sub>289</sub>, 2, 1, 0; 2014 OT<sub>306</sub>, 2, 1, 0; 2014 OY<sub>316</sub>, 2, 1, 0; 2014 PP<sub>15</sub>, 2, 1, 0; 2014 PF<sub>42</sub>, 2, 1, 0; 2014 PT<sub>49</sub>, 2, 1, 0; 2014 PF<sub>58</sub>, 2, 1, 0; [126, 60, 0\*, 2000/02/05–2013/03/14]

{3} 2008 FV<sub>1</sub>, 3, 1, 0; [3, 1, 0\*, 2004/03/26]

{35} 2014 FX<sub>61</sub>, 3, 2, 1; [3, 1, 0\*, 2014/06/15–2014/06/16]

### 696 Whipple Observatory, Mt. Hopkins

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2008 FF<sub>38</sub>, 3, 1, 0; [3, 1, 0\*, 1998/05/04]

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Observers B. W. Koehn, B. A. Skiff, M. E. Van Ness

Measurers B. W. Koehn, W. Kelly, B. A. Skiff, M. E. Van Ness, R. A. Cash

0.59-m LONEOS Schmidt + CCD

USNO-B1.0, USNO-A2.0, GSC-A20

2002 QW<sub>126</sub>, 4, 1, 0; 2002 TM<sub>149</sub>, 4, 1, 0; 2005 AY<sub>66</sub>, 4, 1, 0; 2005 YB<sub>105</sub>, 4, 1, 0; 2006 SC<sub>8</sub>, 4, 1, 0; 2008 FW<sub>95</sub>, 4, 1, 0; 2009 RT<sub>4</sub>, 1, 0; 2010 CF<sub>13</sub>, 4, 1, 0; 2010 JS<sub>142</sub>, 4, 1, 0; 2010 LW<sub>33</sub>, 4, 1, 0; 2010 RO<sub>79</sub>, 4, 1, 0; 2010 SH<sub>38</sub>, 4, 1, 0; 2011 PP<sub>13</sub>, 4, 1, 0; 2011 YS<sub>69</sub>, 4, 1, 0; 2012 AY<sub>2</sub>, 4, 1, 0; 2012 CZ<sub>6</sub>, 4, 1, 0; 2013 CT<sub>35</sub>, 4, 1, 0; 2013 EH<sub>39</sub>, 4, 1, 0; 2013 JM<sub>63</sub>, 4, 1, 0; 2014 BK<sub>37</sub>, 4, 1, 0; 2014 HH<sub>50</sub>, 4, 1, 0; 2014 HM<sub>55</sub>, 4, 1, 0; 2014 JB<sub>6</sub>, 4, 1, 0; 2014 KP<sub>27</sub>, 4, 1, 0; 2014 KR<sub>59</sub>, 4, 1, 0; 2014 KY<sub>81</sub>, 4, 1, 0; 2014 LH<sub>15</sub>, 4, 1, 0; 2014 LY<sub>26</sub>, 4, 1, 0; 2014 LN<sub>27</sub>, 4, 1, 0; 2014 MD<sub>17</sub>, 4, 1, 0; 2014 ML<sub>22</sub>, 4, 1, 0; 2014 MP<sub>25</sub>, 4, 1, 0; 2014 MR<sub>32</sub>, 8, 2, 1771; 2014 MG<sub>36</sub>, 4, 1, 0; 2014 NH<sub>12</sub>, 4, 1, 0; 2014 NF<sub>20</sub>, 4, 1, 0; 2014 NF<sub>38</sub>, 8, 2, 41; 2014 OD<sub>3</sub>, 4, 1, 0; 2014 OX<sub>5</sub>, 8, 2, 9; 2014 OY<sub>14</sub>, 4, 1, 0; 2014 OA<sub>15</sub>, 4, 1, 0; 2014 OK<sub>15</sub>, 4, 1, 0; 2014 OJ<sub>37</sub>, 4, 1, 0; 2014 ON<sub>42</sub>, 4, 1, 0; 2014 OU<sub>65</sub>, 4, 1, 0; 2014 OF<sub>68</sub>, 4, 1, 0; 2014 OX<sub>96</sub>, 8, 2, 20; 2014 OS<sub>111</sub>, 4, 1, 0; 2014 OC<sub>112</sub>, 8, 2, 24; 2014 OU<sub>174</sub>, 4, 1, 0; 2014 OM<sub>175</sub>, 4, 1, 0; 2014 OG<sub>177</sub>, 4, 1, 0; 2014 OD<sub>182</sub>, 4, 1, 0; 2014 OA<sub>185</sub>, 4, 1, 0; 2014 OG<sub>192</sub>, 4, 1, 0; 2014 OG<sub>212</sub>, 4, 1, 0; 2014 OE<sub>344</sub>, 4, 1, 0; 2014 PO<sub>13</sub>, 4, 1, 0; 2014 PN<sub>22</sub>, 4, 1, 0; 2014 PQ<sub>24</sub>, 4, 1, 0; 2014 PG<sub>38</sub>, 4, 1, 0; 2014 PK<sub>42</sub>, 4, 1, 0; 2014 PU<sub>44</sub>, 4, 1, 0; 2014 RH, 3, 1, 0; [275, 64, 0\*, 1998/09/25–2007/10/09]

### 703 Catalina Sky Survey

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

Observers R. A. Kowalski, J. A. Johnson

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

0.68-m Schmidt + CCD

UCAC-4

1988 PF<sub>1</sub>, 4, 1, 0; 1995 SW<sub>20</sub>, 8, 2, 47; 1995 UD<sub>39</sub>, 3, 1, 0; 1996 TV<sub>18</sub>, 4, 1, 0; 1998 QD<sub>2</sub>, 4, 1, 0; 1998 RS<sub>13</sub>, 4, 1, 0; 1998 SE<sub>5</sub>, 4, 1, 0; 1998 SE<sub>150</sub>, 4, 1, 0; 1998 VW<sub>40</sub>, 3, 1, 0; 1999 JD<sub>111</sub>, 8, 2, 10; 1999 TR<sub>207</sub>, 20, 2, 7; 1999 VQ<sub>71</sub>, 4, 1, 0; 1999 VM<sub>80</sub>, 3, 1, 0; 1999 VQ<sub>116</sub>, 4, 1, 0; 1999 XQ<sub>139</sub>, 4, 1, 0; 1999 XH<sub>145</sub>, 3, 1, 0; 2000 AJ<sub>220</sub>, 4, 1, 0; 2000 QX<sub>160</sub>, 4, 1, 0; 2000 QZ<sub>186</sub>, 4, 1, 0; 2000 RZ<sub>36</sub>, 4, 1, 0; 2000 ST<sub>138</sub>, 4, 1, 0; 2000 SZ<sub>143</sub>, 4, 1, 0; 2000 SZ<sub>308</sub>, 3, 1, 0; 2000 TW<sub>7</sub>, 8, 1, 0; 2000 UR<sub>25</sub>, 4, 1, 0; 2000 UF<sub>61</sub>, 4, 1, 0; 2001 NH<sub>13</sub>, 4, 1, 0; 2001 OO<sub>40</sub>, 4, 1, 0; 2001 OQ<sub>44</sub>, 4, 1, 0; 2001 OK<sub>59</sub>, 4, 1, 0; 2001 OQ<sub>95</sub>, 3, 1, 0; 2001 PY<sub>4</sub>, 4, 1, 0; 2001 PC<sub>16</sub>, 4, 1, 0; 2001 PG<sub>23</sub>, 4, 1, 0; 2001 PR<sub>36</sub>, 4, 1, 0; 2001 PL<sub>57</sub>, 4, 1, 0; 2001 PT<sub>60</sub>, 8, 2, 1429; 2001 PS<sub>67</sub>, 3, 1, 0; 2001 QN<sub>48</sub>, 4, 1, 0; 2001 QT<sub>108</sub>, 8, 1, 0; 2001 QX<sub>128</sub>, 4, 1, 0; 2001 QO<sub>130</sub>, 4, 1, 0; 2001 QJ<sub>133</sub>, 4, 1, 0; 2001 QO<sub>158</sub>, 4, 1, 0; 2001 QM<sub>190</sub>, 4, 1, 0; 2001 QU<sub>207</sub>, 3, 1, 0; 2001 QZ<sub>251</sub>, 4, 1, 0; 2001 QC<sub>257</sub>, 3, 1, 0; 2001 QM<sub>268</sub>, 4, 1, 0; 2001 RO<sub>39</sub>, 3, 1, 0; 2001 RQ<sub>43</sub>, 4, 1, 0; 2001 RN<sub>47</sub>, 4, 1, 0; 2001 RP<sub>47</sub>, 4, 1, 0; 2001 RA<sub>52</sub>, 3, 1, 0; 2001 SY<sub>1</sub>, 4, 1, 0; 2001 SK<sub>34</sub>, 4, 1, 0; 2001 SX<sub>111</sub>, 4, 1, 0; 2001 SF<sub>117</sub>, 4, 1, 0; 2001 SB<sub>127</sub>, 4, 1, 0; 2001 SU<sub>130</sub>, 4, 1, 0; 2001 SJ<sub>154</sub>, 4, 1, 0; 2001 SS<sub>172</sub>, 4, 1, 0; 2001 SN<sub>174</sub>, 4, 1, 0; 2001 SG<sub>175</sub>, 3, 1, 0; 2001 SJ<sub>255</sub>, 3, 1, 0; 2001 SN<sub>287</sub>, 4, 1, 0; 2001 SG<sub>290</sub>, 4, 1, 0; 2001 SF<sub>298</sub>, 2, 1, 0; 2001 SA<sub>309</sub>, 3, 1, 0; 2001 SF<sub>321</sub>, 2, 1, 0; 2001 SO<sub>352</sub>, 4, 1, 0; 2001 TO<sub>17</sub>, 4, 1, 0; 2001 TV<sub>95</sub>, 4, 1, 0; 2001 TJ<sub>123</sub>, 4, 1, 0; 2001 TV<sub>153</sub>, 4, 1, 0; 2001 TD<sub>161</sub>, 3, 1, 0; 2001 TS<sub>182</sub>, 4, 1, 0; 2001 TO<sub>193</sub>, 8, 2, 3; 2001 TA<sub>201</sub>, 3, 1, 0; 2001 TA<sub>252</sub>, 3, 1, 0; 2001 TT<sub>261</sub>, 4, 1, 0; 2001 UT<sub>8</sub>, 4, 1, 0; 2001 UE<sub>12</sub>, 7, 1, 0; 2001 UL<sub>12</sub>, 4, 1, 0; 2001 UG<sub>62</sub>, 4, 1, 0; 2001 UU<sub>78</sub>, 3, 1, 0; 2001 UP<sub>95</sub>, 4, 1, 0; 2001 UB<sub>106</sub>, 4, 1, 0; 2001 UB<sub>202</sub>, 3, 1, 0; 2001 UO<sub>204</sub>, 4, 1, 0; 2001 UW<sub>228</sub>, 3, 1, 0; 2001 VT<sub>91</sub>, 4, 1, 0; 2001 XE<sub>91</sub>, 3, 1, 0; 2001 YZ<sub>8</sub>, 3, 1, 0; 2001 YJ<sub>40</sub>, 4, 1, 0; 2002 AN<sub>68</sub>, 4, 1, 0; 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(401963), 3, 1, 0; (401970), 4, 1, 0; (401978), 3, 1, 0; (401999), 3, 1, 0; (402001), 3, 1, 0; (402003), 4, 1, 0; (402005), 4, 1, 0; (402007), 4, 1, 0; (402009), 3, 1, 0; (402011), 4, 1, 0; (402014), 4, 1, 0; (402020), 4, 1, 0; (402024), 4, 1, 0; (402025), 4, 1, 0; (402034), 3, 1, 0; (402036), 3, 1, 0; (402038), 2, 1, 0; (402048), 4, 1, 0; (402049), 12, 1, 0; (402055), 3, 1, 0; (402066), 4, 1, 0; (402071), 4, 1, 0; (402074), 4, 1, 0; (402075), 4, 1, 0; (402085), 3, 1, 0; (402088), 3, 1, 0; (402090), 11, 2, 2; (402130), 4, 1, 0; (402133), 4, 1, 0; (402137), 4, 1, 0; (402140), 4, 1, 0; (402143), 4, 1, 0; (402162), 4, 1, 0; (402171), 7, 1, 0; (402178), 4, 1, 0; (402211), 3, 1, 0; (402220), 4, 1, 0; (402236), 4, 1, 0; (402245), 4, 1, 0; (402274), 3, 1, 0; (402275), 1, 1, 0; (402363), 4, 1, 0; (402426), 3, 1, 0; (402447), 8, 2, 2; (402480), 3, 1, 0; (402483), 4, 1, 0; (402494), 3, 1, 0; (402516), 4, 1, 0; (402536), 4, 1, 0; (402537), 3, 1, 0; (402555), 4, 1, 0; (402557), 4, 1, 0; (402560), 6, 1, 0; 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(403247), 3, 1, 0; (403274), 2, 1, 0; (403283), 3, 1, 0; (403356), 4, 1, 0; (403383), 3, 1, 0; (403435), 3, 1, 0; (403438), 4, 1, 0; (403440), 4, 1, 0; (403442), 3, 1, 0; (403443), 3, 1, 0; (403459), 3, 1, 0; (403466), 4, 1, 0; (403468), 2, 1, 0; (403476), 2, 1, 0; (403477), 3, 1, 0; (403481), 4, 1, 0; (403497), 4, 1, 0; (403502), 4, 1, 0; (403507), 3, 1, 0; (403518), 2, 1, 0; (403542), 4, 1, 0; (403545), 4, 1, 0; (403549), 4, 1, 0; (403564), 3, 1, 0; (403567), 4, 1, 0; (403569), 2, 1, 0; (403570), 4, 1, 0; (403585), 4, 1, 0; (403590), 4, 1, 0; (403604), 11, 2, 2; (403613), 4, 1, 0; (403623), 4, 1, 0; (403667), 4, 1, 0; (403668), 4, 1, 0; (403710), 4, 1, 0; (403715), 4, 1, 0; (403744), 3, 1, 0; (403768), 4, 1, 0; (403769), 2, 1, 0; (403770), 3, 1, 0; (403801), 4, 1, 0; (403813), 4, 1, 0; (403824), 4, 1, 0; (403827), 3, 1, 0; (403847), 6, 1, 0; (403923), 4, 1, 0; (403952), 4, 1, 0; (403958), 4, 1, 0; (403966), 4, 1, 0; (403977), 4, 1, 0; (403981), 3, 1, 0; (404033), 4, 1, 0; (404069), 4, 1, 0; (404074), 3, 1, 0; (404116), 3, 1, 0; (404118), 3, 1, 0; (404216), 3, 1, 0; (404253), 3, 1, 0; (404267), 4, 1, 0; (404290), 4, 1, 0; (404320), 8, 1, 0; (404332), 4, 1, 0; (404350), 4, 1, 0; (404352), 3, 1, 0; (404374), 3, 1, 0; (404402), 4, 1, 0; (404423), 2, 1, 0; (404442), 4, 1, 0; (404446), 4, 1, 0; (404453), 4, 1, 0; (404462), 4, 1, 0; (404480), 4, 1, 0; (404484), 3, 1, 0; (404509), 3, 1, 0; (404533), 4, 1, 0; (404541), 4, 1, 0; (404553), 3, 1, 0; (404570), 4, 1, 0; (404571), 3, 1, 0; (404585), 3, 1, 0; (404587), 4, 1, 0; (404597), 8, 2, 9; (404671), 2, 1, 0; (404796), 4, 1, 0; (404866), 3, 1, 0; [78064, 19186, 41\*, 2004/06/12–2014/09/06]

## 704 Lincoln Laboratory ETS, New Mexico

G. Stokes, MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02420, U.S.A. [stokes@ll.mit.edu]

Observers M. Blythe, F. Shelly, M. Bezpalko, R. Huber, L. Manguso, D. Torres, R. Kracke, M. McCleary, H. Stange, A. Milner

Measurers J. Stuart, R. Sayer, J. Evans, J. Kommers

1.0-m  $f/2.15$  reflector + CCD

USNO-A2.0, USNO-B1.0

2006 AO<sub>34</sub>, 3, 1, 0; [3, 1, 0\*, 2004/10/13]

## 705 Apache Point

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

A. Becker, University of Washington, Box 351580, Seattle, WA 98195-1580, U.S.A. [becker@astro.washington.edu] (4)

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

{3} 2014 OL<sub>109</sub>, 3, 1, 0; [3, 1, 0\*, 2004/09/08]

{4} 2005 LD<sub>2</sub>, 2, 1, 0; [2, 1, 0\*, 2006/11/09]

{7} 2014 DY<sub>66</sub>, 3, 1, 0; 2014 KA<sub>65</sub>, 3, 1, 0; [6, 2, 0\*, 2001/05/24–2005/11/19]

## 711 McDonald Observatory

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

Observer A. J. Riddle

2.1-m reflector + CCD + focal reducer

USNO-A2.0

2014 QW<sub>32</sub>, 3, 1, 0; 2014 QY<sub>32</sub>, 2, 1, 0; 2014 QZ<sub>32</sub>, 4, 2, 1; 2014 QC<sub>33</sub>, 3, 1, 0; 2014 QX<sub>168</sub>, 3, 1, 0; [15, 5, 0\*, 2014/08/21–2014/08/22]

## 718 Tooele

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

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

UCAC-2

2013 AB<sub>54</sub>, 3, 1, 0; 2014 PA<sub>59</sub>, 4, 1, 0; 2014 QV<sub>168</sub>, 5, 1, 0; [12, 3, 0\*, 2014/08/16–2014/08/28]

## 807 Cerro Tololo

M. W. Buie, Southwest Research Institute, 1050 Walnut St., Suite 300, Boulder, CO 80302, U.S.A. [buie@boulder.swri.edu] (1)

D. Wittman, Bell Labs Room 1D-456, 700 Mountain Avenue, Murray Hill, NJ 07974, U.S.A. [dwittman@physics.bell-labs.com] (3)

L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. [lhw@lowell.edu] (15)

O. Vaduvescu, IMCCE, 77 Avenue Denfert Rochereau, F-75014 Paris, France [oviduiuv@astroclubul.org] (21)

M. E. Schwamb, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, CA 91125, U.S.A. [mschwamb@gps.caltech.edu] (24)

R. Holmes, 7168 NCR 2750E, Ashmore, IL 61912, U.S.A. [ari@astro-research.org] (32)

Observers T. Linder, R. Holmes

Measurers T. Linder, R. Holmes, K. Baker

0.41-m  $f/11$  Ritchey-Chrétien + CCD

UCAC-3

{15} 2001 UR<sub>4</sub>, 2, 1, 0; 2002 UT<sub>56</sub>, 2, 1, 0; 2009 SD<sub>210</sub>, 2, 1, 0; 2011 SN<sub>141</sub>, 2, 1, 0; 2014 OE<sub>26</sub>, 2, 1, 0; 2014 OO<sub>220</sub>, 2, 1, 0; [12, 6, 0\*, 2005/08/10–2007/04/22]

{21} 2011 RC<sub>3</sub>, 8, 1, 0; [8, 1, 0\*, 2011/06/04]

{24} 2010 PK<sub>66</sub>, 2, 1, 0; [2, 1, 0\*, 2011/09/03]

{1} 2004 TL<sub>117</sub>, 2, 1, 0; 2004 TZ<sub>351</sub>, 2, 1, 0; 2005 UF<sub>231</sub>, 2, 1, 0; 2005 XN<sub>71</sub>, 2, 1, 0; 2007 CD<sub>32</sub>, 2, 1, 0; 2007 TD<sub>196</sub>, 2, 1, 0; 2007 TV<sub>202</sub>, 2, 1, 0; 2008 SZ<sub>270</sub>, 2, 1, 0; 2009 BD<sub>117</sub>, 2, 1, 0; 2009 BB<sub>184</sub>, 2, 1, 0; 2009 RT<sub>45</sub>, 2, 1, 0; 2009 SM<sub>197</sub>, 2, 1, 0; 2009 SG<sub>199</sub>, 2, 1, 0; 2009 SK<sub>303</sub>, 2, 1, 0; 2009 UL<sub>119</sub>, 2, 1, 0; 2009 WA<sub>234</sub>, 4, 2, 824; 2010 RB<sub>61</sub>, 2, 1, 0; 2010 TM<sub>97</sub>, 2, 1, 0;



2010 UP<sub>73</sub>, 2, 1, 0; 2010 VE<sub>42</sub>, 2, 1, 0; 2010 VP<sub>107</sub>, 2, 1, 0; 2010 VR<sub>166</sub>, 2, 1, 0; 2010 WW<sub>25</sub>, 2, 1, 0; 2011 BQ<sub>14</sub>, 2, 1, 0; 2011 DF<sub>31</sub>, 2, 1, 0; 2012 BO<sub>84</sub>, 2, 1, 0; 2012 CX<sub>37</sub>, 2, 1, 0; 2013 CS<sub>170</sub>, 2, 1, 0; 2013 HP<sub>38</sub>, 2, 1, 0; 2013 HO<sub>88</sub>, 2, 1, 0; 2013 HE<sub>128</sub>, 2, 1, 0; 2014 AK<sub>28</sub>, 2, 1, 0; 2014 EG<sub>36</sub>, 2, 1, 0; 2014 FU<sub>49</sub>, 2, 1, 0; 2014 GY<sub>4</sub>, 2, 1, 0; 2014 JX<sub>21</sub>, 4, 2, 29; 2014 KA<sub>65</sub>, 2, 1, 0; 2014 KM<sub>93</sub>, 2, 1, 0; 2014 LA<sub>28</sub>, 2, 1, 0; 2014 MZ<sub>11</sub>, 2, 1, 0; 2014 MP<sub>63</sub>, 2, 1, 0; 2014 ND<sub>11</sub>, 2, 1, 0; 2014 NV<sub>41</sub>, 2, 1, 0; 2014 NT<sub>50</sub>, 2, 1, 0; 2014 OD<sub>2</sub>, 2, 1, 0; 2014 OK<sub>15</sub>, 2, 1, 0; 2014 OF<sub>16</sub>, 2, 1, 0; 2014 OA<sub>19</sub>, 2, 1, 0; 2014 OC<sub>21</sub>, 2, 1, 0; 2014 OY<sub>32</sub>, 2, 1, 0; 2014 OU<sub>47</sub>, 2, 1, 0; 2014 OC<sub>107</sub>, 4, 1, 0; 2014 OL<sub>109</sub>, 2, 1, 0; 2014 OP<sub>109</sub>, 2, 1, 0; 2014 OO<sub>114</sub>, 2, 1, 0; 2014 OQ<sub>116</sub>, 2, 1, 0; 2014 OZ<sub>122</sub>, 2, 1, 0; 2014 OJ<sub>123</sub>, 2, 1, 0; 2014 OT<sub>133</sub>, 2, 1, 0; 2014 OF<sub>150</sub>, 2, 1, 0; 2014 OF<sub>178</sub>, 2, 1, 0; 2014 OB<sub>192</sub>, 2, 1, 0; 2014 OM<sub>224</sub>, 2, 1, 0; 2014 OH<sub>242</sub>, 2, 1, 0; 2014 OY<sub>324</sub>, 2, 1, 0; 2014 PN<sub>2</sub>, 2, 1, 0; 2014 PB<sub>66</sub>, 4, 2, 418; [142, 67, 0\*, 2000/07/29–2006/04/28]

{3} 2011 YC<sub>60</sub>, 5, 1, 0; [5, 1, 0\*, 2002/02/18]

{32} 2005 AA<sub>28</sub>, 3, 1, 0; 2008 AE<sub>112</sub>, 3, 1, 0; 2008 EE<sub>33</sub>, 2, 1, 0; 2010 NG<sub>3</sub>, 3, 1, 0; 2011 MF, 3, 1, 0; 2011 PT, 3, 1, 0; 2011 RZ, 3, 1, 0; 2011 UW<sub>192</sub>, 3, 1, 0; 2012 XQ<sub>93</sub>, 3, 1, 0; 2013 NK<sub>4</sub>, 4, 1, 0; 2014 ER<sub>49</sub>, 3, 1, 0; 2014 JH<sub>57</sub>, 3, 1, 0; 2014 LA<sub>27</sub>, 3, 1, 0; 2014 MP<sub>5</sub>, 3, 1, 0; 2014 MD<sub>38</sub>, 3, 1, 0; 2014 MP<sub>60</sub>, 3, 1, 0; 2014 NE<sub>3</sub>, 7, 1, 0; 2014 NA<sub>19</sub>, 2, 1, 0; 2014 NC<sub>39</sub>, 3, 1, 0; 2014 ND<sub>44</sub>, 3, 1, 0; 2014 NO<sub>44</sub>, 3, 1, 0; 2014 NE<sub>52</sub>, 3, 1, 0; 2014 NE<sub>63</sub>, 3, 1, 0; 2014 OA<sub>2</sub>, 3, 1, 0; 2014 OG<sub>300</sub>, 3, 1, 0; 2014 OY<sub>337</sub>, 8, 2, 1; 2014 OZ<sub>337</sub>, 4, 1, 0; 2014 OE<sub>338</sub>, 8, 2, 1; 2014 OT<sub>338</sub>, 3, 1, 0; 2014 ON<sub>344</sub>, 3, 1, 0; 2014 OR<sub>391</sub>, 3, 1, 0; 2014 OS<sub>391</sub>, 3, 1, 0; 2014 OX<sub>391</sub>, 3, 1, 0; 2014 OT<sub>392</sub>, 3, 1, 0; 2014 PF<sub>38</sub>, 3, 1, 0; 2014 PH<sub>51</sub>, 3, 1, 0; 2014 PL<sub>51</sub>, 3, 1, 0; 2014 PC<sub>58</sub>, 3, 1, 0; 2014 PU<sub>58</sub>, 3, 1, 0; 2014 PZ<sub>58</sub>, 3, 1, 0; 2014 PA<sub>59</sub>, 4, 1, 0; 2014 PT<sub>59</sub>, 5, 1, 0; 2014 PW<sub>59</sub>, 3, 1, 0; 2014 PX<sub>59</sub>, 4, 1, 0; 2014 PR<sub>62</sub>, 15, 2, 1; 2014 PS<sub>62</sub>, 3, 1, 0; 2014 PU<sub>67</sub>, 3, 1, 0; 2014 PW<sub>67</sub>, 3, 1, 0; 2014 PB<sub>68</sub>, 3, 1, 0; 2014 PF<sub>68</sub>, 3, 1, 0; 2014 QE, 3, 1, 0; 2014 QF, 3, 1, 0; 2014 QY<sub>2</sub>, 3, 1, 0; 2014 QH<sub>32</sub>, 3, 1, 0; 2014 QJ<sub>32</sub>, 2, 1, 0; 2014 QK<sub>32</sub>, 3, 1, 0; 2014 QO<sub>32</sub>, 6, 2, 1; 2014 QP<sub>32</sub>, 6, 2, 1; 2014 QQ<sub>32</sub>, 3, 1, 0; 2014 QS<sub>32</sub>, 3, 1, 0; 2014 QT<sub>32</sub>, 3, 1, 0; 2014 QU<sub>32</sub>, 2, 1, 0; 2014 QV<sub>32</sub>, 3, 1, 0; 2014 QZ<sub>32</sub>, 3, 1, 0; 2014 QA<sub>33</sub>, 11, 2, 2; 2014 QB<sub>33</sub>, 3, 1, 0; 2014 QC<sub>364</sub>, 3, 1, 0; 2014 QL<sub>33</sub>, 2, 1, 0; 2014 QM<sub>33</sub>, 3, 1, 0; 2014 QN<sub>33</sub>, 3, 1, 0; 2014 QO<sub>33</sub>, 4, 1, 0; 2014 QX<sub>168</sub>, 3, 1, 0; 2014 QD<sub>169</sub>, 3, 1, 0; 2014 QF<sub>266</sub>, 3, 1, 0; 2014 QG<sub>266</sub>, 3, 1, 0; 2014 QH<sub>266</sub>, 3, 1, 0; 2014 QK<sub>266</sub>, 3, 1, 0; 2014 QL<sub>266</sub>, 3, 1, 0; 2014 QR<sub>266</sub>, 3, 1, 0; 2014 QX<sub>266</sub>, 6, 2, 1; 2014 QY<sub>266</sub>, 5, 2, 1; 2014 QZ<sub>266</sub>, 2, 1, 0; 2014 QP<sub>295</sub>, 3, 1, 0; 2014 QB<sub>362</sub>, 3, 1, 0; 2014 QS<sub>362</sub>, 3, 1, 0; 2014 QF<sub>363</sub>, 3, 1, 0; 2014 QK<sub>363</sub>, 3, 1, 0; 2014 QC<sub>364</sub>, 3, 1, 0; 2014 QL<sub>364</sub>, 3, 1, 0; 2014 QO<sub>364</sub>, 3, 1, 0; 2014 QE<sub>391</sub>, 2, 1, 0; 2014 QF<sub>391</sub>, 3, 1, 0; 2014 QW<sub>432</sub>, 3, 1, 0; 2014 QU<sub>433</sub>, 3, 1, 0; 2014 RH<sub>11</sub>, 3, 1, 0; 2014 RZ<sub>11</sub>, 3, 1, 0; (5660), 3, 1, 0; [339, 98, 0\*, 2014/07/26–2014/09/04]

### 809 European Southern Observatory, La Silla

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A. Galád, AGO MFF UK, P.O. Box 4, SK-90001 Modra, Slovakia  
[Adrian.Galád@fmph.uniba.sk] (35)

Observer O. Hainaut

3.6-m  $f/11$  New Technology Telescope + CCD  
USNO-A2.0

{20} 2014 OM<sub>334</sub>, 5, 1, 0; [5, 1, 0\*, 2006/04/04]

{1} 2013 CR<sub>62</sub>, 4, 1, 0; [4, 1, 0\*, 2000/02/14]

{4} 2010 TW<sub>76</sub>, 3, 1, 0; 2014 OF<sub>178</sub>, 3, 1, 0; [6, 2, 0\*, 1993/09/23–1993/10/10]

{8} 2014 JC<sub>2</sub>, 1, 1, 0; [1, 1, 0\*, 1993/03/23]

{9} 2010 SH<sub>30</sub>, 3, 1, 0; 2012 EN<sub>2</sub>, 3, 1, 0; 2014 JQ<sub>77</sub>, 4, 1, 0; [10, 3, 0\*, 2003/01/25–2005/02/09]

{35} (403774), 7, 1, 0; [7, 1, 0\*, 2013/11/07]

{32} 2014 PA<sub>45</sub>, 8, 1, 0; [8, 1, 0\*, 2008/03/13]

### 821 Córdoba-Bosque Alegre

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

Observers R. Melia, C. Colazo, P. Guzzo, C. Quiñones, M. E. Ferraro

1.54-m  $f/4.8$  reflector + CCD

UCAC-4

2014 PP<sub>59</sub>, 3, 1, 0; 2014 PQ<sub>59</sub>, 3, 1, 0; 2014 PW<sub>59</sub>, 4, 1, 0; 2014 PY<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; [16, 5, 0\*, 2014/08/15]

### 829 Complejo Astronomico El Leoncito

R. Gil-Hutton, Av. Benavidez 8175 oeste, AR-5413 San Juan, Argentina

[rgilhutton@casleo.gov.ar]

Observers R. Gil-Hutton, J. Licandro

Measurer R. Gil-Hutton

2.15-m  $f/2.8$  reflector + CCD

USNO-A1.0

2009 BO<sub>64</sub>, 2, 1, 0; [2, 1, 0\*, 2002/07/09]

### 844 Los Molinos

G. Tancredi, Departamento Astronomia, Facultad Ciencias, Igua 4225, UY-11400

Montevideo, Uruguay [gonzalo@fisica.edu.uy]

Observers R. Salvo, L. Almenares, S. Roland

0.46-m  $f/2.8$  reflector + CCD, 0.35-m  $f/6.4$  reflector + CCD

UCAC-4

2004 BS<sub>102</sub>, 4, 1, 0; 2014 PT<sub>59</sub>, 6, 1, 0; 2014 PR<sub>62</sub>, 6, 1, 0; 2014 QL<sub>32</sub>, 6, 1, 0; 2014 QA<sub>33</sub>, 5, 1, 0; (36017), 3, 1, 0; (56191), 4, 1, 0; (94106), 4, 1, 0; [38, 8, 0\*, 2014/08/11–2014/08/20]

### 850 Cordell-Lorenz Observatory, Sewanee

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

0.3-m Schmidt-Cassegrain + CCD

UCAC-4, UCAC-3, PPMXL

2006 VL<sub>86</sub>, 2, 1, 0; 2009 SJ<sub>98</sub>, 5, 1, 0; 2012 GZ<sub>9</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 5, 1, 0; 2014 QL<sub>32</sub>, 5, 1, 0; 2014 QR<sub>32</sub>, 5, 1, 0; 2014 QX<sub>32</sub>, 2, 1, 0; 2014 QU<sub>266</sub>, 3, 1, 0; 2014 QM<sub>295</sub>, 5, 1, 0; 2014 QE<sub>362</sub>, 3, 1, 0; 2014 QU<sub>363</sub>, 2, 1, 0; 2014 QM<sub>390</sub>, 2, 1, 0; (791), 3, 1, 0; (17807), 3, 1, 0; (34704), 3, 1, 0; (35974), 3, 1, 0; (64026), 3, 1, 0; (131779), 2, 1, 0; (143180), 2, 1, 0; (162520), 3, 1, 0; (170333), 3, 1, 0; (404402), 3, 1, 0; [70, 22, 0\*, 2014/08/15–2014/09/06]

### 900 Moriyama

Y. Ikari, 13-9 Katube 2 Chome, Moriyama, Shiga-Ken, 524-0041 Japan

[ikari@gold.ocn.ne.jp]

0.26-m  $f/7.0$  reflector + CCD

UCAC-4

2014 QL<sub>32</sub>, 2, 1, 0; 2014 QA<sub>33</sub>, 5, 2, 1; (433), 2, 1, 0; [9, 3, 0\*, 2014/07/27–2014/08/20]

### 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



2006 SS<sub>286</sub>, 3, 1, 0; 2010 NU<sub>14</sub>, 3, 1, 0; 2014 HK<sub>195</sub>, 3, 1, 0; 2014 KU<sub>40</sub>, 3, 1, 0; 2014 NY<sub>1</sub>, 3, 1, 0; [15, 5, 0\*, 1997/08/14–1998/06/26]

### 918 Badlands Observatory, Quinn

R. Dyvig, P.O. Box 37, Quinn, SD 57775, U.S.A. [rondyv@gwtc.net]

Observers V. Reddy, R. Dyvig, B. Loyola

0.66-m  $f/4.8$  reflector + CCD

UCAC-2, USNO-A2.0

2010 LW<sub>33</sub>, 3, 1, 0; [3, 1, 0\*, 2002/11/07]

### 926 Tenagra II Observatory

M. Schwartz, Tenagra Observatories, HC 2 Box 292, Nogales, AZ 85621, U.S.A.

[mbs@tenagraobservatories.com]

Observers P. R. Holvorcem, M. Schwartz, G. Masi, F. Mallia, M. Ory

0.81-m  $f/7$  Ritchey-Chrétien + CCD, 0.41-m  $f/3.75$  astrograph + CCD

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

2001 UO<sub>226</sub>, 3, 1, 0; 2008 YE<sub>172</sub>, 3, 1, 0; 2009 DJ<sub>88</sub>, 3, 1, 0; 2009 DA<sub>98</sub>, 3, 1, 0; 2011 VS<sub>17</sub>, 3, 1, 0; 2014 DE<sub>21</sub>, 3, 1, 0; 2014 EG<sub>50</sub>, 3, 1, 0; 2014 FL<sub>43</sub>, 3, 1, 0; 2014 GP<sub>49</sub>, 3, 1, 0; 2014 HU<sub>161</sub>, 6, 2, 21; 2014 JD<sub>61</sub>, 3, 1, 0; 2014 KD<sub>42</sub>, 3, 1, 0; 2014 KM<sub>93</sub>, 3, 1, 0; 2014 KP<sub>101</sub>, 3, 1, 0; 2014 LT<sub>4</sub>, 3, 1, 0; 2014 MY<sub>2</sub>, 3, 1, 0; 2014 ME<sub>69</sub>, 3, 1, 0; 2014 NP<sub>3</sub>, 3, 1, 0; 2014 OB<sub>6</sub>, 3, 1, 0; 2014 ON<sub>33</sub>, 3, 1, 0; 2014 OC<sub>43</sub>, 3, 1, 0; 2014 OL<sub>47</sub>, 3, 1, 0; 2014 OR<sub>168</sub>, 3, 1, 0; 2014 OR<sub>181</sub>, 3, 1, 0; 2014 OG<sub>199</sub>, 3, 1, 0; 2014 OJ<sub>272</sub>, 3, 1, 0; 2014 OG<sub>344</sub>, 3, 1, 0; 2014 PA<sub>15</sub>, 3, 1, 0; 2014 PH<sub>35</sub>, 3, 1, 0; 2014 PY<sub>50</sub>, 3, 1, 0; [93, 30, 0\*, 2003/06/23–2014/05/26]

### 932 John J. McCarthy Obs., New Milford

M. Robson, P.O. Box 1144, New Milford, CT 06776, U.S.A.

[mail@mccarthyobservatory.org]

Observers M. Polansky, C. KleinStern, E. Tritsch

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

UCAC-3

2014 PA<sub>59</sub>, 6, 2, 1; [6, 1, 0\*, 2014/08/09–2014/08/10]

### 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

[ovidiv@astroclubul.org] (23)

Observers O. Vaduvescu, V. Tudor, S. Macfarlane, N. Gentile, O. Zamora, J. Font,

A. Bereciartua, F. Riddick

Measurers F. Char, V. Tudor, O. Vaduvescu, A. M. Stoian, D. Zavoianu,

R. Cornea, T. Mocnik, L. Hudin, F. Perez Toledo

2.5-m  $f/3.3$  reflector + CCD, 4.2-m  $f/11$  reflector + CCD

PPMXL

{23} 2000 WV<sub>38</sub>, 6, 1, 0; 2002 CV<sub>46</sub>, 3, 1, 0; 2002 QG<sub>53</sub>, 8, 1, 0; 2002 ST<sub>48</sub>, 8, 1, 0; 2003 TU<sub>55</sub>, 6, 1, 0; 2005 JU<sub>55</sub>, 5, 1, 0; 2005 SW<sub>4</sub>, 6, 1, 0; 2005 SD<sub>182</sub>, 5, 1, 0; 2005 ST<sub>282</sub>, 5, 1, 0; 2006 SA<sub>219</sub>, 8, 1, 0; 2006 SZ<sub>283</sub>, 5, 1, 0; 2006 SG<sub>365</sub>, 6, 1, 0; 2006 WP<sub>149</sub>, 4, 1, 0; 2006 YA<sub>53</sub>, 6, 1, 0; 2007 RD<sub>1</sub>, 4, 1, 0; 2007 WF<sub>55</sub>, 2, 1, 0; 2008 GC<sub>121</sub>, 8, 1, 0; 2008 UJ<sub>276</sub>, 6, 1, 0; 2009 HW<sub>44</sub>, 4, 1, 0; 2009 RO<sub>15</sub>, 6, 1, 0; 2009 SU<sub>240</sub>, 2, 1, 0; 2009 UQ<sub>101</sub>, 6, 1, 0; 2010 DM<sub>21</sub>, 3, 1, 0; 2010 PN<sub>63</sub>, 4, 1, 0; 2010 RE<sub>71</sub>, 6, 1, 0; 2010 UR<sub>65</sub>, 6, 1, 0; 2010 WB<sub>37</sub>, 4, 1, 0; 2011 AK<sub>57</sub>, 5, 1, 0; 2011 EQ<sub>19</sub>, 6, 1, 0; 2011 FA<sub>155</sub>, 6, 1, 0; 2011 WE<sub>44</sub>, 7, 1, 0; 2011 YK<sub>26</sub>, 6, 1, 0; 2012 FV<sub>82</sub>, 6, 1, 0; 2012 JL<sub>1</sub>, 6, 1, 0; 2012 SN<sub>30</sub>, 5, 1, 0; 2013 FT<sub>3</sub>, 8, 1, 0; 2013 FX<sub>18</sub>, 6, 1, 0; 2013 GM<sub>45</sub>, 7, 1, 0; 2013 HM<sub>101</sub>, 3, 1, 0; 2013 HT<sub>119</sub>, 6, 1, 0; 2013 HR<sub>126</sub>, 6, 1, 0; 2013 LV<sub>28</sub>, 5, 1, 0; 2013 PV<sub>7</sub>, 5, 1, 0; 2013 PR<sub>69</sub>, 4, 1, 0; 2013 QN<sub>10</sub>, 10, 1, 0; 2013 QK<sub>48</sub>, 3, 1, 0; 2013 QJ<sub>56</sub>, 6, 1, 0; 2013 TT<sub>6</sub>, 6, 1, 0; 2013 TA<sub>40</sub>, 8, 1, 0; 2013 UP<sub>8</sub>, 5, 1, 0; 2014 KK<sub>29</sub>, 8, 1, 0; 2014 OU<sub>47</sub>, 5, 1, 0; 2014 OK<sub>133</sub>, 8, 1, 0; 2014 OQ<sub>134</sub>, 8, 1, 0; 2014 OF<sub>135</sub>, 8, 1, 0; 2014 OG<sub>147</sub>, 4, 1, 0; 2014 OY<sub>196</sub>, 6, 1, 0; 2014 OH<sub>198</sub>, 8, 2, 1; 2014 OB<sub>205</sub>, 6, 1, 0; 2014 OK<sub>215</sub>, 8, 1, 0; 2014 OP<sub>336</sub>, 6, 1, 0; 2014 OH<sub>345</sub>, 8, 1, 0; 2014 OS<sub>350</sub>, 6, 1, 0; 2014 PY<sub>2</sub>, 8, 1, 0; 2014 PP<sub>19</sub>, 8, 1, 0; 2014 PV<sub>19</sub>, 8, 1, 0; 2014 PM<sub>36</sub>, 8, 1, 0; 2014 PX<sub>36</sub>, 8, 1, 0; 2014 PO<sub>46</sub>, 8, 1, 0; 2014 QH<sub>51</sub>, 6, 1, 0; 2014 QY<sub>64</sub>, 6, 1, 0; 2014 QX<sub>275</sub>, 8, 1, 0; 2014 QZ<sub>275</sub>, 8, 1, 0; 2014 QZ<sub>315</sub>, 8, 1, 0; (5992), 6, 1, 0; (8344), 6, 1, 0; (10329), 6, 1, 0; (11702), 7, 1, 0; (11744), 8, 1, 0; (12208), 6, 1, 0; (15251), 6, 1, 0; (21209), 5, 1, 0; (23928), 6, 1, 0; (38420), 6, 1, 0;

(39528), 8, 1, 0; (39872), 4, 1, 0; (45862), 6, 1, 0; (50431), 8, 1, 0; (54229), 6, 1, 0; (54895), 8, 1, 0; (55603), 8, 1, 0; (56012), 6, 1, 0; (57101), 6, 1, 0; (65594), 8, 1, 0; (66045), 10, 1, 0; (67457), 8, 1, 0; (69382), 6, 1, 0; (74878), 7, 1, 0; (77791), 6, 1, 0; (80589), 8, 1, 0; (88886), 8, 1, 0; (91116), 6, 1, 0; (95981), 6, 1, 0; (96528), 8, 1, 0; (96673), 8, 1, 0; (97615), 6, 1, 0; (97764), 6, 1, 0; (99466), 8, 1, 0; (100418), 6, 1, 0; (102497), 6, 1, 0; (109847), 7, 1, 0; (118099), 6, 1, 0; (120740), 6, 1, 0; (131826), 8, 1, 0; (136981), 6, 1, 0; (139184), 8, 1, 0; (145068), 6, 1, 0; (145688), 6, 1, 0; (147487), 5, 1, 0; (149935), 6, 1, 0; (151013), 8, 1, 0; (157685), 6, 1, 0; (159542), 6, 1, 0; (164265), 6, 1, 0; (174090), 3, 1, 0; (177316), 6, 1, 0; (179047), 8, 1, 0; (182101), 6, 1, 0; (182769), 6, 1, 0; (195947), 6, 1, 0; (198742), 6, 1, 0; (205072), 6, 1, 0; (213230), 6, 1, 0; (215976), 8, 1, 0; (217933), 6, 1, 0; (221227), 8, 1, 0; (226903), 7, 1, 0; (227616), 6, 1, 0; (235515), 5, 1, 0; (238952), 8, 1, 0; (249253), 6, 1, 0; (250579), 6, 1, 0; (256673), 6, 1, 0; (265012), 3, 1, 0; (272503), 6, 1, 0; (273006), 8, 1, 0; (275389), 4, 1, 0; (282635), 6, 1, 0; (285151), 6, 1, 0; (286653), 8, 1, 0; (288098), 6, 1, 0; (292358), 6, 1, 0; (293355), 6, 1, 0; (296591), 6, 1, 0; (314132), 6, 1, 0; (318678), 11, 1, 0; (322245), 6, 1, 0; (324435), 5, 1, 0; (325983), 11, 1, 0; (326512), 6, 1, 0; (327970), 6, 1, 0; (364203), 6, 1, 0; (364822), 8, 1, 0; (365077), 8, 1, 0; (366970), 8, 1, 0; (368666), 5, 1, 0; (370952), 8, 1, 0; (371644), 6, 1, 0; (372136), 6, 1, 0; (372897), 6, 1, 0; (373292), 2, 1, 0; (373302), 3, 1, 0; (375411), 6, 1, 0; (375958), 8, 1, 0; (375998), 6, 1, 0; [1100, 175, 0\*, 2009/02/12–2014/09/02]

{3} 2012 VH<sub>35</sub>, 3, 1, 0; [3, 1, 0\*, 2002/11/05]

### 958 Observatoire de Dax

P. Dupouy, Observatoire de Dax, F-40100 Dax, France [obsdax@wanadoo.fr]

Observers P. Dupouy, J. B. de Vanssay

0.43-m  $f/2.7$  reflector + CCD

UCAC-4

2001 SX<sub>111</sub>, 3, 1, 0; 2006 XX<sub>31</sub>, 3, 1, 0; 2007 TA<sub>25</sub>, 2, 1, 0; 2010 SR<sub>15</sub>, 3, 1, 0; 2011 RZ<sub>4</sub>, 1, 0; 2013 CJ<sub>82</sub>, 3, 1, 0; 2014 GP<sub>49</sub>, 3, 1, 0; 2014 MS<sub>2</sub>, 3, 1, 0; 2014 OP<sub>1</sub>, 3, 1, 0; 2014 OJ<sub>112</sub>, 3, 1, 0; 2014 OH<sub>338</sub>, 3, 1, 0; 2014 PQ<sub>58</sub>, 3, 1, 0; 2014 PR<sub>58</sub>, 3, 1, 0; 2014 PA<sub>59</sub>, 7, 2, 1; 2014 PS<sub>59</sub>, 4, 1, 0; 2014 PT<sub>59</sub>, 4, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QL<sub>32</sub>, 6, 2, 1; 2014 QR<sub>32</sub>, 3, 1, 0; 2014 QX<sub>32</sub>, 2, 1, 0; 2014 QD<sub>33</sub>, 3, 1, 0; 2014 QE<sub>33</sub>, 4, 1, 0; 2014 QG<sub>33</sub>, 3, 1, 0; 2014 QH<sub>33</sub>, 3, 1, 0; 2014 QL<sub>33</sub>, 3, 1, 0; 2014 QO<sub>33</sub>, 4, 1, 0; 2014 QQ<sub>33</sub>, 3, 1, 0; 2014 QR<sub>168</sub>, 3, 1, 0; 2014 QS<sub>168</sub>, 3, 1, 0; 2014 QU<sub>169</sub>, 3, 1, 0; 2014 QZ<sub>265</sub>, 7, 2, 2; 2014 QB<sub>266</sub>, 3, 1, 0; 2014 QW<sub>295</sub>, 3, 1, 0; 2014 QD<sub>364</sub>, 4, 1, 0; 2014 QY<sub>364</sub>, 3, 1, 0; 2014 QC<sub>365</sub>, 3, 1, 0; 2014 QL<sub>365</sub>, 4, 1, 0; 2014 QG<sub>390</sub>, 3, 1, 0; 2014 QJ<sub>390</sub>, 3, 1, 0; 2014 QM<sub>390</sub>, 3, 1, 0; 2014 QO<sub>390</sub>, 5, 2, 1; 2014 QP<sub>390</sub>, 3, 1, 0; 2014 QC<sub>391</sub>, 3, 1, 0; 2014 QD<sub>391</sub>, 3, 1, 0; 2014 QZ<sub>432</sub>, 3, 1, 0; 2014 QA<sub>433</sub>, 3, 1, 0; 2014 QB<sub>433</sub>, 3, 1, 0; 2014 QD<sub>433</sub>, 3, 1, 0; 2014 RB<sub>3</sub>, 3, 1, 0; 2014 RE<sub>3</sub>, 3, 1, 0; 2014 RJ<sub>4</sub>, 1, 0; 2014 RK<sub>3</sub>, 1, 0; 2014 RC<sub>11</sub>, 3, 1, 0; 2014 RD<sub>11</sub>, 3, 1, 0; 2014 RE<sub>11</sub>, 6, 1, 0; 2014 RF<sub>11</sub>, 3, 1, 0; 2014 RJ<sub>11</sub>, 3, 1, 0; 2014 RO<sub>11</sub>, 3, 1, 0; 2014 RP<sub>11</sub>, 3, 1, 0; 2014 RQ<sub>11</sub>, 4, 1, 0; 2014 RY<sub>11</sub>, 3, 1, 0; 2014 RZ<sub>11</sub>, 3, 1, 0; [209, 62, 0\*, 2014/08/05–2014/09/05]

### A13 Observatoire Naef, Marly

P. Kocher, ufem Berg 23, CH-1734 Tentlingen, Switzerland [kocher@bluewin.ch]

0.5-m  $f/3.3$  Hypergraph + CCD

UCAC-4

2009 RB<sub>16</sub>, 2, 1, 0; 2009 SL<sub>20</sub>, 2, 1, 0; 2013 AO<sub>11</sub>, 5, 2, 5; 2014 LH<sub>27</sub>, 2, 1, 0; 2014 NK<sub>37</sub>, 2, 1, 0; 2014 PC<sub>2</sub>, 3, 1, 0; 2014 PL<sub>44</sub>, 14, 6, 16; 2014 PG<sub>51</sub>, 2, 1, 0; 2014 PO<sub>59</sub>, 2, 1, 0; 2014 QS<sub>\*</sub>, 14, 6, 16; 2014 QJ<sub>38</sub> \*, 11, 5, 15; (14299), 2, 1, 0; (39473), 5, 2, 5; (72513), 2, 1, 0; (72573), 2, 1, 0; (100271), 2, 1, 0; (134449), 2, 1, 0; (152255), 2, 1, 0; (158763), 6, 3, 8; (162625), 2, 1, 0; (169911), 2, 1, 0; (173563), 7, 3, 5; (179934), 2, 1, 0; (244900), 4, 2, 2; (251219), 3, 1, 0; (252289), 4, 2, 2; (276049), 4, 1, 0; (320197), 1, 1, 0; (324201), 5, 2, 1; (403476), 2, 1, 0; (403731), 2, 1, 0; [120, 31, 2\*, 2012/01/17–2014/09/01]

### 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

2014 JD<sub>61</sub>, 3, 1, 0; 2014 OX<sub>71</sub>, 3, 1, 0; 2014 OO<sub>113</sub>, 3, 1, 0; 2014 PC<sub>9</sub>, 3, 1, 0; [12, 4, 0\*, 2011/02/06–2012/01/16]

### A32 Panker

H. Denzau, Im Brook 8, D-24321 Panker, Germany [denzau@t-online.de]



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

USNO-B1.0

(1917), 3, 1, 0; (46205), 3, 1, 0; (60558), 3, 1, 0; (208312), 3, 1, 0; [12, 4, 0\*, 2014/07/21–2014/08/02]

#### 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

2014 EZ<sub>48</sub>, 4, 1, 0; 2014 PA<sub>59</sub>, 8, 2, 5; 2014 PT<sub>59</sub>, 4, 1, 0; 2014 PR<sub>62</sub>, 4, 1, 0; 2014 QL<sub>32</sub>, 4, 1, 0; [24, 5, 0\*, 2014/08/22–2014/08/29]

#### A50 Andrushivka Astronomical Observatory

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

[yurets@gluk.org]

Observers D. Kyrylenko, Y. Ivashchenko, O. Gerashchenko, P. Ostafijchuk

Measurer A. Nikolajchuk

0.6-m reflector + CCD

USNO-A2.0

2014 OH<sub>186</sub>, 3, 1, 0; [3, 1, 0\*, 2013/05/11]

#### 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

2013 WT<sub>67</sub>, 4, 1, 0; 2014 EZ<sub>48</sub>, 11, 3, 5; 2014 PL<sub>51</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 4, 1, 0; [22, 4, 0\*, 2014/08/23–2014/08/29]

#### A56 Parma

A. Carbognani, via Gioberti 8, Parma, Italy [albino.carbognani@libero.it]

0.4-m  $f/4.0$  reflector + CCD

UCAC-3

(285944), 8, 1, 0; [8, 1, 0\*, 2014/08/27]

#### A77 Observatoire Chante-Perdrix, Dauban

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

Observers A. Klotz, F. Kugel, J. Nicolas, C. Rinner

0.20-m  $f/4$  Schmidt-Cassegrain + CCD, 0.41-m  $f/3.3$  reflector + CCD

NOMAD, UCAC-4, USNO-SA2.0, UCAC-3

(2060), 6, 2, 1; (3754), 3, 1, 0; (39124), 3, 1, 0; (50313), 3, 1, 0; (52188), 3, 1, 0; (60558), 2, 1, 0; (83799), 3, 1, 0; (117831), 3, 1, 0; [26, 8, 0\*, 2014/08/15–2014/09/01]

#### A84 TUBITAK National Observatory

H. Kirbiyik, TUBITAK National Observatory, TR-07058 Antalya, Turkey

[halil.kirbiyik@tubitak.gov.tr]

Observers Z. Eker, M. Kaplan, O. Erece, G. Aslan

Measurers M. Birlan, O. Erece

1.50-m  $f/7.7$  reflector + CCD

NOMAD

(118208), 21, 2, 1; (120538), 12, 2, 1; [33, 2, 0\*, 2014/08/31–2014/09/01]

#### B00 Savigny-le-Temple

P. Sogorb, 5 rue Favière, 77176 Savigny-le-Temple, France [p-sogorb@club-internet.fr]

0.4-m  $f/3.5$  Newtonian reflector + CCD

UCAC-4

2011 UL<sub>163</sub>, 3, 1, 0; (7807), 3, 1, 0; (9733), 3, 1, 0; (94325), 3, 1, 0; (105413), 3, 1, 0; (120192), 3, 1, 0; (157062), 3, 1, 0; [21, 7, 0\*, 2014/08/29]

#### B01 Taunus Observatory, Frankfurt

E. Schwab, Westendstrasse 8, D-63329 Egelsbach, Germany [e.schwab@gsi.de]

Observer R. Kling, E. Schwab

Measurer E. Schwab

0.6-m  $f/9.5$  Cassegrain + CCD

UCAC-2

2014 OB<sub>147</sub>, 3, 1, 0; [3, 1, 0\*, 2011/10/21]

#### B04 OAVdA, Saint-Barthelemy

A. Carbognani, Osservatorio Astronomico della Regione Autonoma Valle

d'Aosta, 39 Saint-Barthelemy Lignan, I-11020 Nus (Aosta), Italy

[albino@fis.unipr.it]

0.81-m  $f/7.9$  reflector + CCD

UCAC-4

2014 OP<sub>1</sub>, 4, 1, 0; 2014 RC, 8, 1, 0; (54686), 4, 1, 0; (285944), 7, 1, 0; [23, 4, 0\*, 2014/08/05–2014/09/06]

#### B18 Terskol

S. Barabanov, Institute of Astronomy of RAS, 48 Pyatnitskaya, Moscow 109017,

Russia [inasan@burbonz.nalnet.ru]

Observers N. Parakhin, M. Andreev, A. Sergeev, V. Godunova

0.6-m  $f/12.9$  Cassegrain + CCD

UCAC-4

2014 RC, 8, 1, 0; [8, 1, 0\*, 2014/09/05–2014/09/06]

#### B38 Santa Mama

S. Trevisan, Castagnoli 127/I, Subbiano, Italy [stelucy3@interfree.it]

0.30-m  $f/10$  reflector + CCD +  $f/6.3$  focal reducer

UCAC-4

(143624), 5, 1, 0; (224926), 5, 1, 0; (277616), 5, 1, 0; [15, 3, 0\*, 2014/08/17]

#### B50 Corner Observatory, Durmersheim

J. Linder, Im Eck 1/19, D-76448 Durmersheim, Germany

[juergen@cometmillenium.de]

0.20-m  $f/4.7$  Schmidt-Cassegrain + CCD

UCAC-4

(88), 3, 1, 0; (1463), 3, 1, 0; (51697), 2, 1, 0; [8, 3, 0\*, 2014/08/01–2014/09/06]

#### B51 Vallauris

J. Nicolas, 364 chemin de Notre Dame, F-06220 Vallauris, France

[nicolas.joel@wanadoo.fr]

0.28-m  $f/6.5$  reflector + CCD

UCAC-4

(2060), 2, 1, 0; (60558), 3, 1, 0; [5, 2, 0\*, 2014/09/01]

#### B54 Ager

J. Bel, C/Afores s/n, E-25691 Àger, Spain [aliextra@tele2.es]

0.30-m  $f/10.28$  Schmidt-Cassegrain + CCD

CMC, USNO-A2.0

(7874), 3, 1, 0; [3, 1, 0\*, 2014/08/28]



**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

2008 OC<sub>6</sub>, 3, 1, 0; 2011 SG<sub>5</sub>, 3, 1, 0; 2013 WT<sub>67</sub>, 3, 1, 0; [9, 3, 0\*, 2014/08/28–2014/09/03]

**B74 Santa Maria de Montmagastrell**

J. M. Bosch, Carrer del Nord, 29, 3r, 2a, E-25300 Tàrrrega, Spain  
[jbosch1@xtec.cat]

Observers J. M. Bosch, R. Olivera  
0.40-m  $f/10$  Schmidt-Cassegrain + CCD  
UCAC-4

2003 UW<sub>17</sub>, 3, 1, 0; 2005 YA<sub>15</sub>, 3, 1, 0; 2010 OV<sub>123</sub>, 9, 3, 2; 2010 RN<sub>26</sub>, 3, 1, 0; 2014 OF<sub>97</sub>, 3, 1, 0; 2014 QF<sub>383</sub>, 9, 3, 2; 2014 QG<sub>383</sub>, 6, 2, 1; 2014 QU<sub>418</sub>, 9, 3, 2; 2014 QT<sub>432</sub> \*, 6, 2, 1; 2014 QU<sub>432</sub> \*, 9, 3, 2; 2014 RC<sub>7</sub> \*, 9, 3, 2; 2014 RH<sub>7</sub> \*, 9, 3, 2; 2014 RK<sub>11</sub>, 3, 1, 0; (68104), 3, 1, 0; (110312), 3, 1, 0; (225635), 3, 1, 0; (255779), 3, 1, 0; (276110), 3, 1, 0; [96, 18, 4\*, 2014/08/31–2014/09/04]

**B92 Chinon**

M. Audejean, Place du Général de Gaulle, F-37500 Chinon, France  
[maurice.audejean@wanadoo.fr]

0.32-m  $f/6$  Newtonian reflector + CCD  
UCAC-4

(297), 25, 2, 3; (134340), 10, 1, 0; [35, 2, 0\*, 2014/08/20–2014/08/23]

**C10 Maisoncelles**

J.-F. Soulier, Maisoncelles, Seine et Marne, France  
[jean-francois.soulier2@wanadoo.fr]

0.30-m  $f/3.8$  Newtonian reflector + CCD  
UCAC-4

(2060), 3, 1, 0; (3200), 3, 1, 0; (65352), 4, 1, 0; (131599), 1, 1, 0; (323785), 2, 1, 0; [13, 5, 0\*, 2014/08/20–2014/09/03]

**C23 Olmen**

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

0.20-m  $f/9$  refractor + CCD  
UCAC-4

2014 LJ<sub>21</sub>, 4, 1, 0; 2014 OX<sub>299</sub>, 16, 2, 2; 2014 PL<sub>51</sub>, 12, 3, 5; (213), 3, 1, 0; (905), 3, 1, 0; (3788), 3, 1, 0; (20207), 2, 1, 0; (33617), 3, 1, 0; (65352), 3, 1, 0; (163132), 21, 5, 14; (276049), 36, 8, 13; (333578), 31, 7, 13; [137, 12, 0\*, 2014/06/05–2014/09/05]

**C27 Pallerols**

A. Jorba, Psje Garcini 3, E-08007 Barcelona, Spain [angel.jorba@gmail.com]

0.25-m  $f/4.8$  reflector + CCD  
UCAC-4

2008 DS<sub>83</sub>, 7, 3, 7; 2010 TB<sub>166</sub>, 2, 1, 0; 2010 UF<sub>30</sub>, 5, 2, 1; 2010 UT<sub>56</sub>, 3, 1, 0; 2014 QR \*, 4, 2, 1; (4909), 3, 1, 0; (9953), 4, 1, 0; (14721), 4, 1, 0; (15609), 2, 1, 0; (16020), 4, 1, 0; (20208), 3, 1, 0; (27083), 2, 1, 0; (35390), 4, 1, 0; (41423), 4, 1, 0; (44544), 8, 2, 1; (59306), 4, 1, 0; (60812), 2, 1, 0; (84817), 4, 1, 0; (313347), 2, 1, 0; [71, 19, 1\*, 2014/06/27–2014/08/18]

**C32 Ka-Dar Observatory, TAU Station, Nizhny Arkhyz**

S. Korotkiy, Tsimlyanskaya street, 30-137, 109559 Moscow, Russia [tau@ka-dar.ru]

Observer V. Gerke  
Measurers S. Korotkiy, D. Chestnov  
0.40-m  $f/8$  Ritchey-Chrétien + CCD  
UCAC-2

2014 OL<sub>45</sub>, 3, 1, 0; 2014 OO<sub>59</sub>, 7, 1, 0; 2014 OH<sub>207</sub>, 3, 1, 0; [13, 3, 0\*, 2011/09/21–2013/05/08]

**C41 MASTER-II Observatory, Kislovodsk**

V. Lipunov, 119992 Universitetskiy pr. 13, Sternberg Astronomical Institute, Moscow, Russia [lipunov2007@gmail.com]

Observers E. Gorbovskey, V. Lipunov, N. Tiurina, P. Balanutsa, V. Kornilov, N. Shatskiy, V. Chazov, A. Kuznetsov, D. Zimmukhov, V. Yurkov, D. Varda, E. Sinyakov, V. Krushinsky, I. Zalozhniy, A. Popov, K. Ivanov  
Measurers N. Budnev, E. Konstantinov, O. Chuvalaev, V. Poleshchuk, O. Gress, A. Tlatov, D. Dormidontov, V. Senik, V. Shumkov, S. Shurpakov, D. Denisenko

0.4-m  $f/2.5$  reflector + CCD  
USNO-B1.0

1999 TR<sub>207</sub>, 3, 1, 0; (6), 3, 1, 0; (14), 3, 1, 0; (33), 6, 1, 0; (41), 3, 1, 0; (52), 8, 2, 1; (54), 5, 1, 0; (62), 2, 1, 0; (77), 17, 4, 6; (82), 14, 4, 11; (103), 6, 1, 0; (105), 9, 2, 27; (115), 4, 1, 0; (124), 3, 1, 0; (132), 6, 1, 0; (245), 4, 1, 0; (257), 3, 1, 0; (260), 4, 1, 0; (265), 2, 1, 0; (268), 4, 1, 0; (297), 3, 1, 0; (314), 18, 4, 10; (333), 6, 1, 0; (383), 5, 1, 0; (401), 2, 1, 0; (417), 2, 1, 0; (480), 3, 1, 0; (548), 6, 2, 3; (563), 5, 1, 0; (592), 6, 1, 0; (618), 4, 1, 0; (630), 2, 1, 0; (636), 3, 1, 0; (672), 4, 1, 0; (677), 3, 1, 0; (739), 3, 1, 0; (799), 3, 1, 0; (813), 2, 1, 0; (859), 4, 1, 0; (861), 13, 4, 9; (871), 3, 1, 0; (917), 3, 1, 0; (952), 6, 1, 0; (1042), 4, 1, 0; (1043), 2, 1, 0; (1081), 6, 1, 0; (1097), 5, 1, 0; (1115), 2, 1, 0; (1155), 4, 1, 0; (1223), 2, 1, 0; (1241), 11, 2, 11; (1249), 2, 1, 0; (1315), 3, 1, 0; (1341), 3, 1, 0; (1348), 2, 1, 0; (1388), 5, 1, 0; (1458), 6, 1, 0; (1467), 6, 1, 0; (1506), 5, 1, 0; (1515), 3, 1, 0; (1540), 2, 1, 0; (1558), 5, 2, 8; (1562), 4, 1, 0; (1589), 4, 1, 0; (1594), 4, 1, 0; (1689), 5, 1, 0; (1784), 2, 1, 0; (1808), 4, 1, 0; (1842), 4, 1, 0; (1918), 2, 1, 0; (1926), 4, 1, 0; (1984), 2, 1, 0; (2051), 3, 1, 0; (2151), 3, 1, 0; (2206), 4, 1, 0; (2287), 4, 1, 0; (2430), 2, 1, 0; (2571), 4, 1, 0; (2678), 3, 1, 0; (2933), 2, 1, 0; (3003), 2, 1, 0; (3066), 3, 1, 0; (3117), 3, 1, 0; (3139), 6, 2, 10; (3197), 6, 1, 0; (3325), 3, 1, 0; (3335), 6, 1, 0; (3396), 3, 1, 0; (3452), 2, 1, 0; (3457), 6, 1, 0; (3519), 2, 1, 0; (3673), 4, 1, 0; (3674), 2, 1, 0; (3759), 3, 1, 0; (3898), 8, 2, 1; (3949), 2, 1, 0; (3983), 2, 1, 0; (3991), 3, 1, 0; (4088), 2, 1, 0; (4150), 4, 1, 0; (4243), 2, 1, 0; (4285), 2, 1, 0; (4421), 6, 1, 0; (4430), 2, 1, 0; (4538), 11, 2, 1; (4673), 2, 1, 0; (4793), 6, 1, 0; (4808), 3, 1, 0; (4830), 9, 2, 2; (4929), 2, 1, 0; (4941), 3, 1, 0; (4991), 2, 1, 0; (5017), 3, 1, 0; (5077), 2, 1, 0; (5346), 30, 6, 9; (5356), 3, 1, 0; (5430), 5, 1, 0; (5630), 2, 1, 0; (5649), 2, 1, 0; (5746), 16, 3, 3; (5793), 3, 1, 0; (5824), 3, 1, 0; (5831), 4, 2, 7; (5849), 6, 1, 0; (5874), 4, 1, 0; (5899), 8, 3, 10; (5963), 8, 2, 1; (6086), 4, 1, 0; (6238), 5, 1, 0; (6388), 6, 1, 0; (6397), 4, 1, 0; (6419), 3, 1, 0; (6505), 5, 1, 0; (6551), 6, 1, 0; (6587), 2, 1, 0; (6627), 6, 1, 0; (6900), 1, 1, 0; (6915), 13, 3, 6; (6951), 6, 1, 0; (6960), 6, 1, 0; (6967), 3, 1, 0; (7155), 8, 3, 2; (7170), 3, 1, 0; (7282), 3, 1, 0; (7305), 3, 1, 0; (7393), 3, 1, 0; (7409), 12, 3, 7; (7660), 3, 1, 0; (7762), 2, 1, 0; (7768), 2, 1, 0; (7837), 6, 2, 1; (8174), 3, 1, 0; (8267), 8, 2, 1; (8281), 5, 1, 0; (8292), 3, 1, 0; (8658), 3, 1, 0; (8693), 6, 1, 0; (8806), 2, 1, 0; (8848), 3, 1, 0; (8979), 2, 1, 0; (9043), 4, 2, 1; (9197), 5, 2, 22; (9304), 18, 3, 3; (9534), 4, 1, 0; (9557), 11, 2, 1; (9571), 3, 1, 0; (9634), 3, 1, 0; (9858), 4, 1, 0; (9887), 3, 1, 0; (9890), 2, 1, 0; (9939), 3, 1, 0; (10076), 8, 2, 1; (10086), 4, 1, 0; (10087), 11, 3, 3; (10191), 3, 1, 0; (10363), 4, 1, 0; (10369), 6, 1, 0; (10487), 5, 2, 3; (10493), 3, 1, 0; (10533), 14, 3, 6; (10543), 3, 1, 0; (10564), 2, 1, 0; (10913), 3, 1, 0; (11018), 6, 1, 0; (11032), 5, 1, 0; (11106), 6, 1, 0; (11199), 17, 5, 5; (11277), 6, 1, 0; (11285), 5, 1, 0; (11343), 2, 1, 0; (11394), 6, 2, 2; (11535), 8, 2, 6; (11576), 3, 1, 0; (11599), 2, 1, 0; (11971), 6, 2, 7; (12243), 5, 1, 0; (12290), 4, 1, 0; (12521), 2, 1, 0; (12536), 9, 2, 2; (12742), 2, 1, 0; (12822), 13, 3, 3; (12996), 3, 1, 0; (13120), 11, 2, 2; (13261), 2, 1, 0; (13342), 3, 1, 0; (13495), 3, 1, 0; (13537), 2, 1, 0; (13643), 3, 1, 0; (13644), 6, 1, 0; (13713), 6, 1, 0; (13740), 2, 1, 0; (13936), 5, 1, 0; (13953), 4, 1, 0; (13968), 6, 1, 0; (14028), 14, 3, 2; (14091), 2, 1, 0; (14095), 6, 1, 0; (14096), 6, 1, 0; (14378), 3, 1, 0; (14475), 7, 2, 2; (14587), 5, 2, 6; (14706), 8, 3, 2; (14813), 2, 1, 0; (14851), 7, 2, 1; (15171), 2, 1, 0; (15446), 4, 2, 2; (15558), 3, 1, 0; (15696), 3, 1, 0; (15709), 3, 1, 0; (15777), 6, 2, 3; (15903), 4, 1, 0; (15909), 2, 1, 0; (15960), 2, 1, 0; (16381), 10, 3, 2; (16394), 19, 5, 10; (16537), 6, 1, 0; (16581), 2, 1, 0; (16941), 6, 1, 0; (16955), 6, 2, 6; (17122), 2, 1, 0; (17184), 2, 1, 0; (17344), 3, 1, 0; (17366), 3, 1, 0; (17441), 14, 4, 9; (17494), 2, 1, 0; (17549), 4, 1, 0; (17572), 5, 1, 0; (18034), 2, 1, 0; (18129), 6, 2, 2; (18145), 4, 2, 9; (18311), 4, 2, 6; (18338), 3, 1, 0; (18414), 2, 1, 0; (18537), 6, 1, 0; (19198), 3, 1, 0; (19261), 3, 1, 0; (19288), 2, 1, 0; (19341), 6, 1, 0; (19455), 8, 3, 3; (19514), 6, 1, 0; (19541), 5, 1, 0; (19615), 2, 1, 0; (19692), 2, 1, 0; (19757), 9, 2, 8; (19930), 5, 1, 0; (19983), 6, 1, 0; (20036), 4, 1, 0; (20139), 3, 1, 0; (20322), 4, 1, 0; (20410), 4, 1, 0; (20621), 2, 1, 0; (20762), 3, 1, 0; (21015), 2, 1, 0; (21020), 6, 2, 1; (21034), 6, 1, 0; (21080), 6, 1, 0; (21150), 3, 1, 0; (21152), 2, 1, 0; (21230), 6, 1, 0; (22684), 2, 1, 0; (22718), 2, 1, 0; (22804), 3, 1, 0; (23328), 2, 1, 0; (23433), 6, 1, 0; (23441), 4, 2, 1; (23447), 2, 1, 0; (23512), 3, 1, 0; (23813), 2, 1, 0; (23961), 5, 1, 0; (24314), 4, 1, 0; (24614), 3, 1, 0; (24648), 2, 1, 0; (24652), 21, 5, 9; (24811), 8, 2, 2; (25687), 3, 1, 0; (25699), 2, 1, 0; (26231), 3, 1, 0; (26535), 4, 1, 0; (26585), 3, 1, 0; (26589), 3, 1, 0; (26795), 2, 1, 0; (26812), 3, 1, 0; (26967), 2, 1, 0; (27070), 3, 1, 0; (27076), 6, 3, 4; (27346), 5, 2, 2; (27720), 2, 1, 0; (27773), 3, 1, 0; (27809), 4, 1, 0; (28084), 4, 1, 0; (28246), 3, 1, 0; (28919), 2, 1, 0; (29196), 2, 1, 0; (29202), 3, 1, 0; (29310), 3, 1, 0; (29628), 3, 1, 0; (29769), 5,



2, 5; (30274), 2, 1, 0; (30848), 2, 1, 0; (30859), 8, 2, 17; (30886), 6, 1, 0; (31024), 2, 1, 0; (31060), 2, 1, 0; (31494), 5, 2, 2; (31497), 3, 1, 0; (31954), 3, 1, 0; (32768), 3, 1, 0; (32814), 4, 1, 0; (32835), 2, 1, 0; (32940), 12, 3, 1; (33384), 2, 1, 0; (33588), 5, 1, 0; (33912), 2, 1, 0; (34767), 3, 1, 0; (34998), 5, 2, 1; (35006), 2, 1, 0; (35019), 2, 1, 0; (35194), 2, 1, 0; (35378), 3, 1, 0; (35772), 2, 1, 0; (35865), 2, 1, 0; (36973), 2, 1, 0; (37274), 6, 1, 0; (37481), 2, 1, 0; (37586), 6, 1, 0; (37588), 6, 1, 0; (38165), 3, 1, 0; (38945), 2, 1, 0; (39892), 2, 1, 0; (40188), 5, 2, 10; (40529), 2, 1, 0; (40733), 2, 1, 0; (40845), 2, 1, 0; (41349), 2, 1, 0; (42700), 3, 1, 0; (43722), 2, 1, 0; (43764), 4, 1, 0; (43796), 3, 1, 0; (44021), 3, 1, 0; (44428), 3, 1, 0; (45468), 6, 1, 0; (46607), 5, 1, 0; (46673), 2, 1, 0; (47118), 1, 1, 0; (47316), 3, 1, 0; (48448), 3, 1, 0; (49293), 2, 1, 0; (49328), 2, 1, 0; (50313), 2, 1, 0; (50816), 5, 1, 0; (50897), 2, 1, 0; (51011), 2, 1, 0; (51019), 2, 1, 0; (51131), 2, 1, 0; (52234), 3, 1, 0; (52282), 3, 1, 0; (52411), 2, 1, 0; (52444), 5, 2, 4; (53017), 3, 1, 0; (53152), 4, 1, 0; (53161), 2, 1, 0; (53510), 4, 1, 0; (55734), 6, 1, 0; (56324), 7, 2, 8; (56518), 3, 1, 0; (56766), 3, 1, 0; (57467), 4, 1, 0; (58145), 2, 1, 0; (58218), 3, 1, 0; (58281), 2, 1, 0; (59291), 6, 2, 2; (60575), 2, 1, 0; (60906), 2, 1, 0; (63602), 1, 1, 0; (64267), 2, 1, 0; (65637), 3, 1, 0; (65866), 4, 1, 0; (66934), 1, 1, 0; (69311), 3, 1, 0; (70961), 6, 1, 0; (72396), 2, 1, 0; (73523), 6, 1, 0; (76828), 2, 1, 0; (79186), 8, 2, 2; (79558), 16, 3, 6; (79823), 6, 1, 0; (79844), 4, 2, 6; (79937), 6, 1, 0; (81306), 3, 1, 0; (82698), 2, 1, 0; (85292), 6, 1, 0; (85537), 3, 1, 0; (88168), 1, 1, 0; (89429), 2, 1, 0; (90774), 3, 1, 0; (90976), 3, 1, 0; (96163), 2, 1, 0; (98935), 3, 1, 0; (100035), 4, 1, 0; (100585), 3, 1, 0; (101496), 3, 1, 0; (101649), 3, 1, 0; (104224), 2, 1, 0; (118089), 3, 1, 0; (127414), 3, 1, 0; (130415), 3, 1, 0; (130600), 6, 1, 0; (131431), 3, 1, 0; (132300), 3, 2, 9; (133038), 9, 2, 7; (137058), 4, 1, 0; (137123), 2, 1, 0; (143303), 3, 1, 0; (159560), 3, 1, 0; (179179), 5, 1, 0; (228549), 2, 1, 0; (250226), 2, 1, 0; (252690), 2, 1, 0; (306790), 15, 3, 4; (310464), 4, 1, 0; (313591), 4, 1, 0; (391211), 2, 1, 0; [1906, 442, 0\*, 2014/08/07–2014/09/05]

### C43 Hoyerswerda

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

[peter.lindner@arcor.de]

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

UCAC-4

2014 QM<sub>295</sub>, 2, 1, 0; (15449), 2, 1, 0; (110058), 2, 1, 0; (148691), 2, 1, 0; (245695), 2, 1, 0; (290662), 2, 1, 0; (365356), 2, 1, 0; (404568), 2, 1, 0; [16, 8, 0\*, 2014/08/27]

### C44 A. Volta Observatory, Lanzo d'Intelvi

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

0.40-m  $f/3.5$  reflector + CCD

UCAC-4

2014 QN<sub>32</sub>, 2, 1, 0; 2014 QX<sub>32</sub>, 3, 1, 0; [5, 2, 0\*, 2014/08/21]

### C47 Nonndorf

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

0.25-m  $f/4.8$  reflector + CCD

UCAC-4

2013 WT<sub>67</sub>, 5, 1, 0; 2014 PR<sub>62</sub>, 4, 1, 0; 2014 QV<sub>168</sub>, 2, 1, 0; (640), 4, 1, 0; (695), 4, 1, 0; (1005), 3, 1, 0; (1355), 4, 1, 0; (1467), 4, 1, 0; (1571), 4, 1, 0; (1679), 4, 1, 0; (1747), 4, 1, 0; (1891), 4, 1, 0; (1943), 4, 1, 0; (2083), 4, 1, 0; (2829), 4, 1, 0; (2943), 4, 1, 0; (3017), 4, 1, 0; (3094), 4, 1, 0; (3346), 4, 1, 0; (3387), 4, 1, 0; (3759), 5, 1, 0; (4125), 3, 1, 0; (4291), 4, 1, 0; (4388), 4, 1, 0; (4566), 4, 1, 0; (4820), 4, 1, 0; (5137), 4, 1, 0; (5755), 4, 1, 0; (6500), 4, 1, 0; (6505), 4, 1, 0; (6982), 2, 1, 0; (7215), 4, 1, 0; (7353), 4, 1, 0; (7736), 4, 1, 0; (7813), 4, 1, 0; (8180), 4, 1, 0; (9549), 4, 1, 0; (9739), 4, 1, 0; (11586), 4, 1, 0; (13081), 4, 1, 0; (13520), 4, 1, 0; (14201), 4, 1, 0; (14362), 4, 1, 0; (14469), 4, 1, 0; (14936), 4, 1, 0; (15197), 4, 1, 0; (16243), 4, 1, 0; (16256), 4, 1, 0; (16851), 4, 1, 0; (17529), 4, 1, 0; (18890), 4, 1, 0; (19615), 4, 1, 0; (23892), 4, 1, 0; (26419), 4, 1, 0; (26757), 4, 1, 0; (26967), 4, 1, 0; (28281), 4, 1, 0; (31381), 4, 1, 0; (33903), 4, 1, 0; (37274), 4, 1, 0; (38516), 4, 1, 0; (39781), 4, 1, 0; (42807), 4, 1, 0; (44503), 4, 1, 0; (45661), 4, 1, 0; (46637), 4, 1, 0; (54760), 4, 1, 0; (54857), 3, 1, 0; (55752), 4, 1, 0; (58003), 4, 1, 0; (58050), 4, 1, 0; (59490), 5, 1, 0; (66036), 4, 1, 0; (67255), 3, 1, 0; (67537), 2, 1, 0; (70367), 4, 1, 0; (70411), 4, 1, 0; (76229), 4, 1, 0; (81754), 4, 1, 0; (82197), 4, 1, 0; (86203), 4, 1, 0; (91004), 4, 1, 0; (110154), 4, 1, 0; (142585), 4, 1, 0; (158810), 3, 1, 0; (159465), 2, 1, 0; (159476), 4, 1, 0; (159482), 4, 1, 0; (179857), 4, 1, 0; (243819), 4, 1, 0; (276049), 4, 1, 0; (285944), 4, 1, 0; (306795), 4, 1, 0; [362, 93, 0\*, 2014/08/08–2014/09/06]

### 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, J. M. Bauer, T. Grav, J. R. Masiero, J. W. Dailey, R. M. Cutri, E. L. Wright, C. Nugent, S. Sonnett, R. Stevenson

<http://wise.ssl.berkeley.edu/mission.sci.html>

2MASS

1987 SF<sub>3</sub>, 142, 14, 11; 1999 ST<sub>16</sub>, 38, 6, 7; 2000 UR<sub>25</sub>, 28, 3, 1; 2001 MF<sub>1</sub>, 6, 1, 0; 2001 OK<sub>59</sub>, 14, 2, 1; 2001 RO<sub>113</sub>, 12, 3, 1; 2003 AQ<sub>21</sub>, 22, 3, 2; 2003 AV<sub>66</sub>, 10, 2, 1; 2003 VV<sub>11</sub>, 12, 3, 1; 2003 YK<sub>121</sub>, 34, 5, 2; 2004 BN<sub>10</sub>, 58, 6, 3; 2004 XW<sub>16</sub>, 14, 2, 1; 2005 WM<sub>38</sub>, 14, 3, 1; 2006 SE<sub>285</sub>, 10, 2, 1; 2007 RU<sub>10</sub>, 18, 2, 1; 2008 OC<sub>6</sub>, 54, 7, 4; 2009 KJ, 10, 2, 1; 2014 HK<sub>180</sub>, 14, 2, 1; 2014 KV<sub>74</sub>, 14, 3, 1; 2014 LR<sub>26</sub>, 16, 2, 1; 2014 OT<sub>392</sub> \*, 14, 2, 1; 2014 PD<sub>58</sub>, 14, 2, 1; 2014 PN<sub>59</sub> \*, 16, 3, 1; 2014 PB<sub>68</sub> \*, 16, 3, 2; 2014 PC<sub>68</sub> \*, 18, 2, 1; 2014 PF<sub>68</sub> \*, 26, 3, 1; 2014 PP<sub>69</sub> \*, 10, 1, 0; 2014 QA<sub>266</sub> \*, 24, 4, 2; 2014 QJ<sub>266</sub> \*, 10, 3, 1; 2014 QY<sub>406</sub> \*, 26, 3, 2; 2014 QH<sub>433</sub> \*, 42, 5, 2; 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(38548), 16, 2, 1; (38590), 30, 5, 5; (38683), 24, 4, 2; (38770), 30, 3, 1; (38912), 14, 3, 1; (38935), 26, 2, 1; (38962), 26, 3, 1; (39107), 4, 1, 0; (39191), 6, 1, 0; (39192), 16, 2, 1; (39262), 32, 4, 2; (39322), 30, 4, 2; (39523), 34, 4, 2; (39525), 16, 2, 1; (39567), 6, 1, 0; (39572), 16, 2, 1; (39902), 26, 3, 1; (40148), 10, 2, 1; (40208), 12, 2, 1; (40272), 24, 3, 2; (40316), 84, 8, 8; (40909), 26, 3, 1; (41354), 58, 6, 5; (41541), 12, 2, 1; (41684), 26, 3, 2; (42082), 22, 3, 1; (42599), 48, 6, 5; (42720), 16, 2, 1; (42910), 30, 3, 1; (43123), 14, 2, 1; (43133), 14, 3, 1; (43245), 12, 2, 1; (43288), 26, 3, 1; (43349), 38, 4, 2; (43497), 10, 3, 1; (43625), 20, 3, 1; (43722), 30, 3, 1; (43738), 34, 4, 2; (44886), 74, 7, 6; (45179), 18, 3, 1; (45248), 36, 4, 2; (45256), 28, 4, 2; (45397), 14, 2, 1; (45533), 20, 3, 1; (45645), 16, 3, 1; (45859), 12, 2, 1; (46189), 10, 2, 1; (46244), 12, 2, 1; (46591), 20, 3, 1; (47710), 14, 2, 1; (47827), 16, 3, 1; (48307), 26, 3, 1; (48410), 12, 3, 1; (48533), 10, 2, 1; (48830), 26, 3, 1; (49347), 18, 3, 2; (49500), 22, 3, 1; (49513), 26, 3, 1; (49947), 18, 3, 1; (50024), 26, 3, 1; (50246), 18, 3, 1; (50379), 34, 3, 2; (50645), 14, 2, 1; (50760), 20, 3, 1; (51527), 14, 3, 2; (52280), 32, 3, 1; (52820), 26, 4, 2; (53052), 28, 3, 1; (53655), 22, 3, 1; (54047), 16, 3, 1; (54443), 32, 4, 2; (54917), 24, 3, 2; (54935), 8, 2, 1; (55009), 30, 3, 1; (55015), 32, 3, 1; (55049), 10, 3, 1; (55129), 18, 3, 2; (55567), 38, 4, 2; (55688), 24, 3, 2; (56172), 14, 2, 1; (56471), 22, 3, 2; (56630), 30, 3, 1; (57110), 62, 6, 7; (58000), 18, 2, 1; (58068), 14, 3, 1; (58142), 16, 2, 1; (58213), 30, 3, 2; (58460), 40, 5, 6; (58629), 20, 2, 1; (58757), 16, 3, 1; (59305), 22, 3, 1; (60044), 10, 2, 1; (60291), 2, 1, 0; (60504), 14, 3, 1; (60770), 18, 2, 1; (60805), 18, 3, 2; (60868), 20, 3, 2; (60978), 8, 1, 0; (61471), 28, 4, 2; (61911), 12, 2, 1; (62091), 16, 3, 2; (62286), 32, 3, 2; (63442), 28, 3, 1; (63450), 36, 3, 2; (63471), 28, 3, 1; (64689), 22, 3, 1; (65375), 14, 3, 1; (65428), 26, 3, 2; (65673), 26, 3, 2; (66116), 20, 3, 1; (66258), 28, 4, 2; (67977), 32, 4, 2; (68050), 28, 3, 2; (68146), 42, 4, 2; (68348), 24, 2, 1; (68567), 28, 3, 1; (68677), 20, 3, 2; (68944), 28, 3, 2; (69245), 16, 2, 1; (69266), 68, 7, 7; (69436), 10, 2, 1; (70035), 24, 3, 1; (71722), 18, 2, 1; (71731), 16, 3, 1; (71966), 16, 3, 1; (72032), 16, 3, 2; (72852), 12, 3, 1; (73002), 18, 3, 1; (73632), 28, 3, 2; (73660), 10, 3, 1; (73690), 28, 3, 1; (73933), 20, 2, 1; (74539), 28, 4, 2; (74610), 14, 3, 1; (74755), 22, 3, 1; (75433), 20, 3, 1; (75559), 24, 3, 2; (76291), 14, 2, 1; (76411), 24, 4, 2; (76646), 18, 2, 1; (77278), 10, 2, 1; (77659), 18, 3, 1; (77720), 26, 3, 1; (78094), 16, 2, 1; (78699), 14, 3, 1; (78854), 14, 2, 1; (79144), 46, 5, 2; (81306), 18, 3, 1; (81462), 16, 3, 1; (81501), 16, 2, 1; (81543), 14, 2, 1; (81629), 12, 3, 1; (81797), 14, 2, 1; (82219), 32, 4, 2; (82323), 28, 3, 1; (83690), 16, 2, 1; (83956), 20, 3, 1; (85671), 16, 3, 2; (86063), 32, 3, 1; (86134), 26, 3, 1; (86652), 18, 3, 1; (86815), 20, 4, 2; (86831), 10, 2, 1; (87278), 12, 3, 1; (87993), 36, 4, 2; (88161), 50, 6, 6; (88222), 26, 6, 6; (88289), 16, 3, 1; (88996), 22, 3, 1; (89785), 12, 3, 1; (91617), 28, 3, 1; (91946), 14, 2, 1; (93960), 26, 3, 2; (93971), 22, 2, 1; (94465), 18, 2, 1; (95931), 10, 2, 1; (96187), 26, 3, 1; (96313), 26, 4, 2; (96593), 24, 3, 1; (96646), 20, 3, 2; (97931), 24, 3, 1; (98415), 48, 5, 7; (98889), 32, 4, 2; (99953), 14, 2, 1; (100315), 20, 2, 1; (100995), 16, 2, 1; (101930), 26, 3, 2; (102911), 26, 4, 2; (103617), 34, 4, 2; (104740), 14, 3, 2; (104880), 36, 4, 2; (104912), 16, 3, 1; (105391), 14, 3, 1; (105624), 24, 3, 2; (105674), 38, 4, 2; (106158), 34, 3, 1; (107544), 26, 3, 1; (107726), 36, 4, 2; (108158), 12, 2, 1; (108522), 16, 3, 1; (109380), 22, 3, 1; (109628), 36, 4, 2; (109965), 20, 3, 1; (111384), 24, 3, 1; (111685), 24, 3, 2; (112296), 32, 4, 2; (112350), 14, 3, 2; (112369), 18, 2, 1; (112618), 28, 3, 1; (113715), 24, 3, 1; (114179), 12, 2, 1; (115437), 24, 3, 1; (115535), 18, 2, 1; (115795), 18, 3, 1; (115853), 52, 6, 6; (116519), 22, 3, 1; (118268), 24, 4, 2; (118690), 20, 2, 1; (118761), 16, 3, 2; (119379), 12, 2, 1; (119751), 26, 3, 2; (120713), 16, 2, 1; (121128), 30, 4, 2; (122402), 12, 2, 1; (122683), 28, 3, 1; (126469), 12, 2, 1; (127900), 10, 2, 1; (128311), 14, 2, 1; (129519), 18, 3, 1; (129596), 14, 2, 1; (129754), 40, 5, 6; (130685), 22, 3, 2; (134721), 30, 4, 2; (136219), 16, 3, 1; (137011), 10, 2, 1; (137100), 10, 2, 1; (137900), 14, 2, 1; (139263), 10, 2, 1; (139592), 16, 3, 2; (140276), 22, 4, 2; (142213), 34, 5, 6; (143153), 46, 6, 6; (143303), 56, 6, 8; (145980), 12, 3, 2; (148608), 16, 3, 1; (148909), 20, 3, 1; (149375), 18, 3, 1; (150705), 36, 4, 2; (151143), 4, 1, 0; (152661), 30, 3, 1; (153596), 22, 3, 1; (153800), 20, 3, 1; (155088), 28, 3, 1; (155695), 46, 5, 6; (157995), 30, 4, 2; (158212), 20, 3, 2; (159454), 12, 1, 0; (159487), 30, 3, 2; (159857), 10, 2, 1; (160085), 12, 3, 1; (160937), 24, 4, 2; (165536), 24, 3, 2; (167006), 12, 3, 1; (168307), 22, 3, 2; (171698), 32, 4, 2; (171744), 68, 7, 7; (172466), 20, 3, 1; (174502), 10, 2, 1; (174613), 38, 4, 2; (175811), 20, 3, 1; (175895), 20, 3, 1; (176476), 20, 3, 1; (178280), 22, 3, 2; (181510), 12, 2, 1; (181712), 10, 3, 1; (182459), 22, 3, 1; (185748), 44, 6, 6; (187871), 8, 1, 0; (189818), 20, 3, 1; (190131), 14, 2, 1; (191583), 18, 3, 1; (197058), 20, 3, 1; (202100), 10, 3, 2; (208048), 20, 2, 1; (208099), 18, 3, 1; (210841), 22, 3, 1; (212417), 12, 2, 1; (213621), 22, 3, 2; (213825), 10, 2, 1; (214088), 16, 3, 1; (215936), 36, 4, 2; (217758), 30, 4, 2; (218063), 10, 1, 0; (218389), 18, 3, 1; (218418), 32, 3, 2; (218571), 28, 4, 2; (219358), 76, 8, 8; (219384), 10, 3, 2; (228684), 10, 2, 1; (230781), 24, 3, 1; (232231), 14, 2, 1; (235201), 12, 3, 2; (238093), 20, 3, 1; (238138), 32, 3, 2; (238220), 14, 3, 1; (241665), 10, 2, 1; (241763), 12, 3, 2; (244207), 12, 3, 1; (245828), 26, 3, 2; (247939), 22, 3, 2; (248275), 24, 3, 1; (250239), 42, 4, 2; (250247), 30, 4, 2; (250256), 12, 2, 1; (250389), 16, 3, 1; (251654), 32, 3, 2; (252069), 18, 2, 1; (252419), 26, 3, 1; (254943), 16, 3, 2; (256355), 56, 7, 6; (258102), 22, 3, 1; (258233), 20, 3, 2; (258315), 36, 5, 6; (258351), 22, 3, 2; (258371), 34, 4, 2; (259443), 16, 2, 1; (259432), 16, 3, 1; (263614), 10, 3, 1; (263991), 22, 3, 1; (265507), 14, 2, 1; (272619), 22, 4, 2; (275976), 14, 2, 1; (283733), 20, 2, 1; (285417), 28, 3, 2; (285594), 74, 8, 8; (293602), 32,



(402138), 22, 2, 1; (403197), 22, 3, 2; (403198), 36, 6, 3; (403561), 24, 2, 1; [25372, 1127, 11\*, 2014/07/28–2014/09/03]

### C73 Galați Observatory

O. Tercu, Curator, Str Regiment 11-Siret, no 6A, 800340 Galați, Romania

[ovidiu.tercu@gmail.com]

Observers O. Tercu, A. Dumitriu

0.2-m  $f/4$  astrograph + CCD, 0.4-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4

(15053), 18, 1, 0; (17708), 18, 1, 0; (27623), 18, 1, 0; (28911), 6, 1, 0; (53587), 19, 1, 0; (55729), 8, 1, 0; (81654), 31, 1, 0; (93118), 2, 1, 0; (98099), 11, 1, 0; (113774), 17, 1, 0; (134430), 17, 1, 0; (143150), 13, 1, 0; (182109), 2, 1, 0; (254717), 18, 1, 0; (364267), 6, 1, 0; (402001), 5, 1, 0; [209, 16, 0\*, 2014/08/19–2014/08/30]

### C74 Observatorio El Teatrillo de Lyra, Àger

M. Soriano, Taulat 91 4-3, Barcelona 08005, Spain [margl@hotmail.com]

0.08-m  $f/6.5$  refractor

CMC

(16), 3, 1, 0; (242), 3, 1, 0; [6, 2, 0\*, 2014/08/28–2014/08/31]

### C77 Bernezzo Observatory

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

0.25-m  $f/4$  reflector + CCD

UCAC-4

2000 PN<sub>8</sub>, 5, 1, 0; 2006 SW<sub>247</sub>, 3, 1, 0; 2011 RZ, 3, 1, 0; 2014 NE<sub>63</sub>, 4, 1, 0; 2014 PA<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 4, 1, 0; 2014 QL<sub>32</sub>, 9, 2, 1; 2014 QR<sub>32</sub>, 3, 1, 0; 2014 QF<sub>362</sub>, 3, 1, 0; 2014 QM<sub>390</sub>, 3, 1, 0; 2014 RC, 2, 1, 0; 2014 RK, 3, 1, 0; (87309), 4, 1, 0; (276049), 3, 1, 0; (277616), 4, 1, 0; (285944), 5, 1, 0; (333578), 3, 1, 0; [67, 18, 0\*, 2014/08/07–2014/09/04]

### C85 Observatorio Cala d'Hort, Ibiza

I. de la Cueva, Abad y Lasiera 58Bis, Ibiza 07800, Spain

[ignaciodelacueva@redfarma.org]

Observers I. de la Cueva, J. L. Ferrer

Measurers A. Prats, M. J. Palomeque, M. A. Yuste, R. Quejigo

0.50-m  $f/3.6$  reflector + CCD

UCAC-4

2011 PP<sub>13</sub>, 11, 2, 1; 2014 QQ<sub>295</sub> \*, 15, 3, 3; 2014 QU<sub>304</sub> \*, 9, 2, 2; 2014 QJ<sub>306</sub> \*, 25, 5, 7; [60, 4, 3\*, 2014/08/23–2014/08/31]

### C94 MASTER-II Observatory, Tunka

V. Lipunov, SAI, Universitetskiy pr.13, 119992 Moscow, Russia

[lipunov2007@gmail.com]

Observers V. Lipunov, N. Tiurina, P. Balanutsa, E. Gorbovskoy, V. Kornilov,

N. Shatskiy, V. Chazov, A. Kuznetsov, D. Zimnukhov, V. Yurkov, D. Varda,

E. Sinyakov, V. Krushinsky, I. Zalozhni, A. Popov, K. Ivanov

Measurers N. Budnev, E. Konstantinov, O. Chuvalaev, V. Poleshchuk, O. Gress,

A. Tlatov, D. Dormidontov, V. Senik, V. Shumkov, S. Shurpakov,

A. Punanova, D. Denisenko

0.4-m  $f/2.5$  reflector + CCD

USNO-B1.0

2003 UH<sub>269</sub>, 2, 1, 0; 2005 XY<sub>41</sub>, 2, 1, 0; 2009 UA<sub>127</sub>, 2, 1, 0; (202), 2, 1, 0; (233), 12, 3, 2; (260), 3, 1, 0; (270), 3, 1, 0; (314), 2, 1, 0; (376), 2, 1, 0; (395), 2, 1, 0; (480), 3, 1, 0; (489), 7, 2, 4; (695), 14, 3, 2; (773), 2, 1, 0; (1001), 2, 1, 0; (1032), 4, 1, 0; (1057), 3, 2, 2; (1103), 4, 2, 10; (1120), 2, 1, 0; (1241), 3, 1, 0; (1315), 3, 1, 0; (1444), 2, 1, 0; (1503), 2, 1, 0; (1573), 6, 1, 0; (1917), 3, 1, 0; (2014), 6, 1, 0; (2048), 3, 1, 0; (2131), 5, 2, 1; (2158), 2, 1, 0; (2524), 2, 1, 0; (2535), 2, 1, 0; (2546), 2, 1, 0; (3066), 6, 1, 0; (3546), 3, 1, 0; (3578), 3, 1, 0; (3658), 2, 1, 0; (3898), 3, 1, 0; (4125), 4, 1, 0; (4209), 4, 2, 20; (4899), 17, 3, 3; (4910), 4, 2, 3; (5630), 2, 1, 0; (5655), 2, 1, 0; (5691), 6, 1, 0; (5766), 4, 1, 0; (5961), 3, 1, 0; (5963), 7, 2, 17; (6095), 8, 2, 2; (6182), 2, 1, 0; (6882), 3, 1, 0; (6888), 5, 1, 0; (7591), 1, 1, 0; (7942), 2, 1, 0; (8617), 2, 1, 0; (8828), 3, 1, 0; (9197), 2, 1, 0;

(9519), 2, 1, 0; (9739), 4, 1, 0; (9759), 3, 1, 0; (9853), 4, 1, 0; (10235), 4, 1, 0; (10495), 5, 1, 0; (11435), 11, 3, 4; (12689), 2, 1, 0; (12764), 3, 1, 0; (12848), 2, 1, 0; (13110), 5, 1, 0; (13295), 2, 1, 0; (14249), 2, 1, 0; (14358), 5, 1, 0; (14721), 2, 1, 0; (14764), 5, 1, 0; (15269), 2, 1, 0; (15344), 3, 1, 0; (15580), 2, 1, 0; (16025), 2, 1, 0; (16323), 3, 1, 0; (16381), 20, 4, 7; (16551), 4, 1, 0; (17013), 3, 1, 0; (17572), 6, 2, 3; (17708), 2, 1, 0; (19133), 10, 2, 1; (19538), 2, 1, 0; (19750), 2, 1, 0; (21244), 2, 1, 0; (22274), 12, 2, 1; (24652), 6, 1, 0; (26582), 2, 1, 0; (26585), 2, 1, 0; (26972), 6, 2, 7; (27690), 9, 2, 1; (29769), 4, 2, 1; (30859), 2, 1, 0; (31205), 11, 2, 1; (32505), 2, 1, 0; (32575), 3, 1, 0; (35406), 2, 1, 0; (37498), 2, 1, 0; (37588), 3, 1, 0; (38027), 2, 1, 0; (38686), 2, 1, 0; (40161), 2, 1, 0; (40188), 5, 1, 0; (41347), 2, 1, 0; (43732), 3, 1, 0; (44275), 2, 1, 0; (47062), 1, 1, 0; (52763), 2, 1, 0; (54477), 2, 1, 0; (58050), 2, 1, 0; (61113), 4, 1, 0; (61149), 2, 1, 0; (65705), 5, 2, 2; (65712), 2, 1, 0; (70411), 12, 2, 1; (70436), 2, 1, 0; (70519), 2, 1, 0; (80770), 2, 1, 0; (81829), 3, 1, 0; (84518), 2, 1, 0; (86194), 4, 1, 0; (90691), 5, 1, 0; (107227), 2, 1, 0; (110323), 2, 1, 0; (114792), 6, 2, 1; (115053), 2, 1, 0; (133038), 4, 2, 10; (136289), 2, 1, 0; (141494), 1, 1, 0; (225813), 12, 2, 1; (243736), 3, 1, 0; (252256), 6, 1, 0; (363532), 2, 1, 0; [514, 134, 0\*, 2014/08/08–2014/09/04]

### C95 SATINO Remote Observatory, Haute Provence

D. Husar, Himmelsmoor 18, 22397 Hamburg, Germany [husar.d@gmx.de]

0.30-m  $f/10$  Schmidt-Cassegrain + CCD +  $f/6.1$  focal reducer

UCAC-3

2013 JJ, 6, 2, 3; [6, 1, 0\*, 2014/06/30–2014/07/03]

### D00 ISON-Kislovodsk Observatory

D. Chestnov, st. Svobody, 35/22, RU-125362 Moscow, Russia [chestd@gmail.com]

Observer V. Nevski

Measurers V. Nevski, V. Savanevych

0.4-m  $f/2.3$  reflector + CCD

UCAC-4

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(226939), 4, 1, 0; (228929), 4, 1, 0; (235611), 4, 1, 0; (237429), 4, 1, 0; (238454), 3, 1, 0; (240568), 4, 1, 0; (241118), 4, 1, 0; (241131), 4, 1, 0; (241676), 4, 1, 0; (242188), 4, 1, 0; (243497), 4, 1, 0; (243808), 4, 1, 0; (244691), 4, 1, 0; (244697), 4, 1, 0; (244717), 6, 1, 0; (245874), 4, 1, 0; (246995), 4, 1, 0; (247180), 4, 1, 0; (247590), 4, 1, 0; (250235), 4, 1, 0; (251074), 2, 1, 0; (251227), 3, 1, 0; (252272), 4, 1, 0; (252327), 4, 1, 0; (252408), 4, 1, 0; (252549), 3, 1, 0; (252565), 4, 1, 0; (253174), 4, 1, 0; (254700), 4, 1, 0; (256085), 4, 1, 0; (256101), 4, 1, 0; (256184), 4, 1, 0; (256364), 4, 1, 0; (256460), 4, 1, 0; (257544), 4, 1, 0; (257844), 4, 1, 0; (257932), 4, 1, 0; (258397), 4, 1, 0; (259483), 4, 1, 0; (259584), 4, 1, 0; (261007), 4, 1, 0; (261767), 3, 1, 0; (262474), 4, 1, 0; (264107), 4, 1, 0; (264440), 4, 1, 0; (265034), 4, 1, 0; (266944), 4, 1, 0; (269517), 3, 1, 0; (275143), 4, 1, 0; (285282), 4, 1, 0; (285447), 4, 1, 0; (285649), 4, 1, 0; (285885), 4, 1, 0; (287727), 3, 1, 0; (288007), 4, 1, 0; (294404), 4, 1, 0; (296779), 4, 1, 0; (306496), 4, 1, 0; (306627), 4, 1, 0; (307596), 4, 1, 0; (309241), 4, 1, 0; (309776), 4, 1, 0; (310091), 4, 1, 0; (310480), 4, 1, 0; (310497), 4, 1, 0; (310885), 4, 1, 0; (312078), 4, 1, 0; (312176), 4, 1, 0; (312490), 3, 1, 0; (312522), 4, 1, 0; (313060), 3, 1, 0; (313064), 4, 1, 0; (313347), 3, 1, 0; (313591), 4, 1, 0; (313609), 4, 1, 0; (313855), 4, 1, 0; (314955), 4, 1, 0; (315253), 4, 1, 0; (315439), 4, 1, 0; (317007), 4, 1, 0; (317296), 4, 1, 0; (317511), 4, 1, 0; (317711), 4, 1, 0; (321736), 4, 1, 0; (322612), 4, 1, 0; (322826), 4, 1, 0; (322943), 4, 1, 0; (322992), 4, 1, 0; (323224), 4, 1, 0; (323746), 4, 1, 0; (323880), 4, 1, 0; (325795), 4, 1, 0; (325882), 4, 1, 0; (327070), 4, 1, 0; (327868), 3, 1, 0; (341913), 3, 1, 0; (354350), 4, 1, 0; (357335), 4, 1, 0; (360518), 4, 1, 0; (361640), 4, 1, 0; (363184), 4, 1, 0; (363916), 3, 1, 0; (367974), 4, 1, 0; (397007), 4, 1, 0; (399031), 4, 1, 0; (399322), 4, 1, 0; (399344), 4, 1, 0; (399572), 4, 1, 0; (402074), 4, 1, 0; (402928), 3, 1, 0; (402947), 4, 1, 0; [3554, 892, 4\*, 2014/07/21-2014/09/04]

## D03 Rantiga Osservatorio, Tincana

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

Observers M. Żołnowski, M. Kusiak

0.4-m  $f/3.8$  reflector + CCD

UCAC-4

2003 SW<sub>33</sub>, 3, 1, 0; 2003 TR<sub>16</sub>, 3, 1, 0; 2004 PX<sub>75</sub>, 2, 1, 0; 2004 XL<sub>182</sub>, 2, 1, 0; 2006 SF<sub>363</sub>, 3, 1, 0; 2007 CP<sub>29</sub>, 3, 1, 0; 2007 UM<sub>25</sub>, 4, 1, 0; 2007 XH<sub>30</sub>, 2, 1, 0; 2008 AW<sub>48</sub>, 2, 1, 0; 2008 YE<sub>172</sub>, 3, 1, 0; 2009 RT<sub>5</sub>, 1, 0; 2009 SA<sub>307</sub>, 2, 1, 0; 2010 OV<sub>28</sub>, 4, 1, 0; 2010 XU<sub>53</sub>, 3, 1, 0; 2011 WE<sub>68</sub>, 2, 1, 0; 2012 BU<sub>152</sub>, 3, 1, 0; 2012 RC<sub>17</sub>, 2, 1, 0; 2012 SY<sub>63</sub>, 2, 1, 0; 2012 TP<sub>137</sub>, 3, 1, 0; 2013 WE<sub>48</sub>, 2, 1, 0; 2013 YO<sub>16</sub>, 5, 2, 1; 2014 FE<sub>30</sub>, 2, 1, 0; 2014 MX<sub>52</sub>, 3, 1, 0; 2014 MA<sub>53</sub>, 4, 1, 0; 2014 MK<sub>61</sub>, 2, 1, 0; 2014 ML<sub>66</sub>, 3, 1, 0; 2014 NZ<sub>36</sub>, 5, 1, 0; 2014 OJ<sub>129</sub>, 2, 1, 0; 2014 PK<sub>39</sub>, 3, 1, 0; 2014 PD<sub>40</sub>, 2, 1, 0; 2014 PE<sub>42</sub>, 4, 1, 0; 2014 PK<sub>52</sub>, 4, 1, 0; 2014 PC<sub>55</sub>, 4, 1, 0; 2014 QD<sub>1</sub>, 2, 1, 0; 2014 QY<sub>1</sub> \*, 5, 2, 1; 2014 QG<sub>24</sub>, 4, 1, 0; 2014 QE



0; (7089), 4, 1, 0; (10738), 8, 2, 1; (11164), 4, 1, 0; (11514), 4, 1, 0; (14068), 4, 1, 0; (15133), 4, 1, 0; (15134), 4, 1, 0; (21788), 2, 1, 0; (25084), 4, 1, 0; (28484), 4, 1, 0; (31507), 4, 1, 0; (32276), 3, 1, 0; (32575), 2, 1, 0; (34963), 4, 1, 0; (38488), 4, 1, 0; (38906), 4, 1, 0; (38925), 4, 1, 0; (40549), 4, 1, 0; (40669), 2, 1, 0; (41325), 3, 1, 0; (42009), 4, 1, 0; (43674), 3, 1, 0; (44275), 3, 1, 0; (44463), 3, 1, 0; (53203), 4, 1, 0; (54876), 3, 1, 0; (60337), 3, 1, 0; (60784), 3, 1, 0; (61149), 4, 1, 0; (61273), 3, 1, 0; (66124), 4, 1, 0; (67987), 4, 1, 0; (69215), 3, 1, 0; (69629), 3, 1, 0; (69958), 3, 1, 0; (70257), 2, 1, 0; (71816), 6, 2, 1; (73013), 3, 1, 0; (78811), 7, 2, 3; (81674), 3, 1, 0; (83834), 3, 1, 0; (85540), 4, 1, 0; (87437), 2, 1, 0; (87964), 2, 1, 0; (92529), 2, 1, 0; (94649), 2, 1, 0; (94731), 3, 1, 0; (105420), 4, 1, 0; (111013), 3, 1, 0; (114778), 3, 1, 0; (124480), 3, 1, 0; (128048), 4, 2, 1; (128205), 4, 1, 0; (128222), 4, 1, 0; (132130), 3, 1, 0; (148338), 4, 1, 0; (150515), 3, 1, 0; (162595), 2, 1, 0; (165177), 4, 1, 0; (165421), 3, 1, 0; (170268), 3, 1, 0; (173455), 4, 1, 0; (183254), 2, 1, 0; (197803), 3, 1, 0; (215954), 4, 1, 0; (217740), 3, 1, 0; (226414), 4, 1, 0; (238444), 3, 1, 0; (244738), 4, 1, 0; (246045), 3, 1, 0; (253217), 3, 1, 0; (255530), 4, 1, 0; (284895), 4, 1, 0; (291188), 2, 1, 0; (292933), 2, 1, 0; (307690), 3, 1, 0; (361557), 6, 2, 3; (361617), 3, 1, 0; (399369), 3, 1, 0; (401190), 4, 1, 0; (402395), 2, 1, 0; (403233), 2, 1, 0; [433, 131, 5\*, 2012/08/19–2014/09/01]

### D06 Associazione Tuscolana di Astronomia, Domatore

A. Tomassini, Via Lazio 14, 00040 Rocca di Papa (RM), Italy  
[nikkor5@gmail.com]

0.35-m  $f/10$  Ritchey-Chrétien + CCD  
UCAC-3

(276049), 7, 1, 0; [7, 1, 0\*, 2014/08/29]

### D29 Purple Mountain Observatory, XuYi Station

H. B. Zhao, 2# West Beijing Road, Nanjing 210008, China [meteorzh@pmo.ac.cn]  
Observers H. B. Zhao, J. S. Yao, H. Lu, Y. Z. Wu, R. Q. Hong, L. F. Hu  
Measurers H. B. Zhao, Y. Xia  
1.04-m Schmidt + CCD

2011 UL<sub>279</sub>, 4, 1, 0; 2012 DL<sub>47</sub>, 3, 1, 0; 2013 HX<sub>36</sub>, 4, 1, 0; 2014 CH<sub>21</sub>, 3, 1, 0; 2014 GV<sub>38</sub>, 4, 1, 0; 2014 KE<sub>24</sub>, 3, 1, 0; 2014 KH<sub>90</sub>, 4, 1, 0; 2014 LS<sub>17</sub>, 4, 1, 0; 2014 MG<sub>36</sub>, 4, 1, 0; 2014 NX<sub>59</sub>, 4, 1, 0; 2014 OY<sub>151</sub>, 4, 1, 0; 2014 OM<sub>198</sub>, 4, 1, 0; 2014 OW<sub>234</sub>, 4, 1, 0; 2014 OR<sub>341</sub>, 3, 1, 0; 2014 PA, 3, 1, 0; 2014 PA<sub>15</sub>, 3, 1, 0; [58, 16, 0\*, 2007/08/13–2014/04/03]

### D35 Lulin Observatory

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

Observers C. W. Chen, Z. W. Zhang

Measurer Z. W. Zhang

0.41-m  $f/8.8$  Ritchey-Chrétien + 2K×2K CCD +  $f/6.25$  focal reducer  
USNO

2013 EH<sub>58</sub>, 3, 1, 0; 2014 EG<sub>50</sub>, 3, 1, 0; 2014 OX<sub>96</sub>, 3, 1, 0; 2014 OY<sub>151</sub>, 3, 1, 0; [12, 4, 0\*, 2006/07/20–2007/08/05]

### D44 Ishigakijima Astronomical Observatory

H. Fukushima, Ishigakijima Astronomical Observatory, NAOJ, 1024-1 Arakawa,  
Ishigaki, Okinawa-ken, 907-0024, Japan [hideo.fukushima@nao.ac.jp]

Observer H. Hanayama

1.05-m  $f/6.5$  Cassegrain + CCD

USNO-B1.0

2014 OU<sub>200</sub>, 27, 3, 3; 2014 PA<sub>25</sub>, 20, 3, 3; 2014 PE<sub>47</sub>, 10, 2, 4; 2014 QU<sub>115</sub>, 11, 2, 9; 2014 QX<sub>151</sub> \*, 18, 3, 11; 2014 QR<sub>432</sub> \*, 10, 2, 3; 2014 QS<sub>432</sub> \*, 15, 3, 4; [111, 7, 3\*, 2014/08/19–2014/09/04]

### D54 MASTER-II Observatory, Blagoveshchensk

V. Lipunov, SAI, Universitetskij pr.13, 119992 Moscow, Russia  
[lipunov2007@gmail.com]

Observers V. Lipunov, N. Tiurina, P. Balanutsa, E. Gorbovskoy, V. Kornilov,  
N. Shatskiy, V. Chazov, A. Kuznetsov, D. Zimmukhov, V. Yurkov, D. Varda,  
E. Sinyakov, V. Krushinsky, I. Zalozhnihi, A. Popov, K. Ivanov

Measurers N. Budnev, E. Konstantinov, O. Chuvalaev, V. Poleshchuk, O. Gress,  
A. Tlatov, D. Dormidontov, V. Senik, V. Shumkov, S. Shurpakov,  
A. Punanova, D. Denisenko

0.4-m  $f/2.5$  reflector + CCD

USNO-B1.0

(63), 2, 1, 0; (314), 2, 1, 0; (1509), 1, 1, 0; (4904), 2, 1, 0; (5510), 2, 1, 0; (5527), 3, 1, 0; (5963), 3, 1, 0; (7407), 1, 1, 0; (7667), 6, 1, 0; (8479), 5, 1, 0; (8511), 3, 1, 0; (10317), 4, 1, 0; (10942), 2, 1, 0; (11535), 3, 1, 0; (13698), 5, 1, 0; (14091), 4, 1, 0; (14706), 3, 1, 0; (14901), 2, 1, 0; (14999), 6, 1, 0; (15423), 3, 1, 0; (16517), 4, 1, 0; (16616), 1, 1, 0; (20621), 5, 2, 6; (21062), 5, 1, 0; (22036), 2, 1, 0; (22804), 2, 1, 0; (22971), 2, 1, 0; (24652), 7, 2, 6; (24700), 6, 1, 0; (24737), 2, 1, 0; (26585), 2, 1, 0; (26811), 3, 1, 0; (27761), 3, 1, 0; (29082), 6, 1, 0; (29206), 3, 1, 0; (35721), 2, 1, 0; (37917), 2, 1, 0; (40188), 6, 1, 0; (42762), 2, 1, 0; (43036), 3, 1, 0; (44169), 6, 1, 0; (54201), 6, 1, 0; (54997), 2, 1, 0; (66403), 1, 1, 0; (70202), 1, 1, 0; (75907), 1, 1, 0; (84930), 2, 1, 0; (96518), 3, 1, 0; (97834), 4, 1, 0; (129389), 3, 1, 0; (133038), 3, 1, 0; (217838), 2, 1, 0; (252598), 2, 1, 0; [166, 53, 0\*, 2014/08/29–2014/09/05]

### D90 RAS Observatory, Moorook

K. Hills, 2 Brindley Brae, Kinver, DY7 6LR, England [kevinhills@me.com] (30)

0.41-m  $f/9$  Ritchey-Chrétien + CCD

UCAC-4

2014 QB, 3, 1, 0; 2014 QF, 3, 1, 0; 2014 QG, 3, 1, 0; 2014 QK, 3, 1, 0; 2014 QL, 3, 1, 0; 2014 QB<sub>2</sub>, 3, 1, 0; 2014 QO<sub>33</sub>, 3, 1, 0; 2014 QO<sub>295</sub>, 3, 1, 0; 2014 QP<sub>295</sub>, 3, 1, 0; 2014 QS<sub>362</sub>, 3, 1, 0; 2014 QV<sub>391</sub>, 3, 1, 0; 2014 RC, 5, 1, 0; (23922), 5, 1, 0; (60558), 24, 8, 27; [67, 14, 0\*, 2014/08/03–2014/09/04]

### D95 Kurihara

T. Takahashi, Kurihara, Miyagi-ken, 989-5171 Japan [pxi16412@nifty.com]

0.25-m  $f/4.2$  reflector + CCD

UCAC-4

(1454), 3, 1, 0; (3061), 3, 1, 0; (4941), 3, 1, 0; (5868), 3, 1, 0; (6968), 2, 1, 0; (7984), 3, 1, 0; (8960), 2, 1, 0; (9028), 3, 1, 0; (9156), 3, 1, 0; (10067), 2, 1, 0; (10099), 3, 1, 0; (12843), 3, 1, 0; (16153), 2, 1, 0; (17894), 2, 1, 0; (19587), 3, 1, 0; (21535), 2, 1, 0; (22437), 3, 1, 0; (24497), 2, 1, 0; (32005), 3, 1, 0; (32592), 3, 1, 0; (34514), 3, 1, 0; (38189), 3, 1, 0; (38727), 2, 1, 0; (50313), 3, 1, 0; (56392), 3, 1, 0; (66447), 2, 1, 0; (110917), 3, 1, 0; (117831), 6, 2, 17; [78, 28, 0\*, 2014/08/02–2014/08/19]

### E07 Murrumbateman

D. Herald, 3 Lupin Pl, Murrumbateman, NSW 2582, Australia

[DRHerald@bigpond.net.au]

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

UCAC-4

(3780), 2, 1, 0; (10757), 2, 1, 0; (104990), 2, 1, 0; (110752), 2, 1, 0; (130238), 2, 1, 0; (144351), 2, 1, 0; (205816), 2, 1, 0; (218795), 2, 1, 0; (232755), 2, 1, 0; (254657), 2, 1, 0; (303389), 2, 1, 0; (310515), 2, 1, 0; (312981), 2, 1, 0; (314609), 2, 1, 0; (324143), 2, 1, 0; (329741), 2, 1, 0; (362613), 2, 1, 0; (401814), 2, 1, 0; [36, 18, 0\*, 2014/08/20–2014/08/29]

### E12 Siding Spring Survey

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

Observers R. H. McNaught, G. J. Garradd

0.5-m Uppsala Schmidt + CCD

UCAC-2

1995 SW<sub>20</sub>, 16, 4, 1367; 2000 UR<sub>25</sub>, 12, 3, 77; 2001 SB<sub>192</sub>, 4, 1, 0; 2004 BQ<sub>134</sub>, 4, 1, 0; 2004 CD<sub>38</sub>, 8, 2, 10; 2004 PF<sub>70</sub>, 3, 1, 0; 2005 AA<sub>17</sub>, 4, 1, 0; 2006 AO<sub>34</sub>, 4, 1, 0; 2006 PM<sub>25</sub>, 3, 1, 0; 2006 XV<sub>55</sub>, 4, 1, 0; 2007 VL<sub>212</sub>, 3, 1, 0; 2008 AN<sub>46</sub>, 4, 1, 0; 2008 CZ<sub>119</sub>, 4, 1, 0; 2008 CW<sub>121</sub>, 4, 1, 0; 2009 DA<sub>98</sub>, 4, 1, 0; 2010 PE<sub>47</sub>, 4, 1, 0; 2010 RW<sub>144</sub>, 4, 1, 0; 2010 TL<sub>188</sub>, 4, 1, 0; 2011 TG<sub>6</sub>, 4, 1, 0; 2011 YR<sub>23</sub>, 4, 1, 0; 2011 YX<sub>67</sub>, 11, 3, 68; 2012 TN<sub>289</sub>, 4, 1, 0; 2013 BA, 4, 1, 0; 2013 BF<sub>32</sub>, 5, 1, 0; 2013 CG<sub>8</sub>, 4, 1, 0; 2013 CP<sub>76</sub>, 4, 1, 0; 2013 DH<sub>16</sub>, 4, 1, 0; 2013 EW<sub>127</sub>, 4, 1, 0; 2014 EB<sub>11</sub>, 7, 2, 25; 2014 EG<sub>50</sub>, 7, 2, 1948; 2014 FT<sub>22</sub>, 4, 1, 0; 2014 FK<sub>55</sub>, 4, 1, 0; 2014 GN<sub>42</sub>, 4, 1, 0; 2014 GO<sub>49</sub>, 4, 1, 0; 2014 HU<sub>37</sub>, 12, 3, 2588; 2014 JR<sub>15</sub>, 4, 1, 0; 2014 JB<sub>23</sub>, 8, 2, 2562; 2014 JY<sub>78</sub>, 4, 1, 0; 2014 KB<sub>52</sub>, 4, 1, 0; 2014 KQ<sub>57</sub>, 4, 1, 0; 2014 KX<sub>61</sub>, 4, 1, 0; 2014 KZ<sub>75</sub>, 4, 1, 0; 2014 KP<sub>101</sub>, 4, 1, 0; 2014 LN<sub>10</sub>, 4, 1, 0; 2014 LX<sub>18</sub>, 4, 1, 0; 2014 LD<sub>23</sub>, 2, 1, 0; 2014 LK<sub>24</sub>, 4, 1, 0; 2014 MW<sub>20</sub>, 4, 1,



0; 2014 MF<sub>21</sub>, 4, 1, 0; 2014 MS<sub>22</sub>, 3, 1, 0; 2014 ME<sub>34</sub>, 8, 2, 2532; 2014 MA<sub>41</sub>, 7, 2, 24; 2014 MS<sub>48</sub>, 12, 3, 49; 2014 MC<sub>49</sub>, 15, 4, 1502; 2014 MR<sub>53</sub>, 2, 1, 0; 2014 MS<sub>56</sub>, 4, 1, 0; 2014 MO<sub>65</sub>, 7, 2, 15; 2014 MS<sub>68</sub>, 4, 1, 0; 2014 MJ<sub>69</sub>, 7, 2, 1469; 2014 NT<sub>9</sub>, 4, 1, 0; 2014 NH<sub>18</sub>, 4, 1, 0; 2014 NL<sub>18</sub>, 4, 1, 0; 2014 NC<sub>44</sub>, 4, 1, 0; 2014 NT<sub>54</sub>, 4, 1, 0; 2014 NQ<sub>59</sub>, 3, 1, 0; 2014 NO<sub>60</sub>, 4, 1, 0; 2014 NM<sub>65</sub>, 2, 1, 0; 2014 ON<sub>2</sub>, 4, 1, 0; 2014 OW<sub>5</sub>, 4, 1, 0; 2014 OG<sub>11</sub>, 4, 1, 0; 2014 OR<sub>42</sub>, 4, 1, 0; 2014 OC<sub>43</sub>, 7, 2, 11; 2014 OU<sub>73</sub>, 4, 1, 0; 2014 OY<sub>103</sub>, 4, 1, 0; 2014 OA<sub>107</sub>, 4, 1, 0; 2014 OU<sub>111</sub>, 4, 1, 0; 2014 OT<sub>115</sub>, 3, 1, 0; 2014 OJ<sub>129</sub>, 7, 2, 61; 2014 OT<sub>159</sub>, 3, 1, 0; 2014 OU<sub>174</sub>, 2, 1, 0; 2014 OL<sub>180</sub>, 4, 1, 0; 2014 OB<sub>192</sub>, 4, 1, 0; 2014 OG<sub>192</sub>, 5, 2, 16; 2014 OQ<sub>202</sub>, 4, 1, 0; 2014 OA<sub>220</sub>, 4, 1, 0; 2014 OX<sub>278</sub>, 4, 1, 0; 2014 OA<sub>307</sub>, 3, 1, 0; 2014 OO<sub>337</sub>, 4, 1, 0; 2014 OA<sub>344</sub>, 4, 1, 0; 2014 OW<sub>391</sub>, 4, 1, 0; 2014 PA<sub>10</sub>, 3, 83; 2014 PL<sub>6</sub>, 4, 1, 0; 2014 PG<sub>7</sub>, 2, 1, 0; 2014 PA<sub>15</sub>, 3, 1, 0; 2014 PN<sub>22</sub>, 4, 1, 0; 2014 QY<sub>2</sub>, 4, 1, 0; 2014 QJ<sub>134</sub>, 4, 1, 0; *[464, 97, 0\*, 2004/04/20–2013/06/16]*

### E16 Grove Creek Observatory, Trunkey

A. Mattingly, 2 Silex Road, Mosman, NSW 2088, Australia

[andrew@mattingly.com]

Observer M. S. Ferlito

0.36-m *f*/11 Schmidt-Cassegrain + CCD

USNO-SA2.0

(60558), 2, 1, 0; *[2, 1, 0\*, 2014/08/30]*

### E23 Arcadia

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

0.35-m Schmidt-Cassegrain + CCD

UCAC-4

2014 NA<sub>64</sub>, 3, 1, 0; 2014 PA<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 5, 1, 0; 2014 QB, 5, 1, 0; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QA<sub>33</sub>, 12, 3, 3; 2014 QO<sub>33</sub>, 3, 1, 0; 2014 QX<sub>33</sub>, 6, 1, 0; 2014 QY<sub>363</sub>, 2, 1, 0; 2014 QA<sub>433</sub>, 3, 1, 0; *[48, 11, 0\*, 2014/07/16–2014/08/31]*

### E89 Geyserland Observatory, Pukehangi

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

[caro@wave.co.nz]

0.25-m *f*/8.2 Schmidt-Cassegrain + CCD

UCAC-4

2013 WT<sub>67</sub>, 34, 4, 13; (285944), 23, 2, 1; *[57, 2, 0\*, 2014/08/09–2014/08/22]*

### 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, M. Willman, A. Schultz, T. Goggia

Measurers M. Micheli, P. Veres, B. Bolin, K. Chambers, S. Chastel, L. Denneau,

H. Flewelling, M. Huber, E. Magnier, E. Schunova, R. Wainscoat, C. Waters,

T. Vorobjov, R. J. Wainscoat

1.8-m *f*/4.4 Ritchey-Chrétien + CCD

PPMXL, 2MASS

1981 EM<sub>32</sub>, 3, 1, 0; 1991 TB<sub>2</sub>, 4, 1, 0; 1992 BC, 15, 4, 13; 1993 TG<sub>6</sub>, 4, 1, 0; 1993 TO<sub>26</sub>, 3, 1, 0; 1994 CJ<sub>1</sub>, 4, 1, 0; 1995 SR<sub>15</sub>, 8, 2, 3; 1995 SW<sub>20</sub>, 16, 4, 59; 1995 UD<sub>39</sub>, 4, 1, 0; 1995 UN<sub>55</sub>, 12, 3, 8; 1995 YL<sub>9</sub>, 7, 2, 5; 1996 GA<sub>4</sub>, 8, 2, 2; 1996 TV<sub>18</sub>, 8, 2, 11; 1996 TQ<sub>28</sub>, 8, 2, 7; 1996 TJ<sub>32</sub>, 4, 1, 0; 1996 VA<sub>25</sub>, 6, 2, 1; 1996 XX<sub>17</sub>, 7, 2, 2; 1997 SO<sub>8</sub>, 2, 1, 0; 1997 SK<sub>11</sub>, 11, 3, 3; 1998 AP<sub>1</sub>, 4, 1, 0; 1998 BN<sub>9</sub>, 6, 2, 5; 1998 BU<sub>16</sub>, 18, 5, 989; 1998 BO<sub>26</sub>, 3, 1, 0; 1998 BU<sub>38</sub>, 2, 1, 0; 1998 DF<sub>11</sub>, 9, 2, 1; 1998 QF<sub>1</sub>, 27, 7, 58; 1998 QD<sub>2</sub>, 3, 1, 0; 1998 QO<sub>58</sub>, 4, 1, 0; 1998 RS<sub>13</sub>, 7, 2, 13; 1998 RU<sub>48</sub>, 21, 6, 117; 1998 RM<sub>56</sub>, 3, 1, 0; 1998 SW<sub>8</sub>, 3, 1, 0; 1998 SR<sub>20</sub>, 10, 3, 32; 1998 SR<sub>32</sub>, 2, 1, 0; 1998 SD<sub>52</sub>, 4, 1, 0; 1998 SL<sub>97</sub>, 4, 1, 0; 1998 SE<sub>150</sub>, 8, 2, 1; 1998 TP<sub>8</sub>, 5, 1, 0; 1998 TQ<sub>22</sub>, 11, 2, 7; 1998 US<sub>50</sub>, 10, 3, 10; 1998 VW<sub>40</sub>, 9, 3, 4; 1998 WL<sub>38</sub>, 4, 1, 0; 1999 BV<sub>28</sub>, 3, 1, 0; 1999 FU<sub>81</sub>, 3, 1, 0; 1999 JD<sub>111</sub>, 10, 3, 556; 1999 TE<sub>43</sub>, 8, 2, 1; 1999 TH<sub>50</sub>, 3, 1, 0; 1999 TO<sub>50</sub>, 8, 2, 10; 1999 TL<sub>58</sub>, 2, 1, 0; 1999 TC<sub>71</sub>, 3, 1, 0; 1999 TD<sub>207</sub>, 3, 1, 0; 1999 TJ<sub>264</sub>, 6, 2, 1; 1999 UM<sub>55</sub>, 4, 1, 0; 1999 UU<sub>55</sub>, 2, 1, 0; 1999 UF<sub>57</sub>, 4, 1, 0; 1999 VP<sub>57</sub>, 4, 1, 0; 1999 VO<sub>65</sub>, 3, 1, 0; 1999 VF<sub>75</sub>, 4, 1, 0; 1999 VM<sub>80</sub>, 4, 1, 0; 1999 VA<sub>113</sub>, 12, 3, 11; 1999 VQ<sub>116</sub>, 10, 2, 1; 1999 VR<sub>124</sub>, 8, 2, 1; 1999 VN<sub>140</sub>, 3, 1, 0; 1999 VF<sub>149</sub>, 8, 1, 0; 1999 VF<sub>210</sub>, 3, 1, 0; 1999 VL<sub>231</sub>, 7, 2, 29; 1999 WC<sub>19</sub>, 8, 2, 1; 1999 XQ<sub>139</sub>, 4, 1, 0; 1999 XR<sub>251</sub>, 11, 3, 3; 1999 XA<sub>255</sub>, 3, 1, 0; 1999 XO<sub>260</sub>, 3, 1, 0; 1999 YE<sub>8</sub>, 4, 1, 0; 1999 YJ<sub>8</sub>, 3, 1, 0; 2000 AJ<sub>220</sub>, 4, 1, 0; 2000 AK<sub>221</sub>, 7, 1, 0; 2000 BL<sub>39</sub>, 4, 1, 0; 2000 CA<sub>3</sub>, 7, 2, 1; 2000 CL<sub>73</sub>, 11, 3, 5; 2000 DJ<sub>89</sub>, 9, 3, 11; 2000 DB<sub>111</sub>, 4, 1, 0; 2000 EX<sub>202</sub>, 2, 1,

0; 2000 GB<sub>3</sub>, 4, 1, 0; 2000 GR<sub>132</sub>, 6, 2, 1; 2000 NQ<sub>8</sub>, 12, 2, 12; 2000 QA<sub>115</sub>, 6, 2, 3; 2000 QZ<sub>186</sub>, 13, 4, 10; 2000 QA<sub>210</sub>, 2, 1, 0; 2000 RZ<sub>36</sub>, 13, 4, 8; 2000 RO<sub>53</sub>, 4, 1, 0; 2000 RA<sub>85</sub>, 4, 1, 0; 2000 SP<sub>30</sub>, 8, 2, 3; 2000 SZ<sub>48</sub>, 18, 4, 1311; 2000 SL<sub>55</sub>, 4, 1, 0; 2000 SF<sub>64</sub>, 4, 1, 0; 2000 SZ<sub>79</sub>, 4, 1, 0; 2000 SO<sub>83</sub>, 4, 1, 0; 2000 SP<sub>204</sub>, 4, 1, 0; 2000 SQ<sub>288</sub>, 8, 2, 10; 2000 SY<sub>334</sub>, 4, 1, 0; 2000 SV<sub>345</sub>, 7, 3, 12; 2000 SR<sub>365</sub>, 12, 3, 12; 2000 TX<sub>5</sub>, 3, 1, 0; 2000 TW<sub>7</sub>, 4, 1, 0; 2000 TX<sub>25</sub>, 4, 1, 0; 2000 UJ<sub>18</sub>, 4, 1, 0; 2000 UR<sub>25</sub>, 5, 2, 27; 2000 UH<sub>70</sub>, 7, 2, 1; 2000 VJ<sub>19</sub>, 10, 3, 2; 2000 VT<sub>41</sub>, 12, 2, 12; 2000 VO<sub>53</sub>, 7, 2, 1; 2000 WU<sub>11</sub>, 3, 1, 0; 2000 WL<sub>13</sub>, 8, 2, 1; 2000 WU<sub>63</sub>, 4, 1, 0; 2000 WT<sub>80</sub>, 4, 1, 0; 2000 WY<sub>138</sub>, 4, 1, 0; 2000 WP<sub>170</sub>, 4, 1, 0; 2000 XF<sub>27</sub>, 4, 1, 0; 2000 YK<sub>94</sub>, 8, 2, 2; 2000 YM<sub>108</sub>, 3, 1, 0; 2001 AQ<sub>49</sub>, 4, 1, 0; 2001 BM<sub>12</sub>, 16, 4, 6; 2001 BR<sub>32</sub>, 7, 2, 1; 2001 CZ<sub>28</sub>, 2, 1, 0; 2001 DW<sub>23</sub>, 6, 2, 2; 2001 DD<sub>55</sub>, 11, 3, 13; 2001 FH<sub>185</sub>, 3, 1, 0; 2001 HE<sub>17</sub>, 4, 1, 0; 2001 HL<sub>30</sub>, 3, 1, 0; 2001 KF<sub>18</sub>, 4, 1, 0; 2001 NJ<sub>2</sub>, 3, 1, 0; 2001 NH<sub>13</sub>, 8, 2, 484; 2001 NP<sub>22</sub>, 2, 1, 0; 2001 OA<sub>10</sub>, 11, 3, 14; 2001 OM<sub>28</sub>, 7, 2, 1; 2001 OE<sub>31</sub>, 8, 2, 1; 2001 OO<sub>40</sub>, 12, 3, 10; 2001 OQ<sub>44</sub>, 3, 1, 0; 2001 OV<sub>44</sub>, 8, 2, 23; 2001 OH<sub>66</sub>, 4, 1, 0; 2001 OQ<sub>95</sub>, 4, 1, 0; 2001 PY<sub>4</sub>, 2, 1, 0; 2001 PB<sub>15</sub>, 7, 2, 5; 2001 PC<sub>16</sub>, 9, 3, 11; 2001 PG<sub>23</sub>, 3, 1, 0; 2001 PM<sub>34</sub>, 4, 1, 0; 2001 PE<sub>36</sub>, 4, 1, 0; 2001 PR<sub>36</sub>, 4, 1, 0; 2001 PT<sub>60</sub>, 4, 1, 0; 2001 PY<sub>64</sub>, 2, 1, 0; 2001 QX<sub>16</sub>, 4, 9; 2001 QN<sub>33</sub>, 4, 1, 0; 2001 QT<sub>71</sub>, 2, 1, 0; 2001 QO<sub>85</sub>, 3, 1, 0; 2001 QU<sub>89</sub>, 4, 2, 3; 2001 QR<sub>100</sub>, 7, 2, 3; 2001 QP<sub>110</sub>, 3, 1, 0; 2001 QP<sub>127</sub>, 17, 3, 532; 2001 QX<sub>128</sub>, 4, 1, 0; 2001 QS<sub>151</sub>, 13, 4, 8; 2001 QJ<sub>153</sub>, 8, 2, 5; 2001 QH<sub>185</sub>, 3, 1, 0; 2001 QK<sub>189</sub>, 11, 3, 2; 2001 QU<sub>207</sub>, 12, 4, 10; 2001 QD<sub>215</sub>, 22, 5, 51; 2001 QZ<sub>251</sub>, 4, 1, 0; 2001 QA<sub>255</sub>, 4, 1, 0; 2001 QC<sub>257</sub>, 4, 1, 0; 2001 QB<sub>262</sub>, 12, 3, 12; 2001 QT<sub>273</sub>, 3, 1, 0; 2001 QF<sub>275</sub>, 8, 2, 1; 2001 QT<sub>280</sub>, 4, 1, 0; 2001 QH<sub>288</sub>, 6, 2, 1; 2001 QH<sub>327</sub>, 11, 3, 11; 2001 QN<sub>329</sub>, 14, 4, 55; 2001 RV<sub>7</sub>, 8, 2, 12; 2001 RD<sub>9</sub>, 3, 1, 0; 2001 RK<sub>21</sub>, 3, 1, 0; 2001 RO<sub>36</sub>, 15, 4, 14; 2001 RO<sub>39</sub>, 3, 1, 0; 2001 RQ<sub>43</sub>, 7, 2, 896; 2001 RP<sub>47</sub>, 4, 1, 0; 2001 RR<sub>54</sub>, 4, 1, 0; 2001 RE<sub>59</sub>, 3, 1, 0; 2001 RW<sub>72</sub>, 3, 1, 0; 2001 RM<sub>98</sub>, 4, 1, 0; 2001 RH<sub>103</sub>, 4, 1, 0; 2001 RW<sub>111</sub>, 14, 4, 8; 2001 RF<sub>113</sub>, 3, 1, 0; 2001 RH<sub>118</sub>, 4, 1, 0; 2001 RT<sub>119</sub>, 8, 2, 3; 2001 RB<sub>127</sub>, 14, 4, 9; 2001 RM<sub>132</sub>, 4, 1, 0; 2001 RS<sub>150</sub>, 3, 1, 0; 2001 RQ<sub>154</sub>, 3, 1, 0; 2001 SY<sub>1</sub>, 4, 1, 0; 2001 SZ<sub>13</sub>, 12, 3, 3; 2001 SQ<sub>24</sub>, 11, 3, 10; 2001 SK<sub>34</sub>, 3, 1, 0; 2001 SS<sub>48</sub>, 12, 3, 7; 2001 SJ<sub>60</sub>, 3, 1, 0; 2001 SV<sub>60</sub>, 3, 1, 0; 2001 SN<sub>75</sub>, 4, 1, 0; 2001 SS<sub>86</sub>, 7, 1, 0; 2001 SO<sub>89</sub>, 3, 1, 0; 2001 SD<sub>91</sub>, 11, 3, 4; 2001 SJ<sub>95</sub>, 4, 1, 0; 2001 SY<sub>102</sub>, 10, 3, 11; 2001 SX<sub>111</sub>, 3, 1, 0; 2001 SM<sub>116</sub>, 8, 2, 1; 2001 SB<sub>127</sub>, 3, 1, 0; 2001 SM<sub>129</sub>, 8, 2, 9; 2001 SU<sub>144</sub>, 4, 1, 0; 2001 SR<sub>166</sub>, 8, 2, 1; 2001 SS<sub>172</sub>, 4, 1, 0; 2001 SX<sub>179</sub>, 6, 2, 1; 2001 SD<sub>182</sub>, 8, 2, 24; 2001 SL<sub>185</sub>, 7, 2, 3; 2001 SP<sub>191</sub>, 3, 1, 0; 2001 SB<sub>192</sub>, 3, 1, 0; 2001 SK<sub>193</sub>, 8, 2, 3; 2001 SL<sub>193</sub>, 4, 1, 0; 2001 SU<sub>193</sub>, 6, 1, 0; 2001 SM<sub>198</sub>, 4, 1, 0; 2001 SL<sub>199</sub>, 8, 2, 2; 2001 SR<sub>215</sub>, 8, 2, 13; 2001 SK<sub>219</sub>, 12, 3, 13; 2001 SB<sub>221</sub>, 4, 1, 0; 2001 SD<sub>223</sub>, 3, 1, 0; 2001 SV<sub>223</sub>, 4, 1, 0; 2001 SQ<sub>225</sub>, 3, 1, 0; 2001 SJ<sub>255</sub>, 10, 3, 13; 2001 SN<sub>259</sub>, 3, 1, 0; 2001 SR<sub>288</sub>, 4, 1, 0; 2001 SA<sub>294</sub>, 4, 1, 0; 2001 SF<sub>298</sub>, 7, 2, 1; 2001 SB<sub>313</sub>, 3, 1, 0; 2001 SL<sub>323</sub>, 11, 2, 3; 2001 SE<sub>324</sub>, 4, 1, 0; 2001 SC<sub>326</sub>, 10, 3, 11; 2001 SO<sub>352</sub>, 3, 1, 0; 2001 SB<sub>354</sub>, 7, 2, 9; 2001 TD<sub>4</sub>, 4, 1, 0; 2001 TR<sub>5</sub>, 4, 1, 0; 2001 TX<sub>9</sub>, 4, 1, 0; 2001 TX<sub>16</sub>, 11, 3, 10; 2001 TT<sub>18</sub>, 7, 2, 10; 2001 TM<sub>26</sub>, 7, 2, 1; 2001 TC<sub>30</sub>, 3, 1, 0; 2001 TN<sub>52</sub>, 12, 3, 7; 2001 TD<sub>58</sub>, 3, 1, 0; 2001 TL<sub>86</sub>, 7, 2, 2; 2001 TF<sub>90</sub>, 3, 1, 0; 2001 TV<sub>95</sub>, 5, 2, 10; 2001 TS<sub>112</sub>, 3, 1, 0; 2001 TV<sub>135</sub>, 3, 1, 0; 2001 TO<sub>138</sub>, 4, 1, 0; 2001 TE<sub>140</sub>, 4, 1, 0; 2001 TV<sub>153</sub>, 3, 1, 0; 2001 TD<sub>161</sub>, 4, 1, 0; 2001 TA<sub>162</sub>, 14, 4, 1293; 2001 TK<sub>166</sub>, 3, 1, 0; 2001 TS<sub>182</sub>, 14, 4, 9; 2001 TM<sub>183</sub>, 3, 1, 0; 2001 TE<sub>199</sub>, 3, 1, 0; 2001 TA<sub>201</sub>, 7, 2, 13; 2001 TF<sub>204</sub>, 4, 1, 0; 2001 TL<sub>222</sub>, 7, 2, 3; 2001 TH<sub>225</sub>, 7, 2, 19; 2001 TG<sub>231</sub>, 8, 2, 1; 2001 TT<sub>232</sub>, 3, 1, 0; 2001 TV<sub>237</sub>, 4, 1, 0; 2001 TN<sub>238</sub>, 3, 1, 0; 2001 TK<sub>244</sub>, 4, 1, 0; 2001 TA<sub>252</sub>, 3, 1, 0; 2001 TS<sub>254</sub>, 6, 2, 5; 2001 TG<sub>257</sub>, 4, 1, 0; 2001 TN<sub>257</sub>, 10, 2, 3; 2001 TT<sub>258</sub>, 4, 1, 0; 2001 TU<sub>258</sub>, 4, 1, 0; 2001 TJ<sub>259</sub>, 11, 3, 10; 2001 TK<sub>259</sub>, 3, 1, 0; 2001 TG<sub>261</sub>, 7, 2, 1; 2001 TH<sub>262</sub>, 4, 1, 0; 2001 TM<sub>262</sub>, 4, 1, 0; 2001 UM<sub>12</sub>, 12, 3, 9; 2001 UH<sub>1</sub>, 3, 1, 0; 2001 UR<sub>4</sub>, 4, 1, 0; 2001 UT<sub>8</sub>, 4, 1, 0; 2001 UL<sub>12</sub>, 12, 3, 10; 2001 UM<sub>18</sub>, 2, 1, 0; 2001 UD<sub>20</sub>, 4, 1, 0; 2001 UD<sub>25</sub>, 11, 3, 11; 2001 UK<sub>37</sub>, 3, 1, 0; 2001 UL<sub>43</sub>, 7, 2, 3; 2001 UU<sub>58</sub>, 3, 1, 0; 2001 UU<sub>62</sub>, 6, 2, 1; 2001 UP<sub>72</sub>, 4, 1, 0; 2001 US<sub>77</sub>, 7, 2, 5; 2001 UU<sub>78</sub>, 4, 1, 0; 2001 UK<sub>85</sub>, 15, 3, 3; 2001 UW<sub>91</sub>, 4, 1, 0; 2001 UP<sub>95</sub>, 16, 3, 6; 2001 UQ<sub>103</sub>, 3, 1, 0; 2001 UB<sub>105</sub>, 4, 1, 0; 2001 UB<sub>106</sub>, 4, 1, 0; 2001 UN<sub>107</sub>, 2, 1, 0; 2001 UP<sub>115</sub>, 11, 2, 1; 2001 UO<sub>124</sub>, 8, 2, 1; 2001 UL<sub>142</sub>, 4, 1, 0; 2001 UH<sub>172</sub>, 3, 1, 0; 2001 UG<sub>183</sub>, 4, 1, 0; 2001 UO<sub>184</sub>, 4, 1, 0; 2001 UO<sub>204</sub>, 4, 1, 0; 2001 UG<sub>209</sub>, 4, 1, 0; 2001 UK<sub>213</sub>, 4, 1, 0; 2001 UC<sub>216</sub>, 4, 1, 0; 2001 UG<sub>218</sub>, 8, 2, 11; 2001 UO<sub>226</sub>, 11, 3, 89; 2001 UW<sub>228</sub>, 8, 2, 13; 2001 UZ<sub>228</sub>, 4, 1, 0; 2001 UA<sub>229</sub>, 4, 1, 0; 2001 UT<sub>230</sub>, 4, 1, 0; 2001 UG<sub>232</sub>, 3, 1, 0; 2001 VS<sub>4</sub>, 3, 1, 0; 2001 VJ<sub>7</sub>, 4, 1, 0; 2001 VA<sub>29</sub>, 4, 1, 0; 2001 VH<sub>63</sub>, 4, 1, 0; 2001 VS<sub>74</sub>, 8, 2, 7; 2001 VT<sub>91</sub>, 6, 2, 7; 2001 VY<sub>124</sub>, 3, 1, 0; 2001 WO<sub>18</sub>, 4, 1, 0; 2001 WC<sub>20</sub>, 11, 3, 7; 2001 WN<sub>32</sub>, 7, 2, 7; 2001 WS<sub>36</sub>, 3, 1, 0; 2001 WL<sub>43</sub>, 4, 1, 0; 2001 WB<sub>44</sub>, 3, 1, 0; 2001 WL<sub>55</sub>, 7, 2, 2; 2001 WL<sub>56</sub>, 3, 1, 0; 2001 WD<sub>72</sub>, 12, 3, 4; 2001 WO<sub>95</sub>, 7, 2, 931; 2001 XS<sub>1</sub>, 3, 1, 0; 2001 XT<sub>32</sub>, 7, 2, 11; 2001 XB<sub>33</sub>, 3, 1, 0; 2001 XM<sub>46</sub>, 6, 2, 6; 2001 XM<sub>49</sub>, 4, 1, 0; 2001 XP<sub>79</sub>, 3, 1, 0; 2001 XE<sub>80</sub>, 4, 1, 0; 2001 XW<sub>88</sub>, 3, 1, 0; 2001 XE<sub>91</sub>, 3, 1, 0; 2001 XF<sub>120</sub>, 3, 1, 0; 2001 XZ<sub>138</sub>, 4, 1, 0; 2001 XO<sub>140</sub>, 3, 1, 0; 2001 XL<sub>141</sub>, 7, 2, 13; 2001 XF<sub>174</sub>, 5, 2, 11; 2001 XY<sub>198</sub>, 6, 2, 1; 2001 XO<sub>199</sub>, 3, 1, 0; 2001 XG<sub>217</sub>, 12, 3, 11; 2001 XY<sub>234</sub>, 3, 1, 0; 2001 XO<sub>260</sub>, 3, 1, 0; 2001 YC<sub>4</sub>, 7, 2, 16; 2001 YZ<sub>8</sub>, 4, 1, 0; 2001 YQ<sub>14</sub>, 3, 1, 0; 2001 YZ<sub>25</sub>, 3, 1, 0; 2001 YY<sub>35</sub>, 8, 2, 827; 2002 AX<sub>19</sub>, 13, 3, 11; 2002 AZ<sub>43</sub>, 4, 1, 0; 2002 AH<sub>53</sub>, 12, 3, 10; 2002 AH<sub>55</sub>, 15, 3, 16; 2002 AB<sub>56</sub>, 3, 1, 0; 2002 AN<sub>68</sub>, 2, 1, 0; 2002 AP<sub>98</sub>, 3, 1, 0; 2002 AA<sub>129</sub>, 4, 1, 0; 2002 AO<sub>131</sub>, 3, 1, 0; 2002 AY<sub>183</sub>, 3, 1, 0; 2002 BJ<sub>26</sub>, 13, 4, 13; 2002 CE<sub>60</sub>, 4, 1, 0; 2002 CY<sub>70</sub>, 3, 1, 0; 2002 CF<sub>98</sub>, 2, 1, 0; 2002 CM<sub>128</sub>, 8, 2, 33; 2002 CT<sub>176</sub>, 3, 1, 0; 2002 CO<sub>180</sub>, 4, 1, 0; 2002 CJ<sub>226</sub>, 4, 1, 0; 2002 CB<sub>246</sub>, 4, 1, 0; 2002 CL<sub>252</sub>, 3, 1, 0; 2002 CO<sub>257</sub>, 6, 2, 23; 2002 CG<sub>260</sub>, 14, 4, 13; 2002 CQ<sub>300</sub>, 7, 2,



4, 1, 0; 2002 EW<sub>133</sub>, 3, 1, 0; 2002 EH<sub>147</sub>, 7, 3, 6; 2002 EO<sub>162</sub>, 7, 2, 11; 2002 EA<sub>163</sub>, 6, 1, 0; 2002 FF<sub>15</sub>, 3, 1, 0; 2002 FG<sub>15</sub>, 6, 2, 11; 2002 FG<sub>22</sub>, 4, 1, 0; 2002 FK<sub>29</sub>, 4, 1, 0; 2002 FN<sub>30</sub>, 8, 2, 1; 2002 FW<sub>33</sub>, 4, 1, 0; 2002 FS<sub>41</sub>, 8, 2, 1; 2002 GF<sub>2</sub>, 6, 2, 1; 2002 GO<sub>2</sub>, 7, 1, 0; 2002 GB<sub>5</sub>, 15, 3, 4; 2002 GY<sub>9</sub>, 3, 1, 0; 2002 GQ<sub>38</sub>, 4, 1, 0; 2002 GS<sub>51</sub>, 4, 1, 0; 2002 GB<sub>66</sub>, 4, 1, 0; 2002 GZ<sub>82</sub>, 4, 1, 0; 2002 GK<sub>90</sub>, 3, 1, 0; 2002 GM<sub>112</sub>, 3, 1, 0; 2002 GU<sub>121</sub>, 8, 2, 1; 2002 GB<sub>135</sub>, 3, 1, 0; 2002 GP<sub>138</sub>, 4, 1, 0; 2002 GZ<sub>140</sub>, 4, 1, 0; 2002 GV<sub>155</sub>, 4, 1, 0; 2002 GU<sub>162</sub>, 8, 2, 7; 2002 GH<sub>190</sub>, 7, 2, 1; 2002 HX<sub>5</sub>, 4, 1, 0; 2002 HW<sub>8</sub>, 4, 1, 0; 2002 JM<sub>3</sub>, 3, 1, 0; 2002 JO<sub>9</sub>, 3, 1, 0; 2002 JV<sub>17</sub>, 3, 1, 0; 2002 JH<sub>36</sub>, 4, 1, 0; 2002 JX<sub>136</sub>, 7, 2, 514; 2002 MQ<sub>7</sub>, 4, 1, 0; 2002 MR<sub>7</sub>, 15, 4, 41; 2002 NX<sub>46</sub>, 3, 1, 0; 2002 NV<sub>71</sub>, 4, 1, 0; 2002 NW<sub>71</sub>, 4, 1, 0; 2002 NP<sub>75</sub>, 4, 1, 0; 2002 NC<sub>76</sub>, 6, 2, 1; 2002 NE<sub>81</sub>, 11, 3, 6; 2002 OR<sub>26</sub>, 3, 1, 0; 2002 OT<sub>26</sub>, 28, 8, 101; 2002 OK<sub>30</sub>, 3, 1, 0; 2002 OJ<sub>31</sub>, 4, 1, 0; 2002 OO<sub>35</sub>, 4, 1, 0; 2002 OK<sub>37</sub>, 3, 1, 0; 2002 PN<sub>1</sub>, 8, 2, 2; 2002 PS<sub>8</sub>, 7, 2, 12; 2002 PM<sub>14</sub>, 7, 1, 0; 2002 PC<sub>20</sub>, 3, 1, 0; 2002 PZ<sub>36</sub>, 20, 4, 70; 2002 PS<sub>64</sub>, 4, 1, 0; 2002 PT<sub>80</sub>, 8, 1, 0; 2002 PW<sub>106</sub>, 4, 1, 0; 2002 PU<sub>110</sub>, 4, 1, 0; 2002 PP<sub>113</sub>, 7, 2, 1; 2002 PV<sub>114</sub>, 6, 2, 3; 2002 PU<sub>130</sub>, 4, 1, 0; 2002 PX<sub>131</sub>, 4, 1, 0; 2002 PM<sub>138</sub>, 10, 3, 2; 2002 PV<sub>161</sub>, 8, 2, 1; 2002 PY<sub>162</sub>, 3, 1, 0; 2002 PC<sub>166</sub>, 4, 1, 0; 2002 PS<sub>173</sub>, 10, 3, 9; 2002 PE<sub>175</sub>, 3, 1, 0; 2002 PX<sub>176</sub>, 4, 1, 0; 2002 PC<sub>179</sub>, 2, 1, 0; 2002 PK<sub>180</sub>, 8, 2, 12; 2002 PV<sub>182</sub>, 4, 1, 0; 2002 PD<sub>184</sub>, 3, 1, 0; 2002 PB<sub>185</sub>, 10, 3, 14; 2002 PR<sub>185</sub>, 8, 2, 9; 2002 PM<sub>187</sub>, 3, 1, 0; 2002 PN<sub>191</sub>, 3, 1, 0; 2002 PW<sub>192</sub>, 4, 1, 0; 2002 PH<sub>194</sub>, 11, 3, 9; 2002 PK<sub>194</sub>, 9, 3, 9; 2002 PK<sub>195</sub>, 4, 1, 0; 2002 PS<sub>198</sub>, 3, 1, 0; 2002 PV<sub>199</sub>, 9, 3, 2; 2002 PC<sub>201</sub>, 10, 3, 3; 2002 PE<sub>202</sub>, 3, 1, 0; 2002 QC<sub>3</sub>, 6, 2, 13; 2002 QB<sub>6</sub>, 6, 2, 1; 2002 QP<sub>10</sub>, 6, 2, 1; 2002 QZ<sub>12</sub>, 15, 3, 14; 2002 QE<sub>34</sub>, 7, 2, 1; 2002 QU<sub>39</sub>, 4, 1, 0; 2002 QQ<sub>40</sub>, 3, 1, 0; 2002 QC<sub>51</sub>, 3, 1, 0; 2002 QG<sub>53</sub>, 7, 2, 28; 2002 QN<sub>56</sub>, 3, 1, 0; 2002 QG<sub>58</sub>, 8, 2, 10; 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2002 RW<sub>197</sub>, 16, 4, 29; 2002 RD<sub>218</sub>, 4, 1, 0; 2002 RS<sub>245</sub>, 6, 2, 8; 2002 RX<sub>249</sub>, 11, 2, 1; 2002 RZ<sub>250</sub>, 4, 1, 0; 2002 RD<sub>266</sub>, 4, 1, 0; 2002 RK<sub>274</sub>, 11, 3, 10; 2002 RS<sub>274</sub>, 3, 1, 0; 2002 RN<sub>288</sub>, 14, 4, 12; 2002 RU<sub>288</sub>, 4, 2, 1; 2002 RG<sub>289</sub>, 5, 2, 11; 2002 SP<sub>10</sub>, 3, 2; 2002 SL<sub>9</sub>, 13, 4, 502; 2002 SE<sub>12</sub>, 4, 1, 0; 2002 ST<sub>48</sub>, 11, 3, 3; 2002 SF<sub>63</sub>, 3, 1, 0; 2002 TM<sub>7</sub>, 2, 1; 2002 TG<sub>21</sub>, 3, 1, 0; 2002 TH<sub>64</sub>, 3, 1, 0; 2002 TN<sub>64</sub>, 6, 2, 10; 2002 TF<sub>66</sub>, 4, 1, 0; 2002 TD<sub>71</sub>, 4, 1, 0; 2002 TN<sub>85</sub>, 3, 1, 0; 2002 TR<sub>96</sub>, 4, 1, 0; 2002 TY<sub>97</sub>, 8, 2, 1, 0; 2002 TQ<sub>98</sub>, 10, 3, 11; 2002 TL<sub>102</sub>, 7, 2, 3; 2002 TL<sub>123</sub>, 3, 1, 0; 2002 TU<sub>130</sub>, 11, 3, 4; 2002 TK<sub>140</sub>, 12, 3, 11; 2002 TW<sub>141</sub>, 8, 2, 14; 2002 TW<sub>141</sub>, 4, 1, 0; 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32; 2003 SO<sub>8</sub>, 4, 1, 0; 2003 SU<sub>14</sub>, 5, 2, 7; 2003 SE<sub>15</sub>, 4, 1, 0; 2003 SD<sub>29</sub>, 4, 1, 0; 2003 SH<sub>29</sub>, 7, 2, 3; 2003 SK<sub>31</sub>, 4, 1, 0; 2003 SO<sub>32</sub>, 4, 1, 0; 2003 SW<sub>33</sub>, 10, 3, 2; 2003 SE<sub>34</sub>, 16, 4, 9; 2003 ST<sub>37</sub>, 3, 1, 0; 2003 SA<sub>41</sub>, 10, 3, 11; 2003 SA<sub>43</sub>, 13, 4, 13; 2003 SK<sub>48</sub>, 12, 3, 12; 2003 SH<sub>52</sub>, 7, 2, 44; 2003 SP<sub>62</sub>, 11, 3, 17; 2003 SA<sub>66</sub>, 8, 2, 5; 2003 SD<sub>68</sub>, 2, 1, 0; 2003 SB<sub>76</sub>, 4, 1, 0; 2003 SH<sub>79</sub>, 4, 1, 0; 2003 SJ<sub>79</sub>, 4, 1, 0; 2003 SJ<sub>83</sub>, 10, 3, 10; 2003 SU<sub>90</sub>, 8, 2, 2; 2003 SX<sub>90</sub>, 10, 3, 8; 2003 SH<sub>111</sub>, 12, 3, 5; 2003 SN<sub>113</sub>, 8, 2, 1; 2003 SU<sub>117</sub>, 15, 4, 13; 2003 SX<sub>118</sub>, 4, 1, 0; 2003 SS<sub>121</sub>, 8, 2, 1; 2003 SU<sub>121</sub>, 3, 1, 0; 2003 SL<sub>126</sub>, 11, 2, 2; 2003 SL<sub>130</sub>, 16, 4, 13; 2003 SW<sub>131</sub>, 7, 2, 2; 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2003 UF<sub>24</sub>, 4, 1, 0; 2003 UJ<sub>25</sub>, 4, 1, 0; 2003 UP<sub>29</sub>, 12, 3, 11; 2003 UH<sub>33</sub>, 4, 1,



2003 UD<sub>408</sub>, 4, 1, 0; 2003 UD<sub>415</sub>, 4, 1, 0; 2003 VX<sub>4</sub>, 4, 1, 0; 2003 VU<sub>6</sub>, 6, 2, 1; 2003 WY<sub>2</sub>, 4, 1, 0; 2003 WD<sub>4</sub>, 3, 1, 0; 2003 WV<sub>10</sub>, 4, 1, 0; 2003 WM<sub>16</sub>, 2, 1, 0; 2003 WM<sub>27</sub>, 4, 1, 0; 2003 WY<sub>27</sub>, 7, 2, 1; 2003 WH<sub>32</sub>, 4, 1, 0; 2003 WO<sub>39</sub>, 14, 3, 13; 2003 WB<sub>44</sub>, 7, 2, 3; 2003 WW<sub>44</sub>, 16, 4, 13; 2003 WZ<sub>44</sub>, 6, 2, 3; 2003 WO<sub>52</sub>, 4, 1, 0; 2003 WM<sub>54</sub>, 7, 2, 1; 2003 WL<sub>58</sub>, 8, 1, 0; 2003 WP<sub>58</sub>, 4, 1, 0; 2003 WF<sub>60</sub>, 3, 1, 0; 2003 WN<sub>63</sub>, 4, 1, 0; 2003 WT<sub>65</sub>, 3, 1, 0; 2003 WZ<sub>80</sub>, 4, 1, 0; 2003 WA<sub>91</sub>, 3, 1, 0; 2003 WF<sub>92</sub>, 4, 1, 0; 2003 WW<sub>98</sub>, 4, 1, 0; 2003 WT<sub>114</sub>, 14, 3, 13; 2003 WB<sub>116</sub>, 3, 1, 0; 2003 WR<sub>124</sub>, 10, 3, 10; 2003 WH<sub>129</sub>, 3, 1, 0; 2003 WG<sub>132</sub>, 8, 2, 4; 2003 WJ<sub>134</sub>, 3, 1, 0; 2003 WU<sub>146</sub>, 4, 1, 0; 2003 WM<sub>151</sub>, 4, 1, 0; 2003 WN<sub>153</sub>, 3, 1, 0; 2003 WL<sub>156</sub>, 4, 1, 0; 2003 WH<sub>159</sub>, 3, 1, 0; 2003 WB<sub>162</sub>, 3, 1, 0; 2003 WQ<sub>169</sub>, 4, 1, 0; 2003 WH<sub>178</sub>, 3, 1, 0; 2003 WW<sub>180</sub>, 2, 1, 0; 2003 XO<sub>25</sub>, 16, 3, 3; 2003 XQ<sub>27</sub>, 4, 1, 0; 2003 XU<sub>37</sub>, 4, 1, 0; 2003 YJ<sub>11</sub>, 2, 1, 0; 2003 YG<sub>18</sub>, 14, 3, 10; 2003 YY<sub>80</sub>, 3, 1, 0; 2003 YT<sub>93</sub>, 4, 1, 0; 2003 YF<sub>152</sub>, 3, 1, 0; 2003 YC<sub>157</sub>, 3, 1, 0; 2003 YN<sub>166</sub>, 7, 2, 46; 2004 AR<sub>23</sub>, 9, 3, 11; 2004 AL<sub>26</sub>, 3, 1, 0; 2004 BK<sub>13</sub>, 7, 2, 1; 2004 BK<sub>24</sub>, 4, 1, 0; 2004 BR<sub>29</sub>, 10, 3, 12; 2004 BN<sub>48</sub>, 10, 2, 13; 2004 BJ<sub>69</sub>, 4, 1, 0; 2004 BK<sub>73</sub>, 4, 1, 0; 2004 BX<sub>79</sub>, 14, 5, 558; 2004 BC<sub>106</sub>, 3, 1, 0; 2004 BL<sub>115</sub>, 6, 2, 9; 2004 BJ<sub>128</sub>, 3, 1, 0; 2004 BQ<sub>134</sub>, 4, 1, 0; 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2004 EF<sub>96</sub>, 26, 7, 108; 2004 FW<sub>25</sub>, 3, 1, 0; 2004 FX<sub>37</sub>, 3, 1, 0; 2004 FO<sub>48</sub>, 4, 1, 0; 2004 FH<sub>67</sub>, 4, 1, 0; 2004 FF<sub>72</sub>, 2, 1, 0; 2004 FA<sub>76</sub>, 10, 3, 3; 2004 FK<sub>115</sub>, 4, 1, 0; 2004 FL<sub>135</sub>, 3, 1, 0; 2004 FY<sub>141</sub>, 9, 3, 2; 2004 GO<sub>20</sub>, 3, 1, 0; 2004 GH<sub>29</sub>, 4, 1, 0; 2004 GQ<sub>41</sub>, 3, 1, 0; 2004 GA<sub>89</sub>, 12, 3, 5; 2004 HQ<sub>8</sub>, 4, 1, 0; 2004 HS<sub>8</sub>, 6, 2, 11; 2004 HM<sub>26</sub>, 4, 1, 0; 2004 HW<sub>39</sub>, 10, 3, 10; 2004 HZ<sub>52</sub>, 3, 1, 0; 2004 JD<sub>3</sub>, 4, 1, 0; 2004 JU<sub>4</sub>, 4, 1, 0; 2004 JV<sub>13</sub>, 3, 1, 0; 2004 LB<sub>12</sub>, 4, 1, 0; 2004 LJ<sub>28</sub>, 7, 2, 1; 2004 OJ<sub>10</sub>, 3, 10; 2004 PB<sub>8</sub>, 12, 3, 3; 2004 PH<sub>35</sub>, 4, 1, 0; 2004 PT<sub>35</sub>, 8, 2, 2; 2004 PJ<sub>50</sub>, 11, 3, 11; 2004 PF<sub>70</sub>, 4, 1, 0; 2004 PX<sub>75</sub>, 10, 3, 11; 2004 PC<sub>77</sub>, 3, 1, 0; 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8, 2, 2; 2004 VO<sub>78</sub>, 8, 2, 1; 2004 VP<sub>96</sub>, 4, 1, 0; 2004 VG<sub>112</sub>, 4, 1, 0; 2004 WE<sub>10</sub>, 3, 2; 2004 WN<sub>4</sub>, 4, 1, 0; 2004 WA<sub>5</sub>, 6, 2, 1; 2004 XR<sub>4</sub>, 4, 1, 0; 2004 XX<sub>3</sub>, 3, 1, 0; 2004 XF<sub>2</sub>, 4, 1, 0; 2004 XG<sub>2</sub>, 4, 1, 0; 2004 XT<sub>2</sub>, 7, 2, 13; 2004 XR<sub>6</sub>, 8, 1, 0; 2004 XP<sub>11</sub>, 4, 1, 0; 2004 XW<sub>16</sub>, 4, 1, 0; 2004 XU<sub>18</sub>, 7, 2, 1; 2004 XO<sub>26</sub>, 10, 3, 2; 2004 XV<sub>29</sub>, 3, 1, 0; 2004 XP<sub>48</sub>, 4, 1, 0; 2004 XU<sub>51</sub>, 11, 3, 2; 2004 XH<sub>67</sub>, 2, 1, 0; 2004 XF<sub>68</sub>, 6, 1, 0; 2004 XZ<sub>68</sub>, 4, 1, 0; 2004 XK<sub>90</sub>, 7, 2, 1; 2004 XU<sub>90</sub>, 4, 1, 0; 2004 XZ<sub>91</sub>, 4, 1, 0; 2004 XR<sub>92</sub>, 4, 1, 0; 2004 XV<sub>97</sub>, 3, 1, 0; 2004 XF<sub>103</sub>, 12, 3, 7; 2004 XE<sub>104</sub>, 7, 2, 4; 2004 XF<sub>105</sub>, 10, 3, 2; 2004 XR<sub>110</sub>, 7, 2, 1; 2004 XX<sub>116</sub>, 7, 2, 10; 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4, 1, 0; 2005 QY<sub>172</sub>, 22, 6, 66; 2005 QZ<sub>173</sub>, 9, 3, 11; 2005 QR<sub>175</sub>, 3, 1, 0; 2005 QM<sub>177</sub>, 4, 1, 0; 2005 QD<sub>179</sub>, 8, 1, 0; 2005 QE<sub>187</sub>, 3, 1, 0; 2005 QN<sub>187</sub>, 4, 1, 0; 2005 QU<sub>187</sub>, 3, 1, 0; 2005 QT<sub>189</sub>, 3, 1, 0; 2005 RW, 14, 4, 928; 2005 RY<sub>4</sub>, 3, 1, 0; 2005 RG<sub>6</sub>, 6, 2, 112; 2005 RH<sub>9</sub>, 4, 1, 0; 2005 RK<sub>13</sub>, 2, 1, 0; 2005 RB<sub>26</sub>, 12, 3, 14; 2005 RP<sub>26</sub>, 6, 2, 3; 2005 RO<sub>40</sub>, 3, 1, 0; 2005 RA<sub>42</sub>, 8, 2, 1; 2005 RZ<sub>44</sub>, 8, 2, 13; 2005 RA<sub>45</sub>, 4, 1, 0; 2005 RP<sub>46</sub>, 8, 2, 10; 2005 RR<sub>46</sub>, 7, 2, 853; 2005 RU<sub>46</sub>, 10, 2, 10; 2005 RV<sub>46</sub>, 12, 2, 10; 2005 RJ<sub>48</sub>, 11, 3, 13; 2005 RN<sub>51</sub>, 4, 1, 0; 2005 SX<sub>4</sub>, 3, 1, 0; 2005 SF<sub>9</sub>, 4, 1, 0; 2005 SX<sub>9</sub>, 3, 1, 0; 2005 SP<sub>10</sub>, 16, 3, 4; 2005 SH<sub>11</sub>, 7, 2, 1; 2005 SS<sub>11</sub>, 4, 1, 0; 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4, 1, 0; 2007 TT<sub>229</sub>, 4, 1, 0; 2007 TK<sub>230</sub>, 23, 6, 81; 2007 TH<sub>231</sub>, 3, 1, 0; 2007 TU<sub>231</sub>, 8, 2, 3; 2007 TF<sub>232</sub>, 4, 1, 0; 2007 TM<sub>235</sub>, 3, 1, 0; 2007 TZ<sub>235</sub>, 8, 3, 12; 2007 TE<sub>236</sub>, 4, 1, 0; 2007 TO<sub>236</sub>, 18, 5, 34; 2007 TR<sub>238</sub>, 7, 2, 2; 2007 TB<sub>239</sub>, 7, 2, 1; 2007 TK<sub>240</sub>, 8, 2, 3; 2007 TQ<sub>243</sub>, 7, 1, 0; 2007 TQ<sub>245</sub>, 8, 2, 1; 2007 TZ<sub>246</sub>, 9, 3, 9; 2007 TB<sub>247</sub>, 3, 1, 0; 2007 TB<sub>249</sub>, 4, 1, 0; 2007 TM<sub>249</sub>, 3, 1, 0; 2007 TQ<sub>256</sub>, 8, 2, 3; 2007 TM<sub>259</sub>, 3, 1, 0; 2007 TT<sub>260</sub>, 4, 1, 0; 2007 TS<sub>262</sub>, 3, 1, 0; 2007 TH<sub>265</sub>, 10, 3, 47; 2007 TP<sub>266</sub>, 3, 1, 0; 2007 TC<sub>268</sub>, 4, 1, 0; 2007 TN<sub>270</sub>, 16, 3, 36; 2007 TC<sub>271</sub>, 11, 3, 30; 2007 TP<sub>275</sub>, 4, 1, 0; 2007 TB<sub>283</sub>, 8, 2, 1; 2007 TS<sub>283</sub>, 4, 1, 0; 2007 TB<sub>286</sub>, 6, 2, 1; 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2007 VE<sub>51</sub>, 3, 1, 0; 2007 VR<sub>51</sub>, 5, 2, 1; 2007 VS<sub>52</sub>, 12, 2, 1; 2007 VH<sub>53</sub>, 8, 2, 9; 2007 VT<sub>54</sub>, 6, 2, 1; 2007 VA<sub>57</sub>, 3, 1, 0; 2007 VF<sub>58</sub>, 7, 2, 3; 2007 VN<sub>61</sub>, 3, 1, 0; 2007 VJ<sub>62</sub>, 4, 1, 0; 2007 VM<sub>68</sub>, 7, 2, 11; 2007 VO<sub>68</sub>, 3, 1, 0; 2007 VS<sub>73</sub>, 3, 1, 0; 2007 VE<sub>75</sub>, 7, 2, 4; 2007 VP<sub>76</sub>, 8, 2, 10; 2007 VS<sub>81</sub>, 8, 2, 8; 2007 VX<sub>84</sub>, 4, 1, 0; 2007 UJ<sub>85</sub>, 6, 2, 1; 2007 VV<sub>86</sub>, 4, 1, 0; 2007 VC<sub>87</sub>, 6, 2, 969; 2007 VV<sub>90</sub>, 4, 1, 0; 2007 VX<sub>93</sub>, 7, 2, 2; 2007 VA<sub>95</sub>, 12, 3, 5; 2007 VY<sub>100</sub>, 3, 1, 0; 2007 VW<sub>102</sub>, 4, 1, 0; 2007 VK<sub>103</sub>, 8, 2, 7; 2007 VP<sub>103</sub>, 3, 1, 0; 2007 VC<sub>104</sub>, 11, 3, 5; 2007 VN<sub>108</sub>, 15, 4, 513; 2007 VZ<sub>108</sub>, 3, 1, 0; 2007 VF<sub>110</sub>, 3, 1, 0; 2007 VL<sub>115</sub>, 3, 1, 0; 2007 VE<sub>120</sub>, 3, 1, 0; 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2007 VX<sub>157</sub>, 6, 2, 13; 2007 VC<sub>158</sub>, 4, 1, 0; 2007 VR<sub>162</sub>, 3, 1, 0; 2007 VZ<sub>164</sub>, 3, 1, 0; 2007 VL<sub>168</sub>, 4, 1, 0; 2007 VD<sub>176</sub>, 3, 1, 0; 2007 VM<sub>176</sub>, 8, 2, 10; 2007 VP<sub>180</sub>, 4, 1, 0; 2007 VX<sub>180</sub>, 4, 1, 0; 2007 VZ<sub>180</sub>, 8, 2, 2; 2007 VR<sub>192</sub>, 4, 1, 0; 2007 VD<sub>197</sub>, 4, 1, 0; 2007 VO<sub>197</sub>, 4, 1, 0; 2007 VZ<sub>197</sub>, 4, 1, 0; 2007 VD<sub>198</sub>, 9, 3, 2; 2007 VE<sub>198</sub>, 4, 1, 0; 2007 VS<sub>203</sub>, 8, 2, 2; 2007 VM<sub>206</sub>, 8, 2, 5; 2007 VO<sub>210</sub>, 4, 1, 0; 2007 VB<sub>211</sub>, 9, 3, 11; 2007 VQ<sub>211</sub>, 8, 2, 1; 2007 VT<sub>212</sub>, 7, 2, 33; 2007 VZ<sub>212</sub>, 3, 1, 0; 2007 VT<sub>216</sub>, 11, 2, 12; 2007 VW<sub>216</sub>, 8, 3, 452; 2007 VM<sub>222</sub>, 4, 1, 0; 2007 VY<sub>223</sub>, 4, 1, 0; 2007 VM<sub>224</sub>, 8, 2, 5; 2007 VC<sub>225</sub>, 10, 3, 3; 2007 VG<sub>225</sub>, 3, 1, 0; 2007 VL<sub>225</sub>, 26, 6, 46; 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2008 CW<sub>121</sub>, 7, 2, 1; 2008 CK<sub>123</sub>, 4, 1, 0; 2008 CN<sub>123</sub>, 4, 1, 0; 2008 CB<sub>127</sub>, 8, 2, 13; 2008 CX<sub>131</sub>, 7, 2, 2; 2008 CB<sub>133</sub>, 8, 2, 2; 2008 CT<sub>133</sub>, 11, 3, 11; 2008 CC<sub>134</sub>, 4, 1, 0; 2008 CK<sub>135</sub>, 9, 3, 13; 2008 CC<sub>141</sub>, 3, 1, 0; 2008 CY<sub>141</sub>, 8, 2, 1; 2008 CZ<sub>141</sub>, 4, 1, 0; 2008 CL<sub>144</sub>, 10, 1, 0; 2008 CQ<sub>144</sub>, 3, 1, 0; 2008 CY<sub>144</sub>, 4, 1, 0; 2008 CG<sub>145</sub>, 10, 3, 472; 2008 CT<sub>150</sub>, 4, 1, 0; 2008 CX<sub>152</sub>, 7, 2, 2; 2008 CN<sub>154</sub>, 11, 3, 9; 2008 CZ<sub>154</sub>, 5, 2, 3; 2008 CQ<sub>156</sub>, 7, 2, 7; 2008 CG<sub>159</sub>, 3, 1, 0; 2008 CP<sub>162</sub>, 4, 1, 0; 2008 CS<sub>170</sub>, 10, 3, 500; 2008 CV<sub>170</sub>, 8, 2, 5; 2008 CY<sub>170</sub>, 4, 1, 0; 2008 CE<sub>178</sub>, 2, 1, 0; 2008 CJ<sub>179</sub>, 4, 1, 0; 2008 CB<sub>180</sub>, 3, 1, 0; 2008 CV<sub>180</sub>, 4, 1, 0; 2008 CM<sub>186</sub>, 12, 2, 1; 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3, 1, 0; 2008 GZ<sub>136</sub>, 6, 2, 1; 2008 GE<sub>139</sub>, 8, 2, 26; 2008 GB<sub>140</sub>, 3, 1, 0; 2008 GJ<sub>140</sub>, 3, 1, 0; 2008 GA<sub>142</sub>, 7, 2, 1; 2008 GF<sub>142</sub>, 4, 1, 0; 2008 GF<sub>144</sub>, 3, 1, 0; 2008 GU<sub>145</sub>, 3, 1, 0; 2008 GZ<sub>145</sub>, 4, 1, 0; 2008 GG<sub>146</sub>, 5, 1, 0; 2008 GL<sub>146</sub>, 4, 1, 0; 2008 HP<sub>2</sub>, 4, 1, 0; 2008 HU<sub>2</sub>, 10, 3, 8; 2008 HZ<sub>2</sub>, 4, 1, 0; 2008 HQ<sub>4</sub>, 8, 2, 1; 2008 HY<sub>4</sub>, 7, 2, 1; 2008 HZ<sub>7</sub>, 4, 1, 0; 2008 HR<sub>11</sub>, 7, 2, 11; 2008 HE<sub>20</sub>, 4, 1, 0; 2008 HK<sub>22</sub>, 4, 1, 0; 2008 HV<sub>24</sub>, 10, 3, 6; 2008 HB<sub>26</sub>, 6, 2, 1; 2008 HN<sub>27</sub>, 3, 1, 0; 2008 HZ<sub>36</sub>, 3, 1, 0; 2008 HP<sub>40</sub>, 11, 3, 11; 2008 HC<sub>44</sub>, 6, 2, 2; 2008 HV<sub>57</sub>, 4, 1, 0; 2008 HS<sub>59</sub>, 3, 1, 0; 2008 HW<sub>60</sub>, 8, 2, 1; 2008 HU<sub>66</sub>, 8, 2, 2; 2008 HX<sub>66</sub>, 4, 1, 0; 2008 HV<sub>67</sub>, 6, 2, 1; 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2, 5; 2009 BH<sub>25</sub>, 4, 1, 0; 2009 BR<sub>26</sub>, 3, 1, 0; 2009 BO<sub>30</sub>, 7, 2, 2; 2009 BP<sub>31</sub>, 7, 2, 10; 2009 BR<sub>31</sub>, 3, 1, 0; 2009 BY<sub>31</sub>, 3, 1, 0; 2009 BD<sub>35</sub>, 4, 1, 0; 2009 BT<sub>35</sub>, 3, 1, 0; 2009 BZ<sub>36</sub>, 18, 5, 1001; 2009 BH<sub>38</sub>, 4, 1, 0; 2009 BA<sub>40</sub>, 3, 1, 0; 2009 BB<sub>42</sub>, 7, 2, 5; 2009 BW<sub>44</sub>, 3, 1, 0; 2009 BQ<sub>50</sub>, 3, 1, 0; 2009 BO<sub>56</sub>, 3, 1, 0; 2009 BV<sub>57</sub>, 4, 1, 0; 2009 BE<sub>62</sub>, 11, 3, 990; 2009 BQ<sub>63</sub>, 7, 2, 3; 2009 BW<sub>63</sub>, 4, 1, 0; 2009 BO<sub>64</sub>, 3, 1, 0; 2009 BN<sub>66</sub>, 7, 2, 1; 2009 BZ<sub>67</sub>, 11, 3, 979; 2009 BF<sub>69</sub>, 7, 2, 11; 2009 BM<sub>74</sub>, 3, 1, 0; 2009 BM<sub>88</sub>, 10, 3, 13; 2009 BJ<sub>93</sub>, 3, 1, 0; 2009 BL<sub>93</sub>, 4, 1, 0; 2009 BB<sub>96</sub>, 7, 2, 2; 2009 BQ<sub>100</sub>, 4, 1, 0; 2009 BH<sub>102</sub>, 3, 1, 0; 2009 BV<sub>106</sub>, 2, 1, 0; 2009 BE<sub>108</sub>, 4, 1, 0; 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2009 SY<sub>68</sub>, 8, 2, 7; 2009 SA



2009 SV<sub>198</sub>, 6, 2, 3; 2009 SG<sub>199</sub>, 12, 3, 3; 2009 SJ<sub>199</sub>, 3, 1, 0; 2009 SG<sub>200</sub>, 7, 2, 1; 2009 SN<sub>204</sub>, 8, 2, 1305; 2009 SX<sub>204</sub>, 3, 1, 0; 2009 SV<sub>205</sub>, 12, 3, 13; 2009 SM<sub>207</sub>, 3, 1, 0; 2009 SJ<sub>208</sub>, 3, 1, 0; 2009 SN<sub>208</sub>, 8, 3, 12; 2009 SE<sub>209</sub>, 8, 2, 12; 2009 SD<sub>210</sub>, 7, 2, 1; 2009 SX<sub>211</sub>, 7, 2, 1; 2009 SE<sub>213</sub>, 4, 1, 0; 2009 SP<sub>213</sub>, 13, 4, 22; 2009 SL<sub>215</sub>, 6, 1, 0; 2009 SE<sub>216</sub>, 7, 2, 1; 2009 SK<sub>216</sub>, 4, 1, 0; 2009 SN<sub>216</sub>, 6, 2, 7; 2009 SH<sub>217</sub>, 10, 3, 2; 2009 SD<sub>218</sub>, 4, 1, 0; 2009 SD<sub>220</sub>, 12, 3, 11; 2009 SG<sub>220</sub>, 17, 4, 863; 2009 SL<sub>222</sub>, 4, 1, 0; 2009 ST<sub>228</sub>, 3, 1, 0; 2009 SE<sub>230</sub>, 12, 3, 81; 2009 SY<sub>231</sub>, 4, 1, 0; 2009 SH<sub>232</sub>, 3, 1, 0; 2009 ST<sub>234</sub>, 11, 3, 72; 2009 SV<sub>234</sub>, 3, 1, 0; 2009 SR<sub>235</sub>, 8, 2, 6; 2009 SQ<sub>238</sub>, 13, 4, 50; 2009 SJ<sub>240</sub>, 8, 1, 0; 2009 SZ<sub>244</sub>, 4, 1, 0; 2009 SS<sub>249</sub>, 12, 3, 10; 2009 SY<sub>250</sub>, 10, 3, 12; 2009 SO<sub>252</sub>, 8, 1, 0; 2009 SW<sub>253</sub>, 7, 2, 1; 2009 SF<sub>254</sub>, 5, 2, 2; 2009 SG<sub>254</sub>, 8, 2, 1; 2009 SO<sub>254</sub>, 8, 2, 3; 2009 ST<sub>254</sub>, 8, 2, 2; 2009 SG<sub>255</sub>, 8, 2, 19; 2009 SM<sub>259</sub>, 7, 2, 7; 2009 SZ<sub>259</sub>, 7, 2, 2; 2009 SK<sub>261</sub>, 3, 1, 0; 2009 SH<sub>263</sub>, 4, 1, 0; 2009 SF<sub>264</sub>, 2, 1, 0; 2009 SF<sub>268</sub>, 4, 1, 0; 2009 SL<sub>268</sub>, 6, 2, 1; 2009 SY<sub>268</sub>, 3, 1, 0; 2009 SK<sub>269</sub>, 4, 1, 0; 2009 SA<sub>270</sub>, 3, 1, 0; 2009 SE<sub>270</sub>, 11, 3, 13; 2009 SK<sub>270</sub>, 3, 1, 0; 2009 SK<sub>271</sub>, 4, 1, 0; 2009 ST<sub>271</sub>, 7, 2, 1; 2009 SN<sub>273</sub>, 8, 2, 1; 2009 SB<sub>274</sub>, 11, 2, 1; 2009 SB<sub>275</sub>, 3, 1, 0; 2009 SE<sub>276</sub>, 6, 2, 1; 2009 SN<sub>277</sub>, 4, 1, 0; 2009 SX<sub>277</sub>, 3, 1, 0; 2009 SO<sub>278</sub>, 4, 1, 0; 2009 SD<sub>279</sub>, 3, 1, 0; 2009 SD<sub>280</sub>, 4, 1, 0; 2009 SW<sub>280</sub>, 9, 3, 11; 2009 SY<sub>280</sub>, 4, 1, 0; 2009 SG<sub>281</sub>, 9, 3, 5; 2009 SN<sub>282</sub>, 18, 5, 503; 2009 SY<sub>283</sub>, 10, 3, 7; 2009 SK<sub>284</sub>, 8, 2, 1; 2009 SL<sub>284</sub>, 3, 1, 0; 2009 SO<sub>285</sub>, 4, 1, 0; 2009 SF<sub>287</sub>, 4, 1, 0; 2009 SJ<sub>287</sub>, 3, 1, 0; 2009 SK<sub>287</sub>, 8, 2, 1; 2009 SN<sub>287</sub>, 3, 1, 0; 2009 SD<sub>288</sub>, 8, 2, 1; 2009 SJ<sub>288</sub>, 2, 1, 0; 2009 SY<sub>288</sub>, 8, 2, 8; 2009 SZ<sub>288</sub>, 6, 2, 58; 2009 SE<sub>289</sub>, 3, 1, 0; 2009 SR<sub>289</sub>, 6, 2, 1; 2009 SS<sub>289</sub>, 17, 5, 1306; 2009 SS<sub>292</sub>, 8, 2, 1; 2009 SZ<sub>293</sub>, 3, 1, 0; 2009 SE<sub>294</sub>, 4, 1, 0; 2009 SS<sub>294</sub>, 5, 2, 1; 2009 SE<sub>295</sub>, 12, 3, 466; 2009 SE<sub>296</sub>, 4, 1, 0; 2009 SF<sub>297</sub>, 6, 2, 1; 2009 SJ<sub>297</sub>, 11, 3, 5; 2009 SY<sub>297</sub>, 15, 3, 11; 2009 SN<sub>299</sub>, 10, 3, 11; 2009 ST<sub>299</sub>, 3, 1, 0; 2009 SO<sub>300</sub>, 3, 1, 0; 2009 SX<sub>300</sub>, 8, 2, 2; 2009 SC<sub>303</sub>, 4, 1, 0; 2009 SK<sub>303</sub>, 7, 2, 1; 2009 SM<sub>304</sub>, 4, 1, 0; 2009 ST<sub>304</sub>, 8, 2, 1; 2009 SA<sub>307</sub>, 4, 1, 0; 2009 SV<sub>307</sub>, 6, 2, 14; 2009 SC<sub>308</sub>, 2, 1, 0; 2009 SL<sub>308</sub>, 4, 1, 0; 2009 SJ<sub>309</sub>, 4, 1, 0; 2009 SE<sub>317</sub>, 6, 2, 13; 2009 SY<sub>317</sub>, 4, 1, 0; 2009 SB<sub>318</sub>, 2, 1, 0; 2009 SM<sub>319</sub>, 9, 3, 26; 2009 SO<sub>320</sub>, 11, 3, 863; 2009 SL<sub>325</sub>, 12, 3, 64; 2009 ST<sub>325</sub>, 3, 1, 0; 2009 SO<sub>326</sub>, 6, 2, 11; 2009 SW<sub>326</sub>, 3, 1, 0; 2009 SC<sub>327</sub>, 3, 1, 0; 2009 SH<sub>327</sub>, 8, 2, 1; 2009 SP<sub>327</sub>, 6, 2, 1; 2009 SS<sub>327</sub>, 12, 3, 10; 2009 SH<sub>328</sub>, 4, 1, 0; 2009 SS<sub>332</sub>, 6, 2, 1; 2009 SV<sub>332</sub>, 7, 2, 1; 2009 SN<sub>333</sub>, 7, 2, 1; 2009 SO<sub>334</sub>, 4, 1, 0; 2009 SB<sub>339</sub>, 8, 2, 2; 2009 SE<sub>339</sub>, 10, 3, 429; 2009 SM<sub>339</sub>, 7, 1, 0; 2009 SD<sub>340</sub>, 3, 1, 0; 2009 SH<sub>340</sub>, 6, 2, 2; 2009 SO<sub>340</sub>, 7, 2, 11; 2009 SD<sub>341</sub>, 4, 1, 0; 2009 SB<sub>342</sub>, 3, 1, 0; 2009 SC<sub>342</sub>, 7, 2, 13; 2009 SM<sub>342</sub>, 3, 1, 0; 2009 SZ<sub>342</sub>, 11, 3, 12; 2009 SQ<sub>343</sub>, 4, 1, 0; 2009 ST<sub>344</sub>, 2, 1, 0; 2009 SC<sub>345</sub>, 4, 1, 0; 2009 SG<sub>345</sub>, 8, 2, 3; 2009 ST<sub>345</sub>, 2, 1, 0; 2009 SY<sub>346</sub>, 6, 2, 1; 2009 SF<sub>347</sub>, 7, 2, 862; 2009 SX<sub>347</sub>, 3, 1, 0; 2009 SN<sub>349</sub>, 3, 1, 0; 2009 SU<sub>349</sub>, 4, 1, 0; 2009 SL<sub>350</sub>, 3, 1, 0; 2009 SO<sub>350</sub>, 7, 2, 7; 2009 SQ<sub>350</sub>, 4, 1, 0; 2009 SS<sub>350</sub>, 14, 4, 471; 2009 SU<sub>350</sub>, 7, 2, 1; 2009 SY<sub>350</sub>, 11, 3, 7; 2009 SO<sub>352</sub>, 7, 2, 4; 2009 SA<sub>353</sub>, 4, 1, 0; 2009 SS<sub>353</sub>, 7, 2, 2; 2009 SV<sub>353</sub>, 11, 3, 11; 2009 SH<sub>355</sub>, 7, 2, 13; 2009 SU<sub>356</sub>, 3, 1, 0; 2009 SH<sub>357</sub>, 3, 1, 0; 2009 SO<sub>357</sub>, 4, 1, 0; 2009 SO<sub>358</sub>, 7, 2, 2; 2009 SC<sub>360</sub>, 4, 1, 0; 2009 SF<sub>362</sub>, 2, 1, 0; 2009 SJ<sub>362</sub>, 11, 3, 4; 2009 SD<sub>363</sub>, 12, 3, 11; 2009 SH<sub>363</sub>, 6, 2, 9; 2009 SD<sub>364</sub>, 12, 3, 10; 2009 SN<sub>366</sub>, 15, 3, 3; 2009 SQ<sub>366</sub>, 6, 2, 430; 2009 SW<sub>366</sub>, 4, 1, 0; 2009 TD<sub>2</sub>, 11, 3, 3; 2009 TX<sub>3</sub>, 6, 2, 20; 2009 TN<sub>4</sub>, 8, 2, 11; 2009 TU<sub>5</sub>, 4, 1, 0; 2009 TG<sub>6</sub>, 10, 2, 7; 2009 TC<sub>7</sub>, 4, 1, 0; 2009 TJ<sub>7</sub>, 3, 1, 0; 2009 TM<sub>7</sub>, 4, 1, 0; 2009 TX<sub>7</sub>, 4, 1, 0; 2009 TO<sub>10</sub>, 8, 2, 3; 2009 TJ<sub>11</sub>, 7, 2, 1; 2009 TG<sub>12</sub>, 4, 1, 0; 2009 TR<sub>12</sub>, 11, 3, 66; 2009 TE<sub>14</sub>, 4, 1, 0; 2009 TU<sub>17</sub>, 4, 1, 0; 2009 TF<sub>18</sub>, 4, 1, 0; 2009 TJ<sub>19</sub>, 4, 1, 0; 2009 TK<sub>19</sub>, 7, 2, 13; 2009 TP<sub>28</sub>, 10, 2, 1; 2009 TU<sub>29</sub>, 3, 1, 0; 2009 TR<sub>30</sub>, 8, 2, 2; 2009 TK<sub>32</sub>, 7, 2, 2; 2009 TA<sub>34</sub>, 4, 1, 0; 2009 TL<sub>34</sub>, 6, 2, 1; 2009 TB<sub>35</sub>, 3, 1, 0; 2009 TK<sub>35</sub>, 4, 1, 0; 2009 TE<sub>36</sub>, 6, 2, 11; 2009 TW<sub>38</sub>, 7, 1, 0; 2009 TD<sub>39</sub>, 11, 2, 3; 2009 TF<sub>41</sub>, 8, 2, 2; 2009 TL<sub>41</sub>, 4, 1, 0; 2009 TM<sub>42</sub>, 10, 3, 11; 2009 TL<sub>43</sub>, 7, 2, 2; 2009 TW<sub>44</sub>, 3, 1, 0; 2009 TW<sub>45</sub>, 4, 1, 0; 2009 TH<sub>46</sub>, 4, 1, 0; 2009 TX<sub>46</sub>, 8, 2, 857; 2009 TE<sub>47</sub>, 4, 1, 0; 2009 TX<sub>47</sub>, 3, 1, 0; 2009 UH<sub>2</sub>, 4, 1, 0; 2009 UY<sub>4</sub>, 7, 2, 2; 2009 UH<sub>5</sub>, 7, 2, 1; 2009 UP<sub>5</sub>, 3, 1, 0; 2009 UJ<sub>6</sub>, 7, 2, 2; 2009 UP<sub>6</sub>, 6, 2, 1; 2009 UA<sub>7</sub>, 8, 2, 3; 2009 UG<sub>7</sub>, 3, 1, 0; 2009 UY<sub>7</sub>, 3, 1, 0; 2009 UC<sub>8</sub>, 3, 1, 0; 2009 UG<sub>8</sub>, 20, 5, 471; 2009 UR<sub>9</sub>, 4, 1, 0; 2009 UE<sub>12</sub>, 4, 1, 0; 2009 UU<sub>12</sub>, 4, 1, 0; 2009 UM<sub>14</sub>, 17, 5, 83; 2009 UG<sub>15</sub>, 4, 1, 0; 2009 UN<sub>15</sub>, 12, 2, 870; 2009 UQ<sub>18</sub>, 6, 2, 1; 2009 UU<sub>18</sub>, 4, 1, 0; 2009 UT<sub>21</sub>, 3, 1, 0; 2009 UX<sub>21</sub>, 6, 2, 1; 2009 UP<sub>23</sub>, 4, 1, 0; 2009 US<sub>24</sub>, 4, 1, 0; 2009 UM<sub>25</sub>, 2, 1, 0; 2009 UY<sub>25</sub>, 6, 2, 12; 2009 UM<sub>26</sub>, 16, 3, 7; 2009 UT<sub>26</sub>, 9, 3, 15; 2009 UH<sub>27</sub>, 16, 4, 21; 2009 UK<sub>29</sub>, 7, 2, 1; 2009 UN<sub>30</sub>, 5, 2, 1; 2009 UG<sub>32</sub>, 4, 1, 0; 2009 UX<sub>32</sub>, 11, 3, 11; 2009 UQ<sub>34</sub>, 3, 1, 0; 2009 UR<sub>34</sub>, 14, 4, 13; 2009 UH<sub>35</sub>, 4, 1, 0; 2009 UG<sub>36</sub>, 3, 1, 0; 2009 UA<sub>37</sub>, 8, 2, 1; 2009 UH<sub>37</sub>, 7, 2, 5; 2009 UH<sub>43</sub>, 4, 1, 0; 2009 UK<sub>43</sub>, 3, 1, 0; 2009 UD<sub>44</sub>, 3, 1, 0; 2009 UK<sub>44</sub>, 3, 1, 0; 2009 UZ<sub>45</sub>, 6, 2, 5; 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2009 UX<sub>96</sub>, 4, 1, 0; 2009 UP<sub>97</sub>, 4, 1, 0; 2009 UR<sub>97</sub>, 12, 3, 3; 2009 UT<sub>97</sub>, 4, 1, 0; 2009 UF<sub>98</sub>, 4, 1, 0; 2009 US<sub>98</sub>, 11, 1, 0; 2009 UG<sub>99</sub>, 4, 1, 0; 2009 UE<sub>102</sub>, 3, 1, 0; 2009 UG<sub>103</sub>, 2, 1, 0; 2009 UK<sub>105</sub>, 6, 2, 1; 2009 US<sub>105</sub>, 4, 1, 0; 2009 UT<sub>106</sub>, 4, 1, 0; 2009 UU<sub>107</sub>, 24, 5, 427; 2009 UV<sub>107</sub>, 7, 2, 3; 2009 UA<sub>108</sub>, 4, 1, 0; 2009 UV<sub>115</sub>, 7, 2, 13; 2009 UA<sub>117</sub>, 4, 1, 0; 2009 US<sub>117</sub>, 8, 2, 13; 2009 UC<sub>118</sub>, 11, 3, 11; 2009 UH<sub>118</sub>, 4, 1, 0; 2009 UW<sub>118</sub>, 3, 1, 0; 2009 UL<sub>119</sub>, 11, 3, 11; 2009 UN<sub>119</sub>, 4, 1, 0; 2009 UC<sub>120</sub>, 7, 2, 2; 2009 UD<sub>120</sub>, 3, 1, 0; 2009 UA<sub>121</sub>, 4, 1, 0; 2009 UG<sub>122</sub>, 7, 2, 3; 2009 UM<sub>122</sub>, 3, 1, 0; 2009 UA<sub>123</sub>, 3, 1, 0; 2009 UU<sub>123</sub>,

4, 1, 0; 2009 UV<sub>123</sub>, 4, 1, 0; 2009 UM<sub>127</sub>, 18, 4, 60; 2009 UQ<sub>128</sub>, 3, 1, 0; 2009 UX<sub>129</sub>, 4, 1, 0; 2009 UD<sub>130</sub>, 3, 1, 0; 2009 UY<sub>130</sub>, 4, 1, 0; 2009 UG<sub>132</sub>, 10, 1, 0; 2009 UW<sub>136</sub>, 8, 2, 3; 2009 UC<sub>137</sub>, 11, 3, 3; 2009 UF<sub>137</sub>, 2, 1, 0; 2009 UG<sub>140</sub>, 7, 2, 2; 2009 UM<sub>142</sub>, 4, 1, 0; 2009 UU<sub>142</sub>, 8, 1, 0; 2009 UK<sub>143</sub>, 4, 1, 0; 2009 UR<sub>143</sub>, 6, 2, 2; 2009 UK<sub>149</sub>, 4, 1, 0; 2009 UB<sub>150</sub>, 3, 1, 0; 2009 UO<sub>150</sub>, 10, 3, 11; 2009 UY<sub>150</sub>, 3, 1, 0; 2009 UD<sub>153</sub>, 11, 2, 4; 2009 UK<sub>154</sub>, 6, 2, 1; 2009 UU<sub>154</sub>, 4, 1, 0; 2009 VA<sub>2</sub>, 4, 1, 0; 2009 VX<sub>2</sub>, 9, 3, 1250; 2009 VN<sub>5</sub>, 4, 1, 0; 2009 VF<sub>7</sub>, 4, 1, 0; 2009 VY<sub>7</sub>, 3, 1, 0; 2009 VZ<sub>10</sub>, 3, 1, 0; 2009 VW<sub>11</sub>, 4, 1, 0; 2009 VX<sub>11</sub>, 4, 1, 0; 2009 VQ<sub>15</sub>, 6, 2, 1; 2009 VR<sub>17</sub>, 3, 1, 0; 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2009 YB<sub>14</sub>, 4, 1, 0; 2009 YN<sub>22</sub>, 3, 1, 0; 2010 AK<sub>30</sub>



1, 0; 2010 JR<sub>31</sub>, 7, 2, 3; 2010 JJ<sub>34</sub>, 4, 1, 0; 2010 JH<sub>38</sub>, 6, 2, 1; 2010 JW<sub>38</sub>, 4, 1, 0; 2010 JT<sub>45</sub>, 4, 1, 0; 2010 JV<sub>45</sub>, 19, 5, 1003; 2010 JM<sub>47</sub>, 3, 1, 0; 2010 JP<sub>48</sub>, 3, 1, 0; 2010 JF<sub>66</sub>, 11, 3, 10; 2010 JR<sub>71</sub>, 4, 1, 0; 2010 JO<sub>75</sub>, 8, 2, 1; 2010 JF<sub>77</sub>, 6, 2, 1; 2010 JP<sub>83</sub>, 7, 2, 10; 2010 JW<sub>96</sub>, 3, 1, 0; 2010 JY<sub>108</sub>, 7, 2, 9; 2010 JT<sub>111</sub>, 7, 2, 13; 2010 JB<sub>113</sub>, 11, 3, 7; 2010 JC<sub>115</sub>, 8, 2, 3; 2010 JP<sub>118</sub>, 14, 4, 13; 2010 JS<sub>119</sub>, 4, 1, 0; 2010 JE<sub>124</sub>, 7, 2, 17; 2010 JW<sub>130</sub>, 6, 1, 0; 2010 JB<sub>135</sub>, 7, 2, 80; 2010 JS<sub>142</sub>, 7, 2, 24; 2010 JE<sub>148</sub>, 4, 1, 0; 2010 JW<sub>148</sub>, 11, 3, 9; 2010 JT<sub>150</sub>, 4, 1, 0; 2010 JF<sub>152</sub>, 11, 3, 3; 2010 JT<sub>155</sub>, 8, 2, 1; 2010 JZ<sub>167</sub>, 4, 1, 0; 2010 JT<sub>171</sub>, 11, 3, 7; 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8, 3, 2; 2010 TK<sub>146</sub>, 8, 2, 6; 2010 TW<sub>146</sub>, 7, 2, 3; 2010 TX<sub>146</sub>, 4, 1, 0; 2010 TG<sub>147</sub>, 3, 1, 0; 2010 TE<sub>148</sub>, 11, 3, 5; 2010 TC<sub>149</sub>, 4, 1, 0; 2010 TE<sub>149</sub>, 5, 2, 11; 2010 TL<sub>149</sub>, 4, 1, 0; 2010 TB<sub>150</sub>, 4, 1, 0; 2010 TS<sub>152</sub>, 10, 3, 932; 2010 TR<sub>153</sub>, 10, 2, 1; 2010 TG<sub>162</sub>, 4, 1, 0; 2010 TJ<sub>162</sub>, 4, 1, 0; 2010 TM<sub>165</sub>, 10, 3, 10; 2010 TR<sub>165</sub>, 8, 2, 5; 2010 TA<sub>168</sub>, 4, 1, 0; 2010 TU<sub>168</sub>, 6, 2, 3; 2010 TD<sub>169</sub>, 8, 2, 3; 2010 TG<sub>170</sub>, 6, 2, 11; 2010 TO<sub>171</sub>, 7, 2, 2; 2010 TF<sub>173</sub>, 4, 1, 0; 2010 TN<sub>174</sub>, 8, 2, 1; 2010 TX<sub>174</sub>, 6, 2, 5; 2010 TB<sub>179</sub>, 8, 2, 11; 2010 TQ<sub>181</sub>, 4, 1, 0; 2010 TH<sub>182</sub>, 4, 1, 0; 2010 TJ<sub>184</sub>, 4, 1, 0; 2010 TH<sub>185</sub>, 6, 2, 2; 2010 TE<sub>186</sub>, 8, 2, 1; 2010 TT<sub>186</sub>, 8, 2, 2; 2010 TN<sub>187</sub>, 11, 3, 33; 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12; 2011 AY<sub>65</sub>, 4, 1, 0; 2011 AX<sub>67</sub>, 4, 1, 0; 2011 AF<sub>68</sub>, 3, 1, 0; 2011 AG<sub>70</sub>, 3, 1, 0; 2011 AU<sub>70</sub>, 15, 4, 51;  
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3, 54; 2011 SK<sub>107</sub>, 10, 3, 35; 2011 SR<sub>107</sub>, 11, 3, 476; 2011 SB<sub>109</sub>, 7, 2, 12; 2011 SX<sub>112</sub>, 7, 2, 17; 2011 SQ<sub>113</sub>, 3, 1, 0; 2011 SJ<sub>137</sub>, 6, 2, 5; 2011 SN<sub>138</sub>, 3, 1, 0; 2011 SM<sub>139</sub>, 9, 2, 3; 2011 SN<sub>141</sub>, 8, 1, 0; 2011 SK<sub>142</sub>, 4, 1, 0; 2011 SU<sub>142</sub>, 6, 2, 5; 2011 SS<sub>159</sub>, 11, 3, 5; 2011 SU<sub>163</sub>, 6, 2, 1; 2011 SV<sub>163</sub>, 3, 1, 0; 2011 SD<sub>166</sub>, 7, 2, 2; 2011 SM<sub>166</sub>, 4, 1, 0; 2011 SV<sub>166</sub>, 8, 2, 13; 2011 SV<sub>170</sub>, 3, 1, 0; 2011 SP<sub>172</sub>, 6, 2, 5; 2011 SA<sub>175</sub>, 11, 3, 11; 2011 SR<sub>177</sub>, 8, 2, 1; 2011 SK<sub>178</sub>, 3, 1, 0; 2011 SP<sub>178</sub>, 3, 1, 0; 2011 SO<sub>179</sub>, 3, 1, 0; 2011 SG<sub>181</sub>, 3, 1, 0; 2011 SO<sub>181</sub>, 6, 2, 1; 2011 SN<sub>182</sub>, 12, 2, 8; 2011 SY<sub>182</sub>, 7, 2, 2; 2011 SE<sub>184</sub>, 7, 1, 0; 2011 SJ<sub>185</sub>, 8, 2, 1; 2011 SY<sub>185</sub>, 8, 2, 2; 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4, 1, 0; 2012 AJ<sub>4</sub>, 4, 1, 0; 2012 AN<sub>4</sub>, 8, 2, 10; 2012 AU<sub>5</sub>, 7, 2, 8; 2012 AZ<sub>5</sub>, 3, 1, 0; 2012 AG<sub>6</sub>, 3, 1, 0; 2012 AP<sub>6</sub>, 7, 2, 2; 2012 AE<sub>7</sub>, 2, 1, 0; 2012 AJ<sub>8</sub>, 7, 2, 3; 2012 AP<sub>8</sub>, 4, 1, 0; 2012 AY<sub>8</sub>, 4, 1, 0; 2012 AB<sub>9</sub>, 20, 4, 12; 2012 AR<sub>9</sub>, 8, 2, 12; 2012 AZ<sub>9</sub>, 3, 1, 0; 2012 AP<sub>12</sub>, 3, 1, 0; 2012 AH<sub>13</sub>, 11, 3, 3; 2012 AP<sub>13</sub>, 7, 2, 22; 2012 AW<sub>13</sub>, 7, 2, 1; 2012 AE<sub>14</sub>, 4, 1, 0; 2012 AG<sub>14</sub>, 15, 3, 3; 2012 AV<sub>14</sub>, 10, 3, 8; 2012 AG<sub>17</sub>, 3, 1, 0; 2012 AR<sub>17</sub>, 7, 2, 1; 2012 AZ<sub>17</sub>, 2, 1, 0; 2012 AB<sub>18</sub>, 4, 1, 0; 2012 AL<sub>18</sub>, 4, 1, 0; 2012 AU<sub>18</sub>, 3, 1, 0; 2012 AY<sub>18</sub>, 4, 1, 0; 2012 AF<sub>19</sub>, 4, 1, 0; 2012 AU<sub>20</sub>, 3, 1, 0; 2012 AV<sub>20</sub>, 14, 3, 5; 2012 AB<sub>21</sub>, 3, 1, 0; 2012 AR<sub>21</sub>, 7, 2, 11; 2012 AF<sub>22</sub>, 4, 1, 0; 2012 AH<sub>22</sub>, 4, 1, 0; 2012 AU<sub>23</sub>, 12, 2, 10; 2012 AA<sub>24</sub>, 4, 1, 0; 2012 AD<sub>24</sub>, 3, 1, 0; 2012 BO<sub>24</sub>, 4, 1, 0; 2012 BS<sub>7</sub>, 2, 13; 2012 BT<sub>4</sub>, 1, 0; 2012 BE<sub>3</sub>, 7, 2, 12; 2012 BG<sub>3</sub>, 4, 1, 0; 2012 BQ<sub>4</sub>, 6, 1, 0; 2012 BR<sub>4</sub>, 4, 1, 0; 2012 BF<sub>5</sub>, 4, 1, 0; 2012 BS<sub>8</sub>, 7, 2, 10; 2012 BW<sub>8</sub>, 8, 2, 3; 2012 BF<sub>10</sub>, 4, 1, 0; 2012 BW<sub>10</sub>, 8, 2, 1; 2012 BQ<sub>11</sub>, 3, 1, 0; 2012 BV<sub>11</sub>, 4, 1, 0; 2012 BB<sub>12</sub>, 4, 1, 0; 2012 BN<sub>12</sub>, 4, 1, 0; 2012 BW<sub>12</sub>, 7, 2, 1; 2012 BZ<sub>12</sub>, 4, 1, 0; 2012 BG<sub>13</sub>, 4, 2, 1; 2012 BP<sub>14</sub>, 4, 1, 0; 2012 BQ<sub>14</sub>, 4, 1, 0; 2012 BR<sub>15</sub>, 10, 3, 10; 2012 BX<sub>15</sub>, 7, 2, 12; 2012 BA<sub>17</sub>, 4, 1, 0; 2012 BL<sub>17</sub>, 12, 3, 467; 2012 BS<sub>17</sub>, 6, 2, 1; 2012 BW<sub>17</sub>, 4, 1, 0; 2012 BZ<sub>17</sub>, 2, 1, 0; 2012 BG<sub>18</sub>, 3, 1, 0; 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2012 BM<sub>78</sub>, 3, 1, 0; 2012 BN<sub>79</sub>, 12, 3, 7; 2012 BH<sub>81</sub>, 6, 2, 1; 2012 BG<sub>82</sub>, 7, 2, 2; 2012 BO<sub>84</sub>, 13, 4, 474; 2012 BF<sub>85</sub>, 8, 2, 1; 2012 BS<sub>85</sub>, 6, 2, 1; 2012 BQ<sub>86</sub>, 6, 2, 1; 2012 BQ<sub>86</sub>, 21, 6, 59; 2012 BE<sub>87</sub>, 4, 1, 0; 2012 BE<sub>87</sub>, 4, 1, 0; 2012 BF<sub>87</sub>, 4, 1, 0; 2012 BN<sub>87</sub>, 2, 1, 0; 2012 BN<sub>88</sub>, 2, 1, 0; 2012 BO<sub>88</sub>, 3, 1, 0; 2012 BR<sub>88</sub>, 13, 4, 11; 2012 BS<sub>88</sub>, 4, 1, 0; 2012 BJ<sub>89</sub>, 2, 1, 0; 2012 BM<sub>89</sub>, 3, 1, 0; 2012 BG<sub>90</sub>, 3, 1, 0; 2012 BM<sub>90</sub>, 6, 2, 2; 2012 BQ<sub>90</sub>, 9, 3, 1; 2012 BB<sub>91</sub>, 3, 1, 0; 2012 BH<sub>91</sub>, 4, 1, 0; 2012 BM<sub>91</sub>, 4, 1, 0; 2012 BN<sub>91</sub>, 11, 3, 10; 2012 BT<sub>91</sub>, 4, 1, 0; 2012 BD<sub>92</sub>, 8, 2, 3; 2012 BH<sub>93</sub>, 3, 1, 0; 2012 BL<sub>93</sub>, 4, 1, 0; 2012 BM<sub>93</sub>, 6, 1, 0; 2012 BT<sub>93</sub>, 10, 2, 2; 2012 BH<sub>94</sub>, 6, 1, 0; 2012 BM<sub>94</sub>, 3, 1, 0; 2012 BQ<sub>94</sub>, 3, 1, 0; 2012 BG<sub>95</sub>, 4, 1, 0; 2012 BA<sub>96</sub>, 7, 2, 1; 2012 BR<sub>98</sub>, 11, 3, 7; 2012 BM<sub>100</sub>, 4, 1, 0; 2012 BN<sub>100</sub>, 7, 2, 2; 2012 BD<sub>103</sub>, 4, 1, 0; 2012 BE



2; 2012 CA<sub>9</sub>, 8, 2, 3; 2012 CP<sub>9</sub>, 7, 2, 2; 2012 CS<sub>9</sub>, 4, 1, 0; 2012 CZ<sub>9</sub>, 4, 1, 0; 2012 CA<sub>10</sub>, 7, 1, 0; 2012 CB<sub>10</sub>, 10, 3, 7; 2012 CH<sub>10</sub>, 8, 2, 7; 2012 CN<sub>10</sub>, 9, 3, 11; 2012 CO<sub>10</sub>, 4, 1, 0; 2012 CQ<sub>10</sub>, 3, 1, 0; 2012 CH<sub>11</sub>, 7, 2, 9; 2012 CU<sub>11</sub>, 7, 2, 4; 2012 CZ<sub>11</sub>, 4, 1, 0; 2012 CR<sub>12</sub>, 8, 2, 2; 2012 CX<sub>12</sub>, 7, 2, 1; 2012 CA<sub>13</sub>, 3, 1, 0; 2012 CC<sub>13</sub>, 3, 1, 0; 2012 CO<sub>13</sub>, 8, 2, 5; 2012 CM<sub>14</sub>, 4, 1, 0; 2012 CO<sub>14</sub>, 6, 2, 3; 2012 CS<sub>14</sub>, 7, 2, 2; 2012 CF<sub>15</sub>, 3, 1, 0; 2012 CQ<sub>15</sub>, 7, 2, 2; 2012 CV<sub>15</sub>, 4, 1, 0; 2012 CA<sub>16</sub>, 8, 2, 9; 2012 CF<sub>16</sub>, 25, 6, 13; 2012 CJ<sub>16</sub>, 14, 4, 11; 2012 CO<sub>16</sub>, 7, 2, 1; 2012 CV<sub>17</sub>, 8, 2, 1; 2012 CX<sub>18</sub>, 6, 2, 1; 2012 CC<sub>19</sub>, 4, 1, 0; 2012 CX<sub>20</sub>, 4, 1, 0; 2012 CF<sub>21</sub>, 3, 1, 0; 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2012 CN<sub>49</sub>, 3, 1, 0; 2012 CY<sub>49</sub>, 4, 1, 0; 2012 CE<sub>50</sub>, 3, 1, 0; 2012 CL<sub>50</sub>, 19, 5, 27; 2012 CT<sub>50</sub>, 10, 2, 7; 2012 CF<sub>51</sub>, 10, 3, 11; 2012 CJ<sub>51</sub>, 8, 2, 9; 2012 CS<sub>52</sub>, 19, 5, 26; 2012 CY<sub>52</sub>, 6, 2, 3; 2012 CG<sub>53</sub>, 3, 1, 0; 2012 CS<sub>53</sub>, 4, 1, 0; 2012 CF<sub>57</sub>, 4, 1, 0; 2012 DA<sub>7</sub>, 2, 8; 2012 DE<sub>8</sub>, 8, 2, 2; 2012 DF<sub>8</sub>, 3, 1, 0; 2012 DH<sub>8</sub>, 4, 1, 0; 2012 DN<sub>8</sub>, 4, 1, 0; 2012 DG<sub>1</sub>, 8, 2, 13; 2012 DL<sub>3</sub>, 8, 2, 1; 2012 DM<sub>3</sub>, 7, 2, 2; 2012 DQ<sub>3</sub>, 10, 3, 6; 2012 DF<sub>5</sub>, 4, 1, 0; 2012 DJ<sub>5</sub>, 7, 2, 1; 2012 DT<sub>5</sub>, 4, 1, 0; 2012 DD<sub>6</sub>, 4, 1, 0; 2012 DF<sub>6</sub>, 4, 1, 0; 2012 DL<sub>6</sub>, 3, 1, 0; 2012 DM<sub>6</sub>, 6, 2, 1; 2012 DU<sub>6</sub>, 4, 1, 0; 2012 DC<sub>8</sub>, 7, 2, 3; 2012 DC<sub>9</sub>, 12, 3, 13; 2012 DQ<sub>9</sub>, 4, 1, 0; 2012 DY<sub>9</sub>, 3, 1, 0; 2012 DB<sub>10</sub>, 4, 1, 0; 2012 DT<sub>10</sub>, 7, 2, 9; 2012 DY<sub>10</sub>, 7, 2, 1; 2012 DD<sub>10</sub>, 4, 1, 0; 2012 DY<sub>11</sub>, 3, 1, 0; 2012 DD<sub>12</sub>, 4, 1, 0; 2012 DM<sub>12</sub>, 3, 1, 0; 2012 DN<sub>12</sub>, 11, 3, 12; 2012 DB<sub>14</sub>, 4, 1, 0; 2012 DY<sub>14</sub>, 3, 1, 0; 2012 DF<sub>15</sub>, 4, 1, 0; 2012 DY<sub>15</sub>, 10, 3, 11; 2012 DB<sub>16</sub>, 8, 2, 1; 2012 DJ<sub>17</sub>, 6, 2, 13; 2012 DP<sub>17</sub>, 8, 2, 2; 2012 DA<sub>18</sub>, 6, 2, 1; 2012 DQ<sub>18</sub>, 4, 1, 0; 2012 DP<sub>19</sub>, 4, 1, 0; 2012 DA<sub>20</sub>, 3, 1, 0; 2012 DE<sub>20</sub>, 2, 1, 0; 2012 DS<sub>20</sub>, 3, 1, 0; 2012 DA<sub>21</sub>, 10, 3, 10; 2012 DH<sub>21</sub>, 7, 2, 2; 2012 DR<sub>21</sub>, 3, 1, 0; 2012 DN<sub>22</sub>, 3, 1, 0; 2012 DO<sub>22</sub>, 8, 2, 7; 2012 DV<sub>23</sub>, 4, 1, 0; 2012 DX<sub>23</sub>, 7, 2, 1; 2012 DZ<sub>23</sub>, 14, 4, 430; 2012 DB<sub>24</sub>, 3, 1, 0; 2012 DH<sub>24</sub>, 12, 2, 2; 2012 DA<sub>25</sub>, 4, 1, 0; 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2012 DZ<sub>70</sub>, 7, 2, 1; 2012 DU<sub>71</sub>, 4, 1, 0; 2012 DB<sub>72</sub>, 4, 1, 0; 2012 DS<sub>72</sub>, 4, 1, 0; 2012 DW<sub>72</sub>, 4, 1, 0; 2012 DZ<sub>72</sub>, 8, 2, 2; 2012 DD<sub>73</sub>, 3, 1, 0; 2012 DA<sub>74</sub>, 3, 1, 0; 2012 DV<sub>74</sub>, 3, 1, 0; 2012 DW<sub>74</sub>, 8, 2, 3; 2012 DZ<sub>74</sub>, 2, 1, 0; 2012 DA<sub>75</sub>, 11, 3, 3; 2012 DC<sub>75</sub>, 7, 2, 415; 2012 DK<sub>75</sub>, 6, 2, 13; 2012 DO<sub>75</sub>, 7, 2, 2; 2012 DO<sub>76</sub>, 4, 1, 0; 2012 DX<sub>76</sub>, 3, 1, 0; 2012 DZ<sub>76</sub>, 6, 2, 1; 2012 DH<sub>77</sub>, 4, 1, 0; 2012 DR<sub>77</sub>, 5, 2, 3; 2012 DX<sub>77</sub>, 4, 1, 0; 2012 DG<sub>78</sub>, 2, 1, 0; 2012 DK<sub>78</sub>, 3, 1, 0; 2012 DQ<sub>78</sub>, 4, 1, 0; 2012 DS<sub>78</sub>, 9, 3, 3; 2012 DL<sub>79</sub>, 2, 1, 0; 2012 DW<sub>79</sub>, 3, 1, 0; 2012 DZ<sub>79</sub>, 15, 3, 390; 2012 DK<sub>80</sub>, 7, 2, 13; 2012 DP<sub>82</sub>, 4, 1, 0; 2012 DJ<sub>83</sub>, 8, 2, 2; 2012 DL<sub>83</sub>, 4, 1, 0; 2012 DF<sub>84</sub>, 11, 3, 434; 2012 DS<sub>84</sub>, 19, 5, 442; 2012 DO<sub>86</sub>, 3, 1, 0; 2012 DY<sub>86</sub>, 8, 2, 6; 2012 DF<sub>87</sub>, 3, 1, 0; 2012 DH<sub>87</sub>, 6, 2, 1; 2012 DU<sub>87</sub>, 12, 3, 3; 2012 DR<sub>88</sub>, 10, 3, 81; 2012 DU<sub>88</sub>, 6, 2, 3; 2012 DX<sub>88</sub>, 4, 1, 0; 2012 DL<sub>90</sub>, 15, 4, 48; 2012 DT<sub>90</sub>, 7, 2, 13; 2012 DZ<sub>90</sub>, 3, 1, 0; 2012 DK<sub>92</sub>, 4, 1, 0; 2012 DQ<sub>92</sub>, 3, 1, 0; 2012 DS<sub>92</sub>, 7, 2, 1; 2012 DX<sub>92</sub>, 3, 1, 0; 2012 DR<sub>93</sub>, 8, 2, 11; 2012 DC<sub>94</sub>, 4, 1, 0; 2012 DG<sub>94</sub>, 12, 2, 1; 2012 DH<sub>94</sub>, 4, 1, 0; 2012 DO<sub>94</sub>, 6, 2, 7; 2012 DW<sub>95</sub>, 8, 2, 3; 2012 DD<sub>96</sub>, 11, 2, 2; 2012 DY<sub>96</sub>, 9, 3, 3; 2012 DB<sub>97</sub>, 3, 1, 0; 2012 DH<sub>97</sub>, 8, 2, 10; 2012 DQ<sub>97</sub>, 3, 1, 0; 2012 DR<sub>97</sub>, 7, 2, 7; 2012 DU<sub>97</sub>, 16, 4, 15; 2012 ES<sub>7</sub>, 1, 0; 2012 EY<sub>4</sub>, 4, 1, 0; 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1, 0; 2012 EM<sub>2</sub>, 4, 1, 0; 2012 EN<sub>2</sub>, 15, 4, 435; 2012 EO<sub>2</sub>, 3, 1, 0; 2012 ET<sub>2</sub>, 3, 1, 0; 2012 EW<sub>2</sub>, 3, 1, 0; 2012 EA<sub>3</sub>, 13, 4, 13; 2012 EV<sub>3</sub>, 4, 1, 0; 2012 EB<sub>4</sub>, 3, 1, 0; 2012 EG<sub>4</sub>, 3, 1, 0; 2012 ER<sub>4</sub>, 4, 1, 0; 2012 EW<sub>4</sub>, 10, 2, 7; 2012 EX<sub>4</sub>, 3, 1, 0; 2012 EZ<sub>4</sub>, 4, 1, 0; 2012 EQ<sub>5</sub>, 3, 1, 0; 2012 ES<sub>5</sub>, 13, 4, 11; 2012 EH<sub>6</sub>, 3, 1, 0; 2012 ED<sub>7</sub>, 8, 2, 1; 2012 EE<sub>7</sub>, 2, 1, 0; 2012 EG<sub>7</sub>, 4, 1, 0; 2012 EQ<sub>7</sub>, 7, 2, 2; 2012 EN<sub>8</sub>, 12, 3, 3; 2012 EG<sub>9</sub>, 4, 1, 0; 2012 EM<sub>10</sub>, 8, 2, 1; 2012 EG<sub>11</sub>, 7, 2, 1; 2012 EM<sub>11</sub>, 3, 1, 0; 2012 EW<sub>12</sub>, 11, 3, 3; 2012 EB<sub>13</sub>, 4, 1, 0; 2012 EO<sub>15</sub>, 7, 2, 5; 2012 EY<sub>15</sub>, 3, 1, 0; 2012 EU<sub>16</sub>, 4, 1, 0; 2012 EA<sub>17</sub>, 12, 3, 25; 2012 EE<sub>17</sub>, 8, 2, 5; 2012 EJ<sub>17</sub>, 3, 1, 0; 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2012 HV<sub>5</sub>, 4, 1, 0; 2012 HB<sub>6</sub>, 4, 1, 0; 2012 HK<sub>7</sub>, 4, 1, 0; 2012 HB<sub>9</sub>, 4,



1, 0; 2013 XD<sub>50</sub>, 8, 2, 1; 2012 XA<sub>53</sub>, 21, 6, 81; 2012 XN<sub>53</sub>, 34, 9, 104; 2012 XH<sub>104</sub>, 21, 6, 113; 2012 XD<sub>111</sub>, 3, 1, 0; 2012 XB<sub>116</sub>, 4, 1, 0; 2012 XZ<sub>119</sub>, 6, 2, 6; 2012 YC, 12, 3, 23; 2012 YU<sub>1</sub>, 12, 3, 62; 2012 YA<sub>6</sub>, 2, 1, 0; 2012 YQ<sub>6</sub>, 11, 3, 3; 2012 YS<sub>7</sub>, 8, 2, 5; 2012 YX<sub>7</sub>, 11, 3, 13; 2012 YH<sub>8</sub>, 6, 2, 1; 2013 AW<sub>7</sub>, 2, 5; 2013 AX<sub>12</sub>, 3, 72; 2013 AO<sub>6</sub>, 4, 1, 0; 2013 AG<sub>7</sub>, 4, 1, 0; 2013 AY<sub>12</sub>, 7, 2, 18; 2013 AC<sub>17</sub>, 4, 1, 0; 2013 AQ<sub>17</sub>, 8, 2, 26; 2013 AW<sub>18</sub>, 6, 2, 1; 2013 AW<sub>20</sub>, 9, 3, 46; 2013 AC<sub>21</sub>, 12, 4, 66; 2013 AH<sub>21</sub>, 3, 1, 0; 2013 AQ<sub>21</sub>, 10, 3, 54; 2013 AP<sub>25</sub>, 7, 2, 1; 2013 AH<sub>26</sub>, 3, 1, 0; 2013 AN<sub>27</sub>, 4, 1, 0; 2013 AZ<sub>29</sub>, 4, 1, 0; 2013 AX<sub>31</sub>, 10, 3, 5; 2013 AX<sub>35</sub>, 10, 3, 40; 2013 AU<sub>43</sub>, 4, 1, 0; 2013 AR<sub>44</sub>, 10, 3, 12; 2013 AM<sub>45</sub>, 4, 1, 0; 2013 AJ<sub>50</sub>, 7, 2, 1; 2013 AM<sub>50</sub>, 10, 3, 6; 2013 AQ<sub>50</sub>, 19, 6, 84; 2013 AX<sub>50</sub>, 3, 1, 0; 2013 AO<sub>55</sub>, 12, 3, 5; 2013 AF<sub>56</sub>, 7, 2, 9; 2013 AY<sub>64</sub>, 4, 1, 0; 2013 AA<sub>65</sub>, 12, 3, 26; 2013 AH<sub>68</sub>, 14, 3, 977; 2013 AK<sub>68</sub>, 11, 3, 7; 2013 AO<sub>68</sub>, 4, 1, 0; 2013 AV<sub>70</sub>, 2, 1, 0; 2013 AM<sub>71</sub>, 7, 2, 10; 2013 AZ<sub>72</sub>, 7, 2, 1; 2013 AM<sub>82</sub>, 4, 1, 0; 2013 AS<sub>83</sub>, 7, 2, 1; 2013 AN<sub>89</sub>, 11, 2, 1; 2013 AC<sub>90</sub>, 4, 1, 0; 2013 AZ<sub>93</sub>, 7, 2, 4; 2013 AJ<sub>94</sub>, 12, 4, 54; 2013 AS<sub>96</sub>, 14, 4, 51; 2013 AU<sub>96</sub>, 6, 2, 43; 2013 AW<sub>96</sub>, 9, 3, 48; 2013 AD<sub>100</sub>, 7, 2, 1; 2013 AW<sub>101</sub>, 10, 3, 13; 2013 AH<sub>104</sub>, 4, 1, 0; 2013 AV<sub>104</sub>, 8, 2, 1; 2013 AD<sub>105</sub>, 8, 2, 9; 2013 AL<sub>105</sub>, 11, 3, 12; 2013 AL<sub>112</sub>, 4, 1, 0; 2013 AY<sub>112</sub>, 3, 1, 0; 2013 AZ<sub>115</sub>, 11, 3, 29; 2013 AO<sub>116</sub>, 12, 3, 950; 2013 AU<sub>116</sub>, 5, 2, 6; 2013 AW<sub>120</sub>, 7, 2, 1; 2013 AP<sub>121</sub>, 3, 1, 0; 2013 AZ<sub>121</sub>, 12, 3, 11; 2013 AV<sub>123</sub>, 3, 1, 0; 2013 AG<sub>125</sub>, 4, 1, 0; 2013 AF<sub>126</sub>, 7, 2, 1; 2013 AB<sub>132</sub>, 3, 1, 0; 2013 AU<sub>133</sub>, 8, 2, 1; 2013 AW<sub>133</sub>, 10, 3, 9; 2013 AY<sub>143</sub>, 4, 1, 0; 2013 AC<sub>150</sub>, 7, 2, 1; 2013 AN<sub>150</sub>, 8, 2, 1036; 2013 AG<sub>163</sub>, 12, 3, 53; 2013 AW<sub>163</sub>, 10, 3, 944; 2013 AM<sub>168</sub>, 23, 6, 83; 2013 AJ<sub>180</sub>, 3, 1, 0; 2013 BA<sub>180</sub>, 42, 9, 79; 2013 BS<sub>10</sub>, 7, 2, 4; 2013 BA<sub>13</sub>, 7, 2, 11; 2013 BY<sub>13</sub>, 14, 3, 87; 2013 BE<sub>16</sub>, 3, 1, 0; 2013 BH<sub>16</sub>, 3, 1, 0; 2013 BQ<sub>20</sub>, 4, 1, 0; 2013 BB<sub>23</sub>, 3, 1, 0; 2013 BH<sub>26</sub>, 19, 3, 11; 2013 BX<sub>26</sub>, 10, 3, 11; 2013 BS<sub>27</sub>, 4, 1, 0; 2013 BZ<sub>28</sub>, 3, 1, 0; 2013 BW<sub>29</sub>, 11, 3, 949; 2013 BF<sub>32</sub>, 6, 1, 0; 2013 BF<sub>35</sub>, 17, 5, 11; 2013 BV<sub>37</sub>, 12, 3, 11; 2013 BJ<sub>39</sub>, 4, 1, 0; 2013 BR<sub>39</sub>, 12, 3, 11; 2013 BK<sub>42</sub>, 3, 1, 0; 2013 BO<sub>43</sub>, 19, 5, 33; 2013 BV<sub>44</sub>, 4, 1, 0; 2013 BJ<sub>45</sub>, 3, 1, 0; 2013 BK<sub>45</sub>, 4, 1, 0; 2013 BL<sub>45</sub>, 9, 3, 2; 2013 BC<sub>59</sub>, 7, 2, 2; 2013 BK<sub>60</sub>, 6, 2, 2; 2013 BX<sub>62</sub>, 6, 2, 10; 2013 BU<sub>65</sub>, 11, 3, 18; 2013 BT<sub>70</sub>, 8, 2, 2; 2013 BF<sub>72</sub>, 4, 1, 0; 2013 BL<sub>76</sub>, 4, 1, 0; 2013 BN<sub>77</sub>, 8, 2, 13; 2013 BA<sub>78</sub>, 4, 1, 0; 2013 BO<sub>79</sub>, 7, 2, 9; 2013 BA<sub>80</sub>, 7, 2, 16; 2013 CA<sub>4</sub>, 1, 0; 2013 CO<sub>1</sub>, 8, 2, 21; 2013 CL<sub>5</sub>, 3, 1, 0; 2013 CQ<sub>6</sub>, 11, 3, 11; 2013 CG<sub>8</sub>, 28, 7, 83; 2013 CK<sub>8</sub>, 6, 2, 1; 2013 CA<sub>9</sub>, 7, 2, 42; 2013 CT<sub>11</sub>, 14, 4, 23; 2013 CN<sub>12</sub>, 18, 5, 65; 2013 CT<sub>12</sub>, 4, 1, 0; 2013 CC<sub>13</sub>, 8, 2, 1; 2013 CA<sub>14</sub>, 14, 4, 12; 2013 CO<sub>15</sub>, 13, 4, 32; 2013 CO<sub>16</sub>, 3, 1, 0; 2013 CQ<sub>16</sub>, 14, 4, 13; 2013 CR<sub>16</sub>, 7, 2, 29; 2013 CR<sub>17</sub>, 7, 2, 2; 2013 CY<sub>17</sub>, 4, 1, 0; 2013 CA<sub>18</sub>, 6, 2, 13; 2013 CF<sub>18</sub>, 4, 1, 0; 2013 CR<sub>19</sub>, 7, 2, 2; 2013 CD<sub>22</sub>, 12, 3, 3; 2013 CH<sub>22</sub>, 3, 1, 0; 2013 CK<sub>23</sub>, 11, 3, 3; 2013 CD<sub>24</sub>, 7, 2, 10; 2013 CO<sub>24</sub>, 6, 2, 2; 2013 CA<sub>26</sub>, 25, 6, 59; 2013 CE<sub>26</sub>, 18, 5, 1013; 2013 CG<sub>30</sub>, 4, 1, 0; 2013 CQ<sub>30</sub>, 15, 2, 1; 2013 CN<sub>31</sub>, 6, 2, 1; 2013 CF<sub>32</sub>, 10, 3, 9; 2013 CS<sub>32</sub>, 8, 2, 1; 2013 CM<sub>33</sub>, 7, 1, 0; 2013 CR<sub>33</sub>, 7, 2, 12; 2013 CT<sub>35</sub>, 6, 2, 2; 2013 CX<sub>35</sub>, 10, 3, 11; 2013 CF<sub>36</sub>, 7, 2, 1; 2013 CS<sub>36</sub>, 4, 1, 0; 2013 CS<sub>40</sub>, 11, 2, 11; 2013 CH<sub>43</sub>, 7, 2, 8; 2013 CL<sub>43</sub>, 6, 2, 9; 2013 CN<sub>45</sub>, 7, 2, 13; 2013 CT<sub>45</sub>, 4, 1, 0; 2013 CZ<sub>45</sub>, 24, 7, 59; 2013 CC<sub>46</sub>, 11, 3, 40; 2013 CK<sub>47</sub>, 3, 1, 0; 2013 CP<sub>47</sub>, 10, 3, 20; 2013 CG<sub>48</sub>, 3, 1, 0; 2013 CH<sub>48</sub>, 15, 4, 13; 2013 CM<sub>48</sub>, 7, 2, 1; 2013 CL<sub>49</sub>, 4, 1, 0; 2013 CZ<sub>51</sub>, 9, 3, 11; 2013 CC<sub>53</sub>, 6, 1, 0; 2013 CT<sub>53</sub>, 4, 1, 0; 2013 CW<sub>53</sub>, 14, 3, 12; 2013 CS<sub>54</sub>, 13, 4, 50; 2013 CW<sub>54</sub>, 10, 3, 5; 2013 CD<sub>56</sub>, 7, 2, 18; 2013 CK<sub>56</sub>, 6, 2, 1; 2013 CT<sub>56</sub>, 11, 3, 12; 2013 CT<sub>57</sub>, 3, 1, 0; 2013 CJ<sub>59</sub>, 4, 1, 0; 2013 CM<sub>59</sub>, 14, 4, 33; 2013 CF<sub>60</sub>, 6, 2, 952; 2013 CH<sub>61</sub>, 11, 3, 3; 2013 CY<sub>61</sub>, 7, 2, 9; 2013 CB<sub>62</sub>, 10, 3, 947; 2013 CC<sub>62</sub>, 8, 2, 27; 2013 CR<sub>62</sub>, 4, 1, 0; 2013 CZ<sub>63</sub>, 4, 1, 0; 2013 CH<sub>64</sub>, 7, 2, 10; 2013 CU<sub>64</sub>, 4, 1, 0; 2013 CA<sub>65</sub>, 3, 1, 0; 2013 CS<sub>65</sub>, 8, 2, 11; 2013 CL<sub>66</sub>, 3, 1, 0; 2013 CT<sub>66</sub>, 7, 2, 1; 2013 CA<sub>67</sub>, 7, 2, 4; 2013 CB<sub>67</sub>, 11, 3, 5; 2013 CS<sub>67</sub>, 6, 2, 4; 2013 CM<sub>67</sub>, 10, 3, 14; 2013 CQ<sub>67</sub>, 7, 2, 1; 2013 CB<sub>68</sub>, 20, 6, 77; 2013 CU<sub>68</sub>, 3, 1, 0; 2013 CM<sub>69</sub>, 7, 2, 1; 2013 CU<sub>70</sub>, 10, 3, 7; 2013 CY<sub>70</sub>, 3, 1, 0; 2013 CM<sub>71</sub>, 7, 2, 22; 2013 CX<sub>71</sub>, 3, 1, 0; 2013 CF<sub>75</sub>, 7, 2, 12; 2013 CL<sub>75</sub>, 15, 4, 7; 2013 CN<sub>75</sub>, 8, 2, 2; 2013 CS<sub>75</sub>, 10, 3, 9; 2013 CA<sub>76</sub>, 3, 1, 0; 2013 CP<sub>76</sub>, 2, 1, 0; 2013 CK<sub>79</sub>, 8, 2, 12; 2013 CO<sub>79</sub>, 7, 2, 27; 2013 CF<sub>80</sub>, 8, 2, 1; 2013 CO<sub>80</sub>, 3, 1, 0; 2013 CW<sub>80</sub>, 12, 3, 5; 2013 CJ<sub>82</sub>, 8, 2, 41; 2013 CK<sub>82</sub>, 3, 1, 0; 2013 CN<sub>82</sub>, 11, 3, 13; 2013 CZ<sub>82</sub>, 6, 2, 1; 2013 CE<sub>84</sub>, 3, 1, 0; 2013 CH<sub>84</sub>, 3, 1, 0; 2013 CK<sub>84</sub>, 6, 2, 3; 2013 CY<sub>84</sub>, 7, 2, 20; 2013 CZ<sub>85</sub>, 2, 1, 0; 2013 CX<sub>86</sub>, 8, 2, 12; 2013 CF<sub>87</sub>, 11, 3, 11; 2013 CM<sub>88</sub>, 23, 7, 1132; 2013 CM<sub>89</sub>, 7, 2, 8; 2013 CV<sub>89</sub>, 22, 6, 1053; 2013 CO<sub>92</sub>, 4, 1, 0; 2013 CQ<sub>96</sub>, 7, 2, 12; 2013 CU<sub>97</sub>, 17, 4, 13; 2013 CX<sub>97</sub>, 10, 3, 12; 2013 CM<sub>98</sub>, 10, 3, 7; 2013 CM<sub>99</sub>, 6, 2, 1; 2013 CE<sub>101</sub>, 5, 2, 1; 2013 CQ<sub>102</sub>, 3, 1, 0; 2013 CA<sub>103</sub>, 3, 1, 0; 2013 CF<sub>106</sub>, 22, 5, 12; 2013 CM<sub>107</sub>, 7, 2, 7; 2013 CZ<sub>107</sub>, 8, 1, 0; 2013 CC<sub>108</sub>, 3, 1, 0; 2013 CF<sub>108</sub>, 4, 1, 0; 2013 CL<sub>109</sub>, 3, 1, 0; 2013 CZ<sub>109</sub>, 3, 1, 0; 2013 CV<sub>110</sub>, 4, 1, 0; 2013 CW<sub>110</sub>, 4, 1, 0; 2013 CA<sub>112</sub>, 12, 4, 1071; 2013 CB<sub>114</sub>, 4, 1, 0; 2013 CM<sub>115</sub>, 7, 2, 7; 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2013 CT<sub>173</sub>, 2, 1, 0; 2013 CE<sub>174</sub>, 3, 1, 0; 2013 CK<sub>174</sub>, 7, 2, 1; 2013 CV<sub>174</sub>, 14, 4, 44; 2013 CG<sub>175</sub>, 16, 5, 999; 2013 CR<sub>175</sub>, 6, 2, 5; 2013 CD<sub>176</sub>, 28, 7, 53; 2013 CB<sub>177</sub>, 8, 2, 1; 2013 CF<sub>179</sub>, 11, 3, 12; 2013 CJ<sub>181</sub>, 23, 5, 54; 2013 CL<sub>181</sub>, 7, 2, 7; 2013 CP<sub>181</sub>, 7, 2, 1; 2013 CK<sub>182</sub>, 3, 1, 0; 2013 CP<sub>182</sub>, 10, 3, 49; 2013 CD<sub>183</sub>, 3, 1, 0; 2013 CV<sub>183</sub>, 4, 1, 0; 2013 CU<sub>184</sub>, 7, 2, 7; 2013 CX<sub>185</sub>, 4, 1, 0; 2013 CK<sub>186</sub>, 6, 2, 1; 2013 CR<sub>188</sub>, 7, 2, 8; 2013 CA<sub>190</sub>, 24, 7, 67; 2013 CW<sub>190</sub>, 6, 2, 1; 2013 CK<sub>191</sub>, 4, 1, 0; 2013 CS<sub>191</sub>, 3, 1, 0; 2013 CT<sub>191</sub>, 4, 1, 0; 2013 CA<sub>192</sub>, 4, 1, 0; 2013 CC<sub>198</sub>, 3, 1, 0; 2013 CU<sub>198</sub>, 4, 1, 0; 2013 CA<sub>199</sub>, 12, 3, 11; 2013 CR<sub>200</sub>, 10, 3, 29; 2013 CP<sub>201</sub>, 8, 2, 5; 2013 CF<sub>202</sub>, 4, 1, 0; 2013 CM<sub>205</sub>, 7, 2, 20; 2013 CH<sub>207</sub>, 4, 1, 0; 2013 CU<sub>207</sub>, 11, 3, 27; 2013 CA<sub>209</sub>, 17, 5, 54; 2013 CV<sub>211</sub>, 6, 2, 10; 2013 CZ<sub>212</sub>, 9, 2, 1; 2013 CC<sub>213</sub>, 4, 1, 0; 2013 CJ<sub>214</sub>, 7, 2, 8; 2013 CR<sub>214</sub>, 8, 2, 1; 2013 CX<sub>214</sub>, 11, 3, 51; 2013 CM<sub>218</sub>, 11, 2, 2; 2013 CX<sub>221</sub>, 3, 1, 0; 2013 DK<sub>1</sub>, 3, 1, 0; 2013 DB<sub>2</sub>, 7, 2, 1; 2013 DE<sub>2</sub>, 3, 1, 0; 2013 DJ<sub>2</sub>, 6, 2, 12; 2013 DW<sub>2</sub>, 3, 1, 0; 2013 DZ<sub>2</sub>, 11, 3, 5; 2013 DH<sub>4</sub>, 3, 1, 0; 2013 DE<sub>5</sub>, 7, 2, 1; 2013 DX<sub>5</sub>, 6, 2, 1; 2013 DG<sub>7</sub>, 4, 1, 0; 2013 DL<sub>9</sub>, 11, 3, 12; 2013 DT<sub>9</sub>, 4, 1, 0; 2013 DR<sub>10</sub>, 8, 2, 8; 2013 DA<sub>11</sub>, 3, 1, 0; 2013 DR<sub>11</sub>, 8, 2, 2; 2013 DW<sub>11</sub>, 7, 1, 0; 2013 DC<sub>13</sub>, 4, 1, 0; 2013 DD<sub>13</sub>, 19, 5, 947; 2013 DR<sub>13</sub>, 4, 1, 0; 2013 DH<sub>16</sub>, 13, 3, 54; 2013 DJ<sub>16</sub>, 4, 1, 0; 2013 ED<sub>3</sub>, 3, 1, 0; 2013 EV<sub>4</sub>, 1, 0; 2013 EA<sub>1</sub>, 3, 1, 0; 2013 EU<sub>1</sub>, 8, 2, 1; 2013 EY<sub>2</sub>, 8, 2, 10; 2013 EG<sub>4</sub>, 7, 2, 27; 2013 EK<sub>4</sub>, 8, 2, 2; 2013 EL<sub>4</sub>, 3, 1, 0; 2013 ED<sub>5</sub>, 4, 1, 0; 2013 EF<sub>6</sub>, 4, 1, 0; 2013 EL<sub>6</sub>, 4, 1, 0; 2013 EM<sub>8</sub>, 7, 2, 1; 2013 EP<sub>8</sub>, 6, 2, 1; 2013 ER<sub>8</sub>, 8, 2, 7; 2013 EA<sub>9</sub>, 14, 4, 11; 2013 ED<sub>10</sub>, 4, 1, 0; 2013 EU<sub>10</sub>, 7, 2, 1; 2013 ED<sub>11</sub>, 8, 2, 1; 2013 EU<sub>11</sub>, 8, 2, 10; 2013 ED<sub>12</sub>, 4, 1, 0; 2013 EG<sub>13</sub>, 14, 3, 3; 2013 EH<sub>13</sub>, 4, 1, 0; 2013 EM<sub>14</sub>, 10, 3, 53; 2013 EU<sub>14</sub>, 7, 2, 13; 2013 EW<sub>14</sub>, 4, 1, 0; 2013 EO<sub>16</sub>, 4, 1, 0; 2013 EZ<sub>16</sub>, 9, 3, 1060; 2013 EK<sub>17</sub>, 4, 1, 0; 2013 EG<sub>18</sub>, 4, 1, 0; 2013 ER<sub>18</sub>, 7, 2, 12; 2013 EG<sub>19</sub>, 4, 1, 0; 2013 EA<sub>20</sub>, 7, 2, 3; 2013 EE<sub>20</sub>, 5, 2, 1; 2013 ES<sub>21</sub>, 4, 1, 0; 2013 EC<sub>24</sub>, 3, 1, 0; 2013 EE<sub>24</sub>, 15, 4, 5; 2013 EH<sub>24</sub>, 3, 1, 0; 2013 EM<sub>24</sub>, 8, 2, 10; 2013 ES<sub>24</sub>, 3, 1, 0; 2013 EA<sub>25</sub>, 3, 1, 0; 2013 EA<sub>26</sub>, 3, 1, 0; 2013 EE<sub>26</sub>, 3, 1, 0; 2013 EM<sub>26</sub>, 3, 1, 0; 2013 EL<sub>27</sub>, 3, 1, 0; 2013 EM<sub>27</sub>, 3, 1, 0; 2013 ES<sub>27</sub>, 12, 3, 7; 2013 EN<sub>29</sub>, 3, 1, 0; 2013 ER<sub>29</sub>, 7, 2, 9; 2013 ES<sub>29</sub>, 3, 1, 0; 2013 EC<sub>30</sub>, 13, 4, 13; 2013 EJ<sub>30</sub>, 3, 1, 0; 2013 EU<sub>30</sub>, 3, 1, 0; 2013 EC<sub>31</sub>, 7, 2, 1; 2013 EC<sub>32</sub>, 8, 2, 2; 2013 ER<sub>32</sub>, 4, 1, 0; 2013 ES<sub>32</sub>, 13, 4, 5; 2013 EJ<sub>33</sub>, 4, 1, 0; 2013 EL<sub>33</sub>, 4, 1, 0; 2013 EO<sub>33</sub>, 4, 1, 0; 2013 EQ<sub>33</sub>, 6, 2, 5; 2013 ET<sub>33</sub>, 4, 1, 0; 2013 EZ<sub>33</sub>, 6, 2, 1; 2013 EM<sub>34</sub>, 3, 1, 0; 2013 EC<sub>35</sub>, 9, 3, 57; 2013 ET<sub>35</sub>, 4, 1, 0; 2013 EX<sub>35</sub>, 10, 3, 9; 2013 EA<sub>38</sub>, 9, 3, 1014; 2013 EH<sub>39</sub>, 6, 2, 2; 2013 EQ<sub>39</sub>, 4, 1, 0; 2013 EZ<sub>39</sub>, 10, 3, 11; 2013 EM<sub>40</sub>, 13, 4, 59; 2013 EV<sub>40</sub>, 10, 3, 7; 2013 EM<sub>43</sub>, 6, 2, 1; 2013 EF<sub>45</sub>, 10, 3, 39; 2013 EJ<sub>45</sub>, 4, 1, 0; 2013 ER<sub>48</sub>, 7, 1, 0; 2013 EH<sub>49</sub>, 4, 1, 0; 2013 EM<sub>49</sub>, 4, 1, 0; 2013 EX<sub>50</sub>, 4, 1, 0; 2013 EW<sub>52</sub>, 7, 2, 13; 2013 ED<sub>54</sub>, 4, 1, 0; 2013 ET<sub>55</sub>, 6, 2, 62; 2013 EH<sub>58</sub>, 12, 3, 18; 2013 EC<sub>59</sub>, 8, 2, 3; 2013 EW<sub>59</sub>, 3, 1, 0; 2013 EN<sub>60</sub>, 8, 2, 27; 2013 EO<sub>62</sub>, 4, 1, 0; 2013 ER<sub>62</sub>, 8, 2, 3; 2013 EX<sub>62</sub>, 4, 1, 0; 2013 EJ<sub>64</sub>, 8, 1, 0; 2013 ED<sub>66</sub>, 6, 2, 1; 2013 EN<sub>66</sub>, 3, 1, 0; 2013 ES<sub>66</sub>, 3, 1, 0; 2013 EN<sub>67</sub>, 3, 1, 0; 2013 ET<sub>67</sub>, 4, 1, 0; 2013 EF<sub>68</sub>, 8, 2, 2; 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2013 EW<sub>91</sub>, 8, 2, 7; 2013 EX<sub>91</sub>, 4, 1, 0; 2013 EA<sub>92</sub>, 7, 2, 9; 2013 ED<sub>92</sub>, 8, 2, 1; 2013 EE<sub>92</sub>, 4, 1, 0; 2013 EJ<sub>92</sub>, 5, 2, 1; 2013 EU<sub>92</sub>, 4, 1, 0; 2013 EY<sub>92</sub>, 2, 1, 0; 2013 EA<sub>93</sub>, 12, 2, 2; 2013 EM<sub>94</sub>, 10, 3, 29; 2013 EP<sub>94</sub>, 8, 2, 2;



2013 FG<sub>15</sub>, 3, 1, 0; 2013 FH<sub>15</sub>, 8, 2, 1; 2013 FQ<sub>15</sub>, 3, 1, 0; 2013 FX<sub>15</sub>, 8, 2, 3; 2013 FA<sub>16</sub>, 8, 2, 5; 2013 FJ<sub>16</sub>, 4, 1, 0; 2013 FU<sub>16</sub>, 3, 1, 0; 2013 FW<sub>16</sub>, 10, 3, 11; 2013 FA<sub>17</sub>, 4, 1, 0; 2013 FB<sub>17</sub>, 8, 2, 13; 2013 FC<sub>17</sub>, 3, 1, 0; 2013 FE<sub>17</sub>, 8, 2, 2; 2013 FX<sub>17</sub>, 3, 1, 0; 2013 FY<sub>17</sub>, 7, 2, 1; 2013 FF<sub>18</sub>, 15, 4, 11; 2013 FG<sub>18</sub>, 4, 1, 0; 2013 FH<sub>18</sub>, 4, 1, 0; 2013 FK<sub>18</sub>, 4, 1, 0; 2013 FL<sub>18</sub>, 7, 2, 3; 2013 FN<sub>18</sub>, 3, 1, 0; 2013 FV<sub>18</sub>, 10, 3, 11; 2013 FX<sub>18</sub>, 11, 3, 890; 2013 FC<sub>19</sub>, 12, 3, 31; 2013 FJ<sub>19</sub>, 20, 5, 5; 2013 FM<sub>19</sub>, 3, 1, 0; 2013 FO<sub>19</sub>, 3, 1, 0; 2013 FR<sub>19</sub>, 7, 2, 10; 2013 FY<sub>19</sub>, 8, 2, 3; 2013 FC<sub>20</sub>, 4, 1, 0; 2013 FE<sub>20</sub>, 7, 2, 2; 2013 FH<sub>20</sub>, 8, 2, 7; 2013 FL<sub>20</sub>, 3, 1, 0; 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2013 JY<sub>38</sub>, 7, 1, 0; 2013 JB<sub>39</sub>, 6, 2, 11; 2013 JQ<sub>39</sub>, 8, 2, 1; 2013 JV<sub>39</sub>, 6, 2, 1; 2013 JX<sub>39</sub>, 4, 1, 0; 2013 JS<sub>40</sub>, 4, 1, 0; 2013 JT<sub>40</sub>, 4, 1, 0; 2013 JX<sub>40</sub>, 10, 2, 3; 2013 JZ<sub>40</sub>, 3, 1, 0; 2013 JB<sub>41</sub>, 8, 2, 2; 2013 JS<sub>41</sub>, 7, 2, 11; 2013 JG<sub>42</sub>, 7, 2, 3; 2013 JY<sub>42</sub>, 3, 1, 0; 2013 JK<sub>43</sub>, 4, 1, 0; 2013 JV<sub>43</sub>, 3, 1, 0; 2013 JZ<sub>43</sub>, 4, 1, 0; 2013 JH<sub>44</sub>, 3, 1, 0; 2013 JT<sub>44</sub>, 3, 1, 0; 2013 JA<sub>45</sub>, 19, 5, 13; 2013 JJ<sub>46</sub>, 3, 1, 0; 2013 JP<sub>46</sub>, 11, 2, 1; 2013 JY<sub>46</sub>, 4, 1, 0; 2013 JZ<sub>46</sub>, 3, 1, 0; 2013 JA<sub>47</sub>, 6, 2, 2; 2013 JB<sub>47</sub>, 4, 1, 0; 2013 JD<sub>47</sub>, 3, 1, 0; 2013 JR<sub>47</sub>, 11, 2, 1; 2013 JZ<sub>47</sub>, 4, 1, 0; 2013 JB<sub>48</sub>, 3, 1, 0; 2013 JC<sub>48</sub>, 4, 1, 0; 2013 JF<sub>48</sub>, 7, 2, 1; 2013 JL<sub>48</sub>, 7, 2, 1; 2013 JR<sub>48</sub>, 7, 2, 10; 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2014 EB<sub>27</sub>, 3, 1, 0; 2014 EH<sub>27</sub>, 7, 2, 56; 2014 EU<sub>27</sub>, 7, 2, 27; 2014 EX<sub>29</sub>, 4, 1, 0; 2014 EC<sub>30</sub>, 11, 2, 26; 2014 EB<sub>36</sub>, 4, 1, 0; 2014 EG<sub>36</sub>, 4, 1, 0; 2014 ET<sub>36</sub>, 10, 3, 520; 2014 ER<sub>38</sub>, 4, 1, 0; 2014 EN<sub>39</sub>, 4, 1, 0; 2014 EA<sub>43</sub>, 3, 1, 0; 2014 EP<sub>44</sub>, 6, 2, 973; 2014 EQ<sub>44</sub>, 11, 3, 15; 2014 ER<sub>45</sub>, 8, 2, 14; 2014 EV<sub>46</sub>, 8, 2, 472; 2014 EB<sub>49</sub>, 3, 1, 0; 2014 EG<sub>50</sub>, 7, 2, 431; 2014 EH<sub>50</sub>, 8, 2, 43; 2014 EC<sub>51</sub>, 3, 1, 0; 2014 EF<sub>51</sub>, 3, 1, 0; 2014 FD<sub>1</sub>, 4, 1, 0; 2014 FD<sub>5</sub>, 3, 1, 0; 2014 FL<sub>10</sub>, 6, 2, 83; 2014 FY<sub>12</sub>, 4, 1, 0; 2014 FM<sub>14</sub>, 4, 1, 0; 2014 FW<sub>15</sub>, 4, 1, 0; 2014 FA<sub>17</sub>, 6, 2, 83; 2014 FE<sub>17</sub>, 4, 1, 0; 2014 FD<sub>18</sub>, 3, 1, 0; 2014 FV<sub>18</sub>, 17, 4, 948; 2014 FZ<sub>19</sub>, 4, 1, 0; 2014 FK<sub>20</sub>, 3, 1, 0;



7, 2, 30; 2014 HK<sub>54</sub>, 5, 2, 30; 2014 HM<sub>55</sub>, 12, 4, 1028; 2014 HF<sub>56</sub>, 11, 3, 44; 2014 HQ<sub>56</sub>, 8, 2, 30; 2014 HT<sub>56</sub>, 8, 2, 44; 2014 HZ<sub>56</sub>, 8, 2, 44; 2014 HK<sub>57</sub>, 8, 2, 14; 2014 HA<sub>59</sub>, 12, 3, 44; 2014 HU<sub>60</sub>, 3, 1, 0; 2014 HE<sub>64</sub>, 10, 3, 43; 2014 HC<sub>64</sub>, 11, 3, 52; 2014 HU<sub>64</sub>, 7, 2, 44; 2014 HS<sub>69</sub>, 7, 2, 43; 2014 HC<sub>78</sub>, 13, 4, 899; 2014 HK<sub>86</sub>, 3, 1, 0; 2014 HZ<sub>90</sub>, 11, 3, 51; 2014 HC<sub>102</sub>, 7, 2, 43; 2014 HV<sub>103</sub>, 3, 1, 0; 2014 HS<sub>108</sub>, 2, 1, 0; 2014 HL<sub>116</sub>, 3, 1, 0; 2014 HO<sub>120</sub>, 6, 2, 14; 2014 HJ<sub>123</sub>, 11, 3, 469; 2014 HM<sub>124</sub>, 7, 2, 1; 2014 HH<sub>125</sub>, 11, 3, 53; 2014 HF<sub>128</sub>, 8, 2, 45; 2014 HJ<sub>128</sub>, 2, 1, 0; 2014 HR<sub>128</sub>, 7, 2, 1; 2014 HE<sub>131</sub>, 7, 2, 6; 2014 HE<sub>133</sub>, 8, 2, 50; 2014 HR<sub>136</sub>, 7, 2, 45; 2014 HL<sub>138</sub>, 7, 2, 45; 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2014 JZ<sub>26</sub>, 4, 1, 0; 2014 JQ<sub>28</sub>, 3, 1, 0; 2014 JZ<sub>28</sub>, 8, 2, 1; 2014 JB<sub>29</sub>, 4, 1, 0; 2014 JC<sub>29</sub>, 3, 1, 0; 2014 JD<sub>29</sub>, 4, 1, 0; 2014 JE<sub>29</sub>, 3, 1, 0; 2014 JG<sub>29</sub>, 7, 2, 1; 2014 JV<sub>29</sub>, 3, 1, 0; 2014 JF<sub>30</sub>, 2, 1, 0; 2014 JG<sub>30</sub>, 3, 1, 0; 2014 JJ<sub>31</sub>, 4, 1, 0; 2014 JQ<sub>31</sub>, 14, 4, 557; 2014 JA<sub>32</sub>, 11, 3, 45; 2014 JY<sub>32</sub>, 10, 3, 45; 2014 JZ<sub>32</sub>, 12, 3, 35; 2014 JA<sub>33</sub>, 12, 4, 995; 2014 JC<sub>33</sub>, 9, 3, 47; 2014 JH<sub>33</sub>, 4, 1, 0; 2014 JK<sub>33</sub>, 11, 2, 56; 2014 JN<sub>33</sub>, 4, 1, 0; 2014 JP<sub>33</sub>, 7, 2, 52; 2014 JB<sub>34</sub>, 4, 1, 0; 2014 JC<sub>34</sub>, 6, 2, 443; 2014 JZ<sub>34</sub>, 4, 1, 0; 2014 JE<sub>35</sub>, 3, 1, 0; 2014 JY<sub>36</sub>, 7, 2, 4; 2014 JK<sub>37</sub>, 3, 1, 0; 2014 JG<sub>38</sub>, 3, 1, 0; 2014 JJ<sub>40</sub>, 6, 2, 6; 2014 JP<sub>41</sub>, 8, 2, 20; 2014 JC<sub>42</sub>, 4, 1, 0; 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2014 JP<sub>67</sub>, 4, 1, 0; 2014 JQ<sub>67</sub>, 7, 2, 6; 2014 JW<sub>67</sub>, 6, 2, 7; 2014 JB<sub>68</sub>, 7, 2, 16; 2014 JC<sub>68</sub>, 11, 3, 83; 2014 JO<sub>68</sub>, 4, 1, 0; 2014 JG<sub>68</sub>, 6, 2, 16; 2014 JQ<sub>68</sub>, 9, 3, 51; 2014 JS<sub>68</sub>, 11, 3, 51; 2014 JT<sub>68</sub>, 9, 3, 49; 2014 JV<sub>68</sub>, 10, 3, 477; 2014 JY<sub>68</sub>, 10, 3, 59; 2014 JB<sub>69</sub>, 7, 2, 23; 2014 JF<sub>69</sub>, 8, 2, 23; 2014 JJ<sub>69</sub>, 8, 2, 23; 2014 JM<sub>69</sub>, 14, 4, 1061; 2014 JO<sub>69</sub>, 3, 1, 0; 2014 JR<sub>69</sub>, 3, 1, 0; 2014 JT<sub>69</sub>, 3, 1, 0; 2014 JU<sub>69</sub>, 11, 3, 27; 2014 JG<sub>70</sub>, 7, 2, 20; 2014 JH<sub>70</sub>, 10, 3, 96; 2014 JK<sub>70</sub>, 14, 3, 987; 2014 JM<sub>70</sub>, 15, 4, 51; 2014 JN<sub>70</sub>, 7, 2, 31; 2014 JP<sub>70</sub>, 12, 3, 35; 2014 JQ<sub>70</sub>, 10, 3, 35; 2014 JT<sub>70</sub>, 8, 2, 20; 2014 JU<sub>70</sub>, 15, 4, 86; 2014 JX<sub>70</sub>, 4, 1, 0; 2014 JA<sub>71</sub>, 6, 2, 23; 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2014 JF<sub>77</sub>, 8, 2, 6; 2014 JL<sub>77</sub>, 9, 3, 470; 2014 JM<sub>77</sub>, 7, 2, 61; 2014 JQ<sub>77</sub>, 13, 4, 565; 2014 JX<sub>77</sub>, 8, 1, 0; 2014 JY<sub>77</sub>, 3, 1, 0; 2014 JA<sub>78</sub>, 8, 2, 1; 2014 JY<sub>78</sub>, 10, 3, 555; 2014 JC<sub>79</sub>, 3, 1, 0; 2014 JG<sub>79</sub>, 11, 3, 28; 2014 KN, 10, 3, 47; 2014 KX<sub>1</sub>, 16, 5, 85; 2014 KG<sub>2</sub>, 11, 3, 3; 2014 KV<sub>2</sub>, 14, 4, 112; 2014 KQ<sub>3</sub>, 4, 1, 0; 2014 KS<sub>3</sub>, 7, 2, 31; 2014 KV<sub>3</sub>, 3, 1, 0; 2014 KW<sub>3</sub>, 3, 1, 0; 2014 KR<sub>4</sub>, 8, 2, 59; 2014 KA<sub>5</sub>, 4, 1, 0; 2014 KV<sub>5</sub>, 7, 2, 10; 2014 KL<sub>6</sub>, 10, 3, 52; 2014 KW<sub>6</sub>, 4, 1, 0; 2014 KD<sub>7</sub>, 3, 1, 0; 2014 KJ<sub>7</sub>, 7, 2, 469; 2014 KA<sub>8</sub>, 11, 3, 32; 2014 KH<sub>8</sub>, 13, 4, 53; 2014 KS<sub>8</sub>, 4, 1, 0; 2014 KV<sub>8</sub>, 4, 1, 0; 2014 KJ<sub>9</sub>, 4, 1, 0; 2014 KK<sub>9</sub>, 3, 1, 0; 2014 KL<sub>9</sub>, 3, 1, 0; 2014 KM<sub>9</sub>, 12, 3, 509; 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2014 KD<sub>26</sub>, 7, 1, 0; 2014 KR<sub>26</sub>, 4, 1, 0; 2014 KV<sub>26</sub>, 4, 1, 0; 2014 KW<sub>26</sub>, 7, 2, 51; 2014 KC<sub>27</sub>, 8, 2, 26; 2014 KJ<sub>27</sub>, 3, 1, 0; 2014 KP<sub>27</sub>, 11, 4, 31; 2014 KR<sub>27</sub>, 8, 2, 6; 2014 KM<sub>28</sub>, 4, 1, 0; 2014 KC<sub>29</sub>, 3, 1, 0; 2014 KE<sub>29</sub>, 7, 2, 1; 2014 KK<sub>29</sub>, 4, 1, 0; 2014 KN<sub>29</sub>, 3, 1, 0; 2014 KS<sub>29</sub>, 6, 2, 55; 2014 KA<sub>30</sub>, 3, 1, 0; 2014 KE<sub>30</sub>, 4, 1, 0; 2014 KL<sub>30</sub>, 7, 2, 55; 2014 KM<sub>30</sub>, 7, 2, 476; 2014 KV<sub>30</sub>, 3, 1, 0; 2014 KF<sub>31</sub>, 3, 1, 0; 2014 KB<sub>33</sub>, 10, 3, 26; 2014 KF<sub>33</sub>, 12, 4, 83; 2014 KG<sub>33</sub>, 15, 3, 48; 2014 KL<sub>33</sub>, 12, 3, 61; 2014 KM<sub>33</sub>, 10, 3, 45; 2014 KP<sub>33</sub>, 10, 3, 82; 2014 KU<sub>33</sub>, 3, 1, 0; 2014 KY<sub>33</sub>, 16, 5, 69; 2014 KM<sub>34</sub>, 4, 1, 0; 2014 KP<sub>34</sub>, 4, 1, 0; 2014 KQ<sub>34</sub>, 4, 1, 0; 2014 KX<sub>34</sub>, 4, 1, 0; 2014 KS<sub>35</sub>, 4, 1, 0; 2014 KJ<sub>36</sub>, 7, 2, 53; 2014 KH<sub>37</sub>, 12, 3, 37; 2014 KL<sub>38</sub>, 12, 3, 57; 2014 KS<sub>38</sub>, 4, 1, 0; 2014 KP<sub>39</sub>, 8, 2, 13; 2014 KO<sub>40</sub>, 3, 1, 0; 2014 KS<sub>40</sub>, 8, 2, 1; 2014 KU<sub>40</sub>, 20, 6, 526; 2014 KV<sub>40</sub>, 7, 1, 0; 2014 KW<sub>40</sub>, 7, 1, 0; 2014 KY<sub>40</sub>, 6, 1, 0; 2014 KZ<sub>40</sub>, 7, 2, 8; 2014 KB<sub>41</sub>, 15, 4, 938; 2014 KM<sub>41</sub>, 14, 4, 50; 2014 KN<sub>41</sub>, 3, 1, 0; 2014 KA<sub>42</sub>, 3, 1, 0; 2014 KD<sub>42</sub>, 14, 4, 148; 2014 KL<sub>42</sub>, 3, 1, 0; 2014 KR<sub>42</sub>, 6, 2, 1; 2014 KT<sub>42</sub>, 12, 2, 1; 2014 KC<sub>43</sub>, 3, 1, 0; 2014 KD<sub>43</sub>, 3, 1, 0; 2014 KJ<sub>43</sub>, 10, 3, 53; 2014 KV<sub>43</sub>, 4, 1, 0; 2014 KN<sub>44</sub>, 8, 3, 104; 2014 KP<sub>44</sub>, 3, 1, 0; 2014 KQ<sub>44</sub>, 7, 2, 1; 2014 KR<sub>45</sub>, 3, 1, 0; 2014 KP<sub>46</sub>, 7, 2, 1; 2014 KU<sub>46</sub>, 6, 2, 34; 2014 KV<sub>46</sub>, 8, 2, 34; 2014 KY<sub>46</sub>, 6, 2, 34; 2014 KG<sub>47</sub>, 3, 1, 0; 2014 KC<sub>48</sub>, 3, 1, 0; 2014 KF<sub>48</sub>, 4, 1, 0; 2014 KB<sub>49</sub>, 7, 2, 7; 2014 KL<sub>49</sub>, 3, 1, 0; 2014 KM<sub>49</sub>, 7, 2, 6; 2014 KW<sub>49</sub>, 4, 1, 0; 2014 KB<sub>50</sub>, 6, 2, 34; 2014 KN<sub>50</sub>, 10, 3, 33; 2014 KO<sub>51</sub>, 18, 5, 82; 2014 KT<sub>51</sub>, 3, 1, 0; 2014 KW<sub>51</sub>, 11, 3, 49; 2014 KX<sub>51</sub>, 3, 1, 0; 2014 KY<sub>51</sub>, 7, 2, 1; 2014 KB<sub>52</sub>, 4, 1, 0; 2014 KE<sub>52</sub>, 10, 3, 34; 2014 KZ<sub>52</sub>, 3, 1, 0; 2014 KJ<sub>53</sub>, 15, 4, 476; 2014 KK<sub>53</sub>, 4, 1, 0; 2014 KA<sub>54</sub>, 4, 1, 0; 2014 KE<sub>54</sub>, 7, 2, 2, 1; 2014 KP<sub>54</sub>, 4, 1, 0; 2014 KQ<sub>54</sub>, 17, 5, 56; 2014 KR<sub>54</sub>, 8, 2, 25; 2014 KU<sub>54</sub>, 10, 3, 79; 2014 KE<sub>55</sub>, 4, 1, 0; 2014 KF<sub>55</sub>, 15, 4, 55; 2014 KG<sub>55</sub>, 4, 1, 0; 2014 KB<sub>56</sub>, 4, 1, 0; 2014 KQ<sub>56</sub>, 4, 1, 0; 2014 KU<sub>56</sub>, 4, 1, 0; 2014 KZ<sub>56</sub>, 4, 1, 0; 2014 KE<sub>57</sub>, 4, 1, 0; 2014 KF<sub>57</sub>, 3, 1, 0; 2014 KJ<sub>57</sub>, 3, 1, 0; 2014 KN<sub>57</sub>, 3, 1, 0; 2014 KU<sub>57</sub>, 3, 1, 0; 2014 KV<sub>57</sub>, 6, 2, 30; 2014 KY<sub>57</sub>, 4, 1, 0; 2014 KP<sub>58</sub>, 4, 1, 0; 2014 KQ<sub>58</sub>, 15, 4, 57; 2014 KW<sub>58</sub>, 6, 2, 1; 2014 KY<sub>58</sub>, 4, 1, 0; 2014 KL<sub>59</sub>, 3, 1, 0; 2014 KN<sub>59</sub>, 11, 3, 80; 2014 KS<sub>59</sub>, 15, 3, 18; 2014 KP<sub>61</sub>, 4, 1, 0; 2014 KB<sub>62</sub>, 8, 2, 1; 2014 KL<sub>62</sub>, 6, 2, 1; 2014 KA<sub>65</sub>, 11, 3, 55; 2014 KQ<sub>65</sub>, 7, 2, 1; 2014 KP<sub>66</sub>, 8, 2, 1; 2014 KZ<sub>66</sub>, 3, 1, 0; 2014 KM<sub>67</sub>, 11, 3, 45; 2014 KL<sub>68</sub>, 3, 1, 0; 2014 KM<sub>68</sub>, 4, 1, 0; 2014 KN<sub>68</sub>, 7, 2, 53; 2014 KP<sub>68</sub>, 3, 1, 0; 2014 KR<sub>68</sub>, 10, 2, 1; 2014 KY<sub>68</sub>, 3, 1, 0; 2014 KA<sub>69</sub>, 7, 2, 48; 2014 KH<sub>69</sub>, 4, 1, 0; 2014 KQ<sub>69</sub>, 8, 2, 45; 2014 KT<sub>69</sub>, 7, 2, 27; 2014



3, 1, 0; 2014 KK<sub>93</sub>, 13, 3, 502; 2014 KM<sub>93</sub>, 13, 4, 1014; 2014 KO<sub>93</sub>, 4, 1, 0; 2014 KP<sub>93</sub>, 4, 1, 0; 2014 KU<sub>93</sub>, 3, 1, 0; 2014 KA<sub>94</sub>, 7, 2, 1011; 2014 KD<sub>94</sub>, 3, 1, 0; 2014 KJ<sub>94</sub>, 4, 1, 0; 2014 KO<sub>94</sub>, 3, 1, 0; 2014 KP<sub>94</sub>, 18, 5, 67; 2014 KQ<sub>94</sub>, 7, 2, 84; 2014 KS<sub>94</sub>, 5, 2, 16; 2014 KX<sub>94</sub>, 6, 2, 1; 2014 KY<sub>94</sub>, 8, 2, 32; 2014 KZ<sub>94</sub>, 4, 1, 0; 2014 KG<sub>95</sub>, 15, 4, 51; 2014 KQ<sub>95</sub>, 11, 3, 591; 2014 KZ<sub>95</sub>, 4, 1, 0; 2014 KC<sub>97</sub>, 17, 5, 1293; 2014 KT<sub>97</sub>, 8, 2, 29; 2014 KF<sub>98</sub>, 6, 2, 38; 2014 KK<sub>98</sub>, 3, 1, 0; 2014 KP<sub>98</sub>, 3, 1, 0; 2014 KT<sub>98</sub>, 11, 3, 59; 2014 KM<sub>99</sub>, 3, 1, 0; 2014 KN<sub>99</sub>, 3, 1, 0; 2014 KS<sub>99</sub>, 3, 1, 0; 2014 KU<sub>99</sub>, 4, 1, 0; 2014 KJ<sub>100</sub>, 7, 2, 22; 2014 KR<sub>100</sub>, 18, 5, 80; 2014 KT<sub>100</sub>, 3, 1, 0; 2014 KC<sub>101</sub>, 4, 1, 0; 2014 KE<sub>101</sub>, 4, 1, 0; 2014 KL<sub>101</sub>, 7, 2, 34; 2014 KM<sub>101</sub>, 22, 6, 109; 2014 KP<sub>101</sub>, 12, 3, 451; 2014 LM<sub>4</sub>, 4, 1, 0; 2014 LN<sub>4</sub>, 29, 8, 998; 2014 LP<sub>4</sub>, 4, 1, 0; 2014 LX<sub>4</sub>, 3, 1, 0; 2014 LA<sub>1</sub>, 8, 2, 9; 2014 LB<sub>1</sub>, 25, 7, 29; 2014 LK<sub>1</sub>, 9, 2, 6; 2014 LX<sub>1</sub>, 7, 2, 16; 2014 LY<sub>1</sub>, 4, 1, 0; 2014 LP<sub>2</sub>, 7, 2, 14; 2014 LW<sub>2</sub>, 3, 1, 0; 2014 LV<sub>3</sub>, 3, 1, 0; 2014 LA<sub>4</sub>, 14, 4, 79; 2014 LC<sub>4</sub>, 11, 3, 77; 2014 LF<sub>4</sub>, 4, 1, 0; 2014 LH<sub>4</sub>, 5, 2, 17; 2014 LJ<sub>4</sub>, 4, 1, 0; 2014 LK<sub>4</sub>, 7, 2, 16; 2014 LL<sub>4</sub>, 10, 3, 483; 2014 LO<sub>4</sub>, 19, 5, 79; 2014 LT<sub>4</sub>, 14, 4, 52; 2014 LH<sub>5</sub>, 12, 3, 45; 2014 LK<sub>5</sub>, 6, 2, 21; 2014 LN<sub>5</sub>, 7, 2, 35; 2014 LQ<sub>5</sub>, 14, 4, 79; 2014 LA<sub>6</sub>, 4, 1, 0; 2014 LQ<sub>6</sub>, 14, 3, 55; 2014 LZ<sub>6</sub>, 20, 5, 1060; 2014 LH<sub>7</sub>, 8, 2, 28; 2014 LO<sub>7</sub>, 11, 3, 20; 2014 LR<sub>7</sub>, 8, 2, 18; 2014 LX<sub>7</sub>, 4, 1, 0; 2014 LE<sub>8</sub>, 3, 1, 0; 2014 LF<sub>8</sub>, 10, 3, 1032; 2014 LH<sub>8</sub>, 10, 3, 57; 2014 LJ<sub>8</sub>, 4, 1, 0; 2014 LT<sub>8</sub>, 16, 5, 1000; 2014 LD<sub>9</sub>, 20, 5, 79; 2014 LH<sub>9</sub>, 3, 1, 0; 2014 LL<sub>9</sub>, 4, 1, 0; 2014 LC<sub>10</sub>, 18, 5, 90; 2014 LE<sub>10</sub>, 7, 2, 30; 2014 LF<sub>10</sub>, 7, 2, 42; 2014 LV<sub>10</sub>, 8, 2, 16; 2014 LX<sub>10</sub>, 8, 2, 53; 2014 LY<sub>10</sub>, 8, 2, 53; 2014 LB<sub>11</sub>, 16, 3, 5; 2014 LC<sub>11</sub>, 5, 2, 1; 2014 LD<sub>11</sub>, 3, 1, 0; 2014 LE<sub>11</sub>, 4, 1, 0; 2014 LH<sub>11</sub>, 19, 5, 80; 2014 LK<sub>11</sub>, 4, 1, 0; 2014 LM<sub>11</sub>, 20, 5, 50; 2014 LN<sub>11</sub>, 11, 3, 957; 2014 LO<sub>11</sub>, 7, 2, 30; 2014 LP<sub>11</sub>, 3, 1, 0; 2014 LQ<sub>11</sub>, 3, 1, 0; 2014 LS<sub>11</sub>, 4, 1, 0; 2014 LT<sub>11</sub>, 7, 2, 28; 2014 LV<sub>11</sub>, 15, 3, 59; 2014 LY<sub>11</sub>, 3, 1, 0; 2014 LB<sub>12</sub>, 3, 1, 0; 2014 LD<sub>12</sub>, 14, 4, 38; 2014 LE<sub>12</sub>, 3, 1, 0; 2014 LP<sub>12</sub>, 4, 1, 0; 2014 LS<sub>12</sub>, 10, 3, 93; 2014 LT<sub>12</sub>, 11, 2, 1; 2014 LD<sub>13</sub>, 6, 2, 1; 2014 LE<sub>13</sub>, 3, 1, 0; 2014 LF<sub>13</sub>, 3, 1, 0; 2014 LJ<sub>13</sub>, 9, 3, 2; 2014 LK<sub>13</sub>, 3, 1, 0; 2014 LM<sub>13</sub>, 7, 2, 1; 2014 LQ<sub>13</sub>, 8, 2, 9; 2014 LS<sub>13</sub>, 17, 5, 90; 2014 LU<sub>13</sub>, 10, 3, 5; 2014 LV<sub>13</sub>, 19, 5, 48; 2014 LW<sub>13</sub>, 8, 2, 4; 2014 LB<sub>14</sub>, 3, 1, 0; 2014 LL<sub>14</sub>, 7, 2, 53; 2014 LM<sub>14</sub>, 10, 3, 29; 2014 LZ<sub>14</sub>, 4, 1, 0; 2014 LC<sub>15</sub>, 7, 2, 10; 2014 LE<sub>15</sub>, 11, 3, 5; 2014 LH<sub>15</sub>, 12, 3, 920; 2014 LJ<sub>15</sub>, 22, 6, 501; 2014 LL<sub>15</sub>, 15, 4, 564; 2014 LM<sub>15</sub>, 4, 1, 0; 2014 LO<sub>15</sub>, 15, 3, 11; 2014 LP<sub>15</sub>, 4, 1, 0; 2014 LQ<sub>15</sub>, 11, 3, 11; 2014 LR<sub>15</sub>, 11, 3, 51; 2014 LS<sub>15</sub>, 8, 1, 0; 2014 LV<sub>15</sub>, 7, 2, 9; 2014 LW<sub>15</sub>, 16, 4, 24; 2014 LX<sub>15</sub>, 9, 3, 5; 2014 LY<sub>15</sub>, 4, 1, 0; 2014 LA<sub>16</sub>, 4, 1, 0; 2014 LB<sub>16</sub>, 3, 1, 0; 2014 LC<sub>16</sub>, 15, 3, 5; 2014 LD<sub>16</sub>, 3, 1, 0; 2014 LH<sub>16</sub>, 3, 1, 0; 2014 LJ<sub>16</sub>, 12, 3, 21; 2014 LM<sub>16</sub>, 12, 3, 34; 2014 LO<sub>16</sub>, 11, 3, 5; 2014 LQ<sub>16</sub>, 19, 4, 61; 2014 LR<sub>16</sub>, 8, 2, 9; 2014 LZ<sub>16</sub>, 6, 2, 10; 2014 LG<sub>17</sub>, 7, 2, 8; 2014 LJ<sub>17</sub>, 4, 1, 0; 2014 LP<sub>17</sub>, 4, 1, 0; 2014 LQ<sub>17</sub>, 7, 2, 1; 2014 LS<sub>17</sub>, 17, 5, 83; 2014 LT<sub>17</sub>, 12, 3, 56; 2014 LU<sub>17</sub>, 13, 4, 91; 2014 LV<sub>17</sub>, 14, 4, 77; 2014 LW<sub>17</sub>, 14, 4, 55; 2014 LX<sub>17</sub>, 15, 4, 53; 2014 LA<sub>18</sub>, 18, 5, 81; 2014 LB<sub>18</sub>, 10, 3, 59; 2014 LC<sub>18</sub>, 5, 2, 79; 2014 LH<sub>18</sub>, 6, 2, 21; 2014 LJ<sub>18</sub>, 15, 4, 53; 2014 LM<sub>18</sub>, 21, 6, 141; 2014 LO<sub>18</sub>, 7, 2, 34; 2014 LG<sub>19</sub>, 10, 3, 45; 2014 LT<sub>19</sub>, 3, 1, 0; 2014 LP<sub>19</sub>, 16, 4, 48; 2014 LQ<sub>19</sub>, 11, 3, 32; 2014 LS<sub>19</sub>, 7, 2, 27; 2014 LT<sub>19</sub>, 14, 4, 85; 2014 LW<sub>19</sub>, 7, 2, 56; 2014 LX<sub>19</sub>, 23, 6, 102; 2014 LZ<sub>19</sub>, 7, 2, 5; 2014 LB<sub>20</sub>, 22, 6, 968; 2014 LC<sub>20</sub>, 4, 1, 0; 2014 LD<sub>20</sub>, 3, 1, 0; 2014 LO<sub>20</sub>, 11, 2, 1; 2014 LT<sub>20</sub>, 3, 1, 0; 2014 LA<sub>21</sub>, 9, 3, 2; 2014 LT<sub>21</sub>, 7, 2, 1; 2014 LW<sub>21</sub>, 8, 2, 2; 2014 LA<sub>22</sub>, 22, 6, 1094; 2014 LB<sub>22</sub>, 12, 4, 80; 2014 LC<sub>22</sub>, 3, 1, 0; 2014 LF<sub>22</sub>, 15, 4, 530; 2014 LL<sub>22</sub>, 4, 1, 0; 2014 LM<sub>22</sub>, 4, 1, 0; 2014 LQ<sub>22</sub>, 7, 2, 2; 2014 LS<sub>22</sub>, 14, 4, 64; 2014 LT<sub>22</sub>, 5, 2, 443; 2014 LB<sub>23</sub>, 10, 3, 55; 2014 LC<sub>23</sub>, 3, 1, 0; 2014 LF<sub>23</sub>, 16, 4, 66; 2014 LJ<sub>23</sub>, 4, 1, 0; 2014 LP<sub>23</sub>, 30, 8, 101; 2014 LS<sub>23</sub>, 13, 4, 105; 2014 LT<sub>23</sub>, 3, 1, 0; 2014 LU<sub>23</sub>, 4, 1, 0; 2014 LW<sub>23</sub>, 11, 3, 59; 2014 LX<sub>23</sub>, 7, 2, 4; 2014 LY<sub>23</sub>, 3, 1, 0; 2014 LA<sub>24</sub>, 15, 4, 64; 2014 LC<sub>24</sub>, 7, 2, 9; 2014 LD<sub>24</sub>, 27, 6, 90; 2014 LE<sub>24</sub>, 12, 3, 35; 2014 LK<sub>24</sub>, 8, 2, 28; 2014 LG<sub>25</sub>, 7, 2, 103; 2014 LH<sub>25</sub>, 12, 4, 111; 2014 LJ<sub>25</sub>, 11, 3, 441; 2014 LL<sub>25</sub>, 4, 1, 0; 2014 LO<sub>25</sub>, 8, 2, 10; 2014 LT<sub>25</sub>, 3, 1, 0; 2014 LV<sub>25</sub>, 10, 3, 135; 2014 LY<sub>25</sub>, 16, 4, 140; 2014 LE<sub>26</sub>, 3, 1, 0; 2014 LK<sub>26</sub>, 3, 1, 0; 2014 LQ<sub>26</sub>, 8, 2, 1; 2014 LR<sub>26</sub>, 4, 1, 0; 2014 LX<sub>26</sub>, 7, 2, 134; 2014 LY<sub>26</sub>, 7, 2, 16; 2014 LD<sub>27</sub>, 3, 1, 0; 2014 LF<sub>27</sub>, 4, 1, 0; 2014 LJ<sub>27</sub>, 6, 2, 8; 2014 LL<sub>27</sub>, 3, 1, 0; 2014 LN<sub>27</sub>, 17, 5, 486; 2014 LO<sub>27</sub>, 8, 2, 6; 2014 LA<sub>28</sub>, 18, 5, 1060; 2014 LC<sub>28</sub>, 18, 5, 84; 2014 LE<sub>28</sub>, 7, 2, 1; 2014 LF<sub>28</sub>, 3, 1, 0; 2014 MB<sub>8</sub>, 1, 0; 2014 MH<sub>8</sub>, 3, 1, 0; 2014 ML<sub>8</sub>, 6, 2, 566; 2014 MQ<sub>4</sub>, 4, 1, 0; 2014 MR<sub>3</sub>, 3, 1, 0; 2014 MZ<sub>19</sub>, 5, 55; 2014 MJ<sub>1</sub>, 7, 2, 1; 2014 ML<sub>1</sub>, 11, 3, 39; 2014 MM<sub>1</sub>, 4, 1, 0; 2014 MT<sub>1</sub>, 6, 2, 56; 2014 MX<sub>1</sub>, 11, 3, 82; 2014 MB<sub>2</sub>, 6, 2, 1; 2014 MK<sub>2</sub>, 8, 2, 1038; 2014 MN<sub>2</sub>, 11, 3, 65; 2014 MP<sub>2</sub>, 7, 2, 7; 2014 MS<sub>2</sub>, 3, 1, 0; 2014 MX<sub>2</sub>, 11, 3, 22; 2014 MY<sub>2</sub>, 8, 2, 445; 2014 MF<sub>3</sub>, 15, 3, 61; 2014 MG<sub>3</sub>, 3, 1, 0; 2014 MW<sub>3</sub>, 5, 2, 1; 2014 MC<sub>4</sub>, 8, 2, 1; 2014 MD<sub>4</sub>, 12, 3, 7; 2014 MD<sub>4</sub>, 7, 2, 4; 2014 ME<sub>4</sub>, 4, 1, 0; 2014 MH<sub>4</sub>, 12, 3, 5; 2014 MJ<sub>4</sub>, 10, 3, 44; 2014 MK<sub>4</sub>, 4, 1, 0; 2014 ML<sub>4</sub>, 4, 1, 0; 2014 MM<sub>4</sub>, 4, 1, 0; 2014 MN<sub>4</sub>, 22, 6, 1005; 2014 MO<sub>4</sub>, 8, 2, 28; 2014 MP<sub>4</sub>, 11, 3, 2; 2014 MZ<sub>4</sub>, 6, 2, 8; 2014 ML<sub>5</sub>, 4, 1, 0; 2014 MM<sub>5</sub>, 7, 2, 13; 2014 MU<sub>5</sub>, 3, 1, 0; 2014 MX<sub>5</sub>, 12, 3, 3; 2014 MR<sub>6</sub>, 11, 3, 47; 2014 MS<sub>6</sub>, 8, 2, 28; 2014 MW<sub>6</sub>, 4, 1, 0; 2014 MX<sub>6</sub>, 34, 9, 113; 2014 MB<sub>7</sub>, 3, 1, 0; 2014 MD<sub>7</sub>, 15, 4, 88; 2014 MM<sub>7</sub>, 11, 3, 3; 2014 MO<sub>7</sub>, 7, 2, 17; 2014 MU<sub>7</sub>, 9, 2, 80; 2014 MX<sub>7</sub>, 8, 2, 9; 2014 MY<sub>7</sub>, 14, 4, 11; 2014 MZ<sub>7</sub>, 7, 2, 11; 2014 MM<sub>8</sub>, 3, 1, 0; 2014 MQ<sub>8</sub>, 6, 2, 32; 2014 MS<sub>8</sub>, 6, 2, 1; 2014 MZ<sub>8</sub>, 4, 1, 0; 2014 ML<sub>9</sub>, 10, 3, 14; 2014 MT<sub>9</sub>, 4, 1, 0; 2014 MW<sub>9</sub>, 10, 3, 70; 2014 MB<sub>10</sub>, 6, 1, 0; 2014 MD<sub>10</sub>, 6, 2, 1; 2014 MR<sub>10</sub>, 4, 1, 0; 2014 MN<sub>11</sub>, 14, 4, 87; 2014 MU<sub>11</sub>, 19, 5, 66; 2014 MZ<sub>11</sub>, 6, 2, 515; 2014 MD<sub>12</sub>, 19, 5, 78; 2014 MK<sub>12</sub>, 11, 3, 14; 2014 MU<sub>12</sub>, 11, 3, 11; 2014 MX<sub>12</sub>, 4, 1, 0; 2014 MZ<sub>12</sub>, 3, 1, 0; 2014 MB<sub>13</sub>, 7, 2, 1; 2014 MC<sub>13</sub>, 8, 2, 1; 2014 ME<sub>13</sub>, 4, 1, 0; 2014 MF<sub>13</sub>, 6, 2, 9; 2014 MQ<sub>13</sub>, 7, 2, 11; 2014 MR<sub>13</sub>, 4, 1, 0; 2014 MS<sub>13</sub>, 6, 2, 9; 2014 MT<sub>13</sub>, 3, 1, 0; 2014 MU<sub>13</sub>, 8, 2, 2; 2014 MV<sub>13</sub>, 11, 2, 9; 2014 MW<sub>13</sub>, 11, 3, 4; 2014 MY<sub>13</sub>, 3, 1, 0; 2014 MZ<sub>13</sub>, 4, 1, 0; 2014 MA<sub>14</sub>, 3, 1, 0; 2014 MB<sub>14</sub>, 4, 1, 0; 2014 MC<sub>14</sub>, 3, 1, 0; 2014 MF<sub>14</sub>, 8, 1, 0; 2014 MG<sub>14</sub>, 13, 3, 11; 2014 MH<sub>14</sub>, 24, 7, 77; 2014 MR<sub>14</sub>, 8, 2, 1; 2014 MU<sub>14</sub>,

4, 1, 0; 2014 MX<sub>14</sub>, 4, 1, 0; 2014 MA<sub>15</sub>, 3, 1, 0; 2014 MB<sub>15</sub>, 10, 3, 11; 2014 MC<sub>15</sub>, 14, 3, 11; 2014 ME<sub>15</sub>, 12, 3, 54; 2014 MF<sub>15</sub>, 7, 2, 53; 2014 MG<sub>15</sub>, 9, 3, 32; 2014 MH<sub>15</sub>, 8, 2, 2; 2014 ML<sub>15</sub>, 11, 3, 37; 2014 MM<sub>15</sub>, 17, 5, 99; 2014 MN<sub>15</sub>, 3, 1, 0; 2014 MO<sub>15</sub>, 3, 1, 0; 2014 MQ<sub>15</sub>, 4, 1, 0; 2014 MT<sub>15</sub>, 7, 2, 7; 2014 MH<sub>16</sub>, 12, 4, 59; 2014 ML<sub>16</sub>, 4, 1, 0; 2014 MP<sub>16</sub>, 7, 2, 13; 2014 MR<sub>16</sub>, 8, 2, 1; 2014 MS<sub>16</sub>, 16, 4, 950; 2014 MT<sub>16</sub>, 16, 4, 62; 2014 MV<sub>16</sub>, 4, 1, 0; 2014 MA<sub>17</sub>, 20, 6, 57; 2014 MC<sub>17</sub>, 12, 3, 8; 2014 MD<sub>17</sub>, 7, 2, 548; 2014 MH<sub>17</sub>, 8, 2, 1; 2014 MJ<sub>17</sub>, 4, 1, 0; 2014 MQ<sub>17</sub>, 14, 4, 134; 2014 MR<sub>17</sub>, 24, 7, 946; 2014 MW<sub>17</sub>, 7, 2, 10; 2014 MS<sub>18</sub>, 8, 2, 8; 2014 MK<sub>19</sub>, 6, 2, 6; 2014 MO<sub>19</sub>, 6, 2, 8; 2014 MQ<sub>19</sub>, 4, 1, 0; 2014 MR<sub>19</sub>, 7, 2, 24; 2014 MV<sub>19</sub>, 8, 2, 6; 2014 MW<sub>19</sub>, 3, 1, 0; 2014 MW<sub>19</sub>, 7, 2, 1; 2014 MX<sub>19</sub>, 7, 2, 1; 2014 MA<sub>20</sub>, 4, 1, 0; 2014 MB<sub>20</sub>, 12, 4, 587; 2014 MD<sub>20</sub>, 7, 2, 1; 2014 ME<sub>20</sub>, 3, 1, 0; 2014 MF<sub>20</sub>, 7, 2, 9; 2014 MH<sub>20</sub>, 8, 2, 76; 2014 ML<sub>20</sub>, 8, 2, 1; 2014 MO<sub>20</sub>, 15, 4, 11; 2014 MP<sub>20</sub>, 3, 1, 0; 2014 MQ<sub>20</sub>, 8, 2, 9; 2014 MR<sub>20</sub>, 9, 3, 14; 2014 MS<sub>20</sub>, 3, 1, 0; 2014 MV<sub>20</sub>, 7, 2, 1146; 2014 MW<sub>20</sub>, 17, 4, 13; 2014 MA<sub>21</sub>, 16, 3, 5; 2014 MC<sub>21</sub>, 11, 2, 10; 2014 ME<sub>21</sub>, 14, 4, 28; 2014 MF<sub>21</sub>, 8, 2, 27; 2014 MG<sub>21</sub>, 3, 1, 0; 2014 MJ<sub>21</sub>, 4, 1, 0; 2014 ML<sub>21</sub>, 10, 3, 37; 2014 MN<sub>21</sub>, 14, 4, 552; 2014 MQ<sub>21</sub>, 6, 2, 55; 2014 MV<sub>21</sub>, 4, 1, 0; 2014 MW<sub>21</sub>, 6, 2, 27; 2014 MX<sub>21</sub>, 6, 2, 53; 2014 MA<sub>22</sub>, 6, 2, 31; 2014 MB<sub>22</sub>, 7, 2, 24; 2014 MD<sub>22</sub>, 6, 2, 31; 2014 ME<sub>22</sub>, 10, 3, 38; 2014 MF<sub>22</sub>, 24, 6, 82; 2014 MG<sub>22</sub>, 14, 4, 1032; 2014 MH<sub>22</sub>, 4, 1, 0; 2014 MO<sub>22</sub>, 4, 1, 0; 2014 MP<sub>22</sub>, 8, 1, 0; 2014 MR<sub>22</sub>, 4, 1, 0; 2014 MS<sub>22</sub>, 10, 3, 985; 2014 MU<sub>22</sub>, 7, 2, 33; 2014 MA<sub>23</sub>, 14, 4, 83; 2014 MD<sub>23</sub>, 10, 3, 12; 2014 ME<sub>23</sub>, 20, 5, 86; 2014 MH<sub>23</sub>, 10, 3, 38; 2014 MK<sub>23</sub>, 7, 2, 10; 2014 MM<sub>23</sub>, 4, 1, 0; 2014 MO<sub>23</sub>, 10, 3, 1069; 2014 MW<sub>23</sub>, 6, 2, 2; 2014 MX<sub>23</sub>, 7, 2, 11; 2014 MY<sub>23</sub>, 11, 3, 7; 2014 MZ<sub>23</sub>, 4, 1, 0; 2014 ME<sub>24</sub>, 11, 3, 9; 2014 MF<sub>24</sub>, 7, 2, 1; 2014 MH<sub>24</sub>, 4, 1, 0; 2014 MJ<sub>24</sub>, 6, 2, 8; 2014 MK<sub>24</sub>, 8, 2, 1; 2014 ML<sub>24</sub>, 6, 2, 1; 2014 MN<sub>24</sub>, 8, 2, 1; 2014 MO<sub>24</sub>, 7, 2, 1; 2014 MP<sub>24</sub>, 21, 6, 553; 2014 MQ<sub>24</sub>, 12, 3, 9; 2014 MS<sub>24</sub>, 7, 2, 1; 2014 MU<sub>24</sub>, 18, 5, 11; 2014 MV<sub>24</sub>, 11, 3, 100; 2014 MY<sub>24</sub>, 7, 2, 8; 2014 MA<sub>25</sub>, 21, 6, 72; 2014 ME<sub>25</sub>, 3, 1, 0; 2014 MG<sub>25</sub>, 6, 2, 1; 2014 MH<sub>25</sub>, 23, 6, 66; 2014 MJ<sub>25</sub>, 3, 1, 0; 2014 MM<sub>25</sub>, 3, 1, 0; 2014 MO<sub>25</sub>, 12, 4, 56; 2014 MP<sub>25</sub>, 15, 4, 524; 2014 MR<sub>25</sub>, 4, 1, 0; 2014 MS<sub>25</sub>, 7, 2, 1; 2014 MT<sub>25</sub>, 4, 1, 0; 2014 MU<sub>25</sub>, 7, 2, 9; 2014 MV<sub>25</sub>, 4, 1, 0; 2014 MY<sub>25</sub>, 4, 1, 0; 2014 MZ<sub>25</sub>, 4, 1, 0; 2014 MA<sub>26</sub>, 4, 1, 0; 2014 MC<sub>26</sub>, 4, 1, 0; 2014 MD<sub>26</sub>, 4, 1, 0; 2014 ME<sub>26</sub>, 4, 1, 0; 2014 MF<sub>26</sub>, 8, 2, 1; 2014 MG<sub>26</sub>, 4, 1, 0; 2014 MH<sub>26</sub>, 7, 2, 1; 2014 MX<sub>26</sub>, 8, 2, 24; 2014 MN<sub>27</sub>, 7, 2, 1; 2014 MO<sub>27</sub>, 11, 2, 1; 2014 MD<sub>28</sub>, 4, 1, 0; 2014 ME<sub>28</sub>, 10, 3, 5; 2014 MF<sub>28</sub>, 11, 3, 11; 2014 MK<sub>28</sub>, 8, 2, 1; 2014 MT<sub>28</sub>, 12, 3, 2; 2014 MU<sub>28</sub>, 11, 3, 80; 2014 MV<sub>28</sub>, 4, 1, 0; 2014 MZ<sub>28</sub>, 4, 1, 0; 2014 MN<sub>29</sub>, 4, 1, 0; 2014 MO<sub>29</sub>, 4, 1, 0; 2014 MP<sub>29</sub>, 19, 4, 51; 2014 MS<sub>29</sub>, 10, 3, 58; 2014 MP<sub>30</sub>, 7, 2, 28; 2014 MT<sub>30</sub>, 8, 2, 19; 2014 MU<sub>30</sub>, 11, 3, 988; 2014 MW<sub>30</sub>, 9, 3, 80; 2014 MX<sub>30</sub>, 3, 1, 0; 2014 MY<sub>30</sub>, 3, 1, 0; 2014 MC<sub>31</sub>, 3, 1, 0; 2014 MD<sub>31</sub>, 12, 3, 2; 2014 MH<sub>31</sub>, 4, 1, 0; 2014 MK<sub>31</sub>, 12, 3, 5; 2014 ML<sub>31</sub>, 2, 1, 0; 2014 MN<sub>31</sub>, 17, 5, 985; 2014 MN<sub>31</sub>, 3, 1, 0; 2014 MO<sub>31</sub>, 4, 1, 0; 2014 MP<sub>31</sub>, 9, 2, 7; 2014 MQ<sub>31</sub>, 4, 1, 0; 2014 MR<sub>31</sub>, 11, 3, 12; 2014 MS<sub>31</sub>, 15, 3, 11; 2014 MT<sub>31</sub>, 8, 2, 11; 2014 MU<sub>31</sub>, 7, 2, 1; 2014 MV<sub>31</sub>, 3, 1, 0; 2014 MW<sub>31</sub>, 11, 3, 1067; 2014 MX<sub>31</sub>, 10, 2, 4; 2014 MZ<sub>31</sub>, 7, 2, 1; 2014 MA<sub>32</sub>, 11, 2, 5; 2014 MB<sub>32</sub>, 17, 5, 936; 2014 MJ<sub>32</sub>, 11, 3, 68; 2014 MK<sub>32</sub>, 18, 5, 1040; 2014 MO<sub>32</sub>, 3, 1, 0; 2014 MP<sub>32</sub>, 11, 3, 26; 2014 MQ<sub>32</sub>, 4, 1, 0; 2014 MR<sub>32</sub>, 16, 4, 53; 2014 MT<sub>32</sub>, 11, 3, 2; 2014 MV<sub>32</sub>, 4, 1, 0; 2014 MX<sub>32</sub>, 10, 2, 1; 2014 MY<sub>32</sub>, 11, 3, 2; 2014 MZ<sub>32</sub>, 14, 4, 47; 2014 MF<sub>34</sub>, 4, 1, 0; 2014 MG<sub>34</sub>, 10, 3, 24; 2014 MH<sub>34</sub>, 10, 3, 10; 2014 MO<sub>34</sub>, 3, 1, 0; 2014 MW<sub>34</sub>, 3, 1, 0; 2014 MX<sub>34</sub>, 4, 1, 0; 2014 MC<sub>35</sub>, 22, 6, 995; 2014 MO<sub>35</sub>, 15, 4, 79; 2014 MW<sub>35</sub>, 8, 3, 58; 2014 MX<sub>35</sub>, 6, 2, 13; 2014 MD<sub>36</sub>, 8, 2, 1; 2014 MF<sub>36</sub>, 4, 1, 0; 2014 MG<sub>36</sub>, 11, 4, 51; 2014 MH<sub>36</sub>, 6, 2, 13; 2014 MS<sub>36</sub>, 9, 3, 2; 2014 MT<sub>36</sub>, 8, 2, 9; 2014 MU<sub>36</sub>, 7, 2, 2; 2014 MV<sub>36</sub>, 11, 2, 11; 2014 MX<sub>36</sub>, 3, 1, 0; 2014 MA<sub>37</sub>, 10, 3, 11; 2014 MB<sub>37</sub>, 7, 2, 1; 2014 MC<sub>37</sub>, 4, 1, 0; 20



11, 3, 77; 2014 MT<sub>51</sub>, 10, 3, 103; 2014 MV<sub>51</sub>, 11, 3, 11; 2014 MZ<sub>51</sub>, 6, 2, 53; 2014 MG<sub>52</sub>, 5, 2, 1; 2014 ML<sub>52</sub>, 7, 2, 29; 2014 MQ<sub>52</sub>, 10, 3, 112; 2014 MR<sub>52</sub>, 8, 2, 1; 2014 MS<sub>52</sub>, 10, 3, 54; 2014 MU<sub>52</sub>, 4, 1, 0; 2014 MW<sub>52</sub>, 10, 3, 79; 2014 MX<sub>52</sub>, 7, 2, 1; 2014 MA<sub>53</sub>, 9, 3, 106; 2014 MC<sub>53</sub>, 22, 6, 88; 2014 MD<sub>53</sub>, 18, 5, 97; 2014 ME<sub>53</sub>, 4, 1, 0; 2014 MH<sub>53</sub>, 8, 2, 955; 2014 MK<sub>53</sub>, 12, 2, 11; 2014 MM<sub>53</sub>, 24, 6, 540; 2014 MP<sub>53</sub>, 11, 3, 88; 2014 MR<sub>53</sub>, 8, 3, 14; 2014 MV<sub>53</sub>, 11, 3, 61; 2014 MY<sub>53</sub>, 10, 3, 62; 2014 MZ<sub>53</sub>, 17, 5, 82; 2014 MC<sub>54</sub>, 11, 3, 60; 2014 MF<sub>54</sub>, 15, 4, 932; 2014 MK<sub>54</sub>, 10, 3, 82; 2014 MT<sub>54</sub>, 12, 2, 9; 2014 MU<sub>54</sub>, 4, 1, 0; 2014 MA<sub>55</sub>, 3, 1, 0; 2014 ME<sub>55</sub>, 8, 2, 1; 2014 MM<sub>55</sub>, 3, 1, 0; 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2014 MM<sub>58</sub>, 4, 1, 0; 2014 MU<sub>58</sub>, 15, 5, 97; 2014 MW<sub>58</sub>, 15, 4, 477; 2014 MB<sub>59</sub>, 4, 1, 0; 2014 MC<sub>59</sub>, 4, 1, 0; 2014 ME<sub>59</sub>, 7, 2, 45; 2014 MF<sub>59</sub>, 11, 3, 45; 2014 MG<sub>59</sub>, 9, 2, 1; 2014 MH<sub>59</sub>, 7, 2, 77; 2014 ML<sub>59</sub>, 8, 2, 45; 2014 MN<sub>59</sub>, 10, 3, 45; 2014 MO<sub>59</sub>, 10, 3, 45; 2014 MQ<sub>59</sub>, 10, 3, 5; 2014 MR<sub>59</sub>, 10, 3, 58; 2014 MS<sub>59</sub>, 14, 4, 533; 2014 MV<sub>59</sub>, 5, 2, 27; 2014 MB<sub>60</sub>, 7, 2, 20; 2014 MC<sub>60</sub>, 10, 3, 45; 2014 MF<sub>60</sub>, 8, 2, 44; 2014 MH<sub>60</sub>, 15, 4, 77; 2014 ML<sub>60</sub>, 3, 1, 0; 2014 MN<sub>60</sub>, 4, 1, 0; 2014 MO<sub>60</sub>, 3, 1, 0; 2014 MS<sub>60</sub>, 4, 1, 0; 2014 MT<sub>60</sub>, 4, 1, 0; 2014 MU<sub>60</sub>, 8, 2, 5; 2014 MZ<sub>60</sub>, 16, 4, 77; 2014 ME<sub>61</sub>, 8, 2, 1; 2014 MF<sub>61</sub>, 14, 4, 13; 2014 MG<sub>61</sub>, 18, 3, 10; 2014 MJ<sub>61</sub>, 8, 2, 9; 2014 MK<sub>61</sub>, 8, 2, 1; 2014 MM<sub>61</sub>, 10, 3, 9; 2014 MN<sub>61</sub>, 18, 5, 77; 2014 MO<sub>61</sub>, 4, 1, 0; 2014 MQ<sub>61</sub>, 4, 1, 0; 2014 MR<sub>61</sub>, 16, 3, 11; 2014 MS<sub>61</sub>, 6, 2, 11; 2014 MT<sub>61</sub>, 3, 1, 0; 2014 MV<sub>61</sub>, 7, 2, 9; 2014 MZ<sub>61</sub>, 15, 4, 24; 2014 MA<sub>62</sub>, 7, 2, 11; 2014 MC<sub>62</sub>, 10, 3, 5; 2014 MD<sub>62</sub>, 7, 2, 2; 2014 MJ<sub>62</sub>, 3, 1, 0; 2014 MK<sub>62</sub>, 10, 3, 5; 2014 ML<sub>62</sub>, 13, 4, 951; 2014 MM<sub>62</sub>, 13, 4, 27; 2014 MP<sub>62</sub>, 6, 2, 557; 2014 MQ<sub>62</sub>, 11, 3, 18; 2014 MR<sub>62</sub>, 8, 2, 1; 2014 MS<sub>62</sub>, 12, 3, 12; 2014 MT<sub>62</sub>, 8, 2, 9; 2014 MU<sub>62</sub>, 17, 5, 33; 2014 MV<sub>62</sub>, 20, 5, 925; 2014 MW<sub>62</sub>, 3, 1, 0; 2014 MY<sub>62</sub>, 30, 8, 925; 2014 MB<sub>63</sub>, 10, 3, 45; 2014 MD<sub>63</sub>, 6, 2, 11; 2014 ME<sub>63</sub>, 9, 3, 11; 2014 MF<sub>63</sub>, 20, 6, 30; 2014 MG<sub>63</sub>, 4, 1, 0; 2014 MN<sub>63</sub>, 3, 1, 0; 2014 MO<sub>63</sub>, 4, 1, 0; 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2014 ML<sub>65</sub>, 5, 2, 1; 2014 MT<sub>65</sub>, 3, 1, 0; 2014 MN<sub>65</sub>, 7, 2, 3; 2014 MP<sub>65</sub>, 11, 3, 3; 2014 MQ<sub>65</sub>, 8, 2, 1; 2014 MR<sub>65</sub>, 12, 4, 63; 2014 MS<sub>65</sub>, 6, 2, 510; 2014 MT<sub>65</sub>, 13, 4, 98; 2014 MJ<sub>66</sub>, 8, 2, 14; 2014 MR<sub>66</sub>, 13, 4, 85; 2014 NE<sub>66</sub>, 6, 2, 1; 2014 NJ<sub>66</sub>, 10, 3, 58; 2014 NL<sub>66</sub>, 8, 2, 1; 2014 NM<sub>66</sub>, 11, 3, 51; 2014 NO<sub>66</sub>, 12, 4, 59; 2014 NP<sub>66</sub>, 4, 1, 0; 2014 NQ<sub>66</sub>, 2, 1, 0; 2014 NU<sub>66</sub>, 7, 2, 1; 2014 NV<sub>66</sub>, 3, 1, 0; 2014 NY<sub>66</sub>, 6, 2, 7; 2014 NA<sub>17</sub>, 13, 5, 71; 2014 NB<sub>17</sub>, 2, 19; 2014 NH<sub>17</sub>, 13, 4, 70; 2014 NJ<sub>17</sub>, 12, 3, 26; 2014 NO<sub>17</sub>, 4, 1, 0; 2014 NQ<sub>17</sub>, 6, 2, 2; 2014 NY<sub>17</sub>, 15, 4, 971; 2014 NC<sub>2</sub>, 15, 4, 79; 2014 NE<sub>2</sub>, 14, 4, 79; 2014 NJ<sub>2</sub>, 8, 2, 1; 2014 NQ<sub>2</sub>, 8, 2, 1; 2014 NS<sub>2</sub>, 3, 1, 0; 2014 NY<sub>2</sub>, 7, 2, 502; 2014 NA<sub>3</sub>, 12, 3, 17; 2014 NC<sub>3</sub>, 11, 3, 2; 2014 NJ<sub>3</sub>, 3, 1, 0; 2014 NQ<sub>3</sub>, 6, 2, 8; 2014 NP<sub>3</sub>, 17, 4, 1068; 2014 NV<sub>4</sub>, 4, 1, 0; 2014 NE<sub>5</sub>, 3, 1, 0; 2014 NV<sub>5</sub>, 4, 1, 0; 2014 NU<sub>6</sub>, 13, 4, 55; 2014 NZ<sub>6</sub>, 6, 2, 18; 2014 NK<sub>7</sub>, 3, 1, 0; 2014 NQ<sub>7</sub>, 4, 1, 0; 2014 NY<sub>7</sub>, 3, 1, 0; 2014 ND<sub>8</sub>, 3, 1, 0; 2014 NY<sub>8</sub>, 3, 1, 0; 2014 NL<sub>9</sub>, 3, 1, 0; 2014 NT<sub>9</sub>, 17, 5, 529; 2014 ND<sub>10</sub>, 7, 2, 14; 2014 NL<sub>10</sub>, 6, 2, 37; 2014 NS<sub>11</sub>, 12, 3, 445; 2014 NT<sub>11</sub>, 3, 1, 0; 2014 NY<sub>11</sub>, 3, 1, 0; 2014 ND<sub>12</sub>, 3, 1, 0; 2014 NE<sub>12</sub>, 11, 3, 72; 2014 NH<sub>12</sub>, 12, 4, 1024; 2014 NM<sub>12</sub>, 2, 1, 0; 2014 NV<sub>12</sub>, 4, 1, 0; 2014 NW<sub>12</sub>, 14, 4, 985; 2014 NO<sub>13</sub>, 9, 3, 63; 2014 NK<sub>14</sub>, 10, 3, 27; 2014 NB<sub>16</sub>, 4, 1, 0; 2014 NC<sub>16</sub>, 8, 2, 32; 2014 ND<sub>16</sub>, 10, 3, 7; 2014 NE<sub>16</sub>, 19, 5, 883; 2014 NF<sub>16</sub>, 8, 2, 1; 2014 NG<sub>16</sub>, 4, 1, 0; 2014 NH<sub>16</sub>, 4, 1, 0; 2014 NK<sub>16</sub>, 6, 2, 45; 2014 NM<sub>16</sub>, 5, 2, 1; 2014 NP<sub>16</sub>, 19, 4, 66; 2014 NQ<sub>16</sub>, 8, 2, 59; 2014 NR<sub>16</sub>, 18, 4, 68; 2014 NS<sub>16</sub>, 12, 3, 27; 2014 NU<sub>16</sub>, 19, 5, 103; 2014 NV<sub>16</sub>, 4, 1, 0; 2014 NW<sub>16</sub>, 22, 6, 101; 2014 NA<sub>17</sub>, 20, 5, 101; 2014 NB<sub>17</sub>, 7, 2, 8; 2014 ND<sub>17</sub>, 18, 5, 101; 2014 NE<sub>17</sub>, 11, 3, 27; 2014 NH<sub>17</sub>, 7, 2, 19; 2014 NO<sub>17</sub>, 7, 2, 61; 2014 NU<sub>17</sub>, 3, 1, 0; 2014 NZ<sub>17</sub>, 6, 2, 20; 2014 NB<sub>18</sub>, 17, 5, 81; 2014 NH<sub>18</sub>, 28, 7, 100; 2014 NL<sub>18</sub>, 4, 1, 0; 2014 NM<sub>18</sub>, 15, 3, 51; 2014 NQ<sub>18</sub>, 9, 3, 64; 2014 NT<sub>18</sub>, 8, 2, 1; 2014 NX<sub>18</sub>, 10, 3, 45; 2014 NY<sub>18</sub>, 4, 1, 0; 2014 NZ<sub>18</sub>, 4, 1, 0; 2014 NA<sub>19</sub>, 11, 3, 5; 2014 NC<sub>19</sub>, 7, 2, 45; 2014 ND<sub>19</sub>, 13, 4, 93; 2014 NH<sub>19</sub>, 8, 1, 0; 2014 NJ<sub>19</sub>, 7, 2, 1; 2014 NK<sub>19</sub>, 8, 2, 1; 2014 NL<sub>19</sub>, 9, 3, 45; 2014 NM<sub>19</sub>, 12, 3, 45; 2014 NP<sub>19</sub>, 10, 3, 45; 2014 NQ<sub>19</sub>, 4, 1, 0; 2014 NR<sub>19</sub>, 14, 4, 79; 2014 NU<sub>19</sub>, 4, 1, 0; 2014 NA<sub>20</sub>, 10, 3, 79; 2014 NC<sub>20</sub>, 12, 4, 53; 2014 NE<sub>20</sub>, 9, 2, 1; 2014 NF<sub>20</sub>, 17, 5, 533; 2014 NH<sub>20</sub>, 10, 3, 77; 2014 NL<sub>20</sub>, 9, 3, 76; 2014 NU<sub>20</sub>, 13, 4, 79; 2014 NV<sub>20</sub>, 10, 3, 80; 2014 NA<sub>21</sub>, 10, 3, 80; 2014 ND<sub>21</sub>, 7, 2, 34; 2014 NE<sub>21</sub>, 5, 2, 1; 2014 NH<sub>21</sub>, 8, 2, 1; 2014 NJ<sub>21</sub>, 5, 2, 1; 2014 NK<sub>21</sub>, 12, 3, 45; 2014 NO<sub>21</sub>, 8, 2, 2; 2014 NP<sub>21</sub>, 6, 2, 59; 2014 NQ<sub>21</sub>, 8, 2, 2; 2014 NB<sub>22</sub>, 3, 1, 0; 2014 NC<sub>22</sub>, 3, 1, 0; 2014 ND<sub>22</sub>, 4, 1, 0; 2014 NE<sub>22</sub>, 11, 3, 100; 2014 NF<sub>22</sub>, 7, 2, 46; 2014 NG<sub>22</sub>, 3, 1, 0; 2014 NH<sub>22</sub>, 15, 5, 1072; 2014 NM<sub>25</sub>, 6, 2, 5; 2014 NY<sub>25</sub>, 4, 1, 0; 2014 NR<sub>25</sub>, 6, 2, 99; 2014 NZ<sub>26</sub>, 4, 1, 0; 2014 NJ<sub>26</sub>, 12, 3, 100; 2014 NS<sub>26</sub>, 4, 1, 0; 2014 NT<sub>26</sub>, 4, 1, 0; 2014 NX<sub>26</sub>, 4, 1, 0; 2014 NH<sub>27</sub>, 4, 1, 0; 2014 NK<sub>27</sub>, 7, 2, 12; 2014 NN<sub>27</sub>, 7, 2, 5; 2014 NQ<sub>27</sub>, 4, 1, 0; 2014 NY<sub>27</sub>, 9, 3, 46; 2014 NZ<sub>27</sub>, 3,

1, 0; 2014 NM<sub>28</sub>, 8, 2, 4; 2014 NN<sub>28</sub>, 4, 1, 0; 2014 NP<sub>28</sub>, 7, 2, 2; 2014 NT<sub>28</sub>, 6, 2, 2; 2014 NV<sub>28</sub>, 7, 2, 12; 2014 NX<sub>28</sub>, 12, 3, 11; 2014 NY<sub>28</sub>, 8, 2, 9; 2014 NA<sub>29</sub>, 4, 1, 0; 2014 ND<sub>29</sub>, 4, 1, 0; 2014 NF<sub>29</sub>, 6, 2, 9; 2014 NG<sub>29</sub>, 13, 4, 48; 2014 NH<sub>29</sub>, 3, 1, 0; 2014 NK<sub>29</sub>, 21, 4, 18; 2014 NL<sub>29</sub>, 4, 1, 0; 2014 NN<sub>29</sub>, 20, 5, 31; 2014 NP<sub>29</sub>, 8, 2, 4; 2014 NR<sub>29</sub>, 8, 2, 6; 2014 NS<sub>29</sub>, 14, 3, 11; 2014 NT<sub>29</sub>, 6, 2, 9; 2014 NU<sub>29</sub>, 4, 1, 0; 2014 NB<sub>30</sub>, 2, 1, 0; 2014 ND<sub>30</sub>, 7, 1, 0; 2014 NE<sub>30</sub>, 3, 1, 0; 2014 NF<sub>30</sub>, 11, 3, 24; 2014 NG<sub>30</sub>, 12, 3, 5; 2014 NH<sub>30</sub>, 4, 1, 0; 2014 NJ<sub>30</sub>, 8, 2, 5; 2014 NN<sub>30</sub>, 11, 3, 11; 2014 NO<sub>30</sub>, 14, 4, 24; 2014 NP<sub>30</sub>, 11, 3, 79; 2014 NQ<sub>30</sub>, 13, 4, 18; 2014 NT<sub>30</sub>, 10, 2, 11; 2014 NU<sub>30</sub>, 4, 1, 0; 2014 NW<sub>30</sub>, 8, 2, 4; 2014 NX<sub>30</sub>, 3, 1, 0; 2014 NY<sub>30</sub>, 10, 3, 18; 2014 NZ<sub>30</sub>, 7, 2, 4; 2014 NB<sub>31</sub>, 4, 1, 0; 2014 NC<sub>31</sub>, 9, 3, 11; 2014 ND<sub>31</sub>, 12, 3, 11; 2014 NE<sub>31</sub>, 6, 2, 2; 2014 NF<sub>31</sub>, 11, 3, 472; 2014 NG<sub>31</sub>, 8, 2, 7; 2014 NH<sub>31</sub>, 2, 1, 0; 2014 NK<sub>31</sub>, 10, 3, 11; 2014 NL<sub>31</sub>, 15, 4, 24; 2014 NN<sub>31</sub>, 8, 2, 9; 2014 NO<sub>31</sub>, 13, 3, 11; 2014 NP<sub>31</sub>, 4, 1, 0; 2014 NQ<sub>31</sub>, 3, 1, 0; 2014 NR<sub>31</sub>, 7, 2, 4; 2014 NS<sub>31</sub>, 12, 3, 11; 2014 NE<sub>32</sub>, 4, 1, 0; 2014 NQ<sub>32</sub>, 4, 1, 0; 2014 NT<sub>32</sub>, 7, 2, 1; 2014 NA<sub>33</sub>, 11, 3, 504; 2014 NB<sub>33</sub>, 7, 2, 12; 2014 NE<sub>33</sub>, 7, 2, 12; 2014 NG<sub>33</sub>, 8, 2, 3; 2014 NH<sub>33</sub>, 8, 2, 1; 2014 NL<sub>33</sub>, 10, 3, 5; 2014 NO<sub>33</sub>, 7, 2, 5; 2014 NP<sub>33</sub>, 13, 3, 1033; 2014 NQ<sub>33</sub>, 5, 2, 9; 2014 NR<sub>33</sub>, 7, 2, 1; 2014 NT<sub>33</sub>, 12, 2, 9; 2014 NU<sub>33</sub>, 11, 3, 5; 2014 NV<sub>33</sub>, 8, 2, 11; 2014 NY<sub>33</sub>, 6, 2, 11; 2014 NC<sub>34</sub>, 9, 3, 23; 2014 ND<sub>34</sub>, 4, 1, 0; 2014 NE<sub>34</sub>, 4, 1, 0; 2014 NK<sub>34</sub>, 7, 2, 10; 2014 NQ<sub>34</sub>, 15, 4, 28; 2014 NW<sub>34</sub>, 6, 2, 1; 2014 NC<sub>35</sub>, 3, 1, 0; 2014 NH<sub>35</sub>, 8, 2, 1; 2014 NM<sub>35</sub>, 4, 1, 0; 2014 NW<sub>35</sub>, 7, 2, 33; 2014 NX<sub>35</sub>, 14, 4, 13; 2014 NY<sub>35</sub>, 11, 3, 60; 2014 NZ<sub>36</sub>, 7, 2, 1; 2014 NT<sub>36</sub>, 16, 4, 35; 2014 NU<sub>36</sub>, 10, 3, 9; 2014 NZ<sub>36</sub>, 11, 3, 77; 2014 NA<sub>37</sub>, 18, 5, 13; 2014 ND<sub>37</sub>, 7, 2, 1; 2014 NE<sub>37</sub>, 9, 3, 81; 2014 NF<sub>37</sub>, 12, 2, 55; 2014 NG<sub>37</sub>, 7, 2, 1; 2014 NJ<sub>37</sub>, 3, 1, 0; 2014 NK<sub>37</sub>, 15, 4, 993; 2014 NL<sub>37</sub>, 7, 2, 1; 2014 NM<sub>37</sub>, 6, 2, 1; 2014 NN<sub>37</sub>, 11, 3, 56; 2014 NP<sub>37</sub>, 7, 2, 72; 2014 NQ<sub>37</sub>, 10, 2, 58; 2014 NR<sub>37</sub>, 3, 1, 0; 2014 NT<sub>37</sub>, 7, 2, 13; 2014 NW<sub>37</sub>, 7, 2, 13; 2014 NZ<sub>37</sub>, 7, 2, 13; 2014 NC<sub>38</sub>, 10, 2, 8; 2014 ND<sub>38</sub>, 5, 2, 18; 2014 NE<sub>38</sub>, 20, 5, 853; 2014 NJ<sub>38</sub>, 27, 7, 134; 2014 NK<sub>38</sub>, 6, 2, 1; 2014 NO<sub>38</sub>, 4, 1, 0; 2014 NS<sub>38</sub>, 3, 1, 0; 2014 NU<sub>38</sub>, 7, 2, 1; 2014 NY<sub>38</sub>, 9, 3, 5; 2014 NC<sub>39</sub>, 4, 1, 0; 2014 NG<sub>39</sub>, 15, 4, 105; 2014 NH<sub>39</sub>, 11, 3, 77; 2014 NM<sub>39</sub>, 8, 2, 1; 2014 NN<sub>39</sub>, 7, 2, 1; 2014 NO<sub>39</sub>, 12, 3, 77; 2014 NT<sub>39</sub>, 24, 7, 83; 2014 NX<sub>39</sub>, 6, 2, 1; 2014 NY<sub>39</sub>, 8, 2, 1; 2014 NA<sub>40</sub>, 11, 3, 533; 2014 ND<sub>40</sub>, 7, 2, 1; 2014 NF<sub>40</sub>, 6, 2, 1; 2014 NH<sub>40</sub>, 7, 2, 76; 2014 NM<sub>40</sub>, 4, 1, 0; 2014 NP<sub>40</sub>, 7, 2, 1; 2014 NT<sub>40</sub>, 11, 3, 79; 2014 NV<sub>40</sub>, 6, 2, 1; 2014 NF<sub>41</sub>, 7, 2, 1; 2014 NH<sub>41</sub>, 6, 2, 1; 2014 NK<sub>41</sub>, 7, 2, 1; 2014 NM<sub>41</sub>, 10, 3, 79; 2014 NO<sub>41</sub>, 12, 4, 106; 2014 NQ<sub>41</sub>, 7, 2, 1; 2014 NS<sub>41</sub>, 6, 2, 1; 2014 NV<sub>41</sub>, 8, 2, 1; 2014 NX<sub>41</sub>, 7, 2, 1; 2014 NB<sub>42</sub>, 7, 2, 1; 2014 NC<sub>42</sub>, 10, 3, 106; 2014 NH<sub>42</sub>, 7, 2, 1; 2014 NN<sub>42</sub>, 11, 3, 77; 2014 NV<sub>42</sub>, 8, 2, 1; 2014 NA<sub>43</sub>, 7, 2, 104; 2014 NM<sub>43</sub>, 10, 3, 79; 2014 NN<sub>43</sub>, 8, 2, 1; 2014 NQ<sub>43</sub>, 8, 3, 21; 2014 NT<sub>43</sub>, 9, 3, 77; 2014 NV<sub>43</sub>, 10, 3, 77; 2014 NY<sub>43</sub>, 14, 4, 105; 2014 NZ<sub>43</sub>, 10, 3, 79; 2014 NA<sub>44</sub>, 11, 3, 77; 2014 NC<sub>44</sub>, 10, 3, 865; 2014 ND<sub>44</sub>, 10, 3, 100; 2014 NF<sub>44</sub>, 11, 3, 79; 2014 NG<sub>44</sub>, 6, 2, 1; 2014 NH<sub>44</sub>, 4, 1, 0; 2014 NJ<sub>44</sub>, 14, 3, 79; 2014 NK<sub>44</sub>, 11, 3, 77; 2014 NM<sub>44</sub>, 11, 3, 77; 2014 NN<sub>44</sub>, 4, 1, 0; 2014 NA<sub>45</sub>, 8, 2, 12; 2014 NP<sub>44</sub>, 8, 2, 1; 2014 NQ<sub>44</sub>, 8, 2, 1; 2014 NR<sub>44</sub>, 7, 2, 1; 2014 NT<sub>44</sub>, 7, 2, 1; 2014 NZ<sub>44</sub>, 12, 3, 3; 2014 NE<sub>45</sub>, 12, 3, 77; 2014 NF<sub>45</sub>, 10, 3, 77; 2014 NG<sub>45</sub>, 6, 2, 1; 2014 NH<sub>45</sub>, 21, 6, 942; 2014 NN<sub>45</sub>, 3, 1, 0; 2014 NO<sub>45</sub>, 7, 2, 1; 2014 NP<sub>45</sub>, 13, 4, 77; 2014 NQ<sub>45</sub>, 3, 1, 0; 2014 NR<sub>45</sub>, 8, 2, 2; 2014 NS<sub>45</sub>, 20, 5, 80; 2014 NT<sub>45</sub>, 12, 3, 11; 2014 NV<sub>45</sub>, 3, 1, 0; 2014 NB<sub>46</sub>, 6, 2, 1; 2014 NC<sub>46</sub>, 7, 2, 1; 2014 ND<sub>46</sub>, 10, 2, 1; 2014 NE<sub>46</sub>, 7, 2, 1; 2014 NF<sub>46</sub>, 11, 3, 47; 2014 NG<sub>46</sub>, 8, 2, 1; 2014 NH<sub>46</sub>, 11, 3, 10; 2014 NK<sub>46</sub>, 10, 3, 11; 2014 NL<sub>46</sub>, 13, 4, 11; 2014 NQ<sub>46</sub>, 14, 3, 103; 2014 NV<sub>46</sub>, 16, 3, 77; 2014 NX<sub>46</sub>, 7, 2, 1; 2014 NC<sub>47</sub>, 8, 2, 1; 2014 NF<sub>47</sub>, 6, 2, 1; 2014 NP<sub>47</sub>, 7, 2, 1; 2014 NQ<sub>47</sub>, 3, 1, 0; 2014 NS<sub>47</sub>, 6, 2, 1; 2014 NY<sub>47</sub>, 11, 3, 5; 2014 NB<sub>48</sub>, 3, 1, 0; 2014 ND<sub>48</sub>, 7, 2, 1; 2014 NG<sub>48</sub>, 12, 3, 413; 2014 NJ<sub>48</sub>, 8, 2, 1; 2014 NQ<sub>48</sub>, 8, 2, 1; 2014 NR<sub>48</sub>, 8, 2, 1; 2014 NS<sub>48</sub>, 7, 2, 1; 2014 NU<sub>48</sub>, 15, 4, 104; 2014 NV<sub>48</sub>, 8, 2, 1; 2014 NZ<sub>49</sub>, 12,



8, 2, 22; 2014 NN<sub>58</sub>, 7, 1, 0; 2014 NU<sub>58</sub>, 8, 2, 1; 2014 NV<sub>58</sub>, 14, 4, 83; 2014 NW<sub>58</sub>, 6, 2, 11; 2014 NX<sub>58</sub>, 10, 3, 506; 2014 NY<sub>58</sub>, 9, 3, 13; 2014 NA<sub>59</sub>, 7, 2, 1; 2014 NB<sub>59</sub>, 13, 4, 77; 2014 NC<sub>59</sub>, 16, 4, 77; 2014 ND<sub>59</sub>, 11, 3, 56; 2014 NE<sub>59</sub>, 3, 1, 0; 2014 NF<sub>59</sub>, 15, 4, 13; 2014 NH<sub>59</sub>, 4, 1, 0; 2014 NJ<sub>59</sub>, 4, 1, 0; 2014 NK<sub>59</sub>, 3, 1, 0; 2014 NM<sub>59</sub>, 10, 3, 13; 2014 NO<sub>59</sub>, 7, 2, 41; 2014 NP<sub>59</sub>, 16, 4, 1037; 2014 NQ<sub>59</sub>, 23, 7, 596; 2014 NR<sub>59</sub>, 4, 1, 0; 2014 NS<sub>59</sub>, 8, 2, 13; 2014 NU<sub>59</sub>, 2, 1, 0; 2014 NV<sub>59</sub>, 8, 2, 538; 2014 NW<sub>59</sub>, 7, 2, 7; 2014 NX<sub>59</sub>, 10, 3, 426; 2014 NZ<sub>59</sub>, 7, 2, 13; 2014 NE<sub>60</sub>, 4, 1, 0; 2014 NF<sub>60</sub>, 3, 1, 0; 2014 NG<sub>60</sub>, 3, 1, 0; 2014 NJ<sub>60</sub>, 4, 1, 0; 2014 NK<sub>60</sub>, 4, 1, 0; 2014 NL<sub>60</sub>, 4, 2, 13; 2014 NM<sub>60</sub>, 8, 2, 5; 2014 NO<sub>60</sub>, 4, 1, 0; 2014 NP<sub>60</sub>, 19, 4, 30; 2014 NQ<sub>60</sub>, 18, 5, 1037; 2014 NR<sub>60</sub>, 7, 2, 22; 2014 NS<sub>60</sub>, 4, 1, 0; 2014 NU<sub>60</sub>, 7, 2, 22; 2014 NL<sub>61</sub>, 3, 1, 0; 2014 NN<sub>61</sub>, 9, 3, 48; 2014 NT<sub>61</sub>, 7, 2, 28; 2014 NW<sub>61</sub>, 6, 2, 495; 2014 NY<sub>61</sub>, 6, 2, 1; 2014 NZ<sub>61</sub>, 7, 2, 1; 2014 NC<sub>62</sub>, 3, 1, 0; 2014 ND<sub>62</sub>, 6, 2, 1; 2014 NF<sub>62</sub>, 3, 1, 0; 2014 NG<sub>62</sub>, 7, 2, 10; 2014 NJ<sub>62</sub>, 20, 6, 1293; 2014 NK<sub>62</sub>, 20, 6, 64; 2014 NL<sub>62</sub>, 15, 4, 35; 2014 NP<sub>62</sub>, 7, 2, 478; 2014 NQ<sub>62</sub>, 11, 3, 20; 2014 NR<sub>62</sub>, 7, 2, 29; 2014 NS<sub>62</sub>, 7, 2, 31; 2014 NT<sub>62</sub>, 3, 1, 0; 2014 NY<sub>62</sub>, 6, 2, 1; 2014 NZ<sub>62</sub>, 14, 4, 56; 2014 NE<sub>63</sub>, 4, 1, 0; 2014 NF<sub>63</sub>, 10, 3, 12; 2014 NR<sub>63</sub>, 3, 1, 0; 2014 NT<sub>63</sub>, 4, 1, 0; 2014 NU<sub>63</sub>, 4, 1, 0; 2014 NZ<sub>63</sub>, 3, 1, 0; 2014 NA<sub>64</sub>, 9, 3, 5; 2014 ND<sub>64</sub>, 3, 1, 0; 2014 NF<sub>64</sub>, 4, 1, 0; 2014 NE<sub>64</sub>, 6, 2, 1; 2014 NN<sub>64</sub>, 4, 1, 0; 2014 NY<sub>64</sub>, 4, 1, 0; 2014 NZ<sub>64</sub>, 4, 1, 0; 2014 NC<sub>65</sub>, 10, 2, 3; 2014 ND<sub>65</sub>, 10, 3, 995; 2014 NE<sub>65</sub>, 8, 2, 1; 2014 OB<sub>3</sub>, 1, 0; 2014 OD<sub>3</sub>, 9, 3, 74; 2014 OE<sub>3</sub>, 12, 3, 112; 2014 OF<sub>3</sub>, 8, 3, 97; 2014 OH<sub>3</sub>, 16, 4, 51; 2014 OJ<sub>3</sub>, 7, 2, 48; 2014 OO<sub>3</sub>, 4, 1, 0; 2014 OQ<sub>3</sub>, 8, 2, 9; 2014 OR<sub>3</sub>, 7, 2, 46; 2014 OS<sub>3</sub>, 15, 4, 14; 2014 OT<sub>3</sub>, 9, 3, 82; 2014 OZ<sub>3</sub>, 8, 2, 2; 2014 OA<sub>1</sub>, 10, 3, 52; 2014 OC<sub>1</sub>, 7, 2, 9; 2014 OD<sub>1</sub>, 7, 2, 1; 2014 OE<sub>1</sub>, 12, 3, 55; 2014 OF<sub>1</sub>, 8, 2, 18; 2014 OH<sub>1</sub>, 4, 1, 0; 2014 OJ<sub>1</sub>, 6, 2, 1; 2014 OL<sub>1</sub>, 7, 2, 1; 2014 ON<sub>1</sub>, 7, 2, 11; 2014 OO<sub>1</sub>, 22, 6, 55; 2014 OP<sub>1</sub>, 10, 2, 17; 2014 OQ<sub>1</sub>, 8, 2, 1; 2014 OR<sub>1</sub>, 5, 2, 65; 2014 OS<sub>1</sub>, 7, 2, 1; 2014 OU<sub>1</sub>, 5, 2, 50; 2014 OV<sub>1</sub>, 6, 2, 10; 2014 OW<sub>1</sub>, 11, 3, 60; 2014 OA<sub>2</sub>, 4, 1, 0; 2014 OB<sub>2</sub>, 8, 2, 1; 2014 OD<sub>2</sub>, 13, 4, 499; 2014 OF<sub>2</sub>, 16, 4, 13; 2014 OG<sub>2</sub>, 8, 2, 1; 2014 OH<sub>2</sub>, 8, 2, 14; 2014 OK<sub>2</sub>, 15, 4, 105; 2014 OM<sub>2</sub>, 17, 5, 77; 2014 ON<sub>2</sub>, 22, 6, 987; 2014 OO<sub>2</sub>, 8, 2, 1; 2014 OR<sub>2</sub>, 4, 1, 0; 2014 OU<sub>2</sub>, 6, 2, 10; 2014 OV<sub>2</sub>, 15, 4, 12; 2014 OX<sub>2</sub>, 7, 2, 14; 2014 OB<sub>3</sub>, 10, 3, 50; 2014 OC<sub>3</sub>, 12, 3, 55; 2014 OD<sub>3</sub>, 4, 1, 0; 2014 OE<sub>3</sub>, 31, 8, 510; 2014 OG<sub>3</sub>, 14, 4, 74; 2014 OK<sub>3</sub>, 17, 5, 501; 2014 OL<sub>3</sub>, 19, 4, 11; 2014 OM<sub>3</sub>, 13, 4, 59; 2014 ON<sub>3</sub>, 10, 3, 70; 2014 OO<sub>3</sub>, 12, 3, 501; 2014 OR<sub>3</sub>, 4, 1, 0; 2014 OU<sub>3</sub>, 4, 1, 0; 2014 OV<sub>3</sub>, 3, 1, 0; 2014 OZ<sub>3</sub>, 4, 1, 0; 2014 OA<sub>4</sub>, 4, 1, 0; 2014 OB<sub>4</sub>, 4, 1, 0; 2014 OH<sub>4</sub>, 3, 1, 0; 2014 OJ<sub>4</sub>, 7, 2, 5; 2014 OK<sub>4</sub>, 15, 4, 84; 2014 OL<sub>4</sub>, 11, 3, 48; 2014 OM<sub>4</sub>, 16, 5, 80; 2014 ON<sub>4</sub>, 3, 1, 0; 2014 OO<sub>4</sub>, 7, 2, 1; 2014 OQ<sub>4</sub>, 8, 1, 0; 2014 OR<sub>4</sub>, 4, 1, 0; 2014 OS<sub>4</sub>, 22, 6, 945; 2014 OV<sub>4</sub>, 11, 3, 82; 2014 OY<sub>4</sub>, 4, 1, 0; 2014 OZ<sub>4</sub>, 4, 1, 0; 2014 OB<sub>5</sub>, 3, 1, 0; 2014 OC<sub>5</sub>, 8, 2, 29; 2014 OE<sub>5</sub>, 18, 3, 55; 2014 OH<sub>5</sub>, 13, 4, 7; 2014 OJ<sub>5</sub>, 22, 6, 68; 2014 OK<sub>5</sub>, 23, 6, 58; 2014 OL<sub>5</sub>, 18, 5, 81; 2014 ON<sub>5</sub>, 14, 4, 71; 2014 OO<sub>5</sub>, 11, 3, 12; 2014 OP<sub>5</sub>, 7, 2, 9; 2014 OQ<sub>5</sub>, 10, 3, 40; 2014 OR<sub>5</sub>, 3, 1, 0; 2014 OS<sub>5</sub>, 3, 1, 0; 2014 OV<sub>5</sub>, 12, 3, 57; 2014 OW<sub>5</sub>, 18, 5, 564; 2014 OX<sub>5</sub>, 14, 4, 54; 2014 OY<sub>5</sub>, 4, 1, 0; 2014 OB<sub>6</sub>, 21, 6, 548; 2014 OC<sub>6</sub>, 11, 3, 13; 2014 OE<sub>6</sub>, 3, 1, 0; 2014 OG<sub>6</sub>, 19, 6, 485; 2014 OH<sub>6</sub>, 7, 2, 1; 2014 OJ<sub>6</sub>, 14, 3, 25; 2014 OK<sub>6</sub>, 11, 2, 2; 2014 OL<sub>6</sub>, 4, 1, 0; 2014 OM<sub>6</sub>, 11, 3, 77; 2014 ON<sub>6</sub>, 21, 6, 74; 2014 OO<sub>6</sub>, 3, 1, 0; 2014 OR<sub>6</sub>, 4, 1, 0; 2014 OT<sub>6</sub>, 21, 6, 64; 2014 OW<sub>6</sub>, 11, 2, 2; 2014 OX<sub>6</sub>, 11, 3, 11; 2014 OY<sub>6</sub>, 3, 1, 0; 2014 OZ<sub>6</sub>, 11, 3, 52; 2014 OH<sub>8</sub>, 23, 6, 113; 2014 OM<sub>8</sub>, 7, 2, 8; 2014 OO<sub>8</sub>, 3, 1, 0; 2014 OP<sub>8</sub>, 14, 4, 44; 2014 OR<sub>8</sub>, 3, 1, 0; 2014 OY<sub>8</sub>, 7, 2, 55; 2014 OA<sub>9</sub>, 3, 1, 0; 2014 OE<sub>9</sub>, 3, 1, 0; 2014 OG<sub>9</sub>, 13, 50; 2014 OB<sub>10</sub>, 7, 2, 1; 2014 OC<sub>11</sub>, 12, 3, 40; 2014 ON<sub>11</sub>, 7, 2, 1; 2014 OY<sub>11</sub>, 10, 3, 63; 2014 OZ<sub>11</sub>, 8, 2, 8; 2014 OA<sub>12</sub>, 3, 1, 0; 2014 OB<sub>12</sub>, 16, 5, 1081; 2014 OD<sub>12</sub>, 3, 1, 0; 2014 ON<sub>12</sub>, 4, 1, 0; 2014 OP<sub>12</sub>, 3, 1, 0; 2014 OQ<sub>12</sub>, 4, 1, 0; 2014 OS<sub>12</sub>, 3, 1, 0; 2014 OU<sub>12</sub>, 16, 3, 58; 2014 OV<sub>12</sub>, 22, 5, 468; 2014 OY<sub>12</sub>, 24, 7, 111; 2014 OB<sub>13</sub>, 14, 4, 63; 2014 OD<sub>13</sub>, 2, 1, 0; 2014 ON<sub>13</sub>, 8, 2, 7; 2014 OP<sub>13</sub>, 13, 4, 952; 2014 OV<sub>13</sub>, 15, 4, 14; 2014 OY<sub>13</sub>, 4, 1, 0; 2014 OC<sub>14</sub>, 4, 1, 0; 2014 OE<sub>14</sub>, 3, 1, 0; 2014 OF<sub>14</sub>, 7, 2, 14; 2014 OG<sub>14</sub>, 3, 1, 0; 2014 OJ<sub>14</sub>, 8, 2, 1; 2014 OL<sub>14</sub>, 27, 7, 83; 2014 ON<sub>14</sub>, 11, 2, 13; 2014 OO<sub>14</sub>, 4, 1, 0; 2014 OR<sub>14</sub>, 6, 2, 1; 2014 OT<sub>14</sub>, 3, 1, 0; 2014 OU<sub>14</sub>, 3, 1, 0; 2014 OV<sub>14</sub>, 7, 2, 13; 2014 OY<sub>14</sub>, 12, 3, 57; 2014 OA<sub>15</sub>, 34, 9, 1040; 2014 OB<sub>15</sub>, 3, 1, 0; 2014 OD<sub>15</sub>, 11, 3, 14; 2014 OE<sub>15</sub>, 3, 1, 0; 2014 OK<sub>15</sub>, 8, 2, 10; 2014 OM<sub>15</sub>, 3, 1, 0; 2014 OP<sub>15</sub>, 16, 4, 73; 2014 OS<sub>15</sub>, 3, 1, 0; 2014 OT<sub>15</sub>, 7, 2, 11; 2014 OU<sub>15</sub>, 8, 2, 9; 2014 OX<sub>15</sub>, 3, 1, 0; 2014 OY<sub>15</sub>, 7, 2, 49; 2014 OZ<sub>15</sub>, 3, 1, 0; 2014 OA<sub>16</sub>, 15, 4, 13; 2014 OB<sub>16</sub>, 18, 5, 84; 2014 OF<sub>16</sub>, 6, 2, 36; 2014 OJ<sub>16</sub>, 3, 1, 0; 2014 OK<sub>16</sub>, 6, 2, 43; 2014 OM<sub>16</sub>, 24, 6, 100; 2014 ON<sub>16</sub>, 4, 1, 0; 2014 OO<sub>16</sub>, 8, 2, 14; 2014 OR<sub>16</sub>, 8, 2, 2; 2014 OS<sub>16</sub>, 3, 1, 0; 2014 OV<sub>16</sub>, 8, 2, 44; 2014 OW<sub>16</sub>, 3, 1, 0; 2014 OX<sub>16</sub>, 14, 4, 56; 2014 OY<sub>16</sub>, 4, 1, 0; 2014 OB<sub>17</sub>, 3, 1, 0; 2014 OD<sub>17</sub>, 3, 1, 0; 2014 OF<sub>17</sub>, 10, 3, 42; 2014 OG<sub>17</sub>, 3, 1, 0; 2014 OJ<sub>17</sub>, 15, 4, 14; 2014 OK<sub>17</sub>, 4, 1, 0; 2014 OL<sub>17</sub>, 13, 4, 14; 2014 ON<sub>17</sub>, 7, 2, 22; 2014 OO<sub>17</sub>, 3, 1, 0; 2014 OZ<sub>17</sub>, 4, 1, 0; 2014 OA<sub>18</sub>, 3, 1, 0; 2014 OB<sub>18</sub>, 11, 3, 14; 2014 OC<sub>18</sub>, 15, 4, 66; 2014 OD<sub>18</sub>, 18, 5, 63; 2014 OJ<sub>18</sub>, 3, 1, 0; 2014 OK<sub>18</sub>, 2, 1, 0; 2014 OM<sub>18</sub>, 10, 3, 57; 2014 OO<sub>18</sub>, 3, 1, 0; 2014 OR<sub>18</sub>, 8, 2, 2; 2014 OS<sub>18</sub>, 4, 1, 0; 2014 OT<sub>18</sub>, 4, 1, 0; 2014 OX<sub>18</sub>, 3, 1, 0; 2014 OY<sub>18</sub>, 16, 4, 505; 2014 OZ<sub>18</sub>, 4, 1, 0; 2014 OA<sub>19</sub>, 7, 2, 925; 2014 OB<sub>19</sub>, 9, 3, 12; 2014 OC<sub>19</sub>, 3, 1, 0; 2014 OE<sub>19</sub>, 15, 4, 11; 2014 OF<sub>19</sub>, 14, 4, 57; 2014 OK<sub>19</sub>, 3, 1, 0; 2014 OL<sub>19</sub>, 4, 1, 0; 2014 ON<sub>19</sub>, 7, 2, 52; 2014 OP<sub>19</sub>, 3, 1, 0; 2014 OQ<sub>19</sub>, 8, 2, 1; 2014 OR<sub>19</sub>, 3, 1, 0; 2014 OS<sub>19</sub>, 3, 1, 0; 2014 OU<sub>19</sub>, 3, 1, 0; 2014 OV<sub>19</sub>, 16, 4, 62; 2014 OW<sub>19</sub>, 16, 5, 55; 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11, 3, 11; 2014 OW<sub>21</sub>, 11, 2, 11; 2014 OZ<sub>21</sub>, 7, 2, 11; 2014 OC<sub>22</sub>, 6, 2, 9; 2014 OD<sub>22</sub>, 3, 1, 0; 2014 OG<sub>22</sub>, 8, 2, 2; 2014 OK<sub>22</sub>, 4, 1, 0; 2014 ON<sub>22</sub>, 3, 1, 0; 2014 OO<sub>22</sub>, 12, 3, 28; 2014 OP<sub>22</sub>, 8, 2, 22; 2014 OT<sub>22</sub>, 7, 2, 509; 2014 OU<sub>22</sub>, 7, 2, 5; 2014 OV<sub>22</sub>, 7, 2, 9; 2014 OZ<sub>22</sub>, 4, 1, 0; 2014 OB<sub>23</sub>, 11, 2, 9; 2014 OE<sub>23</sub>, 8, 2, 54; 2014 OF<sub>23</sub>, 4, 1, 0; 2014 OG<sub>23</sub>, 6, 2, 43; 2014 OK<sub>23</sub>, 4, 1, 0; 2014 OP<sub>23</sub>, 6, 2, 2; 2014 OT<sub>23</sub>, 4, 1, 0; 2014 OU<sub>23</sub>, 11, 3, 50; 2014 OV<sub>23</sub>, 9, 3, 52; 2014 OZ<sub>23</sub>, 3, 1, 0; 2014 OE<sub>24</sub>, 4, 1, 0; 2014 OK<sub>24</sub>, 4, 1, 0; 2014 OP<sub>24</sub>, 14, 4, 60; 2014 OS<sub>24</sub>, 9, 3, 5; 2014 OZ<sub>24</sub>, 7, 2, 9; 2014 OD<sub>25</sub>, 3, 1, 0; 2014 OE<sub>25</sub>, 7, 2, 9; 2014 OG<sub>25</sub>, 6, 2, 11; 2014 OK<sub>25</sub>, 4, 1, 0; 2014 OL<sub>25</sub>, 10, 3, 11; 2014 OM<sub>25</sub>, 7, 2, 11; 2014 OP<sub>25</sub>, 7, 2, 61; 2014 OS<sub>25</sub>, 11, 3, 86; 2014 OV<sub>25</sub>, 10, 3, 86; 2014 OW<sub>25</sub>, 12, 2, 9; 2014 OA<sub>26</sub>, 7, 2, 11; 2014 OB<sub>26</sub>, 6, 2, 479; 2014 OD<sub>26</sub>, 6, 2, 2; 2014 OE<sub>26</sub>, 11, 3, 54; 2014 OF<sub>26</sub>, 16, 4, 61; 2014 OG<sub>26</sub>, 6, 2, 2; 2014 OK<sub>26</sub>, 6, 2, 52; 2014 OL<sub>26</sub>, 7, 2, 2; 2014 OM<sub>26</sub>, 13, 4, 951; 2014 OR<sub>26</sub>, 3, 1, 0; 2014 OT<sub>26</sub>, 6, 2, 11; 2014 OW<sub>26</sub>, 4, 1, 0; 2014 OD<sub>27</sub>, 9, 3, 11; 2014 OE<sub>27</sub>, 10, 3, 55; 2014 OF<sub>27</sub>, 3, 1, 0; 2014 OG<sub>27</sub>, 10, 3, 9; 2014 OJ<sub>27</sub>, 10, 3, 60; 2014 OL<sub>27</sub>, 11, 3, 11; 2014 OM<sub>27</sub>, 4, 1, 0; 2014 OP<sub>27</sub>, 3, 1, 0; 2014 OQ<sub>27</sub>, 11, 3, 7; 2014 OR<sub>27</sub>, 10, 3, 11; 2014 OS<sub>27</sub>, 4, 1, 0; 2014 OT<sub>27</sub>, 6, 2, 2; 2014 OV<sub>27</sub>, 3, 1, 0; 2014 OW<sub>27</sub>, 4, 1, 0; 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2014 OA<sub>36</sub>, 7, 2, 2; 2014 OP<sub>35</sub>, 21, 6, 508; 2014 OR<sub>35</sub>, 11, 3, 50; 2014 OS<sub>35</sub>, 9, 3, 82; 2014 OT<sub>35</sub>, 13, 3, 59; 2014 OU<sub>35</sub>, 7, 2, 55; 2014 OV<sub>35</sub>, 6, 2, 2; 2014 OZ<sub>35</sub>, 4, 1, 0; 2014 OB<sub>36</sub>, 18, 4, 61; 2014 OC<sub>36</sub>, 7, 2, 2; 2014 OF<sub>36</sub>, 11, 3, 55; 2014 OG<sub>36</sub>, 3, 1, 0; 2014 OH<sub>36</sub>, 3, 1, 0; 2014 OJ<sub>36</sub>, 19, 5, 61; 2014 OL<sub>36</sub>, 9, 3, 11; 2014 OM<sub>36</sub>, 3, 1, 0; 2014 ON<sub>36</sub>, 3, 1, 0; 2014 OV<sub>36</sub>, 7, 2, 51; 2014 OY<sub>36</sub>, 12, 4, 59; 2014 OS<sub>36</sub>, 12, 4, 55; 2014 OT<sub>36</sub>, 8, 2, 449; 2014 OV<sub>36</sub>, 3, 1, 0; 2014 OW<sub>36</sub>, 4, 1, 0; 2014 OX<sub>36</sub>, 8, 2, 55; 2014 OZ<sub>36</sub>, 6, 2, 2; 2014 OA<sub>37</sub>, 6, 1, 0; 2014 OC<sub>37</sub>, 7, 2, 2; 2014 OE<sub>37</sub>, 3, 1, 0; 2014 OF<sub>37</sub>, 7, 2, 2; 2014 OG<sub>37</sub>, 11, 3, 59; 2014 OH<sub>37</sub>, 10, 3, 59; 2014 OJ<sub>37</sub>, 17, 5, 61; 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56; 2014 OX<sub>44</sub>, 4, 1, 0; 2014 OZ<sub>44</sub>, 10, 3, 24; 2014 OB<sub>45</sub>, 8, 2, 9; 2014 OC<sub>45</sub>, 3, 1, 0; 2014 OF<sub>45</sub>, 3, 1, 0; 2014 OJ<sub>45</sub>, 19, 5, 112; 2014 OK<sub>45</sub>, 3, 1, 0; 2014 OL<sub>45</sub>, 15, 4, 1038; 2014 OM<sub>45</sub>, 7, 2, 9; 2014 ON<sub>45</sub>, 15, 4, 54; 2014 OQ<sub>45</sub>, 3, 1, 0; 2014 OU<sub>45</sub>, 7, 2, 61; 2014 OW<sub>45</sub>, 11, 3, 61; 2014 OY<sub>45</sub>, 3, 1, 0; 2014 OZ<sub>45</sub>, 8, 2, 9; 2014 OC<sub>46</sub>, 3, 1, 0; 2014 OE<sub>46</sub>, 3, 1, 0; 2014 OF<sub>46</sub>, 3, 1, 0; 2014 OJ<sub>46</sub>, 13, 3, 61; 2014 OK<sub>46</sub>, 15, 4, 553; 2014 OL<sub>46</sub>, 12, 3, 58; 2014 OM<sub>46</sub>, 3, 1, 0; 2014 ON<sub>46</sub>, 17, 5, 532; 2014 OV<sub>46</sub>, 24, 6, 506; 2014 OY<sub>46</sub>, 12, 3, 57; 2014 OZ<sub>46</sub>, 11, 2, 2; 2014 OA<sub>47</sub>, 18, 4, 60; 2014 OC<sub>47</sub>, 6, 2, 2; 2014 OE<sub>47</sub>, 4, 1, 0; 2014 OH<sub>47</sub>, 2, 1, 0; 2014 OJ<sub>47</sub>, 7, 2, 50; 2014 OL<sub>47</sub>, 7, 2, 2; 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2014 OH<sub>49</sub>, 10, 2, 1; 2014 OJ<sub>49</sub>, 7, 2, 3; 2014 OK<sub>49</sub>, 8, 2, 53; 2014 OL<sub>49</sub>, 7, 2, 2; 2014 OM<sub>49</sub>, 12, 4, 61; 2014 ON<sub>49</sub>, 18, 5, 82; 2014 OP<sub>49</sub>, 7, 2, 2; 2014 OR<sub>49</sub>, 3, 1, 0; 2014 OW<sub>49</sub>, 8, 2, 53; 2014 OY<sub>49</sub>, 3, 1, 0; 2014 OZ<sub>49</sub>, 3, 1, 0; 2014 OE<sub>50</sub>, 7, 2, 61; 2014 OG<sub>50</sub>, 6, 2, 6; 2014 OH<sub>50</sub>, 8, 2, 1; 2014 OJ<sub>50</sub>, 4, 1, 0; 2014 OK<sub>50</sub>, 3, 1, 0; 2014 OL<sub>50</sub>, 3, 1, 0; 2014 OM<sub>50</sub>, 11, 3, 55; 2014 ON<sub>50</sub>, 16, 3, 11; 2014 OX<sub>50</sub>, 11, 3, 53; 2014 OZ<sub>50</sub>, 7, 2, 2; 2014 OA<sub>51</sub>, 11, 3, 11; 2014 OB<sub>51</sub>, 16, 4, 926; 2014 OC<sub>51</sub>, 3, 1, 0; 2014 OD<sub>51</sub>, 3, 1, 0; 2014 OE<sub>51</sub>, 10, 3, 11; 2014 OF<sub>51</sub>, 3, 1, 0; 2014 OG<sub>51</sub>, 4, 1, 0; 2014 OH<sub>51</sub>, 3, 1, 0; 2014 OJ<sub>51</sub>, 17, 5, 924; 2014 OK<sub>51</sub>, 3, 1, 0; 2014 OL<sub>51</sub>, 11, 3, 11; 2014 OM<sub>51</sub>, 10, 2, 9; 2014 ON<sub>51</sub>, 4, 1, 0; 2014 OY<sub>51</sub>, 4, 1, 0; 2014 OZ<sub>51</sub>, 4, 1, 0; 2014 OA<sub>52</sub>, 4, 1, 0; 2014 OB<sub>52</sub>, 10, 3, 59; 2014 OC<sub>52</sub>, 20, 6, 504; 2014 OD<sub>52</sub>, 14, 4, 865; 2014 OE<sub>52</sub>, 8, 2, 2; 2014 OF<sub>52</sub>, 14, 4, 504; 2014 OH<sub>52</sub>, 14, 4, 61; 2014 OJ<sub>52</sub>, 13, 4, 59; 2014 OK<sub>52</sub>, 3, 1, 0; 2014 OL<sub>52</sub>, 4, 1, 0; 2014 OM<sub>52</sub>, 5, 2, 21; 2014 ON<sub>52</sub>, 10, 3, 11; 2014 OP<sub>52</sub>, 11, 3, 44; 2014 OR<sub>52</sub>, 10, 3, 61; 2014 OS<sub>52</sub>, 3, 1, 0; 2014 OT<sub>52</sub>, 6, 2, 2; 2014 OX<sub>52</sub>, 12, 3, 11; 2014 OY<sub>52</sub>, 18, 4, 59; 2014 OZ<sub>52</sub>, 18, 5, 61; 2014 OA<sub>53</sub>, 16, 5, 524; 2014 OB<sub>53</sub>, 6, 2, 2; 2014 OC<sub>53</sub>, 14, 4, 55; 2014 OD<sub>53</sub>, 3, 1, 0; 2014 OE<sub>53</sub>, 6, 2, 1; 2014 OF<sub>53</sub>, 4, 1, 0; 2014 OG<sub>53</sub>, 9, 3, 11; 2014 OH<sub>53</sub>, 3, 1, 0; 2014 OJ<sub>53</sub>, 3, 1, 0; 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2014 OF<sub>55</sub>, 10, 3, 59; 2014 OG<sub>55</sub>, 17, 5, 49; 2014 OH<sub>55</sub>, 8, 2, 2; 2014 OJ<sub>55</sub>, 7, 2, 10; 2014 OK<sub>55</sub>, 11, 3, 12; 2014 OL<sub>55</sub>, 23, 6, 12; 2014 OM<sub>55</sub>, 4, 1, 0; 2014 ON<sub>55</sub>, 3, 1, 0; 2014 OP<sub>55</sub>, 8, 2, 9; 2014 OR<sub>55</sub>, 12, 3, 10; 2014 OS<sub>55</sub>, 4, 1, 0; 2014 OT<sub>55</sub>, 6, 2, 1; 2014 OX<sub>55</sub>, 21, 5, 47; 2014 OY<sub>55</sub>, 4, 1, 0; 2014 OZ<sub>55</sub>, 4, 1, 0; 2014 OA<sub>56</sub>, 16, 4, 57; 2014 OB<sub>56</sub>, 15, 4, 57; 2014 OC<sub>56</sub>, 11, 3, 61; 2014 OD<sub>56</sub>, 12, 3, 10; 2014 OE<sub>56</sub>, 13, 4, 1305; 2014 OF<sub>56</sub>, 4, 1, 0; 2014 OG<sub>56</sub>, 16, 4, 612; 2014 OH<sub>56</sub>, 15, 4, 61; 2014 OJ<sub>56</sub>, 7, 2, 11; 2014 OK<sub>56</sub>, 4, 1, 0; 2014 OL<sub>56</sub>, 8, 2, 2; 2014 OM<sub>56</sub>, 10, 3, 59; 2014 ON<sub>56</sub>, 4, 1, 0; 2014 OY<sub>56</sub>, 3, 1, 0; 2014 OZ<sub>56</sub>, 3, 1, 0; 2014 OA<sub>57</sub>, 10, 3, 55; 2014 OB<sub>57</sub>, 8, 3, 30; 2014 OC<sub>57</sub>, 14, 4, 59; 2014 OD<sub>57</sub>, 7, 2, 2; 2014 OE<sub>57</sub>, 20, 6, 895; 2014 OF<sub>57</sub>, 10, 3, 922; 2014 OG<sub>57</sub>, 14, 4, 451; 2014 OH<sub>57</sub>, 3, 1, 0; 2014 OJ<sub>57</sub>, 29, 8, 917; 2014 OK<sub>57</sub>, 4, 1, 0; 2014 OL<sub>57</sub>, 8, 2, 5; 2014 OM<sub>57</sub>, 7, 2, 2; 2014 ON<sub>57</sub>, 4, 1, 0; 2014 OP<sub>57</sub>, 3, 1, 0; 2014 OQ<sub>57</sub>, 11, 3, 10; 2014 OR<sub>57</sub>, 30, 7, 911; 2014 OS<sub>57</sub>, 10, 3, 12; 2014 OT<sub>57</sub>, 6, 2, 1; 2014 OX<sub>57</sub>, 8, 2, 9; 2014 OY<sub>57</sub>, 8, 2, 9; 2014 OZ<sub>57</sub>, 8, 2, 9; 2014 OA<sub>58</sub>, 11, 3, 10; 2014 OB<sub>58</sub>, 4, 1, 0; 2014 OC<sub>58</sub>, 6, 1, 0; 2014 OD<sub>58</sub>, 8, 2, 9; 2014 OE<sub>58</sub>, 3, 1, 0; 2014 OF<sub>58</sub>, 8, 2, 11; 2014 OG<sub>58</sub>, 7, 2, 2; 2014 OH<sub>58</sub>, 14, 4, 51; 2014 OJ<sub>58</sub>, 11, 3, 26; 2014 OK<sub>58</sub>, 3, 1, 0; 2014 OL<sub>58</sub>, 3, 1, 0; 2014 OM<sub>58</sub>, 14, 4, 13; 2014 ON<sub>58</sub>, 11, 3, 26; 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2014 OM<sub>119</sub>, 7, 2, 2; 2014 OV<sub>119</sub>, 6, 2, 58; 2014 OX<sub>119</sub>, 8, 2, 1; 2014 OY<sub>119</sub>, 4, 1, 0; 2014 OZ<sub>119</sub>, 10, 3, 46; 2014 OA<sub>120</sub>, 3, 1, 0; 2014 OB<sub>120</sub>, 15, 4, 9; 2014 OC<sub>120</sub>, 10, 3, 11; 2014 OD<sub>120</sub>, 11, 3, 56; 2014 OF<sub>120</sub>, 23, 6, 118; 2014 OG<sub>120</sub>, 7, 2, 50; 2014 OH<sub>120</sub>, 4, 1, 0; 2014 OJ<sub>120</sub>, 12, 3, 11; 2014 OK<sub>120</sub>, 7, 2, 55; 2014 OL<sub>120</sub>, 4, 1, 0; 2014 OM<sub>120</sub>, 9, 3, 1038; 2014 ON<sub>120</sub>, 6, 2, 26; 2014 OV<sub>120</sub>, 3, 1, 0; 2014 OW<sub>120</sub>, 3, 1, 0; 2014 OX<sub>120</sub>, 7, 2, 4; 2014 OD<sub>121</sub>, 4, 1, 0; 2014 OG<sub>121</sub>, 6, 2, 2; 2014 OH<sub>121</sub>, 3, 1, 0; 2014 OK<sub>121</sub>, 3, 1, 0; 2014 OL<sub>121</sub>, 3, 1, 0; 2014 OM<sub>121</sub>, 3, 1, 0; 2014 OQ<sub>121</sub>, 3, 1, 0; 2014 OR<sub>121</sub>, 11, 3, 11; 2014 OS<sub>121</sub>, 3, 1, 0; 2014 OV<sub>121</sub>, 6, 2, 2; 2014 OW<sub>121</sub>, 3, 1, 0; 2014 OY<sub>121</sub>, 4, 1, 0; 2014 OA<sub>122</sub>, 6, 2, 2; 2014 OC<sub>122</sub>, 4, 1, 0; 2014 OF<sub>122</sub>, 21, 6, 944; 2014 OG<sub>122</sub>, 10, 3, 59; 2014 OK<sub>122</sub>, 7, 2, 61; 2014 OL<sub>122</sub>, 17, 5, 504; 2014 OM<sub>122</sub>, 3, 1, 0; 2014 OS<sub>122</sub>, 4, 1, 0; 2014 OT<sub>122</sub>, 8, 2, 2; 2014 OU<sub>122</sub>, 25, 7, 541; 2014 OV<sub>122</sub>, 3, 1, 0; 2014 OW<sub>122</sub>, 24, 7, 526; 2014 OX<sub>122</sub>, 19, 5, 831; 2014 OY<sub>122</sub>, 7, 2, 11; 2014 OZ<sub>122</sub>, 14, 4, 61; 2014 OA<sub>123</sub>, 3, 1, 0; 2014 OB<sub>123</sub>, 3, 1, 0; 2014 OC<sub>123</sub>, 10, 3, 9; 2014 OD<sub>123</sub>, 8, 1, 0; 2014 OF<sub>123</sub>, 10, 3, 53; 2014 OG<sub>123</sub>, 11, 3, 59; 2014 OH<sub>123</sub>, 3, 1, 0; 2014 OJ<sub>123</sub>, 17, 5, 61; 2014 OK<sub>123</sub>, 6, 2, 6; 2014 OM<sub>123</sub>, 4, 1, 0; 2014 ON<sub>123</sub>, 3, 1, 0; 2014 OD<sub>124</sub>, 3, 1, 0; 2014 OE<sub>124</sub>, 3, 1, 0; 2014 OF<sub>124</sub>, 6, 2, 54; 2014 OG<sub>124</sub>, 10, 3, 502; 2014 OJ<sub>124</sub>, 3, 1, 0; 2014 OK<sub>124</sub>, 4, 1, 0; 2014 OW<sub>124</sub>, 7, 2, 55; 2014 OX<sub>124</sub>, 3, 1, 0; 2014 OZ<sub>124</sub>, 9, 3, 11; 2014 OB<sub>125</sub>, 3, 1, 0; 2014 OC<sub>125</sub>, 3, 1, 0; 2014 OD<sub>125</sub>, 7, 2, 548; 2014 OG<sub>125</sub>, 13, 3, 54; 2014 OL<sub>125</sub>, 2, 1, 0; 2014 OM<sub>125</sub>, 10, 3, 56; 2014 OS<sub>125</sub>, 3, 1, 0; 2014 OR<sub>125</sub>, 12, 3, 11; 2014 OT<sub>125</sub>, 4, 1, 0; 2014 OV<sub>125</sub>, 4, 1, 0; 2014 OW<sub>125</sub>, 9, 3, 55; 2014 OZ<sub>125</sub>, 4, 1, 0; 2014 OE<sub>126</sub>, 4, 1, 0; 2014 OG<sub>126</sub>, 4, 1, 0; 2014 OJ<sub>126</sub>, 4, 1, 0; 2014 OK<sub>126</sub>, 20, 6, 940; 2014 OM<sub>126</sub>, 20, 6, 61; 2014 ON<sub>126</sub>, 6, 2, 11; 2014 OP<sub>126</sub>, 3, 1, 0; 2014 OQ<sub>126</sub>, 3, 1, 0; 2014 OR<sub>126</sub>, 3, 1, 0; 2014 OS<sub>126</sub>, 2, 1, 0; 2014 OV<sub>126</sub>, 14, 3, 61; 2014 OX<sub>126</sub>, 8, 2, 2; 2014 OC<sub>127</sub>, 7, 2, 2; 2014 OD<sub>127</sub>, 8, 2, 53; 2014 OE<sub>127</sub>, 3, 1, 0; 2014 OF<sub>127</sub>, 10, 3, 474; 2014 OG<sub>127</sub>, 7, 2, 9; 2014 OJ<sub>127</sub>, 11, 3, 57; 2014 OL<sub>127</sub>, 6, 2, 57; 2014 ON<sub>127</sub>, 4, 1, 0; 2014 OP<sub>127</sub>, 6, 2, 1; 2014 OU<sub>127</sub>, 4, 1, 0; 2014 OW<sub>127</sub>, 4, 1, 0; 2014 OY<sub>127</sub>,

8, 2, 437; 2014 OZ<sub>127</sub>, 8, 2, 6; 2014 OB<sub>128</sub>, 4, 1, 0; 2014 OC<sub>128</sub>, 3, 1, 0; 2014 OG<sub>128</sub>, 7, 2, 50; 2014 OO<sub>128</sub>, 7, 2, 2; 2014 OQ<sub>128</sub>, 8, 2, 56; 2014 OX<sub>128</sub>, 3, 1, 0; 2014 OZ<sub>128</sub>, 15, 4, 12; 2014 OB<sub>129</sub>, 3, 1, 0; 2014 OC<sub>129</sub>, 3, 1, 0; 2014 OE<sub>129</sub>, 8, 2, 53; 2014 OF<sub>129</sub>, 11, 3, 61; 2014 OG<sub>129</sub>, 8, 2, 13; 2014 OH<sub>129</sub>, 7, 2, 13; 2014 OJ<sub>129</sub>, 11, 3, 885; 2014 OL<sub>129</sub>, 4, 1, 0; 2014 OM<sub>129</sub>, 18, 4, 99; 2014 ON<sub>129</sub>, 21, 6, 109; 2014 OP<sub>129</sub>, 22, 6, 84; 2014 OR<sub>129</sub>, 3, 1, 0; 2014 OQ<sub>129</sub>, 18, 4, 52; 2014 OR<sub>129</sub>, 20, 5, 912; 2014 OC<sub>130</sub>, 10, 3, 475; 2014 OG<sub>130</sub>, 15, 4, 542; 2014 OH<sub>130</sub>, 10, 3, 12; 2014 OJ<sub>130</sub>, 8, 1, 0; 2014 OK<sub>130</sub>, 6, 2, 2; 2014 OM<sub>130</sub>, 14, 4, 44; 2014 ON<sub>130</sub>, 14, 3, 70; 2014 OO<sub>130</sub>, 8, 2, 10; 2014 OP<sub>130</sub>, 10, 3, 63; 2014 OQ<sub>130</sub>, 15, 4, 59; 2014 OR<sub>130</sub>, 18, 5, 81; 2014 OS<sub>130</sub>, 13, 4, 50; 2014 OT<sub>130</sub>, 3, 1, 0; 2014 OU<sub>130</sub>, 3, 1, 0; 2014 OV<sub>130</sub>, 30, 7, 88; 2014 OZ<sub>130</sub>, 16, 5, 104; 2014 OB<sub>131</sub>, 18, 5, 113; 2014 OE<sub>131</sub>, 25, 7, 550; 2014 OH<sub>131</sub>, 22, 6, 100; 2014 OL<sub>131</sub>, 11, 3, 49; 2014 OM<sub>131</sub>, 11, 3, 61; 2014 ON<sub>131</sub>, 22, 5, 87; 2014 OR<sub>131</sub>, 18, 6, 531; 2014 OY<sub>131</sub>, 3, 1, 0; 2014 OE<sub>132</sub>, 3, 1, 0; 2014 OH<sub>132</sub>, 21, 5, 95; 2014 OL<sub>132</sub>, 2, 1, 0; 2014 OQ<sub>132</sub>, 13, 4, 56; 2014 OT<sub>132</sub>, 6, 2, 878; 2014 OW<sub>132</sub>, 8, 2, 8; 2014 OA<sub>133</sub>, 14, 4, 82; 2014 OB<sub>133</sub>, 4, 1, 0; 2014 OC<sub>133</sub>, 3, 1, 0; 2014 OF<sub>133</sub>, 18, 4, 59; 2014 OH<sub>133</sub>, 4, 1, 0; 2014 OK<sub>133</sub>, 8, 2, 1; 2014 OQ<sub>133</sub>, 4, 1, 0; 2014 OY<sub>133</sub>, 3, 1, 0; 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2014 OQ<sub>136</sub>, 7, 2, 2; 2014 OR<sub>136</sub>, 4, 1, 0; 2014 OS<sub>136</sub>, 16, 4, 61; 2014 OT<sub>136</sub>, 3, 1, 0; 2014 OU<sub>136</sub>, 4, 1, 0; 2014 OZ<sub>136</sub>, 3, 1, 0; 2014 OB<sub>137</sub>, 7, 2, 2; 2014 OC<sub>137</sub>, 8, 2, 2; 2014 OH<sub>137</sub>, 4, 1, 0; 2014 OJ<sub>137</sub>, 4, 1, 0; 2014 OM<sub>137</sub>, 4, 1, 0; 2014 ON<sub>137</sub>, 4, 1, 0; 2014 OT<sub>137</sub>, 7, 1, 0; 2014 OU<sub>137</sub>, 4, 1, 0; 2014 OV<sub>137</sub>, 4, 1, 0; 2014 OW<sub>137</sub>, 12, 3, 1039; 2014 OX<sub>137</sub>, 3, 1, 0; 2014 OY<sub>137</sub>, 11, 3, 13; 2014 OA<sub>138</sub>, 4, 1, 0; 2014 OB<sub>138</sub>, 4, 1, 0; 2014 OD<sub>138</sub>, 4, 1, 0; 2014 OE<sub>138</sub>, 4, 1, 0; 2014 OL<sub>138</sub>, 6, 2, 515; 2014 ON<sub>138</sub>, 6, 2, 2; 2014 OO<sub>138</sub>, 7, 2, 82; 2014 OQ<sub>138</sub>, 10, 3, 52; 2014 OT<sub>138</sub>, 20, 5, 54; 2014 OV<sub>138</sub>, 4, 1, 0; 2014 OW<sub>138</sub>, 6, 2, 3; 2014 OX<sub>138</sub>, 10, 3, 12; 2014 OZ<sub>138</sub>, 21, 6, 566; 2014 OA<sub>139</sub>, 10, 2, 12; 2014 OB<sub>139</sub>, 27, 7, 1100; 2014 OC<sub>139</sub>, 3, 1, 0; 2014 OE<sub>139</sub>, 3, 1, 0; 2014 OG<sub>139</sub>, 7, 2, 84; 2014 OH<sub>139</sub>, 18, 5, 86; 2014 OL<sub>139</sub>, 18, 4, 1005; 2014 OM<sub>139</sub>, 10, 3, 11; 2014 ON<sub>139</sub>, 10, 3, 54; 2014 OP<sub>139</sub>, 4, 1, 0; 2014 OR<sub>139</sub>, 5, 2, 3; 2014 OU<sub>139</sub>, 9, 3, 54; 2014 OX<sub>139</sub>, 4, 1, 0; 2014 OY<sub>139</sub>, 11, 3, 59; 2014 OJ<sub>140</sub>, 17, 5, 94; 2014 OK<sub>140</sub>, 4, 1, 0; 2014 OP<sub>140</sub>, 3, 1, 0; 2014 OR<sub>140</sub>, 8, 2, 58; 2014 OT<sub>140</sub>, 8, 2, 2; 2014 OV<sub>140</sub>, 11, 3, 7; 2014 OW<sub>140</sub>, 17, 4, 59; 2014 OZ<sub>140</sub>, 3, 1, 0; 2014 OA<sub>141</sub>, 4, 1, 0; 2014 OB<sub>141</sub>, 14, 4, 511; 2014 OD<sub>141</sub>, 5, 2, 2; 2014 OE<sub>141</sub>, 10, 3, 81; 2014 OG<sub>141</sub>, 12, 3, 11; 2014 OJ<sub>141</sub>, 15, 4, 50; 2014 OM<sub>141</sub>, 4, 1, 0; 2014 ON<sub>141</sub>, 8, 2, 50; 2014 ON<sub>141</sub>, 3, 1, 0; 2014 OQ<sub>141</sub>, 11, 3, 11; 2014 OR<sub>141</sub>, 10, 3, 53; 2014 OS<sub>141</sub>, 4, 1, 0; 2014 OT<sub>141</sub>, 4, 1, 0; 2014 OV<sub>141</sub>, 3, 1, 0; 2014 OY<sub>141</sub>, 10, 3, 11; 2014 OZ<sub>141</sub>, 10, 3, 61; 2014 OA<sub>142</sub>, 4, 1, 0; 2014 OD<sub>142</sub>, 4, 1, 0; 2014 OH<sub>142</sub>, 3, 1, 0; 2014 OJ<sub>142</sub>, 10, 3, 57; 2014 OK<sub>142</sub>, 15, 4, 55; 2014 OL<sub>142</sub>, 10, 3, 11; 2014 OM<sub>142</sub>, 3, 1, 0; 2014 OR<sub>142</sub>, 11, 3, 61; 2014 OU<sub>142</sub>, 19, 5, 51; 2014 OW<sub>142</sub>, 3, 1, 0; 2014 OX<sub>142</sub>, 4, 1, 0; 2014 OY<sub>142</sub>, 19, 5, 61; 2014 OZ<sub>142</sub>, 3, 1, 0; 2014 OA<sub>143</sub>, 7, 2, 2; 2014 OB<sub>143</sub>, 11, 4, 537; 2014 OC<sub>143</sub>, 16, 4, 55; 2014 OD<sub>143</sub>, 16, 4, 61; 2014 ON<sub>143</sub>, 2, 1, 0; 2014 OO<sub>143</sub>, 11, 3, 61; 2014 OS<sub>143</sub>, 6, 2, 2; 2014 OT<sub>143</sub>, 3, 1, 0; 2014 OW<sub>143</sub>, 16, 3, 11; 2014 OX<sub>143</sub>, 11, 3, 53; 2014 OZ<sub>143</sub>, 10, 3, 55; 2014 OA<sub>144</sub>, 11, 3, 7; 2014 OB<sub>144</sub>, 13, 4, 51; 2014 OC<sub>144</sub>, 9, 3, 5; 2014 OD<sub>144</sub>, 7, 2, 2; 2014 OE<sub>144</sub>, 4, 1, 0; 2014 OF<sub>144</sub>, 7, 2, 48; 2014 OG<sub>144</sub>, 11, 3, 5; 2014 OM<sub>144</sub>, 15, 4, 55; 2014 OP<sub>144</sub>, 6, 2, 5; 2014 OQ<sub>144</sub>, 4, 1, 0; 2014 OR<sub>144</sub>, 15, 4, 9; 2014 OS<sub>144</sub>, 11, 3, 498; 2014 OU<sub>144</sub>, 3, 1, 0; 2014 OV<sub>144</sub>, 8, 2, 4; 201



82; 2014 OC<sub>154</sub>, 8, 2, 37; 2014 OE<sub>154</sub>, 4, 1, 0; 2014 OG<sub>154</sub>, 22, 6, 944; 2014 OL<sub>154</sub>, 8, 2, 58; 2014 OM<sub>154</sub>, 16, 3, 108; 2014 OO<sub>154</sub>, 13, 4, 59; 2014 OP<sub>154</sub>, 17, 5, 941; 2014 OR<sub>154</sub>, 3, 1, 0; 2014 OQ<sub>155</sub>, 7, 2, 445; 2014 OJ<sub>155</sub>, 10, 2, 5; 2014 OM<sub>155</sub>, 22, 6, 1299; 2014 ON<sub>155</sub>, 12, 3, 10; 2014 OP<sub>155</sub>, 12, 3, 9; 2014 OQ<sub>155</sub>, 7, 2, 54; 2014 OW<sub>155</sub>, 15, 3, 3; 2014 OB<sub>156</sub>, 7, 2, 466; 2014 OJ<sub>156</sub>, 3, 1, 0; 2014 OK<sub>156</sub>, 14, 4, 90; 2014 ON<sub>156</sub>, 4, 1, 0; 2014 OQ<sub>156</sub>, 6, 2, 6; 2014 OR<sub>156</sub>, 7, 2, 1; 2014 OS<sub>156</sub>, 7, 2, 54; 2014 OU<sub>156</sub>, 17, 5, 90; 2014 OV<sub>156</sub>, 4, 1, 0; 2014 OY<sub>156</sub>, 18, 5, 64; 2014 OB<sub>157</sub>, 4, 1, 0; 2014 OE<sub>157</sub>, 11, 3, 58; 2014 OK<sub>157</sub>, 3, 1, 0; 2014 OL<sub>157</sub>, 26, 7, 98; 2014 OP<sub>157</sub>, 8, 2, 506; 2014 OR<sub>157</sub>, 6, 2, 56; 2014 OU<sub>157</sub>, 17, 5, 80; 2014 OW<sub>157</sub>, 10, 3, 52; 2014 OZ<sub>157</sub>, 4, 1, 0; 2014 OF<sub>158</sub>, 15, 3, 89; 2014 OH<sub>158</sub>, 4, 1, 0; 2014 OL<sub>158</sub>, 3, 1, 0; 2014 OM<sub>158</sub>, 7, 2, 921; 2014 OQ<sub>158</sub>, 4, 1, 0; 2014 OR<sub>158</sub>, 15, 3, 29; 2014 OS<sub>158</sub>, 12, 3, 54; 2014 OZ<sub>158</sub>, 4, 1, 0; 2014 OC<sub>159</sub>, 11, 2, 54; 2014 OF<sub>159</sub>, 2, 1, 0; 2014 OG<sub>159</sub>, 28, 7, 493; 2014 OH<sub>159</sub>, 10, 3, 54; 2014 OL<sub>159</sub>, 3, 1, 0; 2014 OS<sub>159</sub>, 3, 1, 0; 2014 OT<sub>159</sub>, 7, 2, 26; 2014 OU<sub>159</sub>, 7, 2, 1; 2014 OV<sub>159</sub>, 14, 4, 947; 2014 OW<sub>159</sub>, 7, 2, 4; 2014 OZ<sub>159</sub>, 8, 2, 54; 2014 OE<sub>160</sub>, 3, 1, 0; 2014 OF<sub>160</sub>, 12, 3, 55; 2014 OJ<sub>160</sub>, 3, 1, 0; 2014 OK<sub>160</sub>, 4, 1, 0; 2014 OL<sub>160</sub>, 11, 3, 54; 2014 OM<sub>160</sub>, 7, 1, 0; 2014 OW<sub>160</sub>, 4, 1, 0; 2014 OC<sub>161</sub>, 10, 3, 106; 2014 OD<sub>161</sub>, 3, 1, 0; 2014 OF<sub>161</sub>, 3, 1, 0; 2014 OJ<sub>161</sub>, 12, 3, 55; 2014 OK<sub>161</sub>, 3, 1, 0; 2014 OT<sub>161</sub>, 7, 2, 58; 2014 OV<sub>161</sub>, 7, 2, 1; 2014 OL<sub>162</sub>, 7, 2, 1; 2014 OM<sub>162</sub>, 3, 1, 0; 2014 OP<sub>162</sub>, 3, 1, 0; 2014 OQ<sub>162</sub>, 8, 2, 1; 2014 OU<sub>162</sub>, 11, 2, 1; 2014 OY<sub>162</sub>, 3, 1, 0; 2014 OA<sub>163</sub>, 4, 1, 0; 2014 OC<sub>163</sub>, 2, 1, 0; 2014 OD<sub>163</sub>, 16, 4, 80; 2014 OJ<sub>163</sub>, 14, 4, 60; 2014 ON<sub>163</sub>, 7, 2, 9; 2014 OW<sub>163</sub>, 4, 1, 0; 2014 OH<sub>164</sub>, 11, 3, 57; 2014 OM<sub>164</sub>, 4, 1, 0; 2014 ON<sub>164</sub>, 4, 1, 0; 2014 OS<sub>164</sub>, 12, 3, 105; 2014 OV<sub>164</sub>, 7, 2, 79; 2014 OW<sub>164</sub>, 6, 2, 56; 2014 OX<sub>164</sub>, 3, 1, 0; 2014 OC<sub>165</sub>, 8, 2, 57; 2014 OH<sub>165</sub>, 4, 1, 0; 2014 OJ<sub>165</sub>, 14, 4, 57; 2014 OK<sub>165</sub>, 9, 3, 56; 2014 OA<sub>165</sub>, 3, 1, 0; 2014 OP<sub>165</sub>, 8, 2, 54; 2014 OQ<sub>165</sub>, 10, 3, 11; 2014 OS<sub>165</sub>, 7, 2, 57; 2014 OT<sub>165</sub>, 10, 2, 1; 2014 OU<sub>165</sub>, 12, 3, 56; 2014 OW<sub>165</sub>, 8, 2, 56; 2014 OX<sub>165</sub>, 8, 2, 54; 2014 OC<sub>166</sub>, 11, 3, 3; 2014 OD<sub>166</sub>, 19, 5, 116; 2014 OE<sub>166</sub>, 3, 1, 0; 2014 OF<sub>166</sub>, 4, 1, 0; 2014 OH<sub>166</sub>, 12, 4, 57; 2014 OK<sub>166</sub>, 12, 3, 48; 2014 ON<sub>166</sub>, 11, 3, 55; 2014 OP<sub>166</sub>, 16, 3, 55; 2014 OQ<sub>166</sub>, 7, 2, 54; 2014 OR<sub>166</sub>, 8, 2, 54; 2014 OT<sub>166</sub>, 3, 1, 0; 2014 OV<sub>166</sub>, 7, 2, 1; 2014 OW<sub>166</sub>, 10, 3, 55; 2014 OX<sub>166</sub>, 7, 3, 55; 2014 OC<sub>167</sub>, 8, 2, 521; 2014 OD<sub>167</sub>, 4, 1, 0; 2014 OF<sub>167</sub>, 4, 1, 0; 2014 OG<sub>167</sub>, 9, 3, 55; 2014 OH<sub>167</sub>, 12, 3, 886; 2014 OJ<sub>167</sub>, 10, 3, 55; 2014 OL<sub>167</sub>, 4, 1, 0; 2014 ON<sub>167</sub>, 12, 3, 55; 2014 OR<sub>167</sub>, 9, 3, 55; 2014 OU<sub>167</sub>, 8, 2, 1; 2014 OV<sub>167</sub>, 10, 3, 878; 2014 OY<sub>167</sub>, 3, 1, 0; 2014 OZ<sub>167</sub>, 7, 2, 105; 2014 OA<sub>168</sub>, 8, 2, 56; 2014 OB<sub>168</sub>, 7, 2, 55; 2014 OC<sub>168</sub>, 7, 2, 1; 2014 OE<sub>168</sub>, 3, 1, 0; 2014 OF<sub>168</sub>, 4, 1, 0; 2014 OG<sub>168</sub>, 8, 2, 55; 2014 OH<sub>168</sub>, 3, 1, 0; 2014 OR<sub>168</sub>, 6, 2, 54; 2014 OT<sub>168</sub>, 4, 1, 0; 2014 OV<sub>168</sub>, 8, 2, 1; 2014 OY<sub>168</sub>, 11, 3, 57; 2014 OZ<sub>168</sub>, 7, 2, 54; 2014 OA<sub>169</sub>, 7, 2, 1; 2014 OB<sub>169</sub>, 3, 1, 0; 2014 OC<sub>169</sub>, 7, 2, 54; 2014 OE<sub>169</sub>, 8, 2, 54; 2014 OF<sub>169</sub>, 12, 3, 55; 2014 OG<sub>169</sub>, 11, 3, 55; 2014 OJ<sub>169</sub>, 4, 1, 0; 2014 OK<sub>169</sub>, 8, 2, 1; 2014 OM<sub>169</sub>, 18, 5, 919; 2014 ON<sub>169</sub>, 4, 1, 0; 2014 OV<sub>169</sub>, 2, 1, 0; 2014 OQ<sub>169</sub>, 11, 3, 1300; 2014 OS<sub>169</sub>, 8, 2, 1; 2014 OT<sub>169</sub>, 4, 1, 0; 2014 OW<sub>169</sub>, 14, 3, 55; 2014 OY<sub>169</sub>, 3, 1, 0; 2014 OZ<sub>169</sub>, 11, 3, 57; 2014 OC<sub>170</sub>, 4, 1, 0; 2014 OD<sub>170</sub>, 3, 1, 0; 2014 OE<sub>170</sub>, 11, 2, 1; 2014 OF<sub>170</sub>, 11, 3, 89; 2014 OH<sub>170</sub>, 8, 2, 56; 2014 OJ<sub>170</sub>, 6, 2, 1; 2014 OL<sub>170</sub>, 4, 1, 0; 2014 OM<sub>170</sub>, 10, 3, 521; 2014 ON<sub>170</sub>, 11, 3, 59; 2014 OP<sub>170</sub>, 11, 3, 499; 2014 OQ<sub>170</sub>, 3, 1, 0; 2014 OX<sub>170</sub>, 3, 1, 0; 2014 OY<sub>170</sub>, 12, 3, 79; 2014 OZ<sub>170</sub>, 10, 3, 55; 2014 OA<sub>171</sub>, 7, 2, 56; 2014 OC<sub>171</sub>, 17, 5, 67; 2014 OF<sub>171</sub>, 7, 2, 57; 2014 OJ<sub>171</sub>, 6, 2, 56; 2014 OL<sub>171</sub>, 18, 4, 81; 2014 OM<sub>171</sub>, 4, 1, 0; 2014 OP<sub>171</sub>, 8, 2, 1; 2014 OR<sub>171</sub>, 7, 2, 10; 2014 OS<sub>171</sub>, 14, 4, 57; 2014 OU<sub>171</sub>, 8, 2, 55; 2014 OX<sub>171</sub>, 4, 1, 0; 2014 OA<sub>172</sub>, 7, 2, 50; 2014 OB<sub>172</sub>, 7, 2, 50; 2014 OC<sub>172</sub>, 1, 1, 0; 2014 OD<sub>172</sub>, 17, 4, 57; 2014 OG<sub>172</sub>, 11, 4, 555; 2014 OK<sub>172</sub>, 22, 6, 480; 2014 OL<sub>172</sub>, 6, 2, 506; 2014 OP<sub>172</sub>, 11, 3, 56; 2014 OR<sub>172</sub>, 4, 1, 0; 2014 OY<sub>172</sub>, 10, 3, 56; 2014 OV<sub>172</sub>, 3, 1, 0; 2014 OX<sub>172</sub>, 16, 4, 59; 2014 OY<sub>172</sub>, 7, 2, 59; 2014 OZ<sub>172</sub>, 7, 2, 56; 2014 OA<sub>173</sub>, 9, 3, 865; 2014 OB<sub>173</sub>, 3, 1, 0; 2014 OC<sub>173</sub>, 4, 1, 0; 2014 OF<sub>173</sub>, 14, 4, 52; 2014 OG<sub>173</sub>, 12, 3, 56; 2014 OK<sub>173</sub>, 3, 1, 0; 2014 ON<sub>173</sub>, 14, 3, 51; 2014 OT<sub>173</sub>, 7, 2, 56; 2014 OY<sub>173</sub>, 7, 2, 50; 2014 OC<sub>174</sub>, 16, 4, 59; 2014 OF<sub>174</sub>, 3, 1, 0; 2014 OL<sub>174</sub>, 12, 3, 57; 2014 ON<sub>174</sub>, 4, 1, 0; 2014 OU<sub>174</sub>, 11, 3, 61; 2014 OW<sub>174</sub>, 3, 1, 0; 2014 OZ<sub>174</sub>, 10, 3, 56; 2014 OB<sub>175</sub>, 3, 1, 0; 2014 OC<sub>175</sub>, 3, 1, 0; 2014 OE<sub>175</sub>, 15, 4, 54; 2014 OM<sub>175</sub>, 8, 2, 462; 2014 OO<sub>175</sub>, 4, 1, 0; 2014 OS<sub>175</sub>, 14, 4, 44; 2014 OW<sub>175</sub>, 3, 1, 0; 2014 OD<sub>176</sub>, 10, 3, 54; 2014 OK<sub>176</sub>, 9, 2, 1; 2014 OL<sub>176</sub>, 12, 3, 82; 2014 OM<sub>176</sub>, 8, 3, 64; 2014 OR<sub>176</sub>, 6, 2, 1; 2014 OV<sub>176</sub>, 3, 1, 0; 2014 OX<sub>176</sub>, 7, 2, 51; 2014 OB<sub>177</sub>, 7, 2, 6; 2014 OC<sub>177</sub>, 3, 1, 0; 2014 OD<sub>177</sub>, 10, 3, 79; 2014 OE<sub>177</sub>, 4, 1, 0; 2014 OK<sub>177</sub>, 12, 3, 55; 2014 OL<sub>177</sub>, 4, 1, 0; 2014 OP<sub>177</sub>, 3, 1, 0; 2014 OR<sub>177</sub>, 4, 1, 0; 2014 OW<sub>177</sub>, 4, 1, 0; 2014 OX<sub>177</sub>, 8, 2, 54; 2014 OY<sub>177</sub>, 3, 1, 0; 2014 OB<sub>178</sub>, 10, 2, 1; 2014 OD<sub>178</sub>, 3, 1, 0; 2014 OE<sub>178</sub>, 7, 2, 1; 2014 OF<sub>178</sub>, 13, 4, 1033; 2014 OG<sub>178</sub>, 6, 2, 1; 2014 OL<sub>178</sub>, 4, 1, 0; 2014 ON<sub>178</sub>, 3, 1, 0; 2014 OY<sub>178</sub>, 11, 3, 11; 2014 OT<sub>178</sub>, 4, 1, 0; 2014 OX<sub>178</sub>, 9, 2, 3; 2014 OY<sub>178</sub>, 13, 3, 1003; 2014 OA<sub>179</sub>, 4, 1, 0; 2014 OE<sub>179</sub>, 4, 1, 0; 2014 OF<sub>179</sub>, 23, 6, 902; 2014 OG<sub>179</sub>, 3, 1, 0; 2014 OH<sub>179</sub>, 10, 3, 55; 2014 OK<sub>179</sub>, 4, 1, 0; 2014 OL<sub>179</sub>, 10, 3, 48; 2014 OM<sub>179</sub>, 7, 2, 549; 2014 ON<sub>179</sub>, 11, 4, 922; 2014 OP<sub>179</sub>, 7, 2, 463; 2014 OQ<sub>179</sub>, 11, 3, 48; 2014 OT<sub>179</sub>, 4, 1, 0; 2014 OU<sub>179</sub>, 13, 4, 48; 2014 OV<sub>179</sub>, 8, 2, 10; 2014 OA<sub>180</sub>, 4, 1, 0; 2014 OC<sub>180</sub>, 10, 3, 546; 2014 OD<sub>180</sub>, 11, 3, 495; 2014 OE<sub>180</sub>, 14, 4, 48; 2014 OH<sub>180</sub>, 8, 3, 479; 2014 OJ<sub>180</sub>, 13, 4, 48; 2014 OK<sub>180</sub>, 4, 1, 0; 2014 OL<sub>180</sub>, 14, 4, 933; 2014 OM<sub>180</sub>, 3, 1, 0; 2014 OR<sub>180</sub>, 7, 2, 53; 2014 OS<sub>180</sub>, 8, 2, 422; 2014 OV<sub>180</sub>, 4, 1, 0; 2014 OY<sub>180</sub>, 4, 1, 0; 2014 OB<sub>181</sub>, 6, 2, 31; 2014 OC<sub>181</sub>, 3, 1, 0; 2014 OD<sub>181</sub>, 15, 4, 89; 2014 OF<sub>181</sub>, 4, 1, 0; 2014 OG<sub>181</sub>, 12, 3, 859; 2014 OJ<sub>181</sub>, 5, 2, 2; 2014 OL<sub>181</sub>, 7, 2, 38; 2014 ON<sub>181</sub>, 4, 1, 0; 2014 OR<sub>181</sub>, 8, 2, 8; 2014 OU<sub>181</sub>, 4, 1, 0; 2014 OX<sub>181</sub>, 8, 2, 10; 2014 OC<sub>182</sub>, 3, 1, 0; 2014 OD<sub>182</sub>, 14, 4, 1006; 2014 OF<sub>182</sub>, 10, 3, 66; 2014 OG<sub>182</sub>, 11, 3, 66; 2014 OK<sub>182</sub>,

14, 4, 451; 2014 ON<sub>182</sub>, 7, 2, 10; 2014 OP<sub>182</sub>, 8, 2, 12; 2014 OQ<sub>182</sub>, 4, 1, 0; 2014 OT<sub>182</sub>, 11, 3, 66; 2014 OU<sub>182</sub>, 10, 3, 63; 2014 OV<sub>182</sub>, 10, 3, 61; 2014 OW<sub>182</sub>, 7, 2, 29; 2014 OY<sub>182</sub>, 11, 2, 58; 2014 OA<sub>183</sub>, 3, 1, 0; 2014 OC<sub>183</sub>, 11, 3, 61; 2014 OD<sub>183</sub>, 6, 2, 53; 2014 OL<sub>183</sub>, 3, 1, 0; 2014 ON<sub>183</sub>, 8, 2, 51; 2014 OO<sub>183</sub>, 6, 2, 31; 2014 OP<sub>183</sub>, 6, 2, 58; 2014 OQ<sub>183</sub>, 4, 1, 0; 2014 OZ<sub>183</sub>, 11, 3, 61; 2014 OE<sub>184</sub>, 12, 3, 58; 2014 OH<sub>184</sub>, 10, 3, 61; 2014 OJ<sub>184</sub>, 11, 3, 66; 2014 OK<sub>184</sub>, 16, 5, 443; 2014 OR<sub>184</sub>, 12, 2, 29; 2014 OU<sub>184</sub>, 11, 3, 58; 2014 OX<sub>184</sub>, 7, 2, 51; 2014 OY<sub>184</sub>, 15, 4, 505; 2014 OA<sub>185</sub>, 12, 3, 370; 2014 OD<sub>185</sub>, 11, 3, 66; 2014 OG<sub>185</sub>, 22, 5, 479; 2014 OH<sub>185</sub>, 14, 4, 503; 2014 OJ<sub>185</sub>, 6, 2, 22; 2014 OK<sub>185</sub>, 3, 1, 0; 2014 OL<sub>185</sub>, 8, 2, 40; 2014 OM<sub>185</sub>, 7, 2, 10; 2014 ON<sub>185</sub>, 3, 1, 0; 2014 OQ<sub>185</sub>, 10, 2, 11; 2014 OR<sub>185</sub>, 11, 3, 10; 2014 OS<sub>185</sub>, 3, 1, 0; 2014 OT<sub>185</sub>, 9, 3, 38; 2014 OU<sub>185</sub>, 3, 1, 0; 2014 OZ<sub>185</sub>, 7, 2, 487; 2014 OA<sub>186</sub>, 6, 2, 10; 2014 OB<sub>186</sub>, 4, 1, 0; 2014 OH<sub>186</sub>, 14, 4, 945; 2014 OK<sub>186</sub>, 4, 1, 0; 2014 OL<sub>186</sub>, 2, 1, 0; 2014 OP<sub>186</sub>, 11, 2, 21; 2014 OQ<sub>186</sub>, 15, 4, 543; 2014 OT<sub>186</sub>, 8, 2, 4; 2014 OW<sub>186</sub>, 4, 1, 0; 2014 OX<sub>186</sub>, 10, 2, 3; 2014 OY<sub>186</sub>, 6, 2, 91; 2014 OD<sub>187</sub>, 4, 1, 0; 2014 OF<sub>187</sub>, 6, 2, 5; 2014 OH<sub>187</sub>, 3, 1, 0; 2014 OM<sub>187</sub>, 4, 1, 0; 2014 ON<sub>187</sub>, 3, 1, 0; 2014 OQ<sub>187</sub>, 10, 3, 91; 2014 OR<sub>187</sub>, 4, 1, 0; 2014 OT<sub>187</sub>, 4, 1, 0; 2014 OU<sub>187</sub>, 8, 2, 3; 2014 OZ<sub>187</sub>, 3, 1, 0; 2014 OC<sub>188</sub>, 18, 5, 1311; 2014 OD<sub>188</sub>, 7, 2, 896; 2014 OE<sub>188</sub>, 4, 1, 0; 2014 OF<sub>188</sub>, 4, 1, 0; 2014 OJ<sub>188</sub>, 4, 1, 0; 2014 OK<sub>188</sub>, 7, 2, 3; 2014 OL<sub>188</sub>, 8, 2, 28; 2014 OM<sub>188</sub>, 4, 1, 0; 2014 OO<sub>188</sub>, 8, 2, 3; 2014 OP<sub>188</sub>, 10, 3, 559; 2014 OQ<sub>188</sub>, 16, 4, 91; 2014 OX<sub>188</sub>, 3, 1, 0; 2014 OZ<sub>188</sub>, 4, 1, 0; 2014 OA<sub>189</sub>, 9, 3, 31; 2014 OB<sub>189</sub>, 3, 1, 0; 2014 OC<sub>189</sub>, 4, 1, 0; 2014 OD<sub>189</sub>, 4, 1, 0; 2014 OE<sub>189</sub>, 8, 2, 3; 2014 OF<sub>189</sub>, 4, 1, 0; 2014 OG<sub>189</sub>, 4, 1, 0; 2014 OH<sub>189</sub>, 4, 1, 0; 2014 OJ<sub>189</sub>, 4, 1, 0; 2014 OK<sub>189</sub>, 3, 1, 0; 2014 OM<sub>189</sub>, 7, 2, 3; 2014 OP<sub>189</sub>, 4, 1, 0; 2014 OQ<sub>189</sub>, 4, 1, 0; 2014 OS<sub>189</sub>, 7, 2, 28; 2014 OT<sub>189</sub>, 4, 1, 0; 2014 OW<sub>189</sub>, 4, 1, 0; 2014 OA<sub>190</sub>, 4, 1, 0; 2014 OC<sub>190</sub>, 11, 3, 6; 2014 OD<sub>190</sub>, 9, 3, 84; 2014 OE<sub>190</sub>, 4, 1, 0; 2014 OG<sub>190</sub>, 4, 1, 0; 2014 OH<sub>190</sub>, 6, 2, 3; 2014 OL<sub>190</sub>, 11, 2, 3; 2014 ON<sub>190</sub>, 11, 3, 26; 2014 OQ<sub>190</sub>, 4, 1, 0; 2014 OW<sub>190</sub>, 7, 2, 3; 2014 OX<sub>190</sub>, 4, 1, 0; 2014 OB<sub>191</sub>, 3, 1, 0; 2014 OC<sub>191</sub>, 4, 1, 0; 2014 OF<sub>191</sub>, 7, 3, 5; 2014 OH<sub>191</sub>, 8, 2, 475; 2014 OJ<sub>191</sub>, 3, 1, 0; 2014 OK<sub>191</sub>, 8, 2, 2; 2014 OL<sub>191</sub>, 8, 2, 1; 2014 OM<sub>191</sub>, 4, 1, 0; 2014 ON<sub>191</sub>, 4, 1, 0; 2014 OY<sub>191</sub>, 8, 2, 2; 2014 OY<sub>191</sub>, 7, 2, 5; 2014 OA<sub>192</sub>, 8, 2, 28; 2014 OB<sub>192</sub>, 11, 3, 510; 2014 OC<sub>192</sub>, 3, 1, 0; 2014 OD<sub>192</sub>, 11, 3, 5; 2014 OF<sub>192</sub>, 4, 1, 0; 2014 OG<sub>192</sub>, 15, 4, 927; 2014 OJ<sub>192</sub>, 8, 2, 2; 2014 OL<sub>192</sub>, 15, 3, 5; 2014 OO<sub>192</sub>, 4, 1, 0; 2014 OP<sub>192</sub>, 7, 2, 881; 2014 OQ<sub>192</sub>, 4, 1, 0; 2014 OS<sub>192</sub>, 7, 2, 28; 2014 OU<sub>192</sub>, 4, 1, 0; 2014 OV<sub>192</sub>, 7, 2, 7; 2014 OW<sub>192</sub>, 3, 1, 0; 2014 OC<sub>193</sub>, 21, 6, 1302; 2014 OF<sub>193</sub>, 7, 2, 7; 2014 OH<sub>193</sub>, 12, 2, 3; 2014 ON<sub>193</sub>, 4, 1, 0; 2014 OQ<sub>193</sub>, 4, 1, 0; 2014 OQ<sub>193</sub>, 4, 1, 0; 2014 OU<sub>193</sub>, 7, 2, 3; 2014 OW<sub>193</sub>, 7, 2, 7; 2014 OX<sub>193</sub>, 3, 1, 0; 2014 OZ<sub>193</sub>, 3, 1, 0; 2014 OE<sub>194</sub>, 6, 2, 3; 2014 OF<sub>194</sub>, 18, 4, 13; 2014 OG<sub>194</sub>, 4, 1, 0; 2014 OH<sub>194</sub>, 4, 1, 0; 2014 OK<sub>194</sub>, 3, 1, 0; 2014 ON<sub>194</sub>, 8, 2, 3; 2014 OO<sub>194</sub>, 4, 1, 0; 2014 OP<sub>194</sub>, 4, 1, 0; 2014 OQ<sub>194</sub>, 4, 1, 0; 2014 OR<sub>194</sub>, 4, 1, 0; 2014 OS<sub>194</sub>, 7, 2, 3; 2014 OT<sub>194</sub>, 6, 2, 3; 2014 OV<sub>194</sub>, 4, 1, 0; 2014 OW<sub>194</sub>, 11, 3, 85; 2014 OX<sub>194</sub>, 7, 2, 3; 2014 OY<sub>194</sub>, 3, 1, 0; 2014 OZ<sub>194</sub>, 8, 2, 7; 2014 OA<sub>195</sub>, 7, 2, 3; 2014 OB<sub>195</sub>, 4, 1, 0; 2014 OC<sub>195</sub>, 15, 4, 562; 2014 OD<sub>195</sub>, 11, 3, 10; 2014 OE<sub>195</sub>, 3, 1, 0; 2014 OF<sub>195</sub>, 3, 1, 0; 2014 OG<sub>195</sub>, 8, 1, 0; 2014 OH<sub>195</sub>, 8, 2, 1; 2014 OJ<sub>195</sub>, 12, 3, 91; 2014 OK<sub>195</sub>, 4, 1, 0; 2014 OL<sub>195</sub>, 12, 3, 10; 2014 OM<sub>195</sub>, 4, 1, 0; 2014 ON<sub>195</sub>, 8, 2, 3; 2014 OO<sub>195</sub>, 8, 2, 7; 2014 OP<sub>195</sub>, 8, 2, 3; 2014 OQ<sub>195</sub>, 8, 2, 3; 2014 OR<sub>195</sub>, 8, 2, 3; 2014 OS<sub>195</sub>, 8, 2, 3; 2014 OT<sub>195</sub>, 4, 1, 0; 2014 OU<sub>195</sub>, 8, 1, 0; 2014 OV<sub>195</sub>, 8, 1, 0; 2014 OW<sub>195</sub>, 8, 1, 0; 2014 OX<sub>195</sub>, 6, 2, 3; 2014 OA<sub>196</sub>, 6, 2, 3; 2014 OB<sub>196</sub>, 8, 1, 0; 2014 OF<sub>196</sub>, 2, 1, 0; 2014 OG<sub>196</sub>, 7, 1, 0; 2014 OH<sub>196</sub>, 14, 4, 512; 2014 OJ<sub>196</sub>, 7, 2, 1; 2014 OM<sub>196</sub>, 8, 2, 3; 2014 ON<sub>196</sub>, 8, 2, 3; 2014 OQ<sub>196</sub>, 8, 2, 3; 2014 OT<sub>196</sub>, 12, 2, 3; 2014 OV<sub>196</sub>, 10, 3, 88; 2014 OX<sub>196</sub>, 4, 1, 0; 2014 OY<sub>196</sub>, 11, 2, 503; 2014 OB<sub>197</sub>, 4, 1, 0; 2014 OC<sub>197</sub>, 14, 3, 10; 2014 OD<sub>197</sub>, 4, 1, 0; 2014 OE<sub>197</sub>, 8, 2, 7; 2014 OG<sub>197</sub>, 3, 1, 0; 2014 OJ<sub>197</sub>, 14, 4, 886; 2014 OK<sub>197</sub>, 8, 2, 3; 2014 OL<sub>197</sub>, 7, 2, 4; 2014 OM<sub>197</sub>, 13, 4, 25; 2014 ON<sub>197</</sub>



2014 OO<sub>205</sub>, 11, 3, 37; 2014 OP<sub>205</sub>, 7, 2, 1; 2014 OS<sub>205</sub>, 7, 2, 22; 2014 OT<sub>205</sub>, 8, 2, 5; 2014 OU<sub>205</sub>, 5, 2, 21; 2014 OV<sub>205</sub>, 4, 1, 0; 2014 OW<sub>205</sub>, 4, 1, 0; 2014 OY<sub>205</sub>, 6, 2, 9; 2014 OZ<sub>205</sub>, 3, 1, 0; 2014 OA<sub>206</sub>, 4, 1, 0; 2014 OB<sub>206</sub>, 3, 1, 0; 2014 OD<sub>206</sub>, 3, 1, 0; 2014 OE<sub>206</sub>, 12, 2, 1; 2014 OF<sub>206</sub>, 4, 1, 0; 2014 OG<sub>206</sub>, 15, 4, 53; 2014 OH<sub>206</sub>, 7, 2, 21; 2014 OI<sub>206</sub>, 8, 2, 1; 2014 OJ<sub>206</sub>, 12, 3, 11; 2014 OK<sub>206</sub>, 6, 2, 57; 2014 OL<sub>206</sub>, 15, 3, 3; 2014 OM<sub>206</sub>, 6, 2, 5; 2014 ON<sub>206</sub>, 8, 2, 5; 2014 OZ<sub>206</sub>, 11, 3, 17; 2014 OE<sub>207</sub>, 11, 3, 559; 2014 OH<sub>207</sub>, 29, 8, 499; 2014 OK<sub>207</sub>, 11, 3, 5; 2014 OV<sub>207</sub>, 3, 1, 0; 2014 OT<sub>207</sub>, 11, 2, 1; 2014 OW<sub>207</sub>, 3, 1, 0; 2014 OY<sub>207</sub>, 12, 3, 5; 2014 OZ<sub>207</sub>, 3, 1, 0; 2014 OA<sub>208</sub>, 14, 4, 94; 2014 OB<sub>208</sub>, 3, 1, 0; 2014 OC<sub>208</sub>, 22, 5, 529; 2014 OD<sub>208</sub>, 3, 1, 0; 2014 OE<sub>208</sub>, 3, 1, 0; 2014 OF<sub>208</sub>, 11, 3, 7; 2014 OG<sub>208</sub>, 4, 1, 0; 2014 OH<sub>208</sub>, 22, 6, 112; 2014 OI<sub>208</sub>, 10, 3, 11; 2014 OJ<sub>208</sub>, 9, 3, 951; 2014 OK<sub>208</sub>, 7, 2, 2; 2014 OL<sub>208</sub>, 4, 1, 0; 2014 OM<sub>208</sub>, 4, 1, 0; 2014 ON<sub>208</sub>, 4, 1, 0; 2014 OZ<sub>208</sub>, 4, 1, 0; 2014 OA<sub>209</sub>, 7, 2, 11; 2014 OB<sub>209</sub>, 10, 3, 54; 2014 OC<sub>209</sub>, 7, 2, 61; 2014 OD<sub>209</sub>, 2, 1, 0; 2014 OE<sub>209</sub>, 11, 3, 925; 2014 OF<sub>209</sub>, 3, 1, 0; 2014 OG<sub>209</sub>, 16, 4, 61; 2014 OH<sub>209</sub>, 3, 1, 0; 2014 OI<sub>209</sub>, 3, 1, 0; 2014 OJ<sub>209</sub>, 4, 1, 0; 2014 OK<sub>209</sub>, 3, 1, 0; 2014 OL<sub>209</sub>, 7, 2, 2; 2014 OM<sub>209</sub>, 3, 1, 0; 2014 ON<sub>209</sub>, 3, 1, 0; 2014 OZ<sub>209</sub>, 11, 3, 57; 2014 OE<sub>211</sub>, 3, 1, 0; 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2014 OH<sub>295</sub>, 12, 3, 88; 2014 OM<sub>295</sub>, 11, 3, 88; 2014 ON<sub>295</sub>, 9, 2, 3; 2014 OO<sub>295</sub>, 12, 2, 3; 2014 OR<sub>295</sub>, 8, 2, 3; 2014 OX<sub>295</sub>, 3, 1, 0; 2014 OY<sub>295</sub>, 4, 1, 0; 2014 OZ<sub>295</sub>, 7, 2, 3; 2014 OA<sub>296</sub>, 8, 1, 0; 2014 OG<sub>296</sub>, 7, 2, 3; 2014 OJ<sub>296</sub>, 4, 1, 0; 2014 OF<sub>296</sub>, 4, 1, 0; 2014 OR<sub>296</sub>, 7, 2, 3; 2014 OY<sub>296</sub>, 2, 1, 0; 2014 OZ<sub>296</sub>, 8, 2, 29; 2014 OA<sub>297</sub>, 8, 2, 2; 2014 OC<sub>297</sub>, 4, 1, 0; 2014 OE<sub>297</sub>, 8, 2, 3; 2014 OH<sub>297</sub>, 6, 2, 14; 2014 OJ<sub>297</sub>, 3, 1, 0; 2014 OM<sub>297</sub>, 8, 2, 2; 2014 ON<sub>297</sub>, 4, 1, 0; 2014 OF<sub>297</sub>, 7, 2, 5; 2014 OW<sub>297</sub>, 8, 2, 2; 2014 OA<sub>298</sub>, 4, 1, 0; 2014 OB<sub>298</sub>, 3, 1, 0; 2014 OC<sub>298</sub>, 4, 1, 0; 2014 OH<sub>298</sub>, 11, 3, 8; 2014 ON<sub>298</sub>, 8, 2, 2; 2014 OX<sub>298</sub>, 10, 3, 13; 2014 OY<sub>298</sub>, 12, 3, 13; 2014 OA<sub>299</sub>, 10, 3, 13; 2014 OD<sub>299</sub>, 4, 1, 0; 2014 OG<sub>299</sub>, 4, 1, 0; 2014 OH<sub>299</sub>, 3, 1, 0; 2014 OJ<sub>299</sub>, 7, 2, 3; 2014 OM<sub>299</sub>, 4, 1, 0; 2014 OO<sub>299</sub>, 7, 2, 7; 2014 OP<sub>299</sub>, 4, 1, 0; 2014 OQ<sub>299</sub>, 12, 3, 12; 2014 OW<sub>299</sub>, 4, 1, 0; 2014 OY<sub>299</sub>, 7, 2, 3; 2014 OA<sub>300</sub>, 7, 2, 2; 2014 OC<sub>300</sub>, 3, 1, 0; 2014 OD<sub>300</sub>, 2, 1, 0; 2014 OE<sub>300</sub>, 5, 2, 1; 2014 OH<sub>300</sub>, 3, 1, 0; 2014 OO<sub>300</sub>, 7, 2, 5; 2014 OF<sub>300</sub>, 4, 1, 0; 2014 OG<sub>300</sub>, 3, 1, 0; 2014 OS<sub>300</sub>, 8, 2, 17; 2014 OT<sub>300</sub>, 3, 1, 0; 2014 OX<sub>300</sub>, 3, 1, 0; 2014 OY<sub>300</sub>, 3, 1, 0; 2014 OZ<sub>300</sub>, 4, 1, 0; 2014 OH<sub>301</sub>, 4, 1, 0; 2014 OK<sub>301</sub>, 4, 1, 0; 2014 OL<sub>301</sub>, 7, 2, 5; 2014 OM<sub>301</sub>, 3, 1, 0; 2014 OT<sub>301</sub>, 6, 2, 25; 2014 OV<sub>301</sub>, 8, 2, 30; 2014 OW<sub>301</sub>, 22, 6, 502; 2014 OA<sub>302</sub>, 4, 1, 0; 2014 OB<sub>302</sub>, 4, 1, 0; 2014 OC<sub>302</sub>, 7, 2, 9; 2014 OD<sub>302</sub>, 6, 2, 2; 2014 OE<sub>302</sub>, 3, 1, 0; 2014 OF<sub>302</sub>, 8, 2, 2; 2014 OG<sub>302</sub>, 3, 1, 0; 2014 OJ<sub>302</sub>, 3, 1, 0; 2014 ON<sub>302</sub>, 4, 1, 0; 2014 OO<sub>302</sub>, 4, 1, 0; 2014 OF<sub>302</sub>, 3, 1, 0; 2014 OR<sub>302</sub>, 6, 2, 9; 2014 OU<sub>302</sub>, 8, 2, 2; 2014 OV<sub>302</sub>, 8, 2, 2; 2014 OW<sub>302</sub>, 3, 1, 0; 2014 OX<sub>302</sub>, 4, 1, 0; 2014 OY<sub>302</sub>, 3, 1, 0; 2014 OA<sub>303</sub>, 6, 2, 9; 2014 OC<sub>303</sub>, 10, 3, 1305; 2014 OD<sub>303</sub>, 3, 1, 0; 2014 OE<sub>303</sub>, 3, 1, 0; 2014 OF<sub>303</sub>, 4, 1, 0; 2014 OL<sub>303</sub>, 17, 5, 82; 2014 ON<sub>303</sub>, 4, 1, 0; 2014 OX<sub>303</sub>, 3, 1, 0; 2014 OY<sub>303</sub>, 8, 2, 2; 2014 OT<sub>303</sub>, 3, 1, 0; 2014 OV<sub>303</sub>, 4, 1, 0; 2014 OW<sub>303</sub>, 7, 2, 24; 2014 OX<sub>303</sub>, 4, 1, 0; 2014 OY<sub>303</sub>, 16, 4, 59; 2014 OZ<sub>303</sub>, 10, 3, 26; 2014 OC<sub>304</sub>, 8, 2, 11; 2014 OD<sub>304</sub>, 6, 2, 28; 2014 OJ<sub>304</sub>, 11, 3, 61; 2014 OK<sub>304</sub>, 6, 2, 2; 2014 OL<sub>304</sub>, 7, 2, 59; 2014 OM<sub>304</sub>, 3, 1, 0; 2014 OT<sub>304</sub>, 15, 4, 53; 2014 OU<sub>304</sub>, 11, 3, 94; 2014 OY<sub>304</sub>, 23, 7, 55; 2014 OA<sub>305</sub>, 19, 4, 921; 2014 OE<sub>305</sub>, 4, 1, 0; 2014 OK<sub>305</sub>, 3, 1, 0; 2014 OO<sub>305</sub>, 7, 2, 2; 2014 OQ<sub>305</sub>, 12, 3, 59; 2014 OW<sub>305</sub>, 3, 1, 0; 2014 OZ<sub>305</sub>, 4, 1, 0; 2014 OA<sub>306</sub>, 8, 2, 2; 2014 OD<sub>306</sub>, 11, 3, 61; 2014 OF<sub>306</sub>, 10, 3, 55; 2014 OL<sub>306</sub>, 10, 3, 55; 2014 OO<sub>306</sub>, 14, 4, 61; 2014 OP<sub>306</sub>, 3, 1, 0; 2014 OR<sub>306</sub>, 7, 2, 2; 2014 OS<sub>306</sub>, 3, 1, 0; 2014 OT<sub>306</sub>, 18, 5, 1034; 2014 OX<sub>306</sub>, 3, 1, 0; 2014 OY<sub>306</sub>, 8, 1, 0; 2014 OZ<sub>306</sub>, 3, 1, 0; 2014 OA<sub>307</sub>, 24, 6, 541; 2014 OB<sub>307</sub>, 7, 2, 29; 2014 OC<sub>307</sub>, 7, 2, 6; 2014 OF<sub>307</sub>, 12, 3, 8; 2014 OG<sub>307</sub>, 6, 2, 7; 2014 OH<sub>307</sub>, 11, 2, 2; 2014 OJ<sub>307</sub>, 11, 3, 3; 2014 OK<sub>307</sub>, 7, 2, 4; 2014 OM<sub>307</sub>, 4, 1, 0; 2014 OO<sub>307</sub>, 8, 2, 2; 2014 OR<sub>307</sub>, 4, 1, 0; 2014 OT<sub>307</sub>, 8, 2, 1; 2014 OZ<sub>307</sub>, 4, 1, 0; 2014 OA<sub>308</sub>, 3, 1, 0; 2014 OB<sub>308</sub>, 3, 1, 0; 2014 OC<sub>308</sub>, 10, 3, 57; 2014 OH<sub>308</sub>, 3, 1, 0; 2014 OL<sub>308</sub>, 3, 1, 0; 2014 OM<sub>308</sub>, 4, 1, 0; 2014 OQ<sub>308</sub>, 6, 2, 1; 2014 OR<sub>308</sub>, 3, 1, 0; 2014 OT<sub>308</sub>, 3, 1, 0; 2014 OX<sub>308</sub>, 3, 1, 0; 2014 OW<sub>308</sub>, 8, 2, 56; 2014 OX<sub>308</sub>, 13, 4, 52; 2014 OY<sub>308</sub>, 19, 5, 63; 2014 OD<sub>309</sub>, 4, 1, 0; 2014 OF<sub>309</sub>, 8, 2, 14; 2014 OH<sub>309</sub>, 3, 1, 0; 2014 OK<sub>309</sub>, 6, 2, 4; 2014 OL<sub>309</sub>, 3, 1, 0; 2014 ON<sub>309</sub>, 3, 1, 0; 2014 OC<sub>310</sub>, 4, 1, 0; 2014 OE<sub>310</sub>, 10, 3, 936; 2014 OF<sub>310</sub>, 8, 2, 9; 2014 OG<sub>310</sub>, 3, 1, 0; 2014 OH<sub>310</sub>, 8, 2, 9; 2014 OL<sub>310</sub>, 3, 1, 0; 2014 OM<sub>310</sub>, 15, 4, 92; 2014 ON<sub>310</sub>, 13, 4, 92; 2014 OO<sub>310</sub>, 10, 3, 61; 2014 OP<sub>310</sub>, 3, 1, 0; 2014 OQ<sub>310</sub>, 3, 1, 0; 2014 OS<sub>310</sub>, 7, 2, 32; 2014 OX<sub>310</sub>, 8, 2, 59; 2014 OY<sub>310</sub>, 4, 1, 0; 2014 OZ<sub>310</sub>, 7, 2, 53; 2014 OA<sub>311</sub>, 6, 2, 53; 2014 OB<sub>311</sub>, 9, 2, 59; 2014 OD<sub>311</sub>, 13, 4, 61; 2014 OE<sub>311</sub>, 7, 2, 2; 2014 OF<sub>311</sub>, 4, 1, 0; 2014 OQ<sub>311</sub>, 11, 3, 59; 2014 OR<sub>311</sub>, 5, 2, 2; 2014 OS<sub>311</sub>, 12, 3, 57; 2014 OT<sub>311</sub>, 18, 4, 17; 2014 OU<sub>311</sub>, 8, 2, 2; 2014 OV<sub>311</sub>, 3, 1, 0; 2014 OW<sub>311</sub>, 4, 1, 0; 2014 OX<sub>311</sub>, 14, 4, 59; 2014 OZ<sub>311</sub>, 4, 1, 0; 2014 OD<sub>312</sub>, 11, 3, 11; 2014 OE<sub>312</sub>, 22, 6, 59; 2014 OG<sub>312</sub>, 3, 1, 0; 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3, 1, 0; 2014 OC<sub>315</sub>, 5, 2, 11; 2014 OK<sub>315</sub>, 10, 3, 66; 2014 OM<sub>315</sub>, 6, 1, 0; 2014 ON<sub>315</sub>, 7, 2, 10; 2014 OO<sub>315</sub>, 11, 3, 13; 2014 OR<sub>315</sub>, 8, 2, 30; 2014 OT<sub>315</sub>, 3, 1, 0; 2014 OW<sub>315</sub>, 2, 1, 0; 2014 OD<sub>316</sub>, 7, 2, 33; 2014 OJ<sub>316</sub>, 18, 3, 55; 2014 OM<sub>316</sub>, 11, 3, 57; 2014 ON<sub>316</sub>, 6, 2, 28; 2014 OC<sub>316</sub>, 7, 2, 56; 2014 OP<sub>316</sub>, 4, 1, 0; 2014 OQ<sub>316</sub>, 28, 7, 55; 2014 OU<sub>316</sub>, 12, 2, 1; 2014 OW<sub>316</sub>, 12, 3, 547; 2014 OX<sub>316</sub>, 6, 2, 863; 2014 OY<sub>316</sub>, 12, 3, 527; 2014 OZ<sub>316</sub>, 7, 2, 1; 2014 OB<sub>317</sub>, 8, 2, 11; 2014 OC<sub>317</sub>, 4, 1, 0; 2014 OD<sub>317</sub>, 10, 3, 28; 2014 OE<sub>317</sub>, 15, 3, 46; 2014 OF<sub>317</sub>, 4, 1, 0; 2014 OJ<sub>317</sub>, 16, 4, 46; 2014 OR<sub>317</sub>, 15, 3, 3; 2014 OS<sub>317</sub>, 11, 3, 3; 2014 OU<sub>317</sub>, 8, 3, 52; 2014 OV<sub>317</sub>, 9, 3, 4; 2014 OX<sub>317</sub>, 10, 3, 46; 2014 OY<sub>317</sub>, 14, 3, 25; 2014 OZ<sub>317</sub>, 11, 3, 3; 2014 OA<sub>318</sub>, 5, 2, 2; 2014 OB<sub>318</sub>, 3, 1, 0; 2014 OC<sub>318</sub>, 4, 1, 0; 2014 OG<sub>318</sub>, 7, 2, 2; 2014 OS<sub>318</sub>, 15, 4, 14; 2014 OT<sub>318</sub>, 10, 3, 45; 2014 OV<sub>318</sub>, 4, 1, 0; 2014 OX<sub>318</sub>, 7, 2, 21; 2014 OE<sub>319</sub>, 6, 2, 9; 2014 OG<sub>319</sub>, 3, 1, 0; 2014 OH<sub>319</sub>, 3, 1, 0; 2014 OR<sub>319</sub>, 5, 2, 55; 2014 OT<sub>319</sub>, 8, 2, 14; 2014 OX<sub>319</sub>, 3, 1, 0; 2014 OK<sub>320</sub>, 6, 2, 50; 2014 OC<sub>321</sub>, 3, 1, 0; 2014 OD<sub>321</sub>, 2, 1, 0; 2014 OG<sub>321</sub>, 7, 2, 28; 2014 OQ<sub>321</sub>, 5, 2, 28; 2014 OS<sub>321</sub>, 4, 1, 0; 2014 OY<sub>321</sub>, 3, 1, 0; 2014 OA<sub>322</sub>, 3, 1, 0; 2014 OB<sub>322</sub>, 3, 1, 0; 2014 OG<sub>322</sub>, 4, 1, 0; 2014 OT<sub>322</sub>, 7, 2, 21; 2014 OV<sub>322</sub>, 3, 1, 0; 2014 OW<sub>322</sub>, 7, 2, 5; 2014 OC<sub>323</sub>, 11, 2, 33; 2014 OD<sub>323</sub>, 3, 1, 0; 2014 OG<sub>323</sub>, 11, 3, 33; 2014 OM<sub>323</sub>, 8, 2, 2; 2014 ON<sub>323</sub>, 11, 3, 11; 2014 OO<sub>323</sub>, 3, 1, 0; 2014 OR<sub>323</sub>, 7, 2, 33; 2014 OS<sub>323</sub>, 14, 3, 924; 2014 OZ<sub>323</sub>, 4, 1, 0; 2014 OV<sub>323</sub>, 4, 1, 0; 2014 OH<sub>324</sub>, 11, 3, 891; 2014 OL<sub>324</sub>, 3, 1, 0; 2014 OF<sub>324</sub>, 6, 2, 2; 2014 OR<sub>324</sub>, 4, 1, 0; 2014 OU<sub>324</sub>, 4, 1, 0; 2014 OV<sub>324</sub>, 11, 3, 28; 2014 OY<sub>324</sub>, 7, 2, 9; 2014 OZ<sub>324</sub>, 4, 1, 0; 2014 OC<sub>325</sub>, 4, 1, 0; 2014 OG<sub>325</sub>, 15, 3, 11; 2014 OH<sub>325</sub>, 4, 1, 0; 2014 OM<sub>325</sub>, 10, 3, 60; 2014 ON<sub>325</sub>, 4, 1, 0; 2014 OQ<sub>325</sub>, 12, 3, 11; 2014 OS<sub>325</sub>, 12, 3, 11; 2014 OX<sub>325</sub>, 6, 1, 0; 2014 OZ<sub>325</sub>, 3, 1, 0; 2014 OF<sub>326</sub>, 8, 2, 2; 2014 OK<sub>326</sub>, 7, 2, 59; 2014 OM<sub>326</sub>, 10, 2, 50; 2014 ON<sub>326</sub>, 16, 5, 61; 2014 OP<sub>326</sub>, 11, 3, 6; 2014 OQ<sub>326</sub>, 3, 1, 0; 2014 OW<sub>326</sub>, 12, 3, 59; 2014 OX<sub>326</sub>, 3, 1, 0; 2014 OY<sub>326</sub>, 12, 3, 11; 2014 OZ<sub>326</sub>, 3, 1, 0; 2014 OE<sub>327</sub>, 8, 2, 53; 2014 OJ<sub>327</sub>, 18, 5, 61; 2014 OQ<sub>327</sub>, 10, 2, 4; 2014 OR<sub>327</sub>, 10, 3, 25; 2014 OS<sub>327</sub>, 3, 1, 0; 2014 OV<sub>327</sub>, 11, 3, 53; 2014 OZ<sub>327</sub>, 3, 1, 0; 2014 OF<sub>328</sub>, 4, 1, 0; 2014 OG<sub>328</sub>, 3, 1, 0; 2014 OH<sub>328</sub>, 15, 4, 56; 2014 OK<sub>328</sub>, 12, 3, 52; 2014 OP<sub>328</sub>, 13, 4, 511; 2014 OR<sub>328</sub>, 4, 1, 0; 2014 OT<sub>328</sub>, 6, 2, 2; 2014 OW<sub>328</sub>, 4, 1, 0; 2014 OY<sub>328</sub>, 8, 2, 2; 2014 OZ<sub>328</sub>, 3, 1, 0; 2014 OB<sub>329</sub>, 3, 1, 0; 2014 OE<sub>329</sub>, 6, 2, 59; 2014 OF<sub>329</sub>, 4, 1, 0; 2014 OK<sub>329</sub>, 10, 3, 55; 2014 OL<sub>329</sub>, 8, 2, 11; 2014 OM<sub>329</sub>, 4, 1, 0; 2014 ON<sub>329</sub>, 9, 3, 59; 2014 OO<sub>329</sub>, 5, 2, 51; 2014 OP<sub>329</sub>, 23, 6, 555; 2014 OT<sub>329</sub>, 10, 3, 11; 2014 OC<sub>330</sub>, 8, 2, 22; 2014 OF<sub>330</sub>, 4, 1, 0; 2014 OS<sub>330</sub>, 9, 3, 34; 2014 OT<sub>330</sub>, 4, 1, 0; 2014 OU<sub>330</sub>, 3, 1, 0; 2014 OX<sub>330</sub>, 4, 1, 0; 2014 OY<sub>330</sub>, 26, 5, 526; 2014 OZ<sub>330</sub>, 3, 1, 0; 2014 OB<sub>331</sub>, 8, 3, 61; 2014 OD<sub>331</sub>, 7, 2, 9; 2014 OF<sub>331</sub>, 4, 1, 0; 2014 OH<sub>331</sub>, 10, 3, 33; 2014 OJ<sub>331</sub>, 8, 2, 447; 2014 OL<sub>331</sub>, 6, 2, 2; 2014 OP<sub>331</sub>, 4, 1, 0; 2014 OB<sub>332</sub>, 10, 3, 55; 2014 OF<sub>332</sub>, 7, 1, 0; 2014 OO<sub>332</sub>, 3, 1, 0; 2014 OQ<sub>332</sub>, 7, 2, 21; 2014 OS<sub>332</sub>, 14, 4, 53; 2014 OT<sub>332</sub>, 6, 2, 27; 2014 OW<sub>332</sub>, 15, 4, 106; 2014 OA<sub>333</sub>, 12, 3, 55; 2014 OD<sub>333</sub>, 26, 7, 89; 2014 OE<sub>333</sub>, 14, 4, 932; 2014 OG<sub>333</sub>, 8, 2, 22; 2014 OQ<sub>333</sub>, 3, 1, 0; 2014 OR<sub>333</sub>, 7, 2, 852; 2014 OW<sub>333</sub>, 7, 2, 455; 2014 OX<sub>333</sub>, 4, 1, 0; 2014 OB<sub>334</sub>, 3, 1, 0; 2014 OD<sub>334</sub>, 7, 2, 28; 2014 OF<sub>334</sub>, 20, 6, 1029; 2014 OH<sub>334</sub>, 11, 3, 77; 2014 OK<sub>334</sub>, 3, 1, 0; 2014 OM<sub>334</sub>, 6, 2, 514; 2014 ON<sub>334</sub>, 11, 3, 60; 2014 OO<sub>334</sub>, 10, 3, 29; 2014 OP<sub>334</sub>, 8, 2, 5; 2014 OQ<sub>334</sub>, 6, 2, 9; 2014 OS<sub>334</sub>, 15, 4, 61; 2014 OT<sub>334</sub>, 7, 2, 2; 2014 OV<sub>334</sub>, 8, 2, 9; 2014 OZ<sub>334</sub>, 15, 4, 55; 2014 OY<sub>334</sub>, 4, 1, 0; 2014 OZ<sub>334</sub>, 12, 3, 51; 2014 OA<sub>335</sub>, 4, 1, 0; 2014 OB<sub>335</sub>, 6, 2, 2; 2014 OC<sub>335</sub>, 13, 4, 54; 2014 OF<sub>335</sub>, 4, 1, 0; 2014 OH<sub>335</sub>, 4, 1, 0; 2014 OY<sub>335</sub>, 3, 1, 0; 2014 OA<sub>336</sub>, 15, 4, 90; 2014 OB<sub>336</sub>, 27, 6, 100; 2014 OD<sub>336</sub>, 4, 1, 0; 2014 OP<sub>336</sub>, 14, 4, 59; 2014 OQ<sub>336</sub>, 3, 1, 0; 2014 OU<sub>336</sub>, 4, 1, 0; 2014 OX<sub>336</sub>, 3, 1, 0; 2014 OD<sub>337</sub>, 12, 3, 10; 2014 OE<sub>337</sub>, 4, 1, 0; 2014 OO<sub>337</sub>, 9, 3, 452; 2014 OT<sub>337</sub>, 4, 1, 0; 2014 OU<sub>337</sub>, 4, 1, 0; 2014 OV<sub>337</sub>, 9, 3, 52; 2014



2014 OG<sub>346</sub>, 4, 1, 0; 2014 OL<sub>346</sub>, 7, 2, 1; 2014 OM<sub>346</sub>, 8, 2, 1; 2014 OP<sub>346</sub>, 8, 2, 49; 2014 OR<sub>346</sub>, 17, 5, 50; 2014 OT<sub>346</sub>, 5, 2, 1; 2014 OV<sub>346</sub>, 14, 4, 50; 2014 OY<sub>346</sub>, 13, 4, 105; 2014 OZ<sub>346</sub>, 8, 2, 43; 2014 OB<sub>347</sub>, 4, 1, 0; 2014 OD<sub>347</sub>, 3, 1, 0; 2014 OJ<sub>347</sub>, 9, 3, 56; 2014 ON<sub>347</sub>, 13, 3, 48; 2014 OO<sub>347</sub>, 6, 2, 1; 2014 OR<sub>347</sub>, 4, 1, 0; 2014 OT<sub>347</sub>, 10, 3, 50; 2014 OU<sub>347</sub>, 12, 3, 48; 2014 OD<sub>348</sub>, 3, 1, 0; 2014 OM<sub>348</sub>, 13, 4, 80; 2014 OQ<sub>348</sub>, 19, 6, 80; 2014 OR<sub>348</sub>, 6, 2, 1; 2014 OS<sub>348</sub>, 4, 1, 0; 2014 OV<sub>348</sub>, 3, 1, 0; 2014 OW<sub>348</sub>, 15, 5, 105; 2014 OX<sub>348</sub>, 13, 4, 50; 2014 OB<sub>349</sub>, 19, 5, 50; 2014 OF<sub>349</sub>, 4, 1, 0; 2014 OK<sub>349</sub>, 11, 3, 49; 2014 OQ<sub>349</sub>, 11, 3, 50; 2014 OR<sub>349</sub>, 32, 8, 907; 2014 OT<sub>349</sub>, 13, 4, 44; 2014 OJ<sub>349</sub>, 31, 7, 510; 2014 OG<sub>350</sub>, 4, 1, 0; 2014 OJ<sub>350</sub>, 18, 5, 80; 2014 OM<sub>350</sub>, 6, 2, 1; 2014 ON<sub>350</sub>, 15, 3, 16; 2014 OQ<sub>350</sub>, 12, 4, 7; 2014 OW<sub>350</sub>, 20, 5, 33; 2014 OA<sub>351</sub>, 4, 1, 0; 2014 OF<sub>351</sub>, 8, 2, 1; 2014 OL<sub>351</sub>, 15, 4, 59; 2014 ON<sub>351</sub>, 27, 7, 53; 2014 OQ<sub>351</sub>, 4, 1, 0; 2014 OY<sub>351</sub>, 4, 1, 0; 2014 OZ<sub>351</sub>, 6, 2, 1; 2014 OA<sub>352</sub>, 3, 1, 0; 2014 OB<sub>352</sub>, 12, 2, 51; 2014 OD<sub>352</sub>, 6, 2, 1; 2014 OE<sub>352</sub>, 8, 2, 11; 2014 OF<sub>352</sub>, 10, 3, 45; 2014 OG<sub>352</sub>, 6, 2, 1; 2014 OM<sub>352</sub>, 3, 1, 0; 2014 ON<sub>352</sub>, 2, 1, 0; 2014 OQ<sub>352</sub>, 7, 2, 27; 2014 OS<sub>352</sub>, 6, 2, 1; 2014 OU<sub>352</sub>, 10, 3, 44; 2014 OZ<sub>352</sub>, 20, 4, 53; 2014 OA<sub>353</sub>, 8, 2, 1; 2014 OD<sub>353</sub>, 4, 1, 0; 2014 OE<sub>353</sub>, 12, 3, 45; 2014 OF<sub>353</sub>, 24, 7, 51; 2014 OJ<sub>353</sub>, 4, 1, 0; 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3, 5; 2014 OK<sub>375</sub>, 19, 4, 11; 2014 OL<sub>375</sub>, 14, 4, 55; 2014 OR<sub>375</sub>, 14, 4, 58; 2014 OT<sub>375</sub>, 18, 5, 55; 2014 OV<sub>375</sub>, 15, 3, 55; 2014 OY<sub>375</sub>, 8, 2, 1; 2014 OZ<sub>375</sub>, 18, 5, 78; 2014 OA<sub>376</sub>, 17, 5, 55; 2014 OB<sub>376</sub>, 22, 5, 61; 2014 OC<sub>376</sub>, 16, 4, 57; 2014 OD<sub>376</sub>, 11, 3, 13; 2014 ON<sub>376</sub>, 23, 6, 58; 2014 OR<sub>376</sub>, 14, 4, 11; 2014 OU<sub>376</sub>, 12, 3, 10; 2014 OV<sub>376</sub>, 17, 5, 57; 2014 OY<sub>376</sub>, 14, 3, 11; 2014 OZ<sub>376</sub>, 9, 3, 11; 2014 OA<sub>377</sub>, 10, 3, 48; 2014 OC<sub>377</sub>, 11, 3, 48; 2014 OE<sub>377</sub>, 7, 2, 10; 2014 OH<sub>377</sub>, 18, 5, 48; 2014 OJ<sub>377</sub>, 12, 3, 10; 2014 OK<sub>377</sub>, 3, 1, 0; 2014 OL<sub>377</sub>, 11, 3, 10; 2014 ON<sub>377</sub>, 15, 4, 57; 2014 OP<sub>377</sub>, 12, 4, 53; 2014 OQ<sub>377</sub>, 7, 2, 9; 2014 OS<sub>377</sub>, 18, 5, 43; 2014 OW<sub>377</sub>, 19, 5, 52; 2014 OX<sub>377</sub>, 21, 6, 85; 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2014 OT<sub>391</sub> \*, 4, 1, 0; 2014 OV<sub>391</sub> \*, 3, 1, 0; 2014 OV<sub>391</sub> \*, 11, 3, 24; 2014 OW<sub>391</sub> \*, 19, 8, 904; 2014 OX<sub>391</sub> \*, 3, 1, 0; 2014 OY<sub>391</sub> \*, 4, 1, 0; 2014 OZ<sub>391</sub> \*, 3, 1, 0; 2014 OA<sub>392</sub> \*, 3, 1, 0; 2014 OB<sub>392</sub> \*, 6, 2, 2; 2014 OC<sub>392</sub> \*, 4, 1, 0; 2014 OD<sub>392</sub> \*, 4, 1, 0; 2014 OE<sub>392</sub> \*, 8, 2, 2; 2014 OF<sub>392</sub> \*, 9, 3, 5; 2014 OG<



2, 28; 2014 PJ<sub>5</sub>, 3, 1, 0; 2014 PL<sub>5</sub>, 11, 3, 28; 2014 PO<sub>5</sub>, 14, 4, 33; 2014 PU<sub>5</sub>, 4, 1, 0; 2014 PV<sub>5</sub>, 7, 2, 36; 2014 PX<sub>5</sub>, 12, 3, 5; 2014 PY<sub>5</sub>, 2, 1, 0; 2014 PZ<sub>5</sub>, 17, 5, 48; 2014 PA<sub>6</sub>, 8, 2, 19; 2014 PB<sub>6</sub>, 28, 7, 84; 2014 PD<sub>6</sub>, 15, 4, 79; 2014 PE<sub>6</sub>, 18, 5, 80; 2014 PF<sub>6</sub>, 12, 3, 24; 2014 PG<sub>6</sub>, 14, 4, 72; 2014 PH<sub>6</sub>, 11, 3, 47; 2014 PJ<sub>6</sub>, 13, 4, 53; 2014 PL<sub>6</sub>, 25, 7, 919; 2014 PM<sub>6</sub>, 23, 5, 61; 2014 PN<sub>6</sub>, 13, 4, 24; 2014 PO<sub>6</sub>, 8, 2, 21; 2014 PQ<sub>6</sub>, 16, 5, 53; 2014 PR<sub>6</sub>, 20, 6, 82; 2014 PS<sub>6</sub>, 19, 5, 106; 2014 PV<sub>6</sub>, 15, 4, 53; 2014 PW<sub>6</sub>, 22, 6, 82; 2014 PY<sub>6</sub>, 19, 5, 45; 2014 PZ<sub>6</sub>, 17, 5, 61; 2014 PA<sub>7</sub>, 21, 5, 45; 2014 PB<sub>7</sub>, 14, 4, 51; 2014 PC<sub>7</sub>, 15, 5, 53; 2014 PD<sub>7</sub>, 31, 8, 83; 2014 PE<sub>7</sub>, 14, 4, 52; 2014 PF<sub>7</sub>, 12, 4, 24; 2014 PG<sub>7</sub>, 24, 6, 918; 2014 PK<sub>7</sub>, 14, 4, 945; 2014 PL<sub>7</sub>, 17, 4, 72; 2014 PO<sub>7</sub>, 14, 4, 906; 2014 PR<sub>7</sub>, 18, 5, 50; 2014 PS<sub>7</sub>, 14, 3, 49; 2014 PV<sub>7</sub>, 10, 2, 21; 2014 PW<sub>7</sub>, 14, 4, 28; 2014 PX<sub>7</sub>, 4, 1, 0; 2014 PY<sub>7</sub>, 14, 3, 534; 2014 PZ<sub>7</sub>, 28, 8, 85; 2014 PA<sub>8</sub>, 3, 1, 0; 2014 PL<sub>8</sub>, 15, 3, 29; 2014 PM<sub>8</sub>, 21, 7, 83; 2014 PN<sub>8</sub>, 18, 5, 20; 2014 PP<sub>8</sub>, 14, 4, 44; 2014 PQ<sub>8</sub>, 19, 4, 51; 2014 PS<sub>8</sub>, 23, 6, 67; 2014 PT<sub>8</sub>, 18, 5, 54; 2014 PW<sub>8</sub>, 19, 5, 48; 2014 PX<sub>8</sub>, 12, 4, 30; 2014 PZ<sub>8</sub>, 10, 3, 11; 2014 PB<sub>9</sub>, 11, 3, 33; 2014 PC<sub>9</sub>, 14, 4, 894; 2014 PD<sub>9</sub>, 11, 3, 83; 2014 PE<sub>9</sub>, 11, 3, 33; 2014 PF<sub>9</sub>, 4, 1, 0; 2014 PG<sub>9</sub>, 6, 2, 1; 2014 PH<sub>9</sub>, 10, 3, 21; 2014 PK<sub>9</sub>, 15, 4, 83; 2014 PL<sub>9</sub>, 20, 5, 31; 2014 PN<sub>9</sub>, 7, 2, 8; 2014 PO<sub>9</sub>, 8, 2, 6; 2014 PP<sub>9</sub>, 5, 2, 1; 2014 PQ<sub>9</sub>, 11, 3, 60; 2014 PT<sub>9</sub>, 19, 5, 58; 2014 PU<sub>9</sub>, 7, 2, 31; 2014 PV<sub>9</sub>, 8, 2, 10; 2014 PW<sub>9</sub>, 7, 2, 11; 2014 PZ<sub>9</sub>, 19, 5, 542; 2014 PA<sub>10</sub>, 18, 5, 33; 2014 PB<sub>10</sub>, 8, 2, 20; 2014 PD<sub>10</sub>, 6, 2, 7; 2014 PE<sub>10</sub>, 15, 4, 32; 2014 PF<sub>10</sub>, 11, 3, 33; 2014 PG<sub>10</sub>, 3, 1, 0; 2014 PH<sub>10</sub>, 4, 1, 0; 2014 PJ<sub>10</sub>, 27, 7, 33; 2014 PK<sub>10</sub>, 3, 1, 0; 2014 PL<sub>10</sub>, 11, 3, 12; 2014 PM<sub>10</sub>, 7, 2, 12; 2014 PN<sub>10</sub>, 3, 1, 0; 2014 PQ<sub>10</sub>, 12, 3, 33; 2014 PR<sub>10</sub>, 18, 4, 22; 2014 PS<sub>10</sub>, 26, 6, 897; 2014 PT<sub>10</sub>, 13, 4, 50; 2014 PU<sub>10</sub>, 5, 2, 12; 2014 PV<sub>10</sub>, 10, 3, 33; 2014 PW<sub>10</sub>, 18, 5, 33; 2014 PX<sub>10</sub>, 16, 4, 33; 2014 PY<sub>10</sub>, 16, 5, 50; 2014 PZ<sub>10</sub>, 6, 2, 12; 2014 PA<sub>11</sub>, 15, 4, 33; 2014 PC<sub>11</sub>, 13, 4, 33; 2014 PD<sub>11</sub>, 15, 4, 13; 2014 PE<sub>11</sub>, 3, 1, 0; 2014 PJ<sub>11</sub>, 11, 3, 21; 2014 PK<sub>11</sub>, 14, 4, 21; 2014 PL<sub>11</sub>, 15, 4, 32; 2014 PN<sub>11</sub>, 11, 3, 21; 2014 PO<sub>11</sub>, 22, 6, 83; 2014 PS<sub>11</sub>, 10, 3, 32; 2014 PT<sub>11</sub>, 20, 6, 33; 2014 PU<sub>11</sub>, 16, 4, 479; 2014 PV<sub>11</sub>, 19, 6, 59; 2014 PX<sub>11</sub>, 16, 3, 21; 2014 PZ<sub>11</sub>, 29, 8, 494; 2014 PA<sub>12</sub>, 7, 2, 11; 2014 PD<sub>12</sub>, 12, 4, 33; 2014 PE<sub>12</sub>, 23, 5, 33; 2014 PG<sub>12</sub>, 30, 7, 62; 2014 PK<sub>12</sub>, 12, 4, 33; 2014 PL<sub>12</sub>, 14, 4, 33; 2014 PM<sub>12</sub>, 11, 3, 33; 2014 PN<sub>12</sub>, 8, 2, 10; 2014 PO<sub>12</sub>, 14, 4, 33; 2014 PQ<sub>12</sub>, 12, 3, 33; 2014 PS<sub>12</sub>, 39, 8, 62; 2014 PU<sub>12</sub>, 9, 2, 10; 2014 PV<sub>12</sub>, 6, 2, 10; 2014 PW<sub>12</sub>, 10, 3, 22; 2014 PY<sub>12</sub>, 15, 4, 62; 2014 PZ<sub>12</sub>, 8, 3, 7; 2014 PA<sub>13</sub>, 14, 5, 33; 2014 PB<sub>13</sub>, 4, 1, 0; 2014 PC<sub>13</sub>, 4, 1, 0; 2014 PD<sub>13</sub>, 21, 5, 60; 2014 PG<sub>13</sub>, 8, 2, 8; 2014 PH<sub>13</sub>, 11, 3, 30; 2014 PM<sub>13</sub>, 12, 3, 21; 2014 PO<sub>13</sub>, 17, 5, 542; 2014 PP<sub>13</sub>, 14, 4, 33; 2014 PQ<sub>13</sub>, 4, 1, 0; 2014 PR<sub>13</sub>, 5, 2, 33; 2014 PU<sub>13</sub>, 22, 5, 85; 2014 PX<sub>13</sub>, 34, 7, 473; 2014 PY<sub>13</sub>, 12, 3, 21; 2014 PB<sub>14</sub>, 11, 3, 22; 2014 PC<sub>14</sub>, 14, 4, 33; 2014 PE<sub>14</sub>, 14, 4, 33; 2014 PF<sub>14</sub>, 3, 1, 0; 2014 PG<sub>14</sub>, 11, 3, 33; 2014 PH<sub>14</sub>, 10, 3, 33; 2014 PK<sub>14</sub>, 8, 3, 32; 2014 PL<sub>14</sub>, 15, 4, 33; 2014 PM<sub>14</sub>, 5, 2, 12; 2014 PO<sub>14</sub>, 2, 1, 0; 2014 PQ<sub>14</sub>, 16, 4, 32; 2014 PR<sub>14</sub>, 14, 4, 32; 2014 PS<sub>14</sub>, 15, 4, 22; 2014 PT<sub>14</sub>, 4, 1, 0; 2014 PU<sub>14</sub>, 3, 1, 0; 2014 PV<sub>14</sub>, 7, 2, 21; 2014 PX<sub>14</sub>, 15, 4, 32; 2014 PA<sub>15</sub>, 15, 3, 52; 2014 PB<sub>15</sub>, 12, 4, 32; 2014 PC<sub>15</sub>, 4, 1, 0; 2014 PD<sub>15</sub>, 17, 5, 33; 2014 PE<sub>15</sub>, 19, 5, 62; 2014 PF<sub>15</sub>, 14, 4, 12; 2014 PG<sub>15</sub>, 18, 5, 32; 2014 PH<sub>15</sub>, 11, 3, 33; 2014 PJ<sub>15</sub>, 12, 4, 33; 2014 PK<sub>15</sub>, 11, 3, 33; 2014 PL<sub>15</sub>, 6, 1, 0; 2014 PM<sub>15</sub>, 14, 3, 22; 2014 PN<sub>15</sub>, 12, 3, 33; 2014 PP<sub>15</sub>, 14, 4, 12; 2014 PQ<sub>15</sub>, 11, 3, 33; 2014 PR<sub>15</sub>, 11, 3, 26; 2014 PS<sub>15</sub>, 19, 5, 33; 2014 PT<sub>15</sub>, 11, 3, 11; 2014 PU<sub>15</sub>, 25, 7, 64; 2014 PV<sub>15</sub>, 18, 4, 33; 2014 PW<sub>15</sub>, 18, 5, 60; 2014 PX<sub>15</sub>, 18, 5, 52; 2014 PZ<sub>15</sub>, 10, 3, 22; 2014 PA<sub>16</sub>, 15, 5, 32; 2014 PB<sub>16</sub>, 11, 2, 33; 2014 PD<sub>16</sub>, 11, 4, 33; 2014 PE<sub>16</sub>, 15, 4, 33; 2014 PF<sub>16</sub>, 12, 3, 7; 2014 PJ<sub>16</sub>, 19, 5, 62; 2014 PK<sub>16</sub>, 20, 6, 33; 2014 PM<sub>16</sub>, 15, 4, 504; 2014 PN<sub>16</sub>, 14, 4, 39; 2014 PO<sub>16</sub>, 8, 2, 15; 2014 PQ<sub>16</sub>, 4, 1, 0; 2014 PR<sub>16</sub>, 12, 3, 34; 2014 PT<sub>16</sub>, 12, 3, 28; 2014 PU<sub>16</sub>, 14, 4, 33; 2014 PV<sub>16</sub>, 15, 4, 33; 2014 PW<sub>16</sub>, 4, 1, 0; 2014 PX<sub>16</sub>, 6, 2, 10; 2014 PZ<sub>16</sub>, 12, 4, 883; 2014 PB<sub>17</sub>, 11, 3, 33; 2014 PD<sub>17</sub>, 9, 3, 33; 2014 PE<sub>17</sub>, 26, 7, 924; 2014 PF<sub>17</sub>, 11, 3, 33; 2014 PG<sub>17</sub>, 13, 4, 33; 2014 PH<sub>17</sub>, 14, 4, 33; 2014 PJ<sub>17</sub>, 16, 4, 12; 2014 PK<sub>17</sub>, 18, 5, 33; 2014 PM<sub>17</sub>, 12, 4, 50; 2014 PN<sub>17</sub>, 23, 6, 33; 2014 PO<sub>17</sub>, 8, 2, 11; 2014 PP<sub>17</sub>, 15, 4, 31; 2014 PQ<sub>17</sub>, 4, 2, 21; 2014 PV<sub>17</sub>, 8, 2, 21; 2014 PW<sub>17</sub>, 18, 5, 33; 2014 PY<sub>17</sub>, 20, 6, 22; 2014 PZ<sub>17</sub>, 19, 5, 22; 2014 PA<sub>18</sub>, 19, 5, 33; 2014 PB<sub>18</sub>, 18, 5, 22; 2014 PC<sub>18</sub>, 8, 2, 33; 2014 PE<sub>18</sub>, 11, 3, 33; 2014 PF<sub>18</sub>, 10, 3, 53; 2014 PG<sub>18</sub>, 8, 2, 33; 2014 PH<sub>18</sub>, 3, 1, 0; 2014 PN<sub>18</sub>, 8, 2, 33; 2014 PO<sub>18</sub>, 5, 2, 31; 2014 PQ<sub>18</sub>, 7, 2, 20; 2014 PR<sub>18</sub>, 18, 5, 33; 2014 PT<sub>18</sub>, 8, 2, 23; 2014 PU<sub>18</sub>, 14, 4, 53; 2014 PV<sub>18</sub>, 10, 3, 38; 2014 PW<sub>18</sub>, 4, 1, 0; 2014 PZ<sub>18</sub>, 18, 5, 61; 2014 PA<sub>19</sub>, 6, 2, 3; 2014 PB<sub>19</sub>, 8, 2, 11; 2014 PC<sub>19</sub>, 23, 6, 927; 2014 PD<sub>19</sub>, 8, 2, 63; 2014 PE<sub>19</sub>, 7, 2, 11; 2014 PF<sub>19</sub>, 8, 2, 11; 2014 PG<sub>19</sub>, 11, 3, 32; 2014 PH<sub>19</sub>, 8, 2, 11; 2014 PO<sub>19</sub>, 19, 5, 39; 2014 PP<sub>19</sub>, 8, 2, 33; 2014 PR<sub>19</sub>, 23, 5, 33; 2014 PS<sub>19</sub>, 7, 2, 26; 2014 PV<sub>19</sub>, 10, 3, 38; 2014 PW<sub>19</sub>, 15, 3, 33; 2014 PX<sub>19</sub>, 3, 1, 0; 2014 PB<sub>20</sub>, 12, 2, 26; 2014 PD<sub>20</sub>, 14, 4, 588; 2014 PE<sub>20</sub>, 7, 2, 26; 2014 PM<sub>20</sub>, 8, 2, 11; 2014 PN<sub>20</sub>, 6, 2, 26; 2014 PO<sub>20</sub>, 15, 4, 39; 2014 PC<sub>20</sub>, 8, 2, 11; 2014 PQ<sub>20</sub>, 8, 2, 26; 2014 PS<sub>20</sub>, 8, 2, 3; 2014 PV<sub>20</sub>, 17, 4, 53; 2014 PZ<sub>20</sub>, 10, 3, 22; 2014 PA<sub>21</sub>, 5, 2, 15; 2014 PB<sub>21</sub>, 4, 1, 0; 2014 PC<sub>21</sub>, 10, 3, 40; 2014 PE<sub>21</sub>, 4, 1, 0; 2014 PK<sub>21</sub>, 9, 3, 15; 2014 PL<sub>21</sub>, 14, 4, 33; 2014 PM<sub>21</sub>, 13, 4, 33; 2014 PN<sub>21</sub>, 18, 5, 89; 2014 PP<sub>21</sub>, 8, 2, 26; 2014 PR<sub>21</sub>, 2, 1, 0; 2014 PS<sub>21</sub>, 10, 3, 22; 2014 PT<sub>21</sub>, 12, 3, 26; 2014 PU<sub>21</sub>, 11, 3, 39; 2014 PV<sub>21</sub>, 11, 3, 89; 2014 PW<sub>21</sub>, 4, 1, 0; 2014 PY<sub>21</sub>, 18, 5, 68; 2014 PZ<sub>21</sub>, 12, 4, 510; 2014 PB<sub>22</sub>, 7, 2, 57; 2014 PC<sub>22</sub>, 13, 4, 58; 2014 PE<sub>22</sub>, 12, 3, 55; 2014 PF<sub>22</sub>, 18, 5, 66; 2014 PG<sub>22</sub>, 12, 3, 33; 2014 PH<sub>22</sub>, 8, 2, 26; 2014 PN<sub>22</sub>, 17, 4, 900; 2014 PQ<sub>22</sub>, 15, 4, 517; 2014 PR<sub>22</sub>, 7, 2, 26; 2014 PS<sub>22</sub>, 13, 4, 39; 2014 PT<sub>22</sub>, 7, 2, 26; 2014 PU<sub>22</sub>, 19, 5, 601; 2014 PV<sub>22</sub>, 8, 2, 7; 2014 PZ<sub>22</sub>, 11, 3, 539; 2014 PA<sub>23</sub>, 10, 3, 7; 2014 PB<sub>23</sub>, 19, 5, 112; 2014 PD<sub>23</sub>, 4, 1, 0; 2014 PE<sub>23</sub>, 10, 3, 11; 2014 PF<sub>23</sub>, 13, 3, 21; 2014 PG<sub>23</sub>, 11, 3, 33; 2014 PK<sub>23</sub>, 7, 2, 7; 2014 PL<sub>23</sub>, 8, 2, 1; 2014 PN<sub>23</sub>, 23, 7, 55; 2014 PO<sub>23</sub>, 10, 3, 42; 2014 PR<sub>23</sub>, 8, 2, 7; 2014 PT<sub>23</sub>, 7, 2, 7; 2014 PU<sub>23</sub>, 12, 3, 28; 2014 PV<sub>23</sub>, 17, 5, 70; 2014 PY<sub>23</sub>, 10, 3, 49; 2014 PA<sub>24</sub>, 6, 2, 15; 2014 PC<sub>24</sub>, 4, 1, 0; 2014 PD<sub>24</sub>,

14, 4, 58; 2014 PF<sub>24</sub>, 4, 1, 0; 2014 PH<sub>24</sub>, 4, 1, 0; 2014 PK<sub>24</sub>, 19, 4, 48; 2014 PQ<sub>24</sub>, 14, 3, 55; 2014 PU<sub>24</sub>, 5, 2, 13; 2014 PV<sub>24</sub>, 12, 4, 70; 2014 PA<sub>25</sub>, 8, 2, 26; 2014 PB<sub>25</sub>, 13, 4, 557; 2014 PC<sub>25</sub>, 3, 1, 0; 2014 PE<sub>25</sub>, 12, 2, 26; 2014 PF<sub>25</sub>, 11, 3, 39; 2014 PG<sub>25</sub>, 10, 3, 53; 2014 PH<sub>25</sub>, 12, 3, 39; 2014 PL<sub>25</sub>, 10, 3, 89; 2014 PN<sub>25</sub>, 7, 2, 13; 2014 PP<sub>25</sub>, 4, 1, 0; 2014 PQ<sub>25</sub>, 4, 1, 0; 2014 PR<sub>25</sub>, 3, 1, 0; 2014 PV<sub>25</sub>, 8, 2, 26; 2014 PW<sub>25</sub>, 6, 2, 15; 2014 PY<sub>25</sub>, 11, 3, 22; 2014 PZ<sub>25</sub>, 8, 2, 13; 2014 PB<sub>26</sub>, 7, 2, 11; 2014 PD<sub>26</sub>, 3, 1, 0; 2014 PE<sub>26</sub>, 14, 4, 63; 2014 PF<sub>26</sub>, 10, 3, 26; 2014 PJ<sub>26</sub>, 8, 2, 8; 2014 PK<sub>26</sub>, 11, 3, 55; 2014 PG<sub>26</sub>, 12, 3, 61; 2014 PO<sub>26</sub>, 15, 4, 51; 2014 PP<sub>26</sub>, 9, 3, 61; 2014 PQ<sub>26</sub>, 5, 2, 13; 2014 PR<sub>26</sub>, 10, 3, 37; 2014 PV<sub>26</sub>, 10, 3, 34; 2014 PW<sub>26</sub>, 4, 1, 0; 2014 PX<sub>26</sub>, 15, 4, 68; 2014 PA<sub>27</sub>, 11, 3, 39; 2014 PC<sub>27</sub>, 17, 5, 532; 2014 PH<sub>27</sub>, 14, 3, 26; 2014 PK<sub>27</sub>, 23, 6, 942; 2014 PO<sub>27</sub>, 4, 1, 0; 2014 PW<sub>27</sub>, 8, 2, 23; 2014 PY<sub>27</sub>, 3, 1, 0; 2014 PZ<sub>27</sub>, 16, 3, 34; 2014 PB<sub>28</sub>, 12, 3, 30; 2014 PD<sub>28</sub>, 16, 5, 39; 2014 PE<sub>28</sub>, 15, 3, 28; 2014 PG<sub>28</sub>, 4, 1, 0; 2014 PH<sub>28</sub>, 10, 3, 1298; 2014 PJ<sub>28</sub>, 7, 2, 13; 2014 PK<sub>28</sub>, 6, 2, 28; 2014 PM<sub>28</sub>, 6, 2, 26; 2014 PN<sub>28</sub>, 15, 4, 39; 2014 PO<sub>28</sub>, 15, 3, 47; 2014 PS<sub>28</sub>, 11, 3, 39; 2014 PT<sub>28</sub>, 8, 2, 515; 2014 PW<sub>28</sub>, 4, 1, 0; 2014 PY<sub>28</sub>, 22, 5, 70; 2014 PZ<sub>28</sub>, 17, 4, 876; 2014 PA<sub>29</sub>, 13, 4, 39; 2014 PB<sub>29</sub>, 13, 4, 57; 2014 PC<sub>29</sub>, 11, 3, 39; 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2014 PG<sub>31</sub>, 12, 3, 28; 2014 PH<sub>31</sub>, 10, 3, 57; 2014 PJ<sub>31</sub>, 8, 2, 13; 2014 PK<sub>31</sub>, 10, 3, 11; 2014 PL<sub>31</sub>, 11, 3, 68; 2014 PM<sub>31</sub>, 4, 1, 0; 2014 PT<sub>31</sub>, 8, 2, 13; 2014 PV<sub>31</sub>, 4, 1, 0; 2014 PZ<sub>31</sub>, 4, 1, 0; 2014 PC<sub>32</sub>, 3, 1, 0; 2014 PD<sub>32</sub>, 6, 2, 13; 2014 PE<sub>32</sub>, 8, 2, 13; 2014 PF<sub>32</sub>, 9, 3, 63; 2014 PJ<sub>32</sub>, 13, 4, 470; 2014 PK<sub>32</sub>, 11, 3, 39; 2014 PL<sub>32</sub>, 4, 1, 0; 2014 PM<sub>32</sub>, 17, 5, 53; 2014 PO<sub>32</sub>, 22, 6, 925; 2014 PP<sub>32</sub>, 13, 4, 39; 2014 PS<sub>32</sub>, 4, 1, 0; 2014 PT<sub>32</sub>, 16, 4, 53; 2014 PW<sub>32</sub>, 4, 1, 0; 2014 PX<sub>32</sub>, 4, 1, 0; 2014 PY<sub>32</sub>, 14, 4, 34; 2014 PZ<sub>32</sub>, 9, 3, 26; 2014 PA<sub>33</sub>, 15, 4, 34; 2014 PD<sub>33</sub>, 21, 6, 66; 2014 PG<sub>33</sub>, 15, 4, 39; 2014 PH<sub>33</sub>, 15, 4, 917; 2014 PJ<sub>33</sub>, 3, 1, 0; 2014 PK<sub>33</sub>, 8, 2, 34; 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2014 PH<sub>35</sub>, 10, 3, 27; 2014 PK<sub>35</sub>, 7, 2, 33; 2014 PM<sub>35</sub>, 15, 4, 61; 2014 PN<sub>35</sub>, 6, 2, 1; 2014 PO<sub>35</sub>, 11, 3, 33; 2014 PP<sub>35</sub>, 17, 5, 33; 2014 PQ<sub>35</sub>, 15, 4, 924; 2014 PS<sub>35</sub>, 8, 2, 15; 2014 PT<sub>35</sub>, 14, 4, 33; 2014 PU<sub>35</sub>, 10, 2, 31; 2014 PV<sub>35</sub>, 10, 3, 22; 2014 PY<sub>35</sub>, 15, 4, 50; 2014 PZ<sub>35</sub>, 9, 3, 33; 2014 PA<sub>36</sub>, 19, 4, 913; 2014 PB<sub>36</sub>, 6, 2, 31; 2014 PC<sub>36</sub>, 14, 4, 34; 2014 PD<sub>36</sub>, 16, 5, 929; 2014 PE<sub>36</sub>, 15, 4, 64; 2014 PF<sub>36</sub>, 8, 2, 57; 2014 PG<sub>36</sub>, 9, 3, 57; 2014 PH<sub>36</sub>, 14, 4, 485; 2014 PK<sub>36</sub>, 15, 4, 34; 2014 PL<sub>36</sub>, 15, 3, 39; 2014 PM<sub>36</sub>, 6, 2, 15; 2014 PN<sub>36</sub>, 12, 3, 23; 2014 PO<sub>36</sub>, 14, 4, 33; 2014 PR<sub>36</sub>, 8, 2, 30; 2014 PV<sub>36</sub>, 7, 2, 2; 2014 PW<sub>36</sub>, 21, 6, 60; 2014 PX<sub>36</sub>, 14, 3, 26; 2014 PY<sub>36</sub>, 6, 2, 13; 2014 PZ<sub>36</sub>, 11, 3, 23; 2014 PA<sub>37</sub>, 4, 1, 0; 2014 PB<sub>37</sub>, 18, 3, 28; 2014 PS<sub>37</sub>, 11, 2, 13; 2014 PT<sub>37</sub>, 19, 5, 950; 2014 PW<sub>37</sub>, 4, 1, 0; 2014 PX<sub>37</sub>, 7, 2, 13; 2014 PY<sub>37</sub>, 4, 1, 0; 2014 PG<sub>38</sub>, 17, 5



2014 PW<sub>45</sub>, 7, 2, 33; 2014 PX<sub>45</sub>, 14, 4, 33; 2014 PY<sub>45</sub>, 14, 4, 33; 2014 PA<sub>46</sub>, 12, 3, 33; 2014 PB<sub>46</sub>, 8, 2, 21; 2014 PC<sub>46</sub>, 7, 2, 12; 2014 PF<sub>46</sub>, 18, 5, 33; 2014 PG<sub>46</sub>, 14, 4, 33; 2014 PH<sub>46</sub>, 3, 1, 0; 2014 PJ<sub>46</sub>, 4, 1, 0; 2014 PN<sub>46</sub>, 8, 2, 21; 2014 PO<sub>46</sub>, 20, 5, 52; 2014 PF<sub>46</sub>, 8, 2, 21; 2014 PQ<sub>46</sub>, 13, 4, 427; 2014 PR<sub>46</sub>, 19, 5, 33; 2014 PS<sub>46</sub>, 7, 2, 33; 2014 PT<sub>46</sub>, 12, 3, 33; 2014 PV<sub>46</sub>, 13, 4, 50; 2014 PE<sub>47</sub>, 6, 2, 13; 2014 PF<sub>47</sub>, 10, 3, 58; 2014 PG<sub>47</sub>, 5, 2, 58; 2014 PH<sub>47</sub>, 4, 1, 0; 2014 PJ<sub>47</sub>, 3, 1, 0; 2014 PL<sub>47</sub>, 11, 3, 13; 2014 PM<sub>47</sub>, 11, 3, 30; 2014 PN<sub>47</sub>, 4, 1, 0; 2014 PO<sub>47</sub>, 4, 1, 0; 2014 PQ<sub>47</sub>, 14, 5, 996; 2014 PU<sub>47</sub>, 10, 3, 58; 2014 PX<sub>47</sub>, 12, 4, 58; 2014 PY<sub>47</sub>, 17, 5, 39; 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2014 PD<sub>52</sub>, 16, 4, 34; 2014 PE<sub>52</sub>, 12, 3, 3; 2014 PF<sub>52</sub>, 12, 4, 24; 2014 PG<sub>52</sub>, 8, 2, 1; 2014 PH<sub>52</sub>, 3, 1, 0; 2014 PJ<sub>52</sub>, 19, 5, 36; 2014 PK<sub>52</sub>, 7, 2, 3; 2014 PL<sub>52</sub>, 8, 2, 46; 2014 PM<sub>52</sub>, 13, 4, 493; 2014 PO<sub>52</sub>, 15, 3, 26; 2014 PQ<sub>52</sub>, 19, 4, 28; 2014 PS<sub>52</sub>, 11, 3, 5; 2014 PV<sub>52</sub>, 7, 2, 25; 2014 PW<sub>52</sub>, 4, 1, 0; 2014 PX<sub>52</sub>, 7, 2, 1; 2014 PY<sub>52</sub>, 13, 3, 25; 2014 PZ<sub>52</sub>, 16, 4, 28; 2014 PA<sub>53</sub>, 9, 3, 25; 2014 PB<sub>53</sub>, 7, 2, 3; 2014 PC<sub>53</sub>, 11, 3, 3; 2014 PD<sub>53</sub>, 26, 7, 922; 2014 PE<sub>53</sub>, 8, 2, 6; 2014 PH<sub>53</sub>, 8, 2, 3; 2014 PO<sub>53</sub>, 11, 3, 25; 2014 PS<sub>53</sub>, 12, 3, 26; 2014 PQ<sub>53</sub>, 15, 3, 3; 2014 PR<sub>53</sub>, 15, 4, 26; 2014 PU<sub>53</sub>, 12, 2, 1; 2014 PB<sub>54</sub>, 8, 2, 1; 2014 PC<sub>54</sub>, 8, 2, 1; 2014 PH<sub>54</sub>, 11, 3, 9; 2014 PN<sub>54</sub>, 8, 2, 1; 2014 PO<sub>54</sub>, 11, 3, 28; 2014 PF<sub>54</sub>, 16, 4, 68; 2014 PG<sub>54</sub>, 3, 1, 0; 2014 PT<sub>54</sub>, 4, 1, 0; 2014 PY<sub>54</sub>, 12, 3, 3; 2014 PB<sub>55</sub>, 12, 3, 46; 2014 PC<sub>55</sub>, 15, 5, 38; 2014 PD<sub>55</sub>, 12, 3, 3; 2014 PE<sub>55</sub>, 11, 3, 26; 2014 PG<sub>55</sub>, 9, 3, 46; 2014 PH<sub>55</sub>, 11, 3, 47; 2014 PJ<sub>55</sub>, 8, 2, 1; 2014 PL<sub>55</sub>, 12, 3, 26; 2014 PN<sub>55</sub>, 7, 2, 6; 2014 PO<sub>55</sub>, 13, 4, 13; 2014 PP<sub>55</sub>, 14, 4, 47; 2014 PQ<sub>55</sub>, 17, 4, 47; 2014 PR<sub>55</sub>, 4, 1, 0; 2014 PS<sub>55</sub>, 10, 3, 57; 2014 PT<sub>55</sub>, 10, 3, 31; 2014 PU<sub>55</sub>, 12, 3, 882; 2014 PX<sub>55</sub>, 12, 3, 26; 2014 PY<sub>55</sub>, 14, 4, 25; 2014 PZ<sub>55</sub>, 4, 1, 0; 2014 PB<sub>56</sub>, 16, 4, 47; 2014 PC<sub>56</sub>, 12, 3, 47; 2014 PE<sub>56</sub>, 11, 2, 1; 2014 PF<sub>56</sub>, 11, 3, 3; 2014 PH<sub>56</sub>, 11, 3, 3; 2014 PJ<sub>56</sub>, 17, 4, 47; 2014 PK<sub>56</sub>, 21, 5, 31; 2014 PL<sub>56</sub>, 16, 4, 47; 2014 PN<sub>56</sub>, 11, 3, 26; 2014 PO<sub>56</sub>, 11, 3, 47; 2014 PP<sub>56</sub>, 7, 2, 3; 2014 PQ<sub>56</sub>, 16, 4, 47; 2014 PR<sub>56</sub>, 7, 2, 25; 2014 PS<sub>56</sub>, 7, 2, 1; 2014 PT<sub>56</sub>, 18, 5, 894; 2014 PU<sub>56</sub>, 8, 2, 1; 2014 PV<sub>56</sub>, 10, 2, 2; 2014 PY<sub>56</sub>, 11, 3, 10; 2014 PA<sub>57</sub>, 11, 3, 32; 2014 PC<sub>57</sub>, 11, 2, 1; 2014 PD<sub>57</sub>, 8, 2, 1; 2014 PE<sub>57</sub>, 8, 2, 1; 2014 PH<sub>57</sub>, 8, 2, 19; 2014 PN<sub>57</sub>, 7, 2, 1; 2014 PO<sub>57</sub>, 14, 4, 13; 2014 PX<sub>57</sub>, 8, 2, 24; 2014 PY<sub>57</sub>, 18, 5, 562; 2014 PZ<sub>57</sub>, 22, 6, 81; 2014 PA<sub>58</sub>, 14, 4, 4; 2014 PB<sub>58</sub>, 6, 3, 8; 2014 PE<sub>58</sub>, 7, 2, 58; 2014 PF<sub>58</sub>, 6, 2, 13; 2014 PG<sub>58</sub>, 8, 2, 58; 2014 PH<sub>58</sub>, 15, 4, 13; 2014 PJ<sub>58</sub>, 7, 2, 6; 2014 PQ<sub>58</sub>, 4, 1, 0; 2014 PR<sub>58</sub>, 11, 3, 16; 2014 PS<sub>58</sub>, 6, 1, 0; 2014 PT<sub>58</sub>, 4, 1, 0; 2014 PU<sub>58</sub>, 11, 3, 24; 2014 PV<sub>58</sub>, 8, 2, 14; 2014 PW<sub>58</sub>, 10, 3, 17; 2014 PX<sub>58</sub>, 4, 1, 0; 2014 PY<sub>58</sub>, 4, 1, 0; 2014 PZ<sub>58</sub>, 6, 2, 9; 2014 PA<sub>59</sub>, 3, 1, 0; 2014 PB<sub>59</sub>, 3, 1, 0; 2014 PC<sub>59</sub>, 4, 1, 0; 2014 PD<sub>59</sub>, 4, 1, 0; 2014 PE<sub>59</sub>, 11, 3, 32; 2014 PF<sub>59</sub>, 4, 1, 0; 2014 PG<sub>59</sub>, 18, 4, 30; 2014 PH<sub>59</sub>, 4, 1, 0; 2014 PJ<sub>59</sub>, 8, 2, 1; 2014 PK<sub>59</sub>, 7, 2, 1; 2014 PL<sub>59</sub>, 8, 2, 11; 2014 PO<sub>59</sub>, 17, 5, 83; 2014 PP<sub>59</sub>, 15, 5, 47; 2014 PQ<sub>59</sub>, 7, 2, 1; 2014 PR<sub>59</sub>, 11, 3, 17; 2014 PS<sub>59</sub>, 6, 1, 0; 2014 PT<sub>59</sub>, 6, 2, 8; 2014 PU<sub>59</sub>, 7, 2, 1; 2014 PV<sub>59</sub>, 14, 2, 1; 2014 PW<sub>59</sub>, 17, 6, 27; 2014 PX<sub>59</sub>, 7, 2, 1; 2014 PY<sub>59</sub>, 15, 3, 17; 2014 PZ<sub>59</sub>, 14, 4, 68; 2014 PB<sub>60</sub>, 18, 4, 20; 2014 PC<sub>60</sub>, 8, 2, 1; 2014 PD<sub>60</sub>, 6, 2, 1; 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2014 PP<sub>61</sub>, 8, 2, 1; 2014 PQ<sub>61</sub>, 6, 2, 1; 2014 PR<sub>61</sub>, 7, 2, 1; 2014 PS<sub>61</sub>, 7, 2, 1; 2014 PT<sub>61</sub>, 6, 2, 1; 2014 PU<sub>61</sub>, 5, 2, 1; 2014 PV<sub>61</sub>, 6, 2, 1; 2014 PW<sub>61</sub>, 6, 2, 1; 2014 PX<sub>61</sub>, 6, 2, 1; 2014 PY<sub>61</sub>, 7, 2, 1; 2014 PZ<sub>61</sub>, 8, 2, 1; 2014 PA<sub>62</sub>, 6, 2, 1; 2014 PB<sub>62</sub>, 7, 2, 1; 2014 PC<sub>62</sub>, 7, 2, 1; 2014 PD<sub>62</sub>, 8, 2, 1; 2014 PE<sub>62</sub>, 8, 2, 1; 2014 PF<sub>62</sub>, 7, 2, 1; 2014 PG<sub>62</sub>, 7, 2, 1; 2014 PH<sub>62</sub>, 22, 6, 50; 2014 PJ<sub>62</sub>, 7, 2, 1; 2014 PK<sub>62</sub>, 18, 5, 90; 2014 PL<sub>62</sub>, 8, 2, 1; 2014 PM<sub>62</sub>, 7, 2, 1; 2014 PN<sub>62</sub>, 7, 2, 1; 2014 PO<sub>62</sub>, 22, 5, 54; 2014 PP<sub>62</sub>, 6, 2, 1; 2014 PQ<sub>62</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 PS<sub>62</sub>, 8, 2, 18; 2014 PT<sub>62</sub>, 22, 6, 55; 2014 PU<sub>62</sub>, 22, 5, 30; 2014 PV<sub>62</sub>, 6, 2, 1; 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2, 1; 2014 PL<sub>63</sub>, 7, 2, 1; 2014 PM<sub>63</sub>, 7, 2, 1; 2014 PN<sub>63</sub>, 21, 6, 81; 2014 PO<sub>63</sub>, 22, 6, 65; 2014 PF<sub>63</sub>, 25, 7, 59; 2014 PG<sub>63</sub>, 7, 2, 1; 2014 PH<sub>63</sub>, 21, 6, 53; 2014 PJ<sub>63</sub>, 17, 5, 49; 2014 PT<sub>63</sub>, 7, 2, 1; 2014 PU<sub>63</sub>, 7, 2, 1; 2014 PV<sub>63</sub>, 7, 2, 1; 2014 PW<sub>63</sub>, 22, 5, 31; 2014 PX<sub>63</sub>, 17, 4, 55; 2014 PY<sub>63</sub>, 7, 2, 1; 2014 PZ<sub>63</sub>, 8, 2, 1; 2014 PA<sub>64</sub>, 19, 5, 12; 2014 PB<sub>64</sub>, 7, 2, 1; 2014 PC<sub>64</sub>, 8, 2, 1; 2014 PD<sub>64</sub>, 19, 5, 55; 2014 PE<sub>64</sub>, 12, 3, 11; 2014 PF<sub>64</sub>, 12, 3, 11; 2014 PG<sub>64</sub>, 13, 4, 11; 2014 PH<sub>64</sub>, 11, 3, 10; 2014 PJ<sub>64</sub>, 15, 6, 81; 2014 PK<sub>64</sub>, 7, 2, 1; 2014 PL<sub>64</sub>, 7, 2, 1; 2014 PM<sub>64</sub>, 6, 2, 1; 2014 PN<sub>64</sub>, 11, 2, 1; 2014 PO<sub>64</sub>, 8, 2, 1; 2014 PP<sub>64</sub>, 7, 2, 1; 2014 PQ<sub>64</sub>, 6, 2, 1; 2014 PR<sub>64</sub>, 8, 2, 1; 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6, 2, 1; 2014 QP<sub>28</sub> \*, 10, 3, 13; 2014 QQ<sub>28</sub> \*, 6, 2, 1; 2014 QR<sub>28</sub> \*, 7, 2, 1; 2014 QS<sub>28</sub> \*, 6, 2, 1; 2014 QT<sub>28</sub> \*, 6, 2, 1; 2014 QU<sub>28</sub> \*, 6, 2, 1; 2014 QV<sub>28</sub> \*, 6, 2, 1; 2014 QW<sub>28</sub> \*, 6, 2, 1; 2014 QX<sub>28</sub> \*, 7, 2, 1; 2014 QY<sub>28</sub> \*, 7, 2, 1; 2014 QZ<sub>28</sub> \*, 6, 2, 1; 2014 QA<sub>29</sub> \*, 14, 4, 24; 2014 QB<sub>29</sub> \*, 6, 2, 1; 2014 QC<sub>29</sub> \*, 7, 2, 1; 2014 QD<sub>29</sub> \*, 7, 2, 1; 2014 QE<sub>29</sub> \*, 9, 3, 2; 2014 QF<sub>29</sub> \*, 10, 3, 4; 2014 QG<sub>29</sub> \*, 18, 5, 16; 2014 QH<sub>29</sub> \*, 10, 3, 4; 2014 QJ<sub>29</sub> \*, 13, 4, 25; 2014 QK<sub>29</sub> \*, 11, 3, 13; 2014 QL<sub>29</sub> \*, 7, 2, 1; 2014 QM<sub>29</sub> \*, 10, 3, 13; 2014 QN<sub>29</sub> \*, 14, 4, 25; 2014 QO<sub>29</sub> \*, 7, 2, 1; 2014 QP<sub>29</sub> \*, 11, 4, 25; 2014 QQ<sub>29</sub> \*, 7, 2, 1; 2014 QR<sub>29</sub> \*, 13, 3, 13; 2014 QS<sub>29</sub> \*, 7, 2, 1; 2014 QT<sub>29</sub> \*, 10, 3, 13; 2014 QU<sub>29</sub> \*, 6, 2, 1; 2014 QV<sub>29</sub> \*, 7, 2, 1; 2014 QW<sub>29</sub> \*, 11, 3, 13; 2014 QX<sub>29</sub> \*, 19, 5, 52; 2014 QY<sub>29</sub> \*, 10, 3, 13; 2014 QZ<sub>29</sub> \*, 10, 3, 5; 2014 QA<sub>30</sub> \*, 7, 2, 1; 2014 QB<sub>30</sub> \*, 11, 3, 5; 2014 QC<sub>30</sub> \*, 10, 3, 13; 2014 QD<sub>30</sub> \*, 10, 3, 13; 2014 QE<sub>30</sub> \*, 12, 4, 25; 2014 QF<sub>30</sub> \*, 13, 4, 23; 2014 QG<sub>30</sub> \*, 5, 2, 1; 2014 QH<sub>30</sub> \*, 8, 2, 1; 2014 QJ<sub>30</sub> \*, 7, 2, 1; 2014 QK<sub>30</sub> \*, 8, 2, 1; 2014 QL<sub>30</sub> \*, 8, 2, 1; 2014 QM<sub>30</sub> \*, 16, 4, 15; 2014 QN<sub>30</sub> \*, 6, 2, 1; 2014 QO<sub>30</sub> \*, 6, 2, 1; 2014 QP<sub>30</sub> \*, 7, 2, 1; 2014 QQ<sub>30</sub> \*, 8, 2, 1; 2014 QR<sub>30</sub> \*, 8, 2, 1; 2014 QS<sub>30</sub> \*, 8, 2, 1; 2014 QT<sub>30</sub> \*, 8, 2, 1; 2014 QU<sub>30</sub> \*, 6, 2, 1; 2014 QV<sub>30</sub> \*, 7, 2, 1; 2014 QW<sub>30</sub> \*, 11, 3, 13; 2014 QX<sub>30</sub> \*, 5, 2, 1; 2014 QY<sub>30</sub> \*, 7, 2, 1; 2014 QZ<sub>30</sub> \*, 8, 2, 1; 2014 QA<sub>31</sub> \*, 7, 2, 1; 2014 QB<sub>31</sub> \*, 8, 2, 1; 2014 QC<sub>31</sub> \*, 7, 2, 1; 2014 QD<sub>31</sub> \*, 12, 2, 1; 2014 QE<sub>31</sub> \*, 7, 2, 1; 2014 QF<sub>31</sub> \*, 8, 2, 1; 2014 QG<sub>31</sub> \*, 8, 2, 1; 2014 QH<sub>31</sub> \*, 7, 2, 1; 2014 QI<sub>31</sub> \*, 7, 2, 1; 2014 QJ<sub>31</sub> \*, 7, 2, 1; 2014 QK<sub>31</sub> \*, 7, 2, 1; 2014 QL<sub>31</sub> \*, 16, 2, 1; 2014 QM<sub>31</sub> \*, 7, 2, 1; 2014 QN<sub>31</sub> \*, 7, 2, 1; 2014 QO<sub>31</sub> \*, 8, 2, 1; 2014 QP<sub>31</sub> \*, 7, 2, 1; 2014 QQ<sub>31</sub> \*, 7, 2, 1; 2014 QR<sub>31</sub> \*, 7, 2, 1; 2014 QS<sub>31</sub> \*, 8, 2, 1; 2014 QT<sub>31</sub> \*, 8, 2, 1; 2014 QU<sub>31</sub> \*, 6, 2, 1; 2014 QV<sub>31</sub> \*, 8, 2, 1; 2014 QW<sub>31</sub> \*, 8, 2, 1; 2014 QX<sub>31</sub> \*, 8, 2, 1; 2014 QY<sub>31</sub> \*, 6, 2, 1; 2014 QZ<sub>31</sub> \*, 6, 2, 1; 2014 QA<sub>32</sub> \*, 6, 2, 1; 2014 QB<sub>32</sub> \*, 7, 2, 1; 2014 QC<sub>32</sub> \*, 7, 2, 1; 2014 QD<sub>32</sub> \*, 13, 4, 10; 2014 QE<sub>32</sub> \*, 12, 2, 1; 2014 QF<sub>32</sub> \*, 10, 3, 62; 2014 QG<sub>32</sub> \*, 6, 2, 1; 2014 QH<sub>32</sub> \*, 11, 3, 5; 2014 QI<sub>32</sub> \*, 7, 2, 1; 2014 QJ<sub>32</sub> \*, 8, 2, 1; 2014 QK<sub>32</sub> \*, 8, 2, 1; 2014 QL<sub>32</sub> \*, 6, 2, 1; 2014 QM<sub>32</sub> \*, 11, 3, 3; 2014 QN<sub>32</sub> \*, 11, 3, 3; 2014 QO<sub>32</sub> \*, 3, 1, 0; 2014 QP<sub>32</sub> \*, 5, 2, 1; 2014 QQ<sub>32</sub> \*, 10, 2, 1; 2014 QR<sub>32</sub> \*, 8, 2, 8; 2014 QS<sub>32</sub> \*, 8, 2, 1; 2014 QT<sub>32</sub> \*, 12, 3, 56; 2014 QU<sub>32</sub> \*, 7, 2, 1; 2014 QV<sub>32</sub> \*, 11, 3, 7; 2014 QW<sub>32</sub> \*, 15, 3, 3; 2014 QX<sub>32</sub> \*, 7, 2, 1; 2014 QY<sub>32</sub> \*, 8, 2, 8; 2014 QZ<sub>32</sub> \*, 8, 2, 8; 2014 QA<sub>33</sub> \*, 3, 1, 0; 2014 QB<sub>33</sub> \*, 16, 3, 3; 2014 QC<sub>33</sub> \*, 3, 1, 0; 2014 QD<sub>33</sub> \*, 5, 2, 5; 2014 QE<sub>33</sub> \*, 7, 2, 41; 2014 QF<sub>33</sub> \*, 7, 2, 3; 2014 QG<sub>33</sub> \*, 12, 2, 63; 2014 QH<sub>33</sub> \*, 6, 2, 13; 2014 QI<sub>33</sub> \*, 7, 2, 1; 2014 QJ<sub>33</sub> \*, 11, 3, 28; 2014 QK<sub>33</sub> \*, 11, 3, 3; 2014 QL<sub>33</sub> \*, 10, 3, 3; 2014 QM<sub>33</sub> \*, 10, 3, 3; 2014 QN<sub>33</sub> \*, 10, 3, 3; 2014 QO<sub>33</sub> \*, 4, 1, 0; 2014 QP<sub>33</sub> \*, 3, 1, 0; 2014 QQ<sub>33</sub> \*, 10, 2, 5; 2014 QR<sub>33</sub> \*, 6, 2, 100; 2014 QS<sub>33</sub> \*, 3, 1, 0; 2014 QT<sub>33</sub> \*, 3, 1, 0; 2014 QU<sub>33</sub> \*, 3, 1, 0; 2014 QV<sub>33</sub> \*, 3, 1, 0; 2014 QW<sub>33</sub> \*, 3, 1, 0; 2014 QX<sub>33</sub> \*, 3, 1, 0; 2014 QY<sub>33</sub> \*, 10, 2, 1; 2014 QZ<sub>33</sub> \*, 19, 4, 18; 2014 QA<sub>34</sub> \*, 18, 5, 28; 2014 QB<sub>34</sub> \*, 35, 8, 59; 2014 QC<sub>34</sub> \*, 22, 6, 56; 2014 QD<sub>34</sub> \*, 19, 6, 59; 2014 QE<sub>34</sub> \*, 27, 5, 24; 2014 QF<sub>34</sub> \*, 7, 2, 4; 2014 QG<sub>34</sub> \*, 7, 2, 5; 2014 QH<sub>34</sub> \*, 8, 2, 5; 2014 QI<sub>34</sub> \*, 8, 2, 5; 2014 QJ<sub>34</sub> \*, 8, 2, 5; 2014 QK<sub>34</sub> \*, 7, 2, 4; 2014 QL<sub>34</sub> \*, 18, 4, 18; 2014 QM<sub>34</sub> \*, 5, 2, 4; 2014 QN<sub>34</sub> \*, 6, 2, 4; 2014 QO<sub>34</sub> \*, 6, 2, 5; 2014 QP<sub>34</sub> \*, 9, 3, 5; 2014 QQ<sub>34</sub> \*, 6, 2, 4; 2014 QR<sub>34</sub> \*, 7, 2, 4; 2014 QS<sub>34</sub> \*, 8, 2, 4; 2014 QT<sub>34</sub> \*, 12, 4, 24; 2014 QU<sub>34</sub> \*, 11, 3, 5; 2014 QV<sub>34</sub> \*, 11, 2, 4; 2014 QW<sub>34</sub> \*, 6, 2, 4; 2014 QX<sub>34</sub> \*, 19, 5, 80; 2014 QY<sub>34</sub> \*, 7, 2, 4; 2014 QZ<sub>34</sub> \*, 16, 5, 50; 2014 QA<sub>35</sub> \*, 8, 2, 4; 2014 QB<sub>35</sub> \*, 7, 2, 4; 2014 QC<sub>35</sub> \*, 16, 5, 45; 2014 QD<sub>35</sub> \*, 8, 2, 4; 2014 QE<sub>35</sub> \*, 7, 2, 5; 2014 QF<sub>35</sub> \*, 25, 7, 58; 2014 QG<sub>35</sub> \*, 6, 2, 4; 2014 QH<sub>35</sub> \*, 8, 2, 4; 2014 QI<sub>35</sub> \*, 24, 5, 24; 2014 QJ<sub>35</sub> \*, 26, 7, 59; 2014 QK<sub>35</sub> \*, 21, 6, 49; 2014 QL<sub>35</sub> \*, 23, 6, 49; 2014 QM<sub>35</sub> \*, 23, 6, 49; 2014 QN<sub>35</sub> \*, 26, 7, 59; 2014 QO<sub>35</sub> \*, 6, 2, 5; 2014 QP<sub>35</sub> \*, 5, 2, 5; 2014 QQ<sub>35</sub> \*, 7, 2, 5; 2014 QR<sub>35</sub> \*, 7, 2, 5; 2014 QS<sub>35</sub> \*, 8, 3, 5; 2014 QT<sub>35</sub> \*, 7, 2, 5; 2014 QU<sub>35</sub> \*, 7, 2, 4; 2014 QV<sub>35</sub> \*, 8, 2, 4; 2014 QW<sub>35</sub> \*, 8, 2, 4; 2014 QX<sub>35</sub> \*, 8, 2, 4; 2014 QY<sub>35</sub> \*, 7, 2, 4; 2014 QZ<sub>35</sub> \*, 8, 2, 4; 2014 QA<sub>36</sub> \*, 6, 2, 4; 2014 QB<sub>36</sub> \*, 6, 2, 4; 2014 QC<sub>36</sub> \*, 3, 1, 0; 2014 QD<sub>36</sub> \*, 8, 2, 5; 2014 QE<sub>36</sub> \*, 23, 6, 77; 2014 QF<sub>36</sub> \*, 8, 2, 4; 2014 QG<sub>36</sub> \*, 7, 2, 5; 2014 QH<sub>36</sub> \*, 6, 2, 4; 2014 QI<sub>36</sub> \*, 13, 4, 45; 2014 QJ<sub>36</sub> \*, 11, 4, 24; 2014 QK<sub>36</sub> \*, 7, 2, 4; 2014 QL<sub>36</sub> \*, 12, 2, 4; 2014 QM<sub>36</sub> \*, 15, 4, 53; 2014 QN<sub>36</sub> \*, 8, 2, 4; 2014 QO<sub>36</sub> \*, 7, 2, 4; 2014 QP<sub>36</sub> \*, 20, 5, 53; 2014 QR<sub>36</sub> \*, 8, 2, 5; 2014 QS<sub>36</sub> \*, 21, 6, 59; 2014 QT<sub>36</sub> \*, 21, 6, 51; 2014 QU<sub>36</sub> \*, 7, 2, 5; 2014 QV<sub>36</sub> \*, 14, 4, 11; 2014 QW<sub>36</sub> \*, 8, 2, 4; 2014 QX<sub>36</sub> \*, 8, 2, 5; 2014 QY<sub>36</sub> \*, 29, 8, 83; 2014 QZ<sub>36</sub> \*, 16, 4, 24; 2014 QA<sub>37</sub> \*, 6, 2, 4; 2014 QB<sub>37</sub> \*, 6, 2, 5; 2014 QC<sub>37</sub> \*, 6, 2, 5; 2014 QD<sub>37</sub> \*, 6, 2, 4; 2014 QE<sub>37</sub> \*, 6, 2, 5; 2014 QF<sub>37</sub> \*, 6, 2, 5; 2014 QG<sub>37</sub> \*, 7, 2, 4; 2014 QH<sub>37</sub> \*, 9, 2, 4; 2014 QI<sub>37</sub> \*, 7, 2, 4; 2014 QJ<sub>37</sub> \*, 24, 5, 53; 2014 QK<sub>37</sub> \*, 7, 2, 4; 2014 QL<sub>37</sub> \*, 7, 2, 4; 2014 QM<sub>37</sub> \*, 14, 4, 22; 2014 QN<sub>37</sub> \*, 6, 2, 4; 2014 QO<sub>37</sub> \*, 6, 2, 4; 2014 QP<sub>37</sub> \*, 17, 4, 45; 2014 QQ<sub>37</sub> \*, 7, 2, 4; 2014 QR<sub>37</sub> \*, 7, 2, 5; 2014 QS<sub>37</sub> \*, 6, 2, 4; 2014 QT<sub>37</sub> \*, 7, 2, 4; 2014 QU<sub>37</sub> \*, 10, 3, 6; 2014 QV<sub>37</sub> \*, 6, 2, 4; 2014 QW<sub>37</sub> \*, 14, 4, 9; 2014 QX<sub>37</sub> \*, 6, 2, 5; 2014 QY<sub>37</sub> \*, 16, 5, 28; 2014 QZ<sub>37</sub> \*, 25, 7, 83; 2014 QA<sub>38</sub> \*, 4, 2, 4; 2014 QB<sub>38</sub> \*, 20, 6, 138; 2014 QC<sub>38</sub> \*, 9, 2, 5; 2014 QD<sub>38</sub> \*, 6, 2, 4; 2014 QE<sub>38</sub> \*, 6, 2, 4; 2014 QF<sub>38</sub> \*, 4, 1, 0; 2014 QG<sub>38</sub> \*, 8, 2, 2; 2014 QH<sub>38</sub> \*, 6, 2, 4; 2014 QI<sub>38</sub> \*, 12, 2, 50; 2014 QJ<sub>38</sub> \*, 3, 1, 0; 2014 QK<sub>38</sub> \*, 3, 1, 0; 2014 QL<sub>38</sub> \*, 3, 1, 0; 2014 QM<sub>38</sub> \*, 7, 2, 1; 2014 QN<sub>38</sub> \*, 13, 4, 79; 2014 QO<sub>38</sub> \*, 15, 4, 47; 2014 QP<sub>38</sub> \*, 5, 2, 2; 2014 QR<sub>38</sub> \*, 7, 2, 3; 2014 QS<sub>38</sub> \*, 7, 2, 2; 2014 QT<sub>38</sub> \*, 8, 2, 3; 2014 QU<sub>38</sub> \*, 8, 2, 2; 2014 QV<sub>38</sub> \*, 7, 2, 3; 2014 QW<sub>38</sub> \*, 6, 2, 2; 2014 QX<sub>38</sub> \*, 10, 3, 3; 2014 QY<sub>38</sub> \*, 8, 2, 2; 2014 QZ<sub>38</sub> \*, 8, 2, 2; 2014 QA<sub>39</sub> \*, 8, 2, 3; 2014 QB<sub>39</sub> \*, 8, 2, 2; 2014 QC<sub>39</sub> \*, 8, 2, 3; 2014 QD<sub>39</sub> \*, 8, 2, 3; 2014 QE<sub>39</sub> \*, 7, 2, 2; 2014 QF<sub>39</sub> \*, 8, 2, 2; 2014 QG<sub>39</sub> \*, 8, 2, 2; 2014 QH<sub>39</sub> \*, 12, 3, 3; 2014 QI<sub>39</sub> \*, 7, 2, 2; 2014 QJ<sub>39</sub> \*, 11, 3, 3; 2014 QK<sub>39</sub> \*, 8, 2, 2; 2014 QL<sub>39</sub> \*, 8, 2, 2; 2014 QM<sub>39</sub> \*, 7, 2, 2; 2014 QN<sub>39</sub> \*, 7, 2, 2; 2014 QO<sub>39</sub> \*, 8, 2, 3; 2014 QP<sub>39</sub> \*, 6, 2, 2; 2014 QQ<sub>39</sub> \*, 5, 2, 2; 2014 QR<sub>39</sub> \*, 7, 2, 2; 2014 QS<sub>39</sub> \*, 7, 2, 2; 2014 QT<sub>39</sub> \*, 6, 2, 2; 2014 QU<sub>39</sub> \*, 7, 2, 3; 2014 QV<sub>39</sub> \*, 7, 2, 2; 2014 QW<sub>39</sub> \*, 10, 3, 3; 2014 QX<sub>39</sub> \*, 35, 7, 945; 2014 QY<sub>39</sub> \*, 7, 2, 4; 2014 QZ<sub>39</sub> \*, 7, 2, 4; 2014 QA<sub>40</sub> \*, 7, 2, 4; 2014 QB<sub>40</sub> \*, 7, 2, 2; 2014 QC<sub>40</sub> \*, 7, 2, 4; 2014 QD<sub>40</sub> \*, 16, 4, 4; 2014 QE<sub>40</sub> \*, 18, 5, 19; 2014 QF<sub>40</sub> \*, 7, 2,

2; 2014 QG<sub>40</sub> \*, 6, 2, 4; 2014 QH<sub>40</sub> \*, 12, 3, 5; 2014 QJ<sub>40</sub> \*, 14, 4, 4; 2014 QK<sub>40</sub> \*, 19, 6, 26; 2014 QL<sub>40</sub> \*, 18, 5, 17; 2014 QM<sub>40</sub> \*, 7, 2, 4; 2014 QN<sub>40</sub> \*, 10, 3, 4; 2014 QO<sub>40</sub> \*, 15, 4, 16; 2014 QP<sub>40</sub> \*, 19, 5, 13; 2014 QQ<sub>40</sub> \*, 8, 2, 4; 2014 QR<sub>40</sub> \*, 18, 5, 25; 2014 QS<sub>40</sub> \*, 6, 2, 1; 2014 QT<sub>40</sub> \*, 17, 5, 91; 2014 QU<sub>40</sub> \*, 3, 1, 0; 2014 QV<sub>40</sub> \*, 4, 1, 0; 2014 QW<sub>40</sub> \*, 6, 2, 1; 2014 QX<sub>40</sub> \*, 6, 2, 2; 2014 QY<sub>40</sub> \*, 8, 2, 1; 2014 QZ<sub>40</sub> \*, 10, 3, 2; 2014 QA<sub>41</sub> \*, 7, 2, 1; 2014 QB<sub>41</sub> \*, 7, 2, 1; 2014 QC<sub>41</sub> \*, 7, 2, 2; 2014 QD<sub>41</sub> \*, 7, 2, 1; 2014 QE<sub>41</sub> \*, 8, 2, 1; 2014 QF<sub>41</sub> \*, 6, 2, 1; 2014 QG<sub>41</sub> \*, 8, 2, 1; 2014 QH<sub>41</sub> \*, 7, 2, 1; 2014 QI<sub>41</sub> \*, 7, 2, 1; 2014 QJ<sub>41</sub> \*, 7, 2, 1; 2014 QK<sub>41</sub> \*, 8, 2, 2; 2014 QL<sub>41</sub> \*, 7, 2, 1; 2014 QM<sub>41</sub> \*, 6, 2, 1; 2014 QN<sub>41</sub> \*, 6, 2, 2; 2014 QO<sub>41</sub> \*, 7, 2, 2; 2014 QP<sub>41</sub> \*, 7, 2, 1; 2014 QQ<sub>41</sub> \*, 6, 2, 1; 2014 QR<sub>41</sub> \*, 8, 2, 1; 2014 QS<sub>41</sub> \*, 7, 2, 1; 2014 QT<sub>41</sub> \*, 7, 2, 1; 2014 QV<sub>41</sub> \*, 8, 2, 1; 2014 QW<sub>41</sub> \*, 8, 2, 1; 2014 QX<sub>41</sub> \*, 7, 2, 1; 2014 QY<sub>41</sub> \*, 7, 2, 1; 2014 QZ<sub>41</sub> \*, 6, 2, 2; 2014 QA<sub>42</sub> \*, 7, 2, 1; 2014 QB<sub>42</sub> \*, 8, 2, 3; 2014 QC<sub>42</sub> \*, 8, 2, 1; 2014 QD<sub>42</sub> \*, 6, 2, 3; 2014 QE<sub>42</sub> \*, 8, 2, 3; 2014 QF<sub>42</sub> \*, 7, 2, 1; 2014 QG<sub>42</sub> \*, 7, 2, 1; 2014 QH<sub>42</sub> \*, 11, 3, 3; 2014 QI<sub>42</sub> \*, 15, 4, 17; 2014 QJ<sub>42</sub> \*, 7, 2, 1; 2014 QK<sub>42</sub> \*, 10, 3, 3; 2014 QL<sub>42</sub> \*, 18, 5, 47; 2014 QM<sub>42</sub> \*, 11, 3, 16; 2014 QN<sub>42</sub> \*, 7, 2, 1; 2014 QO<sub>42</sub> \*, 7, 2, 1; 2014 QP<sub>42</sub> \*, 13, 4, 12; 2014 QQ<sub>42</sub> \*, 7, 2, 3; 2014 QR<sub>42</sub> \*, 7, 2, 3; 2014 QS<sub>42</sub> \*, 9, 3, 3; 2014 QT<sub>42</sub> \*, 7, 2, 1; 2014 QU<sub>42</sub> \*, 25, 7, 36; 2014 QV<sub>42</sub> \*, 7, 2, 3; 2014 QW<sub>42</sub> \*, 7, 2, 1; 2014 QX<sub>42</sub> \*, 8, 2, 10; 2014 QY<sub>42</sub> \*, 11, 3, 50; 2014 QZ<sub>42</sub> \*, 6, 2, 1; 2014 QA<sub>43</sub> \*, 19, 5, 103; 2014 QB<sub>43</sub> \*, 7, 2, 1; 2014 QC<sub>43</sub> \*, 10, 2, 1; 2014 QD<sub>43</sub> \*, 10, 2, 1; 2014 QE<sub>43</sub> \*, 8, 2, 1; 2014 QF<sub>43</sub> \*, 6, 2, 1; 2014 QG<sub>43</sub> \*, 7, 2, 1; 2014 QH<sub>43</sub> \*, 6, 2, 1; 2014 QI<sub>43</sub> \*, 8, 2, 1; 2014 QJ<sub>43</sub> \*, 7, 2, 1; 2014 QK<sub>43</sub> \*, 7, 2, 1; 2014 QL<sub>43</sub> \*, 8, 2, 1; 2014 QM<sub>43</sub> \*, 7, 2, 1; 2014 QN<sub>43</sub> \*, 6, 2, 1; 2014 QO<sub>43</sub> \*, 7, 2, 1; 2014 QP<sub>43</sub> \*, 8, 2, 1; 2014 QQ<sub>43</sub> \*, 5, 2, 1; 2014 QR<sub>43</sub> \*, 6, 2, 1; 2014 QS<sub>43</sub> \*, 7, 2, 1; 2014 QT<sub>43</sub> \*, 6, 2, 1; 2014 QU<sub>43</sub> \*, 7, 2, 1; 2014 QV<sub>43</sub> \*, 7, 2, 1; 2014 QW<sub>43</sub> \*, 7, 2, 1; 2014 QX<sub>43</sub> \*, 6, 2, 1; 2014 QY<sub>43</sub> \*, 7, 2, 1; 2014 QZ<sub>43</sub> \*, 7, 2, 1; 2014 QA<sub>44</sub> \*, 8, 2, 1; 2014 QB<sub>44</sub> \*, 8, 2, 1; 2014 QC<sub>44</sub> \*, 7, 2, 1; 2014 QD<sub>44</sub> \*, 8, 2, 1; 2014 QE<sub>44</sub> \*, 6, 2, 1; 2014 QF<sub>44</sub> \*, 6, 2, 1; 2014 QG<sub>44</sub> \*, 8, 2, 1; 2014 QH<sub>44</sub> \*, 6, 2, 1; 2014 QI<sub>44</sub> \*, 7, 2, 1; 2014 QJ<sub>44</sub> \*, 15, 2, 1; 2014 QK<sub>44</sub> \*, 5, 2, 1; 2014 QL<sub>44</sub> \*, 8, 2, 1; 2014 QM<sub>44</sub> \*, 8, 2, 1; 2014 QN<sub>44</sub> \*, 7, 2, 1; 2014 QO<sub>44</sub> \*, 8, 2, 1; 2014 QP<sub>44</sub> \*, 6, 2, 1; 2014 QR<sub>44</sub> \*, 6, 2, 1; 2014 QS<sub>44</sub> \*, 7, 2, 1; 2014 QT<sub>44</sub> \*, 8, 2, 1; 2014 QU<sub>44</sub> \*, 7, 2, 1; 2014 QV<sub>44</sub> \*, 6, 2, 1; 2014 QW<sub>44</sub> \*, 7, 2, 1; 2014 QX<sub>44</sub> \*, 6, 2, 1; 2014 QY<sub>44</sub> \*, 7, 2, 1; 2014 QZ<sub>44</sub> \*, 6, 2, 1; 2014 QA<sub>45</sub> \*, 8, 2, 1; 2014 QB<sub>45</sub> \*, 8, 2, 1; 2014 QC<sub>45</sub> \*, 7, 2, 1; 2014 QD<sub>45</sub> \*, 6, 2, 1; 2014 QE<sub>45</sub> \*, 7, 2, 1; 2014 QF<sub>45</sub> \*, 8, 2, 1; 2014 QG<sub>45</sub> \*, 7, 2, 1; 2014 QH<sub>45</sub> \*, 7, 2, 1; 2014 QI<sub>45</sub> \*, 6, 2, 1; 2014 QJ<sub>45</sub> \*, 6, 2, 1; 2014 QK<sub>45</sub> \*, 7, 2, 1; 2014 QL<sub>45</sub> \*, 5, 2, 1; 2014 QM<sub>45</sub> \*, 7, 2, 1; 2014 QN<sub>45</sub> \*, 5, 2, 1; 2014 QO<sub>45</sub> \*, 7, 2, 1; 2014 QP<sub>45</sub> \*, 7, 2, 1; 2014 QQ<sub>45</sub> \*, 7, 2, 1; 2014 QR<sub>45</sub> \*, 7, 2, 1; 2014 QS<sub>45</sub> \*, 8, 2, 1; 2014 QT<sub>45</sub> \*, 7, 2, 1; 2014 QU<sub>45</sub> \*, 7, 2, 1; 2014 QV<sub>45</sub> \*, 8, 2, 1; 2014 QW<sub>45</sub> \*, 8, 2, 1; 2014 QX<sub>45</sub> \*, 8, 2, 1; 2014 QY<sub>45</sub> \*, 6, 2, 1; 2014 QZ<sub>45</sub> \*, 6, 2, 1; 2014 QA<sub>46</sub> \*, 7, 2, 1; 2014 QB<sub>46</sub> \*, 8, 2, 1; 2014 QC<sub>46</sub> \*, 7, 2, 1; 2014 QD<sub>46</sub> \*, 7, 2, 1; 2014 QE<sub>46</sub> \*, 8, 2, 1; 2014 QF<sub>46</sub> \*, 8, 2, 1; 2014 QG<sub>46</sub> \*, 7, 2, 1; 2014 QH<sub>46</sub> \*, 8, 2, 1; 2014 QI<sub>46</sub> \*, 7, 2, 1; 2014 QJ<sub>46</sub> \*, 7, 2, 1; 2014 QK<sub>46</sub> \*, 7, 2, 1; 2014 QL<sub>46</sub> \*, 7, 2, 1; 2014 QM<sub>46</sub> \*, 7, 2, 1; 2014 QN<sub>46</sub> \*, 7, 2, 1; 2014 QO<sub>46</sub> \*, 7, 2, 1; 2014 QP<sub>46</sub> \*, 8, 2, 1; 2014 QQ<sub>46</sub> \*, 8, 2, 1; 2014 QR<sub>46</sub> \*, 6, 2, 1; 2014 QS<sub>46</sub> \*, 7, 2, 1; 2014 QT<sub>46</sub> \*, 6, 2, 1; 2014 QU<sub>46</sub> \*, 8, 2, 1; 2014 QV<sub>46</sub> \*, 7, 2, 1; 2014 QW<sub>46</sub> \*, 7, 2, 1; 2014 QX<sub>46</sub> \*, 17, 5, 53; 2014 QY<sub>46</sub> \*, 5, 2, 1; 2014 QZ<sub>46</sub> \*, 18, 5, 45; 2014 QA<sub>47</sub> \*, 17, 5, 24; 2014 QB<sub>47</sub> \*, 7, 2, 1; 2014 QC<sub>47</sub> \*, 7, 2, 1; 2014 QD<sub>47</sub> \*, 6, 2, 1; 2014 QE<sub>47</sub> \*, 8, 2, 1; 2014 QF<sub>47</sub> \*, 7, 2, 1; 2014 QG<sub>47</sub> \*, 17, 5, 79; 2014 QH<sub>47</sub> \*, 6, 2, 1; 2014 QI<sub>47</sub> \*, 6, 2, 1; 2014 QJ<sub>47</sub> \*, 8, 2, 1; 2014 QL<sub>47</sub> \*, 7, 2, 1; 2014 QM<sub>47</sub> \*, 6, 2, 1; 2014 QN<sub>47</sub> \*, 7, 2, 1; 2014 QO<sub>47</sub> \*, 7, 2, 1; 2014 QP<sub>47</sub> \*, 8, 2, 1; 2014 QQ<sub>47</sub> \*, 7, 2, 1; 2014 QR<sub>4</sub>



15, 3, 5; 2014 QE<sub>52</sub> \*, 7, 2, 1; 2014 QF<sub>52</sub> \*, 11, 4, 28; 2014 QG<sub>52</sub> \*, 6, 2, 1; 2014 QH<sub>52</sub> \*, 12, 3, 5; 2014 QJ<sub>52</sub> \*, 8, 2, 1; 2014 QK<sub>52</sub> \*, 8, 2, 1; 2014 QL<sub>52</sub> \*, 7, 2, 1; 2014 QM<sub>52</sub> \*, 21, 6, 110; 2014 QN<sub>52</sub> \*, 6, 2, 1; 2014 QO<sub>52</sub> \*, 7, 2, 1; 2014 QP<sub>52</sub> \*, 20, 5, 30; 2014 QQ<sub>52</sub> \*, 7, 2, 1; 2014 QR<sub>52</sub> \*, 5, 2, 1; 2014 QS<sub>52</sub> \*, 7, 2, 1; 2014 QT<sub>52</sub> \*, 7, 2, 1; 2014 QU<sub>52</sub> \*, 7, 2, 1; 2014 QV<sub>52</sub> \*, 6, 2, 1; 2014 QW<sub>52</sub> \*, 22, 6, 57; 2014 QX<sub>52</sub> \*, 7, 2, 1; 2014 QY<sub>52</sub> \*, 7, 2, 1; 2014 QZ<sub>52</sub> \*, 15, 4, 45; 2014 QA<sub>53</sub> \*, 24, 6, 49; 2014 QB<sub>53</sub> \*, 23, 7, 51; 2014 QC<sub>53</sub> \*, 7, 2, 1; 2014 QD<sub>53</sub> \*, 7, 2, 1; 2014 QE<sub>53</sub> \*, 7, 2, 1; 2014 QF<sub>53</sub> \*, 7, 2, 1; 2014 QG<sub>53</sub> \*, 15, 4, 9; 2014 QH<sub>53</sub> \*, 7, 2, 1; 2014 QJ<sub>53</sub> \*, 7, 2, 1; 2014 QK<sub>53</sub> \*, 16, 4, 28; 2014 QL<sub>53</sub> \*, 18, 6, 30; 2014 QM<sub>53</sub> \*, 6, 2, 1; 2014 QN<sub>53</sub> \*, 7, 2, 1; 2014 QO<sub>53</sub> \*, 8, 2, 1; 2014 QP<sub>53</sub> \*, 8, 2, 1; 2014 QQ<sub>53</sub> \*, 6, 2, 1; 2014 QR<sub>53</sub> \*, 7, 2, 1; 2014 QS<sub>53</sub> \*, 7, 2, 1; 2014 QT<sub>53</sub> \*, 6, 2, 1; 2014 QU<sub>53</sub> \*, 6, 2, 1; 2014 QV<sub>53</sub> \*, 8, 2, 1; 2014 QW<sub>53</sub> \*, 6, 2, 1; 2014 QX<sub>53</sub> \*, 8, 2, 1; 2014 QY<sub>53</sub> \*, 7, 2, 1; 2014 QZ<sub>53</sub> \*, 6, 2, 1; 2014 QA<sub>54</sub> \*, 7, 2, 1; 2014 QB<sub>54</sub> \*, 8, 2, 1; 2014 QC<sub>54</sub> \*, 20, 5, 55; 2014 QD<sub>54</sub> \*, 15, 4, 45; 2014 QE<sub>54</sub> \*, 7, 2, 1; 2014 QF<sub>54</sub> \*, 15, 4, 53; 2014 QG<sub>54</sub> \*, 8, 2, 1; 2014 QH<sub>54</sub> \*, 7, 2, 1; 2014 QJ<sub>54</sub> \*, 6, 2, 1; 2014 QK<sub>54</sub> \*, 7, 2, 1; 2014 QL<sub>54</sub> \*, 14, 4, 45; 2014 QM<sub>54</sub> \*, 8, 2, 1; 2014 QN<sub>54</sub> \*, 15, 2, 1; 2014 QO<sub>54</sub> \*, 6, 2, 1; 2014 QP<sub>54</sub> \*, 6, 2, 1; 2014 QQ<sub>54</sub> \*, 6, 2, 1; 2014 QR<sub>54</sub> \*, 8, 2, 1; 2014 QS<sub>54</sub> \*, 6, 2, 1; 2014 QT<sub>54</sub> \*, 7, 2, 1; 2014 QU<sub>54</sub> \*, 8, 2, 1; 2014 QV<sub>54</sub> \*, 8, 2, 1; 2014 QW<sub>54</sub> \*, 7, 2, 1; 2014 QX<sub>54</sub> \*, 6, 2, 1; 2014 QY<sub>54</sub> \*, 8, 2, 1; 2014 QZ<sub>54</sub> \*, 8, 2, 1; 2014 QA<sub>55</sub> \*, 27, 7, 53; 2014 QB<sub>55</sub> \*, 7, 2, 1; 2014 QC<sub>55</sub> \*, 10, 3, 5; 2014 QD<sub>55</sub> \*, 7, 2, 1; 2014 QE<sub>55</sub> \*, 6, 2, 1; 2014 QF<sub>55</sub> \*, 6, 2, 1; 2014 QG<sub>55</sub> \*, 7, 2, 1; 2014 QH<sub>55</sub> \*, 8, 2, 1; 2014 QJ<sub>55</sub> \*, 8, 2, 1; 2014 QK<sub>55</sub> \*, 8, 2, 1; 2014 QL<sub>55</sub> \*, 8, 2, 1; 2014 QM<sub>55</sub> \*, 4, 2, 1; 2014 QN<sub>55</sub> \*, 7, 2, 1; 2014 QO<sub>55</sub> \*, 8, 2, 1; 2014 QP<sub>55</sub> \*, 7, 2, 1; 2014 QS<sub>55</sub> \*, 9, 3, 24; 2014 QR<sub>55</sub> \*, 16, 5, 53; 2014 QS<sub>55</sub> \*, 19, 5, 45; 2014 QT<sub>55</sub> \*, 7, 2, 1; 2014 QU<sub>55</sub> \*, 8, 2, 1; 2014 QV<sub>55</sub> \*, 11, 3, 5; 2014 QW<sub>55</sub> \*, 7, 2, 1; 2014 QX<sub>55</sub> \*, 11, 3, 51; 2014 QY<sub>55</sub> \*, 7, 2, 1; 2014 QZ<sub>55</sub> \*, 10, 3, 53; 2014 QA<sub>56</sub> \*, 7, 2, 1; 2014 QB<sub>56</sub> \*, 7, 2, 1; 2014 QC<sub>56</sub> \*, 7, 2, 1; 2014 QD<sub>56</sub> \*, 8, 2, 1; 2014 QE<sub>56</sub> \*, 8, 2, 1; 2014 QF<sub>56</sub> \*, 8, 2, 1; 2014 QG<sub>56</sub> \*, 7, 2, 1; 2014 QH<sub>56</sub> \*, 7, 2, 1; 2014 QJ<sub>56</sub> \*, 7, 2, 1; 2014 QK<sub>56</sub> \*, 7, 2, 1; 2014 QL<sub>56</sub> \*, 16, 4, 77; 2014 QM<sub>56</sub> \*, 7, 2, 1; 2014 QN<sub>56</sub> \*, 7, 2, 1; 2014 QO<sub>56</sub> \*, 8, 2, 1; 2014 QP<sub>56</sub> \*, 6, 2, 1; 2014 QR<sub>56</sub> \*, 6, 2, 1; 2014 QS<sub>56</sub> \*, 8, 2, 1; 2014 QT<sub>56</sub> \*, 7, 2, 1; 2014 QU<sub>56</sub> \*, 5, 2, 1; 2014 QV<sub>56</sub> \*, 7, 2, 1; 2014 QW<sub>56</sub> \*, 7, 2, 1; 2014 QX<sub>56</sub> \*, 7, 2, 1; 2014 QY<sub>56</sub> \*, 8, 2, 1; 2014 QZ<sub>56</sub> \*, 14, 2, 1; 2014 QB<sub>57</sub> \*, 8, 2, 1; 2014 QC<sub>57</sub> \*, 7, 2, 1; 2014 QD<sub>57</sub> \*, 7, 2, 1; 2014 QE<sub>57</sub> \*, 7, 2, 1; 2014 QF<sub>57</sub> \*, 7, 2, 1; 2014 QG<sub>57</sub> \*, 7, 2, 1; 2014 QH<sub>57</sub> \*, 6, 2, 1; 2014 QJ<sub>57</sub> \*, 11, 3, 5; 2014 QK<sub>57</sub> \*, 7, 2, 1; 2014 QL<sub>57</sub> \*, 8, 2, 1; 2014 QM<sub>57</sub> \*, 8, 2, 1; 2014 QN<sub>57</sub> \*, 7, 2, 1; 2014 QO<sub>57</sub> \*, 17, 4, 45; 2014 QP<sub>57</sub> \*, 8, 2, 1; 2014 QQ<sub>57</sub> \*, 7, 2, 1; 2014 QR<sub>57</sub> \*, 7, 2, 1; 2014 QS<sub>57</sub> \*, 6, 2, 1; 2014 QT<sub>57</sub> \*, 8, 2, 1; 2014 QU<sub>57</sub> \*, 8, 2, 1; 2014 QV<sub>57</sub> \*, 7, 2, 1; 2014 QW<sub>57</sub> \*, 7, 2, 1; 2014 QX<sub>57</sub> \*, 6, 2, 1; 2014 QY<sub>57</sub> \*, 7, 2, 1; 2014 QZ<sub>57</sub> \*, 8, 2, 1; 2014 QA<sub>58</sub> \*, 7, 2, 1; 2014 QB<sub>58</sub> \*, 8, 2, 1; 2014 QC<sub>58</sub> \*, 8, 2, 1; 2014 QD<sub>58</sub> \*, 6, 2, 1; 2014 QE<sub>58</sub> \*, 8, 2, 1; 2014 QF<sub>58</sub> \*, 7, 2, 1; 2014 QG<sub>58</sub> \*, 7, 2, 1; 2014 QH<sub>58</sub> \*, 6, 2, 1; 2014 QJ<sub>58</sub> \*, 8, 2, 1; 2014 QK<sub>58</sub> \*, 7, 2, 1; 2014 QL<sub>58</sub> \*, 6, 2, 1; 2014 QM<sub>58</sub> \*, 8, 2, 1; 2014 QN<sub>58</sub> \*, 11, 3, 24; 2014 QO<sub>58</sub> \*, 7, 2, 1; 2014 QP<sub>58</sub> \*, 12, 3, 24; 2014 QR<sub>58</sub> \*, 8, 2, 1; 2014 QS<sub>58</sub> \*, 6, 2, 1; 2014 QT<sub>58</sub> \*, 7, 2, 1; 2014 QU<sub>58</sub> \*, 8, 2, 1; 2014 QV<sub>58</sub> \*, 8, 2, 1; 2014 QW<sub>58</sub> \*, 6, 2, 1; 2014 QX<sub>58</sub> \*, 13, 4, 45; 2014 QY<sub>58</sub> \*, 8, 2, 1; 2014 QZ<sub>58</sub> \*, 8, 2, 1; 2014 QA<sub>59</sub> \*, 7, 2, 1; 2014 QB<sub>59</sub> \*, 7, 2, 1; 2014 QC<sub>59</sub> \*, 7, 2, 1; 2014 QD<sub>59</sub> \*, 7, 2, 1; 2014 QE<sub>59</sub> \*, 7, 2, 1; 2014 QF<sub>59</sub> \*, 7, 2, 1; 2014 QG<sub>59</sub> \*, 7, 2, 1; 2014 QH<sub>59</sub> \*, 8, 2, 1; 2014 QJ<sub>59</sub> \*, 7, 2, 1; 2014 QK<sub>59</sub> \*, 7, 2, 1; 2014 QL<sub>59</sub> \*, 8, 2, 1; 2014 QM<sub>59</sub> \*, 8, 2, 1; 2014 QN<sub>59</sub> \*, 19, 5, 45; 2014 QO<sub>59</sub> \*, 7, 2, 1; 2014 QP<sub>59</sub> \*, 8, 2, 1; 2014 QR<sub>59</sub> \*, 7, 2, 1; 2014 QS<sub>59</sub> \*, 7, 2, 1; 2014 QT<sub>59</sub> \*, 7, 2, 1; 2014 QU<sub>59</sub> \*, 6, 2, 1; 2014 QV<sub>59</sub> \*, 7, 2, 1; 2014 QW<sub>59</sub> \*, 8, 2, 1; 2014 QX<sub>59</sub> \*, 7, 2, 1; 2014 QY<sub>59</sub> \*, 7, 2, 1; 2014 QZ<sub>59</sub> \*, 7, 2, 1; 2014 QA<sub>60</sub> \*, 8, 2, 1; 2014 QB<sub>60</sub> \*, 6, 2, 1; 2014 QC<sub>60</sub> \*, 6, 2, 1; 2014 QD<sub>60</sub> \*, 6, 2, 1; 2014 QE<sub>60</sub> \*, 7, 2, 1; 2014 QF<sub>60</sub> \*, 6, 2, 1; 2014 QG<sub>60</sub> \*, 7, 2, 1; 2014 QH<sub>60</sub> \*, 8, 2, 1; 2014 QJ<sub>60</sub> \*, 15, 5, 77; 2014 QK<sub>60</sub> \*, 7, 2, 1; 2014 QL<sub>60</sub> \*, 7, 2, 1; 2014 QM<sub>60</sub> \*, 8, 2, 1; 2014 QN<sub>60</sub> \*, 8, 2, 1; 2014 QO<sub>60</sub> \*, 7, 2, 1; 2014 QP<sub>60</sub> \*, 8, 2, 1; 2014 QR<sub>60</sub> \*, 7, 2, 1; 2014 QS<sub>60</sub> \*, 8, 2, 1; 2014 QT<sub>60</sub> \*, 7, 2, 1; 2014 QU<sub>60</sub> \*, 8, 2, 1; 2014 QV<sub>60</sub> \*, 7, 2, 1; 2014 QW<sub>60</sub> \*, 6, 2, 1; 2014 QX<sub>60</sub> \*, 7, 2, 1; 2014 QY<sub>60</sub> \*, 8, 2, 1; 2014 QZ<sub>60</sub> \*, 7, 2, 1; 2014 QA<sub>61</sub> \*, 8, 2, 1; 2014 QB<sub>61</sub> \*, 7, 2, 1; 2014 QC<sub>61</sub> \*, 7, 2, 1; 2014 QD<sub>61</sub> \*, 17, 4, 45; 2014 QE<sub>61</sub> \*, 8, 2, 1; 2014 QF<sub>61</sub> \*, 8, 2, 1; 2014 QG<sub>61</sub> \*, 8, 2, 1; 2014 QH<sub>61</sub> \*, 8, 2, 1; 2014 QJ<sub>61</sub> \*, 8, 2, 1; 2014 QK<sub>61</sub> \*, 7, 2, 1; 2014 QL<sub>61</sub> \*, 8, 2, 1; 2014 QM<sub>61</sub> \*, 16, 5, 51; 2014 QN<sub>61</sub> \*, 16, 4, 28; 2014 QO<sub>61</sub> \*, 7, 2, 1; 2014 QP<sub>61</sub> \*, 20, 6, 59; 2014 QQ<sub>61</sub> \*, 22, 6, 49; 2014 QR<sub>61</sub> \*, 7, 2, 1; 2014 QS<sub>61</sub> \*, 6, 2, 1; 2014 QT<sub>61</sub> \*, 16, 5, 49; 2014 QU<sub>61</sub> \*, 8, 2, 1; 2014 QV<sub>61</sub> \*, 8, 2, 1; 2014 QW<sub>61</sub> \*, 8, 2, 1; 2014 QX<sub>61</sub> \*, 15, 4, 7; 2014 QY<sub>61</sub> \*, 8, 2, 1; 2014 QZ<sub>61</sub> \*, 26, 7, 59; 2014 QA<sub>62</sub> \*, 18, 5, 30; 2014 QB<sub>62</sub> \*, 6, 2, 1; 2014 QC<sub>62</sub> \*, 20, 6, 55; 2014 QD<sub>62</sub> \*, 8, 2, 1; 2014 QE<sub>62</sub> \*, 8, 2, 1; 2014 QF<sub>62</sub> \*, 10, 3, 5; 2014 QG<sub>62</sub> \*, 8, 2, 1; 2014 QH<sub>62</sub> \*, 6, 2, 1; 2014 QJ<sub>62</sub> \*, 6, 2, 1; 2014 QK<sub>62</sub> \*, 7, 2, 1; 2014 QL<sub>62</sub> \*, 7, 2, 1; 2014 QM<sub>62</sub> \*, 17, 5, 59; 2014 QN<sub>62</sub> \*, 8, 2, 1; 2014 QO<sub>62</sub> \*, 7, 2, 1; 2014 QP<sub>62</sub> \*, 7, 2, 1; 2014 QR<sub>62</sub> \*, 20, 6, 60; 2014 QS<sub>62</sub> \*, 8, 2, 1; 2014 QT<sub>62</sub> \*, 6, 2, 1; 2014 QU<sub>62</sub> \*, 6, 2, 1; 2014 QV<sub>62</sub> \*, 17, 4, 30; 2014 QW<sub>62</sub> \*, 18, 4, 30; 2014 QX<sub>62</sub> \*, 8, 2, 1; 2014 QY<sub>62</sub> \*, 32, 8, 106; 2014 QZ<sub>62</sub> \*, 8, 2, 1; 2014 QA<sub>63</sub> \*, 8, 2, 1; 2014 QB<sub>63</sub> \*, 8, 2, 1; 2014 QC<sub>63</sub> \*, 7, 2, 1; 2014 QD<sub>63</sub> \*, 6, 2, 1; 2014 QE<sub>63</sub> \*, 13, 4, 27; 2014 QF<sub>63</sub> \*, 15, 4, 29; 2014 QG<sub>63</sub> \*, 6, 2, 1; 2014 QH<sub>63</sub> \*, 7, 2, 1; 2014 QJ<sub>63</sub> \*, 7, 2, 1; 2014 QK<sub>63</sub> \*, 6, 2, 1; 2014 QL<sub>63</sub> \*, 11, 3, 5; 2014 QM<sub>63</sub> \*, 7, 2, 1; 2014 QN<sub>63</sub> \*, 7, 2, 1; 2014 QO<sub>63</sub> \*, 15, 5, 30; 2014 QP<sub>63</sub> \*, 7, 2, 1; 2014 QQ<sub>63</sub> \*, 7, 2, 1; 2014 QR<sub>63</sub> \*, 6, 2, 1; 2014 QS<sub>63</sub> \*, 6, 2, 1; 2014 QT<sub>63</sub> \*, 7, 2, 1; 2014 QU<sub>63</sub> \*,

6, 2, 1; 2014 QV<sub>63</sub> \*, 7, 2, 1; 2014 QW<sub>63</sub> \*, 16, 5, 86; 2014 QX<sub>63</sub> \*, 6, 2, 1; 2014 QY<sub>63</sub> \*, 6, 2, 1; 2014 QZ<sub>63</sub> \*, 7, 2, 1; 2014 QA<sub>64</sub> \*, 11, 4, 24; 2014 QB<sub>64</sub> \*, 6, 2, 1; 2014 QC<sub>64</sub> \*, 7, 2, 1; 2014 QD<sub>64</sub> \*, 5, 2, 1; 2014 QE<sub>64</sub> \*, 7, 2, 1; 2014 QF<sub>64</sub> \*, 6, 2, 1; 2014 QG<sub>64</sub> \*, 7, 2, 1; 2014 QH<sub>64</sub> \*, 7, 2, 1; 2014 QJ<sub>64</sub> \*, 7, 2, 1; 2014 QK<sub>64</sub> \*, 7, 2, 1; 2014 QL<sub>64</sub> \*, 6, 2, 1; 2014 QM<sub>64</sub> \*, 6, 2, 1; 2014 QN<sub>64</sub> \*, 6, 2, 1; 2014 QO<sub>64</sub> \*, 15, 4, 24; 2014 QP<sub>64</sub> \*, 7, 2, 1; 2014 QQ<sub>64</sub> \*, 6, 2, 1; 2014 QR<sub>64</sub> \*, 7, 2, 1; 2014 QS<sub>64</sub> \*, 6, 2, 1; 2014 QT<sub>64</sub> \*, 7, 2, 1; 2014 QU<sub>64</sub> \*, 7, 2, 1; 2014 QV<sub>64</sub> \*, 5, 2, 1; 2014 QW<sub>64</sub> \*, 5, 2, 1; 2014 QX<sub>64</sub> \*, 7, 2, 1; 2014 QY<sub>64</sub> \*, 20, 5, 59; 2014 QZ<sub>64</sub> \*, 24, 7, 57; 2014 QA<sub>65</sub> \*, 6, 2, 1; 2014 QB<sub>65</sub> \*, 7, 2, 1; 2014 QC<sub>65</sub> \*, 6, 2, 1; 2014 QD<sub>65</sub> \*, 7, 2, 1; 2014 QE<sub>65</sub> \*, 7, 2, 1; 2014 QF<sub>65</sub> \*, 7, 2, 1; 2014 QG<sub>65</sub> \*, 7, 2, 1; 2014 QH<sub>65</sub> \*, 7, 2, 1; 2014 QJ<sub>65</sub> \*, 6, 2, 1; 2014 QK<sub>65</sub> \*, 6, 2, 1; 2014 QL<sub>65</sub> \*, 6, 2, 1; 2014 QM<sub>65</sub> \*, 7, 2, 1; 2014 QN<sub>65</sub> \*, 7, 2, 1; 2014 QO<sub>65</sub> \*, 6, 2, 1; 2014 QP<sub>65</sub> \*, 7, 2, 1; 2014 QQ<sub>65</sub> \*, 6, 2, 1; 2014 QR<sub>65</sub> \*, 7, 2, 1; 2014 QS<sub>65</sub> \*, 6, 2, 1; 2014 QT<sub>65</sub> \*, 7, 2, 1; 2014 QU<sub>65</sub> \*, 6, 2, 1; 2014 QV<sub>65</sub> \*, 7, 2, 1; 2014 QW<sub>65</sub> \*, 6, 2, 1; 2014 QX<sub>65</sub> \*, 6, 2, 1; 2014 QY<sub>65</sub> \*, 6, 2, 1; 2014 QZ<sub>65</sub> \*, 17, 5, 45; 2014 QA<sub>66</sub> \*, 7, 2, 1; 2014 QB<sub>66</sub> \*, 7, 2, 1; 2014 QC<sub>66</sub> \*, 6, 2, 1; 2014 QD<sub>66</sub> \*, 7, 2, 1; 2014 QE<sub>66</sub> \*, 7, 2, 1; 2014 QF<sub>66</sub> \*, 7, 2, 1; 2014 QG<sub>66</sub> \*, 7, 2, 1; 2014 QH<sub>66</sub> \*, 7, 2, 1; 2014 QJ<sub>66</sub> \*, 18, 5, 11; 2014 QK<sub>66</sub> \*, 6, 2, 1; 2014 QL<sub>66</sub> \*, 14, 4, 6; 2014 QM<sub>66</sub> \*, 6, 2, 1; 2014 QN<sub>66</sub> \*, 7, 2, 1; 2014 QO<sub>66</sub> \*, 7, 2, 1; 2014 QP<sub>66</sub> \*, 7, 2, 1; 2014 QQ<sub>66</sub> \*, 6, 2, 1; 2014 QR<sub>66</sub> \*, 14, 4, 7; 2014 QS<sub>66</sub> \*, 5, 2, 1; 2014 QT<sub>66</sub> \*, 16, 5, 54; 2014 QU<sub>66</sub> \*, 6, 2, 1; 2014 QV<sub>66</sub> \*, 5, 2, 1; 2014 QW<sub>66</sub> \*, 5, 2, 1; 2014 QX<sub>66</sub> \*, 6, 2, 1; 2014 QY<sub>66</sub> \*, 6, 2, 1; 2014 QZ<sub>66</sub> \*, 5, 2, 1; 2014 QA<sub>67</sub> \*, 7, 2, 1; 2014 QB<sub>67</sub> \*, 6, 2, 1; 2014 QC<sub>67</sub> \*, 8, 2, 1; 2014 QD<sub>67</sub> \*, 7, 2, 1; 2014 QE<sub>67</sub> \*, 7, 2, 1; 2014 QF<sub>67</sub> \*, 7, 2, 1; 2014 QG<sub>67</sub> \*, 6, 2, 1; 2014 QH<sub>67</sub> \*, 7, 2, 1; 2014 QJ<sub>67</sub> \*, 7, 2, 1; 2014 QK<sub>67</sub> \*, 8, 2, 1; 2014 QL<sub>67</sub> \*, 8, 2, 1; 2014 QM<sub>67</sub> \*, 7, 2, 1; 2014 QN<sub>67</sub> \*, 7, 2, 1; 2014 QO<sub>67</sub> \*, 6, 2, 1; 2014 QP<sub>67</sub> \*, 8, 2, 1; 2014 QR<sub>67</sub> \*, 7, 2, 1; 2014 QS<sub>67</sub> \*, 7, 2, 1; 2014 QT<sub>67</sub> \*, 7, 2, 1; 2014 QU<sub>67</sub> \*, 6, 2, 1; 2014 QV<sub>67</sub> \*, 7, 2, 1; 2014 QW<sub>67</sub> \*, 6, 2, 1; 2014 QX<sub>67</sub> \*, 7, 2, 1; 2014 QY<sub>67</sub> \*, 6, 2, 1; 2014 QZ<sub>67</sub> \*, 7, 2, 1; 2014 QA<sub>68</sub> \*, 7, 2, 1; 2014 QB<sub>68</sub> \*, 7, 2, 1; 2014 QC<sub>68</sub> \*, 6, 2, 1; 2014 QD<sub>68</sub> \*, 6, 2, 1; 2014 QE<sub>68</sub> \*, 8, 2, 1; 2014 QF<sub>68</sub> \*, 8, 2, 1; 2014 QG<sub>68</sub> \*, 7, 2, 1; 2014 QH<sub>68</sub> \*, 8, 2, 1; 2014 QJ<sub>68</sub> \*, 7, 2, 1; 2014 QK<sub>68</sub> \*, 7, 2, 1; 2014 QL<sub>68</sub> \*, 7, 2, 1; 2014 QM<sub>68</sub> \*, 6, 2, 1; 2014 QN<sub>68</sub> \*, 7, 2, 1; 2014 QO<sub>68</sub> \*, 8, 2, 1; 2014 QP<sub>68</sub> \*, 8, 2, 1; 2014 QQ<sub>68</sub> \*, 6, 2, 1; 2014 QR<sub>68</sub> \*, 7, 2, 1; 2014 QS<sub>68</sub> \*, 6, 2, 1; 2014 QT<sub>68</sub> \*, 7, 2, 1; 2014 QU<sub>68</sub> \*, 7, 2, 1; 2014 QV<sub>68</sub> \*, 8, 2, 1; 2014 QW<sub>68</sub> \*, 5, 2, 1; 2014 QX<sub>68</sub> \*, 7, 2, 1; 2014 QY<sub>68</sub> \*, 15, 2, 1; 2014 QZ<sub>68</sub> \*, 8, 2, 1; 2014 QA<sub>69</sub> \*, 8, 2, 1; 2014 QB<sub>69</sub> \*, 7, 2, 1; 2014 QC<sub>69</sub> \*, 8, 2, 1; 2014 QD<sub>69</sub> \*, 7, 2, 1; 2014 QE<sub>69</sub> \*, 6, 2, 1; 2014 QF<sub>69</sub> \*, 5, 2, 1; 2014 QG<sub>69</sub> \*, 7, 2, 1; 2014 QH<sub>69</sub> \*, 6, 2, 1; 2014 QJ<sub>69</sub> \*, 7, 2, 1; 2014 QK<sub>69</sub> \*, 7, 2, 1; 2014 QL<sub>69</sub> \*, 7, 2, 1; 2014 QM<sub>69</sub> \*, 7, 2, 1; 2014 QN<sub>69</sub> \*, 7, 2, 1; 2014 QO<sub>69</sub> \*, 7, 2, 1; 2014 QP<sub>69</sub> \*, 7, 2, 1; 2014 QR<sub>69</sub> \*, 7, 2, 1; 2014 QS<sub>69</sub> \*, 7, 2, 1; 2014 QT<sub>69</sub> \*, 8, 2, 1; 2014 QU<sub>69</sub> \*, 7, 2, 1; 2014 QV<sub>69</sub> \*, 7, 2, 1; 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2, 2, 1; 2014 QV<sub>75</sub> \*, 8, 2, 1; 2014 QW<sub>75</sub> \*, 8, 2, 1; 2014 QX<sub>75</sub> \*, 7, 2, 1; 2014 QY<sub>75</sub> \*, 8, 2, 1; 2014 QZ<sub>75</sub> \*, 7, 2, 1; 2014 QA<sub>76</sub> \*, 8, 2, 1; 2014 QB<sub>76</sub> \*, 8, 2, 1; 2014 QC<sub>76</sub> \*, 5, 2, 1; 2014 QD<sub>76</sub> \*, 8, 2, 1; 2014 QE<sub>76</sub> \*, 7, 2, 1; 2014 QF<sub>76</sub> \*, 7, 2, 1; 2014 QG<sub>76</sub> \*, 7, 2, 1; 2014 QH<sub>76</sub> \*, 7, 2, 1; 2014 QI<sub>76</sub> \*, 7, 2, 1; 2014 QJ<sub>76</sub> \*, 7, 2, 1; 2014 QK<sub>76</sub> \*, 7, 2, 1; 2014 QL<sub>76</sub> \*, 6, 2, 1; 2014 QM<sub>76</sub> \*, 8, 2, 1; 2014 QN<sub>76</sub> \*, 7, 2, 1; 2014 QO<sub>76</sub> \*, 7, 2, 1; 2014 QP<sub>76</sub> \*, 8, 2, 1; 2014 QQ<sub>76</sub> \*, 12, 3, 51; 2014 QR<sub>76</sub> \*, 6, 2, 1; 2014 QS<sub>76</sub> \*, 8, 2, 1; 2014 QT<sub>76</sub> \*, 7, 2, 1; 2014 QU<sub>76</sub> \*, 8, 2, 1; 2014 QV<sub>76</sub> \*, 8, 2, 1; 2014 QW<sub>76</sub> \*, 8, 2, 1; 2014 QX<sub>76</sub> \*, 7, 2, 1; 2014 QY<sub>76</sub> \*, 7, 2, 1; 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2014 QF<sub>126</sub> \*, 7, 2, 2; 2014 QG<sub>126</sub> \*, 8, 2, 2; 2014 QH<sub>126</sub> \*, 8, 2, 2; 2014 QI<sub>126</sub> \*, 22, 6, 47; 2014 QJ<sub>126</sub> \*, 8, 2, 2; 2014 QK<sub>126</sub> \*, 8, 2, 2; 2014 QL<sub>126</sub> \*, 8, 2, 2; 2014 QM<sub>126</sub> \*, 7, 2, 2; 2014 QN<sub>126</sub> \*, 6, 2, 2; 2014 QO<sub>126</sub> \*, 8, 2, 2; 2014 QP<sub>126</sub> \*, 6, 2, 2; 2014 QQ<sub>126</sub> \*, 8, 2, 2; 2014 QR<sub>126</sub> \*, 11, 3, 11; 2014 QS<sub>126</sub> \*, 6, 2, 2; 2014 QT<sub>126</sub> \*, 11, 3, 11; 2014 QU<sub>126</sub> \*, 7, 2, 2; 2014 QV<sub>126</sub> \*, 12, 3, 11; 2014 QW<sub>126</sub> \*, 14, 4, 17; 2014 QX<sub>126</sub> \*, 7, 2, 2; 2014 QY<sub>126</sub> \*, 11, 3, 11; 2014 QZ<sub>126</sub> \*, 8, 2, 2; 2014 QA<sub>127</sub> \*, 8, 2, 2; 2014 QB<sub>127</sub> \*, 8, 2, 2; 2014 QC<sub>127</sub> \*, 8, 2, 2; 2014 QD<sub>127</sub> \*, 16, 4, 47; 2014 QE<sub>127</sub> \*, 8, 2, 2; 2014 QF<sub>127</sub> \*, 6, 2, 2; 2014 QG<sub>127</sub> \*, 8, 2, 2; 2014 QH<sub>127</sub> \*, 8, 2, 2; 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2014 QO<sub>129</sub> \*, 7, 2, 2; 2014 QP<sub>129</sub> \*, 14, 4, 26; 2014 QQ<sub>129</sub> \*, 7, 2, 2; 2014 QR<sub>129</sub> \*, 6, 2, 2; 2014 QS<sub>129</sub> \*, 7, 2, 2; 2014 QT<sub>129</sub> \*, 9, 3, 17; 2014 QU<sub>129</sub> \*, 8, 2, 2; 2014 QV<sub>129</sub> \*, 7, 2, 2; 2014 QW<sub>129</sub> \*, 7, 2, 2; 2014 QX<sub>129</sub> \*, 10, 3, 3; 2014 QY<sub>129</sub> \*, 10, 3, 3; 2014 QZ<sub>129</sub> \*, 7, 2, 2; 2014 QA<sub>130</sub> \*, 8, 2, 2; 2014 QB<sub>130</sub> \*, 8, 2, 2; 2014 QC<sub>130</sub> \*, 6, 2, 2; 2014 QD<sub>130</sub> \*, 7, 2, 2; 2014 QE<sub>130</sub> \*, 13, 3, 3; 2014 QF<sub>130</sub> \*, 7, 2, 2; 2014 QG<sub>130</sub> \*, 15, 3, 3; 2014 QH<sub>130</sub> \*, 8, 2, 2; 2014 QI<sub>130</sub> \*, 7, 2, 2; 2014 QJ<sub>130</sub> \*, 11, 3, 3; 2014 QK<sub>130</sub> \*, 12, 3, 3; 2014 QL<sub>130</sub> \*, 12, 3, 3; 2014 QM<sub>130</sub> \*, 8, 2, 2; 2014 QN<sub>130</sub> \*, 12, 3, 3; 2014 QO<sub>130</sub> \*, 7, 2, 2; 2014 QP<sub>130</sub> \*, 7, 2, 2; 2014 QQ<sub>130</sub> \*, 9, 3, 3; 2014 QR<sub>130</sub> \*, 7, 2, 2; 2014 QS<sub>130</sub> \*, 11, 3, 3; 2014 QT<sub>130</sub> \*, 6, 2, 2; 2014 QU<sub>130</sub> \*, 6, 2, 2; 2014 QV<sub>130</sub> \*, 8, 2, 2; 2014 QW<sub>130</sub> \*, 11, 3, 3; 2014 QX<sub>130</sub> \*, 8, 2, 2; 2014 QY<sub>130</sub> \*, 9, 3, 3; 2014 QZ<sub>130</sub> \*, 7, 2, 2; 2014 QA<sub>131</sub> \*, 7, 2, 2; 2014 QB<sub>131</sub> \*, 12, 3, 3; 2014 QC<sub>131</sub> \*, 6, 2, 2; 2014 QD<sub>131</sub> \*, 8, 2, 2; 2014 QE<sub>131</sub> \*, 7, 2, 2; 2014 QF<sub>131</sub> \*, 7, 2, 2; 2014 QG<sub>131</sub> \*, 5, 2, 2; 2014 QH<sub>131</sub> \*, 16, 4, 18; 2014 QI<sub>131</sub> \*, 6, 2, 2; 2014 QJ<sub>131</sub> \*, 8, 2, 2; 2014 QK<sub>131</sub> \*, 7, 2, 2; 2014 QL<sub>131</sub> \*, 7, 2, 2; 2014 QM<sub>131</sub> \*, 8, 2, 2; 2014 QN<sub>131</sub> \*, 7, 2, 2; 2014 QO<sub>131</sub> \*, 7, 2, 2; 2014 QP<sub>131</sub> \*, 8, 2, 2; 2014 QQ<sub>131</sub> \*, 7, 2, 2; 2014 QR<sub>131</sub> \*, 8, 2, 2; 2014 QS<sub>131</sub> \*, 6, 2, 2; 2014 QT<sub>131</sub> \*, 8, 2, 2; 2014 QU<sub>131</sub> \*, 8, 2, 2; 2014 QV<sub>131</sub> \*, 8, 2, 2; 2014 QW<sub>131</sub> \*, 15, 4, 8; 2014 QX<sub>131</sub> \*, 8, 2, 2; 2014 QY<sub>131</sub> \*, 14, 4, 31; 2014 QZ<sub>131</sub> \*, 21, 5, 31; 2014 QA<sub>132</sub> \*, 7, 2, 2; 2014 QB<sub>132</sub> \*, 11, 3, 8; 2014 QC<sub>132</sub> \*, 12, 3, 8; 2014 QD<sub>132</sub> \*, 7, 2, 2; 2014 QE<sub>132</sub> \*, 7, 2, 2; 2014 QF<sub>132</sub> \*, 12, 3, 3; 2014 QG<sub>132</sub> \*, 17, 5, 31; 2014 QH<sub>132</sub> \*, 10, 3, 8; 2014 QI<sub>132</sub> \*, 8, 2, 2; 2014 QJ<sub>132</sub> \*, 8, 2, 2; 2014 QK<sub>132</sub> \*, 8, 2, 2; 2014 QL<sub>132</sub> \*, 11, 3, 8; 2014 QM<sub>132</sub> \*, 6, 2, 2; 2014 QN<sub>132</sub> \*, 10, 3, 8;

2014 QO<sub>132</sub> \*, 21, 5, 47; 2014 QP<sub>132</sub> \*, 11, 3, 8; 2014 QQ<sub>132</sub> \*, 12, 3, 3; 2014 QR<sub>132</sub> \*, 7, 2, 2; 2014 QS<sub>132</sub> \*, 7, 2, 2; 2014 QT<sub>132</sub> \*, 11, 3, 8; 2014 QU<sub>132</sub> \*, 11, 3, 8; 2014 QV<sub>132</sub> \*, 6, 2, 2; 2014 QW<sub>132</sub> \*, 8, 2, 2; 2014 QX<sub>132</sub> \*, 12, 3, 8; 2014 QY<sub>132</sub> \*, 6, 2, 2; 2014 QZ<sub>132</sub> \*, 10, 3, 8; 2014 QA<sub>133</sub> \*, 15, 4, 52; 2014 QB<sub>133</sub> \*, 11, 3, 8; 2014 QC<sub>133</sub> \*, 11, 3, 8; 2014 QD<sub>133</sub> \*, 8, 2, 2; 2014 QE<sub>133</sub> \*, 9, 3, 8; 2014 QF<sub>133</sub> \*, 19, 5, 31; 2014 QG<sub>133</sub> \*, 5, 2, 2; 2014 QH<sub>133</sub> \*, 13, 4, 23; 2014 QI<sub>133</sub> \*, 10, 3, 8; 2014 QJ<sub>133</sub> \*, 7, 2, 2; 2014 QK<sub>133</sub> \*, 14, 4, 8; 2014 QM<sub>133</sub> \*, 16, 4, 31; 2014 QN<sub>133</sub> \*, 8, 2, 2; 2014 QO<sub>133</sub> \*, 8, 2, 2; 2014 QP<sub>133</sub> \*, 9, 3, 8; 2014 QQ<sub>133</sub> \*, 12, 3, 19; 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2014 QU<sub>134</sub> \*, 7, 2, 2; 2014 QV<sub>134</sub> \*, 6, 2, 2; 2014 QW<sub>134</sub> \*, 7, 2, 2; 2014 QX<sub>134</sub> \*, 7, 2, 2; 2014 QY<sub>134</sub> \*, 7, 2, 2; 2014 QZ<sub>134</sub> \*, 18, 5, 47; 2014 QA<sub>135</sub> \*, 7, 2, 2; 2014 QB<sub>135</sub> \*, 7, 2, 2; 2014 QC<sub>135</sub> \*, 6, 2, 2; 2014 QD<sub>135</sub> \*, 12, 3, 3; 2014 QE<sub>135</sub> \*, 7, 2, 2; 2014 QF<sub>135</sub> \*, 8, 2, 2; 2014 QG<sub>135</sub> \*, 6, 2, 2; 2014 QH<sub>135</sub> \*, 6, 2, 2; 2014 QI<sub>135</sub> \*, 8, 2, 2; 2014 QJ<sub>135</sub> \*, 7, 2, 2; 2014 QK<sub>135</sub> \*, 7, 2, 2; 2014 QL<sub>135</sub> \*, 8, 2, 2; 2014 QM<sub>135</sub> \*, 7, 2, 2; 2014 QN<sub>135</sub> \*, 15, 4, 47; 2014 QO<sub>135</sub> \*, 11, 3, 46; 2014 QP<sub>135</sub> \*, 13, 3, 3; 2014 QQ<sub>135</sub> \*, 20, 4, 46; 2014 QR<sub>135</sub> \*, 11, 3, 3; 2014 QS<sub>135</sub> \*, 7, 2, 2; 2014 QT<sub>135</sub> \*, 8, 2, 2; 2014 QU<sub>135</sub> \*, 7, 2, 2; 2014 QV<sub>135</sub> \*, 7, 2, 2; 2014 QW<sub>135</sub> \*, 7, 2, 2; 2014 QX<sub>135</sub> \*, 13, 4, 19; 2014 QY<sub>135</sub> \*, 11, 3, 3; 2014 QZ<sub>135</sub> \*, 9, 3, 3; 2014 QA<sub>136</sub> \*, 8, 2, 2; 2014 QB<sub>136</sub> \*, 8, 2, 2; 2014 QC<sub>136</sub> \*, 7, 2, 2; 2014 QD<sub>136</sub> \*, 6, 2, 2; 2014 QE<sub>136</sub> \*, 8, 2, 2; 2014 QF<sub>136</sub> \*, 10, 3, 3; 2014 QG<sub>136</sub> \*, 8, 2, 2; 2014 QH<sub>136</sub> \*, 8, 2, 2; 2014 QI<sub>136</sub> \*, 12, 3, 3; 2014 QJ<sub>136</sub> \*, 10, 3, 3; 2014 QK<sub>136</sub> \*, 7, 2, 2; 2014 QL<sub>136</sub> \*, 7, 2, 2; 2014 QM<sub>136</sub> \*, 8, 2, 2; 2014 QN<sub>136</sub> \*, 8, 2, 2; 2014 QO<sub>136</sub> \*, 8, 2, 2; 2014 QP<sub>136</sub> \*, 8, 2, 2; 2014 QQ<sub>136</sub> \*, 6, 2, 2; 2014 QR<sub>136</sub> \*, 10, 3, 3; 2014 QS<sub>136</sub> \*, 5, 2, 2; 2014 QT<sub>136</sub> \*, 7, 2, 2; 2014 QU<sub>136</sub> \*, 8, 3, 3; 2014 QV<sub>136</sub> \*, 11, 3, 3; 2014 QW<sub>136</sub> \*, 15, 4, 47; 2014 QX<sub>136</sub> \*, 12, 3, 3; 2014 QY<sub>136</sub> \*, 7, 2, 2; 2014 QZ<sub>136</sub> \*, 18, 5, 47; 2014 QA<sub>137</sub> \*, 8, 2, 2; 2014 QB<sub>137</sub> \*, 8, 2, 2; 2014 QC<sub>137</sub> \*, 12, 3, 3; 2014 QD<sub>137</sub> \*, 10, 3, 3; 2014 QE<sub>137</sub> \*, 10, 3, 3; 2014 QF<sub>137</sub> \*, 7, 2, 2; 2014 QG<sub>137</sub> \*, 6, 2, 2; 2014 QH<sub>137</sub> \*, 7, 2, 2; 2014 QI<sub>137</sub> \*, 13, 4, 23; 2014 QJ<sub>137</sub> \*, 7, 2, 2; 2014 QK<sub>137</sub> \*, 6, 2, 2; 2014 QL<sub>137</sub> \*, 8, 2, 2; 2014 QM<sub>137</sub> \*, 7, 2, 2; 2014 QN<sub>137</sub> \*, 7, 2, 2; 2014 QO<sub>137</sub> \*, 8, 2, 2; 2014 QP<sub>137</sub> \*, 11, 3, 3; 2014 QQ<sub>137</sub> \*, 18, 5, 46; 2014 QR<sub>137</sub> \*, 7, 2, 2; 2014 QS<sub>137</sub> \*, 11, 3, 3; 2014 QT<sub>137</sub> \*, 15, 4, 18; 2014 QU<sub>137</sub> \*, 11, 2, 2; 2014 QV<sub>137</sub> \*, 8, 2, 2; 2014 QW<sub>137</sub> \*, 6, 2, 2; 2014 QX<sub>137</sub> \*, 7, 2, 2; 2014 QY<sub>137</sub> \*, 7, 2, 2; 2014 QZ<sub>137</sub> \*, 7, 2, 2; 2014 QA<sub>138</sub> \*, 8, 2, 2; 2014 QB<sub>138</sub> \*, 8, 2, 2; 2014 QC<sub>138</sub> \*, 10, 3, 22; 2014 QD<sub>138</sub> \*, 8, 3, 3; 2014 QE<sub>138</sub> \*, 17, 4, 23; 2014 QF<sub>138</sub> \*, 6, 2, 2; 2014 QG<sub>138</sub> \*, 7, 2, 2; 2014 QH<sub>138</sub> \*, 10, 3, 3; 2014 QI<sub>138</sub> \*, 13, 4, 23; 2014 QJ<sub>138</sub> \*, 16, 4, 28; 2014 QK<sub>138</sub> \*, 8, 2, 2; 2014 QL<sub>138</sub> \*, 5, 2, 2; 2014 QM<sub>138</sub> \*, 11, 3, 3; 2014 QN<sub>138</sub> \*, 8, 2, 2; 2014 QO<sub>138</sub> \*, 10, 3, 3; 2014 QP<sub>138</sub> \*, 7, 2, 2; 2014 QQ<sub>138</sub> \*, 6, 2, 2; 2014 QR<sub>138</sub> \*, 10, 3, 3; 2014 QS<sub>138</sub> \*, 10, 3, 3; 2014 QT<sub>138</sub> \*, 9, 3, 3; 2014 QU<sub>138</sub> \*, 7, 2, 2; 2014 QV<sub>138</sub> \*, 6, 2, 2; 2014 QW<sub>138</sub> \*, 7, 2, 2; 2014 QX<sub>138</sub> \*, 7, 2, 2; 2014 QY<sub>138</sub> \*, 8, 2, 2; 2014 QZ<sub>138</sub> \*, 7, 2, 2; 2014 QA<sub>139</sub> \*, 7, 2, 2; 2014 QB<sub>139</sub> \*, 7, 2, 2; 2014 QC<sub>139</sub> \*, 7, 2, 2; 2014 QD<sub>139</sub> \*, 7, 2, 2; 2014 QE<sub>139</sub> \*, 7, 2, 2; 2014 QF<sub>139</sub> \*, 7, 2, 2; 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2014 QP<sub>144</sub> \*, 11, 3, 16; 2014 QQ<sub>144</sub> \*, 8, 3, 25; 2014 QR<sub>144</sub> \*, 6, 2, 2; 2014 QS<sub>144</sub> \*, 7, 2, 2; 2014 QT<sub>144</sub> \*, 7, 2, 2; 2014 QU<sub>144</sub> \*, 6, 2, 2; 2014 QV<sub>144</sub> \*, 6, 2, 2; 2014 QW<sub>144</sub> \*, 9, 3, 18; 2014 QX<sub>144</sub> \*, 15, 4, 47; 2014 QY<sub>144</sub> \*, 5, 2, 2; 2014 QZ<sub>144</sub> \*, 14, 4, 25; 2014 QA<sub>145</sub> \*, 6, 2, 2; 2014 QB<sub>145</sub> \*, 6, 2, 2; 2014 QC<sub>145</sub> \*, 11, 3, 19; 2014 QD<sub>145</sub> \*, 5, 2, 2; 2014 QE<sub>145</sub> \*, 7, 2, 2; 2014 QF<sub>145</sub> \*, 7, 2, 2; 2014 QG<sub>145</sub> \*, 6, 2, 2; 2014 QH<sub>145</sub> \*, 10, 2, 2; 2014 QJ<sub>145</sub> \*, 7, 2, 2; 2014 QK<sub>145</sub> \*, 22, 5, 47; 2014 QL<sub>145</sub> \*, 6, 2, 2; 2014 QM<sub>145</sub> \*, 10, 2, 2; 2014 QN<sub>145</sub> \*, 5, 2, 2; 2014 QO<sub>145</sub> \*, 7, 2, 2; 2014 QP<sub>145</sub> \*, 6, 2, 2; 2014 QQ<sub>145</sub> \*, 7, 2, 2; 2014 QR<sub>145</sub> \*, 14, 4, 19; 2014 QS<sub>145</sub> \*, 7, 2, 2; 2014 QT<sub>145</sub> \*, 11, 3, 8; 2014 QU<sub>145</sub> \*, 6, 2, 2; 2014 QV<sub>145</sub> \*, 9, 3, 19; 2014 QW<sub>145</sub> \*, 13, 3, 3; 2014 QX<sub>145</sub> \*, 7, 2, 2; 2014 QY<sub>145</sub> \*, 6, 2, 2; 2014 QZ<sub>145</sub> \*, 7, 2, 2; 2014 QA<sub>146</sub> \*, 6, 2, 2; 2014 QB<sub>146</sub> \*, 11, 3, 3; 2014 QC<sub>146</sub> \*, 7, 2, 2; 2014 QD<sub>146</sub> \*, 6, 2, 2; 2014 QE<sub>146</sub> \*, 6, 2, 2; 2014 QF<sub>146</sub> \*, 14, 4, 47; 2014 QG<sub>146</sub> \*, 7, 2, 2; 2014 QH<sub>146</sub> \*, 5, 2, 2; 2014 QJ<sub>146</sub> \*, 10, 3, 3; 2014 QK<sub>146</sub> \*, 6, 2, 2; 2014 QL<sub>146</sub> \*, 5, 2, 2; 2014 QM<sub>146</sub> \*, 7, 2, 2; 2014 QN<sub>146</sub> \*, 7, 2, 2; 2014 QO<sub>146</sub> \*, 6, 2, 2; 2014 QP<sub>146</sub> \*, 7, 2, 2; 2014 QQ<sub>146</sub> \*, 5, 2, 2; 2014 QR<sub>146</sub> \*, 6, 2, 2; 2014 QS<sub>146</sub> \*, 7, 2, 2; 2014 QT<sub>146</sub> \*, 6, 2, 2; 2014 QU<sub>146</sub> \*, 7, 2, 2; 2014 QV<sub>146</sub> \*, 10, 3, 17; 2014 QW<sub>146</sub> \*, 7, 2, 2; 2014 QX<sub>146</sub> \*, 5, 2, 2; 2014 QY<sub>146</sub> \*, 5, 2, 2; 2014 QZ<sub>146</sub> \*, 7, 2, 2; 2014 QA<sub>147</sub> \*, 7, 2, 2; 2014 QB<sub>147</sub> \*, 7, 2, 2; 2014 QC<sub>147</sub> \*, 6, 2, 2; 2014 QD<sub>147</sub> \*, 7, 2, 2; 2014 QE<sub>147</sub> \*, 7, 2, 2; 2014 QF<sub>147</sub> \*, 6, 2, 2; 2014 QG<sub>147</sub> \*, 7, 2, 2; 2014 QH<sub>147</sub> \*, 7, 2, 2; 2014 QJ<sub>147</sub> \*, 6, 2, 2; 2014 QK<sub>147</sub> \*, 7, 2, 2; 2014 QL<sub>147</sub> \*, 6, 2, 2; 2014 QM<sub>147</sub> \*, 17, 4, 8; 2014 QN<sub>147</sub> \*, 6, 2, 2; 2014 QO<sub>147</sub> \*, 7, 2, 2; 2014 QP<sub>147</sub> \*, 7, 2, 2; 2014 QQ<sub>147</sub> \*, 9, 3, 8; 2014 QR<sub>147</sub> \*, 5, 2, 2; 2014 QS<sub>147</sub> \*, 6, 2, 2; 2014 QT<sub>147</sub> \*, 6, 2, 2; 2014 QU<sub>147</sub> \*, 6, 2, 2; 2014 QV<sub>147</sub> \*, 7, 2, 2; 2014 QW<sub>147</sub> \*, 6, 2, 2; 2014 QX<sub>147</sub> \*, 10, 3, 3; 2014 QY<sub>147</sub> \*, 7, 2, 2; 2014 QZ<sub>147</sub> \*, 6, 2, 2; 2014 QA<sub>148</sub> \*, 7, 2, 2; 2014 QB<sub>148</sub> \*, 10, 3, 3; 2014 QC<sub>148</sub> \*, 7, 2, 2; 2014 QD<sub>148</sub> \*, 7, 2, 2; 2014 QE<sub>148</sub> \*, 6, 2, 2; 2014 QF<sub>148</sub> \*, 7, 2, 2; 2014 QG<sub>148</sub> \*, 6, 2, 2; 2014 QH<sub>148</sub> \*, 7, 2, 2; 2014 QJ<sub>148</sub> \*, 7, 2, 2; 2014 QK<sub>148</sub> \*, 9, 3, 3; 2014 QL<sub>148</sub> \*, 15, 5, 22; 2014 QM<sub>148</sub> \*, 11, 3, 3; 2014 QN<sub>148</sub> \*, 14, 4, 25; 2014 QO<sub>148</sub> \*, 9, 3, 3; 2014 QP<sub>148</sub> \*, 7, 2, 2; 2014 QQ<sub>148</sub> \*, 7, 2, 2; 2014 QR<sub>148</sub> \*, 7, 2, 2; 2014 QS<sub>148</sub> \*, 7, 2, 2; 2014 QT<sub>148</sub> \*, 25, 5, 33; 2014 QU<sub>148</sub> \*, 7, 2, 2; 2014 QV<sub>148</sub> \*, 14, 4, 52; 2014 QW<sub>148</sub> \*, 7, 2, 2; 2014 QX<sub>148</sub> \*, 6, 2, 2; 2014 QY<sub>148</sub> \*, 10, 3, 8; 2014 QZ<sub>148</sub> \*, 7, 2, 2; 2014 QA<sub>149</sub> \*, 10, 3, 3; 2014 QB<sub>149</sub> \*, 7, 2, 2; 2014 QC<sub>149</sub> \*, 14, 4, 8; 2014 QD<sub>149</sub> \*, 7, 2, 3; 2014 QE<sub>149</sub> \*, 14, 4, 8; 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2014 QN<sub>151</sub> \*, 7, 2, 2; 2014 QO<sub>151</sub> \*, 8, 2, 3; 2014 QP<sub>151</sub> \*, 8, 2, 2; 2014 QQ<sub>151</sub> \*, 8, 2, 3; 2014 QR<sub>151</sub> \*, 7, 2, 3; 2014 QS<sub>151</sub> \*, 8, 2, 3; 2014 QT<sub>151</sub> \*, 8, 2, 3; 2014 QU<sub>151</sub> \*, 8, 2, 3; 2014 QV<sub>151</sub> \*, 7, 2, 3; 2014 QW<sub>151</sub> \*, 7, 2, 3; 2014 QX<sub>151</sub> \*, 3, 1, 0; 2014 QY<sub>151</sub> \*, 3, 1, 0; 2014 QZ<sub>151</sub> \*, 12, 3, 54; 2014 QA<sub>152</sub> \*, 5, 2, 37; 2014 QB<sub>152</sub> \*, 16, 5, 954; 2014 QC<sub>152</sub> \*, 7, 2, 12; 2014 QD<sub>152</sub> \*, 10, 3, 45; 2014 QE<sub>152</sub> \*, 2, 1, 0; 2014 QF<sub>152</sub> \*, 7, 2, 12; 2014 QG<sub>152</sub> \*, 11, 3, 25; 2014 QH<sub>152</sub> \*, 8, 2, 27; 2014 QI<sub>152</sub> \*, 12, 3, 28; 2014 QJ<sub>152</sub> \*, 12, 3, 30; 2014 QK<sub>152</sub> \*, 7, 2, 1; 2014 QL<sub>152</sub> \*, 2, 66; 2014 QM<sub>152</sub> \*, 7, 2, 1; 2014 QN<sub>152</sub> \*, 16, 4, 5; 2014 QO<sub>152</sub> \*, 22, 6, 92; 2014 QP<sub>152</sub> \*, 23, 4, 64; 2014 QQ<sub>152</sub> \*, 22, 5, 62; 2014 QR<sub>152</sub> \*, 7, 2, 1; 2014 QS<sub>152</sub> \*, 7, 2, 1; 2014 QT<sub>152</sub> \*, 8, 2, 1; 2014 QU<sub>152</sub> \*, 17, 4, 62; 2014 QV<sub>152</sub> \*, 7, 2, 1; 2014 QW<sub>152</sub> \*, 7, 2, 1; 2014 QX<sub>152</sub> \*, 6, 2, 1; 2014 QY<sub>152</sub> \*, 6, 2, 1; 2014 QZ<sub>152</sub> \*, 6, 2, 1; 2014 QA<sub>153</sub> \*, 14, 2, 1; 2014 QB<sub>153</sub> \*, 7, 2, 1; 2014 QC<sub>153</sub> \*, 6, 2, 1; 2014 QD<sub>153</sub> \*, 4, 2, 1; 2014 QE<sub>153</sub> \*, 8, 2, 1; 2014 QF<sub>153</sub> \*, 8, 2, 1; 2014 QG<sub>153</sub> \*, 8, 2, 1; 2014 QH<sub>153</sub> \*, 8, 2, 1; 2014 QI<sub>153</sub> \*, 8, 2, 1; 2014 QJ<sub>153</sub> \*, 8, 2, 1; 2014 QK<sub>153</sub> \*, 8, 2, 1; 2014 QL<sub>153</sub> \*, 8, 2, 1; 2014 QM<sub>153</sub> \*, 8, 2, 1; 2014 QN<sub>153</sub> \*, 8, 2, 1; 2014 QO<sub>153</sub> \*, 8, 2, 1; 2014 QP<sub>153</sub> \*, 8, 2, 1; 2014 QQ<sub>153</sub> \*, 8, 2, 1; 2014 QR<sub>153</sub> \*, 8, 2, 1; 2014 QS<sub>153</sub> \*, 8, 2, 1; 2014 QT<sub>153</sub> \*, 8, 2, 1; 2014 QU<sub>153</sub> \*, 8, 2, 1; 2014 QV<sub>153</sub> \*, 8, 2, 1; 2014 QW<sub>153</sub> \*, 8, 2, 1; 2014 QX<sub>153</sub> \*, 8, 2, 1; 2014 QY<sub>153</sub> \*, 8, 2, 1; 2014 QZ<sub>153</sub> \*, 8, 2, 1; 2014 QA<sub>154</sub> \*, 8, 2, 1; 2014 QB<sub>154</sub> \*, 8, 2, 1; 2014 QC<sub>154</sub> \*, 19, 4, 55; 2014 QD<sub>154</sub> \*, 8, 2, 1; 2014 QE<sub>154</sub> \*, 6, 2, 1; 2014 QF<sub>154</sub> \*, 7, 2, 1; 2014 QG<sub>154</sub> \*, 6, 2, 1; 2014 QH<sub>154</sub> \*, 7, 2, 1; 2014 QI<sub>154</sub> \*, 8, 2, 1; 2014 QJ<sub>154</sub> \*, 8, 2, 1; 2014 QK<sub>154</sub> \*, 8, 2, 1; 2014 QL<sub>154</sub> \*, 8, 2, 1; 2014 QM<sub>154</sub> \*, 8, 2, 1; 2014 QN<sub>154</sub> \*, 8, 2, 1; 2014 QO<sub>154</sub> \*, 8, 2, 1; 2014 QP<sub>154</sub> \*, 8, 2, 1; 2014 QQ<sub>154</sub> \*, 8, 2, 1; 2014 QR<sub>154</sub> \*, 8, 2, 1; 2014 QS<sub>154</sub> \*, 8, 2, 1; 2014 QT<sub>154</sub> \*, 8, 2, 1; 2014 QU<sub>154</sub> \*, 8, 2, 1; 2014 QV<sub>154</sub> \*, 8, 2, 1; 2014 QW<sub>154</sub> \*, 8, 2, 1; 2014 QX<sub>154</sub> \*, 8, 2, 1; 2014 QY<sub>154</sub> \*, 8, 2, 1; 2014 QZ<sub>154</sub> \*, 8, 2, 1; 2014 QA<sub>155</sub> \*, 7, 2, 1; 2014 QB<sub>155</sub> \*, 6, 2, 1; 2014 QC<sub>155</sub> \*,

8, 2, 1; 2014 QD<sub>155</sub> \*, 6, 2, 1; 2014 QE<sub>155</sub> \*, 8, 2, 1; 2014 QF<sub>155</sub> \*, 7, 2, 1; 2014 QG<sub>155</sub> \*, 8, 2, 1; 2014 QH<sub>155</sub> \*, 6, 2, 1; 2014 QI<sub>155</sub> \*, 7, 2, 1; 2014 QJ<sub>155</sub> \*, 6, 2, 1; 2014 QK<sub>155</sub> \*, 6, 2, 1; 2014 QL<sub>155</sub> \*, 6, 2, 1; 2014 QM<sub>155</sub> \*, 8, 2, 1; 2014 QN<sub>155</sub> \*, 6, 2, 1; 2014 QO<sub>155</sub> \*, 8, 2, 1; 2014 QP<sub>155</sub> \*, 8, 2, 1; 2014 QQ<sub>155</sub> \*, 6, 2, 1; 2014 QR<sub>155</sub> \*, 7, 2, 1; 2014 QS<sub>155</sub> \*, 8, 2, 1; 2014 QT<sub>155</sub> \*, 7, 2, 1; 2014 QU<sub>155</sub> \*, 8, 2, 1; 2014 QV<sub>155</sub> \*, 8, 2, 1; 2014 QW<sub>155</sub> \*, 7, 2, 1; 2014 QX<sub>155</sub> \*, 7, 2, 1; 2014 QY<sub>155</sub> \*, 7, 2, 1; 2014 QZ<sub>155</sub> \*, 7, 2, 1; 2014 QA<sub>156</sub> \*, 7, 2, 1; 2014 QB<sub>156</sub> \*, 6, 2, 1; 2014 QC<sub>156</sub> \*, 8, 2, 1; 2014 QD<sub>156</sub> \*, 7, 2, 1; 2014 QE<sub>156</sub> \*, 7, 2, 1; 2014 QF<sub>156</sub> \*, 8, 2, 1; 2014 QG<sub>156</sub> \*, 8, 2, 1; 2014 QH<sub>156</sub> \*, 7, 2, 1; 2014 QI<sub>156</sub> \*, 7, 2, 1; 2014 QJ<sub>156</sub> \*, 7, 2, 1; 2014 QK<sub>156</sub> \*, 7, 2, 1; 2014 QL<sub>156</sub> \*, 7, 2, 1; 2014 QM<sub>156</sub> \*, 7, 2, 1; 2014 QN<sub>156</sub> \*, 8, 2, 1; 2014 QO<sub>156</sub> \*, 7, 2, 1; 2014 QP<sub>156</sub> \*, 6, 2, 1; 2014 QQ<sub>156</sub> \*, 8, 2, 1; 2014 QR<sub>156</sub> \*, 8, 2, 1; 2014 QS<sub>156</sub> \*, 8, 2, 1; 2014 QT<sub>156</sub> \*, 7, 2, 1; 2014 QU<sub>156</sub> \*, 8, 2, 1; 2014 QV<sub>156</sub> \*, 8, 2, 1; 2014 QW<sub>156</sub> \*, 8, 2, 1; 2014 QX<sub>156</sub> \*, 8, 2, 1; 2014 QY<sub>156</sub> \*, 8, 2, 1; 2014 QZ<sub>156</sub> \*, 8, 2, 1; 2014 QA<sub>157</sub> \*, 7, 2, 1; 2014 QB<sub>157</sub> \*, 8, 2, 1; 2014 QC<sub>157</sub> \*, 7, 2, 1; 2014 QD<sub>157</sub> \*, 8, 2, 1; 2014 QE<sub>157</sub> \*, 8, 2, 1; 2014 QF<sub>157</sub> \*, 8, 2, 1; 2014 QG<sub>157</sub> \*, 6, 2, 1; 2014 QH<sub>157</sub> \*, 8, 2, 1; 2014 QI<sub>157</sub> \*, 8, 2, 1; 2014 QJ<sub>157</sub> \*, 8, 2, 1; 2014 QK<sub>157</sub> \*, 8, 2, 1; 2014 QL<sub>157</sub> \*, 7, 2, 1; 2014 QM<sub>157</sub> \*, 7, 2, 1; 2014 QN<sub>157</sub> \*, 6, 2, 1; 2014 QO<sub>157</sub> \*, 7, 2, 1; 2014 QP<sub>157</sub> \*, 6, 2, 1; 2014 QQ<sub>157</sub> \*, 7, 2, 1; 2014 QR<sub>157</sub> \*, 7, 2, 1; 2014 QS<sub>157</sub> \*, 8, 2, 1; 2014 QT<sub>157</sub> \*, 7, 2, 1; 2014 QU<sub>157</sub> \*, 8, 2, 1; 2014 QV<sub>157</sub> \*, 8, 2, 1; 2014 QW<sub>157</sub> \*, 8, 2, 1; 2014 QX<sub>157</sub> \*, 8, 2, 1; 2014 QY<sub>157</sub> \*, 8, 2, 1; 2014 QZ<sub>157</sub> \*, 8, 2, 1; 2014 QA<sub>158</sub> \*, 8, 2, 1; 2014 QB<sub>158</sub> \*, 5, 2, 1; 2014 QC<sub>158</sub> \*, 7, 2, 1; 2014 QD<sub>158</sub> \*, 8, 2, 1; 2014 QE<sub>158</sub> \*, 6, 2, 1; 2014 QF<sub>158</sub> \*, 8, 2, 1; 2014 QG<sub>158</sub> \*, 6, 2, 1; 2014 QH<sub>158</sub> \*, 8, 2, 1; 2014 QI<sub>158</sub> \*, 7, 2, 1; 2014 QJ<sub>158</sub> \*, 7, 2, 1; 2014 QK<sub>158</sub> \*, 7, 2, 1; 2014 QL<sub>158</sub> \*, 8, 2, 1; 2014 QM<sub>158</sub> \*, 8, 2, 1; 2014 QN<sub>158</sub> \*, 8, 2, 1; 2014 QO<sub>158</sub> \*, 8, 2, 1; 2014 QP<sub>158</sub> \*, 7, 2, 1; 2014 QQ<sub>158</sub> \*, 8, 2, 1; 2014 QR<sub>158</sub> \*, 7, 2, 1; 2014 QS<sub>158</sub> \*, 8, 2, 1; 2014 QT<sub>158</sub> \*, 7, 2, 1; 2014 QU<sub>158</sub> \*, 8, 2, 1; 2014 QV<sub>158</sub> \*, 8, 2, 1; 2014 QW<sub>158</sub> \*, 8, 2, 1; 2014 QX<sub>158</sub> \*, 7, 2, 1; 2014 QY<sub>158</sub> \*, 7, 2, 1; 2014 QZ<sub>158</sub> \*, 8, 2, 1; 2014 QA<sub>159</sub> \*, 8, 2, 1; 2014 QB<sub>159</sub> \*, 7, 2, 1; 2014 QC<sub>159</sub> \*, 7, 2, 1; 2014 QD<sub>159</sub> \*, 7, 2, 1; 2014 QE<sub>159</sub> \*, 8, 2, 1; 2014 QF<sub>159</sub> \*, 8, 2, 1; 2014 QG<sub>159</sub> \*, 6, 2, 1; 2014 QH<sub>159</sub> \*, 6, 2, 1; 2014 QI<sub>159</sub> \*, 8, 2, 1; 2014 QJ<sub>159</sub> \*, 8, 2, 1; 2014 QK<sub>159</sub> \*, 7, 2, 1; 2014 QL<sub>159</sub> \*, 8, 2, 1; 2014 QM<sub>159</sub> \*, 7, 2, 1; 2014 QN<sub>159</sub> \*, 7, 2, 1; 2014 QO<sub>159</sub> \*, 7, 2, 1; 2014 QP<sub>159</sub> \*, 6, 2, 1; 2014 QQ<sub>159</sub> \*, 8, 2, 1; 2014 QR<sub>159</sub> \*, 8, 2, 1; 2014 QS<sub>159</sub> \*, 8, 2, 1; 2014 QT<sub>159</sub> \*, 8, 2, 1; 2014 QU<sub>159</sub> \*, 8, 2, 1; 2014 QV<sub>159</sub> \*, 8, 2, 1; 2014 QW<sub>159</sub> \*, 8, 2, 1; 2014 QX<sub>159</sub> \*, 8, 2, 1; 2014 QY<sub>159</sub> \*, 8, 2, 1; 2014 QZ<sub>159</sub> \*, 8, 2, 1; 2014 QA<sub>160</sub> \*, 8, 2, 1; 2014 QB<sub>160</sub> \*, 8, 2, 1; 2014 QC<sub>160</sub> \*, 8, 2, 1; 2014 QD<sub>160</sub> \*, 7, 2, 1; 2014 QE<sub>160</sub> \*, 8, 2, 1; 2014 QF<sub>160</sub> \*, 7, 2, 1; 2014 QG<sub>160</sub> \*, 8, 2, 1; 2014 QH<sub>160</sub> \*, 7, 2, 1; 2014 QI<sub>160</sub> \*, 8, 2, 1; 2014 QJ<sub>160</sub> \*, 8, 2, 1; 2014 QK<sub>160</sub> \*, 8, 2, 1; 2014 QL<sub>160</sub> \*, 8, 2, 1; 2014 QM<sub>160</sub> \*, 8, 2, 1; 2014 QN<sub>160</sub> \*, 8, 2, 1; 2014 QO<sub>160</sub> \*, 8, 2, 1; 2014 QP<sub>160</sub> \*, 6, 2, 1; 2014 QQ<sub>160</sub> \*, 7, 2, 1; 2014 QR<sub>160</sub> \*, 7, 2, 1; 2014 QS<sub>160</sub> \*, 7, 2, 1; 2014 QT<sub>160</sub> \*, 7, 2, 1; 2014 QU<sub>160</sub> \*, 7, 2, 1; 2014 QV<sub>160</sub> \*, 6, 2, 1; 2014 QW<sub>160</sub> \*, 6, 2, 1; 2014 QX<sub>160</sub> \*, 5, 2, 1; 2014 QY<sub>160</sub> \*, 7, 2, 1; 2014 QZ<sub>160</sub> \*, 6, 2, 1; 2014 QA<sub>161</sub> \*, 7, 2, 1; 2014 QB<sub>161</sub> \*, 6, 2, 1; 2014 QC<sub>161</sub> \*, 6, 2, 1; 2014 QD<sub>161</sub> \*, 7, 2, 1; 2014 QE<sub>161</sub> \*, 6, 2, 1; 2014 QF<sub>161</sub> \*, 7, 2, 1; 2014 QG<sub>161</sub> \*, 12, 2, 1; 2014 QH<sub>161</sub> \*, 6, 2, 1; 2014 QI<sub>161</sub> \*, 6, 2, 1; 2014 QJ<sub>161</sub> \*, 6, 2, 1; 2014 QK<sub>161</sub> \*, 6, 2, 1; 2014 QL<sub>161</sub> \*, 6, 2, 1; 2014 QM<sub>161</sub> \*, 6, 2, 1; 2014 QN<sub>161</sub> \*, 7, 2, 1; 2014 QO<sub>161</sub> \*, 7, 2, 1; 2014 QP<sub>161</sub> \*, 7, 2, 1; 2014 QQ<sub>161</sub> \*, 7, 2, 1; 2014 QR<sub>161</sub> \*, 7, 2, 1; 2014 QS<sub>161</sub> \*, 6, 2, 1; 2014 QT<sub>161</sub> \*, 7, 2, 1; 2014 QU<sub>161</sub> \*, 6, 2, 1; 2014 QV<sub>161</sub> \*, 8, 2, 1; 2014 QW<sub>161</sub> \*, 6, 2, 1; 2014 QX<sub>161</sub> \*, 6, 2, 1; 2014 QY<sub>161</sub> \*, 8, 2, 1;



1; 2014 QA<sub>166</sub> \*, 7, 2, 1; 2014 QB<sub>166</sub> \*, 7, 2, 1; 2014 QC<sub>166</sub> \*, 6, 2, 1; 2014 QD<sub>166</sub> \*, 36, 8, 140; 2014 QE<sub>166</sub> \*, 13, 4, 60; 2014 QF<sub>166</sub> \*, 7, 2, 1; 2014 QG<sub>166</sub> \*, 8, 2, 1; 2014 QH<sub>166</sub> \*, 7, 2, 1; 2014 QJ<sub>166</sub> \*, 8, 2, 1; 2014 QK<sub>166</sub> \*, 14, 4, 64; 2014 QL<sub>166</sub> \*, 8, 2, 1; 2014 QM<sub>166</sub> \*, 7, 2, 1; 2014 QN<sub>166</sub> \*, 11, 3, 11; 2014 QO<sub>166</sub> \*, 16, 4, 30; 2014 QP<sub>166</sub> \*, 7, 2, 1; 2014 QQ<sub>166</sub> \*, 7, 2, 1; 2014 QR<sub>166</sub> \*, 7, 2, 1; 2014 QS<sub>166</sub> \*, 6, 2, 1; 2014 QT<sub>166</sub> \*, 7, 2, 1; 2014 QU<sub>166</sub> \*, 7, 2, 1; 2014 QV<sub>166</sub> \*, 8, 2, 1; 2014 QW<sub>166</sub> \*, 6, 2, 1; 2014 QX<sub>166</sub> \*, 6, 2, 1; 2014 QY<sub>166</sub> \*, 7, 2, 1; 2014 QZ<sub>166</sub> \*, 8, 2, 1; 2014 QA<sub>167</sub> \*, 8, 2, 1; 2014 QB<sub>167</sub> \*, 7, 2, 1; 2014 QC<sub>167</sub> \*, 8, 2, 1; 2014 QD<sub>167</sub> \*, 7, 2, 1; 2014 QE<sub>167</sub> \*, 7, 2, 1; 2014 QF<sub>167</sub> \*, 6, 2, 1; 2014 QG<sub>167</sub> \*, 8, 2, 1; 2014 QH<sub>167</sub> \*, 8, 2, 1; 2014 QJ<sub>167</sub> \*, 7, 2, 1; 2014 QK<sub>167</sub> \*, 7, 2, 1; 2014 QL<sub>167</sub> \*, 8, 2, 1; 2014 QM<sub>167</sub> \*, 8, 2, 1; 2014 QN<sub>167</sub> \*, 7, 2, 1; 2014 QO<sub>167</sub> \*, 8, 2, 1; 2014 QP<sub>167</sub> \*, 7, 2, 1; 2014 QQ<sub>167</sub> \*, 7, 2, 1; 2014 QR<sub>167</sub> \*, 8, 2, 1; 2014 QS<sub>167</sub> \*, 7, 2, 1; 2014 QT<sub>167</sub> \*, 8, 2, 1; 2014 QV<sub>167</sub> \*, 7, 2, 1; 2014 QW<sub>167</sub> \*, 7, 2, 1; 2014 QX<sub>167</sub> \*, 7, 2, 1; 2014 QY<sub>167</sub> \*, 7, 2, 1; 2014 QZ<sub>167</sub> \*, 8, 2, 1; 2014 QA<sub>168</sub> \*, 7, 2, 1; 2014 QB<sub>168</sub> \*, 7, 2, 1; 2014 QC<sub>168</sub> \*, 6, 2, 1; 2014 QD<sub>168</sub> \*, 8, 2, 1; 2014 QE<sub>168</sub> \*, 7, 2, 1; 2014 QF<sub>168</sub> \*, 6, 2, 1; 2014 QG<sub>168</sub> \*, 6, 2, 1; 2014 QH<sub>168</sub> \*, 6, 2, 1; 2014 QI<sub>168</sub> \*, 12, 3, 22; 2014 QR<sub>168</sub> \*, 12, 3, 75; 2014 QT<sub>168</sub> \*, 8, 2, 1; 2014 QV<sub>168</sub> \*, 7, 2, 3; 2014 QW<sub>168</sub> \*, 3, 1, 0; 2014 QX<sub>168</sub> \*, 3, 1, 0; 2014 QY<sub>168</sub> \*, 6, 2, 1; 2014 QZ<sub>168</sub> \*, 8, 2, 1; 2014 QA<sub>169</sub> \*, 7, 2, 1; 2014 QB<sub>169</sub> \*, 7, 2, 1; 2014 QC<sub>169</sub> \*, 3, 1, 0; 2014 QD<sub>169</sub> \*, 10, 3, 104; 2014 QE<sub>169</sub> \*, 12, 3, 49; 2014 QF<sub>169</sub> \*, 11, 3, 13; 2014 QG<sub>169</sub> \*, 3, 1, 0; 2014 QH<sub>169</sub> \*, 6, 2, 1; 2014 QI<sub>169</sub> \*, 4, 1, 0; 2014 QJ<sub>169</sub> \*, 7, 1, 0; 2014 QK<sub>169</sub> \*, 8, 2, 22; 2014 QM<sub>169</sub> \*, 7, 2, 2; 2014 QN<sub>169</sub> \*, 10, 3, 7; 2014 QO<sub>169</sub> \*, 8, 2, 51; 2014 QP<sub>169</sub> \*, 13, 4, 18; 2014 QV<sub>169</sub> \*, 20, 5, 53; 2014 QW<sub>169</sub> \*, 11, 3, 11; 2014 QX<sub>169</sub> \*, 6, 2, 1; 2014 QY<sub>169</sub> \*, 6, 2, 1; 2014 QZ<sub>169</sub> \*, 4, 1, 0; 2014 QA<sub>170</sub> \*, 11, 2, 13; 2014 QB<sub>170</sub> \*, 7, 2, 5; 2014 QC<sub>170</sub> \*, 4, 1, 0; 2014 QD<sub>170</sub> \*, 12, 3, 13; 2014 QE<sub>170</sub> \*, 4, 1, 0; 2014 QF<sub>170</sub> \*, 4, 1, 0; 2014 QG<sub>170</sub> \*, 4, 1, 0; 2014 QH<sub>170</sub> \*, 7, 2, 13; 2014 QI<sub>170</sub> \*, 11, 3, 5; 2014 QJ<sub>170</sub> \*, 4, 1, 0; 2014 QK<sub>170</sub> \*, 8, 2, 13; 2014 QL<sub>170</sub> \*, 8, 2, 13; 2014 QM<sub>170</sub> \*, 7, 2, 5; 2014 QN<sub>170</sub> \*, 7, 2, 5; 2014 QO<sub>170</sub> \*, 14, 4, 17; 2014 QP<sub>170</sub> \*, 6, 2, 5; 2014 QV<sub>170</sub> \*, 8, 2, 5; 2014 QW<sub>170</sub> \*, 7, 2, 5; 2014 QX<sub>170</sub> \*, 11, 3, 13; 2014 QY<sub>170</sub> \*, 7, 2, 5; 2014 QZ<sub>170</sub> \*, 7, 2, 5; 2014 QA<sub>171</sub> \*, 3, 1, 0; 2014 QB<sub>171</sub> \*, 4, 1, 0; 2014 QC<sub>171</sub> \*, 7, 2, 4; 2014 QD<sub>171</sub> \*, 7, 2, 4; 2014 QE<sub>171</sub> \*, 8, 2, 4; 2014 QF<sub>171</sub> \*, 3, 1, 0; 2014 QG<sub>171</sub> \*, 10, 3, 10; 2014 QH<sub>171</sub> \*, 7, 2, 4; 2014 QI<sub>171</sub> \*, 3, 1, 0; 2014 QJ<sub>171</sub> \*, 8, 2, 12; 2014 QK<sub>171</sub> \*, 6, 2, 4; 2014 QL<sub>171</sub> \*, 11, 3, 27; 2014 QM<sub>171</sub> \*, 10, 3, 12; 2014 QN<sub>171</sub> \*, 10, 3, 17; 2014 QO<sub>171</sub> \*, 3, 1, 0; 2014 QP<sub>171</sub> \*, 14, 3, 8; 2014 QV<sub>171</sub> \*, 7, 2, 4; 2014 QW<sub>171</sub> \*, 11, 3, 7; 2014 QX<sub>171</sub> \*, 7, 2, 3; 2014 QY<sub>171</sub> \*, 7, 2, 3; 2014 QZ<sub>171</sub> \*, 11, 3, 13; 2014 QA<sub>172</sub> \*, 10, 3, 13; 2014 QB<sub>172</sub> \*, 7, 2, 3; 2014 QC<sub>172</sub> \*, 7, 2, 3; 2014 QD<sub>172</sub> \*, 18, 5, 47; 2014 QE<sub>172</sub> \*, 10, 3, 3; 2014 QF<sub>172</sub> \*, 6, 2, 3; 2014 QG<sub>172</sub> \*, 11, 3, 19; 2014 QH<sub>172</sub> \*, 8, 2, 3; 2014 QI<sub>172</sub> \*, 21, 5, 26; 2014 QJ<sub>172</sub> \*, 6, 2, 3; 2014 QK<sub>172</sub> \*, 8, 2, 3; 2014 QL<sub>172</sub> \*, 7, 2, 3; 2014 QM<sub>172</sub> \*, 7, 2, 3; 2014 QN<sub>172</sub> \*, 8, 2, 3; 2014 QO<sub>172</sub> \*, 7, 2, 3; 2014 QP<sub>172</sub> \*, 8, 2, 3; 2014 QV<sub>172</sub> \*, 15, 5, 26; 2014 QW<sub>172</sub> \*, 15, 4, 20; 2014 QX<sub>172</sub> \*, 10, 3, 3; 2014 QY<sub>172</sub> \*, 7, 2, 3; 2014 QZ<sub>172</sub> \*, 7, 2, 3; 2014 QA<sub>173</sub> \*, 12, 3, 3; 2014 QB<sub>173</sub> \*, 7, 2, 3; 2014 QC<sub>173</sub> \*, 7, 2, 3; 2014 QD<sub>173</sub> \*, 6, 2, 3; 2014 QE<sub>173</sub> \*, 8, 2, 3; 2014 QF<sub>173</sub> \*, 8, 2, 3; 2014 QG<sub>173</sub> \*, 8, 2, 3; 2014 QH<sub>173</sub> \*, 8, 2, 3; 2014 QI<sub>173</sub> \*, 7, 2, 3; 2014 QJ<sub>173</sub> \*, 11, 3, 3; 2014 QK<sub>173</sub> \*, 11, 3, 3; 2014 QL<sub>173</sub> \*, 11, 3, 3; 2014 QM<sub>173</sub> \*, 12, 3, 3; 2014 QN<sub>173</sub> \*, 7, 2, 3; 2014 QO<sub>173</sub> \*, 6, 2, 3; 2014 QP<sub>173</sub> \*, 13, 4, 20; 2014 QV<sub>173</sub> \*, 20, 4, 26; 2014 QW<sub>173</sub> \*, 8, 2, 3; 2014 QX<sub>173</sub> \*, 6, 2, 3; 2014 QY<sub>173</sub> \*, 7, 2, 3; 2014 QZ<sub>173</sub> \*, 4, 1, 0; 2014 QA<sub>174</sub> \*, 8, 2, 3; 2014 QB<sub>174</sub> \*, 8, 2, 3; 2014 QC<sub>174</sub> \*, 15, 4, 18; 2014 QD<sub>174</sub> \*, 14, 3, 3; 2014 QE<sub>174</sub> \*, 7, 2, 3; 2014 QF<sub>174</sub> \*, 8, 2, 3; 2014 QG<sub>174</sub> \*, 7, 2, 3; 2014 QH<sub>174</sub> \*, 7, 2, 3; 2014 QI<sub>174</sub> \*, 8, 2, 3; 2014 QJ<sub>174</sub> \*, 8, 2, 3; 2014 QK<sub>174</sub> \*, 7, 2, 3; 2014 QL<sub>174</sub> \*, 8, 2, 3; 2014 QM<sub>174</sub> \*, 6, 2, 3; 2014 QN<sub>174</sub> \*, 8, 2, 3; 2014 QO<sub>174</sub> \*, 8, 2, 3; 2014 QP<sub>174</sub> \*, 7, 2, 3; 2014 QV<sub>174</sub> \*, 9, 3, 3; 2014 QW<sub>174</sub> \*, 14, 4, 8; 2014 QX<sub>174</sub> \*, 6, 2, 3; 2014 QY<sub>174</sub> \*, 11, 3, 3; 2014 QZ<sub>174</sub> \*, 11, 3, 3; 2014 QA<sub>175</sub> \*, 11, 3, 3; 2014 QB<sub>175</sub> \*, 7, 2, 3; 2014 QC<sub>175</sub> \*, 7, 2, 3; 2014 QD<sub>175</sub> \*, 8, 2, 3; 2014 QE<sub>175</sub> \*, 12, 3, 8; 2014 QF<sub>175</sub> \*, 6, 2, 3; 2014 QG<sub>175</sub> \*, 8, 2, 3; 2014 QH<sub>175</sub> \*, 8, 2, 3; 2014 QI<sub>175</sub> \*, 7, 2, 3; 2014 QJ<sub>175</sub> \*, 11, 3, 3; 2014 QK<sub>175</sub> \*, 11, 3, 3; 2014 QL<sub>175</sub> \*, 11, 3, 3; 2014 QM<sub>175</sub> \*, 5, 2, 3; 2014 QN<sub>175</sub> \*, 8, 2, 3; 2014 QO<sub>175</sub> \*, 7, 2, 3; 2014 QP<sub>175</sub> \*, 19, 4, 47; 2014 QV<sub>175</sub> \*, 7, 2, 3; 2014 QW<sub>175</sub> \*, 7, 2, 3; 2014 QX<sub>175</sub> \*, 11, 3, 20; 2014 QY<sub>175</sub> \*, 6, 2, 3; 2014 QZ<sub>175</sub> \*, 7, 2, 3; 2014 QA<sub>176</sub> \*, 8, 2, 3; 2014 QB<sub>176</sub> \*, 7, 2, 3; 2014 QC<sub>176</sub> \*, 8, 2, 3; 2014 QD<sub>176</sub> \*, 7, 2, 3; 2014 QE<sub>176</sub> \*, 7, 2, 3; 2014 QF<sub>176</sub> \*, 7, 2, 3; 2014 QG<sub>176</sub> \*, 11, 3, 3; 2014 QH<sub>176</sub> \*, 8, 2, 3; 2014 QI<sub>176</sub> \*, 14, 3, 3; 2014 QJ<sub>176</sub> \*, 14, 3, 3; 2014 QK<sub>176</sub> \*, 6, 2, 3; 2014 QL<sub>176</sub> \*, 12, 3, 3; 2014 QM<sub>176</sub> \*, 11, 3, 17; 2014 QN<sub>176</sub> \*, 8, 2, 3; 2014 QO<sub>176</sub> \*, 12, 3, 3; 2014 QP<sub>176</sub> \*, 7, 2, 3; 2014 QV<sub>176</sub> \*, 7, 2, 3; 2014 QW<sub>176</sub> \*, 22, 5, 27; 2014 QX<sub>176</sub> \*, 7, 2, 3; 2014 QY<sub>176</sub> \*, 7, 2, 3; 2014 QZ<sub>176</sub> \*, 16, 3, 3; 2014 QA<sub>177</sub> \*, 7, 2, 3; 2014 QB<sub>177</sub> \*, 15, 2, 3; 2014 QC<sub>177</sub> \*, 7, 2, 3; 2014 QD<sub>177</sub> \*, 7, 2, 3; 2014 QE<sub>177</sub> \*, 7, 2, 3; 2014 QF<sub>177</sub> \*, 8, 2, 3; 2014 QG<sub>177</sub> \*, 8, 2, 3; 2014 QH<sub>177</sub> \*, 8, 2, 3; 2014 QI<sub>177</sub> \*, 16, 3, 60; 2014 QJ<sub>177</sub> \*, 8, 2, 3; 2014 QK<sub>177</sub> \*, 6, 2, 3; 2014 QL<sub>177</sub> \*, 11, 3, 60; 2014 QM<sub>177</sub> \*, 8, 2, 3; 2014 QN<sub>177</sub> \*, 8, 2, 3; 2014 QO<sub>177</sub> \*, 8, 2, 3; 2014 QP<sub>177</sub> \*, 6, 2, 3; 2014 QV<sub>177</sub> \*, 8, 2, 3; 2014 QW<sub>177</sub> \*, 15, 4, 20; 2014 QX<sub>177</sub> \*, 6, 2, 3; 2014 QY<sub>177</sub> \*, 6, 2, 3; 2014 QZ<sub>177</sub> \*, 15, 4, 20; 2014 QA<sub>178</sub> \*, 10, 3, 3; 2014 QB<sub>178</sub> \*, 5, 2, 3; 2014 QC<sub>178</sub> \*, 6, 2, 3; 2014 QD<sub>178</sub> \*, 7, 2, 3; 2014 QE<sub>178</sub> \*, 11, 3, 3; 2014 QF<sub>178</sub> \*, 7, 2, 3; 2014 QG<sub>178</sub> \*, 11, 3, 3; 2014 QH<sub>178</sub> \*, 11, 3, 3; 2014 QI<sub>178</sub> \*, 11, 3, 3; 2014 QJ<sub>178</sub> \*, 10, 3, 3; 2014 QK<sub>178</sub> \*, 5, 2, 3; 2014 QL<sub>178</sub> \*, 15, 4, 18; 2014 QM<sub>178</sub> \*, 9, 3, 8; 2014 QN<sub>178</sub> \*, 6, 2, 3; 2014 QO<sub>178</sub> \*, 8, 2, 3; 2014 QP<sub>178</sub> \*, 14, 3, 7; 2014 QV<sub>178</sub> \*, 7, 2, 3; 2014 QW<sub>178</sub> \*, 13, 4, 28; 2014 QX<sub>178</sub> \*, 8, 2, 3; 2014 QY<sub>178</sub> \*, 6, 2, 3; 2014 QZ<sub>178</sub> \*, 6, 2, 3; 2014 QA<sub>179</sub> \*, 8, 2, 3; 2014 QB<sub>179</sub> \*, 10, 3, 13; 2014 QC<sub>179</sub> \*, 7, 2, 3; 2014 QD<sub>179</sub> \*, 8, 2, 3; 2014 QE<sub>179</sub> \*, 8, 2, 3; 2014 QF<sub>179</sub> \*, 7, 2, 3; 2014 QG<sub>179</sub> \*, 7, 2, 3; 2014 QH<sub>179</sub> \*, 12, 3, 10; 2014 QI<sub>179</sub> \*, 18, 4, 30; 2014 QJ<sub>179</sub> \*, 14, 4, 30; 2014 QK<sub>179</sub> \*, 15, 4, 33; 2014 QL<sub>179</sub> \*, 6, 2, 3; 2014 QM<sub>179</sub> \*, 10, 3, 7; 2014 QN<sub>179</sub> \*, 7, 2, 3; 2014 QO<sub>179</sub> \*, 10, 3, 7; 2014 QP<sub>179</sub> \*, 7, 2, 3; 2014 QV<sub>179</sub> \*, 14, 4, 30; 2014 QW<sub>179</sub> \*, 7, 2, 2; 2014 QX<sub>179</sub> \*, 8, 2, 2; 2014 QY<sub>179</sub> \*, 15, 4, 109; 2014 QZ<sub>179</sub> \*, 8, 2, 2; 2014 QA<sub>180</sub> \*, 5, 2, 2; 2014 QB<sub>180</sub> \*, 8, 2, 1; 2014 QC<sub>180</sub> \*, 8, 2, 1; 2014 QD<sub>180</sub> \*, 10, 3, 3; 2014 QE<sub>180</sub> \*, 6, 2, 1; 2014 QF<sub>180</sub> \*, 11, 3, 3; 2014 QG<sub>180</sub> \*, 7, 2, 1; 2014 QH<sub>180</sub> \*, 5, 2, 1; 2014 QI<sub>180</sub> \*, 7, 2, 1; 2014 QJ<sub>180</sub> \*, 7, 2, 1; 2014 QK<sub>180</sub> \*, 7, 2, 1; 2014 QL<sub>180</sub> \*, 7, 2, 1; 2014 QM<sub>180</sub> \*, 6, 2, 1; 2014 QN<sub>180</sub> \*, 6, 2, 1; 2014 QO<sub>180</sub> \*, 13, 4, 6; 2014 QP<sub>180</sub> \*, 7, 2, 1; 2014 QV<sub>180</sub> \*, 7, 2, 1; 2014 QW<sub>180</sub> \*, 7, 2, 1; 2014 QX<sub>180</sub> \*, 8, 2, 1; 2014 QY<sub>180</sub> \*, 8, 2, 1; 2014 QZ<sub>180</sub> \*, 7, 2, 1; 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2014 QL<sub>186</sub> \*, 6, 2, 1; 2014 QM<sub>186</sub> \*, 7, 2, 1; 2014 QN<sub>186</sub> \*, 8, 2, 1; 2014 QO<sub>186</sub> \*, 7, 2, 1; 2014 QP<sub>186</sub> \*, 7, 2, 1; 2014 QV<sub>186</sub> \*, 8, 2, 1; 2014 QW<sub>186</sub> \*, 7, 2, 1; 2014 QX<sub>186</sub> \*, 7, 2, 1; 2014 QY<sub>186</sub> \*, 7, 2, 1; 2014 QZ<sub>186</sub> \*, 6, 2, 1; 2014 QA<sub>187</sub> \*, 8, 2, 1; 2014 QB<sub>187</sub> \*, 6, 2, 1; 2014 QC<sub>187</sub> \*, 8, 2, 1; 2014 QD<sub>187</sub> \*, 7, 2, 1; 2014 QE<sub>187</sub> \*, 8, 2, 1; 2014 QF<sub>187</sub> \*, 6, 2, 1; 2014 QG<sub>187</sub> \*, 8, 2, 1; 2014 QH<sub>187</sub> \*, 7, 2, 1; 2014 QI<sub>187</sub> \*, 7, 2, 1; 2014 QJ<sub>187</sub> \*, 6, 2, 1; 2014 QK<sub>187</sub> \*, 8, 2, 1; 2014 QL<sub>187</sub> \*, 8, 2, 1; 2014 QM<sub>187</sub> \*, 7, 2, 1; 2014 QN<sub>187</sub> \*, 5, 2, 1; 2014 QO<sub>187</sub> \*, 6, 2, 1; 2014 QP<sub>187</sub> \*, 6, 2, 1; 2014 QV<sub>187</sub> \*, 7, 2, 1; 2014 QW<sub>187</sub> \*, 7, 2, 1; 2014 QX<sub>187</sub> \*, 7, 2, 1; 2014 QY<sub>187</sub> \*, 7, 2, 1; 2014 QZ<sub>187</sub> \*, 7, 2, 1; 2014 QA<sub>188</sub> \*, 6, 2, 1; 2014 QB<sub>188</sub> \*, 11, 3, 60; 2014 QC<sub>188</sub> \*, 7, 2, 1; 2014 QD<sub>188</sub> \*, 7, 2, 1; 2014 QE<sub>188</sub> \*, 7, 2, 1; 2014 QF<sub>188</sub> \*, 7, 2, 1; 2014 QG<sub>188</sub> \*, 7, 2, 1; 2014 QH<sub>188</sub> \*, 7, 2, 1; 2014 QI



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2, 1;	2014 QJ191	*, 8, 2, 1;	2014 QK191	*, 7, 2, 1;	2014 QL191	*, 8, 2, 1;	2014 QM191	*, 7, 2, 1;
2, 1;	2014 QN191	*, 8, 2, 1;	2014 QO191	*, 8, 2, 1;	2014 QP191	*, 7, 2, 1;	2014 QQ191	*, 7, 2, 1;
2, 1;	2014 QR191	*, 8, 2, 1;	2014 QS191	*, 7, 2, 1;	2014 QT191	*, 8, 2, 1;	2014 QU191	*, 8, 2, 1;
2, 1;	2014 QV191	*, 7, 2, 1;	2014 QW191	*, 8, 2, 1;	2014 QX191	*, 4, 2, 1;	2014 QY191	*, 8, 2, 1;
2, 1;	2014 QZ191	*, 8, 2, 1;	2014 QA192	*, 8, 2, 1;	2014 QB192	*, 6, 2, 1;	2014 QC192	*, 8, 2, 1;
2, 1;	2014 QD192	*, 8, 2, 1;	2014 QE192	*, 7, 2, 1;	2014 QF192	*, 7, 2, 1;	2014 QG192	*, 8, 2, 1;
2, 1;	2014 QH192	*, 7, 2, 1;	2014 QJ192	*, 7, 2, 1;	2014 QK192	*, 8, 2, 1;	2014 QL192	*, 7, 2, 1;
2, 1;	2014 QM192	*, 8, 2, 1;	2014 QN192	*, 8, 2, 1;	2014 QO192	*, 8, 2, 1;	2014 QP192	*, 7, 2, 1;
2, 1;	2014 QQ192	*, 7, 2, 1;	2014 QR192	*, 8, 2, 1;	2014 QS192	*, 7, 2, 1;	2014 QT192	*, 7, 2, 1;
2, 1;	2014 QU192	*, 15, 2, 1;	2014 QV192	*, 7, 2, 1;	2014 QW192	*, 7, 2, 1;	2014 QX192	*, 7, 2, 1;
2, 1;	2014 QY192	*, 8, 2, 1;	2014 QZ192	*, 7, 2, 1;	2014 QA193	*, 8, 2, 1;	2014 QB193	*, 6, 2, 1;
2, 1;	2014 QC193	*, 6, 2, 1;	2014 QD193	*, 8, 2, 1;	2014 QE193	*, 7, 2, 1;	2014 QF193	*, 7, 2, 1;
2, 1;	2014 QG193	*, 8, 2, 1;	2014 QH193	*, 8, 2, 1;	2014 QJ193	*, 8, 2, 1;	2014 QK193	*, 8, 2, 1;
2, 1;	2014							

2, 1; 2014 QA<sub>199</sub> \*, 7, 2, 1; 2014 QB<sub>199</sub> \*, 7, 2, 1; 2014 QC<sub>199</sub> \*, 8, 2, 1; 2014 QD<sub>199</sub> \*, 7, 2, 1; 2014 QE<sub>199</sub> \*, 7, 2, 1; 2014 QF<sub>199</sub> \*, 6, 2, 1; 2014 QG<sub>199</sub> \*, 8, 2, 1; 2014 QH<sub>199</sub> \*, 8, 2, 1; 2014 QJ<sub>199</sub> \*, 7, 2, 1; 2014 QK<sub>199</sub> \*, 7, 2, 1; 2014 QL<sub>199</sub> \*, 8, 2, 1; 2014 QM<sub>199</sub> \*, 7, 2, 1; 2014 QN<sub>199</sub> \*, 8, 2, 1; 2014 QO<sub>199</sub> \*, 6, 2, 1; 2014 QP<sub>199</sub> \*, 7, 2, 1; 2014 QQ<sub>199</sub> \*, 8, 2, 1; 2014 QR<sub>199</sub> \*, 8, 2, 1; 2014 QS<sub>199</sub> \*, 7, 2, 1; 2014 QT<sub>199</sub> \*, 8, 2, 1; 2014 QU<sub>199</sub> \*, 7, 2, 1; 2014 QV<sub>199</sub> \*, 6, 2, 1; 2014 QW<sub>199</sub> \*, 8, 2, 1; 2014 QX<sub>199</sub> \*, 8, 2, 1; 2014 QY<sub>199</sub> \*, 8, 2, 1; 2014 QZ<sub>199</sub> \*, 8, 2, 1; 2014 QA<sub>200</sub> \*, 6, 2, 1; 2014 QB<sub>200</sub> \*, 7, 2, 1; 2014 QC<sub>200</sub> \*, 7, 2, 1; 2014 QD<sub>200</sub> \*, 7, 2, 1; 2014 QE<sub>200</sub> \*, 4, 1, 0; 2014 QF<sub>200</sub> \*, 7, 2, 1; 2014 QG<sub>200</sub> \*, 8, 2, 1; 2014 QH<sub>200</sub> \*, 6, 2, 1; 2014 QJ<sub>200</sub> \*, 7, 2, 1; 2014 QK<sub>200</sub> \*, 8, 2, 1; 2014 QL<sub>200</sub> \*, 8, 2, 1; 2014 QM<sub>200</sub> \*, 7, 2, 1; 2014 QN<sub>200</sub> \*, 8, 2, 1; 2014 QO<sub>200</sub> \*, 6, 2, 1; 2014 QP<sub>200</sub> \*, 8, 2, 1; 2014 QQ<sub>200</sub> \*, 6, 2, 1; 2014 QR<sub>200</sub> \*, 8, 2, 1; 2014 QS<sub>200</sub> \*, 7, 2, 1; 2014 QT<sub>200</sub> \*, 8, 2, 1; 2014 QU<sub>200</sub> \*, 8, 2, 1; 2014 QV<sub>200</sub> \*, 6, 2, 1; 2014 QW<sub>200</sub> \*, 7, 2, 1; 2014 QX<sub>200</sub> \*, 7, 2, 1; 2014 QY<sub>200</sub> \*, 5, 2, 1; 2014 QZ<sub>200</sub> \*, 7, 2, 1; 2014 QA<sub>201</sub> \*, 7, 2, 1; 2014 QB<sub>201</sub> \*, 7, 2, 1; 2014 QC<sub>201</sub> \*, 6, 2, 1; 2014 QD<sub>201</sub> \*, 8, 2, 1; 2014 QE<sub>201</sub> \*, 5, 2, 1; 2014 QF<sub>201</sub> \*, 7, 2, 1; 2014 QG<sub>201</sub> \*, 7, 2, 1; 2014 QH<sub>201</sub> \*, 6, 2, 1; 2014 QJ<sub>201</sub> \*, 7, 2, 1; 2014 QK<sub>201</sub> \*, 8, 2, 1; 2014 QL<sub>201</sub> \*, 8, 2, 1; 2014 QM<sub>201</sub> \*, 7, 2, 1; 2014 QN<sub>201</sub> \*, 7, 2, 1; 2014 QO<sub>201</sub> \*, 6, 2, 1; 2014 QP<sub>201</sub> \*, 7, 2, 1; 2014 QQ<sub>201</sub> \*, 8, 2, 1; 2014 QR<sub>201</sub> \*, 6, 2, 1; 2014 QS<sub>201</sub> \*, 8, 2, 1; 2014 QT<sub>201</sub> \*, 7, 2, 1; 2014 QU<sub>201</sub> \*, 8, 2, 1; 2014 QV<sub>201</sub> \*, 7, 2, 1; 2014 QW<sub>201</sub> \*, 7, 2, 1; 2014 QX<sub>201</sub> \*, 6, 2, 1; 2014 QY<sub>201</sub> \*, 6, 2, 1; 2014 QZ<sub>201</sub> \*, 6, 2, 1; 2014 QA<sub>202</sub> \*, 10, 2, 1; 2014 QB<sub>202</sub> \*, 8, 2, 1; 2014 QC<sub>202</sub> \*, 7, 2, 1; 2014 QD<sub>202</sub> \*, 10, 3, 47; 2014 QE<sub>202</sub> \*, 6, 2, 1; 2014 QF<sub>202</sub> \*, 6, 2, 1; 2014 QG<sub>202</sub> \*, 7, 2, 1; 2014 QH<sub>202</sub> \*, 6, 2, 1; 2014 QJ<sub>202</sub> \*, 11, 2, 1; 2014 QK<sub>202</sub> \*, 8, 2, 1; 2014 QL<sub>202</sub> \*, 6, 2, 1; 2014 QM<sub>202</sub> \*, 7, 2, 1; 2014 QN<sub>202</sub> \*, 8, 2, 1; 2014 QO<sub>202</sub> \*, 8, 2, 1; 2014 QP<sub>202</sub> \*, 7, 2, 1; 2014 QQ<sub>202</sub> \*, 7, 2, 1; 2014 QR<sub>202</sub> \*, 6, 2, 1; 2014 QS<sub>202</sub> \*, 8, 2, 1; 2014 QT<sub>202</sub> \*, 6, 2, 1; 2014 QU<sub>202</sub> \*, 10, 3, 11; 2014 QV<sub>202</sub> \*, 8, 2, 1; 2014 QW<sub>202</sub> \*, 8, 2, 1; 2014 QX<sub>202</sub> \*, 7, 2, 1; 2014 QY<sub>202</sub> \*, 7, 2, 1; 2014 QZ<sub>202</sub> \*, 8, 2, 1; 2014 QA<sub>203</sub> \*, 12, 3, 11; 2014 QB<sub>203</sub> \*, 7, 2, 1; 2014 QC<sub>203</sub> \*, 7, 2, 1; 2014 QD<sub>203</sub> \*, 8, 2, 1; 2014 QE<sub>203</sub> \*, 8, 2, 1; 2014 QF<sub>203</sub> \*, 11, 3, 11; 2014 QG<sub>203</sub> \*, 8, 2, 1; 2014 QH<sub>203</sub> \*, 8, 2, 1; 2014 QJ<sub>203</sub> \*, 6, 2, 1; 2014 QK<sub>203</sub> \*, 8, 2, 1; 2014 QL<sub>203</sub> \*, 8, 2, 1; 2014 QM<sub>203</sub> \*, 8, 2, 1; 2014 QN<sub>203</sub> \*, 7, 2, 1; 2014 QO<sub>203</sub> \*, 8, 2, 1; 2014 QP<sub>203</sub> \*, 6, 2, 1; 2014 QQ<sub>203</sub> \*, 9, 3, 11; 2014 QR<sub>203</sub> \*, 6, 2, 1; 2014 QS<sub>203</sub> \*, 7, 2, 1; 2014 QT<sub>203</sub> \*, 7, 2, 1; 2014 QU<sub>203</sub> \*, 6, 2, 1; 2014 QV<sub>203</sub> \*, 7, 2, 1; 2014 QW<sub>203</sub> \*, 8, 2, 1; 2014 QX<sub>203</sub> \*, 7, 2, 1; 2014 QY<sub>203</sub> \*, 8, 2, 1; 2014 QZ<sub>203</sub> \*, 6, 2, 1; 2014 QA<sub>204</sub> \*, 7, 2, 1; 2014 QB<sub>204</sub> \*, 7, 2, 1; 2014 QC<sub>204</sub> \*, 7, 2, 1; 2014 QD<sub>204</sub> \*, 12, 3, 60; 2014 QE<sub>204</sub> \*, 8, 2, 1; 2014 QF<sub>204</sub> \*, 5, 2, 1; 2014 QG<sub>204</sub> \*, 7, 2, 1; 2014 QH<sub>204</sub> \*, 6, 2, 1; 2014 QJ<sub>204</sub> \*, 7, 2, 1; 2014 QK<sub>204</sub> \*, 6, 2, 1; 2014 QL<sub>204</sub> \*, 7, 2, 1; 2014 QM<sub>204</sub> \*, 7, 2, 1; 2014 QN<sub>204</sub> \*, 8, 2, 1; 2014 QO<sub>204</sub> \*, 8, 2, 1; 2014 QP<sub>204</sub> \*, 7, 2, 1; 2014 QQ<sub>204</sub> \*, 7, 2, 1; 2014 QR<sub>204</sub> \*, 8, 2, 1; 2014 QS<sub>204</sub> \*, 7, 2, 1; 2014 QT<sub>204</sub> \*, 8, 2, 1; 2014 QU<sub>204</sub> \*, 8, 2, 1; 2014 QV<sub>204</sub> \*, 8, 2, 1; 2014 QW<sub>204</sub> \*, 7, 2, 1; 2014 QX<sub>204</sub> \*, 7, 2, 1; 2014 QY<sub>204</sub> \*, 8, 2, 1; 2014 QZ<sub>204</sub> \*, 7, 2, 1; 2014 QA<sub>205</sub> \*, 7, 2, 1; 2014 QB<sub>205</sub> \*, 7, 2, 1; 2014 QC<sub>205</sub> \*, 8, 2, 1; 2014 QD<sub>205</sub> \*, 12, 3, 60; 2014 QE<sub>205</sub> \*, 10, 2, 1; 2014 QF<sub>205</sub> \*, 8, 2, 1; 2014 QG<sub>205</sub> \*, 12, 2, 1; 2014 QH<sub>205</sub> \*, 8, 2, 1; 2014 QJ<sub>205</sub> \*, 7, 2, 1;



1; 2014 QU<sub>209</sub> \*, 7, 2, 1; 2014 QV<sub>209</sub> \*, 10, 2, 1; 2014 QW<sub>209</sub> \*, 8, 2, 1; 2014 QX<sub>209</sub> \*, 11, 3, 11; 2014 QY<sub>209</sub> \*, 9, 3, 11; 2014 QZ<sub>209</sub> \*, 10, 3, 11; 2014 QA<sub>210</sub> \*, 8, 2, 1; 2014 QB<sub>210</sub> \*, 6, 2, 1; 2014 QC<sub>210</sub> \*, 8, 2, 1; 2014 QD<sub>210</sub> \*, 7, 2, 1; 2014 QE<sub>210</sub> \*, 7, 2, 1; 2014 QF<sub>210</sub> \*, 8, 2, 1; 2014 QG<sub>210</sub> \*, 7, 2, 1; 2014 QH<sub>210</sub> \*, 7, 2, 1; 2014 QJ<sub>210</sub> \*, 8, 2, 1; 2014 QK<sub>210</sub> \*, 9, 3, 11; 2014 QL<sub>210</sub> \*, 11, 2, 1; 2014 QM<sub>210</sub> \*, 7, 2, 1; 2014 QN<sub>210</sub> \*, 8, 2, 1; 2014 QO<sub>210</sub> \*, 8, 2, 1; 2014 QP<sub>210</sub> \*, 6, 2, 1; 2014 QQ<sub>210</sub> \*, 7, 2, 1; 2014 QR<sub>210</sub> \*, 8, 2, 1; 2014 QS<sub>210</sub> \*, 7, 2, 1; 2014 QT<sub>210</sub> \*, 8, 2, 1; 2014 QU<sub>210</sub> \*, 8, 2, 1; 2014 QV<sub>210</sub> \*, 8, 2, 1; 2014 QW<sub>210</sub> \*, 7, 2, 1; 2014 QX<sub>210</sub> \*, 7, 2, 1; 2014 QY<sub>210</sub> \*, 7, 2, 1; 2014 QZ<sub>210</sub> \*, 8, 2, 1; 2014 QA<sub>211</sub> \*, 9, 3, 11; 2014 QB<sub>211</sub> \*, 12, 3, 11; 2014 QC<sub>211</sub> \*, 6, 2, 1; 2014 QD<sub>211</sub> \*, 7, 2, 1; 2014 QE<sub>211</sub> \*, 8, 2, 1; 2014 QF<sub>211</sub> \*, 7, 2, 1; 2014 QG<sub>211</sub> \*, 11, 3, 11; 2014 QH<sub>211</sub> \*, 7, 2, 1; 2014 QJ<sub>211</sub> \*, 9, 3, 11; 2014 QK<sub>211</sub> \*, 8, 2, 1; 2014 QL<sub>211</sub> \*, 7, 2, 1; 2014 QM<sub>211</sub> \*, 12, 3, 11; 2014 QN<sub>211</sub> \*, 8, 2, 1; 2014 QO<sub>211</sub> \*, 8, 2, 1; 2014 QP<sub>211</sub> \*, 6, 2, 1; 2014 QQ<sub>211</sub> \*, 7, 2, 1; 2014 QR<sub>211</sub> \*, 7, 2, 1; 2014 QS<sub>211</sub> \*, 10, 3, 11; 2014 QT<sub>211</sub> \*, 6, 2, 1; 2014 QU<sub>211</sub> \*, 7, 2, 1; 2014 QV<sub>211</sub> \*, 6, 2, 1; 2014 QW<sub>211</sub> \*, 7, 2, 1; 2014 QX<sub>211</sub> \*, 7, 2, 1; 2014 QY<sub>211</sub> \*, 6, 2, 1; 2014 QZ<sub>211</sub> \*, 10, 2, 1; 2014 QA<sub>212</sub> \*, 11, 3, 11; 2014 QB<sub>212</sub> \*, 9, 3, 11; 2014 QC<sub>212</sub> \*, 17, 5, 36; 2014 QD<sub>212</sub> \*, 6, 2, 1; 2014 QE<sub>212</sub> \*, 7, 2, 1; 2014 QF<sub>212</sub> \*, 7, 2, 1; 2014 QG<sub>212</sub> \*, 6, 2, 1; 2014 QH<sub>212</sub> \*, 10, 3, 19; 2014 QJ<sub>212</sub> \*, 8, 2, 1; 2014 QK<sub>212</sub> \*, 10, 3, 11; 2014 QL<sub>212</sub> \*, 8, 2, 1; 2014 QM<sub>212</sub> \*, 8, 2, 1; 2014 QN<sub>212</sub> \*, 7, 2, 1; 2014 QO<sub>212</sub> \*, 6, 2, 1; 2014 QP<sub>212</sub> \*, 8, 2, 1; 2014 QQ<sub>212</sub> \*, 7, 2, 1; 2014 QR<sub>212</sub> \*, 7, 2, 1; 2014 QS<sub>212</sub> \*, 5, 2, 1; 2014 QT<sub>212</sub> \*, 7, 2, 1; 2014 QU<sub>212</sub> \*, 7, 2, 1; 2014 QV<sub>212</sub> \*, 7, 2, 1; 2014 QW<sub>212</sub> \*, 7, 2, 1; 2014 QX<sub>212</sub> \*, 8, 2, 1; 2014 QY<sub>212</sub> \*, 8, 2, 1; 2014 QZ<sub>212</sub> \*, 6, 2, 1; 2014 QA<sub>213</sub> \*, 8, 2, 1; 2014 QB<sub>213</sub> \*, 8, 2, 1; 2014 QC<sub>213</sub> \*, 7, 2, 1; 2014 QD<sub>213</sub> \*, 6, 2, 1; 2014 QE<sub>213</sub> \*, 7, 2, 1; 2014 QF<sub>213</sub> \*, 6, 2, 1; 2014 QG<sub>213</sub> \*, 7, 2, 1; 2014 QH<sub>213</sub> \*, 8, 2, 1; 2014 QJ<sub>213</sub> \*, 7, 2, 1; 2014 QK<sub>213</sub> \*, 7, 2, 1; 2014 QL<sub>213</sub> \*, 10, 2, 1; 2014 QM<sub>213</sub> \*, 7, 2, 1; 2014 QN<sub>213</sub> \*, 7, 2, 1; 2014 QO<sub>213</sub> \*, 8, 2, 1; 2014 QP<sub>213</sub> \*, 6, 2, 1; 2014 QQ<sub>213</sub> \*, 8, 2, 1; 2014 QR<sub>213</sub> \*, 8, 2, 1; 2014 QS<sub>213</sub> \*, 6, 2, 1; 2014 QT<sub>213</sub> \*, 7, 2, 1; 2014 QU<sub>213</sub> \*, 6, 2, 1; 2014 QV<sub>213</sub> \*, 7, 2, 1; 2014 QW<sub>213</sub> \*, 7, 2, 1; 2014 QX<sub>213</sub> \*, 12, 2, 1; 2014 QY<sub>213</sub> \*, 8, 2, 1; 2014 QZ<sub>213</sub> \*, 7, 2, 1; 2014 QA<sub>214</sub> \*, 17, 5, 47; 2014 QB<sub>214</sub> \*, 7, 2, 1; 2014 QC<sub>214</sub> \*, 7, 2, 1; 2014 QD<sub>214</sub> \*, 6, 2, 1; 2014 QE<sub>214</sub> \*, 6, 2, 1; 2014 QF<sub>214</sub> \*, 15, 4, 26; 2014 QG<sub>214</sub> \*, 8, 2, 1; 2014 QH<sub>214</sub> \*, 8, 2, 1; 2014 QJ<sub>214</sub> \*, 7, 2, 1; 2014 QK<sub>214</sub> \*, 8, 2, 1; 2014 QL<sub>214</sub> \*, 10, 3, 20; 2014 QM<sub>214</sub> \*, 7, 2, 1; 2014 QN<sub>214</sub> \*, 8, 2, 1; 2014 QO<sub>214</sub> \*, 7, 2, 1; 2014 QP<sub>214</sub> \*, 7, 2, 1; 2014 QQ<sub>214</sub> \*, 8, 2, 1; 2014 QR<sub>214</sub> \*, 8, 2, 1; 2014 QS<sub>214</sub> \*, 7, 2, 1; 2014 QT<sub>214</sub> \*, 7, 2, 1; 2014 QU<sub>214</sub> \*, 16, 3, 26; 2014 QV<sub>214</sub> \*, 6, 2, 1; 2014 QW<sub>214</sub> \*, 8, 2, 1; 2014 QX<sub>214</sub> \*, 6, 2, 1; 2014 QY<sub>214</sub> \*, 15, 4, 26; 2014 QZ<sub>214</sub> \*, 7, 2, 1; 2014 QA<sub>215</sub> \*, 12, 4, 26; 2014 QB<sub>215</sub> \*, 12, 3, 18; 2014 QC<sub>215</sub> \*, 7, 2, 1; 2014 QD<sub>215</sub> \*, 8, 2, 1; 2014 QE<sub>215</sub> \*, 7, 2, 1; 2014 QF<sub>215</sub> \*, 8, 2, 1; 2014 QG<sub>215</sub> \*, 8, 2, 1; 2014 QH<sub>215</sub> \*, 8, 2, 1; 2014 QJ<sub>215</sub> \*, 8, 2, 1; 2014 QK<sub>215</sub> \*, 7, 2, 1; 2014 QL<sub>215</sub> \*, 6, 2, 1; 2014 QM<sub>215</sub> \*, 8, 2, 1; 2014 QN<sub>215</sub> \*, 7, 2, 1; 2014 QO<sub>215</sub> \*, 8, 2, 1; 2014 QP<sub>215</sub> \*, 7, 2, 1; 2014 QQ<sub>215</sub> \*, 8, 2, 1; 2014 QR<sub>215</sub> \*, 7, 2, 1; 2014 QS<sub>215</sub> \*, 6, 2, 1; 2014 QT<sub>215</sub> \*, 7, 2, 1; 2014 QU<sub>215</sub> \*, 8, 2, 1; 2014 QV<sub>215</sub> \*, 7, 2, 1; 2014 QW<sub>215</sub> \*, 6, 2, 1; 2014 QX<sub>215</sub> \*, 7, 2, 1; 2014 QY<sub>215</sub> \*, 8, 2, 1; 2014 QZ<sub>215</sub> \*, 6, 2, 1; 2014 QA<sub>216</sub> \*, 7, 2, 1; 2014 QB<sub>216</sub> \*, 8, 2, 1; 2014 QC<sub>216</sub> \*, 7, 2, 1; 2014 QD<sub>216</sub> \*, 7, 2, 1; 2014 QE<sub>216</sub> \*, 6, 2, 1; 2014 QF<sub>216</sub> \*, 8, 2, 1; 2014 QG<sub>216</sub> \*, 7, 2, 1; 2014 QH<sub>216</sub> \*, 7, 2, 1; 2014 QJ<sub>216</sub> \*, 8, 2, 1; 2014 QK<sub>216</sub> \*, 7, 2, 1; 2014 QL<sub>216</sub> \*, 11, 3, 26; 2014 QM<sub>216</sub> \*, 8, 2, 1; 2014 QN<sub>216</sub> \*, 7, 2, 1; 2014 QO<sub>216</sub> \*, 8, 2, 1; 2014 QP<sub>216</sub> \*, 7, 2, 1; 2014 QQ<sub>216</sub> \*, 7, 2, 1; 2014 QR<sub>216</sub> \*, 8, 2, 1; 2014 QS<sub>216</sub> \*, 12, 3, 60; 2014 QT<sub>216</sub> \*, 7, 2, 1; 2014 QU<sub>216</sub> \*, 8, 2, 1; 2014 QV<sub>216</sub> \*, 7, 2, 1; 2014 QW<sub>216</sub> \*, 8, 2, 1; 2014 QX<sub>216</sub> \*, 5, 2, 1; 2014 QY<sub>216</sub> \*, 8, 2, 1; 2014 QZ<sub>216</sub> \*, 12, 2, 1; 2014 QA<sub>217</sub> \*, 8, 2, 1; 2014 QB<sub>217</sub> \*, 7, 2, 1; 2014 QC<sub>217</sub> \*, 8, 2, 1; 2014 QD<sub>217</sub> \*, 7, 2, 1; 2014 QE<sub>217</sub> \*, 7, 2, 1; 2014 QF<sub>217</sub> \*, 8, 2, 1; 2014 QG<sub>217</sub> \*, 6, 2, 1; 2014 QH<sub>217</sub> \*, 6, 2, 1; 2014 QJ<sub>217</sub> \*, 8, 2, 1; 2014 QK<sub>217</sub> \*, 7, 2, 1; 2014 QL<sub>217</sub> \*, 6, 2, 1; 2014 QM<sub>217</sub> \*, 8, 2, 1; 2014 QN<sub>217</sub> \*, 8, 2, 1; 2014 QO<sub>217</sub> \*, 7, 2, 1; 2014 QP<sub>217</sub> \*, 8, 2, 1; 2014 QQ<sub>217</sub> \*, 15, 3, 20; 2014 QR<sub>217</sub> \*, 8, 2, 1; 2014 QS<sub>217</sub> \*, 8, 2, 1; 2014 QT<sub>217</sub> \*, 13, 3, 20; 2014 QU<sub>217</sub> \*, 7, 2, 1; 2014 QV<sub>217</sub> \*, 7, 2, 1; 2014 QW<sub>217</sub> \*, 7, 2, 1; 2014 QX<sub>217</sub> \*, 7, 2, 1; 2014 QY<sub>217</sub> \*, 10, 3, 17; 2014 QZ<sub>217</sub> \*, 7, 2, 1; 2014 QA<sub>218</sub> \*, 18, 4, 47; 2014 QB<sub>218</sub> \*, 10, 3, 17; 2014 QC<sub>218</sub> \*, 20, 4, 26; 2014 QD<sub>218</sub> \*, 6, 2, 1; 2014 QE<sub>218</sub> \*, 8, 2, 1; 2014 QF<sub>218</sub> \*, 7, 2, 1; 2014 QG<sub>218</sub> \*, 6, 2, 1; 2014 QH<sub>218</sub> \*, 7, 2, 1; 2014 QJ<sub>218</sub> \*, 8, 2, 1; 2014 QK<sub>218</sub> \*, 19, 5, 26; 2014 QL<sub>218</sub> \*, 7, 2, 1; 2014 QM<sub>218</sub> \*, 8, 2, 1; 2014 QN<sub>218</sub> \*, 7, 2, 1; 2014 QO<sub>218</sub> \*, 6, 2, 1; 2014 QP<sub>218</sub> \*, 8, 2, 1; 2014 QQ<sub>218</sub> \*, 10, 3, 20; 2014 QR<sub>218</sub> \*, 8, 2, 1; 2014 QS<sub>218</sub> \*, 7, 2, 1; 2014 QT<sub>218</sub> \*, 14, 4, 47; 2014 QU<sub>218</sub> \*, 8, 2, 1; 2014 QV<sub>218</sub> \*, 7, 2, 1; 2014 QW<sub>218</sub> \*, 8, 2, 1; 2014 QX<sub>218</sub> \*, 7, 2, 1; 2014 QY<sub>218</sub> \*, 8, 2, 1; 2014 QZ<sub>218</sub> \*, 8, 2, 1; 2014 QA<sub>219</sub> \*, 7, 2, 1; 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2014 QF<sub>220</sub> \*, 7, 2, 1; 2014 QG<sub>220</sub> \*, 6, 2, 1; 2014 QH<sub>220</sub> \*, 7, 2, 1; 2014 QJ<sub>220</sub> \*, 7, 2, 1; 2014 QK<sub>220</sub> \*, 6, 2, 1; 2014 QL<sub>220</sub> \*, 6, 2, 1; 2014 QM<sub>220</sub> \*, 7, 2, 1; 2014 QN<sub>220</sub> \*, 6, 2, 1; 2014 QO<sub>220</sub> \*, 7, 2, 1; 2014 QP<sub>220</sub> \*, 9, 3, 11; 2014 QQ<sub>220</sub> \*, 7,

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2014 QV<sub>221</sub> \*, 6, 2, 1; 2014 QW<sub>221</sub> \*, 7, 2, 1; 2014 QX<sub>221</sub> \*, 6, 2, 1; 2014 QY<sub>221</sub> \*, 10, 3, 11; 2014 QZ<sub>221</sub> \*, 6, 2, 1; 2014 QA<sub>222</sub> \*, 7, 2, 1; 2014 QB<sub>222</sub> \*, 7, 2, 1; 2014 QC<sub>222</sub> \*, 7, 2, 1; 2014 QD<sub>222</sub> \*, 6, 2, 1; 2014 QE<sub>222</sub> \*, 7, 2, 1; 2014 QF<sub>222</sub> \*, 6, 2, 1; 2014 QG<sub>222</sub> \*, 7, 2, 1; 2014 QH<sub>222</sub> \*, 5, 2, 1; 2014 QJ<sub>222</sub> \*, 7, 2, 1; 2014 QK<sub>222</sub> \*, 6, 2, 1; 2014 QL<sub>222</sub> \*, 6, 2, 1; 2014 QM<sub>222</sub> \*, 7, 2, 1; 2014 QN<sub>222</sub> \*, 6, 2, 1; 2014 QO<sub>222</sub> \*, 7, 2, 1; 2014 QP<sub>222</sub> \*, 7, 2, 1; 2014 QQ<sub>222</sub> \*, 6, 2, 1; 2014 QR<sub>222</sub> \*, 5, 2, 1; 2014 QS<sub>222</sub> \*, 7, 2, 1; 2014 QT<sub>222</sub> \*, 7, 2, 1; 2014 QU<sub>222</sub> \*, 6, 2, 1; 2014 QV<sub>222</sub> \*, 7, 2, 1; 2014 QW<sub>222</sub> \*, 6, 2, 1; 2014 QX<sub>222</sub> \*, 7, 2, 1; 2014 QY<sub>222</sub> \*, 6, 2, 1; 2014 QZ<sub>222</sub> \*, 6, 2, 1; 2014 QA<sub>223</sub> \*, 7, 2, 1; 2014 QB<sub>223</sub> \*, 7, 2, 1; 2014 QC<sub>223</sub> \*, 7, 2, 1; 2014 QD<sub>223</sub> \*, 7, 2, 1; 2014 QE<sub>223</sub> \*, 6, 2, 1; 2014 QF<sub>223</sub> \*, 7, 2, 1; 2014 QG<sub>223</sub> \*, 6, 2, 1; 2014 QH<sub>223</sub> \*, 6, 2, 1; 2014 QJ<sub>223</sub> \*, 6, 2, 1; 2014 QK<sub>223</sub> \*, 10, 3, 11; 2014 QL<sub>223</sub> \*, 6, 2, 1; 2014 QM<sub>223</sub> \*, 10, 3, 11; 2014 QN<sub>223</sub> \*, 6, 2, 1; 2014 QO<sub>223</sub> \*, 6, 2, 1; 2014 QP<sub>223</sub> \*, 6, 2, 1; 2014 QQ<sub>223</sub> \*, 9, 2, 1; 2014 QR<sub>223</sub> \*, 6, 2, 1; 2014 QS<sub>223</sub> \*, 7, 2, 1; 2014 QT<sub>223</sub> \*, 6, 2, 1; 2014 QU<sub>223</sub> \*, 7, 2, 1; 2014 QV<sub>223</sub> \*, 10, 3, 26; 2014 QW<sub>223</sub> \*, 7, 2, 1; 2014 QX<sub>223</sub> \*, 7, 2, 1; 2014 QY<sub>223</sub> \*, 6, 2, 1; 2014 QZ<sub>223</sub> \*, 6, 2, 1; 2014 QA<sub>224</sub> \*, 7, 2, 1; 2014 QB<sub>224</sub> \*, 7, 2, 1; 2014 QC<sub>224</sub> \*, 7, 2, 1; 2014 QD<sub>224</sub> \*, 6, 2, 1; 2014 QE<sub>224</sub> \*, 6, 2, 1; 2014 QF<sub>224</sub> \*, 7, 2, 1; 2014 QG<sub>224</sub> \*, 6, 2, 1; 2014 QH<sub>224</sub> \*, 7, 2, 1; 2014 QJ<sub>224</sub> \*, 13, 4, 28; 2014 QK<sub>224</sub> \*, 7, 2, 1; 2014 QL<sub>224</sub> \*, 7, 2, 1; 2014 QM<sub>224</sub> \*, 11, 3, 26; 2014 QN<sub>224</sub> \*, 17, 5, 28; 2014 QO<sub>224</sub> \*, 5, 2, 1; 2014 QP<sub>224</sub> \*, 11, 3, 26; 2014 QQ<sub>224</sub> \*, 7, 2, 1; 2014 QR<sub>224</sub> \*, 11, 3, 26; 2014 QS<sub>224</sub> \*, 7, 2, 1; 2014 QT<sub>224</sub> \*, 6, 2, 1; 2014 QU<sub>224</sub> \*, 6, 2, 1; 2014 QV<sub>224</sub> \*, 6, 2, 1; 2014 QW<sub>224</sub> \*, 5, 2, 1; 2014 QX<sub>224</sub> \*, 6, 2, 1; 2014 QY<sub>224</sub> \*, 6, 2, 1; 2014 QZ<sub>224</sub> \*, 13, 4, 7; 2014 QA<sub>225</sub> \*, 5, 2, 1; 2014 QB<sub>225</sub> \*, 5, 2, 1; 2014 QC<sub>225</sub> \*, 4, 2, 1; 2014 QD<sub>225</sub> \*, 5, 2, 1; 2014 QE<sub>225</sub> \*, 6, 2, 1; 2014 QF<sub>225</sub> \*, 6, 2, 1; 2014 QG<sub>225</sub> \*, 10, 3, 11; 2014 QH<sub>225</sub> \*, 10, 2, 1; 2014 QJ<sub>225</sub> \*, 6, 2, 1; 2014 QK<sub>225</sub> \*, 5, 2, 1; 2014 QL<sub>225</sub> \*, 6, 2, 1; 2014 QM<sub>225</sub> \*, 5, 2, 1; 2014 QN<sub>225</sub> \*, 14, 3, 26; 2014 QO<sub>225</sub> \*, 6, 2, 1; 2014 QP<sub>225</sub> \*, 8, 2, 1; 2014 QQ<sub>225</sub> \*, 12, 3, 17; 2014 QR<sub>225</sub> \*, 11, 3, 26; 2014 QS<sub>225</sub> \*, 7, 2, 1; 2014 QT<sub>225</sub> \*, 17, 5, 47; 2014 QU<sub>225</sub> \*, 6, 2, 1; 2014 QV<sub>225</sub> \*, 12, 4, 47; 2014 QW<sub>225</sub> \*, 6, 2, 1; 2014 QX<sub>225</sub> \*, 14, 4, 18; 2014 QY<sub>225</sub> \*, 7, 2, 1; 2014 QZ<sub>225</sub> \*, 14, 3, 3; 2014 QA<sub>226</sub> \*, 12, 2, 1; 2014 QB<sub>226</sub> \*, 8, 2, 1; 2014 QC<sub>226</sub> \*, 8, 2, 1; 2014 QD<sub>226</sub> \*, 8, 2, 1; 2014 QE<sub>226</sub> \*, 6, 2, 1; 2014 QF<sub>226</sub> \*, 7, 2, 1; 2014 QG<sub>226</sub> \*, 8, 2, 1; 2014 QH<sub>226</sub> \*, 6, 2, 1; 2014 QJ<sub>226</sub> \*, 8, 2, 1; 2014 QK<sub>226</sub> \*, 7, 2, 1; 2014 QL<sub>226</sub> \*, 8, 2, 1; 2014 QM<sub>226</sub> \*, 7, 2, 1; 2014 QN<sub>226</sub> \*, 7, 2, 1; 2014 QO<sub>226</sub> \*, 8, 2, 1; 2014 QP<sub>226</sub> \*, 24, 5, 26; 2014 QQ<sub>226</sub> \*, 7, 2, 1; 2014 QR<sub>226</sub> \*, 12, 3, 3; 2014 QS<sub>226</sub> \*, 15, 5, 47; 2014 QT<sub>226</sub> \*, 8, 2, 1; 2014 QU<sub>226</sub> \*, 6, 2, 1; 2014 QV<sub>226</sub> \*, 8, 2, 1; 2014 QW<sub>226</sub> \*, 6, 2, 1; 2014 QX<sub>226</sub> \*, 7, 2, 1; 2014 QY<sub>226</sub> \*, 10, 3, 26; 2014 QZ<sub>226</sub> \*, 8, 2, 1; 2014 QA<sub>227</sub> \*, 7, 2, 1; 2014 QB<sub>227</sub> \*, 7, 2, 1; 2014 QC<sub>227</sub> \*, 23, 6, 36; 2014 QD<sub>227</sub> \*, 13, 4, 13; 2014 QE<sub>227</sub> \*, 20, 6, 47; 2014 QF<sub>227</sub> \*, 15, 4, 8; 2014 QG<sub>227</sub> \*, 19, 5, 31; 2014 QH<sub>227</sub> \*, 7, 2, 1; 2014 QJ<sub>227</sub> \*, 11, 3, 26; 2014 QK<sub>227</sub> \*, 8, 2, 1; 2014 QL<sub>227</sub> \*, 6, 2, 1; 2014 QM<sub>227</sub> \*, 6, 2, 1; 2014 QN<sub>227</sub> \*, 7, 2, 1; 2014 QO<sub>227</sub> \*, 11, 3, 18; 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1; 2014 QO<sub>231</sub> \*, 10, 3, 3; 2014 QP<sub>231</sub> \*, 12, 3, 3; 2014 QQ<sub>231</sub> \*, 6, 2, 1; 2014 QR<sub>231</sub> \*, 6, 2, 1; 2014 QS<sub>231</sub> \*, 7, 2, 1; 2014 QT<sub>231</sub> \*, 5, 2, 1; 2014 QU<sub>231</sub> \*, 11, 3, 3; 2014 QV<sub>231</sub> \*, 7, 2, 1; 2014 QW<sub>231</sub> \*, 7, 2, 1; 2014 QX<sub>231</sub> \*, 12, 3, 3; 2014 QY<sub>231</sub> \*, 8, 2, 1; 2014 QZ<sub>231</sub> \*, 8, 2, 1; 2014 QA<sub>232</sub> \*, 7, 2, 1; 2014 QB<sub>232</sub> \*, 7, 2, 1; 2014 QC<sub>232</sub> \*, 7, 2, 1; 2014 QD<sub>232</sub> \*, 8, 2, 1; 2014 QE<sub>232</sub> \*, 8, 2, 1; 2014 QF<sub>232</sub> \*, 12, 4, 20; 2014 QG<sub>232</sub> \*, 8, 2, 1; 2014 QH<sub>232</sub> \*, 14, 4, 28; 2014 QJ<sub>232</sub> \*, 11, 3, 3; 2014 QK<sub>232</sub> \*, 11, 2, 1; 2014 QL<sub>232</sub> \*, 8, 2, 1; 2014 QM<sub>232</sub> \*, 8, 2, 1; 2014 QN<sub>232</sub> \*, 8, 2, 1; 2014 QO<sub>232</sub> \*, 8, 2, 1; 2014 QP<sub>232</sub> \*, 11, 3, 3; 2014 QQ<sub>232</sub> \*, 18, 5, 52; 2014 QR<sub>232</sub> \*, 12, 3, 6; 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2014 QA<sub>235</sub> \*, 6, 2, 1; 2014 QB<sub>235</sub> \*, 7, 2, 1; 2014 QC<sub>235</sub> \*, 5, 2, 1; 2014 QD<sub>235</sub> \*, 7, 2, 1; 2014 QE<sub>235</sub> \*, 6, 2, 1; 2014 QF<sub>235</sub> \*, 10, 3, 3; 2014 QG<sub>235</sub> \*, 11, 3, 3; 2014 QH<sub>235</sub> \*, 8, 2, 1; 2014 QJ<sub>235</sub> \*, 16, 4, 47; 2014 QK<sub>235</sub> \*, 7, 2, 1; 2014 QL<sub>235</sub> \*, 8, 2, 1; 2014 QM<sub>235</sub> \*, 8, 2, 1; 2014 QN<sub>235</sub> \*, 7, 2, 1; 2014 QO<sub>235</sub> \*, 8, 2, 1; 2014 QP<sub>235</sub> \*, 7, 2, 1; 2014 QQ<sub>235</sub> \*, 8, 2, 1; 2014 QR<sub>235</sub> \*, 10, 3, 3; 2014 QS<sub>235</sub> \*, 8, 2, 1; 2014 QT<sub>235</sub> \*, 9, 3, 3; 2014 QU<sub>235</sub> \*, 6, 2, 1; 2014 QV<sub>235</sub> \*, 8, 2, 1; 2014 QW<sub>235</sub> \*, 8, 2, 1; 2014 QX<sub>235</sub> \*, 11, 3, 3; 2014 QY<sub>235</sub> \*, 8, 2, 1; 2014 QZ<sub>235</sub> \*, 11, 3, 47; 2014 QA<sub>236</sub> \*, 6, 2, 1; 2014 QB<sub>236</sub> \*, 11, 3, 3; 2014 QC<sub>236</sub> \*, 8, 2, 1; 2014 QD<sub>236</sub> \*, 8, 2, 1; 2014 QE<sub>236</sub> \*, 15, 4, 26; 2014 QF<sub>236</sub> \*, 8, 2, 1; 2014 QG<sub>236</sub> \*, 11, 3, 3; 2014 QH<sub>236</sub> \*, 8, 2, 1; 2014 QJ<sub>236</sub> \*, 6, 2, 1; 2014 QK<sub>236</sub> \*, 6, 2, 1; 2014 QL<sub>236</sub> \*, 8, 2, 1; 2014 QM<sub>236</sub> \*, 17, 5, 47; 2014 QN<sub>236</sub> \*, 7, 2, 1; 2014 QO<sub>236</sub> \*, 8, 2, 1; 2014 QP<sub>236</sub> \*, 7, 2, 1; 2014 QQ<sub>236</sub> \*, 11, 3, 3; 2014 QR<sub>236</sub> \*, 7, 2, 1; 2014 QS<sub>236</sub> \*, 8, 2, 1; 2014 QT<sub>236</sub> \*, 9, 3, 3; 2014 QU<sub>236</sub> \*, 7, 2, 1; 2014 QV<sub>236</sub> \*, 8, 2, 1; 2014 QW<sub>236</sub> \*, 10, 3, 28; 2014 QX<sub>236</sub> \*, 11, 3, 3; 2014 QY<sub>236</sub> \*, 8, 2, 1; 2014 QZ<sub>236</sub> \*, 12, 3, 3; 2014 QA<sub>237</sub> \*, 6, 2, 1; 2014 QB<sub>237</sub> \*, 6, 2, 1; 2014 QC<sub>237</sub> \*, 7, 2, 1; 2014 QD<sub>237</sub> \*, 7, 2, 1; 2014 QE<sub>237</sub> \*, 7, 2, 1; 2014 QF<sub>237</sub> \*, 8, 2, 1; 2014 QG<sub>237</sub> \*, 11, 3, 28; 2014 QH<sub>237</sub> \*, 11, 3, 3; 2014 QJ<sub>237</sub> \*, 7, 2, 1; 2014 QK<sub>237</sub> \*, 17, 4, 17; 2014 QL<sub>237</sub> \*, 12, 3, 3; 2014 QM<sub>237</sub> \*, 8, 2, 1; 2014 QN<sub>237</sub> \*, 6, 2, 1; 2014 QO<sub>237</sub> \*, 11, 3, 3; 2014 QP<sub>237</sub> \*, 11, 3, 3; 2014 QQ<sub>237</sub> \*, 17, 3, 3; 2014 QR<sub>237</sub> \*, 13, 4, 18; 2014 QS<sub>237</sub> \*, 8, 2, 1; 2014 QT<sub>237</sub> \*, 7, 2, 1; 2014 QU<sub>237</sub> \*, 7, 2, 1; 2014 QV<sub>237</sub> \*, 8, 2, 1; 2014 QW<sub>237</sub> \*, 8, 2, 1; 2014 QX<sub>237</sub> \*, 10, 3, 3; 2014 QY<sub>237</sub> \*, 6, 2, 1; 2014 QZ<sub>237</sub> \*, 7, 2, 1; 2014 QA<sub>238</sub> \*, 7, 2, 1; 2014 QB<sub>238</sub> \*, 8, 2, 1; 2014 QC<sub>238</sub> \*, 6, 2, 1; 2014 QD<sub>238</sub> \*, 6, 2, 1; 2014 QE<sub>238</sub> \*, 6, 2, 1; 2014 QF<sub>238</sub> \*, 8, 2, 1; 2014 QG<sub>238</sub> \*, 14, 4, 23; 2014 QH<sub>238</sub> \*, 7, 2, 1; 2014 QJ<sub>238</sub> \*, 8, 2, 1; 2014 QK<sub>238</sub> \*, 7, 2, 1; 2014 QL<sub>238</sub> \*, 7, 2, 1; 2014 QM<sub>238</sub> \*, 14, 4, 26; 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2014 QV<sub>240</sub> \*, 11, 3, 3; 2014 QW<sub>240</sub> \*, 7, 2, 1; 2014 QX<sub>240</sub> \*, 6, 2, 1; 2014 QY<sub>240</sub> \*, 7, 2, 1; 2014 QZ<sub>240</sub> \*, 5, 2, 1; 2014 QA<sub>241</sub> \*, 14, 4, 28; 2014 QB<sub>241</sub> \*, 11, 3, 3; 2014 QC<sub>241</sub> \*, 14, 3, 3; 2014 QD<sub>241</sub> \*, 7, 2, 1; 2014 QE<sub>241</sub> \*, 7, 2, 1; 2014 QF<sub>241</sub> \*, 9, 2, 1; 2014 QG<sub>241</sub> \*, 6, 2, 1; 2014 QH<sub>241</sub> \*, 6, 2, 1; 2014 QJ<sub>241</sub> \*, 11, 3, 3; 2014 QK<sub>241</sub> \*, 13, 4, 23; 2014 QL<sub>241</sub> \*, 5, 2, 1; 2014 QM<sub>241</sub> \*, 6, 2, 1; 2014 QN<sub>241</sub> \*, 12, 4, 18; 2014 QO<sub>241</sub> \*, 10, 4, 18; 2014 QP<sub>241</sub> \*, 5, 2, 1; 2014 QQ<sub>241</sub> \*, 13, 4, 17; 2014 QR<sub>241</sub> \*, 19, 5, 52; 2014 QS<sub>241</sub> \*, 8, 2, 1; 2014 QT<sub>241</sub> \*, 12, 3, 6; 2014 QU<sub>241</sub> \*, 6, 2, 1; 2014 QV<sub>241</sub> \*, 7, 2, 1; 2014 QW<sub>241</sub> \*, 8, 2, 1; 2014 QX<sub>241</sub> \*, 7, 2, 1; 2014 QY<sub>241</sub> \*, 12, 3, 6; 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2, 1; 2014 QL<sub>242</sub> \*, 8, 2, 1; 2014 QM<sub>242</sub> \*, 5, 2, 1; 2014 QN<sub>242</sub> \*, 8, 2, 1; 2014 QO<sub>242</sub> \*, 8, 2, 1; 2014 QS<sub>242</sub> \*, 8, 2, 1; 2014 QT<sub>242</sub> \*, 6, 2, 1; 2014 QU<sub>242</sub> \*, 12, 3, 11; 2014 QV<sub>242</sub> \*, 7, 2, 1; 2014 QW<sub>242</sub> \*, 8, 2, 1; 2014 QX<sub>242</sub> \*, 8, 2, 1; 2014 QY<sub>242</sub> \*, 11, 3, 11; 2014 QZ<sub>242</sub> \*, 8, 2, 1; 2014 QA<sub>243</sub> \*, 7, 2, 1; 2014 QB<sub>243</sub> \*, 12, 3, 6; 2014 QC<sub>243</sub> \*, 8, 2, 1; 2014 QD<sub>243</sub> \*, 8, 2, 1; 2014 QE<sub>243</sub> \*, 8, 2, 1; 2014 QF<sub>243</sub> \*, 8, 2, 1; 2014 QG<sub>243</sub> \*, 10, 3, 6; 2014 QH<sub>243</sub> \*, 11, 3, 6; 2014 QJ<sub>243</sub> \*, 7, 2, 1; 2014 QK<sub>243</sub> \*, 8, 2, 1; 2014 QL<sub>243</sub> \*, 6, 2, 1; 2014 QM<sub>243</sub> \*, 7, 2, 1; 2014 QN<sub>243</sub> \*, 8, 2, 1; 2014 QO<sub>243</sub> \*, 8, 2, 1; 2014 QP<sub>243</sub> \*, 7, 2, 1; 2014 QQ<sub>243</sub> \*, 7, 2, 1; 2014 QR<sub>243</sub> \*, 8, 2, 1; 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2014 QW<sub>244</sub> \*, 8, 2, 1; 2014 QX<sub>244</sub> \*, 12, 3, 6; 2014 QY<sub>244</sub> \*, 7, 2, 1; 2014 QZ<sub>244</sub> \*, 10, 3, 6; 2014 QA<sub>245</sub> \*, 11, 3, 6; 2014 QB<sub>245</sub> \*, 8, 2, 1; 2014 QC<sub>245</sub> \*, 10, 3, 4; 2014 QD<sub>245</sub> \*, 6, 2, 1; 2014 QE<sub>245</sub> \*, 12, 3, 6; 2014 QF<sub>245</sub> \*, 7, 2, 1; 2014 QG<sub>245</sub> \*, 7, 2, 1; 2014 QH<sub>245</sub> \*, 7, 2, 1; 2014 QJ<sub>245</sub> \*, 8, 2, 1; 2014 QK<sub>245</sub> \*, 14, 3, 4; 2014 QL<sub>245</sub> \*, 8, 2, 1; 2014 QM<sub>245</sub> \*, 8, 2, 1; 2014 QN<sub>245</sub> \*, 7, 2, 1; 2014 QO<sub>245</sub> \*, 7, 2, 1; 2014 QP<sub>245</sub> \*, 8, 2, 1; 2014 QQ<sub>245</sub> \*, 7, 2, 1; 2014 QR<sub>245</sub> \*, 7, 2, 1; 2014 QS<sub>245</sub> \*, 14, 3, 4; 2014 QT<sub>245</sub> \*, 10, 3, 11; 2014 QU<sub>245</sub> \*, 8, 2, 1; 2014 QV<sub>245</sub> \*, 7, 2, 1; 2014 QW<sub>245</sub> \*, 5, 2, 1; 2014 QX<sub>245</sub> \*, 8, 2, 1; 2014 QY<sub>245</sub> \*, 14, 4, 52; 2014 QZ<sub>245</sub> \*, 8, 2, 1; 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2014 QJ<sub>248</sub> \*, 8, 2, 1; 2014 QK<sub>248</sub> \*, 7, 2, 1; 2014 QL<sub>248</sub> \*, 10, 3, 11; 2014 QM<sub>248</sub> \*, 7, 2, 1; 2014 QN<sub>248</sub> \*, 6, 2, 1; 2014 QO<sub>248</sub> \*, 7, 2, 1; 2014 QP<sub>248</sub> \*, 7, 2, 1; 2014 QQ<sub>248</sub> \*, 7, 2, 1; 2014 QR<sub>248</sub> \*, 9, 3, 11; 2014 QS<sub>248</sub> \*, 7, 2, 1; 2014 QT<sub>248</sub> \*, 7, 2, 1; 2014 QU<sub>248</sub> \*, 8, 2, 1; 2014 QV<sub>248</sub> \*, 7, 2, 1; 2014 QW<sub>248</sub> \*, 8, 2, 1; 2014 QX<sub>248</sub> \*, 8, 2, 1; 2014 QY<sub>248</sub> \*, 8, 2, 1; 2014 QZ<sub>248</sub> \*, 8, 2, 1; 2014 QA<sub>249</sub> \*, 7, 2, 1; 2014 QB<sub>249</sub> \*, 7, 2, 1; 2014 QC<sub>249</sub> \*, 8, 2, 1; 2014 QD<sub>249</sub> \*, 16, 3, 11; 2014 QE<sub>249</sub> \*, 8, 2, 1; 2014 QF<sub>249</sub> \*, 6, 2, 1; 2014 QG<sub>249</sub> \*, 8, 2, 1; 2014 QH<sub>249</sub> \*, 8, 2, 1; 2014 QJ<sub>249</sub> \*, 13, 3, 11; 2014 QK<sub>249</sub> \*, 8, 2, 1; 2014 QL<sub>249</sub> \*, 8, 2, 1; 2014 QM<sub>249</sub> \*, 8, 2, 1; 2014 QN<sub>249</sub> \*, 12, 3, 11; 2014 QO<sub>249</sub> \*, 7, 2, 1; 2014 QP<sub>249</sub> \*, 10, 3, 11; 2014 QQ<sub>249</sub> \*, 8, 2, 1; 2014 QR<sub>249</sub> \*, 11, 3, 11; 2014 QS<sub>249</sub> \*, 6, 2, 1; 2014 QT<sub>249</sub> \*, 8, 2, 1; 2014 QV<sub>249</sub> \*, 6, 2, 1; 2014 QW<sub>249</sub> \*, 8, 2, 1; 2014 QX<sub>249</sub> \*, 11, 3, 11; 2014 QY<sub>249</sub> \*, 9, 3, 11; 2014 QZ<sub>249</sub> \*, 8, 2, 1; 2014 QA<sub>250</sub> \*, 7, 2, 1; 2014 QB<sub>250</sub> \*, 7, 2, 1; 2014 QC<sub>250</sub> \*, 8, 2, 1; 2014 QD<sub>250</sub> \*, 10, 3, 11; 2014 QE<sub>250</sub> \*, 10, 3, 11; 2014 QF<sub>250</sub> \*, 8, 2, 1; 2014 QG<sub>250</sub> \*, 8, 2, 1; 2014 QH<sub>250</sub> \*, 8, 2, 1; 2014 QJ<sub>250</sub> \*, 6, 2, 1; 2014 QK<sub>250</sub> \*, 8, 2, 1; 2014 QL<sub>250</sub> \*, 8, 2, 1; 2014 QM<sub>250</sub> \*, 6, 2, 1; 2014 QN<sub>250</sub> \*, 8, 2, 1; 2



6, 2, 1; 2014 QH<sub>253</sub> \*, 8, 2, 1; 2014 QJ<sub>253</sub> \*, 8, 2, 1; 2014 QK<sub>253</sub> \*, 8, 2, 1; 2014 QL<sub>253</sub> \*, 7, 2, 1; 2014 QM<sub>253</sub> \*, 16, 3, 11; 2014 QN<sub>253</sub> \*, 8, 2, 1; 2014 QO<sub>253</sub> \*, 6, 2, 1; 2014 QP<sub>253</sub> \*, 8, 2, 1; 2014 QQ<sub>253</sub> \*, 8, 2, 1; 2014 QR<sub>253</sub> \*, 7, 2, 1; 2014 QS<sub>253</sub> \*, 8, 2, 1; 2014 QT<sub>253</sub> \*, 8, 2, 1; 2014 QU<sub>253</sub> \*, 7, 2, 1; 2014 QV<sub>253</sub> \*, 6, 2, 1; 2014 QW<sub>253</sub> \*, 6, 2, 1; 2014 QX<sub>253</sub> \*, 7, 2, 1; 2014 QY<sub>253</sub> \*, 8, 2, 1; 2014 QZ<sub>253</sub> \*, 8, 2, 1; 2014 QA<sub>254</sub> \*, 8, 2, 1; 2014 QB<sub>254</sub> \*, 7, 2, 1; 2014 QC<sub>254</sub> \*, 8, 2, 1; 2014 QD<sub>254</sub> \*, 7, 2, 1; 2014 QE<sub>254</sub> \*, 8, 2, 1; 2014 QF<sub>254</sub> \*, 7, 2, 1; 2014 QG<sub>254</sub> \*, 8, 2, 1; 2014 QH<sub>254</sub> \*, 11, 3, 11; 2014 QJ<sub>254</sub> \*, 12, 3, 11; 2014 QK<sub>254</sub> \*, 7, 2, 1; 2014 QL<sub>254</sub> \*, 8, 2, 1; 2014 QM<sub>254</sub> \*, 7, 2, 1; 2014 QN<sub>254</sub> \*, 10, 3, 11; 2014 QO<sub>254</sub> \*, 8, 2, 1; 2014 QP<sub>254</sub> \*, 6, 2, 1; 2014 QQ<sub>254</sub> \*, 6, 2, 1; 2014 QR<sub>254</sub> \*, 8, 2, 1; 2014 QS<sub>254</sub> \*, 8, 2, 1; 2014 QT<sub>254</sub> \*, 6, 2, 1; 2014 QU<sub>254</sub> \*, 7, 2, 1; 2014 QV<sub>254</sub> \*, 8, 2, 1; 2014 QW<sub>254</sub> \*, 7, 2, 1; 2014 QX<sub>254</sub> \*, 8, 2, 1; 2014 QY<sub>254</sub> \*, 8, 2, 1; 2014 QZ<sub>254</sub> \*, 6, 2, 1; 2014 QA<sub>255</sub> \*, 8, 2, 1; 2014 QB<sub>255</sub> \*, 8, 2, 1; 2014 QC<sub>255</sub> \*, 6, 2, 1; 2014 QD<sub>255</sub> \*, 7, 2, 1; 2014 QE<sub>255</sub> \*, 8, 2, 1; 2014 QF<sub>255</sub> \*, 12, 3, 11; 2014 QG<sub>255</sub> \*, 12, 3, 11; 2014 QH<sub>255</sub> \*, 8, 2, 1; 2014 QJ<sub>255</sub> \*, 8, 2, 1; 2014 QK<sub>255</sub> \*, 8, 2, 1; 2014 QL<sub>255</sub> \*, 12, 3, 11; 2014 QM<sub>255</sub> \*, 11, 3, 11; 2014 QN<sub>255</sub> \*, 7, 2, 1; 2014 QO<sub>255</sub> \*, 7, 2, 1; 2014 QP<sub>255</sub> \*, 8, 2, 1; 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2014 QH<sub>260</sub> \*, 8, 2, 1; 2014 QJ<sub>260</sub> \*, 12, 3, 3; 2014 QK<sub>260</sub> \*, 12, 3, 11; 2014 QL<sub>260</sub> \*, 6, 2, 1; 2014 QM<sub>260</sub> \*, 7, 2, 1; 2014 QN<sub>260</sub> \*, 11, 3, 3; 2014 QO<sub>260</sub> \*, 8, 2, 1; 2014 QP<sub>260</sub> \*, 7, 2, 1; 2014 QR<sub>260</sub> \*, 7, 2, 1; 2014 QS<sub>260</sub> \*, 8, 2, 1; 2014 QT<sub>260</sub> \*, 7, 2, 1; 2014 QU<sub>260</sub> \*, 7, 2, 1; 2014 QV<sub>260</sub> \*, 7, 2, 1; 2014 QW<sub>260</sub> \*, 6, 2, 1; 2014 QX<sub>260</sub> \*, 6, 2, 1; 2014 QY<sub>260</sub> \*, 8, 2, 1; 2014 QZ<sub>260</sub> \*, 8, 2, 1; 2014 QA<sub>261</sub> \*, 15, 3, 11; 2014 QB<sub>261</sub> \*, 6, 2, 1; 2014 QC<sub>261</sub> \*, 8, 2, 1; 2014 QD<sub>261</sub> \*, 8, 2, 1; 2014 QE<sub>261</sub> \*, 8, 2, 1; 2014 QF<sub>261</sub> \*, 7, 2, 1; 2014 QG<sub>261</sub> \*, 8, 2, 1; 2014 QH<sub>261</sub> \*, 7, 2, 1; 2014 QJ<sub>261</sub> \*, 8, 2, 1; 2014 QK<sub>261</sub> \*, 7, 2, 1; 2014 QL<sub>261</sub> \*, 6, 2, 1; 2014 QM<sub>261</sub> \*, 15, 3, 4; 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2014 QJ<sub>265</sub> \*, 8, 3, 11; 2014 QK<sub>265</sub> \*, 6, 2, 1; 2014 QL<sub>265</sub> \*, 6, 2, 1; 2014 QM<sub>265</sub> \*, 5, 2, 1; 2014 QN<sub>265</sub> \*, 4, 1, 0; 2014 QO<sub>265</sub> \*, 4, 1, 0; 2014 QP<sub>265</sub> \*, 3, 1, 0; 2014 QQ<sub>265</sub> \*, 8, 2, 12; 2014 QU<sub>265</sub> \*, 4, 1, 0; 2014 QV<sub>265</sub> \*, 4, 1, 0; 2014 QW<sub>265</sub> \*, 8, 2, 3; 2014 QX<sub>265</sub> \*, 4, 1, 0; 2014 QY<sub>265</sub> \*, 4, 1, 0; 2014 QZ<sub>265</sub> \*, 3, 1, 0; 2014 QA<sub>266</sub> \*, 15, 4, 57; 2014 QB<sub>266</sub> \*, 7, 2, 3; 2014 QC<sub>266</sub> \*, 6, 2, 5; 2014 QD<sub>266</sub> \*, 12, 4, 29; 2014 QE<sub>266</sub> \*, 11, 3, 5; 2014 QF<sub>266</sub> \*, 3, 1, 0; 2014 QG<sub>266</sub> \*, 7, 2, 5; 2014 QH<sub>266</sub> \*, 5, 2, 1; 2014 QI<sub>266</sub> \*, 7, 2, 1; 2014 QJ<sub>266</sub> \*, 4, 1, 0; 2014 QK<sub>266</sub> \*, 8, 2, 11; 2014 QL<sub>266</sub> \*, 13, 4, 57; 2014 QM<sub>266</sub> \*, 3, 1, 0; 2014 QN<sub>266</sub> \*, 7, 2, 3; 2014 QO<sub>266</sub> \*, 6, 2, 9; 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2014 QB<sub>271</sub> \*, 12, 3, 5; 2014 QC<sub>271</sub> \*, 6, 2, 3; 2014 QD<sub>271</sub> \*, 8, 2, 3; 2014 QE<sub>271</sub> \*, 8, 2, 3; 2014 QF<sub>271</sub> \*, 8, 2, 3; 2014 QG<sub>271</sub> \*, 8, 2, 3; 2014 QH<sub>271</sub> \*, 8, 2, 3; 2014 QI<sub>271</sub> \*, 8, 2, 3; 2014 QJ<sub>271</sub> \*, 8, 2, 3; 2014 QK<sub>271</sub> \*, 8, 2, 3; 2014 QL<sub>271</sub> \*, 8, 2, 3; 2014 QM<sub>271</sub> \*, 8, 2, 3; 2014 QN<sub>271</sub> \*, 8, 2, 3; 2014 QO<sub>271</sub> \*, 8, 2, 3; 2014 QP<sub>271</sub> \*, 8, 2, 3; 2014 QQ<sub>271</sub> \*, 8, 2, 3; 2014 QR<sub>271</sub> \*, 8, 2, 3; 2014 QS<sub>271</sub> \*, 8, 2, 3; 2014 QT<sub>271</sub> \*, 8, 2, 3; 2014 QU<sub>271</sub> \*, 8, 2, 3; 2014 QV<sub>271</sub> \*, 8, 2, 3; 2014 QW<sub>271</sub> \*, 8, 2, 3; 2014 QX<sub>271</sub> \*, 8, 2, 3; 2014 QY<sub>271</sub> \*, 8, 2, 3; 2014 QZ<sub>271</sub> \*, 8, 2, 3; 2014 QA<sub>272</sub> \*, 8, 2, 3; 2014 QB<sub>272</sub> \*, 8, 2, 3; 2014 QC<sub>27</sub>



2014 QG<sub>275</sub> \*, 4, 1, 0; 2014 QH<sub>275</sub> \*, 9, 3, 2; 2014 QJ<sub>275</sub> \*, 12, 2, 2; 2014 QK<sub>275</sub> \*, 8, 2, 2; 2014 QL<sub>275</sub> \*, 4, 1, 0; 2014 QM<sub>275</sub> \*, 15, 3, 28; 2014 QN<sub>275</sub> \*, 4, 1, 0; 2014 QO<sub>275</sub> \*, 11, 3, 29; 2014 QP<sub>275</sub> \*, 7, 2, 2; 2014 QQ<sub>275</sub> \*, 4, 1, 0; 2014 QR<sub>275</sub> \*, 12, 2, 2; 2014 QS<sub>275</sub> \*, 3, 1, 0; 2014 QT<sub>275</sub> \*, 11, 2, 2; 2014 QU<sub>275</sub> \*, 15, 4, 33; 2014 QV<sub>275</sub> \*, 22, 5, 30; 2014 QW<sub>275</sub> \*, 5, 2, 1; 2014 QX<sub>275</sub> \*, 15, 3, 3; 2014 QY<sub>275</sub> \*, 7, 2, 1; 2014 QZ<sub>275</sub> \*, 7, 2, 1; 2014 QA<sub>276</sub> \*, 5, 2, 1; 2014 QB<sub>276</sub> \*, 7, 2, 1; 2014 QC<sub>276</sub> \*, 7, 2, 1; 2014 QD<sub>276</sub> \*, 8, 2, 1; 2014 QE<sub>276</sub> \*, 8, 2, 1; 2014 QF<sub>276</sub> \*, 6, 2, 1; 2014 QG<sub>276</sub> \*, 8, 2, 1; 2014 QH<sub>276</sub> \*, 6, 2, 1; 2014 QJ<sub>276</sub> \*, 6, 2, 1; 2014 QK<sub>276</sub> \*, 6, 2, 1; 2014 QL<sub>276</sub> \*, 7, 2, 1; 2014 QM<sub>276</sub> \*, 8, 2, 1; 2014 QN<sub>276</sub> \*, 7, 2, 1; 2014 QO<sub>276</sub> \*, 7, 2, 1; 2014 QP<sub>276</sub> \*, 7, 2, 1; 2014 QQ<sub>276</sub> \*, 8, 2, 1; 2014 QR<sub>276</sub> \*, 7, 2, 1; 2014 QS<sub>276</sub> \*, 8, 2, 1; 2014 QT<sub>276</sub> \*, 7, 2, 1; 2014 QU<sub>276</sub> \*, 8, 2, 1; 2014 QV<sub>276</sub> \*, 7, 2, 1; 2014 QW<sub>276</sub> \*, 24, 7, 33; 2014 QX<sub>276</sub> \*, 8, 2, 1; 2014 QY<sub>276</sub> \*, 11, 3, 2; 2014 QZ<sub>276</sub> \*, 7, 2, 1; 2014 QA<sub>277</sub> \*, 8, 2, 1; 2014 QB<sub>277</sub> \*, 6, 2, 1; 2014 QC<sub>277</sub> \*, 6, 2, 1; 2014 QD<sub>277</sub> \*, 8, 2, 2; 2014 QE<sub>277</sub> \*, 7, 2, 1; 2014 QF<sub>277</sub> \*, 7, 2, 1; 2014 QG<sub>277</sub> \*, 8, 2, 1; 2014 QH<sub>277</sub> \*, 7, 2, 1; 2014 QJ<sub>277</sub> \*, 8, 2, 1; 2014 QK<sub>277</sub> \*, 7, 2, 1; 2014 QL<sub>277</sub> \*, 8, 2, 1; 2014 QM<sub>277</sub> \*, 8, 2, 1; 2014 QN<sub>277</sub> \*, 32, 8, 501; 2014 QO<sub>277</sub> \*, 8, 2, 1; 2014 QP<sub>277</sub> \*, 7, 2, 1; 2014 QQ<sub>277</sub> \*, 7, 2, 1; 2014 QR<sub>277</sub> \*, 8, 2, 1; 2014 QS<sub>277</sub> \*, 7, 2, 1; 2014 QT<sub>277</sub> \*, 7, 2, 1; 2014 QU<sub>277</sub> \*, 8, 2, 1; 2014 QV<sub>277</sub> \*, 8, 2, 1; 2014 QW<sub>277</sub> \*, 8, 2, 1; 2014 QX<sub>277</sub> \*, 18, 5, 60; 2014 QY<sub>277</sub> \*, 6, 2, 1; 2014 QZ<sub>277</sub> \*, 8, 2, 1; 2014 QA<sub>278</sub> \*, 7, 2, 1; 2014 QB<sub>278</sub> \*, 8, 2, 1; 2014 QC<sub>278</sub> \*, 8, 2, 1; 2014 QD<sub>278</sub> \*, 7, 2, 1; 2014 QE<sub>278</sub> \*, 7, 2, 1; 2014 QF<sub>278</sub> \*, 7, 2, 1; 2014 QG<sub>278</sub> \*, 6, 2, 1; 2014 QH<sub>278</sub> \*, 7, 2, 1; 2014 QJ<sub>278</sub> \*, 8, 2, 1; 2014 QK<sub>278</sub> \*, 7, 2, 1; 2014 QL<sub>278</sub> \*, 6, 2, 1; 2014 QM<sub>278</sub> \*, 6, 2, 1; 2014 QN<sub>278</sub> \*, 6, 2, 1; 2014 QO<sub>278</sub> \*, 6, 2, 1; 2014 QP<sub>278</sub> \*, 7, 2, 1; 2014 QQ<sub>278</sub> \*, 8, 2, 1; 2014 QR<sub>278</sub> \*, 8, 2, 1; 2014 QS<sub>278</sub> \*, 7, 2, 1; 2014 QT<sub>278</sub> \*, 7, 2, 1; 2014 QU<sub>278</sub> \*, 8, 2, 1; 2014 QV<sub>278</sub> \*, 8, 2, 1; 2014 QW<sub>278</sub> \*, 8, 2, 1; 2014 QX<sub>278</sub> \*, 4, 2, 1; 2014 QY<sub>278</sub> \*, 7, 2, 1; 2014 QZ<sub>278</sub> \*, 5, 2, 1; 2014 QA<sub>279</sub> \*, 8, 2, 1; 2014 QB<sub>279</sub> \*, 8, 2, 1; 2014 QC<sub>279</sub> \*, 8, 2, 1; 2014 QD<sub>279</sub> \*, 8, 2, 1; 2014 QE<sub>279</sub> \*, 7, 2, 1; 2014 QF<sub>279</sub> \*, 6, 2, 1; 2014 QG<sub>279</sub> \*, 7, 2, 1; 2014 QH<sub>279</sub> \*, 8, 2, 1; 2014 QJ<sub>279</sub> \*, 8, 2, 1; 2014 QK<sub>279</sub> \*, 7, 2, 1; 2014 QL<sub>279</sub> \*, 7, 2, 1; 2014 QM<sub>279</sub> \*, 7, 2, 1; 2014 QN<sub>279</sub> \*, 7, 2, 1; 2014 QO<sub>279</sub> \*, 7, 2, 1; 2014 QP<sub>279</sub> \*, 8, 2, 1; 2014 QQ<sub>279</sub> \*, 8, 2, 1; 2014 QR<sub>279</sub> \*, 8, 2, 1; 2014 QS<sub>279</sub> \*, 7, 2, 1; 2014 QT<sub>279</sub> \*, 7, 2, 1; 2014 QU<sub>279</sub> \*, 7, 2, 1; 2014 QV<sub>279</sub> \*, 10, 3, 3; 2014 QW<sub>279</sub> \*, 8, 2, 1; 2014 QX<sub>279</sub> \*, 7, 2, 1; 2014 QY<sub>279</sub> \*, 6, 2, 1; 2014 QZ<sub>279</sub> \*, 7, 2, 1; 2014 QA<sub>280</sub> \*, 8, 2, 1; 2014 QB<sub>280</sub> \*, 16, 4, 12; 2014 QC<sub>280</sub> \*, 7, 2, 1; 2014 QD<sub>280</sub> \*, 26, 6, 30; 2014 QE<sub>280</sub> \*, 22, 6, 59; 2014 QF<sub>280</sub> \*, 10, 3, 3; 2014 QG<sub>280</sub> \*, 6, 2, 1; 2014 QH<sub>280</sub> \*, 7, 2, 1; 2014 QJ<sub>280</sub> \*, 7, 2, 1; 2014 QK<sub>280</sub> \*, 6, 2, 1; 2014 QL<sub>280</sub> \*, 20, 6, 30; 2014 QM<sub>280</sub> \*, 6, 2, 1; 2014 QN<sub>280</sub> \*, 7, 2, 1; 2014 QO<sub>280</sub> \*, 10, 3, 3; 2014 QP<sub>280</sub> \*, 5, 2, 1; 2014 QQ<sub>280</sub> \*, 19, 5, 30; 2014 QR<sub>280</sub> \*, 7, 2, 1; 2014 QS<sub>280</sub> \*, 6, 2, 1; 2014 QT<sub>280</sub> \*, 7, 2, 1; 2014 QU<sub>280</sub> \*, 6, 2, 1; 2014 QV<sub>280</sub> \*, 6, 2, 1; 2014 QW<sub>280</sub> \*, 6, 2, 1; 2014 QX<sub>280</sub> \*, 6, 2, 1; 2014 QY<sub>280</sub> \*, 7, 2, 1; 2014 QZ<sub>280</sub> \*, 5, 2, 1; 2014 QA<sub>281</sub> \*, 6, 2, 1; 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2014 QJ<sub>283</sub> \*, 6, 2, 1; 2014 QK<sub>283</sub> \*, 13, 3, 8; 2014 QL<sub>283</sub> \*, 12, 3, 8; 2014 QM<sub>283</sub> \*, 7, 2, 1; 2014 QN<sub>283</sub> \*, 10, 3, 8; 2014 QO<sub>283</sub> \*, 11, 3, 8; 2014 QP<sub>283</sub> \*, 10, 3, 8; 2014 QQ<sub>283</sub> \*, 8, 2, 1; 2014 QR<sub>283</sub> \*, 12, 3, 8; 2014 QS<sub>283</sub> \*, 11, 3, 8; 2014 QT<sub>283</sub> \*, 8, 2, 1; 2014 QU<sub>283</sub> \*, 8, 2, 1; 2014 QV<sub>283</sub> \*, 7, 2, 1; 2014 QW<sub>283</sub> \*, 12, 3, 8; 2014 QX<sub>283</sub> \*, 16, 3, 7; 2014 QY<sub>283</sub> \*, 7, 2, 1; 2014 QZ<sub>283</sub> \*, 8, 2, 1; 2014 QA<sub>284</sub> \*, 7, 2, 1; 2014 QB<sub>284</sub> \*, 11, 3, 8; 2014 QC<sub>284</sub> \*, 8, 2, 1; 2014 QD<sub>284</sub> \*, 8, 2, 1; 2014 QE<sub>284</sub> \*, 7, 2, 1; 2014 QF<sub>284</sub> \*, 8, 2, 1; 2014 QG<sub>284</sub> \*, 8, 2, 1; 2014 QH<sub>284</sub> \*, 7, 2, 1; 2014 QJ<sub>284</sub> \*, 8, 2, 1; 2014 QK<sub>284</sub> \*, 8, 2, 1; 2014 QL<sub>284</sub> \*, 7, 2, 1; 2014 QM<sub>284</sub> \*, 16, 3, 7; 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7, 2, 1; 2014 QB<sub>286</sub> \*, 8, 2, 1; 2014 QC<sub>286</sub> \*, 8, 2, 1; 2014 QD<sub>286</sub> \*, 6, 2, 1; 2014 QE<sub>286</sub> \*, 8, 2, 1; 2014 QF<sub>286</sub> \*, 7, 2, 1; 2014 QG<sub>286</sub> \*, 8, 2, 1; 2014 QH<sub>286</sub> \*, 7, 2, 1; 2014 QJ<sub>286</sub> \*, 6, 2, 1; 2014 QK<sub>286</sub> \*, 8, 2, 1; 2014 QL<sub>286</sub> \*, 8, 2, 1; 2014 QM<sub>286</sub> \*, 7, 2, 1; 2014 QN<sub>286</sub> \*, 6, 2, 1; 2014 QO<sub>286</sub> \*, 5, 2, 1; 2014 QP<sub>286</sub> \*, 8, 2, 1; 2014 QQ<sub>286</sub> \*, 8, 2, 1; 2014 QR<sub>286</sub> \*, 8, 2, 1; 2014 QS<sub>286</sub> \*, 8, 2, 1; 2014 QT<sub>286</sub> \*, 8, 2, 1; 2014 QU<sub>286</sub> \*, 7, 2, 1; 2014 QV<sub>286</sub> \*, 10, 3, 7; 2014 QW<sub>286</sub> \*, 7, 2, 1; 2014 QX<sub>286</sub> \*, 12, 3, 7; 2014 QY<sub>286</sub> \*, 8, 2, 1; 2014 QZ<sub>286</sub> \*, 6, 2, 1; 2014 QA<sub>287</sub> \*, 5, 2, 1; 2014 QB<sub>287</sub> \*, 6, 2, 1; 2014 QC<sub>287</sub> \*, 6, 2, 1; 2014 QD<sub>287</sub> \*, 9, 3, 7; 2014 QE<sub>287</sub> \*, 7, 2, 1; 2014 QF<sub>287</sub> \*, 7, 2, 1; 2014 QG<sub>287</sub> \*, 7, 2, 1; 2014 QH<sub>287</sub> \*, 8, 2, 1; 2014 QJ<sub>287</sub> \*, 10, 3, 6; 2014 QK<sub>287</sub> \*, 8, 2, 1; 2014 QL<sub>287</sub> \*, 12, 4, 7; 2014 QM<sub>287</sub> \*, 7, 2, 1; 2014 QN<sub>287</sub> \*, 8, 2, 1; 2014 QO<sub>287</sub> \*, 8, 2, 1; 2014 QP<sub>287</sub> \*, 7, 2, 1; 2014 QR<sub>287</sub> \*, 8, 2, 1; 2014 QS<sub>287</sub> \*, 8, 2, 1; 2014 QT<sub>287</sub> \*, 8, 2, 1; 2014 QU<sub>287</sub> \*, 7, 2, 1; 2014 QV<sub>287</sub> \*, 8, 2, 1; 2014 QW<sub>287</sub> \*, 8, 2, 1; 2014 QX<sub>287</sub> \*, 6, 2, 1; 2014 QY<sub>287</sub> \*, 6, 2, 1; 2014 QZ<sub>287</sub> \*, 9, 3, 7; 2014 QA<sub>288</sub> \*, 7, 2, 1; 2014 QB<sub>288</sub> \*, 7, 2, 1; 2014 QC<sub>288</sub> \*, 8, 2, 1; 2014 QD<sub>288</sub> \*, 7, 2, 1; 2014 QE<sub>288</sub> \*, 5, 2, 1; 2014 QF<sub>288</sub> \*, 8, 2, 1; 2014 QG<sub>288</sub> \*, 8, 2, 1; 2014 QH<sub>288</sub> \*, 6, 2, 1; 2014 QJ<sub>288</sub> \*, 8, 2, 1; 2014 QK<sub>288</sub> \*, 8, 2, 1; 2014 QL<sub>288</sub> \*, 8, 2, 1; 2014 QM<sub>288</sub> \*, 6, 2, 1; 2014 QN<sub>288</sub> \*, 6, 2, 1; 2014 QO<sub>288</sub> \*, 7, 2, 1; 2014 QP<sub>288</sub> \*, 8, 2, 1; 2014 QQ<sub>288</sub> \*, 8, 2, 1; 2014 QR<sub>288</sub> \*, 6, 2, 1; 2014 QS<sub>288</sub> \*, 6, 2, 1; 2014 QT<sub>288</sub> \*, 7, 2, 1; 2014 QU<sub>288</sub> \*, 8, 2, 1; 2014 QV<sub>288</sub> \*, 9, 3, 8; 2014 QW<sub>288</sub> \*, 6, 2, 1; 2014 QX<sub>288</sub> \*, 6, 2, 1; 2014 QY<sub>288</sub> \*, 7, 2, 1; 2014 QZ<sub>288</sub> \*, 11, 3, 8; 2014 QA<sub>289</sub> \*, 7, 2, 1; 2014 QB<sub>289</sub> \*, 8, 2, 1; 2014 QC<sub>289</sub> \*, 7, 2, 1; 2014 QD<sub>289</sub> \*, 7, 2, 1; 2014 QE<sub>289</sub> \*, 11, 3, 8; 2014 QF<sub>289</sub> \*, 7, 2, 1; 2014 QG<sub>289</sub> \*, 7, 2, 1; 2014 QH<sub>289</sub> \*, 7, 2, 1; 2014 QJ<sub>289</sub> \*, 7, 2, 1; 2014 QK<sub>289</sub> \*, 7, 2, 1; 2014 QL<sub>289</sub> \*, 6, 2, 1; 2014 QM<sub>289</sub> \*, 6, 2, 1; 2014 QN<sub>289</sub> \*, 6, 2, 1; 2014 QO<sub>289</sub> \*, 6, 2, 1; 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2014 QT<sub>290</sub> \*, 7, 2, 1; 2014 QU<sub>290</sub> \*, 8, 2, 1; 2014 QV<sub>290</sub> \*, 8, 2, 1; 2014 QW<sub>290</sub> \*, 8, 2, 1; 2014 QX<sub>290</sub> \*, 7, 2, 1; 2014 QY<sub>290</sub> \*, 8, 2, 1; 2014 QZ<sub>290</sub> \*, 8, 2, 1; 2014 QA<sub>291</sub> \*, 11, 3, 3; 2014 QB<sub>291</sub> \*, 6, 2, 1; 2014 QC<sub>291</sub> \*, 8, 2, 1; 2014 QD<sub>291</sub> \*, 7, 2, 1; 2014 QE<sub>291</sub> \*, 7, 2, 1; 2014 QF<sub>291</sub> \*, 6, 2, 1; 2014 QG<sub>291</sub> \*, 6, 2, 1; 2014 QH<sub>291</sub> \*, 8, 2, 1; 2014 QJ<sub>291</sub> \*, 7, 2, 1; 2014 QK<sub>291</sub> \*, 8, 2, 1; 2014 QL<sub>291</sub> \*, 8, 2, 1; 2014 QM<sub>291</sub> \*, 8, 2, 1; 2014 QN<sub>291</sub> \*, 7, 2, 1; 2014 QO<sub>291</sub> \*, 7, 2, 1; 2014 QP<sub>291</sub> \*, 7, 2, 1; 2014 QQ<sub>291</sub> \*, 7, 2, 1; 2014 QR<sub>291</sub> \*, 7, 2, 1; 2014 QS<sub>291</sub> \*, 7, 2, 1; 2014 QT<sub>291</sub> \*, 8, 2, 1; 2014 QU<sub>291</sub> \*, 8, 2, 1; 2014 QV<sub>291</sub> \*, 8, 2, 1; 2014 QW<sub>291</sub> \*, 7, 2, 1; 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2014 QC<sub>293</sub> \*, 8, 2, 1; 2014 QD<sub>293</sub> \*, 7, 2, 1; 2014 QE<sub>293</sub> \*, 8, 2, 1; 2014 QF<sub>293</sub> \*, 8, 2, 1; 2014 QG<sub>293</sub> \*, 8, 2, 1; 2014 QH<sub>293</sub> \*, 6, 2, 1; 2014 QJ<sub>293</sub> \*, 7, 2, 1; 2014 QK<sub>293</sub> \*, 7, 2, 1; 2014 QL<sub>293</sub> \*, 7, 2, 1; 2014 QM<sub>293</sub> \*, 7, 2, 1; 2014 QN<sub>293</sub> \*, 7, 2, 1; 2014 QO<sub>293</sub> \*, 8, 2, 1; 2014 QP<sub>293</sub> \*, 8, 2, 1; 2014 QQ<sub>293</sub> \*, 8, 2, 1; 2014 QR<sub>293</sub> \*, 8, 2, 1; 2014 QS<sub>293</sub> \*, 8, 2, 1; 2014 QT<sub>293</sub> \*, 7, 2, 1; 2014 QU<sub>293</sub> \*, 8, 2, 1; 2014 QV<sub>293</sub> \*, 8, 2, 1; 2014 QW<sub>293</sub> \*, 16, 4, 28; 2014 QX<sub>293</sub> \*, 8, 2, 1; 2014 QY<sub>293</sub> \*, 7, 2, 1; 2014 QZ<sub>293</sub> \*, 7, 2, 1; 2014 QA<sub>294</sub> \*, 8, 2, 1; 2014 QB<sub>294</sub> \*, 6, 2, 1; 2014 QC<sub>294</sub> \*, 8, 2, 1; 2014 QD<sub>294</sub> \*, 8, 2, 1; 2014 QE<sub>294</sub> \*, 8, 2, 1; 2014 QF<sub>294</sub> \*, 8, 2, 1; 2014 QG<sub>294</sub> \*, 8, 2, 1; 2014 Q



1, 0; 2014 QA<sub>297</sub> \*, 12, 3, 29; 2014 QB<sub>297</sub> \*, 22, 4, 51; 2014 QC<sub>297</sub> \*, 21, 5, 54; 2014 QF<sub>297</sub>, 2, 1, 0; 2014 QG<sub>297</sub>, 8, 2, 11; 2014 QH<sub>297</sub>, 11, 3, 38; 2014 QJ<sub>297</sub>, 3, 1, 0; 2014 QL<sub>297</sub>, 7, 2, 63; 2014 QN<sub>297</sub>, 14, 4, 68; 2014 QO<sub>297</sub>, 8, 2, 49; 2014 QP<sub>297</sub>, 23, 5, 63; 2014 QR<sub>297</sub> \*, 6, 2, 7; 2014 QS<sub>297</sub> \*, 7, 2, 7; 2014 QT<sub>297</sub> \*, 7, 2, 7; 2014 QU<sub>297</sub> \*, 6, 2, 7; 2014 QV<sub>297</sub> \*, 6, 2, 7; 2014 QW<sub>297</sub> \*, 7, 2, 7; 2014 QX<sub>297</sub> \*, 7, 2, 7; 2014 QY<sub>297</sub> \*, 8, 2, 7; 2014 QZ<sub>297</sub> \*, 7, 2, 7; 2014 QA<sub>298</sub> \*, 8, 2, 7; 2014 QB<sub>298</sub> \*, 8, 2, 7; 2014 QC<sub>298</sub> \*, 14, 3, 7; 2014 QD<sub>298</sub> \*, 15, 4, 24; 2014 QE<sub>298</sub> \*, 12, 2, 7; 2014 QF<sub>298</sub> \*, 7, 2, 7; 2014 QG<sub>298</sub> \*, 25, 6, 33; 2014 QH<sub>298</sub> \*, 6, 2, 7; 2014 QJ<sub>298</sub> \*, 12, 2, 7; 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3; 2014 QR320 \*, 7, 2, 3; 2014 QS320 \*, 6, 2, 2; 2014 QT320 \*, 5, 2, 3; 2014 QU320 \*, 6, 2, 3; 2014 QV320 \*, 8, 2, 3; 2014 QW320 \*, 3, 1, 0; 2014 QX320 \*, 7, 2, 2; 2014 QY320 \*, 4, 1, 0; 2014 QZ320 \*, 4, 1, 0; 2014 QA321 \*, 7, 2, 2; 2014 QB321 \*, 8, 2, 2; 2014 QC321 \*, 4, 1, 0; 2014 QD321 \*, 13, 4, 34; 2014 QE321 \*, 12, 3, 8; 2014 QF321 \*, 3, 1, 0; 2014 QG321 \*, 7, 2, 2; 2014 QH321 \*, 8, 2, 2; 2014 QI321 \*, 7, 2, 2; 2014 QJ321 \*, 4, 1, 0; 2014 QK321 \*, 4, 1, 0; 2014 QL321 \*, 7, 2, 2; 2014 QM321 \*, 7, 2, 2; 2014 QN321 \*, 4, 1, 0; 2014 QO321 \*, 8, 2, 2; 2014 QP321 \*, 6, 2, 2; 2014 QQ321 \*, 8, 2, 2; 2014 QR321 \*, 6, 2, 2; 2014 QS321 \*, 7, 2, 2; 2014 QT321 \*, 7, 2, 2; 2014 QU321 \*, 10, 3, 34; 2014 QV321 \*, 7, 2, 2; 2014 QW321 \*, 8, 2, 2; 2014 QX321 \*, 10, 3, 5; 2014 QY321 \*, 6, 2, 2; 2014 QZ321 \*, 6, 2, 2; 2014 QA322 \*, 6, 2, 2; 2014 QB322 \*, 3, 1, 0; 2014 QC322 \*, 4, 1, 0; 2014 QD322 \*, 12, 2, 2; 2014 QE322 \*, 7, 2, 2; 2014 QF322 \*, 7, 2, 2; 2014 QG322 \*, 7, 2, 2; 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1, 0; (404338), 4, 1, 0; (404340), 17, 5, 5; (404341), 15, 3, 3; (404342), 3, 1, 0; (404343), 3, 1, 0; (404344), 3, 1, 0; (404348), 7, 2, 13; (404349), 7, 2, 13; (404350), 4, 1, 0; (404351), 7, 2, 1; (404352), 4, 1, 0; (404354), 3, 1, 0; (404355), 5, 2, 3; (404358), 11, 3, 3; (404359), 4, 1, 0; (404360), 3, 1, 0; (404361), 11, 3, 13; (404362), 14, 3, 11; (404365), 4, 1, 0; (404366), 4, 1, 0; (404367), 6, 2, 13; (404369), 3, 1, 0; (404370), 4, 1, 0; (404371), 4, 1, 0; (404373), 7, 2, 12; (404374), 8, 2, 1; (404375), 7, 2, 13; (404377), 3, 1, 0; (404379), 3, 1, 0; (404380), 8, 2, 1; (404383), 13, 4, 11; (404384), 4, 1, 0; (404387), 3, 1, 0; (404388), 6, 2, 10; (404389), 3, 1, 0; (404390), 4, 1, 0; (404391), 4, 1, 0; (404392), 3, 1, 0; (404393), 3, 1, 0; (404394), 12, 3, 18; (404396), 3, 1, 0; (404397), 11, 2, 1; (404398), 3, 1, 0; (404400), 4, 1, 0; (404402), 3, 1, 0; (404403), 3, 1, 0; (404404), 7, 2, 11; (404405), 4, 1, 0; (404409), 4, 1, 0; (404411), 4, 1, 0; (404412), 2, 1, 0; (404413), 3, 1, 0; (404414), 4, 1, 0; (404416), 5, 1, 0; (404419), 6, 2, 4; (404420), 4, 1, 0; (404421), 7, 2, 13; (404422), 8, 2, 9; (404423), 16, 3, 10; (404424), 4, 1, 0; (404426), 2, 1, 0; (404427), 9, 3, 3; (404430), 4, 1, 0; (404431), 3, 1, 0; (404432), 4, 1, 0; (404433), 3, 1, 0; (404435), 6, 1, 0; (404436), 7, 2, 1; (404438), 10, 3, 13; (404440), 3, 1, 0; (404442), 8, 2, 1; (404443), 4, 1, 0; (404444), 4, 1, 0; (404445), 15, 4, 12; (404446), 7, 2, 1; (404447), 3, 1, 0; (404448), 4, 1, 0; (404450), 6, 2, 2; (404451), 6, 2, 3; (404455), 7, 2, 13; (404456), 6, 2, 8; (404457), 3, 1, 0; (404458), 4, 1, 0; (404459), 7, 2, 8; (404460), 4, 1, 0; (404461), 6, 2, 7; (404462), 7, 2, 13; (404463), 3, 1, 0; (404464), 4, 1, 0; (404465), 2, 1, 0; (404466), 11, 3, 9; (404467), 4, 1, 0; (404468), 4, 1, 0; (404471), 4, 1, 0; (404472), 11, 3, 11; (404474), 4, 1, 0; (404475), 4, 1, 0; (404476), 3, 1, 0; (404478), 2, 1, 0; (404479), 6, 2, 11; (404480), 6, 2, 1; (404481), 3, 1, 0; (404482), 4, 1, 0; (404483), 10, 3, 7; (404484), 10, 3, 11; (404485), 5, 2, 1; (404486), 11, 2, 1; (404487), 3, 1, 0; (404488), 4, 1, 0; (404490), 11, 3, 10; (404491), 6, 2, 1; (404492), 4, 1, 0; (404493), 11, 3, 11; (404494), 7, 2, 13; (404496), 7, 2, 1; (404498), 3, 1, 0; (404499), 10, 3, 5; (404500), 6, 2, 1; (404501), 7, 2, 2; (404502), 11, 3, 11; (404503), 15, 3, 11; (404504), 4, 1, 0; (404506), 4, 1, 0; (404507), 7, 2, 1; (404508), 8, 2, 1; (404509), 8, 2, 13; (404510), 11, 3, 6; (404512), 8, 3, 10; (404513), 3, 1, 0; (404515), 4, 1, 0; (404519), 6, 2, 11; (404523), 3, 1, 0; (404525), 16, 4, 13; (404526), 9, 3, 8; (404527), 2, 1, 0; (404528), 11, 2, 1; (404529), 7, 2, 9; (404530), 7, 2, 13; (404531), 11, 3, 13; (404532), 6, 2, 1; (404533), 7, 1, 0; (404534), 4, 1, 0; (404537), 4, 1, 0; (404538), 11, 3, 10; (404540), 4, 1, 0; (404541), 4, 1, 0; (404543), 7, 2, 9; (404545), 16, 4, 7; (404546), 4, 1, 0; (404547), 8, 2, 1; (404548), 13, 3, 5; (404549), 4, 1, 0; (404550), 8, 2, 1; (404552), 4, 1, 0; (404553), 3, 1, 0; (404554), 8, 2, 2; (404556), 4, 1, 0; (404557), 3, 1, 0; (404558), 7, 2, 11; (404559), 12, 2, 13; (404560), 4, 1, 0; (404561), 4, 1, 0; (404562), 4, 1, 0; (404564), 8, 2, 1; (404566), 4, 1, 0; (404567), 8, 2, 1; (404568), 7, 2, 13; (404569), 3, 1, 0; (404570), 7, 2, 13; (404571), 6, 2, 10; (404572), 10, 3, 3; (404573), 6, 2, 2; (404575), 3, 1, 0; (404576), 8, 2, 5; (404579), 3, 1, 0; (404580), 4, 1, 0; (404581), 11, 3, 11; (404582), 3, 1, 0; (404583), 11, 3, 3; (404585), 7, 2, 3; (404586), 4, 1, 0; (404587), 8, 2, 13; (404589), 10, 3, 12; (404590), 3, 1, 0; (404591), 6, 1, 0; (404592), 7, 2, 3; (404594), 4, 1, 0; (404678), 8, 1, 0; (404723), 3, 1, 0; (404736), 4, 1, 0; (404768), 4, 1, 0; (404770), 3, 1, 0; (404771), 3, 1, 0; (404776), 4, 1, 0; (404786), 3, 1, 0; (404802), 7, 2, 1; (404803), 3, 1, 0; (404838), 11, 3, 2; (404843), 4, 1, 0; (404859), 7, 2, 1; (404861), 8, 2, 1; (404862), 3, 1, 0; (404863), 7, 2, 1; (404870), 3, 1, 0; (404872), 4, 1, 0; (404875), 4, 1, 0; (404876), 3, 1, 0; (404877), 3, 1, 0; (404878), 15, 3, 2; (404880), 3, 1, 0; (404881), 4, 1, 0; (404883), 4, 1, 0; (404885), 8, 2, 1; (404888), 4, 1, 0; (404890), 5, 2, 8; (404892), 6, 2, 1; (404895), 4, 1, 0; (404899), 6, 2, 1; (404902), 8, 2, 1; (404903), 3, 1, 0; (404904), 3, 1, 0; (404905), 4, 1, 0; (404907), 4, 1, 0; (404908), 6, 2, 1; (404909), 6, 2, 1; (404910), 7, 2, 1; (404916), 3, 1, 0; (404918), 4, 1, 0; (404919), 7, 2, 11; (404920), 8, 2, 1; (404922), 5, 2, 1; (404926), 10, 3, 11; (404927), 7, 2, 1; (404928), 4, 1, 0; (404930), 3, 1, 0; (404933), 4, 1, 0; (404934), 12, 3, 11; (404936), 4, 1, 0; (404937), 3, 1, 0; (404938), 12, 3, 2; (404939), 3, 1, 0; (404943), 8, 2, 3; [625917, 93177, 10204\*, 2010/12/04–2014/09/06]

### F65 Haleakala-Faulkes Telescope North

T. Lister, LCOGT, 6740 Cortona Drive Suite 102, Goleta, CA 93117, U.S.A. (14)

Observers T. Lister, P. Miller, E. Gomez, R. Holmes, L. Buzzi, S. Foglia,  
T. Vorobjov, T. Linder

2.0-m  $f/10$  Ritchey-Chrétien + CCD

PPMXL

2014 PC<sub>68</sub>, 6, 1, 0; [6, 1, 0\*, 2014/08/12]

### G32 Elena Remote Observatory, San Pedro de Atacama

A. Oreshko, 123154, Karamishevskaya nab. 60, 1, 31, Moscow, Russia  
[elenaatacama@gmail.com]

0.4-m  $f/8.0$  Ritchey-Chrétien + CCD

UCAC-3

2003 SU<sub>132</sub>, 4, 1, 0; 2003 SY<sub>285</sub>, 4, 1, 0; 2004 VX<sub>53</sub>, 6, 1, 0; 2005 UR<sub>66</sub>, 5, 1, 0; 2005 UK<sub>133</sub>, 7, 2, 1; 2006 QY<sub>19</sub>, 4, 1, 0; 2006 QA<sub>125</sub>, 3, 1, 0; 2006 SV<sub>346</sub>, 5, 1, 0; 2007 TN<sub>179</sub>, 5, 1, 0; 2009 KO<sub>2</sub>, 3, 1, 0; 2009 SH<sub>259</sub>, 3, 1, 0; 2009 SX<sub>335</sub>, 7, 2, 2; 2010 HY<sub>111</sub>, 3, 1, 0; 2010 RA<sub>182</sub>, 9, 3, 2; 2011 BA<sub>25</sub>, 4, 1, 0; 2013 BA, 3, 1, 0; 2013 CJ<sub>47</sub>, 4, 1, 0; 2013 GG<sub>9</sub>, 4, 1, 0; 2013 GC<sub>85</sub>, 4, 1, 0;

2014 LY<sub>26</sub>, 10, 2, 4; 2014 MZ<sub>39</sub>, 3, 1, 0; 2014 NW<sub>35</sub>, 9, 2, 2; 2014 NY<sub>54</sub>, 5, 1, 0; 2014 NE<sub>65</sub>, 2, 1, 0; 2014 OC<sub>6</sub>, 3, 1, 0; 2014 ON<sub>110</sub>, 4, 1, 0; 2014 OQ<sub>193</sub>, 3, 1, 0; 2014 OW<sub>195</sub>, 5, 1, 0; 2014 OB<sub>267</sub>, 7, 2, 1; 2014 OT<sub>268</sub>, 6, 2, 1; 2014 ON<sub>381</sub>, 4, 1, 0; 2014 PD, 6, 2, 1; 2014 PP, 3, 1, 0; 2014 PQ<sub>66</sub>, 4, 1, 0; 2014 QT \*, 14, 4, 3; 2014 QW \*, 10, 3, 17; 2014 QN<sub>38</sub> \*, 8, 2, 2; 2014 QV<sub>40</sub> \*, 11, 3, 15; 2014 QQ<sub>297</sub> \*, 6, 2, 8; 2014 QA<sub>348</sub> \*, 8, 2, 1; 2014 QB<sub>348</sub> \*, 6, 2, 1; 2014 QC<sub>348</sub> \*, 9, 3, 2; 2014 QD<sub>348</sub> \*, 7, 2, 1; 2014 QE<sub>348</sub> \*, 7, 2, 1; 2014 QF<sub>348</sub> \*, 8, 2, 1; 2014 QB<sub>382</sub> \*, 10, 3, 3; 2014 QH<sub>382</sub> \*, 8, 2, 1; 2014 QJ<sub>382</sub> \*, 7, 2, 1; 2014 QK<sub>382</sub> \*, 6, 2, 1; 2014 QX<sub>382</sub> \*, 9, 3, 9; 2014 QY<sub>382</sub> \*, 6, 2, 1; 2014 QZ<sub>406</sub> \*, 8, 2, 2; 2014 QQ<sub>425</sub> \*, 8, 2, 1; 2014 QV<sub>425</sub> \*, 6, 2, 1; 2014 RW<sub>1</sub> \*, 13, 3, 4; 2014 RW<sub>4</sub> \*, 6, 2, 1; (1013), 3, 1, 0; (3698), 10, 2, 1; (8698), 5, 1, 0; (13330), 16, 3, 2; (13671), 5, 1, 0; (16955), 7, 1, 0; (17705), 9, 2, 1; (18196), 5, 1, 0; (23064), 10, 2, 1; (24044), 5, 1, 0; (25665), 4, 1, 0; (26622), 10, 2, 2; (28539), 5, 1, 0; (28774), 8, 1, 0; (29241), 5, 1, 0; (32299), 5, 1, 0; (33634), 12, 2, 1; (33947), 5, 1, 0; (36128), 13, 2, 2; (36210), 5, 1, 0; (40117), 16, 3, 2; (42092), 4, 1, 0; (42185), 5, 1, 0; (42339), 3, 1, 0; (42739), 21, 4, 3; (45559), 5, 1, 0; (46277), 13, 2, 2; (50679), 10, 2, 1; (51729), 5, 1, 0; (53145), 5, 1, 0; (54448), 5, 1, 0; (55800), 12, 2, 1; (56766), 4, 1, 0; (59075), 10, 2, 1; (59207), 5, 1, 0; (59632), 5, 1, 0; (61063), 13, 2, 1; (61419), 5, 1, 0; (67194), 10, 2, 1; (70940), 5, 1, 0; (71313), 4, 1, 0; (71452), 5, 1, 0; (72941), 5, 1, 0; (76330), 5, 1, 0; (76514), 5, 1, 0; (83377), 5, 1, 0; (83396), 5, 1, 0; (84846), 13, 3, 3; (88730), 5, 1, 0; (89213), 4, 1, 0; (91186), 21, 4, 3; (94223), 4, 1, 0; (96698), 5, 1, 0; (97310), 13, 2, 1; (97383), 5, 1, 0; (104196), 5, 1, 0; (105929), 5, 1, 0; (107036), 4, 1, 0; (109683), 5, 1, 0; (109792), 4, 1, 0; (110272), 5, 1, 0; (116140), 5, 1, 0; (117339), 14, 3, 2; (118865), 3, 1, 0; (119794), 5, 1, 0; (121035), 5, 1, 0; (123866), 4, 1, 0; (127319), 5, 1, 0; (128119), 5, 1, 0; (130620), 15, 3, 3; (132049), 4, 1, 0; (133163), 5, 1, 0; (136429), 4, 1, 0; (138133), 5, 1, 0; (157453), 4, 1, 0; (158572), 3, 1, 0; (162518), 5, 1, 0; (162660), 9, 2, 1; (170306), 12, 2, 1; (173331), 7, 1, 0; (177214), 13, 2, 2; (179843), 5, 1, 0; (186219), 10, 2, 1; (187272), 5, 1, 0; (193886), 5, 1, 0; (196768), 13, 2, 2; (203372), 3, 1, 0; (213907), 5, 1, 0; (214787), 4, 1, 0; (220702), 16, 3, 9; (223431), 4, 1, 0; (233441), 7, 2, 3; (242817), 8, 2, 3; (245127), 6, 1, 0; (248831), 5, 1, 0; (250455), 4, 1, 0; (254542), 5, 1, 0; (256359), 14, 3, 2; (261027), 14, 3, 2; (266861), 5, 1, 0; (288686), 5, 1, 0; (294116), 4, 1, 0; (297267), 5, 1, 0; (310911), 14, 3, 2; (325722), 2, 1, 0; (331356), 5, 1, 0; (348015), 5, 1, 0; (356132), 4, 1, 0; (357040), 10, 2, 1; (357374), 5, 1, 0; (360277), 5, 1, 0; (403497), 5, 1, 0; (404588), 5, 1, 0; [1126, 169, 22\*, 2014/06/27–2014/09/06]

### G34 Oberfrauendorf

T. Felber, Oberfrauendorf, An der Lockwitz 52 Oberfrauendorf, Germany

[tobi.23@gmx.de]

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

UCAC-4

(276049), 3, 1, 0; (285944), 3, 1, 0; [6, 2, 0\*, 2014/08/29]

### G36 Calar Alto-CASADO

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

Observers S. Mottola, S. Hellmich

1.23-m  $f/8$  reflector + CCD

PPMXL

2011 YJ<sub>11</sub>, 4, 1, 0; 2012 BY<sub>137</sub>, 5, 1, 0; 2014 JY<sub>1</sub>, 4, 1, 0; 2014 MP<sub>25</sub>, 17, 2, 3; 2014 OD<sub>3</sub>, 18, 2, 1; 2014 PL<sub>52</sub>, 4, 1, 0; 2014 QM<sub>116</sub>, 10, 1, 0; 2014 QT<sub>116</sub>, 9, 1, 0; 2014 QB<sub>366</sub> \*, 5, 1, 0; (2060), 3, 1, 0; (16635), 9, 3, 2; (32917), 3, 1, 0; (61271), 3, 1, 0; (105813), 3, 1, 0; (117445), 3, 1, 0; (137838), 3, 1, 0; (151855), 3, 1, 0; (161550), 3, 1, 0; (165549), 3, 1, 0; (255938), 3, 1, 0; (328242), 3, 1, 0; (362453), 3, 1, 0; (363272), 3, 1, 0; [124, 23, 1\*, 2011/12/20–2014/08/30]

### G37 Lowell Observatory-Discovery Channel Telescope

L. H. Wasserman, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff  
AZ 86001, U.S.A. [lhw@lowell.edu]

Observers P. Massey, A. Venetiu, M. Sweatn

Measurer L. H. Wasserman

4.3-m Lowell Observatory Discovery Channel telescope + CCD

USNO-B1.0

2010 PK<sub>66</sub>, 2, 1, 0; 2014 OF<sub>240</sub>, 2, 1, 0; [4, 2, 0\*, 2013/05/14–2014/06/28]

### G40 Slooh.com Canary Islands Observatory

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



D. G. Cranford Jr, 2657 Dumbarton Rd., Fayetteville, NC 28306, U.S.A.

[doncranford@gmail.com] (4)

Observers D. G. Cranford Jr, A. J. Evans

0.5-m  $f/6.8$  reflector + CCD, 0.35-m  $f/11$  Schmidt-Cassegrain + CCD

UCAC-4, PPMXL

{3} 2006 QY<sub>110</sub>, 4, 2, 1; 2008 DS<sub>83</sub>, 6, 2, 2; 2014 PA<sub>59</sub>, 3, 1, 0; (106589), 3, 1, 0; (250458), 4, 2, 1; (276049), 6, 2, 1; [26, 6, 0\*, 2014/07/04–2014/09/01]

{4} 2001 QL<sub>107</sub>, 3, 1, 0; 2014 NA<sub>64</sub>, 8, 2, 2; 2014 OX<sub>299</sub>, 9, 3, 2; 2014 PG<sub>51</sub>, 16, 4, 9; 2014 PL<sub>51</sub>, 4, 1, 0; 2014 PS<sub>59</sub>, 3, 1, 0; 2014 RC, 5, 1, 0; (23922), 5, 1, 0; (26574), 5, 1, 0; (44307), 3, 1, 0; (79937), 3, 1, 0; [64, 11, 0\*, 2014/08/08–2014/09/05]

### G44 Observatorio Longa Vista, Sao Paulo

A. C. B. Oliveira, Rua Grecia 197, Sao Paulo, SP 01450-010, Brazil

[cal@longavista.com.br]

0.40-m Ritchey-Chrétien + CCD

UCAC-4

2014 PT<sub>59</sub>, 3, 1, 0; 2014 QA<sub>33</sub>, 3, 1, 0; (399), 3, 1, 0; (1541), 3, 1, 0; (2446), 3, 1, 0; (6910), 3, 1, 0; (7898), 3, 1, 0; (12606), 3, 1, 0; (14720), 3, 1, 0; (16726), 3, 1, 0; (20025), 3, 1, 0; (21403), 3, 1, 0; (31136), 3, 1, 0; (33979), 3, 1, 0; (34998), 3, 1, 0; [45, 15, 0\*, 2014/08/15–2014/08/24]

### G45 Space Surveillance Telescope, Atom Site

M. Harvanek, MIT Lincoln Laboratory ETS Field Site, P.O. BOX 1707,

Stallion Range Center, Bldg. 34560, Socorro NM 87801, U.S.A.

[michael.harvanek@ll.mit.edu]

Observers L. Banks, M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige,

W. Robertson, G. Spitz

Measurers G. Brown, C. Byun, M. Cornell, M. Goldberg, A. Klein, J. Parham,

J. Ruprecht, G. Ushomirsky, H. Viggh, D. Woods

3.5-m  $f/1$  reflector + CCD

SSTRC4

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### G49 Minnetonka

D. Brandt, 2624 Cedar Crest Rd W, Minnetonka, Minnesota 55305, U.S.A.

[brandtdr@earthlink.net]

0.28-m  $f/2$  reflector + CCD

PPMXL

(246), 2, 1, 0; [2, 1, 0\*, 2014/08/13]

### G68 Sierra Stars Observatory, Markleeville

R. Williams, 115 Chambers Lane, Markleeville, CA 96120, U.S.A.

[richw@sierrastars.com]

Observer R. Dymock

0.61-m  $f/10$  reflector + CCD

UCAC-4

(60558), 10, 2, 3; [10, 1, 0\*, 2014/08/18-2014/08/21]

### G84 Mount Lemmon SkyCenter

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

0.6-m  $f/7.8$  reflector + CCD

UCAC-2

2014 OP<sub>46</sub>, 4, 1, 0; [4, 1, 0\*, 2009/09/17]

### G92 Jarnac Observatory, Vail

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

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

0.64-m  $f/7.2$  Ritchey-Chrétien + CCD

USNO-A2.0

2005 TS<sub>108</sub>, 3, 1, 0; 2013 EN<sub>60</sub>, 3, 1, 0; 2014 HQ<sub>15</sub>, 3, 1, 0; 2014 ML, 3, 1, 0; 2014 NF<sub>20</sub>, 3, 1, 0; 2014 OL<sub>72</sub>, 3, 1, 0; [18, 6, 0\*, 2006/09/16-2008/03/31]

### 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, A. D. Grauer, E. J. Christensen

Measurers E. J. Christensen, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson,

R. A. Kowalski, S. M. Larson, R. J. Sanders, F. C. Shelly

1.5-m reflector + CCD

UCAC-4

1981 EM<sub>32</sub>, 4, 1, 0; 1995 SW<sub>20</sub>, 12, 3, 1919; 1995 UD<sub>39</sub>, 8, 2, 2; 1995 UL<sub>40</sub>, 12, 3, 1503; 1996 TG<sub>4</sub>, 4, 1, 0; 1997 SK<sub>11</sub>, 4, 1, 0; 1998 BU<sub>16</sub>, 16, 4, 2040; 1998 QO<sub>58</sub>, 8, 2, 36; 1998 RS<sub>13</sub>, 3, 1, 0; 1998 RM<sub>56</sub>, 4, 1, 0; 1998 SL<sub>40</sub>, 4, 1, 0; 1998 SE<sub>150</sub>, 4, 1, 0; 1999 FU<sub>81</sub>, 12, 3, 2563; 1999 JD<sub>111</sub>, 15, 4, 1973; 1999 TE<sub>43</sub>, 4, 1, 0; 1999 TB<sub>183</sub>, 3, 1, 0; 1999 TY<sub>214</sub>, 4, 1, 0; 1999 TJ<sub>264</sub>, 4, 1, 0; 1999 UU<sub>55</sub>, 4, 1, 0; 1999 VT<sub>107</sub>, 4, 1, 0; 1999 VQ<sub>116</sub>, 4, 1, 0; 1999 VN<sub>140</sub>, 4, 1, 0; 1999 VF<sub>210</sub>, 4, 1, 0; 1999 VL<sub>231</sub>, 4, 1, 0; 1999 XG<sub>255</sub>, 4, 1, 0; 1999 XO<sub>260</sub>, 4, 1, 0; 2000 AJ<sub>220</sub>, 4, 1, 0; 2000 CL<sub>73</sub>, 4, 1, 0; 2000 DB<sub>111</sub>, 4, 1, 0; 2000 EU<sub>4</sub>, 4, 1, 0; 2000 EK<sub>99</sub>, 4, 1, 0; 2000 GR<sub>132</sub>, 4, 1, 0; 2000 RA<sub>85</sub>, 4, 1, 0; 2000 SG<sub>7</sub>, 4, 1, 0; 2000 SZ<sub>48</sub>, 11, 3, 39; 2000 SH<sub>84</sub>, 4, 1, 0; 2000 SG<sub>239</sub>, 4, 1, 0; 2000 SW<sub>262</sub>, 4, 1, 0; 2000 SY<sub>332</sub>, 4, 1, 0; 2000 SY<sub>334</sub>, 8, 2, 983; 2000 SR<sub>365</sub>, 4, 1, 0; 2000 TO<sub>17</sub>, 4, 1, 0; 2000 TU<sub>48</sub>, 16, 2, 1; 2000 UR<sub>25</sub>, 4, 1, 0; 2000 UK<sub>38</sub>, 4, 1, 0; 2000 VH<sub>61</sub>, 4, 1, 0; 2000 WX<sub>37</sub>, 8, 2, 4; 2000 YM<sub>108</sub>, 4, 1, 0; 2001 FY<sub>207</sub>, 8, 1, 0; 2001 KF<sub>18</sub>, 4, 1, 0; 2001 NH<sub>13</sub>, 8, 1, 0; 2001 OO<sub>40</sub>, 4, 1, 0; 2001 OV<sub>44</sub>, 4, 1, 0; 2001 PL<sub>57</sub>, 4, 1, 0; 2001 PT<sub>60</sub>, 20, 5, 1950; 2001 PY<sub>64</sub>, 3, 1, 0; 2001 PS<sub>67</sub>, 4, 1, 0; 2001 QT<sub>108</sub>, 2, 1, 0; 2001 QU<sub>108</sub>, 4, 1, 0; 2001 QP<sub>127</sub>, 12, 3, 1031; 2001 QS<sub>151</sub>, 4, 1, 0; 2001 QH<sub>185</sub>, 7, 1, 0; 2001 QB<sub>232</sub>, 3, 1, 0; 2001 QK<sub>288</sub>, 4, 1, 0; 2001 RB<sub>30</sub>, 4, 1, 0; 2001 RQ<sub>43</sub>, 4, 1, 0; 2001 RE<sub>59</sub>, 4, 1, 0; 2001 RZ<sub>109</sub>, 4, 1, 0; 2001 RZ<sub>120</sub>, 4, 1, 0; 2001 RQ<sub>154</sub>, 4, 1, 0; 2001 SY<sub>1</sub>, 8, 1, 0; 2001 SZ<sub>13</sub>, 4, 1, 0; 2001 SC<sub>65</sub>, 4, 1, 0; 2001 SX<sub>76</sub>, 4, 1, 0; 2001 SX<sub>111</sub>, 4, 1, 0; 2001 SB<sub>127</sub>, 8, 2, 1; 2001 SS<sub>172</sub>, 5, 1, 0; 2001 SN<sub>174</sub>, 24, 5, 909; 2001 SD<sub>182</sub>, 4, 1, 0; 2001 SB<sub>192</sub>, 4, 1, 0; 2001 SZ<sub>195</sub>, 4, 1, 0; 2001 SR<sub>215</sub>, 7, 1, 0; 2001 SM<sub>278</sub>, 3, 1, 0; 2001 SF<sub>298</sub>, 13, 3, 7; 2001 SE<sub>300</sub>, 4, 1, 0; 2001 SA<sub>309</sub>, 3, 1, 0; 2001 SZ<sub>322</sub>, 4, 1, 0; 2001 SL<sub>323</sub>, 4, 1, 0; 2001 TO<sub>17</sub>, 4, 1, 0; 2001 TV<sub>97</sub>, 4, 1, 0; 2001 TO<sub>140</sub>, 4, 1, 0; 2001 TA<sub>162</sub>, 8, 2, 897; 2001 TO<sub>193</sub>, 4, 1, 0; 2001 TA<sub>201</sub>, 4, 1, 0; 2001 TH<sub>216</sub>, 4, 1, 0; 2001 TT<sub>232</sub>, 24, 6, 1857; 2001 UR<sub>4</sub>, 18, 4, 2821; 2001 UY<sub>41</sub>, 4, 1, 0; 2001 US<sub>77</sub>, 4, 1, 0; 2001 UK<sub>85</sub>, 4, 1, 0; 2001 UW<sub>136</sub>, 7, 2, 4; 2001 UW<sub>228</sub>, 4, 1, 0; 2001 VY<sub>124</sub>, 11, 3, 37; 2001 VR<sub>133</sub>, 4, 1, 0; 2001 WO<sub>18</sub>, 4, 1, 0; 2001 WD<sub>72</sub>, 4, 1, 0; 2001 WO<sub>95</sub>, 20, 5, 538; 2001 XK<sub>32</sub>, 4, 1, 0; 2001 XW<sub>88</sub>, 4, 1, 0; 2001 XL<sub>141</sub>, 4, 1, 0; 2001 YZ<sub>8</sub>, 4, 1, 0; 2001 YY<sub>35</sub>, 12, 3, 2773; 2002 AN<sub>68</sub>, 4, 1, 0; 2002 CE<sub>60</sub>, 4, 1, 0; 2002 CF<sub>98</sub>, 3, 1, 0; 2002 CM<sub>128</sub>, 8, 2, 1895; 2002 CN<sub>128</sub>, 4, 1, 0; 2002 CT<sub>176</sub>, 3, 1, 0; 2002 CO<sub>257</sub>, 8, 1, 0; 2002 EE<sub>82</sub>, 4, 1, 0; 2002 FG<sub>22</sub>, 4, 1, 0; 2002 FS<sub>41</sub>, 4, 1, 0; 2002 GT<sub>1</sub>, 4, 1, 0; 2002 GB<sub>135</sub>, 4, 1, 0; 2002 JV<sub>17</sub>, 3, 1, 0; 2002 JX<sub>136</sub>, 8, 2, 414; 2002 JB<sub>151</sub>, 11, 3, 1885; 2002 MR<sub>7</sub>, 12, 3, 17; 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2002 UV<sub>73</sub>, 4,



1, 0; 2002 UW<sub>76</sub>, 4, 1, 0; 2002 YP<sub>15</sub>, 4, 1, 0; 2002 YS<sub>15</sub>, 8, 2, 1; 2003 AM<sub>75</sub>, 8, 2, 2; 2003 BE<sub>5</sub>, 4, 1, 0; 2003 BJ<sub>59</sub>, 4, 1, 0; 2003 CX<sub>18</sub>, 8, 1, 0; 2003 DS<sub>8</sub>, 8, 2, 1; 2003 EX<sub>6</sub>, 4, 1, 0; 2003 EJ<sub>62</sub>, 4, 1, 0; 2003 GN<sub>11</sub>, 4, 1, 0; 2003 NA<sub>6</sub>, 4, 1, 0; 2003 PD<sub>6</sub>, 4, 1, 0; 2003 QX<sub>10</sub>, 4, 1, 0; 2003 QC<sub>39</sub>, 4, 1, 0; 2003 QH<sub>48</sub>, 3, 1, 0; 2003 QW<sub>66</sub>, 8, 2, 1; 2003 RM<sub>11</sub>, 4, 1, 0; 2003 SM<sub>32</sub>, 4, 1, 0; 2003 SK<sub>48</sub>, 4, 1, 0; 2003 SH<sub>52</sub>, 8, 2, 1721; 2003 SP<sub>62</sub>, 4, 1, 0; 2003 SR<sub>85</sub>, 4, 1, 0; 2003 SX<sub>90</sub>, 4, 1, 0; 2003 SH<sub>111</sub>, 4, 1, 0; 2003 SS<sub>121</sub>, 8, 2, 1311; 2003 SL<sub>130</sub>, 4, 1, 0; 2003 SE<sub>139</sub>, 4, 1, 0; 2003 SY<sub>151</sub>, 4, 1, 0; 2003 SC<sub>175</sub>, 4, 1, 0; 2003 SZ<sub>183</sub>, 4, 1, 0; 2003 SA<sub>200</sub>, 4, 1, 0; 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8, 2, 2; 2010 JS<sub>142</sub>, 8, 2, 874; 2010 JT<sub>150</sub>, 11, 3, 2; 2010 JX<sub>171</sub>, 8, 1, 0; 2010 KK<sub>98</sub>, 12, 3, 3333; 2010 KX<sub>119</sub>, 7, 2, 1856; 2010 LU<sub>14</sub>, 9, 2, 1506; 2010 LL<sub>53</sub>, 4, 1, 0; 2010 LV<sub>79</sub>, 4, 1, 0; 2010 LY<sub>95</sub>, 4, 1, 0; 2010 LO<sub>112</sub>, 12, 3, 26; 2010 LE<sub>119</sub>, 4, 1, 0; 2010 LM<sub>127</sub>, 4, 1, 0; 2010 MK<sub>11</sub>, 4, 1, 0; 2010 MD<sub>46</sub>, 3, 1, 0; 2010 MT<sub>49</sub>, 4, 1, 0; 2010 MW<sub>56</sub>, 12, 3, 474; 2010 MJ<sub>97</sub>, 4, 1, 0; 2010 MM<sub>97</sub>, 4, 1, 0; 2010 MA<sub>99</sub>, 12, 3, 1837; 2010 MR<sub>107</sub>, 19, 3, 2; 2010 MC<sub>111</sub>, 11, 3, 2245; 2010 NO<sub>3</sub>, 4, 1, 0; 2010 NG<sub>5</sub>, 4, 1, 0; 2010 NX<sub>11</sub>, 10, 3, 856; 2010 NA<sub>14</sub>, 8, 2, 1440; 2010 NS<sub>14</sub>, 4, 1, 0; 2010 NU<sub>14</sub>, 4, 1, 0; 2010 NF<sub>50</sub>, 4, 1, 0; 2010 NR<sub>53</sub>, 4, 1, 0; 2010 NO<sub>71</sub>, 4, 1, 0; 2010 NC<sub>86</sub>, 4, 1, 0; 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2, 1329; 2011 AS<sub>63</sub>, 4, 1, 0; 2011 AT<sub>75</sub>, 4, 1, 0; 2011 AE<sub>77</sub>, 4, 1, 0; 2011 AK<sub>78</sub>, 4, 1, 0; 2011 BY<sub>1</sub>, 4, 1, 0; 2011 BR<sub>2</sub>, 4, 1, 0; 2011 BW<sub>3</sub>, 4, 1, 0; 2011 BR<sub>9</sub>, 4, 1, 0; 2011 BQ<sub>13</sub>, 4, 1, 0; 2011 BQ<sub>14</sub>, 4, 1, 0; 2011 BJ<sub>15</sub>, 4, 1, 0; 2011 BC<sub>17</sub>, 12, 3, 1844; 2011 BC<sub>26</sub>, 7, 1, 0; 2011 BV<sub>27</sub>, 4, 1, 0; 2011 BO<sub>30</sub>, 8, 2, 412; 2011 BS<sub>30</sub>, 4, 1, 0; 2011 BX<sub>30</sub>, 4, 1, 0; 2011 BP<sub>31</sub>, 9, 2, 3; 2011 BD<sub>37</sub>, 4, 1, 0; 2011 BF<sub>44</sub>, 4, 1, 0; 2011 BA<sub>49</sub>, 4, 1, 0; 2011 BL<sub>52</sub>, 4, 1, 0; 2011 BY<sub>57</sub>, 4, 1, 0; 2011 BM<sub>78</sub>, 4, 1, 0; 2011 BC<sub>82</sub>, 8, 2, 1332; 2011 BK<sub>83</sub>, 4, 1, 0; 2011 BU<sub>85</sub>, 4, 1, 0; 2011 BA<sub>87</sub>, 4, 1, 0; 2011 BB<sub>89</sub>, 4, 1, 0; 2011 BB<sub>96</sub>, 4, 1, 0; 2011 BY<sub>100</sub>, 4, 1, 0; 2011 BS<sub>102</sub>, 4, 1, 0; 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2013 EM<sub>34</sub>, 4, 1, 0; 2013 EH<sub>39</sub>, 4, 1, 0; 2013 EM<sub>40</sub>, 4, 1, 0; 2013 EF<sub>45</sub>, 4, 1, 0; 2013 EJ<sub>45</sub>, 3, 1, 0; 2013 EH<sub>49</sub>, 4, 1, 0; 2013 ET<sub>55</sub>, 15, 4, 2257; 2013 EH<sub>58</sub>, 4, 1, 0; 2013 EO<sub>62</sub>, 3, 1, 0; 2013 ER<sub>62</sub>, 4, 1, 0; 2013 EC<sub>71</sub>, 4, 1, 0; 2013 EM<sub>83</sub>, 4, 1, 0; 2013 EJ<sub>85</sub>, 4, 1, 0; 2013 EW<sub>86</sub>, 4, 1, 0; 2013 ER<sub>86</sub>, 5, 1, 0; 2013 EG<sub>87</sub>, 7, 2, 561; 2013 EY<sub>91</sub>, 4, 1, 0; 2013 EY<sub>92</sub>, 4, 1, 0; 2013 EM<sub>94</sub>, 7, 2, 1861; 2013 EP<sub>94</sub>, 4, 1, 0; 2013 EA<sub>97</sub>, 11, 2, 2; 2013 ES<sub>97</sub>, 4, 1, 0; 2013 EN<sub>98</sub>, 8, 2, 2; 2013 EA<sub>99</sub>, 4, 1, 0; 2013 EX<sub>101</sub>, 3, 1, 0; 2013 EU<sub>102</sub>, 4, 1, 0; 2013 EE<sub>108</sub>, 8, 2, 2891; 2013 EL<sub>108</sub>, 12, 3, 2846; 2013 EB<sub>110</sub>, 4, 1, 0; 2013 EO<sub>113</sub>, 4, 1, 0; 2013 EQ<sub>113</sub>, 4, 1, 0; 2013 EW<sub>113</sub>, 4, 1, 0; 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2013 HC<sub>24</sub>, 4, 1, 0; 2013 HJ<sub>27</sub>, 4, 1, 0; 2013 HO<sub>27</sub>, 4, 1, 0; 2013 HM<sub>31</sub>, 13, 3, 3541; 2013 HV<sub>31</sub>, 8, 2, 2; 2013 HM<sub>32</sub>, 16, 4, 1402; 2013 HT<sub>32</sub>, 4, 1, 0; 2013 HF<sub>33</sub>, 4, 1, 0; 2013 HD<sub>34</sub>, 4, 1, 0; 2013 HF<sub>35</sub>, 12, 3, 1399; 2013 HP<sub>38</sub>, 12, 2, 1389; 2013 HS<sub>38</sub>, 8, 2, 1367; 2013 HP<sub>41</sub>, 3, 1, 0; 2013 HS<sub>41</sub>, 4, 1, 0; 2013 HC<sub>45</sub>, 4, 1, 0; 2013 HG<sub>45</sub>, 4, 1, 0; 2013 HX<sub>46</sub>, 11, 3, 1438; 2013 HV<sub>52</sub>, 8, 2, 1422; 2013 HG<sub>53</sub>, 11, 3, 542; 2013 HQ<sub>55</sub>, 8, 2, 1; 2013 HY<sub>57</sub>, 15, 4, 3464; 2013 HZ<sub>69</sub>, 3, 1, 0; 2013 HG<sub>76</sub>, 4, 1, 0; 2013 HP<sub>77</sub>, 4, 1, 0; 2013 HB<sub>80</sub>, 7, 2, 1420; 2013 HH<sub>81</sub>, 12, 3, 1807; 2013 HW<sub>82</sub>, 4, 1, 0; 2013 HO<sub>88</sub>, 4, 1, 0; 2013 HZ<sub>88</sub>, 4, 1, 0; 2013 HP<sub>92</sub>, 3, 1, 0; 2013 HK<sub>102</sub>, 8, 2, 18; 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2014 DJ<sub>1</sub>, 4, 1, 0; 2014 DN<sub>6</sub>, 8, 2, 42; 2014 DL<sub>15</sub>, 12, 3, 30; 2014 DE<sub>21</sub>, 12, 3, 127; 2014 DN<sub>29</sub>, 11, 3, 465; 2014 DY<sub>32</sub>, 4, 1, 0; 2014 DN<sub>34</sub>, 8, 2, 73; 2014 DQ<sub>36</sub>, 8, 2, 8; 2014 DG<sub>39</sub>, 14, 4, 3046; 2014 DC<sub>55</sub>, 4, 1, 0; 2014 DH<sub>61</sub>, 4, 1, 0; 2014 DT<sub>65</sub>, 8, 2, 16; 2014 DV<sub>66</sub>, 11, 3, 555; 2014 DY<sub>66</sub>, 20, 5, 1416; 2014 DC<sub>67</sub>, 4, 1, 0; 2014 DM<sub>67</sub>, 16, 3, 25; 2014 DM<sub>68</sub>, 16, 3, 25; 2014 DC<sub>69</sub>, 8, 2, 25; 2014 DY<sub>71</sub>, 8, 1, 0; 2014 DK<sub>73</sub>, 8, 2, 27; 2014 DR<sub>73</sub>, 8, 2, 532; 2014 DK<sub>74</sub>, 12, 3, 26; 2014 DC<sub>92</sub>, 4, 1, 0; 2014 DB<sub>99</sub>, 4, 1, 0; 2014 DJ<sub>101</sub>, 4, 1, 0; 2014 DT<sub>102</sub>, 23, 6, 1824; 2014 DS<sub>106</sub>, 8, 2, 13; 2014 DZ<sub>115</sub>, 4, 1, 0; 2014 DS<sub>120</sub>, 8, 2, 52; 2014 DZ<sub>135</sub>, 4, 1, 0; 2014 DF<sub>142</sub>, 16, 4, 1886; 2014 EG<sub>2</sub>, 8, 2, 12; 2014 EA<sub>5</sub>, 4, 1, 0; 2014 EQ<sub>7</sub>, 12, 3, 2268; 2014 EB<sub>11</sub>, 4, 1, 0; 2014 EE<sub>16</sub>, 8, 2, 438; 2014 EJ<sub>17</sub>, 12, 3, 2769; 2014 EX<sub>20</sub>, 4, 1, 0; 2014 EH<sub>22</sub>, 16, 4, 1474; 2014 EJ<sub>25</sub>, 7, 2, 16; 2014 EX<sub>29</sub>, 8, 2, 472; 2014 ES<sub>33</sub>, 4, 1, 0; 2014 EB<sub>36</sub>, 12, 3, 1847; 2014 EG<sub>36</sub>, 8, 2, 1529; 2014 ET<sub>36</sub>, 8, 2, 1062; 2014 ER<sub>38</sub>, 16, 4, 2683; 2014 EN<sub>39</sub>, 4, 1, 0; 2014 EP<sub>44</sub>, 12, 3, 896; 2014 EQ<sub>44</sub>, 8, 2, 3; 2014 ER<sub>45</sub>, 7, 2, 490; 2014 EV<sub>46</sub>, 4, 1, 0; 2014 EB<sub>49</sub>, 4, 1, 0; 2014 EG<sub>50</sub>, 12, 3, 1525; 2014 EH<sub>50</sub>, 4, 1, 0; 2014 EF<sub>51</sub>, 12, 3, 24; 2014 FD<sub>2</sub>, 4, 1, 0; 2014 FO<sub>3</sub>, 4, 1, 0; 2014 FS<sub>4</sub>, 12, 3, 12; 2014 FA<sub>17</sub>, 8, 2, 20; 2014 FV<sub>18</sub>, 8, 2, 20; 2014 FZ<sub>19</sub>, 12, 2, 48; 2014 FK<sub>20</sub>, 4, 1, 0; 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2014 GW<sub>30</sub>, 4, 1, 0; 2014 GV<sub>38</sub>, 20, 5, 1926; 2014 GO<sub>39</sub>, 24, 6, 1529; 2014 GA<sub>40</sub>, 12, 2, 3; 2014 GR<sub>40</sub>, 14, 3, 114; 2014 GV<sub>40</sub>, 23, 4, 2264; 2014 GA<sub>41</sub>, 4, 1, 0; 2014 GN<sub>42</sub>, 16, 4, 1475; 2014 GN<sub>49</sub>, 12, 3, 9; 2014 GO<sub>49</sub>, 8, 2, 83; 2014 GY<sub>49</sub>, 13, 4, 704; 2014 GK<sub>53</sub>, 20, 5, 1879; 2014 GL<sub>53</sub>, 3, 1, 0; 2014 GN<sub>53</sub>, 12, 3, 1792; 2014 HV<sub>1</sub>, 12, 3, 84; 2014 HB<sub>6</sub>, 4, 1, 0; 2014 HK<sub>11</sub>, 4, 1, 0; 2014 HR<sub>11</sub>, 3, 1, 0; 2014 HN<sub>13</sub>, 4, 1, 0; 2014 HQ<sub>15</sub>, 7, 2, 1325; 2014 HJ<sub>16</sub>, 4, 1, 0; 2014 HK<sub>17</sub>, 4, 1, 0; 2014 HT<sub>19</sub>, 7, 2, 22; 2014 HZ<sub>22</sub>, 4, 1, 0; 2014 HP<sub>23</sub>, 3, 1, 0; 2014 HH<sub>24</sub>, 4, 1, 0; 2014 HE<sub>25</sub>, 3, 1, 0; 2014 HM<sub>26</sub>, 8, 2, 481; 2014 HY<sub>26</sub>, 4, 1, 0; 2014 HY<sub>27</sub>, 19, 5, 1451; 2014 HH<sub>28</sub>, 9, 2, 463; 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2014 HM<sub>154</sub>, 4, 1, 0; 2014 HK<sub>155</sub>, 8, 2, 459; 2014 HU<sub>161</sub>, 4, 1, 0; 2014 HO<sub>165</sub>, 4, 1, 0; 2014 HC<sub>168</sub>, 12, 2, 6; 2014 HL<sub>176</sub>, 8, 2, 1833; 2014 HX<sub>180</sub>, 4, 1, 0; 2014 HP<sub>182</sub>, 7, 1, 0; 2014 HA<sub>184</sub>, 12, 3, 2919; 2014 HO<sub>185</sub>, 4, 1, 0; 2014 HN<sub>188</sub>, 8, 2, 13; 2014 HA<sub>191</sub>, 16, 4, 2331; 2014 HK<sub>192</sub>, 20, 4, 995; 2014 HA<sub>193</sub>, 12, 2, 919; 2014 HQ<sub>194</sub>, 8, 2, 439; 2014 HY<sub>194</sub>, 4, 1, 0; 2014 HK<sub>195</sub>, 24, 5, 1818; 2014 JG<sub>4</sub>, 1, 0; 2014 JP<sub>12</sub>, 3, 447; 2014 JO<sub>1</sub>, 4, 1, 0; 2014 JR<sub>1</sub>, 11, 3, 2424; 2014 JY<sub>1</sub>, 8, 2, 572; 2014 JC<sub>2</sub>, 16, 4, 2567; 2014 JL<sub>2</sub>, 4, 1, 0; 2014 JC<sub>3</sub>, 4, 1, 0; 2014 JM<sub>4</sub>, 4, 1, 0; 2014 JV<sub>5</sub>, 11, 2, 1; 2014 JZ<sub>5</sub>, 3, 1, 0; 2014 JB<sub>6</sub>, 8, 2, 1069; 2014 JC<sub>6</sub>, 4, 1, 0; 2014 JH<sub>11</sub>, 8, 2, 952; 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2014 JY<sub>78</sub>, 21, 4, 1408; 2014 KG<sub>2</sub>, 4, 1, 0; 2014 KQ<sub>3</sub>, 16, 4, 2362; 2014 KW<sub>3</sub>, 4, 1, 0; 2014 KR<sub>4</sub>, 12, 3, 1477; 2014 KV<sub>4</sub>, 3, 1, 0; 2014 KV<sub>5</sub>, 4, 1, 0; 2014 KL<sub>6</sub>, 4, 1, 0; 2014 KW<sub>6</sub>, 16, 4, 2049; 2014 KD<sub>7</sub>, 4, 1, 0; 2014 KJ<sub>7</sub>, 16, 4, 2050; 2014 KH<sub>8</sub>, 8, 2, 2; 2014 KM<sub>9</sub>, 20, 5, 3280; 2014 KY<sub>9</sub>, 8, 2, 28; 2014 KG<sub>10</sub>, 3, 1, 0; 2014 KR<sub>10</sub>, 4, 1, 0; 2014 KM<sub>11</sub>, 8, 2, 6; 2014 KJ<sub>13</sub>, 3, 1, 0; 2014 KF<sub>16</sub>, 8, 2, 29; 2014 KQ<sub>17</sub>, 4, 1, 0; 2014 KD<sub>18</sub>, 20, 5, 2284; 2014 KG<sub>18</sub>, 4, 1, 0; 2014 KZ<sub>20</sub>, 4, 1, 0; 2014 KQ<sub>23</sub>, 4, 1, 0; 2014 KY<sub>23</sub>, 20, 5, 1418; 2014 KE<sub>24</sub>, 3, 1, 0; 2014 KU<sub>24</sub>, 4, 1, 0; 2014 KY<sub>24</sub>, 12, 3, 3452; 2014 KZ<sub>24</sub>, 4, 1, 0; 2014 KX<sub>25</sub>, 12, 2, 29; 2014 KZ<sub>25</sub>, 4, 1, 0; 2014 KC<sub>26</sub>, 15, 4, 2744; 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2602; 2014 MN<sub>22</sub>, 4, 1, 0; 2014 MD<sub>23</sub>, 4, 1, 0; 2014 MO<sub>23</sub>, 4, 1, 0; 2014 MA<sub>24</sub>, 3, 1, 0; 2014 MP<sub>25</sub>, 12, 3, 444; 2014 ME<sub>29</sub>, 4, 1, 0; 2014 MO<sub>30</sub>, 4, 1, 0; 2014 MP<sub>30</sub>, 8, 2, 25; 2014 MU<sub>30</sub>, 8, 2, 976; 2014 MW<sub>30</sub>, 4, 1, 0; 2014 MY<sub>30</sub>, 4, 1, 0; 2014 MK<sub>31</sub>, 4, 1, 0; 2014 MP<sub>32</sub>, 7, 2, 454; 2014 MJ<sub>32</sub>, 4, 1, 0; 2014 MM<sub>32</sub>, 16, 4, 1482; 2014 MN<sub>32</sub>, 4, 1, 0; 2014 MR<sub>32</sub>, 16, 4, 1360; 2014 MW<sub>33</sub>, 8, 2, 6; 2014 MD<sub>34</sub>, 8, 2, 2; 2014 ME<sub>34</sub>, 16, 4, 2092; 2014 MH<sub>34</sub>, 3, 1, 0; 2014 MO<sub>34</sub>, 17, 4, 2564; 2014 MW<sub>34</sub>, 27, 7, 2884; 2014 MA<sub>35</sub>, 3, 1, 0; 2014 MB<sub>35</sub>, 4, 1, 0; 2014 MC<sub>35</sub>, 10, 3, 2417; 2014 MO<sub>35</sub>, 8, 2, 50; 2014 MD<sub>36</sub>, 4, 1, 0; 2014 MG<sub>36</sub>, 10, 2, 66; 2014 MD<sub>37</sub>, 4, 1, 0; 2014 MH<sub>37</sub>, 20, 4, 949; 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2014 NZ<sub>43</sub>, 8, 2, 27; 2014 NC<sub>44</sub>, 8, 2, 2237; 2014 NH<sub>44</sub>, 4, 1, 0; 2014 NN<sub>44</sub>, 11, 3, 65; 2014 NP<sub>44</sub>, 12, 3, 915; 2014 NF<sub>47</sub>, 4, 1, 0; 2014 NQ<sub>49</sub>, 4,



2772; 2014 OX<sub>12</sub>, 20, 4, 1727; 2014 OD<sub>13</sub>, 12, 3, 2771; 2014 OJ<sub>13</sub>, 3, 1, 0; 2014 OT<sub>13</sub>, 4, 1, 0; 2014 OL<sub>14</sub>, 4, 1, 0; 2014 OU<sub>14</sub>, 7, 2, 12; 2014 OX<sub>14</sub>, 16, 4, 2718; 2014 OY<sub>14</sub>, 4, 1, 0; 2014 OA<sub>15</sub>, 12, 3, 1004; 2014 OD<sub>15</sub>, 4, 1, 0; 2014 OK<sub>15</sub>, 11, 3, 629; 2014 OP<sub>15</sub>, 4, 1, 0; 2014 OX<sub>15</sub>, 4, 1, 0; 2014 OY<sub>15</sub>, 4, 1, 0; 2014 OA<sub>16</sub>, 3, 1, 0; 2014 OF<sub>16</sub>, 12, 3, 2887; 2014 OH<sub>16</sub>, 4, 1, 0; 2014 OB<sub>17</sub>, 4, 1, 0; 2014 OF<sub>17</sub>, 4, 1, 0; 2014 OK<sub>17</sub>, 4, 1, 0; 2014 ON<sub>17</sub>, 4, 1, 0; 2014 OO<sub>17</sub>, 12, 3, 1811; 2014 OA<sub>18</sub>, 8, 2, 456; 2014 OB<sub>18</sub>, 4, 1, 0; 2014 OD<sub>18</sub>, 3, 1, 0; 2014 OX<sub>18</sub>, 12, 2, 462; 2014 OY<sub>18</sub>, 16, 4, 926; 2014 OL<sub>19</sub>, 3, 1, 0; 2014 OQ<sub>19</sub>, 4, 1, 0; 2014 OZ<sub>19</sub>, 16, 4, 512; 2014 OC<sub>20</sub>, 12, 3, 1057; 2014 OE<sub>20</sub>, 4, 1, 0; 2014 OG<sub>20</sub>, 4, 1, 0; 2014 OH<sub>20</sub>, 8, 2, 923; 2014 OZ<sub>20</sub>, 4, 1, 0; 2014 OC<sub>21</sub>, 16, 4, 1011; 2014 OT<sub>22</sub>, 12, 3, 1531; 2014 OZ<sub>24</sub>, 4, 1, 0; 2014 OM<sub>25</sub>, 4, 1, 0; 2014 OB<sub>26</sub>, 15, 4, 1362; 2014 OE<sub>26</sub>, 7, 2, 24; 2014 OF<sub>26</sub>, 4, 1, 0; 2014 OK<sub>26</sub>, 4, 1, 0; 2014 OL<sub>26</sub>, 4, 1, 0; 2014 OM<sub>26</sub>, 12, 3, 473; 2014 OT<sub>26</sub>, 20, 5, 2827; 2014 OC<sub>27</sub>, 8, 2, 1826; 2014 OG<sub>27</sub>, 3, 1, 0; 2014 OD<sub>28</sub>, 4, 1, 0; 2014 OK<sub>28</sub>, 4, 1, 0; 2014 OG<sub>29</sub>, 4, 1, 0; 2014 OO<sub>29</sub>, 4, 1, 0; 2014 OS<sub>29</sub>, 4, 1, 0; 2014 OB<sub>30</sub>, 3, 1, 0; 2014 OD<sub>30</sub>, 4, 1, 0; 2014 OF<sub>30</sub>, 4, 1, 0; 2014 OG<sub>30</sub>, 4, 1, 0; 2014 OJ<sub>30</sub>, 3, 1, 0; 2014 OV<sub>30</sub>, 8, 2, 1407; 2014 OW<sub>30</sub>, 4, 1, 0; 2014 OD<sub>31</sub>, 4, 1, 0; 2014 OG<sub>32</sub>, 8, 1, 0; 2014 ON<sub>33</sub>, 12, 3, 429; 2014 OM<sub>34</sub>, 8, 2, 1570; 2014 OF<sub>35</sub>, 4, 1, 0; 2014 OS<sub>35</sub>, 4, 1, 0; 2014 OC<sub>36</sub>, 7, 2, 22; 2014 OF<sub>36</sub>, 4, 1, 0; 2014 OH<sub>36</sub>, 4, 1, 0; 2014 OT<sub>36</sub>, 4, 1, 0; 2014 OC<sub>37</sub>, 4, 1, 0; 2014 OZ<sub>37</sub>, 4, 1, 0; 2014 ON<sub>38</sub>, 20, 5, 955; 2014 OT<sub>38</sub>, 4, 1, 0; 2014 OZ<sub>38</sub>, 4, 1, 0; 2014 OA<sub>39</sub>, 4, 1, 0; 2014 OR<sub>39</sub>, 4, 1, 0; 2014 OU<sub>39</sub>, 3, 1, 0; 2014 OY<sub>39</sub>, 4, 1, 0; 2014 OJ<sub>40</sub>, 7, 2, 868; 2014 OQ<sub>40</sub>, 16, 3, 1939; 2014 OR<sub>40</sub>, 16, 4, 1488; 2014 OF<sub>41</sub>, 4, 1, 0; 2014 OT<sub>41</sub>, 12, 3, 55; 2014 OC<sub>42</sub>, 8, 2, 573; 2014 OL<sub>42</sub>, 4, 1, 0; 2014 ON<sub>42</sub>, 8, 2, 53; 2014 OQ<sub>42</sub>, 8, 2, 941; 2014 OR<sub>42</sub>, 11, 3, 2303; 2014 OC<sub>43</sub>, 15, 4, 2203; 2014 OM<sub>43</sub>, 4, 1, 0; 2014 ON<sub>43</sub>, 8, 2, 20; 2014 OV<sub>43</sub>, 8, 2, 2898; 2014 OZ<sub>43</sub>, 3, 1, 0; 2014 OC<sub>44</sub>, 15, 4, 1489; 2014 OE<sub>44</sub>, 7, 2, 1544; 2014 OF<sub>44</sub>, 3, 1, 0; 2014 OM<sub>44</sub>, 3, 1, 0; 2014 OT<sub>44</sub>, 12, 3, 1368; 2014 OL<sub>45</sub>, 8, 2, 27; 2014 OV<sub>45</sub>, 4, 1, 0; 2014 OK<sub>46</sub>, 12, 3, 563; 2014 OM<sub>46</sub>, 4, 1, 0; 2014 OO<sub>46</sub>, 3, 1, 0; 2014 OP<sub>46</sub>, 4, 1, 0; 2014 OQ<sub>46</sub>, 15, 4, 1843; 2014 OV<sub>46</sub>, 12, 3, 1361; 2014 OL<sub>47</sub>, 11, 3, 1448; 2014 OU<sub>47</sub>, 16, 4, 85; 2014 OD<sub>48</sub>, 11, 3, 28; 2014 OJ<sub>48</sub>, 9, 2, 50; 2014 OR<sub>48</sub>, 16, 4, 1816; 2014 OY<sub>48</sub>, 4, 1, 0; 2014 OG<sub>49</sub>, 11, 3, 438; 2014 ON<sub>49</sub>, 4, 1, 0; 2014 OE<sub>50</sub>, 8, 2, 29; 2014 OA<sub>51</sub>, 20, 5, 980; 2014 OB<sub>51</sub>, 12, 3, 880; 2014 OT<sub>51</sub>, 4, 1, 0; 2014 OZ<sub>51</sub>, 4, 1, 0; 2014 OC<sub>52</sub>, 16, 4, 1396; 2014 OD<sub>52</sub>, 16, 4, 2178; 2014 OF<sub>52</sub>, 8, 2, 949; 2014 OP<sub>52</sub>, 8, 2, 22; 2014 OB<sub>53</sub>, 4, 1, 0; 2014 OD<sub>53</sub>, 28, 7, 2673; 2014 OJ<sub>53</sub>, 4, 1, 0; 2014 OM<sub>53</sub>, 4, 1, 0; 2014 OU<sub>53</sub>, 4, 1, 0; 2014 OV<sub>53</sub>, 4, 1, 0; 2014 OW<sub>53</sub>, 4, 1, 0; 2014 OQ<sub>54</sub>, 15, 4, 474; 2014 OC<sub>55</sub>, 4, 1, 0; 2014 OK<sub>56</sub>, 4, 1, 0; 2014 OT<sub>56</sub>, 24, 5, 1856; 2014 OL<sub>57</sub>, 4, 1, 0; 2014 OX<sub>57</sub>, 12, 3, 2858; 2014 OF<sub>58</sub>, 19, 5, 917; 2014 OY<sub>58</sub>, 3, 1, 0; 2014 OO<sub>59</sub>, 4, 1, 0; 2014 OX<sub>59</sub>, 19, 5, 2349; 2014 OE<sub>60</sub>, 4, 1, 0; 2014 OF<sub>60</sub>, 8, 2, 2527; 2014 OV<sub>60</sub>, 4, 1, 0; 2014 OJ<sub>62</sub>, 4, 1, 0; 2014 OK<sub>62</sub>, 4, 1, 0; 2014 OT<sub>62</sub>, 4, 1, 0; 2014 OW<sub>62</sub>, 11, 3, 1011; 2014 OB<sub>63</sub>, 12, 3, 1032; 2014 OK<sub>64</sub>, 16, 4, 2369; 2014 OS<sub>64</sub>, 8, 2, 548; 2014 OY<sub>64</sub>, 4, 1, 0; 2014 OB<sub>65</sub>, 4, 1, 0; 2014 OG<sub>65</sub>, 8, 2, 999; 2014 OU<sub>65</sub>, 8, 2, 1025; 2014 OX<sub>65</sub>, 16, 4, 1698; 2014 OD<sub>66</sub>, 8, 2, 6; 2014 OG<sub>66</sub>, 4, 1, 0; 2014 OB<sub>67</sub>, 20, 5, 2274; 2014 OC<sub>67</sub>, 12, 3, 1398; 2014 OD<sub>67</sub>, 12, 3, 908; 2014 OH<sub>67</sub>, 8, 2, 29; 2014 OY<sub>67</sub>, 4, 1, 0; 2014 OF<sub>68</sub>, 24, 6, 3163; 2014 OW<sub>70</sub>, 6, 2, 1046; 2014 OX<sub>70</sub>, 4, 1, 0; 2014 OY<sub>70</sub>, 12, 3, 2851; 2014 OF<sub>71</sub>, 7, 2, 982; 2014 OD<sub>71</sub>, 7, 2, 1444; 2014 OJ<sub>71</sub>, 4, 1, 0; 2014 OK<sub>71</sub>, 12, 3, 108; 2014 OX<sub>71</sub>, 4, 1, 0; 2014 OF<sub>72</sub>, 4, 1, 0; 2014 OG<sub>72</sub>, 4, 1, 0; 2014 OL<sub>72</sub>, 4, 1, 0; 2014 OY<sub>72</sub>, 3, 1, 0; 2014 OZ<sub>72</sub>, 8, 2, 90; 2014 OA<sub>73</sub>, 16, 4, 2245; 2014 OH<sub>73</sub>, 20, 4, 1478; 2014 OX<sub>73</sub>, 4, 1, 0; 2014 OB<sub>74</sub>, 4, 1, 0; 2014 OW<sub>76</sub>, 28, 7, 3040; 2014 OX<sub>79</sub>, 20, 5, 1432; 2014 OY<sub>79</sub>, 8, 1, 0; 2014 OJ<sub>80</sub>, 16, 4, 2298; 2014 OR<sub>80</sub>, 12, 3, 2217; 2014 OT<sub>80</sub>, 8, 2, 2433; 2014 OP<sub>84</sub>, 20, 5, 2687; 2014 OD<sub>85</sub>, 8, 2, 1778; 2014 OM<sub>85</sub>, 4, 1, 0; 2014 OR<sub>85</sub>, 11, 3, 1530; 2014 OX<sub>85</sub>, 4, 1, 0; 2014 OU<sub>87</sub>, 28, 6, 1503; 2014 OA<sub>88</sub>, 4, 1, 0; 2014 OR<sub>88</sub>, 8, 2, 453; 2014 OT<sub>88</sub>, 4, 1, 0; 2014 OK<sub>89</sub>, 12, 3, 1526; 2014 OF<sub>90</sub>, 4, 1, 0; 2014 OL<sub>90</sub>, 4, 1, 0; 2014 OO<sub>90</sub>, 16, 4, 1887; 2014 OJ<sub>91</sub>, 4, 1, 0; 2014 OT<sub>91</sub>, 12, 3, 1597; 2014 OP<sub>92</sub>, 7, 2, 943; 2014 OT<sub>92</sub>, 24, 6, 2304; 2014 OV<sub>92</sub>, 24, 6, 1825; 2014 OA<sub>93</sub>, 4, 1, 0; 2014 OQ<sub>94</sub>, 4, 1, 0; 2014 OR<sub>94</sub>, 8, 2, 3021; 2014 OT<sub>94</sub>, 4, 1, 0; 2014 OG<sub>94</sub>, 4, 1, 0; 2014 OA<sub>95</sub>, 4, 1, 0; 2014 OF<sub>95</sub>, 4, 1, 0; 2014 OG<sub>95</sub>, 4, 1, 0; 2014 OH<sub>95</sub>, 8, 2, 1367; 2014 OK<sub>95</sub>, 4, 1, 0; 2014 OQ<sub>95</sub>, 8, 2, 16; 2014 OS<sub>95</sub>, 4, 1, 0; 2014 OY<sub>95</sub>, 4, 1, 0; 2014 OA<sub>96</sub>, 4, 1, 0; 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2014 OU<sub>98</sub>, 4, 1, 0; 2014 OA<sub>99</sub>, 4, 1, 0; 2014 OC<sub>99</sub>, 4, 1, 0; 2014 OD<sub>99</sub>, 4, 1, 0; 2014 OE<sub>99</sub>, 7, 2, 887; 2014 OF<sub>99</sub>, 4, 1, 0; 2014 OH<sub>99</sub>, 8, 2, 4; 2014 OJ<sub>99</sub>, 4, 1, 0; 2014 OK<sub>99</sub>, 4, 1, 0; 2014 OM<sub>99</sub>, 8, 2, 3; 2014 ON<sub>99</sub>, 4, 1, 0; 2014 OP<sub>99</sub>, 4, 1, 0; 2014 OQ<sub>99</sub>, 4, 1, 0; 2014 OR<sub>99</sub>, 4, 1, 0; 2014 OS<sub>99</sub>, 4, 1, 0; 2014 OT<sub>99</sub>, 4, 1, 0; 2014 OV<sub>99</sub>, 4, 1, 0; 2014 OZ<sub>99</sub>, 8, 2, 70; 2014 OA<sub>100</sub>, 8, 2, 1282; 2014 OB<sub>100</sub>, 4, 1, 0; 2014 OC<sub>100</sub>, 4, 1, 0; 2014 OF<sub>100</sub>, 4, 1, 0; 2014 OG<sub>100</sub>, 4, 1, 0; 2014 OH<sub>100</sub>, 8, 2, 1; 2014 OK<sub>100</sub>, 9, 2, 75; 2014 OM<sub>100</sub>, 12, 3, 1419; 2014 OQ<sub>100</sub>, 4, 1, 0; 2014 OR<sub>100</sub>, 4, 1, 0; 2014 OS<sub>100</sub>, 4, 1, 0; 2014 OU<sub>100</sub>, 3, 1, 0; 2014 OV<sub>100</sub>, 4, 1, 0; 2014 OY<sub>100</sub>, 4, 1, 0; 2014 OZ<sub>100</sub>, 4, 1, 0; 2014 OB<sub>101</sub>, 8, 2, 915; 2014 OC<sub>101</sub>, 24, 5, 2226; 2014 OE<sub>101</sub>, 4, 1, 0; 2014 OG<sub>101</sub>, 4, 1, 0; 2014 OL<sub>101</sub>, 8, 2, 1; 2014 OQ<sub>101</sub>, 4, 1, 0; 2014 OR<sub>101</sub>, 3, 1, 0; 2014 OT<sub>101</sub>, 3, 1, 0; 2014 OX<sub>101</sub>, 8, 2, 3; 2014 OZ<sub>101</sub>, 4, 1, 0; 2014 OA<sub>102</sub>, 16, 4, 1631; 2014 OB<sub>102</sub>, 4, 1, 0; 2014 OD<sub>102</sub>, 8, 2, 3; 2014 OK<sub>102</sub>, 4, 1, 0; 2014 ON<sub>102</sub>, 8, 2, 3; 2014 OF<sub>103</sub>, 8, 2, 64; 2014 OL<sub>103</sub>, 4, 1, 0; 2014 ON<sub>103</sub>, 12, 3, 1884; 2014 OO<sub>103</sub>, 4, 1, 0; 2014 OP<sub>103</sub>, 4, 1, 0;

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2014 OY<sub>110</sub>, 30, 7, 2300; 2014 OE<sub>111</sub>, 4, 1, 0; 2014 OS<sub>111</sub>, 20, 4, 505; 2014 OU<sub>111</sub>, 4, 1, 0; 2014 OY<sub>111</sub>, 4, 1, 0; 2014 OC<sub>112</sub>, 4, 1, 0; 2014 OC<sub>113</sub>, 16, 4, 1321; 2014 OL<sub>113</sub>, 4, 1, 0; 2014 OO<sub>113</sub>, 12, 3, 446; 2014 OV<sub>113</sub>, 4, 1, 0; 2014 OO<sub>114</sub>, 4, 1, 0; 2014 OX<sub>114</sub>, 8, 2, 921; 2014 OF<sub>115</sub>, 4, 1, 0; 2014 OK<sub>115</sub>, 8, 2, 886; 2014 ON<sub>115</sub>, 23, 6, 1859; 2014 OQ<sub>115</sub>, 12, 3, 1896; 2014 OT<sub>115</sub>, 12, 3, 1795; 2014 OD<sub>116</sub>, 11, 3, 472; 2014 OQ<sub>116</sub>, 8, 2, 1589; 2014 OO<sub>117</sub>, 16, 4, 1397; 2014 OU<sub>117</sub>, 20, 5, 2340; 2014 OC<sub>118</sub>, 4, 1, 0; 2014 OF<sub>118</sub>, 4, 1, 0; 2014 OP<sub>118</sub>, 4, 1, 0; 2014 OQ<sub>118</sub>, 4, 1, 0; 2014 OS<sub>118</sub>, 16, 4, 1631; 2014 OC<sub>119</sub>, 8, 2, 452; 2014 OF<sub>119</sub>, 4, 1, 0; 2014 OJ<sub>119</sub>, 12, 3, 903; 2014 OD<sub>120</sub>, 8, 2, 920; 2014 ON<sub>120</sub>, 16, 4, 2092; 2014 OQ<sub>120</sub>, 12, 3, 1623; 2014 OH<sub>121</sub>, 4, 1, 0; 2014 OP<sub>121</sub>, 4, 1, 0; 2014 OQ<sub>121</sub>, 4, 1, 0; 2014 OF<sub>122</sub>, 12, 3, 490; 2014 OL<sub>122</sub>, 12, 3, 500; 2014 OU<sub>122</sub>, 4, 1, 0; 2014 OW<sub>122</sub>, 19, 5, 2329; 2014 OX<sub>122</sub>, 4, 1, 0; 2014 OZ<sub>122</sub>, 9, 2, 60; 2014 OC<sub>123</sub>, 4, 1, 0; 2014 OJ<sub>123</sub>, 4, 1, 0; 2014 OK<sub>123</sub>, 4, 1, 0; 2014 OO<sub>123</sub>, 15, 4, 1890; 2014 OD<sub>124</sub>, 4, 1, 0; 2014 OG<sub>124</sub>, 24, 4, 1859; 2014 OS<sub>124</sub>, 3, 1, 0; 2014 ON<sub>125</sub>, 4, 1, 0; 2014 OS<sub>125</sub>, 11, 3, 501; 2014 OV<sub>125</sub>, 4, 1, 0; 2014 OX<sub>125</sub>, 4, 1, 0; 2014 OK<sub>126</sub>, 4, 1, 0; 2014 OX<sub>126</sub>, 4, 1, 0; 2014 OY<sub>126</sub>, 4, 1, 0; 2014 OC<sub>127</sub>, 4, 1, 0; 2014 OY<sub>127</sub>, 12, 3, 1927; 2014 OB<sub>128</sub>, 4, 1, 0; 2014 OC<sub>128</sub>, 4, 1, 0; 2014 OH<sub>128</sub>, 3, 1, 0; 2014 OG<sub>129</sub>, 10, 2, 68; 2014 OH<sub>129</sub>, 4, 1, 0; 2014 OJ<sub>129</sub>, 16, 4, 65; 2014 OM<sub>129</sub>, 4, 1, 0; 2014 OR<sub>129</sub>, 27, 7, 2215; 2014 OG<sub>130</sub>, 20, 5, 3071; 2014 OJ<sub>130</sub>, 21, 4, 1300; 2014 ON<sub>130</sub>, 8, 2, 70; 2014 OO<sub>130</sub>, 4, 1, 0; 2014 OY<sub>130</sub>, 7, 2, 941; 2014 OZ<sub>130</sub>, 4, 1, 0; 2014 OB<sub>131</sub>, 4, 1, 0; 2014 OE<sub>131</sub>, 4, 1, 0; 2014 OH<sub>131</sub>, 4, 1, 0; 2014 OO<sub>131</sub>, 4, 1, 0; 2014 OR<sub>131</sub>, 4, 1, 0; 2014 OQ<sub>132</sub>, 16, 4, 2478; 2014 OT<sub>132</sub>, 4, 1, 0; 2014 OQ<sub>133</sub>, 8, 2, 1330; 2014 OY<sub>133</sub>, 8, 2, 428; 2014 OM<sub>134</sub>, 10, 3, 517; 2014 ON<sub>134</sub>, 4, 1, 0; 2014 OT<sub>134</sub>, 4, 1, 0; 2014 OU<sub>134</sub>, 7, 2, 2823; 2014 OB<sub>135</sub>, 4, 1, 0; 2014 OK<sub>135</sub>, 8, 2, 22; 2014 OM<sub>135</sub>, 4, 1, 0; 2014 OP<sub>135</sub>, 4, 1, 0; 2014 OE<sub>136</sub>, 6, 2, 435; 2014 OW<sub>137</sub>, 12, 3, 999; 2014 OA<sub>138</sub>, 12, 3, 2315; 2014 OL<sub>138</sub>, 12, 3, 482; 2014 OR<sub>138</sub>, 4, 1, 0; 2014 OT<sub>138</sub>, 4, 1, 0; 2014 OV<sub>138</sub>, 4, 1, 0; 2014 OX<sub>138</sub>, 8, 2, 1428; 2014 OZ<sub>138</sub>, 20, 4, 1535; 2014 OA<sub>139</sub>, 8, 2, 944; 2014 OB<sub>139</sub>, 4, 1, 0; 2014 OE<sub>139</sub>, 12, 2, 14; 2014 OH<sub>139</sub>, 8, 2, 32; 2014 OL<sub>139</sub>, 8, 2, 50; 2014 OB<sub>141</sub>, 4, 1, 0; 2014 OE<sub>141</sub>, 12, 3, 2188; 2014 OG<sub>141</sub>, 19, 4, 543; 2014 OH<sub>141</sub>, 4, 1, 0; 2014 OM<sub>141</sub>, 8, 2, 8; 2014 OT<sub>141</sub>, 4, 1, 0; 2014 OK<sub>142</sub>, 8, 2, 1425; 2014 OL<sub>142</sub>, 4, 1, 0; 2014 OB<sub>143</sub>, 8, 2, 15; 2014 OD<sub>143</sub>, 28, 7, 2770; 2014 OV<sub>143</sub>, 4, 1, 0; 2014 OS<sub>144</sub>, 13, 3, 1501; 2014 OD<sub>146</sub>, 8, 2, 463; 2014 OY<sub>146</sub>, 4, 1, 0; 2014 OR<sub>147</sub>, 4, 1, 0; 2014 OU<sub>147</sub>, 4, 1, 0; 2014 OZ<sub>147</sub>, 3, 1, 0; 2014 OC<sub>148</sub>, 4, 1, 0; 2014 OC<sub>148</sub>, 4, 1, 0; 2014 OS<sub>149</sub>, 8, 2, 977; 2014 OO<sub>150</sub>, 20, 5, 2744; 2014 OR<sub>150</sub>, 8, 2, 8; 2014 OX<sub>150</sub>, 4, 1, 0; 2014 OD<sub>151</sub>, 8, 2, 427; 2014 OO<sub>151</sub>, 20, 5, 558; 2014 OW<sub>151</sub>, 4, 1, 0; 2014 OO<sub>152</sub>, 8, 2, 1474; 2014 OH<sub>153</sub>, 4, 1, 0; 2014 OY<sub>153</sub>, 4, 1, 0; 2014 OG<sub>154</sub>, 16, 4, 2252; 2014 OM<sub>154</sub>, 4, 1, 0; 2014 OP<sub>154</sub>, 8, 2, 30; 2014 OG<sub>155</sub>, 4, 1, 0; 2014 OM<sub>155</sub>, 12, 3, 1385; 2014 OU<sub>155</sub>, 8, 2, 1396; 2014 OA<sub>156</sub>, 8, 2, 2585; 2014 OB<sub>156</sub>, 4, 1, 0; 2014 OJ<sub>156</sub>, 8, 2, 475; 2014 OS<sub>156</sub>, 4, 1, 0; 2014 OB<sub>157</sub>, 4, 1, 0; 2014 OP<sub>157</sub>, 8, 2, 27; 2014 OK<sub>158</sub>, 16, 4, 921; 2014 ON<sub>158</sub>, 8, 2, 29; 2014 OQ<sub>158</sub>, 11, 3, 40; 2014 OG<sub>159</sub>, 3, 1, 0; 2014 OF<sub>159</sub>, 4, 1, 0; 2014 OW<sub>160</sub>, 12, 3, 1968; 2014 OC<sub>161</sub>, 16, 4, 1418; 2014 OJ<sub>161</sub>, 4, 1, 0; 2014 OC<sub>163</sub>, 4, 1, 0; 2014 OV<sub>164</sub>, 8, 2, 10; 2014 OH<sub>165</sub>, 20, 5, 1045; 2014 OQ<sub>165</sub>, 7, 2, 916; 2014 OD<sub>166</sub>, 24, 6, 2451; 2014 OR



1, 0; 2014 OH<sub>196</sub>, 16, 4, 1535; 2014 OK<sub>196</sub>, 4, 1, 0; 2014 ON<sub>196</sub>, 12, 2, 68; 2014 OO<sub>196</sub>, 4, 1, 0; 2014 OQ<sub>196</sub>, 4, 1, 0; 2014 OY<sub>196</sub>, 19, 5, 3395; 2014 OB<sub>197</sub>, 4, 1, 0; 2014 OJ<sub>197</sub>, 12, 3, 2723; 2014 OK<sub>197</sub>, 4, 1, 0; 2014 OO<sub>197</sub>, 7, 2, 559; 2014 OF<sub>198</sub>, 4, 1, 0; 2014 OG<sub>198</sub>, 8, 2, 1; 2014 OK<sub>198</sub>, 4, 1, 0; 2014 OL<sub>198</sub>, 4, 1, 0; 2014 OM<sub>198</sub>, 8, 2, 1450; 2014 OO<sub>199</sub>, 20, 5, 3545; 2014 OL<sub>200</sub>, 8, 2, 1044; 2014 OU<sub>200</sub>, 12, 3, 1740; 2014 OX<sub>200</sub>, 4, 1, 0; 2014 OP<sub>201</sub>, 16, 4, 2029; 2014 OG<sub>202</sub>, 20, 5, 2329; 2014 OH<sub>202</sub>, 18, 5, 907; 2014 OQ<sub>202</sub>, 8, 2, 496; 2014 OP<sub>203</sub>, 20, 5, 1599; 2014 OU<sub>203</sub>, 4, 1, 0; 2014 OA<sub>204</sub>, 4, 1, 0; 2014 OJ<sub>204</sub>, 27, 7, 2774; 2014 OS<sub>204</sub>, 11, 3, 953; 2014 OW<sub>204</sub>, 4, 1, 0; 2014 OB<sub>205</sub>, 11, 3, 28; 2014 OG<sub>205</sub>, 4, 1, 0; 2014 OH<sub>205</sub>, 8, 2, 27; 2014 OO<sub>205</sub>, 4, 1, 0; 2014 OP<sub>205</sub>, 4, 1, 0; 2014 OZ<sub>205</sub>, 11, 3, 2239; 2014 OQ<sub>206</sub>, 4, 1, 0; 2014 OR<sub>206</sub>, 4, 1, 0; 2014 OU<sub>206</sub>, 4, 1, 0; 2014 OW<sub>206</sub>, 4, 1, 0; 2014 OZ<sub>206</sub>, 4, 1, 0; 2014 OB<sub>207</sub>, 4, 1, 0; 2014 OE<sub>207</sub>, 12, 3, 933; 2014 OH<sub>207</sub>, 28, 7, 2273; 2014 OK<sub>208</sub>, 16, 4, 2011; 2014 OO<sub>208</sub>, 4, 1, 0; 2014 OU<sub>208</sub>, 8, 2, 2083; 2014 OB<sub>209</sub>, 16, 4, 1814; 2014 OW<sub>209</sub>, 4, 1, 0; 2014 OL<sub>210</sub>, 4, 1, 0; 2014 OR<sub>211</sub>, 8, 1, 0; 2014 OU<sub>211</sub>, 3, 1, 0; 2014 OW<sub>211</sub>, 16, 4, 2545; 2014 OC<sub>212</sub>, 4, 1, 0; 2014 OG<sub>212</sub>, 32, 7, 1883; 2014 ON<sub>212</sub>, 4, 1, 0; 2014 OO<sub>212</sub>, 4, 1, 0; 2014 OS<sub>213</sub>, 16, 4, 1431; 2014 OB<sub>214</sub>, 8, 2, 25; 2014 OF<sub>214</sub>, 12, 3, 22; 2014 OM<sub>214</sub>, 12, 3, 474; 2014 OX<sub>216</sub>, 15, 4, 1002; 2014 OF<sub>217</sub>, 4, 1, 0; 2014 OT<sub>218</sub>, 4, 1, 0; 2014 OA<sub>220</sub>, 16, 4, 2136; 2014 OO<sub>220</sub>, 4, 1, 0; 2014 OQ<sub>222</sub>, 8, 2, 854; 2014 OM<sub>224</sub>, 8, 2, 505; 2014 OR<sub>224</sub>, 8, 2, 16; 2014 OG<sub>225</sub>, 8, 2, 425; 2014 OE<sub>226</sub>, 4, 1, 0; 2014 OG<sub>226</sub>, 4, 1, 0; 2014 OH<sub>226</sub>, 20, 5, 1425; 2014 OB<sub>227</sub>, 12, 3, 938; 2014 OG<sub>227</sub>, 8, 2, 2; 2014 OM<sub>227</sub>, 12, 3, 2723; 2014 OL<sub>228</sub>, 4, 1, 0; 2014 OP<sub>228</sub>, 3, 1, 0; 2014 OC<sub>230</sub>, 4, 1, 0; 2014 OB<sub>231</sub>, 8, 1, 0; 2014 OL<sub>231</sub>, 4, 1, 0; 2014 ON<sub>231</sub>, 3, 1, 0; 2014 OO<sub>231</sub>, 4, 1, 0; 2014 OF<sub>231</sub>, 4, 1, 0; 2014 OU<sub>231</sub>, 4, 1, 0; 2014 OC<sub>233</sub>, 12, 3, 567; 2014 OX<sub>233</sub>, 4, 1, 0; 2014 OR<sub>234</sub>, 3, 1, 0; 2014 OS<sub>234</sub>, 4, 1, 0; 2014 OW<sub>234</sub>, 4, 1, 0; 2014 ON<sub>235</sub>, 4, 1, 0; 2014 OG<sub>236</sub>, 8, 2, 18; 2014 OQ<sub>236</sub>, 18, 5, 2254; 2014 OX<sub>236</sub>, 32, 8, 2275; 2014 OB<sub>237</sub>, 4, 1, 0; 2014 OM<sub>237</sub>, 4, 1, 0; 2014 OP<sub>237</sub>, 4, 1, 0; 2014 OQ<sub>237</sub>, 8, 2, 2665; 2014 OF<sub>238</sub>, 3, 1, 0; 2014 OT<sub>238</sub>, 4, 1, 0; 2014 OV<sub>238</sub>, 24, 6, 1882; 2014 OM<sub>239</sub>, 8, 2, 1834; 2014 OQ<sub>239</sub>, 4, 1, 0; 2014 OY<sub>239</sub>, 8, 2, 1385; 2014 OB<sub>240</sub>, 16, 3, 1833; 2014 OC<sub>240</sub>, 12, 3, 28; 2014 OD<sub>240</sub>, 4, 1, 0; 2014 OF<sub>240</sub>, 8, 2, 9; 2014 OR<sub>240</sub>, 16, 4, 2358; 2014 OT<sub>240</sub>, 12, 3, 1533; 2014 OY<sub>240</sub>, 3, 1, 0; 2014 OH<sub>241</sub>, 4, 1, 0; 2014 OM<sub>241</sub>, 4, 1, 0; 2014 OX<sub>241</sub>, 16, 3, 484; 2014 OH<sub>242</sub>, 4, 1, 0; 2014 OC<sub>243</sub>, 12, 3, 1809; 2014 OL<sub>243</sub>, 16, 4, 2045; 2014 OF<sub>245</sub>, 12, 3, 889; 2014 OE<sub>247</sub>, 4, 1, 0; 2014 OE<sub>248</sub>, 4, 1, 0; 2014 OF<sub>251</sub>, 12, 3, 1923; 2014 OP<sub>253</sub>, 12, 3, 862; 2014 OR<sub>253</sub>, 4, 1, 0; 2014 OC<sub>254</sub>, 8, 2, 905; 2014 OH<sub>254</sub>, 12, 3, 2719; 2014 OF<sub>259</sub>, 4, 1, 0; 2014 OH<sub>259</sub>, 8, 2, 888; 2014 OE<sub>263</sub>, 4, 1, 0; 2014 OO<sub>263</sub>, 3, 1, 0; 2014 OS<sub>263</sub>, 4, 1, 0; 2014 OH<sub>264</sub>, 4, 1, 0; 2014 OX<sub>264</sub>, 4, 1, 0; 2014 OT<sub>269</sub>, 4, 1, 0; 2014 OJ<sub>272</sub>, 16, 4, 1906; 2014 ON<sub>274</sub>, 4, 1, 0; 2014 OF<sub>275</sub>, 4, 1, 0; 2014 OT<sub>276</sub>, 12, 3, 1876; 2014 OW<sub>276</sub>, 8, 2, 29; 2014 OB<sub>277</sub>, 8, 2, 10; 2014 OC<sub>277</sub>, 8, 2, 919; 2014 OE<sub>277</sub>, 7, 2, 1033; 2014 OL<sub>277</sub>, 4, 1, 0; 2014 ON<sub>277</sub>, 8, 2, 474; 2014 OQ<sub>279</sub>, 11, 3, 1045; 2014 OT<sub>279</sub>, 8, 2, 910; 2014 OD<sub>280</sub>, 16, 3, 1784; 2014 OZ<sub>280</sub>, 12, 3, 1798; 2014 OX<sub>281</sub>, 11, 3, 833; 2014 OM<sub>282</sub>, 4, 1, 0; 2014 OO<sub>282</sub>, 4, 1, 0; 2014 OR<sub>282</sub>, 4, 1, 0; 2014 OC<sub>285</sub>, 4, 1, 0; 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2014 OS<sub>341</sub>, 12, 3, 1915; 2014 OE<sub>342</sub>, 4, 1, 0; 2014 OH<sub>342</sub>, 8, 2, 1838; 2014 OK<sub>342</sub>, 8, 2, 1864; 2014 OX<sub>342</sub>, 4, 1, 0; 2014 OM<sub>343</sub>, 12, 3, 469; 2014 ON<sub>343</sub>, 31, 7, 1857; 2014 OT<sub>343</sub>, 2, 1, 0; 2014 OU<sub>343</sub>, 4, 1, 0; 2014 OC<sub>343</sub>, 4, 1, 0; 2014 OA<sub>344</sub>, 15, 4, 2210; 2014 OE<sub>344</sub>, 3, 1, 0; 2014 OG<sub>344</sub>, 3, 1, 0; 2014 OH<sub>344</sub>, 4, 1, 0; 2014 OJ<sub>344</sub>, 8, 2, 3; 2014 OC<sub>345</sub>, 4, 1, 0; 2014 OR<sub>345</sub>, 8, 2, 11; 2014 OU<sub>345</sub>, 15, 4, 60; 2014 OX<sub>345</sub>, 4, 1, 0; 2014 OR<sub>349</sub>, 20, 5, 2683; 2014 OY<sub>349</sub>, 8, 2, 1454; 2014 OJ<sub>350</sub>, 4, 1, 0; 2014 ON<sub>350</sub>, 4, 1, 0; 2014 ON<sub>351</sub>, 8, 2, 22; 2014 OO<sub>352</sub>, 3, 1, 0; 2014 OZ<sub>352</sub>, 4, 1, 0; 2014 OJ<sub>353</sub>, 4, 1, 0; 2014 OS<sub>353</sub>, 4, 1, 0; 2014 OY<sub>354</sub>, 3, 1, 0; 2014 OH<sub>355</sub>, 4, 1, 0; 2014 OR<sub>355</sub>, 4, 1, 0; 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4, 1, 0; 2014 OU<sub>358</sub>, 7, 2, 72; 2014 OX<sub>358</sub>, 4, 1, 0; 2014 OA<sub>359</sub>, 4, 1, 0; 2014 OB<sub>359</sub>, 4, 1, 0; 2014 OE<sub>359</sub>, 4, 1, 0; 2014 OL<sub>359</sub>, 8, 2, 2; 2014 OS<sub>359</sub>, 4, 1, 0; 2014 OY<sub>359</sub>, 8, 2, 3; 2014 OB<sub>360</sub>, 4, 1, 0; 2014 OD<sub>360</sub>, 4, 1, 0; 2014 OK<sub>360</sub>, 4, 1, 0; 2014 OM<sub>360</sub>, 4, 1, 0; 2014 OO<sub>360</sub>, 4, 1, 0; 2014 OS<sub>360</sub>, 4, 1, 0; 2014 OT<sub>360</sub>, 4, 1, 0; 2014 OU<sub>360</sub>, 4, 1, 0; 2014 OV<sub>360</sub>, 4, 1, 0; 2014 OX<sub>360</sub>, 8, 2, 2; 2014 OY<sub>360</sub>, 4, 1, 0; 2014 OH<sub>361</sub>, 4, 1, 0; 2014 OZ<sub>362</sub>, 4, 1, 0; 2014 ON<sub>363</sub>, 4, 1, 0; 2014 OZ<sub>364</sub>, 4, 1, 0; 2014 OV<sub>365</sub>, 4, 1, 0; 2014 OW<sub>365</sub>, 4, 1, 0; 2014 OB<sub>367</sub>, 4, 1, 0; 2014 OC<sub>367</sub>, 4, 1, 0; 2014 OD<sub>367</sub>, 4, 1, 0; 2014 OR<sub>367</sub>, 4, 1, 0; 2014 OY<sub>370</sub>, 12, 2, 69; 2014 OQ<sub>372</sub>, 16, 4, 2758; 2014 OA<sub>373</sub>, 4, 1, 0; 2014 OE<sub>373</sub>, 4, 1, 0; 2014 OM<sub>373</sub>, 4, 1, 0; 2014 OE<sub>375</sub>, 4, 1, 0; 2014 OL<sub>375</sub>, 4, 1, 0; 2014 OZ<sub>375</sub>, 4, 1, 0; 2014 ON<sub>376</sub>, 4, 1, 0; 2014 ON<sub>377</sub>, 3, 1, 0; 2014 OC<sub>378</sub>, 8, 2, 1; 2014 OT<sub>378</sub>, 4, 1, 0; 2014 OU<sub>378</sub>, 8, 2, 68; 2014 OV<sub>378</sub>, 8, 1, 0; 2014 OK<sub>379</sub>, 4, 1, 0; 2014 OV<sub>379</sub>, 4, 1, 0; 2014 OZ<sub>379</sub>, 4, 1, 0; 2014 OJ<sub>380</sub>, 4, 1, 0; 2014 OF<sub>381</sub>, 4, 1, 0; 2014 OG<sub>382</sub>, 4, 1, 0; 2014 OC<sub>384</sub>, 6, 2, 3; 2014 OD<sub>384</sub>, 4, 1, 0; 2014 OG<sub>384</sub>, 4, 1, 0; 2014 OY<sub>385</sub>, 4, 1, 0; 2014 OV<sub>385</sub>, 4, 1, 0; 2014 OY<sub>385</sub>, 3, 1, 0; 2014 OZ<sub>385</sub>, 7, 2, 22; 2014 OA<sub>386</sub>, 4, 1, 0; 2014 OJ<sub>386</sub>, 4, 1, 0; 2014 OK<sub>386</sub>, 4, 1, 0; 2014 ON<sub>386</sub>, 3, 1, 0; 2014 OS<sub>386</sub>, 4, 1, 0; 2014 OU<sub>386</sub>, 4, 1, 0; 2014 OV<sub>386</sub>, 4, 1, 0; 2014 OX<sub>386</sub>, 11, 3, 91; 2014 OB<sub>387</sub>, 4, 1, 0; 2014 OC<sub>387</sub>, 4, 1, 0; 2014 OW<sub>387</sub>, 4, 1, 0; 2014 OA<sub>388</sub>, 4, 1, 0; 2014 OF<sub>388</sub>, 4, 1, 0; 2014 OX<sub>388</sub>, 4, 1, 0; 2014 OY<sub>388</sub>, 12, 3, 2; 2014 OH<sub>389</sub>, 4, 1, 0; 2014 OF<sub>389</sub>, 4, 1, 0; 2014 OR<sub>390</sub>, 4, 1, 0; 2014 OS<sub>390</sub>, 4, 1, 0; 2014 OW<sub>390</sub>, 4, 1, 0; 2014 OX<sub>390</sub>, 4, 1, 0; 2014 OY<sub>390</sub>, 7, 1, 0; 2014 OF<sub>391</sub>, 4, 1, 0; 2014 OS<sub>391</sub>, 4, 1, 0; 2014 OW<sub>391</sub>, 8, 2, 1471; 2014 OW<sub>392</sub>, 4, 1, 0; 2014 PA<sub>1</sub>, 8, 2, 587; 2014 PF<sub>1</sub>, 4, 1, 0; 2014 PO<sub>1</sub>, 7, 2, 65; 2014 PA<sub>1</sub>, 19, 4, 852; 2014 PB<sub>1</sub>, 4, 1, 0; 2014 PG<sub>1</sub>, 4, 1, 0; 2014 PH<sub>1</sub>, 8, 2, 505; 2014 PM<sub>1</sub>, 4, 1, 0; 2014 PY<sub>1</sub>, 8, 2, 495; 2014 PB<sub>2</sub>, 4, 1, 0; 2014 PC<sub>2</sub>, 4, 1, 0; 2014 PN<sub>2</sub>, 4, 1, 0; 2014 PY<sub>2</sub>, 8, 2, 2418; 2014 PK<sub>3</sub>, 8, 2, 71; 2014 PR<sub>3</sub>, 8, 2, 830; 2014 PS<sub>3</sub>, 24, 6, 2930; 2014 PV<sub>3</sub>, 4, 1, 0; 2014 PH<sub>5</sub>, 24, 5, 2607; 2014 PX<sub>5</sub>, 4, 1, 0; 2014 PJ<sub>6</sub>, 7, 2, 89; 2014 PL<sub>6</sub>, 20, 5, 1901; 2014 PM<sub>6</sub>, 12, 3, 95; 2014 PN<sub>6</sub>, 4, 1, 0; 2014 PO<sub>6</sub>, 4, 1, 0; 2014 PQ<sub>6</sub>, 4, 1, 0; 2014 PS<sub>6</sub>, 12, 3, 2279; 2014 PW<sub>6</sub>, 4, 1, 0; 2014 PY<sub>6</sub>, 15, 3, 2; 2014 PZ<sub>6</sub>, 12, 3, 2; 2014 PA<sub>7</sub>, 11, 2, 2; 2014 PB<sub>7</sub>, 4, 1, 0; 2014 PE<sub>7</sub>, 4, 1, 0; 2014 PG<sub>7</sub>, 19, 5, 1401; 2014 PK<sub>7</sub>, 4, 1, 0; 2014 PL<sub>7</sub>, 19, 5, 1393; 2014 PO<sub>7</sub>, 12, 3, 1395; 2014 PV<sub>7</sub>, 3, 1, 0; 2014 PX<sub>7</sub>, 4, 1, 0; 2014 PY<sub>7</sub>, 8, 2, 26; 2014 PN<sub>8</sub>, 4, 1, 0; 2014 PT<sub>8</sub>, 12, 3, 1429; 2014 PW<sub>8</sub>, 4, 1, 0; 2014 PZ<sub>8</sub>, 4, 1, 0; 2014 PC<sub>9</sub>, 8, 2, 1347; 2014 PZ<sub>9</sub>, 4, 1, 0; 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8, 2, 70; 2014 PT<sub>37</sub>, 24, 6, 2772; 2014 PW<sub>37</sub>, 4, 1, 0; 2014 PG<sub>38</sub>, 23, 2, 450; 2014 PS<sub>38</sub>, 4, 1, 0; 2014 PW<sub>38</sub>, 4, 1, 0; 2014 PB<sub>39</sub>, 4, 1, 0; 2014 PC<sub>39</sub>, 4, 1, 0; 2014 PD<sub>39</sub>, 4, 1, 0; 2014 PE<sub>39</sub>, 12, 3, 973; 2014 PF<sub>39</sub>, 3, 1, 0; 2014 PG<sub>39</sub>, 4, 1, 0; 2014 PK<sub>39</sub>, 3, 1, 0; 2014 PM<sub>39</sub>, 4, 1, 0; 2014 PN<sub>39</sub>, 8, 2, 549; 2014 PO<sub>39</sub>, 4, 1, 0; 2014 PQ<sub>39</sub>, 19, 5, 2745; 2014 PR<sub>39</sub>, 4, 1, 0; 2014 PV<sub>39</sub>, 4, 1, 0; 2014 PX<sub>39</sub>, 4, 1, 0; 2014 PZ<sub>39</sub>, 4, 1, 0; 2014 PA<sub>40</sub>, 3, 1, 0; 2014 PC<sub>40</sub>, 4, 1, 0; 2014 PD<sub>40</sub>, 3, 1, 0; 2014 PE<sub>40</sub>, 4, 1, 0; 2014 PF<sub>40</sub>, 8, 2, 1; 2014 PJ<sub>40</sub>, 4, 1, 0; 2014 PL<sub>40</sub>, 4, 1, 0; 2014 PO<sub>40</sub>, 4, 1, 0; 2014 PP<sub>40</sub>, 4, 1, 0; 2014 PR<sub>40</sub>, 4, 1, 0; 2014 PU<sub>40</sub>, 4, 1, 0; 2014 PV<sub>40</sub>, 4, 1, 0; 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2014 QS<sub>135</sub>, 4, 1, 0; 2014 QU<sub>135</sub>, 4, 1, 0; 2014 QX<sub>135</sub>, 4, 1, 0; 2014 QY<sub>135</sub>, 4, 1, 0; 2014 QZ<sub>135</sub>, 4, 1, 0; 2014 QA<sub>136</sub>, 4, 1, 0; 2014 QF<sub>136</sub>, 4, 1, 0; 2014 QJ<sub>136</sub>, 4, 1, 0; 2014 QP<sub>136</sub>, 4, 1, 0; 2014 QR<sub>136</sub>, 4, 1, 0; 2014 QV<sub>136</sub>, 4, 1, 0; 2014 QW<sub>136</sub>, 4, 1, 0; 2014 QX<sub>136</sub>, 4, 1, 0; 2014 QZ<sub>136</sub>, 4, 1, 0; 2014 QA<sub>137</sub>, 4, 1, 0; 2014 QC<sub>137</sub>, 4, 1, 0; 2014 QD<sub>137</sub>, 12, 3, 70; 2014 QE<sub>137</sub>, 4, 1, 0; 2014 QJ<sub>137</sub>, 4, 1, 0; 2014 QK<sub>137</sub>, 3, 1, 0; 2014 QP<sub>137</sub>, 7, 2, 68; 2014 QQ<sub>137</sub>, 4, 1, 0; 2014 QS<sub>137</sub>, 4, 1, 0; 2014 QT<sub>137</sub>, 4, 1, 0; 2014 QU<sub>137</sub>, 4, 1, 0; 2014 QZ<sub>137</sub>, 4, 1, 0



1, 0; 2014 QY<sub>172</sub>, 18, 4, 3; 2014 QZ<sub>172</sub>, 11, 2, 1; 2014 QK<sub>173</sub>, 4, 1, 0; 2014 QL<sub>173</sub>, 4, 1, 0; 2014 QC<sub>174</sub>, 3, 1, 0; 2014 QD<sub>174</sub>, 4, 1, 0; 2014 QE<sub>174</sub>, 7, 2, 1; 2014 QL<sub>174</sub>, 8, 2, 2; 2014 QM<sub>174</sub>, 8, 2, 1; 2014 QO<sub>174</sub>, 4, 1, 0; 2014 QP<sub>174</sub>, 4, 1, 0; 2014 QQ<sub>174</sub>, 4, 1, 0; 2014 QR<sub>174</sub>, 3, 1, 0; 2014 QS<sub>174</sub>, 4, 1, 0; 2014 QT<sub>174</sub>, 12, 2, 1; 2014 QW<sub>174</sub>, 3, 1, 0; 2014 QY<sub>174</sub>, 4, 1, 0; 2014 QK<sub>175</sub>, 4, 1, 0; 2014 QL<sub>175</sub>, 4, 1, 0; 2014 QP<sub>175</sub>, 4, 1, 0; 2014 QS<sub>175</sub>, 3, 1, 0; 2014 QU<sub>175</sub>, 4, 1, 0; 2014 QX<sub>175</sub>, 7, 2, 68; 2014 QA<sub>176</sub>, 4, 1, 0; 2014 QD<sub>176</sub>, 4, 1, 0; 2014 QE<sub>176</sub>, 4, 1, 0; 2014 QG<sub>176</sub>, 4, 1, 0; 2014 QJ<sub>176</sub>, 4, 1, 0; 2014 QL<sub>176</sub>, 4, 1, 0; 2014 QM<sub>176</sub>, 8, 2, 2; 2014 QO<sub>176</sub>, 4, 1, 0; 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2014 QF<sub>188</sub>, 4, 1, 0; 2014 QH<sub>188</sub>, 4, 1, 0; 2014 QK<sub>188</sub>, 4, 1, 0; 2014 QN<sub>188</sub>, 4, 1, 0; 2014 QO<sub>188</sub>, 4, 1, 0; 2014 QS<sub>188</sub>, 4, 1, 0; 2014 QU<sub>188</sub>, 3, 1, 0; 2014 QX<sub>188</sub>, 4, 1, 0; 2014 QA<sub>189</sub>, 4, 1, 0; 2014 QF<sub>189</sub>, 4, 1, 0; 2014 QH<sub>189</sub>, 4, 1, 0; 2014 QP<sub>189</sub>, 4, 1, 0; 2014 QS<sub>189</sub>, 4, 1, 0; 2014 QW<sub>189</sub>, 8, 1, 0; 2014 QC<sub>194</sub>, 4, 1, 0; 2014 QH<sub>194</sub>, 3, 1, 0; 2014 QL<sub>194</sub>, 8, 1, 0; 2014 QH<sub>199</sub>, 4, 1, 0; 2014 QF<sub>200</sub>, 8, 2, 72; 2014 QX<sub>200</sub>, 8, 2, 4; 2014 QD<sub>201</sub>, 8, 1, 0; 2014 QG<sub>201</sub>, 4, 1, 0; 2014 QK<sub>201</sub>, 8, 1, 0; 2014 QL<sub>201</sub>, 4, 1, 0; 2014 QM<sub>201</sub>, 8, 2, 4; 2014 QN<sub>201</sub>, 8, 2, 4; 2014 QS<sub>201</sub>, 4, 1, 0; 2014 QW<sub>201</sub>, 2, 1, 0; 2014 QA<sub>202</sub>, 8, 2, 4; 2014 QB<sub>202</sub>, 8, 2, 2; 2014 QD<sub>202</sub>, 4, 1, 0; 2014 QJ<sub>202</sub>, 4, 1, 0; 2014 QB<sub>203</sub>, 4, 1, 0; 2014 QN<sub>203</sub>, 4, 1, 0; 2014 QS<sub>203</sub>, 3, 1, 0; 2014 QD<sub>204</sub>, 4, 1, 0; 2014 QF<sub>204</sub>, 4, 1, 0; 2014 QO<sub>204</sub>, 4, 1, 0; 2014 QQ<sub>204</sub>, 4, 1, 0; 2014 QS<sub>204</sub>, 4, 1, 0; 2014 QA<sub>205</sub>, 4, 1, 0; 2014 QC<sub>205</sub>, 8, 2, 7; 2014 QE<sub>205</sub>, 8, 2, 3; 2014 QF<sub>205</sub>, 8, 2, 4; 2014 QG<sub>205</sub>, 4, 1, 0; 2014 QJ<sub>205</sub>, 12, 3, 7; 2014 QK<sub>205</sub>, 13, 3, 7; 2014 QL<sub>205</sub>, 16, 3, 4; 2014 QM<sub>205</sub>, 4, 1, 0; 2014 QN<sub>205</sub>, 12, 2, 2; 2014 QO<sub>205</sub>, 12, 2, 2; 2014 QR<sub>205</sub>, 12, 3, 4; 2014 QS<sub>205</sub>, 11, 2, 2; 2014 QT<sub>205</sub>, 4, 1, 0; 2014 QU<sub>205</sub>, 4, 1, 0; 2014 QV<sub>205</sub>, 4, 1, 0; 2014 QW<sub>205</sub>, 8, 2, 2; 2014 QX<sub>205</sub>, 3, 1, 0; 2014 QE<sub>206</sub>, 4, 1, 0; 2014 QF<sub>206</sub>, 4, 1, 0; 2014 QG<sub>206</sub>, 4, 1, 0; 2014 QH<sub>206</sub>, 4, 1, 0; 2014 QJ<sub>206</sub>, 4, 1, 0; 2014 QK<sub>206</sub>, 4, 1, 0; 2014 QV<sub>206</sub>, 4, 1, 0; 2014 QX<sub>206</sub>, 4, 1, 0; 2014 QY<sub>206</sub>, 4, 1, 0; 2014 QC<sub>207</sub>, 4, 1, 0; 2014 QD<sub>207</sub>, 8, 2, 4; 2014 QF<sub>207</sub>, 12, 2, 4; 2014 QH<sub>207</sub>, 4, 1, 0; 2014 QJ<sub>207</sub>, 7, 1, 0; 2014 QK<sub>207</sub>, 4, 1, 0; 2014 QL<sub>207</sub>, 4, 1, 0; 2014 QN<sub>207</sub>, 4, 1, 0; 2014 QO<sub>207</sub>, 8, 2, 4; 2014 QP<sub>207</sub>, 4, 1, 0; 2014 QT<sub>207</sub>, 4, 1, 0; 2014 QV<sub>207</sub>, 7, 2, 4; 2014 QY<sub>207</sub>, 4, 1, 0; 2014 QZ<sub>207</sub>, 4, 1, 0; 2014 QC<sub>208</sub>, 8, 2, 4; 2014 QF<sub>208</sub>, 4, 1, 0; 2014 QG<sub>208</sub>, 4, 1, 0; 2014 QH<sub>208</sub>, 4, 1, 0; 2014 QJ<sub>208</sub>, 4, 1, 0; 2014 QK<sub>208</sub>, 3, 1, 0; 2014 QY<sub>208</sub>, 4, 1, 0; 2014 QA<sub>209</sub>, 4, 1, 0; 2014 QF<sub>209</sub>, 4, 1, 0; 2014 QG<sub>209</sub>, 4, 1, 0; 2014 QJ<sub>209</sub>, 3, 1, 0; 2014 QP<sub>209</sub>, 3, 1, 0; 2014 QT<sub>209</sub>, 4, 1, 0; 2014 QV<sub>209</sub>, 3, 1, 0; 2014 QK<sub>210</sub>, 4, 1, 0; 2014 QL<sub>210</sub>, 4, 1, 0; 2014 QO<sub>210</sub>, 4, 1, 0; 2014 QX<sub>210</sub>, 4, 1, 0; 2014 QA<sub>211</sub>, 4, 1, 0; 2014 QG<sub>211</sub>, 4, 1, 0; 2014 QM<sub>211</sub>, 4, 1, 0;

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2, 1, 0; 2014 QM<sub>387</sub> \*, 1, 0; 2014 QN<sub>387</sub> \*, 12, 3, 2; 2014 QO<sub>387</sub> \*, 7, 2, 1; 2014 QP<sub>387</sub> \*, 7, 2, 1; 2014 QQ<sub>387</sub> \*, 8, 2, 1; 2014 QR<sub>387</sub> \*, 8, 2, 1; 2014 QS<sub>387</sub> \*, 8, 2, 1; 2014 QT<sub>387</sub> \*, 4, 1, 0; 2014 QU<sub>387</sub> \*, 7, 2, 1; 2014 QV<sub>387</sub> \*, 8, 2, 1; 2014 QW<sub>387</sub> \*, 16, 3, 2; 2014 QX<sub>387</sub> \*, 12, 3, 2; 2014 QY<sub>387</sub> \*, 8, 2, 1; 2014 QZ<sub>387</sub> \*, 12, 2, 1; 2014 QA<sub>388</sub> \*, 8, 2, 1; 2014 QB<sub>388</sub> \*, 8, 2, 1; 2014 QC<sub>388</sub> \*, 12, 3, 2; 2014 QD<sub>388</sub> \*, 8, 2, 1; 2014 QE<sub>388</sub> \*, 16, 3, 2; 2014 QF<sub>388</sub> \*, 16, 3, 2; 2014 QG<sub>388</sub> \*, 12, 2, 1; 2014 QH<sub>388</sub> \*, 12, 3, 2; 2014 QI<sub>388</sub> \*, 7, 2, 1; 2014 QJ<sub>388</sub> \*, 8, 2, 1; 2014 QK<sub>388</sub> \*, 8, 2, 1; 2014 QL<sub>388</sub> \*, 8, 2, 1; 2014 QM<sub>388</sub> \*, 8, 2, 1; 2014 QN<sub>388</sub> \*, 8, 2, 1; 2014 QO<sub>388</sub> \*, 15, 2, 1; 2014 QP<sub>388</sub> \*, 20, 3, 2; 2014 QQ<sub>388</sub> \*, 7, 2, 1; 2014 QR<sub>388</sub> \*, 16, 3, 2; 2014 QS<sub>388</sub> \*, 8, 2, 1; 2014 QT<sub>388</sub> \*, 7, 2, 1; 2014 QU<sub>388</sub> \*, 4, 1, 0; 2014 QV<sub>388</sub> \*, 11, 2, 1; 2014 QW<sub>388</sub> \*, 12, 2, 1; 2014 QX<sub>388</sub> \*, 12, 2, 1; 2014 QY<sub>388</sub> \*, 12, 2, 1; 2014 QZ<sub>388</sub> \*, 12, 2, 1; 2014 QA<sub>389</sub> \*, 11, 2, 1; 2014 QB<sub>389</sub> \*, 12, 2, 1; 2014 QC<sub>389</sub> \*, 7, 2, 1; 2014 QD<sub>389</sub> \*, 12, 3, 4; 2014 QE<sub>389</sub> \*, 7, 2, 1; 2014 QF<sub>389</sub> \*, 16, 3, 4; 2014 QG<sub>389</sub> \*, 8, 2, 1; 2014 QH<sub>389</sub> \*, 15, 3, 2; 2014 QI<sub>389</sub> \*, 8, 2, 1; 2014 QJ<sub>389</sub> \*, 8, 2, 1; 2014 QK<sub>389</sub> \*, 8, 2, 1; 2014 QL<sub>389</sub> \*, 16, 3, 4; 2014 QM<sub>389</sub> \*, 8, 2, 1; 2014 QN<sub>389</sub> \*, 7, 2, 1; 2014 QO<sub>389</sub> \*, 12, 2, 1; 2014 QP<sub>389</sub> \*, 4, 1, 0; 2014 QV<sub>389</sub> \*, 4, 1, 0; 2014 QW<sub>389</sub> \*, 4, 1, 0; 2014 QX<sub>389</sub> \*, 8, 2, 1; 2014 QY<sub>389</sub> \*, 12, 2, 1; 2014 QZ<sub>389</sub> \*, 12, 2, 1; 2014 QA<sub>390</sub> \*, 12, 2, 1; 2014 QB<sub>390</sub> \*, 8, 2, 1; 2014 QC<sub>390</sub> \*, 4, 1, 0; 2014 QD<sub>390</sub> \*, 4, 1, 0; 2014 QM<sub>390</sub> \*, 15, 2, 1; 2014 QO<sub>390</sub> \*, 9, 2, 1; 2014 QQ<sub>390</sub> \*, 19, 4, 5; 2014 QR<sub>390</sub> \*, 8, 2, 3; 2014 QC<sub>391</sub> \*, 7, 1, 0; 2014 QE<sub>391</sub> \*, 14, 3, 4; 2014 QU<sub>391</sub> \*, 4, 1, 0; 2014 QD<sub>392</sub> \*, 4, 1, 0; 2014 QN<sub>392</sub> \*, 4, 1, 0; 2014 QO<sub>392</sub> \*, 4, 1, 0; 2014 QP<sub>392</sub> \*, 4, 1, 0; 2014 QQ<sub>392</sub> \*, 4, 1, 0; 2014 QR<sub>392</sub> \*, 4, 1, 0; 2014 QS<sub>392</sub> \*, 4, 1, 0; 2014 QT<sub>392</sub> \*, 11, 2, 1; 2014 QY<sub>392</sub> \*, 4, 1, 0; 2014 QZ<sub>392</sub> \*, 4, 1, 0; 2014 QB<sub>393</sub> \*, 4, 1, 0; 2014 QK<sub>393</sub> \*, 4, 1, 0; 2014 QL<sub>393</sub> \*, 4, 1, 0; 2014 QL<sub>394</sub> \*, 4, 1, 0; 2014 QM<sub>394</sub> \*, 4, 1, 0; 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2014 QA<sub>401</sub> \*, 4, 1, 0; 2014 QB<sub>401</sub> \*, 4, 1, 0; 2014 QC<sub>401</sub> \*, 4, 1, 0; 2014 QD<sub>401</sub> \*, 4, 1, 0; 2014 QE<sub>401</sub> \*, 4, 1, 0; 2014 QG<sub>401</sub> \*, 4, 1, 0; 2014 QH<sub>401</sub> \*, 4, 1, 0; 2014 QI<sub>401</sub> \*, 4, 1, 0; 2014 QJ<sub>401</sub> \*, 4, 1, 0; 2014 QK<sub>401</sub> \*, 4, 1, 0; 2014 QL<sub>401</sub> \*, 4, 1, 0; 2014 QM<sub>401</sub> \*, 4, 1, 0; 2014 QN<sub>401</sub> \*, 4, 1, 0; 2014 QO<sub>401</sub> \*, 4, 1, 0; 2014 QP<sub>401</sub> \*, 4, 1, 0; 2014 QV<sub>401</sub> \*, 4, 1, 0; 2014 QW<sub>401</sub> \*, 4, 1, 0; 2014 QX<sub>401</sub> \*, 4, 1, 0; 2014 QY<sub>401</sub> \*, 4, 1, 0; 2014 QZ<sub>401</sub> \*, 4, 1, 0; 2014 QA<sub>402</sub> \*, 4, 1, 0; 2014 QB<sub>402</sub> \*, 4, 1, 0; 2014 QC<sub>402</sub> \*, 4, 1, 0; 2014 QD<sub>402</sub> \*, 4, 1, 0; 2014 QM<sub>402</sub> \*, 4, 1, 0; 2014 QN<sub>402</sub> \*, 4, 1, 0; 2014 QO<sub>402</sub> \*, 4, 1, 0; 2014 QP<sub>402</sub> \*, 4, 1, 0; 2014 QR<sub>402</sub> \*, 4, 1, 0; 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(404300), 4, 1, 0; (404301), 4, 1, 0; (404303), 4, 1, 0; (404319), 3, 1, 0; (404338), 4, 1, 0; (404341), 4, 1, 0; (404349), 4, 1, 0; (404358), 4, 1, 0; (404360), 4, 1, 0; (404365), 4, 1, 0; (404374), 4, 1, 0; (404381), 4, 1, 0; (404399), 4, 1, 0; (404402), 4, 1, 0; (404411), 4, 1, 0; (404420), 4, 1, 0; (404421), 8, 1, 0; (404425), 4, 1, 0; (404426), 3, 1, 0; (404427), 4, 1, 0; (404428), 4, 1, 0; (404437), 4, 1, 0; (404438), 4, 1, 0; (404445), 4, 1, 0; (404446), 4, 1, 0; (404450), 4, 1, 0; (404451), 4, 1, 0; (404455), 4, 1, 0; (404457), 4, 1, 0; (404462), 4, 1, 0; (404465), 4, 1, 0; (404480), 8, 1, 0; (404481), 4, 1, 0; (404483), 4, 1, 0; (404484), 4, 1, 0; (404491), 4, 1, 0; (404515), 4, 1, 0; (404527), 7, 2, 1; (404541), 4, 1, 0; (404550), 4, 1, 0; (404559), 8, 2, 1; (404562), 4, 1, 0; (404569), 5, 1, 0; (404570), 3, 1, 0; (404572), 4, 1, 0; (404576), 4, 1, 0; (404578), 4, 1, 0; (404580), 4, 1, 0; (404581), 4, 1, 0; (404731), 2, 1, 0; (404748), 3, 1, 0; (404903), 4, 1, 0; (404908), 7, 2, 2; (404942), 7, 2, 2; [110012, 21505, 580\*, 2004/10/15–2014/09/06]

### G98 Calvin-Rehoboth Observatory, Rehoboth

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

0.4-m  $f/8$  Ritchey-Chrétien + CCD +  $f/5.2$  focal reducer  
USNO-A2.0

2010 VM<sub>13</sub>, 11, 2, 3; 2014 NB<sub>38</sub>, 26, 2, 3; (14068), 15, 1, 0; [52, 3, 0\*, 2014/08/29–2014/09/01]

### H06 iTelescope Observatory, Mayhill

N. Falla, 34 Orchard Road, Chessington, Surrey KT9 1AN, England  
[n.falla@btopenworld.com] (20)

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

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[mail@betty-lau.com] (55)

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

Observers P. S. Lau, H. Sato, S. M. Tilley, E. Guido, N. Howes, M. Nicolini,  
N. Paul, M. Suzuki

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

UCAC-4, NOMAD, UCAC-3

{20} 2014 LT<sub>8</sub>, 3, 1, 0; [3, 1, 0\*, 2011/10/26]

{55} (1047), 4, 1, 0; (1973), 3, 1, 0; (3776), 3, 1, 0; (4689), 3, 1, 0; (11092), 3, 1, 0; (33676), 5, 2, 1; (34637), 4, 1, 0; (43264), 3, 1, 0; (44185), 3, 1, 0; (54745), 3, 1, 0; (55302), 4, 1, 0; (62003), 3, 1, 0; (67456), 3, 1, 0; (68240), 3, 1, 0; (80262), 3, 1, 0; (97403), 5, 2, 1; (111169), 3, 1, 0; (122328), 3, 1, 0; (135021), 3, 1, 0; (153114), 5, 2, 1; (160411), 3, 1, 0; [72, 21, 0\*, 2014/07/26–2014/09/01]

{58} 2014 PT<sub>59</sub>, 3, 1, 0; (20843), 3, 1, 0; (61183), 3, 1, 0; (79804), 3, 1, 0; [12, 4, 0\*, 2014/08/19]

{32} 2014 RP, 3, 1, 0; [3, 1, 0\*, 2014/09/04]

### H15 ISON-NM Observatory, Mayhill

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

Observer L. Elenin

Measurers L. Elenin, V. Savanevych, A. Bryukhovetskiy

0.4-m  $f/3$  reflector + CCD

UCAC-4

2000 QX<sub>160</sub>, 4, 1, 0; 2001 QP<sub>127</sub>, 4, 1, 0; 2001 QH<sub>185</sub>, 4, 1, 0; 2001 QZ<sub>251</sub>, 3, 1, 0; 2001 QM<sub>268</sub>, 3, 1, 0; 2001 SX<sub>76</sub>, 4, 1, 0; 2001 SC<sub>85</sub>, 4, 1, 0; 2001 SS<sub>172</sub>, 4, 1, 0; 2001 SX<sub>179</sub>, 4, 1, 0; 2001 UO<sub>204</sub>, 4, 1, 0; 2001 UO<sub>226</sub>, 4, 1, 0; 2002 JV<sub>17</sub>, 3, 1, 0; 2002 PJ<sub>177</sub>, 4, 1, 0; 2002 VM<sub>106</sub>, 3, 1, 0; 2003 DW<sub>21</sub>, 4, 1, 0; 2003 MB<sub>2</sub>, 4, 1, 0; 2003 QV<sub>15</sub>, 4, 1, 0; 2003 QW<sub>66</sub>, 4, 1, 0; 2003 QA<sub>82</sub>, 4, 1, 0; 2003 SW<sub>33</sub>, 3, 1, 0; 2003 SG<sub>202</sub>, 4, 1, 0; 2003 SD<sub>206</sub>, 4, 1, 0; 2003 UU<sub>164</sub>, 3, 1, 0; 2003 UH<sub>328</sub>, 4, 1, 0; 2003 WL<sub>27</sub>, 4, 1, 0; 2003 WB<sub>44</sub>, 4, 1, 0; 2003 WN<sub>63</sub>, 3, 1, 0; 2004 LJ<sub>28</sub>, 4, 1, 0; 2004 PE<sub>88</sub>, 4, 1, 0; 2004 RX<sub>72</sub>, 3, 1, 0; 2004 RX<sub>98</sub>, 4, 1, 0; 2004 RF<sub>159</sub>, 4, 1, 0; 2004 RM<sub>162</sub>, 3, 1, 0; 2004 RB<sub>321</sub>, 4, 1, 0; 2004 RR<sub>346</sub>, 4, 1, 0; 2004 TW<sub>4</sub>, 4, 1, 0; 2004 TL<sub>117</sub>, 4, 1, 0; 2004 TG<sub>244</sub>, 4, 1, 0; 2004 XX<sub>4</sub>, 4, 1, 0; 2005 CE<sub>20</sub>, 3, 1, 0; 2005 CQ<sub>61</sub>, 4, 1, 0; 2005 EF<sub>70</sub>, 4, 1, 0; 2005 NP<sub>72</sub>, 3, 1, 0; 2005 OX<sub>6</sub>, 4, 1, 0; 2005 OH<sub>17</sub>, 4, 1, 0; 2005 QQ<sub>5</sub>, 4, 1, 0; 2005 QE<sub>17</sub>, 4, 1, 0;

2005 QU<sub>34</sub>, 3, 1, 0; 2005 QS<sub>39</sub>, 4, 1, 0; 2005 QH<sub>40</sub>, 3, 1, 0; 2005 QK<sub>106</sub>, 4, 1, 0; 2005 QF<sub>150</sub>, 4, 1, 0; 2005 QY<sub>172</sub>, 4, 1, 0; 2005 SF<sub>9</sub>, 3, 1, 0; 2005 SK<sub>16</sub>, 4, 1, 0; 2005 SC<sub>42</sub>, 4, 1, 0; 2005 SM<sub>159</sub>, 4, 1, 0; 2005 SM<sub>283</sub>, 4, 1, 0; 2005 TS<sub>68</sub>, 4, 1, 0; 2005 TJ<sub>98</sub>, 3, 1, 0; 2005 UV<sub>124</sub>, 3, 1, 0; 2005 UX<sub>250</sub>, 4, 1, 0; 2005 UH<sub>444</sub>, 4, 1, 0; 2005 WJ<sub>160</sub>, 3, 1, 0; 2005 WC<sub>211</sub>, 3, 1, 0; 2005 YE<sub>31</sub>, 7, 2, 7; 2006 AJ<sub>48</sub>, 4, 1, 0; 2006 BL<sub>71</sub>, 3, 1, 0; 2006 BG<sub>205</sub>, 3, 1, 0; 2006 DG<sub>96</sub>, 4, 1, 0; 2006 DN<sub>142</sub>, 4, 1, 0; 2006 PO<sub>32</sub>, 4, 1, 0; 2006 QL<sub>69</sub>, 3, 1, 0; 2006 RO<sub>5</sub>, 3, 1, 0; 2006 RD<sub>57</sub>, 4, 1, 0; 2006 RZ<sub>57</sub>, 4, 1, 0; 2006 SN<sub>76</sub>, 4, 1, 0; 2006 SX<sub>118</sub>, 4, 1, 0; 2006 SE<sub>343</sub>, 3, 1, 0; 2006 TK<sub>5</sub>, 4, 1, 0; 2006 TN<sub>41</sub>, 4, 1, 0; 2006 TH<sub>67</sub>, 4, 1, 0; 2006 TA<sub>99</sub>, 4, 1, 0; 2006 UX<sub>199</sub>, 4, 1, 0; 2006 VM<sub>111</sub>, 3, 1, 0; 2006 VM<sub>116</sub>, 4, 1, 0; 2006 WC<sub>40</sub>, 3, 1, 0; 2006 WW<sub>101</sub>, 4, 1, 0; 2006 WP<sub>201</sub>, 4, 1, 0; 2006 XX<sub>31</sub>, 4, 1, 0; 2007 BG<sub>12</sub>, 3, 1, 0; 2007 HG<sub>88</sub>, 3, 1, 0; 2007 PN<sub>20</sub>, 4, 1, 0; 2007 RT<sub>5</sub>, 4, 1, 0; 2007 RO<sub>60</sub>, 4, 1, 0; 2007 RM<sub>119</sub>, 4, 1, 0; 2007 RT<sub>119</sub>, 4, 1, 0; 2007 RU<sub>128</sub>, 4, 1, 0; 2007 RM<sub>310</sub>, 4, 1, 0; 2007 SD<sub>22</sub>, 3, 1, 0; 2007 TK<sub>106</sub>, 4, 1, 0; 2007 TD<sub>115</sub>, 3, 1, 0; 2007 TF<sub>160</sub>, 4, 1, 0; 2007 TL<sub>175</sub>, 4, 1, 0; 2007 TQ<sub>245</sub>, 4, 1, 0; 2007 TE<sub>430</sub>, 4, 1, 0; 2007 TL<sub>443</sub>, 4, 1, 0; 2007 UK<sub>84</sub>, 4, 1, 0; 2007 UB<sub>104</sub>, 4, 1, 0; 2007 VF<sub>7</sub>, 3, 1, 0; 2007 VU<sub>85</sub>, 3, 1, 0; 2007 VM<sub>206</sub>, 3, 1, 0; 2007 VL<sub>212</sub>, 3, 1, 0; 2007 VB<sub>238</sub>, 4, 1, 0; 2007 VX<sub>320</sub>, 3, 1, 0; 2007 XX<sub>23</sub>, 3, 1, 0; 2007 YK<sub>9</sub>, 4, 1, 0; 2007 YX<sub>53</sub>, 4, 1, 0; 2008 AH<sub>7</sub>, 3, 1, 0; 2008 AW<sub>48</sub>, 3, 1, 0; 2008 EE<sub>16</sub>, 3, 1, 0; 2008 FW<sub>95</sub>, 4, 1, 0; 2008 HV<sub>24</sub>, 3, 1, 0; 2008 RT<sub>33</sub>, 3, 1, 0; 2009 JF<sub>2</sub>, 4, 1, 0; 2009 OL<sub>6</sub>, 3, 1, 0; 2009 QX<sub>4</sub>, 4, 1, 0; 2009 QK<sub>64</sub>, 4, 1, 0; 2009 RW<sub>9</sub>, 3, 1, 0; 2009 SL<sub>20</sub>, 4, 1, 0; 2009 SM<sub>56</sub>, 3, 1, 0; 2009 SM<sub>107</sub>, 3, 1, 0; 2009 SJ<sub>199</sub>, 4, 1, 0; 2009 SF<sub>204</sub>, 3, 1, 0; 2009 SY<sub>283</sub>, 3, 1, 0; 2009 SN<sub>299</sub>, 4, 1, 0; 2009 SJ<sub>344</sub>, 4, 1, 0; 2009 SF<sub>359</sub>, 4, 1, 0; 2009 TM<sub>7</sub>, 4, 1, 0; 2009 US<sub>1</sub>, 3, 1, 0; 2009 UL<sub>71</sub>, 3, 1, 0; 2009 UG<sub>99</sub>, 4, 1, 0; 2009 UY<sub>116</sub>, 3, 1, 0; 2009 UY<sub>150</sub>, 4, 1, 0; 2009 VA<sub>2</sub>, 4, 1, 0; 2009 VF<sub>7</sub>, 3, 1, 0; 2009 VK<sub>73</sub>, 4, 1, 0; 2009 WU<sub>256</sub>, 4, 1, 0; 2010 BM<sub>55</sub>, 4, 1, 0; 2010 BW<sub>95</sub>, 4, 1, 0; 2010 GR<sub>116</sub>, 4, 1, 0; 2010 GW<sub>140</sub>, 3, 1, 0; 2010 GB<sub>157</sub>, 4, 1, 0; 2010 LA<sub>90</sub>, 4, 1, 0; 2010 NA<sub>77</sub>, 4, 1, 0; 2010 OV<sub>28</sub>, 3, 1, 0; 2010 OQ<sub>51</sub>, 4, 1, 0; 2010 OK<sub>91</sub>, 3, 1, 0; 2010 RF<sub>60</sub>, 4, 1, 0; 2010 RH<sub>127</sub>, 3, 1, 0; 2010 RQ<sub>184</sub>, 3, 1, 0; 2010 SG<sub>37</sub>, 4, 1, 0; 2010 UE<sub>10</sub>, 3, 1, 0; 2010 UO<sub>16</sub>, 3, 1, 0; 2010 UV<sub>96</sub>, 4, 1, 0; 2010 VY<sub>59</sub>, 4, 1, 0; 2010 VF<sub>70</sub>, 4, 1, 0; 2010 VM<sub>206</sub>, 3, 1, 0; 2010 WW<sub>34</sub>, 4, 1, 0; 2011 AS<sub>39</sub>, 3, 1, 0; 2011 AN<sub>51</sub>, 3, 1, 0; 2011 BQ<sub>114</sub>, 4, 1, 0; 2011 CF<sub>76</sub>, 3, 1, 0; 2011 DP<sub>41</sub>, 3, 1, 0; 2011 UV<sub>14</sub>, 3, 1, 0; 2011 UN<sub>114</sub>, 3, 1, 0; 2011 UK<sub>138</sub>, 4, 1, 0; 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2014 MX<sub>5</sub>, 4, 1, 0; 2014 MV<sub>16</sub>, 3, 1, 0; 2014 MU<sub>22</sub>, 4, 1, 0; 2014 MS<sub>42</sub>, 8, 2, 7; 2014 MM<sub>43</sub>, 4, 1, 0; 2014 MS<sub>48</sub>, 4, 1, 0; 2014 MQ<sub>52</sub>, 4, 1, 0; 2014 MX<sub>52</sub>, 3, 1, 0; 2014 MA<sub>53</sub>, 4, 1, 0; 2014 MR<sub>53</sub>, 4, 1, 0; 2014 MQ<sub>59</sub>, 3, 1, 0; 2014 NQ<sub>37</sub>, 4, 1, 0; 2014 NQ<sub>43</sub>, 4, 1, 0; 2014 NL<sub>46</sub>, 3, 1, 0; 2014 NB<sub>59</sub>, 4, 1, 0; 2014 NC<sub>59</sub>, 4, 1, 0; 2014 NE<sub>60</sub>, 4, 1, 0; 2014 NQ<sub>60</sub>, 4, 1, 0; 2014 OW<sub>1</sub>, 3, 1, 0; 2014 OG<sub>6</sub>, 4, 1, 0; 2014 OK<sub>6</sub>, 3, 1, 0; 2014 OK<sub>71</sub>, 4, 1, 0; 2014 OB<sub>73</sub>, 4, 1, 0; 2014 OQ<sub>95</sub>, 4, 1, 0; 2014 OH<sub>95</sub>, 4, 1, 0; 2014 OE<sub>96</sub>, 3, 1, 0; 2014 OR<sub>96</sub>, 3, 1, 0; 2014 OF<sub>97</sub>, 4, 1, 0; 2014 OQ<sub>97</sub>, 7, 2, 2; 2014 OQ<sub>98</sub>, 4, 1, 0; 2014 OB<sub>101</sub>, 3, 1, 0; 2014 OG<sub>101</sub>, 3, 1, 0; 2014 OT<sub>101</sub>, 4, 1, 0; 2014 OB<sub>102</sub>, 4, 1, 0; 2014 OJ<sub>129</sub>, 4, 1, 0; 2014 OU<sub>206</sub>, 4, 1, 0; 2014 OO<sub>220</sub>, 4, 1, 0; 2014 OM<sub>227</sub>, 4, 1, 0; 2014 ON<sub>274</sub>, 4, 1, 0; 2014 OB<sub>277</sub>, 4, 1, 0; 2014 OQ<sub>293</sub>, 4, 1, 0; 2014 OZ<sub>337</sub>, 3, 1, 0; 2014 OC<sub>338</sub>, 4, 1, 0; 2014 OE<sub>359</sub>, 3, 1, 0; 2014 OU<sub>392</sub> \*, 4, 1, 0; 2014 PU<sub>13</sub>, 3, 1, 0; 2014 PK<sub>24</sub>, 4, 1, 0; 2014 PC<sub>25</sub>, 4, 1, 0; 2014 PT<sub>28</sub>, 4, 1, 0; 2014 PL<sub>31</sub>, 3, 1, 0; 2014 PQ<sub>39</sub>, 3, 1, 0; 2014 PT<sub>39</sub>, 4, 1, 0; 2014 PV<sub>42</sub>, 4, 1, 0; 2014 PY<sub>54</sub>, 4, 1, 0; 2014 PQ<sub>56</sub>, 4, 1, 0; 2014 PG<sub>59</sub>, 6, 2, 1; 2014 PZ<sub>59</sub>, 3, 1, 0; 2014 PQ<sub>65</sub>, 4, 1, 0; 2014 PB<sub>70</sub>, 3, 1, 0; 2014 QE<sub>1</sub>, 4, 1, 0; 2014 QF<sub>1</sub>, 3, 1, 0; 2014 QG<sub>1</sub>, 3, 1, 0; 2014 QT<sub>1</sub>, 4, 1, 0; 2014 QL<sub>2</sub> \*, 10, 3, 2; 2014 QL<sub>3</sub>, 4, 1, 0; 2014 QN<sub>21</sub>, 3, 1, 0; 2014 QZ<sub>21</sub>, 3, 1, 0; 2014 QQ<sub>22</sub>, 4, 1, 0; 2014 QR<sub>27</sub>, 4, 1, 0; 2014 QD<sub>30</sub>, 4, 1, 0; 2014 QG<sub>33</sub>, 4, 1, 0; 2014 QG<sub>38</sub> \*, 3, 1, 0; 2014 QM<sub>38</sub> \*, 4, 1, 0; 2014 QJ<sub>98</sub>, 4, 1, 0; 2014 QH<sub>110</sub>, 8, 2, 25; 2014 QP<sub>134</sub>, 4, 1, 0; 2014 QH<sub>141</sub>, 4, 1, 0; 2014 QK<sub>141</sub>, 4, 1, 0; 2014 QP<sub>152</sub>, 3, 1, 0; 2014 QS<sub>152</sub>, 4, 1, 0; 2014 QG<sub>153</sub>, 4, 1, 0; 2014 QO<sub>166</sub>, 3, 1, 0; 2014 QR<sub>169</sub>, 3, 1, 0; 2014 QX<sub>175</sub>, 3, 1, 0; 2014 QM<sub>176</sub>, 4, 1, 0; 2014 QF<sub>177</sub>, 3, 1, 0; 2014 QS<sub>178</sub>, 4, 1, 0; 2014 QB<sub>179</sub>, 4, 1, 0; 2014 QE<sub>206</sub>, 4, 1, 0; 2014 QL<sub>210</sub>, 3, 1, 0; 2014 QM<sub>211</sub>, 3, 1, 0; 2014 QA<sub>212</sub>, 3, 1, 0; 2014 QH<sub>212</sub>, 4, 1, 0; 2014 PQ<sub>220</sub>, 4, 1, 0; 2014 QD<sub>223</sub>, 4, 1, 0; 2014 QR<sub>245</sub>, 4, 1, 0; 2014 QE<sub>249</sub>, 4, 1, 0; 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2014 QM<sub>365</sub> \*, 7, 2, 7; 2014 QP<sub>382</sub> \*, 4, 1, 0; 2014 QT<sub>382</sub> \*, 3, 1, 0; 2014 QU<sub>399</sub> \*, 4, 1, 0; 2014 QO<sub>406</sub> \*, 3, 1, 0; 2014 QC<sub>413</sub> \*, 3, 1, 0; 2014 QQ<sub>413</sub> \*, 4, 1, 0; 2014 QR<sub>413</sub> \*, 3, 1, 0; 2014 QW<sub>413</sub> \*, 3, 1, 0; 2014 QA<sub>428</sub>, 4, 1, 0; 2014 RY<sub>1</sub> \*, 3, 1, 0; 2014 RF<sub>6</sub> \*, 3, 1, 0; (40), 4, 1, 0; (70), 4, 1, 0; (83), 4, 1, 0; (104), 4, 1, 0; (131), 4, 1, 0; (156), 4, 1, 0; (248), 4, 1, 0; (283), 4, 1, 0; (285), 7, 2, 7; (309), 4, 1, 0; (329), 4, 1, 0; (403), 4, 1, 0; (489), 4, 1, 0; (515), 4, 1, 0; (640), 3, 1, 0; (683), 3, 1, 0; (715), 4, 1, 0; (762), 4, 1, 0; (778), 4, 1, 0; (821), 4, 1, 0; (851), 4, 1, 0; (883), 4, 1, 0; (1073), 4, 1, 0; (1106), 4, 1, 0; (1165),



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## H21 Astronomical Research Observatory, Westfield

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Observers R. Holmes, T. Linder

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

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

UCAC-4, UCAC-3

2000 PN<sub>8</sub>, 7, 1, 0; 2001 MF<sub>1</sub>, 8, 2, 1; 2002 JX<sub>136</sub>, 4, 1, 0; 2002 TF<sub>66</sub>, 3, 1, 0; 2005 SM<sub>159</sub>, 3, 1, 0; 2006 GJ<sub>7</sub>, 3, 1, 0; 2006 TV<sub>112</sub>, 3, 1, 0; 2009 SE<sub>230</sub>, 4, 1, 0; 2010 MR<sub>2</sub>, 1, 0; 2012 CA<sub>16</sub>, 3, 1, 0; 2012 UP<sub>27</sub>, 3, 1, 0; 2013 AH<sub>26</sub>, 3, 1, 0; 2013 HD<sub>34</sub>, 3, 1, 0; 2013 HS<sub>128</sub>, 3, 1, 0; 2014 CZ<sub>10</sub>, 4, 1, 0; 2014 CM<sub>11</sub>, 3, 1, 0; 2014 DR<sub>73</sub>, 4, 1, 0; 2014 EZ<sub>48</sub>, 20, 5, 23; 2014 GO<sub>39</sub>, 4, 1, 0; 2014 GO<sub>49</sub>, 3, 1, 0; 2014 JN<sub>33</sub>, 4, 1, 0; 2014 JS<sub>44</sub>, 2, 1, 0; 2014 JE<sub>61</sub>, 3, 1, 0; 2014 KE<sub>46</sub>, 6, 2, 11; 2014 MS<sub>2</sub>, 3, 1, 0; 2014 MO<sub>5</sub>, 3, 1, 0; 2014 MD<sub>6</sub>, 10, 3, 2; 2014 MK<sub>6</sub>, 3, 1, 0; 2014 MM<sub>55</sub>, 6, 2, 8; 2014 MO<sub>60</sub>, 3, 1, 0; 2014 NE<sub>39</sub>, 2, 1, 0; 2014 NJ<sub>52</sub>, 3, 1, 0; 2014 NE<sub>63</sub>, 11, 3, 6; 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2014 QB<sub>266</sub>, 6, 1, 0; 2014 QM<sub>266</sub>, 3, 1, 0; 2014 QN<sub>266</sub>, 3, 1, 0; 2014 QQ<sub>266</sub>, 3, 1, 0; 2014 QR<sub>266</sub>, 3, 1, 0; 2014 QC<sub>275</sub>, 3, 1, 0; 2014 QU<sub>295</sub>, 3, 1, 0; 2014 QB<sub>296</sub>, 2, 1, 0; 2014 QC<sub>296</sub>, 3, 1, 0; 2014 QD<sub>296</sub>, 3, 1, 0; 2014 QG<sub>296</sub>, 3, 1, 0; 2014 QH<sub>296</sub>, 3, 1, 0; 2014 QJ<sub>296</sub>, 3, 1, 0; 2014 QK<sub>296</sub>, 3, 1, 0; 2014 QL<sub>296</sub>, 3, 1, 0; 2014 QM<sub>296</sub>, 3, 1, 0; 2014 QN<sub>296</sub>, 3, 1, 0; 2014 QO<sub>296</sub>, 3, 1, 0; 2014 QP<sub>296</sub>, 3, 1, 0; 2014 QQ<sub>296</sub>, 3, 1, 0; 2014 QS<sub>296</sub>, 6, 2, 1; 2014 QT<sub>296</sub>, 3, 1, 0; 2014 QV<sub>296</sub>, 3, 1, 0; 2014 QD<sub>305</sub>, 3, 1, 0; 2014 QB<sub>337</sub> \*, 3, 1, 0; 2014 QO<sub>362</sub>, 3, 1, 0; 2014 QT<sub>362</sub>, 5, 2, 6; 2014 QW<sub>363</sub>, 3, 1, 0; 2014 QG<sub>364</sub>, 2, 1, 0; 2014 QL<sub>364</sub>, 2, 1, 0; 2014 QQ<sub>364</sub>, 3, 1, 0; 2014 QY<sub>364</sub>, 2, 1, 0; 2014 QB<sub>365</sub>, 2, 1, 0; 2014 QC<sub>365</sub>, 3, 1, 0; 2014 QE<sub>365</sub>, 3, 1, 0; 2014 QF<sub>365</sub>, 3, 1, 0; 2014 QH<sub>365</sub>, 3, 1, 0; 2014 QK<sub>365</sub>, 3, 1, 0; 2014 QL<sub>365</sub>, 3, 1, 0; 2014 QA<sub>366</sub>, 3, 1, 0; 2014 QD<sub>369</sub> \*, 3, 1, 0; 2014 QF<sub>390</sub>, 3, 1, 0; 2014 QK<sub>390</sub>, 3, 1, 0; 2014 QL<sub>390</sub>, 3, 1, 0; 2014 QM<sub>390</sub>, 6, 2, 3; 2014 QR<sub>390</sub>, 3, 1, 0; 2014 QX<sub>390</sub>, 3, 1, 0; 2014 QY<sub>390</sub>, 3, 1, 0; 2014 QD<sub>391</sub>, 3, 1, 0; 2014 QE<sub>391</sub>, 3, 1, 0; 2014 QF<sub>391</sub>, 3, 1, 0; 2014 QW<sub>396</sub>, 3, 1, 0; 2014 QU<sub>407</sub>, 3, 1, 0; 2014 QZ<sub>432</sub>, 5, 2, 2; 2014 QA<sub>433</sub>, 3, 1, 0; 2014 QC<sub>433</sub>, 2, 1, 0; 2014 QD<sub>433</sub>, 3, 1, 0; 2014 QE<sub>433</sub>, 3, 1, 0; 2014 QL<sub>433</sub>, 3, 1, 0; 2014 QM<sub>433</sub>, 3, 1, 0; 2014 QS<sub>433</sub>, 3, 1, 0; 2014 QF<sub>434</sub>, 2, 1, 0; 2014 RE<sub>3</sub>, 1, 0; 2014 RJ<sub>5</sub>, 1, 0; 2014 RM<sub>3</sub>, 1, 0; 2014 RN<sub>3</sub>, 1, 0; 2014 RU<sub>3</sub>, 1, 0; 2014 RC<sub>11</sub>, 6, 1, 0; 2014 RD<sub>11</sub>, 6, 1, 0; 2014 RE<sub>11</sub>, 5, 1, 0; 2014 RF<sub>11</sub>, 3, 1, 0; 2014 RH<sub>11</sub>, 2, 1, 0; 2014 RJ<sub>11</sub>, 3, 1, 0; 2014 RK<sub>11</sub>, 3, 1, 0; 2014 RL<sub>11</sub>, 3, 1, 0; 2014 RM<sub>11</sub>, 3, 1, 0; 2014 RN<sub>11</sub>, 3, 1, 0; 2014 RO<sub>11</sub>, 3, 1, 0; 2014 RU<sub>11</sub>, 2, 1, 0; 2014 RY<sub>11</sub>, 6, 1, 0; 2014 RZ<sub>11</sub>, 3, 1, 0; 2014 RB<sub>12</sub>, 3, 1, 0; 2014 RC<sub>12</sub>, 3, 1, 0; (1576), 4, 1, 0; (1917), 6, 2, 23; (1943), 5, 1, 0; (3288), 16, 3, 24; (5332), 3, 1, 0; (6050), 11, 2, 1; (7236), 5, 1, 0; (16636), 10, 2, 1; (18882), 6, 1, 0; (24443), 5, 1, 0; (39796), 15, 2, 1; (54686), 10, 2, 24; (68348), 7, 2, 23; (87309), 5, 1, 0; (88710), 6, 1, 0; (105140), 14, 3, 24; (106589), 7, 1, 0; (138847), 13, 3, 24; (143624), 11, 2, 1; (162980), 3, 1, 0; (190166), 5, 1, 0; (190491), 2, 1, 0; (243566), 2, 1, 0; (247360), 4, 1, 0; (276049), 12, 2, 1; (277616), 4, 1, 0; (281375), 3, 1, 0; (285944),

6, 1, 0; (318160), 3, 1, 0; (333578), 6, 1, 0; (334673), 4, 1, 0; (399307), 4, 1, 0; [877, 206, 2\*, 2010/03/19–2014/09/05]

## 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-4

2005 QQ<sub>87</sub>, 3, 1, 0; 2005 VK<sub>126</sub>, 2, 1, 0; 2007 TL<sub>345</sub>, 3, 1, 0; 2014 KL<sub>73</sub>, 3, 1, 0; 2014 MS<sub>2</sub>, 2, 1, 0; 2014 ND<sub>44</sub>, 2, 1, 0; 2014 OG<sub>3</sub>, 2, 1, 0; 2014 OW<sub>70</sub>, 3, 1, 0; 2014 OD<sub>300</sub>, 3, 1, 0; 2014 OW<sub>391</sub>, 3, 1, 0; 2014 PQ<sub>58</sub>, 3, 1, 0; 2014 PZ<sub>58</sub>, 3, 1, 0; 2014 PS<sub>59</sub>, 4, 1, 0; 2014 PC<sub>68</sub>, 4, 1, 0; 2014 QJ<sub>3</sub>, 2, 1, 0; 2014 QP<sub>2</sub>, 3, 1, 0; 2014 QT<sub>2</sub>, 3, 1, 0; 2014 QU<sub>2</sub>, 3, 1, 0; 2014 QC<sub>3</sub>, 3, 1, 0; 2014 QD<sub>3</sub>, 3, 1, 0; 2014 QL<sub>32</sub>, 4, 1, 0; 2014 QH<sub>33</sub>, 6, 2, 1; 2014 QJ<sub>33</sub>, 2, 1, 0; 2014 QK<sub>33</sub>, 3, 1, 0; 2014 QX<sub>33</sub>, 3, 1, 0; 2014 QY<sub>33</sub>, 9, 3, 2; 2014 QG<sub>38</sub> \*, 3, 1, 0; 2014 QD<sub>127</sub>, 3, 1, 0; 2014 QT<sub>295</sub>, 3, 1, 0; 2014 QZ<sub>295</sub>, 4, 1, 0; 2014 QR<sub>296</sub>, 3, 1, 0; 2014 QS<sub>296</sub>, 3, 1, 0; 2014 QV<sub>296</sub>, 3, 1, 0; 2014 QB<sub>297</sub>, 3, 1, 0; 2014 QX<sub>363</sub>, 2, 1, 0; 2014 QL<sub>390</sub>, 3, 1, 0; 2014 QK<sub>433</sub>, 3, 1, 0; 2014 RK<sub>3</sub>, 3, 1, 0; [120, 38, 1\*, 2011/11/28–2014/09/04]

## H45 Arkansas Sky Obs., Petit Jean Mountain South

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

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

Observer P. C. Sherrod

Measurers P. C. Sherrod, L. P. Sherrod

0.51-m  $f/4.3$  astrograph + CCD

UCAC-4

2002 NX<sub>46</sub>, 6, 1, 0; 2002 TR<sub>96</sub>, 5, 1, 0; 2005 GP<sub>128</sub>, 12, 2, 2; 2005 OJ<sub>3</sub>, 12, 2, 3; 2007 TG<sub>25</sub>, 3, 1, 0; 2008 OB<sub>9</sub>, 28, 4, 14; 2010 MR<sub>9</sub>, 2, 7; 2011 RZ<sub>18</sub>, 3, 10; 2012 UP<sub>27</sub>, 22, 4, 14; 2014 EZ<sub>48</sub>, 30, 5, 14; 2014 JO<sub>57</sub>, 15, 3, 10; 2014 KG<sub>2</sub>, 12, 2, 4; 2014 KV<sub>84</sub>, 26, 5, 13; 2014 LK<sub>26</sub>, 9, 2, 8; 2014 MD<sub>6</sub>, 6, 1, 0; 2014 MM<sub>55</sub>, 8, 1, 0; 2014 NE<sub>63</sub>, 24, 3, 6; 2014 NA<sub>64</sub>, 26, 4, 13; 2014 OT<sub>111</sub>, 6, 1, 0; 2014 PG<sub>51</sub>, 40, 5, 14; 2014 PL<sub>51</sub>, 16, 2, 4; 2014 PA<sub>59</sub>, 33, 4, 10; 2014 PR<sub>62</sub>, 38, 5, 13; 2014 QL<sub>32</sub>, 10, 1, 0; 2014 QN<sub>32</sub>, 6, 1, 0; 2014 QH<sub>33</sub>, 22, 3, 8; 2014 QO<sub>33</sub>, 22, 3, 4; 2014 RC<sub>45</sub>, 2, 1; (23922), 14, 1, 0; (88710), 6, 1, 0; (138847), 6, 1, 0; (276049), 18, 3, 10; (285944), 6, 1, 0; (333578), 8, 1, 0; [567, 34, 0\*, 2014/08/22–2014/09/05]

## H47 Vicksburg

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

[charbell@bellsouth.net]

0.3-m Schmidt-Cassegrain + CCD

PPMXL

(27594), 4, 1, 0; [4, 1, 0\*, 2014/08/24]

## H82 CBA-NOVAC Observatory, Front Royal

D. Skillman, 6-G Ridge Road, Greenbelt, MD 20770, U.S.A.

[dskillman@comcast.net]

0.66-m  $f/2.7$  reflector + CCD

UCAC-2

2002 PS<sub>8</sub>, 2, 1, 0; [2, 1, 0\*, 2011/12/25]

## I03 European Southern Obs., La Silla-ASTROVIRTEL

C. Barbieri, Astronomical Observatory and Dept. of Astronomy of the

University of Padova, Vicolo Osservatorio 5, I-35122 Padova, Italy

[barbieri@pd.astro.it] (1)

2010 NX<sub>11</sub>, 2, 1, 0; [2, 1, 0\*, 2003/02/05]

## I11 Gemini South Observatory, Cerro Pachon

J. Masiero, no details supplied (4)

2014 OT<sub>392</sub>, 1, 1, 0; [1, 1, 0\*, 2014/08/01]

## I15 Wishing Star Observatory, Barrington

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

[pete@petersonengineering.com]



Observers H. G. Peterson, A. Gautam

0.35-m  $f/10$  Schmidt-Cassegrain + CCD +  $f/5.87$  focal reducer

UCAC-4

2000 PN<sub>8</sub>, 3, 1, 0; 2008 OC<sub>6</sub>, 3, 1, 0; 2012 UP<sub>27</sub>, 5, 2, 11; 2013 WT<sub>67</sub>, 9, 3, 8; 2014 EZ<sub>48</sub>, 6, 2, 6; 2014 NA<sub>64</sub>, 3, 1, 0; 2014 OX<sub>299</sub>, 6, 2, 4; 2014 PA<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QL<sub>32</sub>, 6, 2, 2; (1943), 3, 1, 0; (7236), 6, 2, 3; (24443), 3, 1, 0; (40263), 6, 2, 9; (87309), 6, 2, 5; (143624), 6, 2, 10; (162181), 6, 2, 12; (162980), 3, 1, 0; (276049), 6, 2, 6; (277616), 3, 1, 0; (285944), 6, 2, 9; (303174), 3, 1, 0; (333578), 3, 1, 0; (365071), 3, 1, 0; (369984), 6, 2, 3; [116, 25, 0\*, 2014/08/11–2014/09/05]

### I19 Observatorio El Gato Gris, Tanti

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

Observers C. Colazo, N. Diaz, R. Melia

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

UCAC-4

2014 PA<sub>59</sub>, 3, 1, 0; [3, 1, 0\*, 2014/08/09]

### I39 Observatorio Cruz del Sur, San Justo

A. Chapman, Observatorio Cruz del Sur, 2556 Chañar Street, San Justo, Buenos

Aires, Argentina [landresechapan@gmail.com]

0.20-m  $f/4$  reflector + CCD

UCAC-4

2014 PR<sub>62</sub>, 3, 1, 0; 2014 QA<sub>33</sub>, 4, 1, 0; 2014 RC, 2, 1, 0; [9, 3, 0\*, 2014/08/17–2014/09/06]

### I41 Palomar Mountain–PTF

A. Waszczak, California Institute of Technology, Pasadena, CA 91125, U.S.A.

[waszczak@caltech.edu]

Measurer A. Waszczak

1.2-m  $f/2.44$  Schmidt + CCD

SDSS

2001 QD<sub>215</sub>, 7, 3, 3; 2001 SN<sub>287</sub>, 8, 3, 4; 2002 LB<sub>15</sub>, 3, 1, 0; 2003 RL<sub>13</sub>, 6, 2, 1; 2003 TC<sub>36</sub>, 4, 2, 1; 2003 UC<sub>16</sub>, 7, 3, 3; 2003 UT<sub>81</sub>, 5, 2, 1; 2003 WF<sub>46</sub>, 6, 2, 1; 2004 RT<sub>98</sub>, 3, 1, 0; 2004 SL<sub>2</sub>, 4, 2, 1; 2005 QF<sub>11</sub>, 4, 2, 1; 2005 RG<sub>6</sub>, 4, 2, 1; 2005 UO<sub>76</sub>, 7, 3, 3; 2005 XY<sub>41</sub>, 4, 2, 1; 2006 OY<sub>21</sub>, 7, 3, 3; 2006 QE<sub>48</sub>, 7, 3, 3; 2006 UE<sub>193</sub>, 3, 1, 0; 2007 RC<sub>24</sub>, 3, 1, 0; 2007 TZ<sub>299</sub>, 7, 3, 4; 2007 TL<sub>368</sub>, 8, 4, 3; 2007 UG<sub>4</sub>, 4, 2, 1; 2007 UN<sub>96</sub>, 4, 2, 1; 2008 OJ<sub>4</sub>, 4, 2, 1; 2008 PB<sub>21</sub>, 9, 3, 3; 2009 RU<sub>47</sub>, 3, 1, 0; 2009 UP<sub>136</sub>, 4, 2, 1; 2009 VM<sub>2</sub>, 7, 3, 3; 2009 VF<sub>8</sub>, 4, 2, 1; 2010 BM<sub>61</sub>, 4, 2, 1; 2010 NW<sub>96</sub>, 3, 1, 0; 2010 PO<sub>24</sub>, 3, 1, 0; 2010 VC<sub>205</sub>, 3, 1, 0; 2012 AD<sub>24</sub>, 4, 2, 1; 2012 BR<sub>16</sub>, 12, 5, 5; 2012 XL<sub>136</sub>, 4, 2, 1; 2013 EC<sub>59</sub>, 4, 2, 1; 2013 GF<sub>21</sub>, 3, 1, 0; 2013 GG<sub>90</sub>, 4, 2, 1; 2013 HN<sub>21</sub>, 7, 3, 3; 2013 SQ<sub>84</sub>, 3, 1, 0; 2014 HO<sub>184</sub>, 4, 2, 1; 2014 LD<sub>23</sub>, 3, 1, 0; 2014 MX<sub>1</sub>, 4, 1, 0; 2014 MQ<sub>17</sub>, 3, 1, 0; 2014 MA<sub>41</sub>, 3, 1, 0; 2014 MM<sub>53</sub>, 6, 2, 26; 2014 NJ<sub>58</sub>, 6, 2, 26; 2014 NX<sub>58</sub>, 3, 1, 0; 2014 NN<sub>61</sub>, 3, 1, 0; 2014 NW<sub>61</sub>, 3, 1, 0; 2014 OB<sub>12</sub>, 3, 1, 0; 2014 OU<sub>187</sub>, 4, 2, 1; 2014 OU<sub>188</sub>, 4, 2, 1; 2014 OW<sub>195</sub>, 4, 2, 1; 2014 OB<sub>197</sub>, 7, 3, 3; 2014 OH<sub>205</sub>, 6, 2, 6; 2014 OE<sub>207</sub>, 3, 1, 0; 2014 OB<sub>227</sub>, 3, 1, 0; 2014 OY<sub>230</sub>, 4, 2, 1; 2014 OM<sub>231</sub>, 10, 4, 4; 2014 OX<sub>236</sub>, 8, 2, 2; 2014 OJ<sub>272</sub>, 6, 1, 0; 2014 OH<sub>293</sub>, 4, 2, 1; 2014 OR<sub>296</sub>, 4, 2, 1; 2014 OU<sub>299</sub>, 4, 2, 1; 2014 PE<sub>39</sub>, 3, 1, 0; 2014 PZ<sub>59</sub>, 4, 2, 1; 2014 QJ<sub>134</sub>, 3, 1, 0; 2014 QC<sub>297</sub>, 4, 2, 1; 2014 QA<sub>309</sub>, 6, 2, 1; 2014 QY<sub>358</sub>, 4, 1, 0; 2014 QR<sub>373</sub>, 3, 1, 0; 2014 QJ<sub>416</sub> \*, 4, 2, 1; 2014 QX<sub>419</sub> \*, 4, 2, 1; 2014 RH, 12, 4, 4; 2014 RJ \*, 2, 1, 0; 2014 RY<sub>7</sub> \*, 4, 2, 1; 2014 RZ<sub>7</sub> \*, 4, 2, 1; 2014 RA<sub>8</sub> \*, 4, 2, 1; 2014 RB<sub>8</sub> \*, 4, 2, 1; 2014 RG<sub>8</sub> \*, 4, 2, 1; (132), 8, 4, 3; (1030), 4, 2, 1; (1081), 4, 2, 1; (1097), 7, 3, 3; (1144), 13, 6, 6; (2097), 10, 4, 5; (2258), 7, 3, 3; (2824), 11, 5, 5; (2987), 11, 5, 5; (3091), 6, 2, 1; (3117), 7, 3, 3; (3379), 11, 5, 6; (3401), 4, 2, 1; (3546), 4, 2, 1; (3680), 3, 1, 0; (3681), 9, 4, 4; (4391), 11, 5, 5; (4530), 13, 6, 6; (4690), 4, 2, 1; (5031), 3, 1, 0; (5128), 8, 4, 3; (5439), 4, 2, 1; (5513), 4, 2, 1; (5732), 7, 3, 2; (5870), 3, 1, 0; (6612), 4, 2, 1; (6951), 5, 2, 1; (7664), 11, 5, 5; (7901), 4, 2, 1; (8248), 11, 5, 5; (8310), 4, 2, 1; (8355), 4, 2, 1; (8526), 11, 5, 5; (8728), 4, 2, 1; (8764), 9, 4, 3; (8867), 9, 4, 4; (9739), 8, 4, 5; (10101), 6, 2, 1; (10429), 4, 2, 1; (10523), 7, 3, 5; (10641), 8, 4, 3; (10680), 7, 3, 3; (11172), 8, 4, 3; (11534), 7, 3, 3; (11693), 7, 3, 3; (12014), 3, 1, 0; (13321), 7, 3, 4; (13472), 5, 2, 1; (13619), 7, 3, 3; (13917), 4, 2, 1; (14193), 7, 3, 3; (14316), 8, 4, 4; (14377), 8, 4, 3; (14478), 4, 2, 1; (14556), 3, 1, 0; (14716), 7, 3, 3; (15307), 11, 5, 5; (15313), 7, 3, 3; (15507), 7, 3, 3; (15666), 13, 6, 6; (15795), 7, 3, 3; (15866), 3, 1, 0; (15915), 7, 3, 3; (15999), 7, 3, 4; (16323), 11, 5, 5; (16516), 7, 3, 6; (16729), 4, 2, 1; (16826), 7, 3, 5; (16998), 4, 2, 1; (17041), 4, 2, 1; (17149), 10, 4, 4; (17331), 3, 1, 0; (17628), 10, 4, 5; (17875), 9, 4, 4; (17950), 4, 2, 1; (18192), 5, 2, 1; (18384), 4, 2, 1; (18899), 3, 1, 0; (19345), 3, 1, 0; (19351), 7, 3, 4; (19390), 4, 2, 1; (19840), 11, 5, 5; (20155), 7, 3, 3; (20225), 4, 2, 1; (20609), 11, 5, 5; (20621), 3, 1, 0; (21080), 4, 2, 1; (21201), 7, 3, 4; (21327), 3, 1, 0; (21586), 8, 4, 5; (21588), 5, 2, 1; (21668), 4, 2, 1; (21716), 4, 2, 1; (21839), 7, 3, 4; (22005), 13,

5, 5; (22575), 6, 2, 1; (22860), 3, 1, 0; (22920), 4, 2, 1; (22992), 4, 2, 1; (23365), 3, 1, 0; (23598), 4, 2, 1; (23878), 8, 4, 3; (24001), 11, 5, 5; (24408), 4, 2, 1; (24412), 5, 2, 1; (24652), 4, 2, 1; (24744), 7, 3, 4; (25213), 14, 6, 6; (25683), 4, 1, 0; (26968), 6, 2, 5; (27432), 14, 6, 6; (27524), 8, 4, 3; (27600), 9, 4, 4; (27642), 8, 4, 3; (28496), 3, 1, 0; (28510), 11, 5, 5; (28605), 7, 3, 4; (29103), 3, 1, 0; (29158), 4, 2, 1; (29493), 4, 2, 1; (29668), 4, 2, 1; (29863), 4, 2, 1; (30817), 4, 2, 1; (31102), 10, 4, 5; (31523), 3, 1, 0; (31696), 3, 1, 0; (31793), 3, 1, 0; (31865), 9, 4, 4; (31989), 4, 2, 1; (32174), 14, 6, 6; (32379), 9, 4, 4; (32786), 8, 4, 3; (33058), 3, 1, 0; (33464), 11, 5, 5; (34104), 10, 4, 4; (34282), 3, 1, 0; (34882), 4, 2, 1; (35235), 3, 1, 0; (35339), 3, 1, 0; (35479), 4, 1, 0; (35718), 6, 2, 1; (35724), 7, 3, 3; (35910), 3, 1, 0; (35976), 4, 2, 1; (36066), 7, 3, 3; (36174), 3, 1, 0; (36337), 6, 2, 1; (36403), 7, 3, 4; (36426), 8, 4, 3; (36575), 10, 4, 4; (36607), 4, 1, 0; (36817), 4, 2, 1; (37037), 3, 1, 0; (37057), 4, 2, 1; (37339), 3, 1, 0; (37493), 5, 2, 1; (37566), 8, 4, 3; (37599), 13, 5, 5; (38122), 11, 5, 5; (38133), 3, 1, 0; (38377), 3, 1, 0; (38464), 8, 4, 3; (38494), 11, 5, 5; (38519), 4, 2, 1; (38557), 3, 1, 0; (38816), 3, 1, 0; (39047), 11, 5, 5; (39248), 9, 4, 4; (39373), 8, 4, 3; (39478), 7, 3, 3; (39742), 3, 1, 0; (39882), 3, 1, 0; (39957), 13, 5, 5; (40183), 3, 1, 0; (40478), 4, 2, 1; (40487), 3, 1, 0; (40503), 11, 5, 5; (41674), 4, 2, 1; (41821), 10, 4, 4; (42209), 4, 2, 1; (42401), 3, 1, 0; (42687), 10, 4, 5; (42769), 9, 4, 4; (42934), 3, 1, 0; (43499), 6, 2, 1; (43633), 4, 2, 1; (43967), 11, 5, 5; (44648), 7, 3, 4; (45515), 6, 2, 1; (45606), 4, 2, 1; (46040), 7, 3, 3; (46071), 5, 2, 1; (47138), 3, 1, 0; (47735), 13, 6, 6; (47904), 4, 2, 1; (48427), 8, 4, 3; (49318), 5, 2, 1; (49896), 7, 3, 4; (49918), 4, 2, 1; (50146), 7, 3, 4; (50205), 4, 2, 1; (50317), 3, 1, 0; (50445), 7, 3, 3; (51611), 7, 3, 4; (51643), 8, 4, 3; (51836), 4, 2, 1; (52092), 4, 2, 1; (53212), 3, 1, 0; (53249), 3, 1, 0; (53498), 14, 6, 6; (53651), 3, 1, 0; (53935), 7, 3, 3; (54429), 8, 4, 3; (54814), 4, 2, 1; (54828), 4, 2, 1; (54986), 4, 2, 1; (55210), 7, 3, 5; (55999), 3, 1, 0; (56062), 4, 2, 1; (56274), 8, 4, 3; (56374), 7, 3, 3; (56765), 4, 2, 1; (57494), 4, 2, 1; (57892), 5, 2, 1; (58040), 9, 4, 4; (58235), 8, 4, 3; (58719), 13, 6, 6; (58965), 5, 2, 1; (59189), 4, 2, 1; (60087), 8, 4, 4; (61060), 11, 5, 5; (61177), 14, 6, 6; (61234), 9, 4, 4; (61406), 6, 2, 1; (61490), 4, 2, 1; (61523), 5, 2, 1; (61792), 7, 3, 3; (62068), 4, 2, 1; (62181), 11, 5, 6; (62411), 7, 3, 5; (62516), 9, 4, 4; (62546), 7, 3, 3; (62609), 4, 2, 1; (62838), 11, 5, 5; (64155), 6, 2, 1; (64167), 4, 2, 1; (64260), 6, 2, 1; (64551), 4, 2, 1; (64691), 3, 1, 0; (64830), 6, 2, 1; (64880), 7, 3, 5; (65434), 4, 2, 1; (65599), 14, 6, 6; (65646), 3, 1, 0; (66081), 10, 4, 4; (66088), 4, 2, 1; (66132), 13, 6, 6; (66242), 3, 1, 0; (66383), 13, 6, 6; (67259), 7, 3, 5; 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(142929), 4, 2, 1; (144025), 10, 4, 4; (145648), 7, 3, 3; (145686), 4, 2, 1; (147084),



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#### I42 Westport Observatory

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0.25-m reflector

UCAC-4

2014 EZ<sub>48</sub>, 3, 1, 0; [3, 1, 0\*, 2014/08/30]

#### I47 Pierre Auger Observatory, Malargüe

M. Mašek, Zitna 683, Liberec 6, 46006, Liberec 6 [cassi@astronomie.cz]

Observers M. Masek, K. Honkova, J. Jurysek, J. Cerny

0.3-m  $f/10$  reflector + CCD

UCAC-4

2007 PB<sub>42</sub>, 15, 3, 6; 2014 PR<sub>62</sub>, 5, 1, 0; (1045), 2, 1, 0; (32970), 2, 1, 0; (53432), 4, 2, 1; (72231), 3, 1, 0; [31, 6, 0\*, 2014/07/30–2014/08/23]

#### I52 Steward Observatory, Mt. Lemmon Station

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

[eric@lpl.arizona.edu@lpl.arizona.edu]

Observer A. R. Gibbs

Measurers E. J. Christensen, A. R. Gibbs, A. D. Grauer, R. E. Hill, J. A. Johnson,

R. A. Kowalski, S. M. Larson, R. J. Sanders, F. C. Shelly

1.0-m reflector + CCD

UCAC-4

2006 SW<sub>247</sub>, 2, 1, 0; 2007 RT<sub>5</sub>, 4, 1, 0; 2010 VM<sub>199</sub>, 4, 1, 0; 2012 FR<sub>74</sub>, 4, 1, 0; 2014 HX<sub>180</sub>, 4, 1, 0; 2014 JO<sub>49</sub>, 4, 1, 0; 2014 KK<sub>74</sub>, 4, 1, 0; 2014 KU<sub>78</sub>, 8, 1, 0; 2014 MW<sub>33</sub>, 4, 1, 0; 2014 OB<sub>207</sub>, 3, 1, 0; 2014 QE<sub>362</sub>, 3, 1, 0; 2014 QF<sub>362</sub>, 4, 1, 0; 2014 QB<sub>363</sub>, 2, 1, 0; 2014 QD<sub>363</sub>, 4, 1, 0; 2014 QU<sub>363</sub>, 4, 1, 0; 2014 QB<sub>365</sub>, 4, 1, 0; 2014 QL<sub>390</sub>, 4, 1, 0; 2014 QQ<sub>390</sub>, 4, 1, 0; (29463), 4, 1, 0; (40671), 4, 1, 0; (51753), 4, 1, 0; (72706), 4, 1, 0; (78974), 4, 1, 0; (187815), 4, 1, 0; (223307), 8, 1, 0; (223721), 4, 1, 0; (252028), 4, 1, 0; (272732), 4, 1, 0; (325686), 4, 1, 0; (360524), 4, 1, 0; (363294), 4, 1, 0; (364246), 8, 1, 0; [134, 32, 0\*, 2014/05/11–2014/08/29]

#### I61 Ourense

F. Fernández, C/ Cesáreo González 18, Ourense 32005, Spain

[aristarco@aristarco.org]

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

CMC

(276049), 6, 3, 3; (285944), 4, 2, 5; [10, 2, 0\*, 2014/08/19–2014/09/01]

#### I73 Salvia Observatory, Saulges

T. Midavaine, 102 rue de Vaugirard, 75006 Paris, France

[thierrymidavaine@sfr.fr]

0.36-m  $f/10.5$  Schmidt-Cassegrain + CCD +  $f/3.8$  focal reducer

UCAC-4

(1917), 9, 3, 6; (2014), 11, 4, 9; (10346), 9, 3, 6; [29, 3, 0\*, 2014/08/20–2014/08/29]

#### I83 Cherryvalley Observatory, Rathmolyon

M. Foylan, 14 Cherryvalley Copse, Rathmolyon, Meath, Ireland

[foylanm@esatclear.ie]

0.20-m  $f/07.0$  Schmidt-Cassegrain + CCD

UCAC-3

(4910), 6, 2, 8; [6, 1, 0\*, 2014/08/23–2014/08/31]

#### I89 iTelescope Observatory, Nerpio

S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A.

[steveareno225@gmail.com] (16)

D. Brandt, 2624 Cedar Crest Rd W, Minnetonka, MN 55305, U.S.A.

[brandtdr@earthlink.net] (21)

Observers S. M. Tilley, A. Novichonok, H. Sato, E. Bryssinck, M. Suzuki

Measurers S. M. Tilley, T. Prystavski, H. Sato, E. Bryssinck, M. Suzuki

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

UCAC-4, CMC, NOMAD, PPMXL, UCAC-3

{16} 2014 OZ<sub>337</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 10, 3, 3; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QL<sub>32</sub>, 6, 2, 1; (1307), 3, 1, 0; (24648), 3, 1, 0; (97978), 3, 1, 0; (128335), 3, 1, 0; [34, 8, 0\*, 2014/08/08–2014/08/21]

{21} (654), 3, 1, 0; [3, 1, 0\*, 2014/08/31]

#### I93 St Pardon de Conques

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

[florent.losse@yahoo.fr]

0.40-m  $f/3.7$  reflector + CCD

UCAC-4



1998 RS<sub>13</sub>, 3, 1, 0; 2001 SR<sub>215</sub>, 3, 1, 0; 2005 AP<sub>52</sub>, 3, 1, 0; 2005 OQ<sub>19</sub>, 3, 1, 0; 2009 BR<sub>31</sub>, 3, 1, 0; 2010 TZ<sub>146</sub>, 5, 2, 1; 2011 SK<sub>178</sub>, 3, 1, 0; 2011 SL<sub>274</sub>, 3, 1, 0; 2012 BF<sub>140</sub>, 3, 1, 0; 2014 MJ<sub>17</sub>, 6, 2, 1; 2014 OV<sub>99</sub>, 3, 1, 0; 2014 OP<sub>195</sub>, 3, 1, 0; 2014 OK<sub>343</sub>, 2, 1, 0; 2014 PC<sub>30</sub>, 6, 2, 2; 2014 PW<sub>37</sub>, 5, 2, 2; 2014 PD<sub>48</sub>, 6, 2, 2; 2014 PE<sub>48</sub>, 3, 1, 0; 2014 PS<sub>48</sub>, 3, 1, 0; 2014 PE<sub>49</sub>, 6, 2, 3; 2014 PF<sub>50</sub>, 9, 3, 4; 2014 PQ<sub>54</sub>, 9, 3, 4; 2014 PA<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 4, 1, 0; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QN<sub>32</sub>, 2, 1, 0; 2014 QF<sub>33</sub>, 3, 1, 0; 2014 QH<sub>33</sub>, 3, 1, 0; 2014 QJ<sub>33</sub>, 3, 1, 0; 2014 QO<sub>33</sub>, 3, 1, 0; 2014 QS<sub>304</sub> \*, 8, 3, 9; 2014 QT<sub>304</sub> \*, 10, 4, 9; 2014 QX<sub>363</sub>, 2, 1, 0; 2014 QK<sub>365</sub>, 3, 1, 0; 2014 QL<sub>375</sub>, 8, 3, 2; 2014 QS<sub>381</sub>, 5, 2, 1; 2014 QU<sub>381</sub> \*, 5, 2, 3; 2014 QC<sub>385</sub>, 6, 2, 1; 2014 QD<sub>390</sub> \*, 6, 2, 1; 2014 QM<sub>390</sub>, 3, 1, 0; 2014 QD<sub>391</sub>, 3, 1, 0; 2014 QT<sub>430</sub>, 6, 2, 3; 2014 QV<sub>432</sub> \*, 6, 2, 2; 2014 QA<sub>433</sub>, 3, 1, 0; 2014 RB<sub>3</sub>, 1, 0; 2014 RN<sub>2</sub>, 6, 2, 1; 2014 RD<sub>7</sub> \*, 6, 2, 1; 2014 RE<sub>7</sub> \*, 5, 2, 2; 2014 RF<sub>7</sub> \*, 6, 2, 1; 2014 RG<sub>7</sub> \*, 6, 2, 1; 2014 RX<sub>10</sub> \*, 6, 2, 1; 2014 RY<sub>10</sub> \*, 5, 2, 1; 2014 RZ<sub>10</sub> \*, 5, 2, 1; 2014 RA<sub>11</sub> \*, 5, 2, 1; 2014 RB<sub>11</sub> \*, 6, 2, 1; 2014 RC<sub>11</sub>, 2, 1, 0; 2014 RE<sub>11</sub>, 3, 1, 0; 2014 RF<sub>11</sub>, 3, 1, 0; 2014 RJ<sub>11</sub>, 3, 1, 0; 2014 RY<sub>11</sub>, 3, 1, 0; 2014 RC<sub>12</sub>, 3, 1, 0; (16094), 3, 1, 0; (18622), 3, 1, 0; (21586), 3, 1, 0; (21827), 3, 1, 0; (35215), 3, 1, 0; (43289), 3, 1, 0; (46417), 3, 1, 0; (52185), 3, 1, 0; (53296), 6, 2, 1; (57557), 3, 1, 0; (60575), 5, 2, 3; (71837), 3, 1, 0; (73281), 2, 1, 0; (76954), 3, 1, 0; (81168), 6, 2, 1; (95276), 3, 1, 0; (108226), 3, 1, 0; (116649), 3, 1, 0; (126113), 3, 1, 0; (126947), 6, 2, 2; (130123), 3, 1, 0; (132180), 3, 1, 0; (133118), 3, 1, 0; (133987), 6, 2, 3; (147094), 3, 1, 0; (159316), 6, 2, 1; (166987), 2, 1, 0; (174636), 6, 2, 1; (174918), 6, 2, 2; (179296), 3, 1, 0; (179836), 6, 2, 2; (181161), 3, 1, 0; (205819), 3, 1, 0; (208618), 3, 1, 0; (208723), 3, 1, 0; (209613), 5, 2, 1; (212989), 6, 2, 3; (214908), 9, 3, 3; (217345), 5, 2, 3; (218049), 2, 1, 0; (218504), 3, 1, 0; (224753), 3, 1, 0; (225348), 12, 4, 9; (242306), 2, 1, 0; (242776), 3, 1, 0; (247392), 2, 1, 0; (251267), 3, 1, 0; (253304), 6, 2, 1; (260906), 8, 3, 4; (289137), 9, 3, 3; (290433), 3, 1, 0; (302150), 9, 3, 5; (302489), 7, 3, 4; (305670), 3, 1, 0; (314249), 3, 1, 0; (317053), 6, 2, 3; (318664), 6, 2, 1; (319714), 3, 1, 0; (319824), 6, 2, 1; (325569), 2, 1, 0; (331345), 3, 1, 0; (365393), 3, 1, 0; (397487), 6, 2, 5; (399536), 3, 1, 0; (401762), 8, 3, 3; (404515), 3, 1, 0; [545, 126, 14\*, 2014/07/31–2014/09/06]

### I99 Observatorio Blanquita, Vaciamadrid

F. Limon, Paseo Capa Negra, 6, B14, At B, E-28522 Rivas Vaciamadrid, Spain  
[flimon@ea4su.org]

0.20-m  $f/5.7$  Schmidt-Cassegrain + CCD  
CMC-15, USNO-A2.0

2000 PN<sub>8</sub>, 3, 1, 0; 2014 RC, 3, 1, 0; (54686), 3, 1, 0; (276049), 3, 1, 0; (285944), 3, 1, 0; (333578), 3, 1, 0; [18, 6, 0\*, 2014/08/14–2014/09/05]

### J01 Observatorio Cielo Profundo, Oviedo

J. J. Gonzalez, Alejandro Casona 1 4C, E-33013 Oviedo, Spain  
[juanjosegd@telecabla.es]

0.23-m  $f/6$  Schmidt-Cassegrain + CCD  
CMC, USNO-A2.0

(60558), 6, 2, 9; [6, 1, 0\*, 2014/08/15–2014/08/24]

### 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 D. Abreu, P. Ruiz

Measurers H. Bill, M. Busch, F. Hormuth, D. Koschny, M. Micheli, R. Reszelewski, E. Schwab, S. Shurpakov, S. Schmalz, T. Thommes, C. Zorn, U. Carsenty, J. Linder, A. Knöfel, F. Ocaná, C. Liefke, J. Jahn, R. Kresken, P. Schmeer, K. Kida, P. Geffert, A. Heller, R. Kracht

1.0-m  $f/4.4$  reflector + CCD  
USNO-A2.0, UCAC-4, PPMXL

1998 QF<sub>1</sub>, 4, 1, 0; 2001 SY<sub>1</sub>, 4, 1, 0; 2001 SK<sub>34</sub>, 4, 1, 0; 2001 TD<sub>161</sub>, 2, 1, 0; 2002 QW<sub>94</sub>, 4, 1, 0; 2002 QS<sub>98</sub>, 4, 1, 0; 2002 QL<sub>151</sub>, 4, 1, 0; 2002 RD<sub>246</sub>, 2, 1, 0; 2002 RJ<sub>255</sub>, 4, 1, 0; 2002 TY<sub>272</sub>, 4, 1, 0; 2003 CV<sub>16</sub>, 4, 1, 0; 2003 SK<sub>48</sub>, 4, 1, 0; 2003 SY<sub>265</sub>, 4, 1, 0; 2003 SC<sub>313</sub>, 4, 1, 0; 2003 SB<sub>327</sub>, 2, 1, 0; 2003 UW<sub>128</sub>, 4, 1, 0; 2003 UM<sub>149</sub>, 2, 1, 0; 2003 WW<sub>44</sub>, 3, 1, 0; 2003 YF<sub>148</sub>, 3, 1, 0; 2004 PU<sub>106</sub>, 4, 1, 0; 2004 RJ<sub>23</sub>, 4, 1, 0; 2004 RS<sub>256</sub>, 3, 1, 0; 2004 TF<sub>2</sub>, 3, 1, 0; 2004 TV<sub>90</sub>, 3, 1, 0; 2004 TA<sub>322</sub>, 4, 1, 0; 2005 AG<sub>10</sub>, 3, 1, 0; 2005 GB<sub>76</sub>, 3, 1, 0; 2005 JH<sub>65</sub>, 3, 1, 0; 2005 JM<sub>133</sub>, 2, 1, 0; 2005 NB<sub>52</sub>, 3, 1, 0; 2005 OQ<sub>19</sub>, 4, 1, 0; 2005 QK<sub>84</sub>, 4, 1, 0; 2005 QR<sub>93</sub>, 3, 1, 0; 2005 QL<sub>122</sub>, 4, 1, 0; 2005 QX<sub>166</sub>, 4, 1, 0; 2005 QT<sub>189</sub>, 3, 1, 0; 2005 SP<sub>34</sub>, 3, 1, 0; 2005 SV<sub>177</sub>, 3, 1, 0; 2005 SH<sub>188</sub>, 2, 1, 0; 2005 SC<sub>212</sub>, 4, 1, 0; 2005 SX<sub>240</sub>, 4, 1, 0; 2005 SM<sub>267</sub>, 4, 1, 0; 2005 TB<sub>37</sub>, 4, 1, 0; 2005 UX<sub>343</sub>, 4, 1, 0; 2005 UG<sub>388</sub>, 2, 1, 0; 2005 XP<sub>63</sub>, 3, 1, 0; 2005 XK<sub>81</sub>, 2, 1, 0; 2005 YL<sub>268</sub>, 3, 1, 0; 2006 AW<sub>10</sub>, 8, 2, 2; 2006 AS<sub>48</sub>, 3, 1, 0; 2006 AO<sub>68</sub>, 2, 1, 0; 2006 BC<sub>77</sub>, 2, 1, 0; 2006 DO<sub>111</sub>, 3, 1,

0; 2006 DS<sub>111</sub>, 2, 1, 0; 2006 GO<sub>14</sub>, 4, 1, 0; 2006 KZ<sub>53</sub>, 4, 1, 0; 2006 KQ<sub>58</sub>, 3, 1, 0; 2006 RO<sub>86</sub>, 3, 1, 0; 2006 RD<sub>94</sub>, 4, 1, 0; 2006 SR<sub>147</sub>, 2, 1, 0; 2006 SH<sub>208</sub>, 2, 1, 0; 2006 ST<sub>320</sub>, 3, 1, 0; 2006 SX<sub>346</sub>, 4, 1, 0; 2006 SN<sub>408</sub>, 4, 1, 0; 2006 TK<sub>10</sub>, 2, 1, 0; 2006 TN<sub>36</sub>, 3, 1, 0; 2006 TX<sub>68</sub>, 3, 1, 0; 2006 UL<sub>31</sub>, 3, 1, 0; 2006 UU<sub>38</sub>, 2, 1, 0; 2006 UW<sub>53</sub>, 4, 1, 0; 2006 UE<sub>193</sub>, 3, 1, 0; 2006 UQ<sub>203</sub>, 4, 1, 0; 2006 UW<sub>211</sub>, 3, 1, 0; 2006 VZ<sub>35</sub>, 2, 1, 0; 2006 VM<sub>52</sub>, 4, 1, 0; 2006 VT<sub>82</sub>, 2, 1, 0; 2007 BP<sub>22</sub>, 2, 1, 0; 2007 BO<sub>63</sub>, 2, 1, 0; 2007 DH<sub>91</sub>, 4, 1, 0; 2007 EB<sub>152</sub>, 2, 1, 0; 2007 GY<sub>23</sub>, 3, 1, 0; 2007 HG<sub>44</sub>, 3, 1, 0; 2007 PT<sub>19</sub>, 4, 1, 0; 2007 QK<sub>12</sub>, 2, 1, 0; 2007 RU<sub>59</sub>, 4, 1, 0; 2007 RA<sub>72</sub>, 4, 1, 0; 2007 RX<sub>76</sub>, 4, 1, 0; 2007 RU<sub>195</sub>, 3, 1, 0; 2007 RV<sub>233</sub>, 4, 1, 0; 2007 RH<sub>298</sub>, 4, 1, 0; 2007 RP<sub>315</sub>, 4, 1, 0; 2007 TK<sub>9</sub>, 3, 1, 0; 2007 TW<sub>29</sub>, 4, 1, 0; 2007 TN<sub>36</sub>, 2, 1, 0; 2007 TC<sub>79</sub>, 4, 1, 0; 2007 TC<sub>125</sub>, 2, 1, 0; 2007 TZ<sub>137</sub>, 4, 1, 0; 2007 TH<sub>155</sub>, 4, 1, 0; 2007 TN<sub>413</sub>, 4, 1, 0; 2007 TD<sub>428</sub>, 4, 1, 0; 2007 UP<sub>11</sub>, 4, 1, 0; 2007 UE<sub>61</sub>, 4, 1, 0; 2007 UP<sub>84</sub>, 2, 1, 0; 2007 UW<sub>117</sub>, 3, 1, 0; 2007 UC<sub>139</sub>, 3, 1, 0; 2007 VT<sub>11</sub>, 4, 1, 0; 2007 VR<sub>148</sub>, 4, 1, 0; 2007 VX<sub>157</sub>, 3, 1, 0; 2007 VY<sub>297</sub>, 4, 1, 0; 2007 YX<sub>66</sub>, 2, 1, 0; 2008 AU<sub>16</sub>, 2, 1, 0; 2008 AZ<sub>44</sub>, 4, 1, 0; 2008 AD<sub>48</sub>, 2, 1, 0; 2008 CO<sub>65</sub>, 2, 1, 0; 2008 CK<sub>123</sub>, 3, 1, 0; 2008 CK<sub>135</sub>, 3, 1, 0; 2008 DX<sub>6</sub>, 3, 1, 0; 2008 DQ<sub>10</sub>, 2, 1, 0; 2008 DX<sub>74</sub>, 4, 1, 0; 2008 HY<sub>66</sub>, 3, 1, 0; 2008 JN<sub>30</sub>, 6, 2, 2; 2008 KJ<sub>9</sub>, 4, 1, 0; 2008 UR<sub>129</sub>, 3, 1, 0; 2008 YL<sub>62</sub>, 4, 1, 0; 2008 YA<sub>117</sub>, 3, 1, 0; 2009 AE<sub>33</sub>, 3, 1, 0; 2009 BM<sub>88</sub>, 4, 1, 0; 2009 BR<sub>169</sub>, 3, 1, 0; 2009 DV<sub>131</sub>, 3, 1, 0; 2009 FK<sub>77</sub>, 2, 1, 0; 2009 QJ<sub>3</sub>, 4, 1, 0; 2009 QN<sub>28</sub>, 4, 1, 0; 2009 QZ<sub>52</sub>, 4, 1, 0; 2009 RD<sub>45</sub>, 4, 1, 0; 2009 SC<sub>73</sub>, 4, 1, 0; 2009 SH<sub>172</sub>, 4, 1, 0; 2009 SH<sub>192</sub>, 4, 1, 0; 2009 ST<sub>192</sub>, 3, 1, 0; 2009 SG<sub>199</sub>, 4, 1, 0; 2009 SX<sub>211</sub>, 2, 1, 0; 2009 SQ<sub>238</sub>, 4, 1, 0; 2009 SD<sub>277</sub>, 2, 1, 0; 2009 SE<sub>317</sub>, 4, 1, 0; 2009 SW<sub>326</sub>, 4, 1, 0; 2009 SD<sub>327</sub>, 4, 1, 0; 2009 SS<sub>332</sub>, 3, 1, 0; 2009 TK<sub>18</sub>, 4, 1, 0; 2009 UA<sub>7</sub>, 3, 1, 0; 2009 UT<sub>106</sub>, 3, 1, 0; 2009 VT<sub>55</sub>, 4, 1, 0; 2009 WB<sub>8</sub>, 3, 1, 0; 2009 WH<sub>139</sub>, 4, 1, 0; 2009 WA<sub>234</sub>, 4, 1, 0; 2010 BQ<sub>5</sub>, 4, 1, 0; 2010 EA<sub>36</sub>, 3, 1, 0; 2010 HK<sub>61</sub>, 4, 1, 0; 2010 HK<sub>79</sub>, 3, 1, 0; 2010 LT<sub>4</sub>, 1, 0; 2010 LE<sub>67</sub>, 3, 1, 0; 2010 MK<sub>11</sub>, 4, 1, 0; 2010 MA<sub>99</sub>, 4, 1, 0; 2010 NM<sub>17</sub>, 3, 1, 0; 2010 NC<sub>86</sub>, 4, 1, 0; 2010 PT<sub>55</sub>, 3, 1, 0; 2010 RP<sub>1</sub>, 4, 1, 0; 2010 RU<sub>61</sub>, 2, 1, 0; 2010 RE<sub>99</sub>, 4, 1, 0; 2010 RK<sub>101</sub>, 2, 1, 0; 2010 RB<sub>103</sub>, 4, 1, 0; 2010 RH<sub>114</sub>, 4, 1, 0; 2010 RS<sub>150</sub>, 3, 1, 0; 2010 RI<sub>153</sub>, 4, 1, 0; 2010 SH<sub>23</sub>, 4, 1, 0; 2010 SW<sub>27</sub>, 3, 1, 0; 2010 TM<sub>15</sub>, 2, 1, 0; 2010 TR<sub>39</sub>, 2, 1, 0; 2010 TB<sub>10</sub>, 2, 1, 0; 2010 TD<sub>169</sub>, 2, 1, 0; 2010 UP<sub>1</sub>, 2, 1, 0; 2010 UT<sub>20</sub>, 3, 1, 0; 2010 UG<sub>80</sub>, 2, 1, 0; 2010 UC<sub>96</sub>, 4, 1, 0; 2010 UH<sub>105</sub>, 2, 1, 0; 2010 VW<sub>27</sub>, 3, 1, 0; 2010 VO<sub>45</sub>, 2, 1, 0; 2010 VM<sub>131</sub>, 4, 1, 0; 2010 VX<sub>133</sub>, 4, 1, 0; 2010 VH<sub>137</sub>, 4, 1, 0; 2010 VC<sub>205</sub>, 3, 1, 0; 2010 VT<sub>213</sub>, 3, 1, 0; 2010 WB<sub>37</sub>, 4, 1, 0; 2011 AB<sub>16</sub>, 2, 1, 0; 2011 AY<sub>30</sub>, 2, 1, 0; 2011 QY<sub>96</sub>, 3, 1, 0; 2011 UX<sub>11</sub>, 3, 1, 0; 2011 UV<sub>12</sub>, 2, 1, 0; 2011 UG<sub>102</sub>, 2, 1, 0; 2011 UO<sub>170</sub>, 3, 1, 0; 2011 UZ<sub>224</sub>, 4, 1, 0; 2011 UZ<sub>307</sub>, 4, 1, 0; 2011 WY<sub>152</sub>, 4, 1, 0; 2011 YS<sub>17</sub>, 2, 1, 0; 2011 YZ<sub>25</sub>, 2, 1, 0; 2011 YH<sub>62</sub>, 2, 1, 0; 2011 YJ<sub>67</sub>, 3, 1, 0; 2012 BX<sub>15</sub>, 4, 1, 0; 2012 BZ<sub>17</sub>, 2, 1, 0; 2012 BD<sub>62</sub>, 4, 1, 0; 2012 BP<sub>103</sub>, 4, 1, 0; 2012 BK<sub>149</sub>, 3, 1, 0; 2012 CH<sub>1</sub>, 4, 1, 0; 2012 CA<sub>13</sub>, 4, 1, 0; 2012 CP<sub>29</sub>, 4, 1, 0; 2012 CX<sub>37</sub>, 2, 1, 0; 2012 CN<sub>42</sub>, 3, 1, 0; 2012 CV<sub>51</sub>, 2, 1, 0; 2012 DO<sub>51</sub>, 4, 1, 0; 2012 DJ<sub>52</sub>, 4, 1, 0; 2012 DJ<sub>71</sub>, 3, 1, 0; 2012 DT<sub>90</sub>, 4, 1, 0; 2012 DR<sub>97</sub>, 8, 2, 2; 2012 EK<sub>2</sub>, 3, 1, 0; 2012 FL<sub>30</sub>, 4, 1, 0; 2012 KY<sub>3</sub>, 3, 1, 0; 2012 TN<sub>289</sub>, 4, 1, 0; 2013 AT<sub>105</sub>, 4, 1, 0; 2013 AM<sub>168</sub>, 3, 1, 0; 2013 BX<sub>62</sub>, 2, 1, 0; 2013 CK<sub>8</sub>, 2, 1, 0; 2013 CC<sub>13</sub>, 3, 1, 0; 2013 CY<sub>17</sub>, 4, 1, 0; 2013 CU<sub>40</sub>, 8, 2, 2; 2013 CZ<sub>45</sub>, 4, 1, 0; 2013 CZ<sub>51</sub>, 4, 1, 0; 2013 CW<sub>53</sub>, 4, 1, 0; 2013 CP<sub>76</sub>, 3, 1, 0; 2013 CX<sub>86</sub>, 4, 1, 0; 2013 CX<sub>123</sub>, 4, 1, 0; 2013 CM<sub>153</sub>, 2, 1, 0; 2013 CW<sub>172</sub>, 2, 1, 0; 2013 DJ<sub>16</sub>, 3, 1, 0; 2013 EY<sub>2</sub>, 4, 1, 0; 2013 EB<sub>3</sub>, 2, 1, 0; 2013 ER<sub>8</sub>, 4, 1, 0; 2013 EU<sub>14</sub>, 4, 1, 0; 2013 EM<sub>27</sub>, 2, 1, 0; 2013 EZ<sub>83</sub>, 4, 1, 0; 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2014 JS<sub>64</sub>, 3, 1, 0; 2014 JZ<sub>64</sub>, 2, 1, 0; 2014 JD<sub>65</sub>, 4, 1, 0; 2014 JH<sub>65</sub>, 2, 1, 0; 2014 JS<sub>65</sub>, 2, 1, 0; 2014 JV<sub>65</sub>, 3, 1, 0; 2014 JL<sub>66</sub>, 4, 1, 0; 2014 JN<sub>66</sub>, 4, 1, 0; 2014 KL<sub>30</sub>, 4, 1, 0; 2014 KP<sub>39</sub>, 4, 1, 0; 2014 KN<sub>59</sub>, 2, 1, 0; 2014 LT<sub>8</sub>, 3, 1, 0; 2014 LX<sub>10</sub>, 2, 1, 0; 2014 LY<sub>10</sub>, 2, 1, 0; 2014 LV<sub>13</sub>, 4, 1, 0; 2014 LJ<sub>16</sub>, 4, 1, 0; 2014 LW<sub>19</sub>, 3, 1, 0; 2014 LC<sub>28</sub>, 4, 1, 0; 2014 MZ<sub>4</sub>, 4, 1, 0; 2014 MX<sub>5</sub>, 4, 1, 0; 2014 MU<sub>11</sub>, 4, 1, 0; 2014 MM<sub>15</sub>, 4, 1, 0; 2014 MF<sub>20</sub>, 3, 1, 0; 2014 MN<sub>22</sub>, 4, 1, 0; 2014 MO<sub>22</sub>, 4, 1, 0; 2014 MU<sub>22</sub>, 4, 1, 0; 2014 ME<sub>23</sub>, 4, 1, 0; 2014 MV<sub>37</sub>, 4, 1, 0; 2014 MJ<sub>38</sub>, 4, 1, 0; 2014 MK<sub>38</sub>, 3, 1, 0; 2014 MQ<sub>38</sub>, 4, 1, 0; 2014 ME<sub>48</sub>, 3, 1, 0; 2014 MB<sub>60</sub>, 4, 1, 0; 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### J16 An Carraig Observatory, Loughinisland

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0.4-m  $f/6.8$  Cassegrain + CCD

USNO-B1.0

(7236), 3, 1, 0; (276049), 3, 1, 0; [6, 2, 0\*, 2014/09/02]

### J26 The Spaceguard Centre, Knighton

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0.35-m Schmidt-Cassegrain + CCD

USNO-B1.0

(754), 3, 1, 0; (3405), 3, 1, 0; (7489), 3, 1, 0; (37588), 4, 1, 0; [13, 4, 0\*, 2014/08/23]

### J38 Observatorio La Vara, Valdés

F. García, Observatorio La Vara, Valdés, Asturias, Spain

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0.25-m  $f/8.1$  Ritchey-Chrétien + CCD

CMC-15, USNO-A2.0

(22241), 3, 1, 0; (60558), 6, 2, 8; [9, 2, 0\*, 2014/08/16–2014/08/24]

### J43 Oukaïmeden Observatory, Marrakech

Z. Benkhaldoun, Cadi Ayyad University, Physics Department, FSSM, Av. Prince

My Abdellah BP 2390, Marrakech, Morocco [zouhair@ucam.ac.ma]

Observers M. Ory, C. Rinner

0.5-m  $f/3$  reflector + CCD

UCAC-3, USNO-B1.0

1998 QF<sub>1</sub>, 4, 1, 0; 1998 RU<sub>48</sub>, 4, 1, 0; 2000 SP<sub>30</sub>, 4, 1, 0; 2001 BR<sub>32</sub>, 8, 2, 9; 2001 PM<sub>34</sub>, 4, 1, 0; 2001 RV<sub>7</sub>, 4, 1, 0; 2001 SL<sub>323</sub>, 8, 2, 1; 2001 UB<sub>105</sub>, 4, 1, 0; 2003 RV<sub>20</sub>, 4, 1, 0; 2003 SW<sub>33</sub>, 12, 3, 8; 2003 SU<sub>90</sub>, 4, 1, 0; 2003 SF<sub>165</sub>, 4, 1, 0; 2003 SY<sub>431</sub>, 4, 1, 0; 2003 US<sub>57</sub>, 4, 1, 0; 2003 UX<sub>66</sub>, 3, 1, 0; 2004 RQ<sub>72</sub>, 4, 1, 0; 2004 RU<sub>153</sub>, 8, 2, 1; 2004 RR<sub>346</sub>, 4, 1, 0; 2004 VE<sub>53</sub>, 4, 1, 0; 2004 XG<sub>2</sub>, 8,

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(359434), 4, 1, 0; (359517), 4, 1, 0; (359695), 4, 1, 0; (359896), 4, 1, 0; (360187), 8, 2, 3; (360524), 4, 1, 0; (360545), 12, 3, 3; (360680), 4, 1, 0; (360783), 3, 1, 0; (360851), 12, 2, 1; (360880), 4, 1, 0; (360933), 4, 1, 0; (361078), 8, 2, 1; (361208), 4, 1, 0; (361369), 4, 1, 0; (361990), 4, 1, 0; (362154), 4, 1, 0; (362189), 8, 2, 3; (362233), 3, 1, 0; (362276), 4, 1, 0; (362280), 4, 1, 0; (362304), 8, 2, 1; (362349), 8, 2, 10; (362671), 4, 1, 0; (362731), 4, 1, 0; (363217), 8, 2, 1; (363417), 4, 1, 0; (363418), 4, 1, 0; (363508), 4, 1, 0; (363512), 3, 1, 0; (363640), 8, 2, 12; (363687), 4, 1, 0; (363706), 4, 1, 0; (363910), 8, 2, 1; (363931), 4, 1, 0; (363998), 4, 1, 0; (364772), 4, 1, 0; (365001), 8, 2, 2; (365272), 8, 2, 3; (365310), 4, 1, 0; (365331), 4, 1, 0; (365357), 4, 1, 0; (365483), 8, 2, 2; (365600), 16, 4, 8; (366064), 4, 1, 0; (366166), 4, 1, 0; (366629), 4, 1, 0; (367568), 4, 1, 0; (367975), 4, 1, 0; (369984), 4, 1, 0; (3966603), 4, 1, 0; (3966667), 4, 1, 0; (396738), 4, 1, 0; (396746), 4, 1, 0; (397564), 4, 1, 0; (397796), 4, 1, 0; (398074), 4, 1, 0; (398220), 4, 1, 0; (398371), 4, 1, 0; (399038), 4, 1, 0; (399368), 4, 1, 0; (399409), 4, 1, 0; (399441), 4, 1, 0; (399489), 4, 1, 0; (399490), 8, 2, 1; (399510), 12, 3, 5; (399547), 4, 1, 0; (399587), 4, 1, 0; (400106), 4, 1, 0; (400144), 4, 1, 0; (400203), 8, 2, 2; (400289), 4, 1, 0; (400414), 4, 1, 0; (400588), 4, 1, 0; (400757), 4, 1, 0; (400860), 4, 1, 0; (400872), 8, 2, 8; (400894), 4, 1, 0; (401876), 8, 2, 1; (401881), 3, 1, 0; (401926), 4, 1, 0; (402021), 4, 1, 0; (402028), 4, 1, 0; (402152), 4, 1, 0; (402155), 12, 3, 2; (402158), 4, 1, 0; (402250), 4, 1, 0; (402289), 11, 3, 3; (402395), 8, 2, 1; (402530), 4, 1, 0; (402544), 4, 1, 0; (402555), 7, 2, 3; (402563), 4, 1, 0; (402706), 4, 1, 0; (402720), 4, 1, 0; (403194), 4, 1, 0; (403402), 4, 1, 0; (403478), 4, 1, 0; (403491), 4, 1, 0; (403567), 4, 1, 0; (403574), 8, 2, 1; (403642), 12, 3, 13; (403892), 16, 4, 10; (404017), 4, 1, 0; (404373), 4, 1, 0; (404943), 8, 2, 1; [13983, 2355, 57\*, 2013/01/07–2014/09/03]

### J53 Posadas

R. Benavides, Gaitan 20, E-14730 Posadas-Córdoba, Spain

[Rafaelbenpal@hotmail.com]

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

CMC

(276049), 5, 1, 0; (285944), 8, 1, 0; [13, 2, 0\*, 2014/08/24–2014/09/01]

### J69 North Observatory, Clanfield

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

[dbriggs@kepler.demon.co.uk]

0.41-m  $f/4.5$  reflector + CCD

UCAC-4

2014 QY<sub>33</sub>, 3, 1, 0; 2014 QS<sub>168</sub>, 3, 1, 0; (163132), 5, 1, 0; [11, 3, 0\*, 2014/08/12–2014/08/28]

### 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, M. Hurtado, W. K. Y. Yeung, J. A. Jaume,

F. Serra, T. Valls, I. Mas

0.45-m  $f/2.8$  reflector + CCD

UCAC-2

2001 SL<sub>323</sub>, 6, 2, 9; 2004 RX<sub>204</sub>, 3, 1, 0; 2004 SJ<sub>49</sub>, 3, 1, 0; 2005 OA<sub>16</sub>, 3, 1, 0; 2005 SV<sub>116</sub>, 3, 1, 0; 2006 SE<sub>208</sub>, 3, 1, 0; 2006 WJ<sub>25</sub>, 3, 1, 0; 2006 WC<sub>204</sub>, 3, 1, 0; 2007 PB<sub>42</sub>, 3, 1, 0; 2007 VP<sub>123</sub>, 3, 1, 0; 2010 UF<sub>30</sub>, 3, 1, 0; 2011 SG<sub>85</sub>, 3, 1, 0; 2013 HR<sub>11</sub>, 3, 1, 0; 2014 KZ<sub>75</sub>, 3, 1, 0; 2014 MY<sub>2</sub>, 3, 1, 0; 2014 MS<sub>16</sub>, 3, 1, 0; 2014 ML<sub>22</sub>, 3, 1, 0; 2014 MF<sub>38</sub>, 3, 1, 0; 2014 MF<sub>46</sub>, 3, 1, 0; 2014 NX<sub>59</sub>, 3, 1, 0; 2014 OK<sub>3</sub>, 3, 1, 0; 2014 OK<sub>46</sub>, 3, 1, 0; 2014 OY<sub>58</sub>, 3, 1, 0; 2014 OX<sub>59</sub>, 3, 1, 0; 2014 OC<sub>64</sub>, 3, 1, 0; 2014 OH<sub>73</sub>, 3, 1, 0; 2014 OQ<sub>97</sub>, 3, 1, 0; 2014 ON<sub>115</sub>, 3, 1, 0; 2014 OF<sub>127</sub>, 3, 1, 0; 2014 OH<sub>196</sub>, 3, 1, 0; 2014 OG<sub>225</sub>, 3, 1, 0; 2014 OZ<sub>226</sub>, 3, 1, 0; 2014 OE<sub>263</sub>, 3, 1, 0; 2014 OG<sub>344</sub>, 3, 1, 0; 2014 OD<sub>384</sub>, 3, 1, 0; 2014 PQ<sub>30</sub>, 3, 1, 0; 2014 PT<sub>54</sub>, 3, 1, 0; 2014 PD<sub>66</sub>, 3, 1, 0; 2014 PA<sub>70</sub>, 6, 2, 6; 2014 PH<sub>70</sub>, 3, 1, 0; 2014 QP<sub>28</sub>, 3, 1, 0; 2014 QL<sub>32</sub> \*, 6, 1, 0; 2014 QR<sub>32</sub> \*, 12, 3, 4; 2014 QX<sub>32</sub> \*, 9, 2, 1; 2014 QG<sub>33</sub> \*, 6, 2, 2; 2014 QH<sub>33</sub> \*, 6, 1, 0; 2014 QO<sub>33</sub> \*, 9, 1, 0; 2014 QS<sub>40</sub>, 3, 1, 0; 2014 QT<sub>40</sub> \*, 6, 2, 7; 2014 QB<sub>152</sub> \*, 3, 1, 0; 2014 QF<sub>152</sub>, 3, 1, 0; 2014 QS<sub>168</sub> \*, 5, 2, 2; 2014 QV<sub>168</sub> \*, 6, 1, 0; 2014 QW<sub>169</sub> \*, 3, 1, 0; 2014 QZ<sub>179</sub> \*, 6, 2, 4; 2014 QZ<sub>190</sub>, 3, 1, 0; 2014 QE<sub>225</sub>, 3, 1, 0; 2014 QE<sub>249</sub>, 3, 1, 0; 2014 QT<sub>266</sub> \*, 11, 2, 1; 2014 QG<sub>273</sub>, 3, 1, 0; 2014 QM<sub>295</sub> \*, 6, 1, 0; 2014 QY<sub>296</sub> \*, 3, 1, 0; 2014 QA<sub>297</sub>, 3, 1, 0; 2014 QD<sub>297</sub> \*, 6, 2, 7; 2014 QE<sub>297</sub> \*, 3, 1, 0; 2014 QF<sub>297</sub> \*, 3, 1, 0; 2014 QH<sub>297</sub> \*, 3, 1, 0; 2014 QJ<sub>297</sub> \*, 3, 1, 0; 2014 QN<sub>297</sub>, 3, 1, 0; 2014 QO<sub>297</sub>, 6, 1, 0; 2014 QH<sub>336</sub> \*, 3, 1, 0; 2014 QJ<sub>336</sub> \*, 3, 1, 0; 2014 QK<sub>336</sub> \*, 3, 1, 0; 2014 QX<sub>361</sub> \*, 3, 1, 0; 2014 QK<sub>377</sub>, 3, 1, 0; 2014 QM<sub>392</sub> \*, 3, 1, 0; 2014 QL<sub>421</sub> \*, 3, 1, 0; 2014 QM<sub>421</sub> \*, 3, 1, 0; 2014 QN<sub>421</sub> \*, 3, 1, 0; 2014 RP, 3, 1, 0; 2014 RC<sub>3</sub>, 3, 1, 0; (88685), 3, 1, 0; (131928), 3, 1, 0; (223798), 3, 1, 0; (261243), 3, 1, 0; (352539), 3, 1, 0; [322, 86, 28\*, 2007/06/19–2014/08/31]



**J86 Sierra Nevada Observatory**

J. L. Ortiz, Instituto de Astrofísica de Andalucía, Camino Bajo de Huetor 24, E-18008 Granada, Spain [Ortiz@iaa.es]

Observers F. J. Aceituno, V. Casanova, O. Vaduvescu

Measurers A. Thirouin, L. Hudin

1.5-m  $f/8$  reflector + CCD

USNO-B1.0, PPMXL

2014 QB<sub>49</sub>, 22, 1, 0; [22, 1, 0\*, 2014/08/25]

**J87 La Cañada**

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

[juan@lacadanada.es]

0.40-m Ritchey-Chrétien + CCD

UCAC-3

2014 QW<sub>168</sub>, 3, 1, 0; [3, 1, 0\*, 2014/08/24]

**J95 Great Shefford**

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

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

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

UCAC-4

2003 WM<sub>27</sub>, 3, 1, 0; 2014 GQ<sub>49</sub>, 2, 1, 0; 2014 KQ<sub>3</sub>, 3, 1, 0; 2014 MR, 3, 1, 0; 2014 OG<sub>300</sub>, 5, 2, 2; 2014 PS<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PW<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QJ<sub>2</sub>, 3, 1, 0; 2014 QC<sub>3</sub>, 5, 2, 1; 2014 QD<sub>3</sub>, 3, 1, 0; 2014 QE<sub>3</sub>, 2, 1, 0; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QF<sub>33</sub>, 3, 1, 0; 2014 QH<sub>33</sub>, 3, 1, 0; 2014 QP<sub>33</sub>, 6, 2, 1; 2014 QQ<sub>33</sub>, 3, 1, 0; 2014 QT<sub>115</sub>, 6, 2, 1; 2014 QS<sub>168</sub>, 3, 1, 0; 2014 QZ<sub>265</sub>, 11, 3, 5; 2014 QN<sub>266</sub>, 2, 1, 0; 2014 QP<sub>296</sub>, 5, 2, 2; 2014 QR<sub>296</sub>, 3, 1, 0; 2014 QS<sub>296</sub>, 3, 1, 0; 2014 QT<sub>362</sub>, 3, 1, 0; 2014 QV<sub>363</sub>, 3, 1, 0; 2014 QL<sub>365</sub>, 6, 2, 2; 2014 QO<sub>390</sub>, 2, 1, 0; 2014 QC<sub>391</sub>, 3, 1, 0; 2014 QD<sub>391</sub>, 3, 1, 0; 2014 RA, 3, 1, 0; 2014 RC, 2, 1, 0; 2014 RJ, 7, 2, 1; 2014 RC<sub>3</sub>, 3, 1, 0; 2014 RJ<sub>11</sub>, 3, 1, 0; 2014 RZ<sub>11</sub>, 2, 1, 0; (4233), 3, 1, 0; (9189), 2, 1, 0; (15166), 3, 1, 0; (35852), 3, 1, 0; (40215), 3, 1, 0; (45262), 3, 1, 0; (50578), 4, 1, 0; (60747), 3, 1, 0; (78278), 3, 1, 0; (79915), 3, 1, 0; (85802), 3, 1, 0; (139586), 2, 1, 0; (168978), 3, 1, 0; (290433), 3, 1, 0; (307997), 3, 1, 0; (402019), 3, 1, 0; [179, 53, 0\*, 2012/11/10–2014/09/04]

**K14 Observatorio de Sencelles**

M. Morales, Son Fred Rd. 1, 07140 Sencelles, Balearic Island, Spain

[observatorio.de.sencelles@gmail.com]

0.20-m  $f/5$  reflector + CCD

USNO-A2.0, UCAC-4

(156), 3, 1, 0; (409), 3, 1, 0; (584), 4, 1, 0; [10, 3, 0\*, 2014/08/27–2014/08/28]

**K15 Murviel-lès-Montpellier**

G. Sachot, 34570 Murviel-lès-Montpellier, France [g.sachot@free.fr]

0.13-m  $f/7.0$  refractor + CCD

NOMAD

(2060), 8, 2, 2; (59150), 4, 1, 0; [12, 2, 0\*, 2014/08/27–2014/08/30]

**K25 Haute Provence Sud, Saint-Michel-l'Observatoire**

L. Arnold, OHP 04870 Saint-Michel-l'Observatoire, France

[luc.arnold@osupytheas.fr]

0.20-m  $f/5.5$  Newtonian reflector + CCD

UCAC-4

(2060), 3, 1, 0; [3, 1, 0\*, 2014/08/08]

**K27 St-Martin Observatory, Amathay Vésigneux**

N. Esseiva, 31 grande rue, F-25330 Amathay Vésigneux, France

[nico.esseiva@wanadoo.fr]

Observers N. Esseiva, R. Behrend

0.28-m  $f/7$  Schmidt-Cassegrain + CCD

UCAC-2

(788), 18, 1, 0; [18, 1, 0\*, 2014/09/02]

**K30 Lüscherz**

L. Grimm, Hauptstrasse 60, 2576 Lüscherz, Switzerland

[lorenz.grimm@vtxmail.ch]

0.25-m  $f/4.8$  Newtonian reflector + CCD

UCAC-4

(333578), 3, 1, 0; [3, 1, 0\*, 2014/08/22]

**K37 Cereseto**

S. Puccini, Via Garibaldi 45, Casale Monferrato 15033, Italy [starfield@tin.it]

Observers R. Milano, M. Basile, E. Manfredi, S. Puccini

0.40-m  $f/3.9$  reflector + CCD

UCAC-2

(142641), 6, 1, 0; (275611), 9, 1, 0; [15, 2, 0\*, 2014/09/01]

**K38 M57 Observatory, Saltrio**

G. Baj, via Viggiu 35, Saltrio, Varese, Italy [amir31@alice.it]

0.13-m  $f/8$  refractor + CCD, 0.25-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4

2014 QS<sub>168</sub>, 4, 1, 0; 2014 RE<sub>11</sub>, 3, 1, 0; [7, 2, 0\*, 2014/08/23–2014/09/03]

**K39 Serra Observatory**

A. Di Antonio, no details supplied [iz1nei@hotmail.it]

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

UCAC-4

(584), 3, 2, 1; (1922), 8, 4, 17; (3288), 8, 4, 17; [19, 3, 0\*, 2014/07/17–2014/08/03]

**K40 Altdorf**

S. Beck, Eschelbachstr. 17, 71088 Holzgerlingen, Germany

[stefan.beck@cometchaser.de]

0.20-m  $f/2.8$  Newtonian reflector + CCD

UCAC-4

(285944), 6, 2, 5; [6, 1, 0\*, 2014/08/17–2014/08/22]

**K46 Bamberg**

K. Völkel, Kunigundendamm 148, 96050 Bamberg Germany [klaus.voelkel@bnv-bamberg.de]

0.10-m  $f/6.8$  refractor + CCD

UCAC-4

(12), 4, 1, 0; (285), 3, 1, 0; (403), 3, 1, 0; (584), 11, 3, 14; (883), 4, 1, 0; (276049), 3, 1, 0; [28, 6, 0\*, 2014/08/08–2014/09/04]

**K90 Sopot Astronomical Observatory**

V. Benishek, Partizanski put 14, 11450 Sopot, Serbia [vlaben@yahoo.com]

Observer V. Benishek

Measurers V. Benishek, B. Benishek

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

UCAC-4

(1724), 21, 7, 25; (6351), 3, 1, 0; (285944), 46, 7, 13; [70, 3, 0\*, 2014/08/04–2014/08/31]

**K91 Sutherland-LCOGT A**

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

[tlistner@lcogt.net]



Observers T. Lister, P. Miller, E. Gomez, R. Holmes, L. Buzzi, S. Foglia,

T. Vorobjov, T. Linder

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4, PPMXL

2013 AA<sub>65</sub>, 12, 1, 0; 2014 QY<sub>168</sub>, 10, 1, 0; 2014 QY<sub>295</sub>, 3, 1, 0; (285944), 11, 1, 0; [36, 4, 0\*, 2014/08/10–2014/08/25]

### K92 Sutherland-LCOGT B

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

[tlistercogt.net]

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4

2013 BJ<sub>45</sub>, 3, 1, 0; 2014 GY<sub>48</sub>, 6, 1, 0; 2014 ND<sub>44</sub>, 8, 1, 0; 2014 NF<sub>64</sub>, 3, 1, 0; 2014 OD<sub>392</sub>, 4, 1, 0; 2014 QB, 10, 1, 0; 2014 QC, 3, 1, 0; 2014 QE, 2, 1, 0; 2014 QL, 9, 1, 0; 2014 QU<sub>2</sub>, 3, 1, 0; 2014 QY<sub>2</sub>, 8, 1, 0; [59, 11, 0\*, 2014/07/30–2014/08/18]

### K93 Sutherland-LCOGT C

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

[tlistercogt.net]

Observers T. Lister, P. Miller, E. Gomez, R. Holmes, L. Buzzi, S. Foglia,

T. Vorobjov, T. Linder

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4, PPMXL

2001 SX<sub>111</sub>, 5, 1, 0; 2007 TK<sub>367</sub>, 3, 1, 0; 2011 TE<sub>10</sub>, 3, 1, 0; 2014 OH<sub>4</sub>, 10, 1, 0; 2014 PE<sub>51</sub>, 9, 1, 0; 2014 PW<sub>59</sub>, 17, 1, 0; 2014 PU<sub>67</sub>, 9, 1, 0; 2014 PV<sub>67</sub>, 3, 1, 0; 2014 QD, 6, 1, 0; 2014 QM, 6, 1, 0; 2014 QZ<sub>94</sub>, 4, 1, 0; 2014 QQ<sub>239</sub>, 4, 1, 0; 2014 QG<sub>266</sub>, 3, 1, 0; 2014 QJ<sub>266</sub>, 4, 1, 0; 2014 QA<sub>366</sub> \*, 3, 1, 0; (139746), 9, 1, 0; (146545), 7, 1, 0; (252810), 3, 1, 0; (286121), 3, 1, 0; [111, 19, 1\*, 2014/08/15–2014/08/25]

### K94 Sutherland-Elizabeth Telescope

H. Throop, South African Astronomical Observatory, P. O. Box 9, Observatory,

7935, South Africa [henry.throop@gmail.com]

Observer H. Throop

Measurer V. Reddy

1.0-m  $f/16$  reflector + CCD

USNO-B1.0

(3288), 11, 1, 0; (391451), 27, 2, 3; [38, 2, 0\*, 2014/05/31–2014/06/03]

### L04 ROASTERR-1 Observatory, Cluj-Napoca

L. Hudin, Oasului 344C, Cluj Napoca, 400645 Cluj, Romania

[lucian.hudin@gmail.com]

0.3-m  $f/5.0$  reflector + CCD

PPMXL

2006 SC<sub>8</sub>, 3, 1, 0; 2006 SW<sub>247</sub>, 6, 2, 1; 2013 WT<sub>67</sub>, 4, 1, 0; 2014 EZ<sub>48</sub>, 3, 1, 0; 2014 OB<sub>207</sub>, 14, 4, 7; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QF<sub>362</sub>, 3, 1, 0; 2014 QD<sub>433</sub>, 3, 1, 0; 2014 RE<sub>11</sub>, 6, 1, 0; (105), 7, 1, 0; (708), 7, 1, 0; (4851), 3, 1, 0; (13390), 6, 1, 0; (14160), 2, 1, 0; (20631), 3, 1, 0; (22187), 4, 1, 0; (23976), 3, 1, 0; (28602), 2, 1, 0; (143624), 5, 1, 0; (163132), 4, 1, 0; (276049), 5, 1, 0; (285944), 5, 1, 0; (333578), 5, 1, 0; (402073), 2, 1, 0; [108, 24, 0\*, 2014/08/22–2014/09/02]

### L16 Stardreams Observatory, Vălenii de Munte

R. Gherase, Ion Creanga 6C, bl.87, ap. 26, sector 5, Bucharest 050864, Romania

[radu@stardreamsobservatory.com]

0.20-m Ritchey-Chrétien + CCD

PPMXL

(754), 4, 2, 1; (1577), 4, 2, 1; (6859), 4, 2, 1; (12740), 4, 2, 1; [16, 4, 0\*, 2014/07/06–2014/07/07]

### L21 Ostrov Observatory, Constanța

M. Conovici, Sos Pantelimon 74, bl 411, ap 50, sect 2, Bucharest, Romania

[mconovici@gmail.com]

0.09-m  $f/6.2$  refractor + CCD

UCAC-4

(116), 6, 1, 0; (268), 4, 1, 0; (280), 5, 1, 0; (450), 4, 1, 0; (470), 5, 1, 0; (589), 10, 1, 0; (720), 6, 1, 0; (757), 5, 1, 0; (799), 7, 1, 0; (1354), 6, 1, 0; (1544), 4, 1, 0; (2505), 4, 1, 0; (2828), 2, 1, 0; (4678), 3, 1, 0; [71, 14, 0\*, 2014/08/30–2014/08/31]

### L22 Bârlad Observatory

C. Vintdevara, Curator, VP Bârlad Observatory, Str Republicii, no 235, 800340

Bârlad, Vaslui, Romania [barladplanetarium@gmail.com]

Observers C. Vintdevara, A. Dumitriu

0.2-m  $f/4$  Newtonian reflector + CCD

UCAC-4

2014 PR<sub>62</sub>, 4, 1, 0; (163132), 2, 1, 0; (276049), 15, 1, 0; (285944), 20, 1, 0; (333578), 7, 1, 0; [48, 5, 0\*, 2014/08/29]

### L33 Ananjev

N. Mishevskiy, st. Nezavisimosti, h.114g, f.8, Ananjev, 66400Ukraine

[mnn72@ukr.net]

0.25-m  $f/4.7$  reflector + CCD

UCAC-4

(654), 9, 3, 2; (675), 9, 3, 2; (1306), 8, 3, 4; [26, 3, 0\*, 2014/08/06–2014/08/10]

### P34 Lvye Observatory, Suzhou

J. Liu, 23-401 CuKu Lane, Suzhou, JiangSu, China [lyobs@hotmail.com]

0.25-m reflector + CCD

USNO-A2.0

2014 QX<sub>386</sub> \*, 6, 2, 2; 2014 QH<sub>387</sub> \*, 6, 2, 1; [12, 2, 2\*, 2014/08/29–2014/08/31]

### Q62 iTelescope Observatory, Siding Spring

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (1)

M. Urbanik, Moyzesova 1827, Ěadca, 02201, Slovak Republic

[stone@astronomie.cz] (2)

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

[cjacques1f@yahoo.com.br] (5)

N. Falla, 34 Orchard Road, Chessington Surrey, KT9 1AN, U.K.

[n.falla@btopenworld.com] (8)

P. S. Lau, Flat 5B, Block B, Mountain Court, 5 HoManTin Hill Road, Kowloon,

Hong Kong [mail@betty-lau.com] (17)

M. Suzuki, 3-15-25-1301 Motoimaizumi. Utsunomiya, Tochigi 321-0954, Japan

[mtnsuzuki@nifty.com] (25)

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

(27)

J. Liu, no details supplied [824841086jdl@gmail.com] (28)

S. M. Tilley, P.O. BOX 44293, Baton Rouge, LA 70804-4293, U.S.A.

[steveareno225@gmail.com] (30)

S. Kürti, Gugska 27, 940 82 Nove Zamky, Slovakia [stefan@skaw.sk] (33)

M. Mattiazzo, no details supplied [mmatti@westnet.com.au] (36)

Observers P. S. Lau, M. Mattiazzo, S. M. Tilley, N. Paul, M. Urbanik, H. Sato,

C. Jacques, E. Pimentel, J. Barros, N. Falla, K. Sokolovsky, B. Dawson,

M. Suzuki, A. Novichonok, A. J. Evans, R. Ligustri, J. Liu



Measurers P. S. Lau, M. Mattiazzo, S. M. Tilley, N. Paul, M. Urbanik, H. Sato, C. Jacques, N. Falla, B. Dawson, M. Suzuki, T. Prystavski, A. J. Evans, R. Ligustri, J. Liu

0.43-m  $f/6.8$  astrograph + CCD, 0.32-m  $f/7.4$  Ritchey-Chrétien + CCD, 0.51-m  $f/6.8$  astrograph + CCD +  $f/4.5$  focal reducer, 0.70-m  $f/6.6$  astrograph + CCD, 0.1-m  $f/5.0$  astrograph + CCD

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

{17} (1651), 3, 1, 0; (5277), 3, 1, 0; (10348), 4, 1, 0; (13726), 9, 2, 13; (15837), 4, 1, 0; (27476), 3, 1, 0; (29846), 3, 1, 0; (32136), 6, 2, 13; (32768), 12, 3, 13; (42865), 4, 1, 0; (51542), 7, 2, 1; (57340), 3, 1, 0; (62645), 4, 1, 0; (72223), 3, 1, 0; (77236), 7, 2, 1; (97338), 3, 1, 0; (105186), 11, 3, 13; (137988), 3, 1, 0; (162569), 4, 1, 0; (167721), 9, 2, 1; (176801), 13, 2, 1; (209550), 7, 2, 12; (288446), 3, 1, 0; (365380), 3, 1, 0; [131, 24, 0\*, 2014/08/07–2014/08/20]

{1} 2007 VP<sub>76</sub>, 3, 1, 0; 2008 DS<sub>83</sub>, 3, 1, 0; 2013 BL<sub>76</sub>, 3, 1, 0; 2013 GK<sub>136</sub>, 3, 1, 0; 2014 JH<sub>57</sub>, 6, 2, 34; 2014 ON<sub>6</sub>, 6, 2, 6; 2014 OJ<sub>71</sub>, 2, 1, 0; 2014 OK<sub>71</sub>, 2, 1, 0; 2014 OF<sub>104</sub>, 2, 1, 0; 2014 OS<sub>130</sub>, 2, 1, 0; 2014 OR<sub>234</sub>, 2, 1, 0; 2014 OS<sub>343</sub>, 3, 1, 0; 2014 PP<sub>34</sub>, 9, 2, 1; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PP<sub>69</sub>, 6, 2, 2; 2014 QA<sub>33</sub>, 4, 1, 0; 2014 QM<sub>297</sub>, 9, 2, 1; 2014 RC, 4, 1, 0; (3584), 3, 1, 0; (4728), 2, 1, 0; (5403), 6, 2, 1; (5458), 3, 1, 0; (10745), 2, 1, 0; (11619), 2, 1, 0; (12440), 3, 1, 0; (12552), 3, 1, 0; (15825), 2, 1, 0; (18537), 6, 2, 1; (19065), 2, 1, 0; (20620), 6, 2, 1; (21339), 3, 1, 0; (23156), 3, 1, 0; (28765), 3, 1, 0; (28935), 2, 1, 0; (29896), 2, 1, 0; (33246), 3, 1, 0; (35249), 2, 1, 0; (39187), 3, 1, 0; (39823), 2, 1, 0; (40148), 3, 1, 0; (40601), 2, 1, 0; (41282), 2, 1, 0; (51319), 2, 1, 0; (58690), 2, 1, 0; (62820), 2, 1, 0; (63408), 2, 1, 0; (64494), 3, 1, 0; (65927), 2, 1, 0; (66155), 3, 1, 0; (68663), 2, 1, 0; (69104), 2, 1, 0; (71390), 2, 1, 0; (71443), 2, 1, 0; (81044), 3, 1, 0; (81345), 2, 1, 0; (82517), 9, 2, 1; (82837), 2, 1, 0; (91307), 3, 1, 0; (91813), 2, 1, 0; (99865), 9, 2, 1; (114665), 2, 1, 0; (121050), 2, 1, 0; (127715), 3, 1, 0; (128255), 3, 1, 0; (132140), 3, 1, 0; (141358), 2, 1, 0; (147255), 2, 1, 0; (156691), 3, 1, 0; (157044), 2, 1, 0; (157451), 2, 1, 0; (160478), 2, 1, 0; (162827), 2, 1, 0; (167123), 2, 1, 0; (172470), 2, 1, 0; (176796), 9, 2, 1; (176921), 3, 1, 0; (179945), 3, 1, 0; (189911), 2, 1, 0; (202256), 3, 1, 0; (213116), 3, 1, 0; (214929), 9, 2, 1; (221488), 3, 1, 0; (245840), 2, 1, 0; (248247), 3, 1, 0; (256967), 3, 1, 0; (262523), 3, 1, 0; (287670), 2, 1, 0; (309322), 3, 1, 0; (310493), 6, 2, 1; (313642), 8, 2, 1; (314381), 3, 1, 0; (314426), 2, 1, 0; (314549), 3, 1, 0; (316421), 2, 1, 0; (318242), 2, 1, 0; (321958), 2, 1, 0; (362561), 3, 1, 0; (362613), 2, 1, 0; (400274), 2, 1, 0; (400362), 3, 1, 0; (402754), 3, 1, 0; (403064), 3, 1, 0; [323, 102, 0\*, 2014/07/02–2014/09/05]

{2} 2013 WT<sub>67</sub>, 7, 1, 0; 2014 RC, 4, 1, 0; (285944), 4, 1, 0; [15, 3, 0\*, 2014/08/12–2014/09/06]

{5} 2014 PT<sub>59</sub>, 3, 1, 0; [3, 1, 0\*, 2014/08/14]

{8} 2006 TO<sub>1</sub>, 3, 1, 0; 2007 RA<sub>120</sub>, 3, 1, 0; 2009 BD<sub>35</sub>, 4, 1, 0; 2014 NL<sub>64</sub>, 3, 1, 0; 2014 OG<sub>30</sub>, 3, 1, 0; 2014 OR<sub>76</sub>, 3, 1, 0; 2014 OV<sub>343</sub>, 3, 1, 0; 2014 QW<sub>386</sub> \*, 11, 3, 4; (160832), 3, 1, 0; (223957), 3, 1, 0; [39, 10, 1\*, 2013/05/14–2014/09/02]

{36} 2014 JH<sub>57</sub>, 4, 1, 0; 2014 RC, 5, 1, 0; [9, 2, 0\*, 2014/08/07–2014/09/06]

{25} 2014 QA<sub>33</sub>, 4, 2, 2; 2014 QX<sub>33</sub>, 2, 1, 0; [6, 2, 0\*, 2014/08/20–2014/08/23]

{27} 2008 DS<sub>83</sub>, 2, 1, 0; 2014 QL<sub>33</sub>, 6, 1, 0; 2014 QO<sub>33</sub>, 6, 1, 0; (5993), 3, 1, 0; (18735), 3, 1, 0; (35071), 3, 1, 0; (38555), 3, 1, 0; (50273), 3, 1, 0; (69952), 3, 1, 0; (144422), 3, 1, 0; (147466), 3, 1, 0; (152109), 3, 1, 0; (286737), 3, 1, 0; (294998), 3, 1, 0; [47, 14, 0\*, 2014/07/07–2014/08/23]

{28} 2013 GR<sub>41</sub>, 3, 1, 0; (1141), 3, 1, 0; (64092), 3, 1, 0; (196103), 3, 1, 0; (256378), 3, 1, 0; [15, 5, 0\*, 2014/08/31]

{30} 2013 WT<sub>67</sub>, 4, 1, 0; 2014 OZ<sub>337</sub>, 3, 1, 0; 2014 QL<sub>32</sub>, 3, 1, 0; (2555), 3, 1, 0; (7407), 3, 1, 0; (40973), 3, 1, 0; (98333), 3, 1, 0; (306796), 3, 1, 0; [25, 8, 0\*, 2014/08/07–2014/08/20]

{33} 2007 PB<sub>42</sub>, 6, 2, 9; 2014 OA<sub>73</sub>, 3, 1, 0; 2014 PV<sub>66</sub>, 3, 1, 0; [12, 3, 0\*, 2014/07/19–2014/07/28]

### Q63 Siding Spring-LCOGT A

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

[tlist@lco.net]

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4

2014 OV<sub>57</sub>, 5, 1, 0; 2014 OX<sub>340</sub>, 5, 1, 0; 2014 OZ<sub>340</sub>, 5, 1, 0; 2014 OP<sub>391</sub>, 9, 1, 0; 2014 OM<sub>392</sub>, 3, 1, 0; 2014 OT<sub>392</sub>, 4, 1, 0; (285944), 6, 1, 0; [37, 7, 0\*, 2014/07/30–2014/08/09]

### Q64 Siding Spring-LCOGT B

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

[tlist@lco.net]

Observers T. Lister, P. Miller, E. Gomez, R. Holmes, L. Buzzi, S. Foglia, T. Vorobjov

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4

2014 OO<sub>6</sub>, 4, 1, 0; 2014 OY<sub>153</sub>, 6, 1, 0; 2014 PR<sub>1</sub>, 6, 1, 0; 2014 PA<sub>59</sub>, 5, 1, 0; 2014 PO<sub>59</sub>, 6, 1, 0; 2014 QJ<sub>26</sub>, 3, 1, 0; (285944), 9, 1, 0; [39, 7, 0\*, 2014/08/07–2014/08/22]

### Q68 Blue Mountains Observatory, Leura

J. Oey, 94 Rawson pde, Leura NSW 2780, Australia [julianoey@gmail.com]

Observers J. Oey, P. Camilleri, H. Williams

0.34-m  $f/5.9$  Schmidt-Cassegrain + CCD

NOMAD, UCAC-4

(788), 14, 2, 1; (4555), 19, 2, 3; (5510), 6, 1, 0; (97385), 3, 1, 0; (401198), 3, 1, 0; [45, 5, 0\*, 2014/08/09–2014/09/03]

### U69 iTelescope SRO Observatory, Auberry

E. Guido, via Paride del Pozzo 12, Castellammare di Stabia, 80053, Italy

[walcom77@gmail.com] (1)

H. Sato, 46-2-401, Den-en-chofu honcho, Ota-ku, Tokyo, Japan [pite@pc4.so-net.ne.jp] (5)

Observers E. Guido, H. Sato

0.61-m  $f/6.5$  astrograph + CCD

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

{1} 2014 RC, 2, 1, 0; [2, 1, 0\*, 2014/09/05]

{5} 2014 RP<sub>11</sub>, 3, 1, 0; [3, 1, 0\*, 2014/09/05]

{6} (28189), 3, 1, 0; (35269), 3, 1, 0; (131705), 3, 1, 0; (133220), 3, 1, 0; (146102), 3, 1, 0; (308648), 3, 1, 0; (325545), 4, 2, 1; (399813), 3, 1, 0; [25, 8, 0\*, 2014/08/18–2014/08/26]

{9} 2014 PT<sub>59</sub>, 10, 3, 2; [10, 1, 0\*, 2014/08/14–2014/08/16]

### U79 Cosmos Research Center, Encinitas

T. Munnecke, 3377 Lone Hill Lane, Encinitas, CA, U.S.A. [munnecke@gmail.com]

0.11-m  $f/7$  refractor + CCD

GSC-ACT

(1), 3, 1, 0; (4), 3, 1, 0; (45), 2, 2, 1; (54), 2, 1, 0; (65), 2, 1, 0; (74), 2, 1, 0; (165), 2, 1, 0; (201), 2, 1, 0; (203), 2, 1, 0; (206), 2, 1, 0; (218), 2, 1, 0; (221), 2, 1, 0; (3165), 8, 4, 17; [34, 13, 0\*, 2014/07/06–2014/07/29]

### V78 Spirit Marsh Observatory. Sauk Centre

J. Briol, 37187 County Road 29, Sauk Centre, MN, U.S.A. [jfb@cloudnet.com]

0.13-m Newtonian reflector + CCD

MPOSC3

(112), 24, 8, 20; (635), 21, 7, 17; (1197), 2, 1, 0; (276049), 9, 3, 2; [56, 4, 0\*, 2014/08/08–2014/09/06]

### W84 Cerro Tololo-DECam

L. Allen, NOAO, 950 N. Cherry Ave., P.O. Box 26732, Tucson, AZ 85726, U.S.A.

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D. A. Cameron, PAS, U Rochester, Rochester, NY 14627, U.S.A.

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D. Gerdes, Dept. of Physics, University of Michigan, Ann Arbor, MI 48109, U.S.A.

[gerdes@umich.edu] (7)

S. Sonnett, no details supplied [Sarah.Sonnett@jpl.nasa.gov] (8)



Observers A. Walker, D. James, E. E. Mamajek, E. Scott, D. J. James

Measurers D. Gerdes, D. A. Cameron

4.0-m  $f/2.87$  reflector + CCD

2MASS

{5} 2005 TT<sub>75</sub>, 5, 1, 0; 2008 UO<sub>46</sub>, 3, 1, 0; 2008 YE<sub>172</sub>, 5, 1, 0; 2009 BZ<sub>126</sub>, 5, 1, 0; 2010 JX<sub>171</sub>, 3, 1, 0; 2011 SY<sub>104</sub>, 4, 1, 0; 2011 SY<sub>200</sub>, 5, 1, 0; 2011 UA<sub>54</sub>, 4, 1, 0; 2012 UZ<sub>89</sub>, 5, 1, 0; 2014 GZ<sub>25</sub>, 5, 1, 0; 2014 GU<sub>26</sub>, 5, 1, 0; 2014 GU<sub>26</sub>, 5, 1, 0; 2014 GW<sub>30</sub>, 4, 1, 0; 2014 GV<sub>38</sub>, 5, 1, 0; 2014 GQ<sub>41</sub>, 5, 1, 0; 2014 HV<sub>173</sub>, 4, 1, 0; 2014 HL<sub>176</sub>, 4, 1, 0; 2014 HS<sub>181</sub>, 5, 1, 0; 2014 HF<sub>186</sub>, 5, 1, 0; 2014 HL<sub>188</sub>, 5, 1, 0; 2014 HN<sub>188</sub>, 4, 1, 0; 2014 JJ<sub>1</sub>, 4, 1, 0; 2014 JO<sub>1</sub>, 5, 1, 0; 2014 JR<sub>1</sub>, 4, 1, 0; 2014 JV<sub>1</sub>, 5, 1, 0; 2014 JY<sub>1</sub>, 4, 1, 0; 2014 JC<sub>3</sub>, 5, 1, 0; 2014 JM<sub>4</sub>, 5, 1, 0; 2014 JB<sub>5</sub>, 8, 1, 0; 2014 JH<sub>5</sub>, 3, 1, 0; 2014 JW<sub>5</sub>, 4, 1, 0; 2014 JF<sub>6</sub>, 4, 1, 0; 2014 JP<sub>18</sub>, 4, 1, 0; 2014 JX<sub>18</sub>, 5, 1, 0; 2014 JE<sub>19</sub>, 5, 1, 0; 2014 JQ<sub>20</sub>, 3, 1, 0; 2014 JX<sub>21</sub>, 4, 1, 0; 2014 JA<sub>32</sub>, 5, 1, 0; 2014 JY<sub>32</sub>, 5, 1, 0; 2014 JZ<sub>32</sub>, 4, 1, 0; 2014 JH<sub>33</sub>, 4, 1, 0; 2014 JK<sub>33</sub>, 5, 1, 0; 2014 JN<sub>33</sub>, 5, 1, 0; 2014 JP<sub>33</sub>, 5, 1, 0; 2014 JB<sub>34</sub>, 4, 1, 0; 2014 JC<sub>34</sub>, 4, 1, 0; 2014 JR<sub>44</sub>, 4, 1, 0; 2014 JC<sub>45</sub>, 5, 1, 0; 2014 JJ<sub>45</sub>, 3, 1, 0; 2014 JR<sub>45</sub>, 4, 1, 0; 2014 JB<sub>46</sub>, 5, 1, 0; 2014 JD<sub>46</sub>, 3, 1, 0; 2014 JG<sub>46</sub>, 5, 1, 0; 2014 JO<sub>68</sub>, 5, 1, 0; 2014 JV<sub>68</sub>, 5, 1, 0; 2014 KR<sub>4</sub>, 5, 1, 0; 2014 KV<sub>5</sub>, 5, 1, 0; 2014 KL<sub>6</sub>, 5, 1, 0; 2014 KW<sub>6</sub>, 5, 1, 0; 2014 KJ<sub>7</sub>, 5, 1, 0; 2014 KH<sub>8</sub>, 5, 1, 0; 2014 KR<sub>18</sub>, 5, 1, 0; 2014 KU<sub>40</sub>, 5, 1, 0; 2014 KU<sub>46</sub>, 3, 1, 0; 2014 KY<sub>46</sub>, 4, 1, 0; 2014 KB<sub>49</sub>, 5, 1, 0; 2014 KB<sub>50</sub>, 4, 1, 0; 2014 KC<sub>75</sub>, 5, 1, 0; 2014 KZ<sub>75</sub>, 4, 1, 0; 2014 KZ<sub>87</sub>, 3, 1, 0; 2014 KU<sub>89</sub>, 5, 1, 0; 2014 LO<sub>18</sub>, 5, 1, 0; [325, 72, 0\*, 2014/04/22–2014/04/24]

{6} 2005 TX<sub>97</sub>, 3, 1, 0; 2009 FA<sub>55</sub>, 3, 1, 0; 2010 UW<sub>101</sub>, 3, 1, 0; 2013 JX<sub>10</sub>, 3, 1, 0; 2013 JX<sub>53</sub>, 3, 1, 0; 2014 OT<sub>141</sub>, 3, 1, 0; (7073), 3, 1, 0; (9736), 3, 1, 0; (12566), 3, 1, 0; (17772), 3, 1, 0; (19496), 3, 1, 0; (20778), 3, 1, 0; (21815), 3, 1, 0; (23226), 3, 1, 0; (25601), 3, 1, 0; (41788), 3, 1, 0; (55292), 3, 1, 0; (60068), 3, 1, 0; (76105), 3, 1, 0; (76509), 3, 1, 0; (84699), 3, 1, 0; (94782), 3, 1, 0; (100648), 3, 1, 0; (124011), 3, 1, 0; (124550), 3, 1, 0; (130560), 3, 1, 0; (131968), 3, 1, 0; (142997), 3, 1, 0; (151949), 3, 1, 0; (152268), 3, 1, 0; (155190), 3, 1, 0; (165483), 3, 1, 0; (178181), 3, 1, 0; (178320), 3, 1, 0; (182561), 3, 1, 0; (208247), 3, 1, 0; (219144), 3, 1, 0; (223492), 3, 1, 0; (255323), 3, 1, 0; (298428), 3, 1, 0; (303382), 3, 1, 0; (309826), 3, 1, 0; (310920), 3, 1, 0; (311413), 3, 1, 0; (315437), 3, 1, 0; (323595), 3, 1, 0; (363716), 3, 1, 0; (364998), 3, 1, 0; (365313), 3, 1, 0; (400167), 3, 1, 0; (402912), 3, 1, 0; [153, 51, 0\*, 2013/05/31]

{7} 2012 VR<sub>113</sub>, 4, 2, 2; 2012 VS<sub>113</sub>, 4, 2, 2; 2013 QO<sub>95</sub>, 4, 2, 2; 2013 QP<sub>95</sub>, 4, 2, 2; 2013 TV<sub>158</sub>, 4, 2, 2; [20, 5, 0\*, 2014/08/07–2014/08/09]

{8} 2014 PP<sub>69</sub>, 9, 2, 1; [9, 1, 0\*, 2014/08/09–2014/08/10]

### W86 Cerro Tololo-LCOGT B

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

[tlisterc@lcoagt.net]

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4, PPMXL

2001 SX<sub>111</sub>, 3, 1, 0; 2005 XQ<sub>25</sub>, 4, 1, 0; 2006 BH<sub>75</sub>, 5, 1, 0; 2013 JL<sub>48</sub>, 3, 1, 0; 2013 WT<sub>67</sub>, 14, 2, 1; 2014 GP<sub>49</sub>, 6, 1, 0; 2014 OV<sub>3</sub>, 10, 1, 0; 2014 OO<sub>6</sub>, 11, 2, 2; 2014 OV<sub>57</sub>, 3, 1, 0; 2014 OO<sub>211</sub>, 5, 1, 0; 2014 ON<sub>225</sub>, 9, 2, 1; 2014 OZ<sub>340</sub>, 3, 1, 0; 2014 OS<sub>392</sub>, 4, 1, 0; 2014 OT<sub>392</sub>, 5, 1, 0; 2014 PQ<sub>58</sub>, 3, 1, 0; 2014 PR<sub>58</sub>, 7, 1, 0; 2014 PW<sub>58</sub>, 3, 1, 0; 2014 PZ<sub>58</sub>, 3, 1, 0; 2014 PD<sub>59</sub>, 4, 1, 0; 2014 PQ<sub>59</sub>, 9, 1, 0; 2014 PT<sub>59</sub>, 10, 1, 0; 2014 PV<sub>59</sub>, 3, 1, 0; 2014 PX<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 19, 2, 2; 2014 PV<sub>67</sub>, 3, 1, 0; 2014 PW<sub>67</sub>, 7, 1, 0; 2014 PX<sub>67</sub>, 7, 1, 0; 2014 PZ<sub>67</sub>, 3, 1, 0; 2014 PA<sub>68</sub>, 8, 1, 0; 2014 PD<sub>68</sub>, 5, 1, 0; 2014 PE<sub>68</sub>, 4, 1, 0; 2014 PF<sub>68</sub>, 8, 1, 0; 2014 PP<sub>69</sub>, 14, 3, 14; 2014 QC<sub>3</sub>, 1, 0; 2014 QN<sub>5</sub>, 5, 1, 0; 2014 QP<sub>4</sub>, 4, 1, 0; 2014 QZ<sub>1</sub>, 3, 1, 0; 2014 QA<sub>2</sub>, 3, 1, 0; 2014 QF<sub>2</sub>, 4, 1, 0; 2014 QR<sub>2</sub>, 8, 1, 0; 2014 QP<sub>3</sub>, 6, 1, 0; 2014 QQ<sub>3</sub> \*, 7, 1, 0; 2014 QR<sub>3</sub> \*, 7, 1, 0; 2014 QS<sub>3</sub>, 3, 1, 0; 2014 QJ<sub>33</sub>, 7, 1, 0; 2014 QX<sub>33</sub>, 5, 1, 0; 2014 QW<sub>266</sub>, 5, 1, 0; 2014 QR<sub>295</sub>, 3, 1, 0; 2014 QS<sub>295</sub>, 3, 1, 0; 2014 QN<sub>363</sub>, 3, 1, 0; 2014 QN<sub>364</sub>, 5, 1, 0; 2014 QP<sub>364</sub>, 3, 1, 0; 2014 QL<sub>391</sub>, 3, 1, 0; 2014 QY<sub>433</sub>, 3, 1, 0; (23064), 3, 1, 0; (39505), 5, 1, 0; (59119), 3, 1, 0; (115946), 5, 1, 0; (143737), 3, 1, 0; (148939), 3, 1, 0; (153961), 3, 1, 0; (158858), 5, 1, 0; (189945), 3, 1, 0; (251203), 3, 1, 0; (285944), 53, 4, 5; [390, 65, 2\*, 2014/08/01–2014/08/27]

### W87 Cerro Tololo-LCOGT C

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

[tlisterc@lcoagt.net]

1.0-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4

2007 TN<sub>184</sub>, 6, 1, 0; 2009 VC<sub>42</sub>, 8, 1, 0; 2010 LO<sub>127</sub>, 3, 1, 0; 2013 BJ<sub>45</sub>, 6, 1, 0; 2013 WT<sub>67</sub>, 19, 2, 1; 2014 MD<sub>38</sub>, 7, 1, 0; 2014 NO<sub>44</sub>, 7, 1, 0; 2014 ON<sub>225</sub>, 3, 1, 0; 2014 OP<sub>282</sub>, 7, 1, 0; 2014 OA<sub>392</sub>, 3, 1, 0; 2014 OC<sub>392</sub>, 6, 1, 0; 2014 OO<sub>392</sub>, 3, 1, 0; 2014 OP<sub>392</sub>, 4, 1, 0; 2014 OQ<sub>392</sub>, 3, 1, 0;

2014 OT<sub>392</sub>, 3, 1, 0; 2014 PE<sub>51</sub>, 7, 1, 0; 2014 PH<sub>57</sub>, 5, 1, 0; 2014 PU<sub>58</sub>, 6, 1, 0; 2014 PV<sub>58</sub>, 3, 1, 0; 2014 PJ<sub>59</sub>, 6, 1, 0; 2014 PL<sub>59</sub>, 5, 1, 0; 2014 PR<sub>59</sub>, 3, 1, 0; 2014 PU<sub>59</sub>, 5, 1, 0; 2014 PY<sub>59</sub>, 7, 1, 0; 2014 PQ<sub>62</sub>, 3, 1, 0; 2014 PY<sub>67</sub>, 7, 1, 0; 2014 PP<sub>69</sub>, 14, 3, 17; 2014 PQ<sub>69</sub>, 4, 1, 0; 2014 PE<sub>70</sub>, 4, 1, 0; 2014 QG<sub>3</sub>, 3, 1, 0; 2014 QH<sub>4</sub>, 1, 0; 2014 QK<sub>3</sub>, 3, 1, 0; 2014 QN<sub>5</sub>, 5, 1, 0; 2014 QZ<sub>1</sub> \*, 7, 1, 0; 2014 QA<sub>2</sub> \*, 4, 1, 0; 2014 QC<sub>2</sub>, 3, 1, 0; 2014 QD<sub>2</sub>, 5, 1, 0; 2014 QU<sub>2</sub>, 10, 1, 0; 2014 QP<sub>3</sub> \*, 4, 1, 0; 2014 QQ<sub>3</sub>, 3, 1, 0; 2014 QR<sub>3</sub>, 6, 1, 0; 2014 QS<sub>3</sub> \*, 7, 1, 0; 2014 QS<sub>266</sub>, 6, 1, 0; 2014 QR<sub>362</sub>, 5, 1, 0; 2014 QL<sub>363</sub>, 5, 1, 0; 2014 QE<sub>390</sub>, 4, 1, 0; 2014 QV<sub>433</sub>, 5, 1, 0; (7954), 3, 1, 0; (10495), 3, 1, 0; (29434), 5, 1, 0; (35428), 3, 1, 0; (43037), 3, 1, 0; (51077), 6, 1, 0; (80017), 5, 1, 0; (89213), 3, 1, 0; (90146), 6, 1, 0; (115657), 5, 1, 0; (125386), 3, 1, 0; (142805), 5, 1, 0; (158126), 3, 1, 0; (165159), 5, 1, 0; (196755), 5, 1, 0; (259300), 5, 1, 0; (285944), 17, 2, 4; (326871), 5, 1, 0; [346, 65, 4\*, 2014/07/28–2014/08/27]

### W88 Slooh.com Chile Observatory, La Dehesa

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

Observers D. G. Cranford Jr, A. J. Evans, C. E. Drescher

0.35-m  $f/11$  Schmidt-Cassegrain + CCD

UCAC-4

2008 DS<sub>83</sub>, 4, 1, 0; 2013 NK<sub>4</sub>, 5, 1, 0; 2013 WT<sub>67</sub>, 6, 1, 0; 2014 OY<sub>337</sub>, 4, 1, 0; 2014 OZ<sub>337</sub>, 3, 1, 0; 2014 PL<sub>51</sub>, 14, 3, 8; 2014 PT<sub>59</sub>, 3, 1, 0; 2014 PR<sub>62</sub>, 3, 1, 0; 2014 QA<sub>33</sub>, 4, 1, 0; 2014 QH<sub>33</sub>, 4, 1, 0; (61258), 2, 1, 0; (159533), 8, 2, 1; [60, 12, 0\*, 2014/07/19–2014/08/26]

### W96 CAO, San Pedro de Atacama (since 2013)

A. Maury, Casilla 21, 1410000 San Pedro de Atacama, Chile

[amaury@spaceobs.com]

Observers A. Maury, J.-F. Soulier, J.-G. Bosch, T. Noel, A. Oksanen

0.4-m  $f/8$  Ritchey-Chrétien + CCD

UCAC-4, USNO-B1.0

2006 SP<sub>13</sub>, 2, 1, 0; (148970), 2, 1, 0; (170261), 2, 1, 0; [6, 3, 0\*, 2014/08/29–2014/09/04]

### W99 SON San Pedro de Atacama Station

A. Oksanen, Verkkoniementie 30, FI-40950 Muurame, Finland

[arto.oksanen@jklisirius.fi]

Observer A. Oksanen, C. Harlinton

Measurer A. Oksanen

USNO-B1.0

(1000), 6, 2, 4; (1001), 3, 1, 0; (1010), 3, 1, 0; (1013), 3, 1, 0; (1015), 9, 3, 12; (2001), 6, 2, 4; (2007), 6, 2, 4; (2008), 6, 2, 8; [42, 8, 0\*, 2014/08/24–2014/09/05]

### X14 Observatorio Orbis Tertius, Córdoba

M. Santucho, Saravia 1034, Córdoba, Argentina

[observatorioorbistertius@yahoo.com.ar]

0.20-m  $f/5.0$  reflector + CCD

UCAC-4

2014 QA<sub>33</sub>, 3, 1, 0; (112), 3, 1, 0; [6, 2, 0\*, 2014/08/17–2014/08/21]

### X38 Observatorio Pueyrredon, La Lonja

E. Primucci, CC Pueyrredon, Ramal Pilar km 48.5, La Lonja, Argentina

[eprimucci@gmail.com]

Observers E. Primucci, H. Garcia, L. Yasutake, M. Polo

0.25-m reflector + CCD

UCAC-3

2014 PR<sub>62</sub>, 3, 1, 0; [3, 1, 0\*, 2014/08/16]

### Y00 SONEAR Observatory, Oliveira

C. Jacques, Rua Bernardino Sena Figueiredo 348, Belo Horizonte, Brazil

[cjacquesl@gmail.com]

Observers C. Jacques, E. Pimentel, J. Barros

0.45-m  $f/2.9$  reflector + CCD, 0.28-m  $f/2.2$  astrograph + CCD

UCAC-2



1998 QF<sub>1</sub>, 3, 1, 0; 1998 SL<sub>97</sub>, 3, 1, 0; 2000 PN<sub>8</sub>, 3, 1, 0; 2001 QH<sub>327</sub>, 6, 1, 0; 2001 SX<sub>111</sub>, 9, 3, 19; 2001 TO<sub>17</sub>, 3, 1, 0; 2001 VX<sub>85</sub>, 3, 1, 0; 2004 PJ<sub>50</sub>, 6, 2, 5; 2004 PX<sub>75</sub>, 6, 2, 10; 2004 RG<sub>312</sub>, 3, 1, 0; 2004 VX<sub>53</sub>, 3, 1, 0; 2005 BG<sub>2</sub>, 3, 1, 0; 2005 LD<sub>2</sub>, 3, 1, 0; 2005 MC<sub>23</sub>, 3, 1, 0; 2005 QG<sub>156</sub>, 3, 1, 0; 2005 RZ<sub>44</sub>, 3, 1, 0; 2005 SZ<sub>186</sub>, 3, 1, 0; 2005 UT<sub>483</sub>, 3, 1, 0; 2006 KN<sub>100</sub>, 3, 1, 0; 2006 SX<sub>346</sub>, 3, 1, 0; 2006 SV<sub>353</sub>, 3, 1, 0; 2006 SN<sub>408</sub>, 3, 1, 0; 2006 TT<sub>75</sub>, 3, 1, 0; 2007 PE<sub>49</sub>, 3, 1, 0; 2007 RY<sub>4</sub>, 3, 1, 0; 2007 RU<sub>59</sub>, 3, 1, 0; 2007 TC<sub>79</sub>, 3, 1, 0; 2007 TN<sub>171</sub>, 3, 1, 0; 2007 UP<sub>11</sub>, 12, 4, 7; 2007 VF<sub>7</sub>, 3, 1, 0; 2008 DL<sub>49</sub>, 3, 1, 0; 2009 FC<sub>66</sub>, 9, 2, 3; 2009 OD<sub>25</sub>, 3, 1, 0; 2009 SJ<sub>98</sub>, 3, 1, 0; 2009 ST<sub>234</sub>, 3, 1, 0; 2009 SV<sub>234</sub>, 6, 2, 11; 2009 TM<sub>7</sub>, 3, 1, 0; 2010 MA<sub>107</sub>, 3, 1, 0; 2010 NP<sub>68</sub>, 6, 2, 15; 2010 PQ<sub>63</sub>, 18, 6, 15; 2011 RB<sub>17</sub>, 6, 2, 9; 2011 ST<sub>232</sub>, 6, 2, 6; 2011 UY<sub>8</sub>, 3, 1, 0; 2011 UY<sub>321</sub>, 3, 1, 0; 2012 BL<sub>32</sub>, 6, 2, 1; 2012 KY<sub>3</sub>, 3, 1, 0; 2013 CZ<sub>45</sub>, 3, 1, 0; 2013 CJ<sub>47</sub>, 3, 1, 0; 2013 CJ<sub>82</sub>, 3, 1, 0; 2013 EW<sub>118</sub>, 6, 2, 7; 2013 NK<sub>4</sub>, 3, 1, 0; 2013 WT<sub>67</sub>, 6, 2, 1; 2014 HF<sub>177</sub>, 3, 1, 0; 2014 JL<sub>2</sub>, 12, 3, 2; 2014 JR<sub>15</sub>, 6, 2, 1; 2014 JR<sub>57</sub>, 3, 1, 0; 2014 KE<sub>92</sub>, 6, 2, 8; 2014 LC<sub>15</sub>, 3, 1, 0; 2014 LT<sub>21</sub>, 6, 2, 8; 2014 MZ<sub>4</sub>, 3, 1, 0; 2014 MB<sub>13</sub>, 6, 2, 10; 2014 MT<sub>38</sub>, 6, 2, 9; 2014 MV<sub>38</sub>, 3, 1, 0; 2014 NE<sub>50</sub>, 3, 1, 0; 2014 NY<sub>51</sub>, 3, 1, 0; 2014 NA<sub>52</sub>, 3, 1, 0; 2014 NY<sub>59</sub>, 3, 1, 0; 2014 NG<sub>60</sub>, 3, 1, 0; 2014 OA<sub>2</sub>, 3, 1, 0; 2014 OC<sub>64</sub>, 3, 1, 0; 2014 OZ<sub>74</sub>, 3, 1, 0; 2014 OP<sub>101</sub>, 3, 1, 0; 2014 OJ<sub>129</sub>, 6, 2, 10; 2014 OV<sub>230</sub>, 3, 1, 0; 2014 OF<sub>257</sub>, 6, 2, 1; 2014 OA<sub>307</sub>, 9, 3, 20; 2014 OO<sub>337</sub>, 3, 1, 0; 2014 OD<sub>344</sub>, 9, 3, 10; 2014 OM<sub>390</sub>, 3, 1, 0; 2014 PA<sub>3</sub>, 1, 0; 2014 PF<sub>6</sub>, 2, 2; 2014 PV<sub>24</sub>, 3, 1, 0; 2014 PL<sub>58</sub>, 3, 1, 0; 2014 PA<sub>59</sub>, 3, 1, 0; 2014 PT<sub>59</sub> \*, 6, 2, 9; 2014 PR<sub>62</sub> \*, 12, 3, 12; 2014 PW<sub>69</sub> \*, 6, 2, 1; 2014 PY<sub>69</sub> \*, 3, 1, 0; 2014 PA<sub>70</sub>, 6, 2, 4; 2014 QK<sub>3</sub>, 1, 0; 2014 QQ \*, 21, 7, 15; 2014 QF<sub>32</sub> \*, 18, 6, 6; 2014 QL<sub>32</sub>, 3, 1, 0; 2014 QA<sub>33</sub> \*, 18, 5, 7; 2014 QO<sub>33</sub>, 12, 4, 8; 2014 QX<sub>33</sub>, 6, 2, 5; 2014 QT<sub>40</sub>, 6, 2, 6; 2014 QX<sub>42</sub> \*, 18, 6, 16; 2014 QD<sub>161</sub>, 6, 2, 1; 2014 QY<sub>162</sub>, 9, 3, 3; 2014 QD<sub>166</sub>, 9, 3, 6; 2014 QZ<sub>190</sub>, 9, 3, 10; 2014 QG<sub>273</sub>, 3, 1, 0; 2014 QW<sub>296</sub> \*, 12, 4, 15; 2014 QE<sub>297</sub>, 3, 1, 0; 2014 QK<sub>297</sub> \*, 12, 4, 3; 2014 QJ<sub>387</sub> \*, 3, 1, 0; (1), 9, 3, 11; (4), 3, 1, 0; (9), 3, 1, 0; (12), 3, 1, 0; (21), 9, 3, 20; (23), 3, 1, 0; (26), 3, 1, 0; (28), 3, 1, 0; (34), 3, 1, 0; (36), 6, 2, 11; (40), 3, 1, 0; (43), 6, 2, 3; (45), 3, 1, 0; (46), 3, 1, 0; (49), 6, 2, 5; (52), 3, 1, 0; (57), 3, 1, 0; (60), 3, 1, 0; (62), 6, 2, 6; (65), 6, 2, 14; (68), 6, 2, 27; (70), 3, 1, 0; (74), 6, 2, 14; (75), 12, 3, 26; (77), 3, 1, 0; (80), 3, 1, 0; (91), 3, 1, 0; (96), 6, 2, 6; (97), 3, 1, 0; (100), 6, 2, 15; (105), 3, 1, 0; (112), 3, 1, 0; (113), 3, 1, 0; (117), 3, 1, 0; (119), 3, 1, 0; (121), 6, 2, 3; (127), 3, 1, 0; (131), 6, 2, 20; (140), 3, 1, 0; (143), 3, 1, 0; (145), 3, 1, 0; (147), 3, 1, 0; (152), 3, 1, 0; (156), 3, 1, 0; (162), 6, 2, 5; (171), 3, 1, 0; (172), 6, 2, 19; (175), 6, 2, 15; (177), 6, 2, 15; (180), 3, 1, 0; (181), 9, 3, 20; (187), 3, 1, 0; (200), 3, 1, 0; (201), 9, 3, 11; (202), 3, 1, 0; (204), 3, 1, 0; (211), 3, 1, 0; (212), 3, 1, 0; (213), 3, 1, 0; (220), 9, 2, 3; (221), 3, 1, 0; (225), 3, 1, 0; (232), 6, 2, 14; (235), 9, 3, 14; (242), 3, 1, 0; (243), 6, 2, 6; (245), 3, 1, 0; (247), 15, 4, 16; (248), 3, 1, 0; (253), 3, 1, 0; (257), 6, 2, 19; (269), 9, 3, 16; (272), 3, 1, 0; (275), 9, 3, 12; (281), 9, 3, 20; (283), 3, 1, 0; (285), 3, 1, 0; (288), 3, 1, 0; (297), 6, 2, 21; (299), 9, 2, 3; (301), 6, 2, 10; (311), 6, 2, 14; (313), 6, 2, 20; (314), 3, 1, 0; (329), 3, 1, 0; (331), 6, 2, 7; (342), 3, 1, 0; (343), 6, 2, 3; (348), 9, 3, 20; (352), 6, 2, 3; (361), 3, 1, 0; (363), 3, 1, 0; (369), 3, 1, 0; (371), 3, 1, 0; (373), 6, 2, 1; (374), 3, 1, 0; (375), 3, 1, 0; (387), 3, 1, 0; (395), 6, 2, 7; (399), 12, 4, 14; (401), 3, 1, 0; (402), 3, 1, 0; (406), 3, 1, 0; (410), 3, 1, 0; (411), 6, 2, 9; (412), 3, 1, 0; (413), 3, 1, 0; (416), 3, 1, 0; (417), 6, 2, 9; (420), 9, 2, 3; (427), 3, 1, 0; (430), 3, 1, 0; (446), 3, 1, 0; (448), 3, 1, 0; (451), 3, 1, 0; (457), 3, 1, 0; (458), 3, 1, 0; (459), 9, 3, 21; (463), 3, 1, 0; (467), 3, 1, 0; (468), 6, 2, 23; (469), 3, 1, 0; (474), 3, 1, 0; (478), 9, 3, 27; (481), 3, 1, 0; (488), 6, 2, 14; (489), 3, 1, 0; (495), 3, 1, 0; (498), 3, 1, 0; (500), 12, 3, 27; (503), 3, 1, 0; (504), 3, 1, 0; (515), 3, 1, 0; (517), 3, 1, 0; (523), 3, 1, 0; (534), 3, 1, 0; (540), 3, 1, 0; (548), 9, 3, 13; (553), 3, 1, 0; (556), 6, 2, 12; (557), 3, 1, 0; (559), 3, 1, 0; (561), 6, 2, 2; (563), 3, 1, 0; (578), 9, 3, 2; (579), 3, 1, 0; (585), 3, 1, 0; (586), 3, 1, 0; (587), 3, 1, 0; (592), 3, 1, 0; (593), 9, 3, 16; (594), 3, 1, 0; (596), 3, 1, 0; (598), 3, 1, 0; (600), 9, 3, 11; (604), 3, 1, 0; (605), 6, 2, 6; (606), 3, 1, 0; (609), 3, 1, 0; (610), 6, 2, 9; (630), 3, 1, 0; (634), 3, 1, 0; (636), 3, 1, 0; (637), 3, 1, 0; (640), 3, 1, 0; (642), 9, 3, 19; (654), 9, 3, 29; (657), 3, 1, 0; (662), 3, 1, 0; (665), 3, 1, 0; (672), 6, 2, 12; (681), 3, 1, 0; (683), 3, 1, 0; (698), 6, 2, 9; (700), 6, 2, 2; (701), 6, 2, 14; (705), 12, 4, 18; (713), 3, 1, 0; (715), 3, 1, 0; (716), 3, 1, 0; (723), 3, 1, 0; (725), 6, 2, 1; (728), 3, 1, 0; (735), 6, 2, 10; (739), 6, 2, 17; (745), 3, 1, 0; (749), 3, 1, 0; (750), 3, 1, 0; (754), 3, 1, 0; (758), 3, 1, 0; (760), 3, 1, 0; (762), 3, 1, 0; (769), 6, 2, 3; (771), 3, 1, 0; (772), 6, 2, 3; (775), 3, 1, 0; (778), 12, 4, 17; (782), 6, 2, 14; (784), 6, 2, 1; (785), 6, 2, 9; (790), 6, 2, 14; (794), 6, 2, 6; (795), 3, 1, 0; (801), 3, 1, 0; (805), 3, 1, 0; (810), 15, 4, 26; (813), 6, 2, 19; (814), 3, 1, 0; (815), 6, 2, 16; (817), 3, 1, 0; (819), 12, 4, 13; (821), 6, 2, 12; (829), 3, 1, 0; (837), 3, 1, 0; (841), 6, 2, 4; (849), 3, 1, 0; (852), 3, 1, 0; (857), 3, 1, 0; (861), 3, 1, 0; (866), 3, 1, 0; (869), 2, 1, 0; (883), 12, 4, 17; (885), 3, 1, 0; (888), 3, 1, 0; (904), 9, 3, 11; (913), 6, 2, 2; (921), 6, 2, 10; (925), 3, 1, 0; (929), 6, 2, 12; (931), 3, 1, 0; (943), 3, 1, 0; (950), 3, 1, 0; (951), 3, 1, 0; (953), 3, 1, 0; (958), 3, 1, 0; (963), 6, 2, 23; (966), 9, 3, 15; (967), 3, 1, 0; (971), 3, 1, 0; (975), 3, 1, 0; (976), 6, 2, 14; (982), 3, 1, 0; (1000), 6, 2, 6; (1001), 3, 1, 0; (1013), 6, 2, 9; (1016), 3, 1, 0; (1020), 6, 2, 6; (1024), 3, 1, 0; (1026), 3, 1, 0; (1028), 6, 1, 0; (1032), 3, 1, 0; (1034), 3, 1, 0; (1039), 3, 1, 0; (1041), 3, 1, 0; (1042), 3, 1, 0; (1045), 6, 2, 6; (1046), 3, 1, 0; (1050), 6, 2, 5; (1052), 6, 2, 3; (1054), 12, 4, 21; (1057), 3, 1, 0; (1068), 6, 2, 12; (1069), 3, 1, 0; (1072), 3, 1, 0; (1077), 3, 1, 0; (1078), 6, 2, 5; (1081), 6, 2, 1; (1087), 3, 1, 0; (1091), 3, 1, 0; (1092), 3, 1, 0; (1093), 3, 1, 0; (1094), 3, 1, 0; (1097), 6, 2, 1; (1102), 3, 1, 0; (1106), 12, 4, 17; (1114), 6, 2, 1; (1115), 6, 2, 9; (1120), 3, 1, 0; (1123), 3, 1, 0; (1128), 3, 1, 0; (1136), 3, 1, 0; (1141), 6, 2, 9; (1144), 6, 2, 1; (1146), 9, 3, 11; (1148), 3, 1, 0; (1152), 3, 1, 0; (1155), 6, 2, 13; (1161), 3, 1, 0; 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### Z39 Observatorio Costa Tegui

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Observers A. D. Acosta, C. Gil

Measurers S. Acosta, A. Sofia, A. Silvia

0.12-m  $f/7.5$  refractor

UCAC-4

(660), 18, 4, 53; (690), 6, 2, 4; (788), 17, 4, 53; [41, 3, 0\*, 2014/06/08-2014/07/30]

### Z72 Cademuir Observatory, Dalkey

A. White, 1 Burmah Close, Dalkey, Co. Dublin, Ireland [albert@albertwhite.ie]

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

UCAC-4

(16636), 2, 1, 0; (250458), 2, 1, 0; [4, 2, 0\*, 2014/08/30]

### Z81 Observatorio Estrella de Mar

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

UCAC-4

1988 PF<sub>1</sub>, 15, 5, 16; 1998 QD<sub>2</sub>, 3, 1, 0; 2000 QX<sub>160</sub>, 3, 1, 0; 2003 UH<sub>269</sub>, 17, 6, 28; 2005 UR<sub>76</sub>, 6, 2, 1; 2005 YT<sub>122</sub>, 5, 2, 5; 2006 YS<sub>13</sub>, 11, 4, 10; 2008 OB<sub>9</sub>, 6, 2, 1; 2009 SJ<sub>98</sub>, 7, 2, 9; 2010 PF, 9, 3, 7; 2010 TB<sub>150</sub>, 3, 1, 0; 2014 NQ<sub>63</sub>, 3, 1, 0; 2014 OL, 3, 1, 0; 2014 QM<sub>295</sub>, 4, 1, 0; (2104), 3, 1, 0; (15449), 4, 1, 0; (23385), 3, 1, 0; (27028), 3, 1, 0; (34166), 3, 1, 0; (37562), 3, 1, 0; (42889), 3, 1, 0; (87309), 6, 2, 2; (101888), 6, 2, 1; (143624), 3, 1, 0; (276049), 18, 6, 23; (277616), 6, 2, 2; (285944),



21, 7, 15; (333578), 6, 2, 2; (396738), 19, 7, 18; (396754), 6, 2, 18; (399365), 3, 1, 0; (399376), 3, 1, 0; (399564), 6, 2, 1; (400294), 3, 1, 0; (402024), 3, 1, 0; [226, 35, 0\*, 2014/08/07–2014/09/06]

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

### C/2001 O2 (NEAT)

Epoch 1999 Oct. 29.0 TT = JDT 2451480.5

<i>T</i>	1999 Oct. 17.20279 TT			MPC	
<i>q</i>	4.8187626		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0003980	$\omega$	280.87040	+0.16920155	+0.83788670
	$\pm 0.0000173$	$\Omega$	328.73337	+0.31288062	-0.54497722
<i>e</i>	0.9980821	<i>i</i>	90.89973	-0.93459967	-0.03075230

From 63 observations 2001 July 25–2002 Aug. 27, mean residual 0".6.

### C/2006 S3 (LONEOS)

Epoch 2012 Apr. 23.0 TT = JDT 2456040.5

<i>T</i>	2012 Apr. 16.32806 TT			MPC	
<i>q</i>	5.1311651		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0006883	$\omega$	140.12987	-0.21556175	-0.96492707
	$\pm 0.0000001$	$\Omega$	38.37083	-0.94614139	+0.24434496
<i>e</i>	1.0035320	<i>i</i>	166.03264	-0.24155664	-0.09597549

From 5421 observations 2006 Aug. 29–2014 Aug. 12, mean residual 0".6.

### C/2008 S3 (Boattini)

Epoch 2011 June 8.0 TT = JDT 2455720.5

<i>T</i>	2011 June 7.40045 TT			MPC	
<i>q</i>	8.0178693		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0001255	$\omega$	39.96439	+0.94225498	+0.23006192
	$\pm 0.0000004$	$\Omega$	54.94139	+0.17645151	-0.95869142
<i>e</i>	1.0010061	<i>i</i>	162.70400	+0.28464085	-0.16727901

From 1644 observations 2006 Dec. 27–2014 Aug. 20, mean residual 0".6.

### C/2009 F4 (McNaught)

Epoch 2011 Dec. 25.0 TT = JDT 2455920.5

<i>T</i>	2011 Dec. 31.89361 TT			MPC	
<i>q</i>	5.4548560		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0002878	$\omega$	260.38353	+0.04749643	+0.61014540
	$\pm 0.0000002$	$\Omega$	53.58445	+0.16282528	+0.77643866
<i>e</i>	1.0015699	<i>i</i>	79.34759	-0.98551104	+0.15768830

From 993 observations 2009 Mar. 19–2014 July 3, mean residual 0".5.

### C/2010 S1 (LINEAR)

Epoch 2013 May 28.0 TT = JDT 2456440.5

<i>T</i>	2013 May 20.29842 TT			MPC	
<i>q</i>	5.8998991		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0003248	$\omega$	118.61464	+0.53547218	-0.22396626
	$\pm 0.0000001$	$\Omega$	93.43035	-0.69560011	-0.66377740
<i>e</i>	1.0019166	<i>i</i>	125.33579	+0.47896767	-0.71360962

From 7968 observations 2010 Sept. 21–2014 Sept. 2, mean residual 0".5.

### C/2010 U3 (Boattini)

Epoch 2019 Mar. 18.0 TT = JDT 2458560.5

<i>T</i>	2019 Feb. 26.61030 TT			MPC	
<i>q</i>	8.4456955		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0001936	$\omega$	88.08500	-0.36202603	-0.74306647
	$\pm 0.0000021$	$\Omega$	43.06717	+0.07256948	-0.62443112
<i>e</i>	0.9983652	<i>i</i>	55.51209	+0.92933892	-0.24070311

From 230 observations 2010 Oct. 31–2014 Aug. 29, mean residual 0".6.

### C/2011 J2 (LINEAR)

Epoch 2013 Dec. 14.0 TT = JDT 2456640.5

<i>T</i>	2013 Dec. 25.29294 TT			MPC	
<i>q</i>	3.4434376		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0001482	$\omega$	85.29304	+0.07042456	+0.97005811
	$\pm 0.0000002$	$\Omega$	163.94725	+0.16358607	-0.24109356
<i>e</i>	1.0005103	<i>i</i>	122.79883	+0.98401219	-0.02934554

From 3846 observations 2011 Mar. 10–2014 Sept. 6, mean residual 0".5.

### C/2011 KP<sub>36</sub> (Spacewatch)

Epoch 2016 May 12.0 TT = JDT 2457520.5

<i>T</i>	2016 May 26.90039 TT			MPC	
<i>q</i>	4.8833353		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0260353	$\omega$	180.59786	+0.99445305	+0.09830986
	$\pm 0.0000000$	$\Omega$	173.40017	-0.09510138	+0.99227910
<i>e</i>	0.8728610	<i>i</i>	18.98678	-0.04493168	+0.07561318

From 428 observations 2011 May 21–2014 Aug. 31, mean residual 0".4.



**C/2011 L4 (PANSTARRS)**

Epoch 2013 Mar. 9.0 TT = JDT 2456360.5

<i>T</i>	2013 Mar. 10.16991 TT		MPC	
<i>q</i>	0.3015446	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0001076	$\omega$ 333.65163	+0.41005881	+0.10048670
	±0.0000001	$\Omega$ 65.66585	+0.90783463	+0.05058135
<i>e</i>	1.0000325	<i>i</i> 84.20822	−0.08768158	+0.99365183

From 5024 observations 2011 May 21–2014 Aug. 26, mean residual 0<sup>''</sup>.5.

**C/2012 A2 (LINEAR)**

Epoch 2012 Nov. 9.0 TT = JDT 2456240.5

<i>T</i>	2012 Nov. 5.09142 TT		MPC	
<i>q</i>	3.5374706	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0010317	$\omega$ 101.66964	+0.08481625	+0.98342899
	±0.0000002	$\Omega$ 191.40403	+0.23708636	+0.13627192
<i>e</i>	0.9963505	<i>i</i> 125.86864	+0.96777903	−0.11957169

From 2479 observations 2011 Apr. 2–2014 Sept. 3, mean residual 0<sup>''</sup>.5.

**P/2012 B1 (PANSTARRS)**

Epoch 2013 July 7.0 TT = JDT 2456480.5

<i>T</i>	2013 July 23.11084 TT		MPC	
<i>q</i>	3.8251542	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.05958138	$\omega$ 162.17682	−0.94742177	+0.31023858
<i>a</i>	6.4922566	$\Omega$ 36.19683	−0.30736693	−0.81421137
<i>e</i>	0.4108128	<i>i</i> 7.62724	−0.08898071	−0.49072585
<i>P</i>	16.5			

From 1122 observations 1997 June 1–2014 Aug. 13, mean residual 0<sup>''</sup>.5.

**C/2012 F3 (PANSTARRS)**

Epoch 2015 Apr. 8.0 TT = JDT 2457120.5

<i>T</i>	2015 Apr. 6.68413 TT		MPC	
<i>q</i>	3.4568262	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0005101	$\omega$ 104.02439	−0.01875356	+0.99845841
	±0.0000005	$\Omega$ 164.61230	−0.97640398	−0.00704640
<i>e</i>	1.0017632	<i>i</i> 11.35433	−0.21513615	−0.05505591

From 973 observations 2012 Jan. 19–2014 Sept. 5, mean residual 0<sup>''</sup>.4.

**C/2012 F6 (Lemmon)**

Epoch 2013 Mar. 9.0 TT = JDT 2456360.5

<i>T</i>	2013 Mar. 24.51504 TT		MPC	
<i>q</i>	0.7312477	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0020240	$\omega$ 304.98801	+0.46128520	+0.76193479
	±0.0000001	$\Omega$ 332.71473	−0.00393808	−0.51061791
<i>e</i>	0.9985200	<i>i</i> 82.60800	−0.88724318	+0.39840272

From 3032 observations 2012 Jan. 22–2014 Aug. 31, mean residual 0<sup>''</sup>.4.

**C/2012 J1 (Catalina)**

Epoch 2012 Dec. 19.0 TT = JDT 2456280.5

<i>T</i>	2012 Dec. 7.24026 TT		MPC	
<i>q</i>	3.1587104	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0004528	$\omega$ 147.27406	+0.84721832	−0.26315992
	±0.0000002	$\Omega$ 235.21726	+0.27903592	+0.95964392
<i>e</i>	1.0014302	<i>i</i> 34.18597	+0.45206202	−0.09914837

From 4326 observations 2012 May 13–2014 Mar. 21, mean residual 0<sup>''</sup>.4.

**C/2012 K1 (PANSTARRS)**

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

<i>T</i>	2014 Aug. 27.65587 TT		MPC	
<i>q</i>	1.0545309	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0001974	$\omega$ 203.10777	−0.47150373	+0.78072064
	±0.0000003	$\Omega$ 317.73800	+0.87392501	+0.47592329
<i>e</i>	1.0002082	<i>i</i> 142.42832	+0.11806484	−0.40493494

From 5878 observations 2012 May 14–2014 July 7, mean residual 0<sup>''</sup>.4.

**C/2012 K6 (McNaught)**

Epoch 2013 May 28.0 TT = JDT 2456440.5

<i>T</i>	2013 May 21.49619 TT		MPC	
<i>q</i>	3.3530813	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0001575	$\omega$ 338.83323	−0.71568394	−0.62148138
	±0.0000003	$\Omega$ 206.89892	−0.49561730	+0.13042484
<i>e</i>	0.9994719	<i>i</i> 135.21936	−0.49209754	+0.77249612

From 1015 observations 2012 May 27–2014 July 27, mean residual 0<sup>''</sup>.4.

**C/2012 K8 (Lemmon)**

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

<i>T</i>	2014 Aug. 19.35249 TT		MPC	
<i>q</i>	6.4630060	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0002901	$\omega$ 75.85123	−0.03131304	−0.70868909
	±0.0000007	$\Omega$ 312.80742	−0.70286442	+0.51697763
<i>e</i>	1.0018747	<i>i</i> 106.11185	+0.71063430	+0.48009781

From 660 observations 2012 May 30–2014 Sept. 3, mean residual 0<sup>''</sup>.5.

**C/2012 S1 (ISON)**

Epoch 2013 Dec. 14.0 TT = JDT 2456640.5

<i>T</i>	2013 Nov. 28.77905 TT		MPC	
<i>q</i>	0.0124560	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0200414	$\omega$ 345.53761	+0.31489415	+0.51249503
		$\Omega$ 295.65228	−0.75876058	−0.36972295
<i>e</i>	1.0002496	<i>i</i> 62.40148	−0.57019651	+0.77501857

From 6259 observations 2011 Sept. 30–2013 Nov. 22, mean residual 0<sup>''</sup>.6.  
Nongravitational parameters  $A_1 = +7.87$ ,  $A_2 = +0.6396$ .

**C/2012 U1 (PANSTARRS)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 July 4.89707 TT		MPC	
<i>q</i>	5.2637199	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0000835	$\omega$ 70.07062	+0.06733641	−0.92350206
	±0.0000014	$\Omega$ 26.98200	+0.25668302	−0.34972147
<i>e</i>	0.9995603	<i>i</i> 56.33888	+0.96414710	+0.15760342

From 128 observations 2012 Oct. 17–2014 Aug. 25, mean residual 0<sup>''</sup>.4.

**C/2012 X1 (LINEAR)**

Epoch 2014 Mar. 4.0 TT = JDT 2456720.5

<i>T</i>	2014 Feb. 21.62585 TT		MPC	
<i>q</i>	1.5989262	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0064710	$\omega$ 132.10846	−0.22407560	+0.73238371
		$\Omega$ 113.14676	−0.96330303	−0.26648105
<i>e</i>	0.9896533	<i>i</i> 44.36722	+0.14777482	−0.62657956

From 2272 observations 2012 Dec. 8–2014 Aug. 30, mean residual 0<sup>''</sup>.5.  
Nongravitational parameters  $A_1 = +3.18$ ,  $A_2 = +0.5601$ .



**C/2013 A1 (Siding Spring)**

Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

<i>T</i>	2014 Oct. 25.30248 TT		MPC	
<i>q</i>	1.3987149	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0003202	$\omega$ 2.42313	+0.49139079	−0.56134230
	$\pm 0.0000003$	$\Omega$ 300.97636	−0.81156475	−0.57259161
<i>e</i>	1.0004478	<i>i</i> 129.04287	−0.31606606	+0.59752295

From 916 observations 2012 Oct. 4–2014 Sept. 5, mean residual 0<sup>''</sup>.5.

**P/2013 G1 (Kowalski)**

Epoch 2013 Dec. 14.0 TT = JDT 2456640.5

<i>T</i>	2013 Dec. 10.97076 TT		MPC	
<i>q</i>	3.3530973	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.05465954	$\omega$ 51.24197	+0.04522058	+0.99698031
<i>a</i>	6.8763621	$\Omega$ 221.48471	−0.94356500	+0.02187248
<i>e</i>	0.5123734	<i>i</i> 5.46868	−0.32808564	+0.07451079

*P* 18.0

From 171 observations 2013 Apr. 2–2014 Sept. 2, mean residual 0<sup>''</sup>.5.**C/2013 G3 (PANSTARRS)**

Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

<i>T</i>	2014 Nov. 15.19574 TT		MPC	
<i>q</i>	3.8521668	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0001256	$\omega$ 76.49819	−0.00978710	+0.90462585
	$\pm 0.0000006$	$\Omega$ 208.12645	−0.78719207	+0.25579755
<i>e</i>	1.0004838	<i>i</i> 64.66944	+0.61663024	+0.34091008

From 623 observations 2013 Apr. 10–2014 Sept. 2, mean residual 0<sup>''</sup>.4.

**C/2013 G7 (McNaught)**

Epoch 2014 Mar. 4.0 TT = JDT 2456720.5

<i>T</i>	2014 Mar. 18.65978 TT		MPC	
<i>q</i>	4.6774833	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0005482	$\omega$ 218.25996	−0.64198027	+0.25812511
	$\pm 0.0000016$	$\Omega$ 48.39988	−0.20263151	+0.85102708
<i>e</i>	0.9974357	<i>i</i> 105.10374	−0.73946048	−0.45730115

From 277 observations 2012 May 21–2014 July 6, mean residual 0<sup>''</sup>.5.

**C/2013 G8 (PANSTARRS)**

Epoch 2013 Nov. 4.0 TT = JDT 2456600.5

<i>T</i>	2013 Nov. 14.98244 TT		MPC	
<i>q</i>	5.1411856	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0003258	$\omega$ 80.16943	+0.68104287	+0.60971782
	$\pm 0.0000011$	$\Omega$ 241.02111	−0.70679540	+0.69209902
<i>e</i>	0.9983249	<i>i</i> 27.61498	+0.19136579	+0.38631999

From 126 observations 2013 Apr. 14–2014 Aug. 24, mean residual 0<sup>''</sup>.4.

**C/2013 G9 (Tenagra)**

Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

<i>T</i>	2015 Jan. 14.75774 TT		MPC	
<i>q</i>	5.3375092	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0001698	$\omega$ 204.94513	−0.94096355	−0.09715085
	$\pm 0.0000013$	$\Omega$ 35.68762	−0.13078865	+0.98788316
<i>e</i>	1.0009064	<i>i</i> 146.23030	−0.31222097	−0.12103127

From 285 observations 2013 Apr. 15–2014 July 19, mean residual 0<sup>''</sup>.5.

**C/2013 H2 (Boattini)**

Epoch 2014 Jan. 23.0 TT = JDT 2456680.5

<i>T</i>	2014 Jan. 23.17708 TT		MPC	
<i>q</i>	7.4986191	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0002217	$\omega$ 35.99611	−0.46427672	−0.42426623
	$\pm 0.0000022$	$\Omega$ 262.74577	−0.87728896	+0.34090719
<i>e</i>	1.0016622	<i>i</i> 128.39625	+0.12170129	+0.83891624

From 164 observations 2013 Apr. 22–2014 July 18, mean residual 0<sup>''</sup>.5.

**C/2013 P3 (Palomar)**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

<i>T</i>	2014 Nov. 23.87487 TT		MPC	
<i>q</i>	8.6464869	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0001419	$\omega$ 177.18619	+0.99782438	+0.04579715
	$\pm 0.0000012$	$\Omega$ 177.27538	−0.05997405	+0.33180946
<i>e</i>	1.0012268	<i>i</i> 93.91036	+0.02737913	−0.94223410

From 225 observations 2013 Aug. 8–2014 Aug. 31, mean residual 0<sup>''</sup>.4.

**C/2013 P4 (PANSTARRS)**

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

<i>T</i>	2014 Aug. 12.30166 TT		MPC	
<i>q</i>	5.9671161	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.01736744	$\omega$ 113.55560	+0.98183252	−0.17541969
<i>a</i>	14.7676756	$\Omega$ 256.61013	+0.13535725	+0.91466452
<i>e</i>	0.5959340	<i>i</i> 4.26443	+0.13297868	+0.36416583

*P* 56.8

From 71 observations 2013 Aug. 15–2014 Aug. 28, mean residual 0<sup>''</sup>.5.**C/2013 R1 (Lovejoy)**

Epoch 2013 Dec. 14.0 TT = JDT 2456640.5

<i>T</i>	2013 Dec. 22.73341 TT		MPC	
<i>q</i>	0.8118210	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0019727	$\omega$ 67.16679	−0.25259628	−0.46477150
		$\Omega$ 70.71111	+0.12869248	−0.88542334
<i>e</i>	0.9983985	<i>i</i> 64.04094	+0.95897516	−0.00359991

From 3547 observations 2013 Sept. 7–2014 Aug. 24, mean residual 0<sup>''</sup>.6.

Nongravitational parameters  $A_1 = +0.64$ ,  $A_2 = -0.3223$ .**P/2013 R3-A (Catalina-PANSTARRS)**

Epoch 2013 Aug. 16.0 TT = JDT 2456520.5

<i>T</i>	2013 Aug. 5.24527 TT		MPC	
<i>q</i>	2.2037193	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.18661177	$\omega$ 8.31236	+0.98755435	+0.15720860
<i>a</i>	3.0327972	$\Omega$ 342.64062	−0.14518612	+0.89979341
<i>e</i>	0.2733707	<i>i</i> 0.89797	−0.06047643	+0.40701018

*P* 5.28

From 30 observations 2013 Oct. 29–2014 Feb. 13, mean residual 0<sup>''</sup>.2.



**P/2013 R3-B (Catalina-PANSTARRS)**

Epoch 2013 Aug. 16.0 TT = JDT 2456520.5

<i>T</i>	2013 Aug. 5.24113 TT		MPC	
<i>q</i>	2.2037501	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.18661332	$\omega$ 8.25314	+0.98755355	+0.15721380
<i>a</i>	3.0327803	$\Omega$ 342.69954	-0.14518614	+0.89977986
<i>e</i>	0.2733565	<i>i</i> 0.89963	-0.06048937	+0.40703811
<i>P</i>	5.28			

From 30 observations 2013 Oct. 29–2014 Feb. 13, mean residual 0''.2.

**C/2013 UQ<sub>4</sub> (Catalina)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 July 5.95963 TT		MPC	
<i>q</i>	1.0809748	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0165137	$\omega$ 23.31214	+0.45982648	-0.80078037
	$\pm 0.0000005$	$\Omega$ 317.66232	-0.87772770	-0.47543627
<i>e</i>	0.9821492	<i>i</i> 145.25846	-0.13473560	+0.36429542

From 1516 observations 2013 Oct. 23–2014 Aug. 31, mean residual 0''.5.

**C/2013 US<sub>10</sub> (Catalina)**

Epoch 2015 Dec. 4.0 TT = JDT 2457360.5

<i>T</i>	2015 Nov. 15.71648 TT		MPC	
<i>q</i>	0.8229308	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0003871	$\omega$ 340.36094	-0.90561952	-0.42046694
	$\pm 0.0000032$	$\Omega$ 186.14477	-0.28585805	+0.50884953
<i>e</i>	1.0003185	<i>i</i> 148.87835	-0.31327058	+0.75118554

From 342 observations 2013 Aug. 14–2014 Sept. 1, mean residual 0''.4.

**C/2013 V1 (Boattini)**

Epoch 2014 Apr. 13.0 TT = JDT 2456760.5

<i>T</i>	2014 Apr. 21.23016 TT		MPC	
<i>q</i>	1.6608417	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0008142	$\omega$ 48.03303	-0.09908929	-0.48660250
		$\Omega$ 72.80993	+0.40161617	-0.81763458
<i>e</i>	1.0013522	<i>i</i> 65.30876	+0.91043163	+0.30772017

From 1997 observations 2013 Nov. 4–2014 Aug. 31, mean residual 0''.5.

Nongravitational parameters  $A_1 = +2.79$ ,  $A_2 = +0.3413$ .**C/2013 V2 (Borisov)**

Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

<i>T</i>	2014 Oct. 14.36311 TT		MPC	
<i>q</i>	3.5079464	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0012384	$\omega$ 94.47149	-0.64067453	-0.61549377
	$\pm 0.0000007$	$\Omega$ 48.42734	+0.18244190	-0.70274462
<i>e</i>	1.0043444	<i>i</i> 37.84845	+0.74582243	-0.35681566

From 846 observations 2012 Nov. 17–2014 June 23, mean residual 0''.5.

**C/2013 V4 (Catalina)**

Epoch 2015 Oct. 25.0 TT = JDT 2457320.5

<i>T</i>	2015 Oct. 7.60270 TT		MPC	
<i>q</i>	5.1853672	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0005058	$\omega$ 40.45014	+0.22784390	-0.60308870
	$\pm 0.0000027$	$\Omega$ 55.62145	+0.46388789	-0.62303379
<i>e</i>	1.0026226	<i>i</i> 67.85476	+0.85609297	+0.49810934

From 300 observations 2013 Oct. 23–2014 Sept. 7, mean residual 0''.5.

**C/2013 V5 (Oukaïmeden)**

Epoch 2014 Sept. 20.0 TT = JDT 2456920.5

<i>T</i>	2014 Sept. 28.22301 TT		MPC	
<i>q</i>	0.6254880	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0020909	$\omega$ 314.57504	+0.74284730	-0.52160568
	$\pm 0.0000007$	$\Omega$ 278.61567	-0.42774790	-0.85201429
<i>e</i>	0.9986922	<i>i</i> 154.88486	-0.51498507	-0.04471207

From 1099 observations 2013 Nov. 12–2014 Sept. 6, mean residual 0''.5.

**C/2013 X1 (PANSTARRS)**

Epoch 2016 Apr. 2.0 TT = JDT 2457480.5

<i>T</i>	2016 Apr. 20.78506 TT		MPC	
<i>q</i>	1.3143208	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0007642	$\omega$ 164.45540	+0.82522782	-0.52106182
	$\pm 0.0000237$	$\Omega$ 130.95031	-0.54407296	-0.62981215
<i>e</i>	1.0010044	<i>i</i> 163.22925	-0.15160361	-0.57604795

From 74 observations 2013 Nov. 29–2014 Aug. 25, mean residual 0''.3.

**C/2013 Y2 (PANSTARRS)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 June 13.65573 TT		MPC	
<i>q</i>	1.9190550	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0045961	$\omega$ 308.84782	-0.88746889	+0.13982763
	$\pm 0.0000019$	$\Omega$ 243.39939	-0.08372230	-0.98592248
<i>e</i>	0.9911798	<i>i</i> 29.41489	-0.45319924	-0.09167928

From 428 observations 2013 Dec. 30–2014 Aug. 4, mean residual 0''.4.

**P/2014 A2 (Hill)**

Epoch 2013 Nov. 4.0 TT = JDT 2456600.5

<i>T</i>	2013 Oct. 28.36321 TT		MPC	
<i>q</i>	2.0747052	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.06831020	$\omega$ 356.23660	-0.22906104	-0.88856854
<i>a</i>	5.9266916	$\Omega$ 106.67183	+0.90357113	-0.34596936
<i>e</i>	0.6499387	<i>i</i> 24.51329	+0.36206388	+0.30124932
<i>P</i>	14.4			

From 107 observations 2013 Nov. 9–2014 Mar. 7, mean residual 0''.5.

**P/2014 A3 (PANSTARRS)**

Epoch 2013 Apr. 18.0 TT = JDT 2456400.5

<i>T</i>	2013 Apr. 21.65311 TT		MPC	
<i>q</i>	3.5487172	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.09694714	$\omega$ 213.53433	+0.11140242	-0.97669614
<i>a</i>	4.6929514	$\Omega$ 230.77091	+0.95587683	+0.15580559
<i>e</i>	0.2438197	<i>i</i> 13.69926	+0.27182528	-0.14761190
<i>P</i>	10.2			

From 51 observations 2014 Jan. 9–Mar. 20, mean residual 0''.4.

**C/2014 A4 (SONEAR)**

Epoch 2015 Sept. 15.0 TT = JDT 2457280.5

<i>T</i>	2015 Sept. 5.85471 TT		MPC	
<i>q</i>	4.1804421	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	-0.0001803	$\omega$ 356.78305	+0.85255107	+0.30637278
	$\pm 0.0000047$	$\Omega$ 29.72672	+0.49655796	-0.72757642
<i>e</i>	1.0007538	<i>i</i> 121.35908	+0.16305483	+0.61381453

From 165 observations 2014 Jan. 12–Aug. 27, mean residual 0''.4.



**C/2014 A5 (PANSTARRS)**

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

<i>T</i>	2014 Aug. 13.53725 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0080929	$\omega$ 182.58126	−0.67272677	−0.61907691
	±0.0000000	$\Omega$ 310.10297	+0.68797375	−0.32185890
<i>e</i>	0.9611499	<i>i</i> 31.98812	+0.27226972	−0.71634533

From 26 observations 2014 Jan. 4–Mar. 22, mean residual 0<sup>''</sup>.5.

**C/2014 B1 (Schwartz)**

Epoch 2017 Sept. 4.0 TT = JDT 2458000.5

<i>T</i>	2017 Sept. 10.06188 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0002789	$\omega$ 345.78997	−0.84972808	−0.50492110
	±0.0005216	$\Omega$ 161.38323	+0.51813021	−0.85296213
<i>e</i>	1.0026672	<i>i</i> 28.37479	+0.09748479	+0.13232645

From 53 observations 2014 Jan. 28–Mar. 26, mean residual 0<sup>''</sup>.5.

**P/2014 E1 (Larson)**

Epoch 2014 May 23.0 TT = JDT 2456800.5

<i>T</i>	2014 May 22.02016 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.13781264	$\omega$ 185.81658	−0.71073653	+0.68170764
<i>a</i>	3.7120175	$\Omega$ 39.08928	−0.63380525	−0.51351246
<i>e</i>	0.4231928	<i>i</i> 15.97894	−0.30519582	−0.52113304
<i>P</i>	7.15			

From 347 observations 2014 Jan. 7–Aug. 27, mean residual 0<sup>''</sup>.5.**C/2014 E2 (Jacques)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 July 2.51573 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0014592	$\omega$ 344.04094	+0.32236860	+0.88590972
		$\Omega$ 56.39080	+0.90640565	−0.39047966
<i>e</i>	0.9990312	<i>i</i> 156.39199	+0.27296024	+0.25037893

From 3199 observations 2014 Mar. 13–Sept. 6, mean residual 0<sup>''</sup>.6. Nongravitational parameters  $A_1 = +2.07$ ,  $A_2 = -0.2548$ .**C/2014 F2 (Tenagra)**

Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

<i>T</i>	2015 Jan. 2.34950 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0067788	$\omega$ 86.04834	−0.48717358	+0.01096887
	±0.0000061	$\Omega$ 267.44856	−0.39024503	+0.89179907
<i>e</i>	0.9707530	<i>i</i> 119.06103	+0.78126226	+0.45229869

From 206 observations 2014 Mar. 31–Aug. 25, mean residual 0<sup>''</sup>.5.**C/2014 G3 (PANSTARRS)**

Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

<i>T</i>	2015 Feb. 2.58352 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0179716	$\omega$ 147.80644	−0.80508281	−0.59227420
	±0.0000000	$\Omega$ 4.54434	−0.59285141	+0.80522704
<i>e</i>	0.9155687	<i>i</i> 155.82331	−0.01920606	−0.02864761

From 141 observations 2014 Apr. 10–July 3, mean residual 0<sup>''</sup>.5.**P/2014 L2 (NEOWISE)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 July 15.45102 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.06197631	$\omega$ 182.79044	+0.88444573	+0.46437137
<i>a</i>	6.3239084	$\Omega$ 149.40540	−0.42636783	+0.84422924
<i>e</i>	0.6466592	<i>i</i> 5.18424	−0.18964766	+0.26764945
<i>P</i>	15.9			

From 556 observations 2014 June 7–Sept. 5, mean residual 0<sup>''</sup>.5.**P/2014 L3 (Hill)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 June 28.57652 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.04221534	$\omega$ 178.61248	+0.40971330	+0.90688900
<i>a</i>	8.1687541	$\Omega$ 115.56616	−0.83798771	+0.41680954
<i>e</i>	0.7730453	<i>i</i> 6.26386	−0.36043254	+0.06182353
<i>P</i>	23.3			

From 165 observations 2014 June 2–Aug. 25, mean residual 0<sup>''</sup>.4.**C/2014 L5 (Lemmon)**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

<i>T</i>	2014 Nov. 26.54094 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	−0.0005830	$\omega$ 45.62899	+0.79392240	−0.35956107
	±0.0000335	$\Omega$ 35.68708	−0.15332571	−0.89873749
<i>e</i>	1.0036164	<i>i</i> 122.80763	+0.58836932	+0.25097165

From 40 observations 2013 Oct. 12–2014 July 25, mean residual 0<sup>''</sup>.3.**C/2014 M1 (PANSTARRS)**

Epoch 2015 Aug. 27.65031 TT

<i>T</i>	2015 Aug. 27.65031 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
		$\omega$ 336.86343	−0.23006646	−0.93301781
		$\Omega$ 234.67823	−0.83146389	+0.04071998
<i>e</i>	1.0	<i>i</i> 160.17841	−0.50570469	+0.35751875

From 40 observations 2014 June 24–Aug. 29.

**C/2014 M3 (Catalina)**

Epoch 2014 July 2.0 TT = JDT 2456840.5

<i>T</i>	2014 June 21.89932 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0074797	$\omega$ 93.73144	+0.93900547	−0.22888410
	±0.0000823	$\Omega$ 80.36979	−0.31008388	−0.88625147
<i>e</i>	0.9817936	<i>i</i> 164.90969	+0.14871691	−0.40270386

From 81 observations 2014 June 26–Aug. 28, mean residual 0<sup>''</sup>.4.**P/2014 M4 (PANSTARRS)**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

<i>T</i>	2014 Dec. 28.31723 TT		MPC	
<i>q</i>		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.07194675	$\omega$ 145.64953	+0.63411926	−0.77104810
<i>a</i>	5.7252608	$\Omega$ 264.92479	+0.69569062	+0.60171843
<i>e</i>	0.5901218	<i>i</i> 3.34487	+0.33750159	+0.20837407
<i>P</i>	13.7			

From 23 observations 2014 June 30–Aug. 2, mean residual 0<sup>''</sup>.6.



**P/2014 MG<sub>4</sub> (Spacewatch-PANSTARRS)**

Epoch 2013 May 28.0 TT = JDT 2456440.5

<i>T</i>	2013 June 13.55363 TT		MPC	
<i>q</i>	3.7150343	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.08786644	$\omega$ 298.87819	−0.32116788	+0.93923246
<i>a</i>	5.0109571	$\Omega$ 311.86130	−0.80228923	−0.33785399
<i>e</i>	0.2586178	<i>i</i> 9.36710	−0.50317311	−0.06080350
<i>P</i>	11.2			

From 74 observations 2014 June 20–Aug. 27, mean residual 0<sup>''</sup>.4.**C/2014 N2 (PANSTARRS)**

Epoch 2014 Sept. 20.0 TT = JDT 2456920.5

<i>T</i>	2014 Oct. 8.22117 TT		MPC	
<i>q</i>	2.1844351	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0001701	$\omega$ 237.85861	+0.08823061	−0.89764878
	±0.0000915	$\Omega$ 143.80509	−0.46965971	+0.34478259
<i>e</i>	0.9996284	<i>i</i> 133.01420	−0.87842764	−0.27450251

From 38 observations 2014 July 2–Aug. 20, mean residual 0<sup>''</sup>.4.**C/2014 N3 (NEOWISE)**

Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

<i>T</i>	2015 Mar. 13.13985 TT		MPC	
<i>q</i>	3.8828578	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0002275	$\omega$ 353.54650	+0.95235833	−0.05526287
	±0.0000743	$\Omega$ 19.92958	+0.30403397	+0.09457665
<i>e</i>	0.9991165	<i>i</i> 61.63228	+0.02402008	+0.99398253

From 92 observations 2014 July 4–Sept. 5, mean residual 0<sup>''</sup>.3.**P/2014 O3 (PANSTARRS)**

Epoch 2014 Apr. 13.0 TT = JDT 2456760.5

<i>T</i>	2014 Apr. 18.24254 TT		MPC	
<i>q</i>	4.6420085	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.04756712	$\omega$ 204.44249	+0.37327222	+0.91773540
<i>a</i>	7.5439382	$\Omega$ 87.71205	−0.82724183	+0.39549714
<i>e</i>	0.3846704	<i>i</i> 7.80858	−0.41992714	+0.03665720
<i>P</i>	20.7			

From 45 observations 2014 July 8–Aug. 22, mean residual 0<sup>''</sup>.5.**C/2014 OE<sub>4</sub> (PANSTARRS)**

Epoch 2016 Nov. 28.0 TT = JDT 2457720.5

<i>T</i>	2016 Dec. 10.69699 TT		MPC	
<i>q</i>	6.2410550	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0000235	$\omega$ 65.77543	−0.08322897	+0.50418898
	±0.0000113	$\Omega$ 240.39997	−0.74819156	+0.53813843
<i>e</i>	0.9998534	<i>i</i> 81.33632	+0.65824185	+0.67542616

From 45 observations 2014 May 8–Aug. 13, mean residual 0<sup>''</sup>.3.**C/2014 Q1 (PANSTARRS)**

Epoch 2015 July 5.20146 TT

<i>T</i>	2015 July 5.20146 TT		MPC	
<i>q</i>	0.3243383	(2000.0)	<b>P</b>	<b>Q</b>
		$\omega$ 119.23369	−0.58382943	−0.80475836
		$\Omega$ 9.10978	+0.27530421	−0.32053818
<i>e</i>	1.0	<i>i</i> 42.65118	+0.76377405	−0.49961911

From 61 observations 2014 Aug. 16–22.

**C/2014 Q2 (Lovejoy)**

Epoch 2015 Jan. 18.0 TT = JDT 2457040.5

<i>T</i>	2015 Jan. 30.08176 TT		MPC	
<i>q</i>	1.2907740	(2000.0)	<b>P</b>	<b>Q</b>
<i>z</i>	+0.0014600	$\omega$ 12.37688	−0.12099772	−0.14526589
	±0.0000535	$\Omega$ 94.99387	+0.80583157	−0.59202895
<i>e</i>	0.9981155	<i>i</i> 80.30147	+0.57965079	+0.79271656

From 145 observations 2014 July 1–Sept. 6, mean residual 0<sup>''</sup>.5.**C/2014 Q3 (Borisov)**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

<i>T</i>	2014 Nov. 19.08687 TT		MPC	
<i>q</i>	1.6472819	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.00673964	$\omega$ 47.38460	+0.30546710	−0.33325443
<i>a</i>	27.7573657	$\Omega$ 63.12338	+0.26165937	−0.87131633
<i>e</i>	0.9406542	<i>i</i> 89.94604	+0.91554586	+0.36020735
<i>P</i>	146			

From 146 observations 2014 Aug. 22–Sept. 6, mean residual 0<sup>''</sup>.8.**C/2014 Q6 (PANSTARRS)**

Epoch 2015 Mar. 3.88250 TT

<i>T</i>	2015 Mar. 3.88250 TT		MPC	
<i>q</i>	3.7880231	(2000.0)	<b>P</b>	<b>Q</b>
		$\omega$ 14.32088	+0.91869448	+0.14110136
		$\Omega$ 328.78680	−0.39441461	+0.37720632
<i>e</i>	1.0	<i>i</i> 45.38677	+0.02091805	+0.91531732

From 18 observations 2014 Aug. 31–Sept. 4.

**C/2014 R1 (Borisov)**

Epoch 2014 Nov. 15.26344 TT

<i>T</i>	2014 Nov. 15.26344 TT		MPC	
<i>q</i>	1.4055323	(2000.0)	<b>P</b>	<b>Q</b>
		$\omega$ 50.89345	−0.89556075	−0.41349951
		$\Omega$ 104.12410	+0.33771164	−0.87210306
<i>e</i>	1.0	<i>i</i> 9.75322	+0.28969259	−0.26163795

From 32 observations 2014 Sept. 5–7.

**11P/Tempel-Swift-LINEAR**

Epoch 2002 Jan. 6.0 TT = JDT 2452280.5

<i>T</i>	2001 Dec. 30.75470 TT		MPC	
<i>q</i>	1.5840799	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.15467259	$\omega$ 163.63336	+0.70841208	−0.67596985
<i>a</i>	3.4371130	$\Omega$ 240.71007	+0.61866396	+0.73316096
<i>e</i>	0.5391249	<i>i</i> 13.46077	+0.33971639	+0.07442956
<i>P</i>	6.37			

From 47 observations 2001 Aug. 1–2014 Sept. 3, mean residual 0<sup>''</sup>.7.**148P/Anderson-LINEAR**

Epoch 2008 May 14.0 TT = JDT 2454600.5

<i>T</i>	2008 May 22.76616 TT		MPC	
<i>q</i>	1.7027530	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.13934334	$\omega$ 6.68540	−0.11276282	−0.99154855
<i>a</i>	3.6847828	$\Omega$ 89.80303	+0.90863356	−0.12903087
<i>e</i>	0.5378960	<i>i</i> 3.67843	+0.40208158	+0.01350961
<i>P</i>	7.07			

From 113 observations 1963 Nov. 22–2014 Sept. 3, mean residual 0<sup>''</sup>.7.Nongravitational parameters  $A_1 = +0.25$ ,  $A_2 = -0.0052$ .



**238P/Read**

Epoch 2011 Mar. 20.0 TT = JDT 2455640.5

<i>T</i>	2011 Mar. 10.71724 TT			MPC	
<i>q</i>	2.3605501	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.17500708	$\omega$	325.31269	+0.95643925	−0.29141687
<i>a</i>	3.1654271	$\Omega$	51.63954	+0.27259509	+0.87027455
<i>e</i>	0.2542712	<i>i</i>	1.26607	+0.10447908	+0.39711261
<i>P</i>	5.63				

From 130 observations 2005 Oct. 23–2011 Dec. 31, mean residual 0<sup>''</sup>.5.**303P/NEAT**

Epoch 2014 Oct. 30.0 TT = JDT 2456960.5

<i>T</i>	2014 Oct. 13.56319 TT			MPC	
<i>q</i>	2.4876581	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.08644203	$\omega$	357.01197	+0.96615111	+0.25673234
<i>a</i>	5.0658549	$\Omega$	348.02006	−0.23408903	+0.83122961
<i>e</i>	0.5089362	<i>i</i>	7.00352	−0.10841756	+0.49309820
<i>P</i>	11.4				

From 156 observations 2003 Oct. 17–2014 Sept. 2, mean residual 0<sup>''</sup>.5.**304P/Ory**

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

<i>T</i>	2014 Aug. 24.57530 TT			MPC	
<i>q</i>	1.3817597	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.16882868	$\omega$	329.71980	+0.86201907	−0.50514175
<i>a</i>	3.2421907	$\Omega$	60.67871	+0.47415490	+0.77440008
<i>e</i>	0.5738191	<i>i</i>	2.75397	+0.17916544	+0.38096762
<i>P</i>	5.84				

From 1045 observations 2002 Oct. 4–2014 Aug. 30, mean residual 0<sup>''</sup>.5.  
Nongravitational parameters  $A_1 = +0.28$ ,  $A_2 = +0.0373$ .**305P/Skiff**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

<i>T</i>	2014 Nov. 19.75984 TT			MPC	
<i>q</i>	1.4031098	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.09946691	$\omega$	144.98992	+0.88092051	−0.43911658
<i>a</i>	4.6133561	$\Omega$	241.99240	+0.37564085	+0.87562202
<i>e</i>	0.6958592	<i>i</i>	11.53250	+0.28787672	+0.20115343
<i>P</i>	9.91				

From 150 observations 2004 Oct. 7–2014 Aug. 31, mean residual 0<sup>''</sup>.6.**306P/LINEAR**

Epoch 2014 Aug. 11.0 TT = JDT 2456880.5

<i>T</i>	2014 July 24.75758 TT			MPC	
<i>q</i>	1.2531847	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.17970626	$\omega$	0.74768	+0.95213694	+0.30216575
<i>a</i>	3.1100014	$\Omega$	341.46197	−0.28119668	+0.80663893
<i>e</i>	0.5970469	<i>i</i>	8.34884	−0.11984853	+0.50796604
<i>P</i>	5.48				

From 287 observations 2003 July 30–2014 Aug. 30, mean residual 0<sup>''</sup>.6.**307P/LINEAR**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

<i>T</i>	2014 Dec. 20.24069 TT			MPC	
<i>q</i>	1.8891134	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.07054871	$\omega$	222.15278	+0.93748335	−0.34683595
<i>a</i>	5.8006500	$\Omega$	158.09070	+0.33636205	+0.88169227
<i>e</i>	0.6743273	<i>i</i>	4.42760	+0.08936183	+0.31988056
<i>P</i>	14.0				

From 82 observations 2000 Aug. 24–2014 Sept. 3, mean residual 0<sup>''</sup>.7.**308P/Lagerkvist-Carsenty**

Epoch 2015 May 18.0 TT = JDT 2457160.5

<i>T</i>	2015 May 7.37159 TT			MPC	
<i>q</i>	4.2257269	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.05763692	$\omega$	334.06013	+0.79523222	−0.60160051
<i>a</i>	6.6374647	$\Omega$	63.13057	+0.56994304	+0.69933004
<i>e</i>	0.3633523	<i>i</i>	4.84762	+0.20681065	+0.38602374
<i>P</i>	17.1				

From 182 observations 1997 Oct. 5–2014 Sept. 1, mean residual 0<sup>''</sup>.6.**309P/LINEAR**

Epoch 2015 Feb. 27.0 TT = JDT 2457080.5

<i>T</i>	2015 Feb. 16.51518 TT			MPC	
<i>q</i>	1.7404115	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.10535546	$\omega$	50.97468	+0.47136126	−0.87990827
<i>a</i>	4.4398132	$\Omega$	11.37088	+0.68593666	+0.32311734
<i>e</i>	0.6079989	<i>i</i>	17.66651	+0.55435500	+0.34836277
<i>P</i>	9.36				

From 207 observations 2005 Aug. 31–2014 Sept. 2, mean residual 0<sup>''</sup>.5.**310P/Hill**

Epoch 2015 Apr. 8.0 TT = JDT 2457120.5

<i>T</i>	2015 Apr. 18.58607 TT			MPC	
<i>q</i>	2.3837427	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.11638260	$\omega$	31.40907	+0.76396602	−0.64427651
<i>a</i>	4.1547416	$\Omega$	8.96559	+0.53459109	+0.60112846
<i>e</i>	0.4262597	<i>i</i>	13.18568	+0.36134235	+0.47281324
<i>P</i>	8.47				

From 212 observations 2006 Aug. 29–2014 Aug. 25, mean residual 0<sup>''</sup>.6.**311P/PANSTARRS**

Epoch 2014 Apr. 13.0 TT = JDT 2456760.5

<i>T</i>	2014 Apr. 15.92580 TT			MPC	
<i>q</i>	1.9361569	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.30441614	$\omega$	144.27923	+0.44296672	−0.89245445
<i>a</i>	2.1885557	$\Omega$	279.28900	+0.80113471	+0.43682175
<i>e</i>	0.1153267	<i>i</i>	4.96850	+0.40244708	+0.11274665
<i>P</i>	3.24				

From 151 observations 2010 Oct. 17–2014 Feb. 11, mean residual 0<sup>''</sup>.3.



**Neptune II (Nereid)**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

MPC

<i>M</i>	270.07745	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.99965873	$\omega$ 296.67079	−0.23824648	+0.96951218
<i>a</i>	0.0368590	$\Omega$ 319.41276	−0.85681880	−0.23760486
<i>e</i>	0.7413957	<i>i</i> 5.05381	−0.45727471	−0.05991705
<i>P</i>	360.12 d	<i>H</i> 4.4	<i>G</i> 0.15	

From 727 observations 1949 May 1–2014 Aug. 29, mean residual 0".51.

**Uranus XVII (Sycorax)**

Epoch 2014 Dec. 9.0 TT = JDT 2457000.5

MPC

<i>M</i>	351.96331	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28027513	$\omega$ 16.36140	−0.43741938	−0.78248371
<i>a</i>	0.0814297	$\Omega$ 258.50492	−0.86740478	+0.23713835
<i>e</i>	0.4889010	<i>i</i> 153.11363	−0.23721980	+0.57574704
<i>P</i>	1284.45 d	<i>H</i> 7.4	<i>G</i> 0.15	

From 319 observations 1984 June 2–2014 Aug. 20, mean residual 0".44.

**SUMMARY OF NEW NUMBERINGS**

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

(404945) 1981 EM <sub>32</sub>	1981 03 07	413	Bus, S. J.
(404946) 1993 TO <sub>26</sub>	1993 10 09	809	Elst, E. W.
(404947) 1995 SR <sub>15</sub>	1995 09 18	691	Spacewatch
(404948) 1995 YL <sub>9</sub>	1995 12 18	691	Spacewatch
(404949) 1996 GA <sub>4</sub>	1996 04 09	691	Spacewatch
(404950) 1996 TG <sub>4</sub>	1996 10 08	566	NEAT
(404951) 1996 TV <sub>18</sub>	1996 10 04	691	Spacewatch
(404952) 1996 TQ <sub>28</sub>	1996 10 07	691	Spacewatch
(404953) 1996 VA <sub>25</sub>	1996 11 10	691	Spacewatch
(404954) 1996 XX <sub>17</sub>	1996 12 07	691	Spacewatch
(404955) 1997 SK <sub>11</sub>	1997 09 23	691	Spacewatch
(404956) 1998 BN <sub>9</sub>	1998 01 18	691	Spacewatch
(404957) 1998 BU <sub>38</sub>	1998 01 29	691	Spacewatch
(404958) 1998 DF <sub>11</sub>	1998 02 25	566	NEAT
(404959) 1998 RS <sub>13</sub>	1998 09 13	691	Spacewatch
(404960) 1998 RM <sub>56</sub>	1998 09 14	704	LINEAR
(404961) 1998 SW <sub>8</sub>	1998 09 20	691	Spacewatch
(404962) 1998 SL <sub>40</sub>	1998 09 24	691	Spacewatch
(404963) 1998 SD <sub>52</sub>	1998 09 28	691	Spacewatch
(404964) 1998 SL <sub>97</sub>	1998 09 26	704	LINEAR
(404965) 1998 TP <sub>8</sub>	1998 10 12	691	Spacewatch
(404966) 1998 TQ <sub>22</sub>	1998 10 13	691	Spacewatch
(404967) 1999 BV <sub>28</sub>	1999 01 13	691	Spacewatch
(404968) 1999 TE <sub>43</sub>	1999 10 03	691	Spacewatch
(404969) 1999 TL <sub>58</sub>	1999 10 06	691	Spacewatch
(404970) 1999 TR <sub>207</sub>	1999 10 14	704	LINEAR

(404971) 1999 TY <sub>214</sub>	1999 10 15	704	LINEAR
(404972) 1999 TJ <sub>264</sub>	1999 10 15	691	Spacewatch
(404973) 1999 UF <sub>57</sub>	1999 10 29	691	Spacewatch
(404974) 1999 VF <sub>75</sub>	1999 11 05	691	Spacewatch
(404975) 1999 VM <sub>80</sub>	1999 11 04	704	LINEAR
(404976) 1999 VT <sub>107</sub>	1999 11 09	704	LINEAR
(404977) 1999 VA <sub>113</sub>	1999 11 09	704	LINEAR
(404978) 1999 WC <sub>19</sub>	1999 11 30	691	Spacewatch
(404979) 1999 XQ <sub>139</sub>	1999 12 02	691	Spacewatch
(404980) 1999 XH <sub>145</sub>	1999 11 15	691	Spacewatch
(404981) 1999 XR <sub>251</sub>	1999 12 09	691	Spacewatch
(404982) 1999 XG <sub>255</sub>	1999 12 04	691	Spacewatch
(404983) 1999 XO <sub>260</sub>	1999 12 07	704	LINEAR
(404984) 1999 YE <sub>8</sub>	1999 12 16	691	Spacewatch
(404985) 2000 AJ <sub>220</sub>	2000 01 08	691	Spacewatch
(404986) 2000 BL <sub>39</sub>	2000 01 27	691	Spacewatch
(404987) 2000 CA <sub>3</sub>	2000 02 02	704	LINEAR
(404988) 2000 CL <sub>73</sub>	2000 02 07	691	Spacewatch
(404989) 2000 DJ <sub>89</sub>	2000 02 26	691	Spacewatch
(404990) 2000 DB <sub>111</sub>	2000 02 29	704	LINEAR
(404991) 2000 EU <sub>4</sub>	2000 03 02	691	Spacewatch
(404992) 2000 GB <sub>3</sub>	2000 04 05	704	LINEAR
(404993) 2000 GR <sub>132</sub>	2000 04 12	608	NEAT
(404994) 2000 QZ <sub>186</sub>	2000 08 26	704	LINEAR
(404995) 2000 QA <sub>210</sub>	2000 08 31	704	LINEAR
(404996) 2000 RZ <sub>36</sub>	2000 09 03	704	LINEAR
(404997) 2000 RA <sub>85</sub>	2000 09 02	699	LONEOS
(404998) 2000 SP <sub>30</sub>	2000 09 24	704	LINEAR
(404999) 2000 SW <sub>262</sub>	2000 09 25	704	LINEAR
(405000) 2000 SQ <sub>288</sub>	2000 09 27	704	LINEAR
(405001) 2000 SY <sub>334</sub>	2000 09 26	608	NEAT
(405002) 2000 SR <sub>365</sub>	2000 09 21	699	LONEOS
(405003) 2000 TX <sub>25</sub>	2000 10 01	704	LINEAR
(405004) 2000 TU <sub>48</sub>	2000 10 01	704	LINEAR
(405005) 2000 UJ <sub>18</sub>	2000 10 24	704	LINEAR
(405006) 2000 UH <sub>70</sub>	2000 10 25	704	LINEAR
(405007) 2000 VJ <sub>19</sub>	2000 11 01	704	LINEAR
(405008) 2000 VT <sub>41</sub>	2000 11 01	704	LINEAR
(405009) 2000 VO <sub>53</sub>	2000 11 03	704	LINEAR
(405010) 2000 WL <sub>13</sub>	2000 11 21	704	LINEAR
(405011) 2000 WT <sub>80</sub>	2000 11 20	704	LINEAR
(405012) 2000 WP <sub>170</sub>	2000 11 24	699	LONEOS
(405013) 2000 YK <sub>94</sub>	2000 12 20	704	Spacewatch
(405014) 2001 CZ <sub>28</sub>	2001 02 02	699	LONEOS
(405015) 2001 DW <sub>23</sub>	2001 02 17	704	LINEAR
(405016) 2001 DD <sub>55</sub>	2001 02 16	691	Spacewatch
(405017) 2001 HE <sub>17</sub>	2001 04 24	691	Spacewatch
(405018) 2001 PY <sub>4</sub>	2001 08 07	608	NEAT
(405019) 2001 PY <sub>64</sub>	2001 08 01	644	NEAT
(405020) 2001 QX	2001 08 16	704	LINEAR
(405021) 2001 QN <sub>48</sub>	2001 08 16	704	LINEAR
(405022) 2001 QX <sub>128</sub>	2001 08 20	704	LINEAR



(405023)	2001 QO <sub>130</sub>	2001 08 20	704	LINEAR	(405075)	2001 UU <sub>62</sub>	2001 09 20	704	LINEAR
(405024)	2001 QK <sub>189</sub>	2001 08 22	704	LINEAR	(405076)	2001 UP <sub>72</sub>	2001 10 20	608	NEAT
(405025)	2001 QM <sub>190</sub>	2001 08 22	704	LINEAR	(405077)	2001 US <sub>77</sub>	2001 10 17	704	LINEAR
(405026)	2001 QU <sub>207</sub>	2001 08 23	699	LONEOS	(405078)	2001 UK <sub>85</sub>	2001 10 16	691	Spacewatch
(405027)	2001 QZ <sub>251</sub>	2001 07 27	704	LONEOS	(405079)	2001 UB <sub>105</sub>	2001 10 20	704	LINEAR
(405028)	2001 QC <sub>257</sub>	2001 08 25	704	LINEAR	(405080)	2001 UL <sub>142</sub>	2001 10 23	704	LINEAR
(405029)	2001 QH <sub>288</sub>	2001 08 17	644	NEAT	(405081)	2001 UH <sub>172</sub>	2001 10 18	644	NEAT
(405030)	2001 RD <sub>9</sub>	2001 09 08	704	LINEAR	(405082)	2001 UO <sub>204</sub>	2001 10 14	644	LINEAR
(405031)	2001 RO <sub>36</sub>	2001 09 08	704	LINEAR	(405083)	2001 UG <sub>209</sub>	2001 10 20	704	LINEAR
(405032)	2001 RO <sub>39</sub>	2001 09 10	704	LINEAR	(405084)	2001 UG <sub>218</sub>	2001 10 26	291	Spacewatch
(405033)	2001 RD <sub>98</sub>	2001 09 12	691	Spacewatch	(405085)	2001 UQ <sub>231</sub>	2001 09 11	644	Spacewatch
(405034)	2001 RW <sub>111</sub>	2001 09 12	704	LINEAR	(405086)	2001 VS <sub>74</sub>	2001 11 14	291	Spacewatch
(405035)	2001 RO <sub>113</sub>	2001 09 12	704	LINEAR	(405087)	2001 WC <sub>20</sub>	2001 10 23	704	LINEAR
(405036)	2001 RT <sub>119</sub>	2001 09 12	704	LINEAR	(405088)	2001 WN <sub>32</sub>	2001 11 17	704	LINEAR
(405037)	2001 SQ <sub>24</sub>	2001 09 16	704	LINEAR	(405089)	2001 WD <sub>72</sub>	2001 11 09	704	LINEAR
(405038)	2001 SS <sub>48</sub>	2001 09 16	704	LINEAR	(405090)	2001 XK <sub>32</sub>	2001 12 07	691	Spacewatch
(405039)	2001 SJ <sub>60</sub>	2001 09 17	704	LINEAR	(405091)	2001 XT <sub>32</sub>	2001 10 21	691	LINEAR
(405040)	2001 SC <sub>85</sub>	2001 09 11	704	LONEOS	(405092)	2001 XM <sub>46</sub>	2001 12 09	704	LINEAR
(405041)	2001 SO <sub>89</sub>	2001 09 20	704	LINEAR	(405093)	2001 XW <sub>88</sub>	2001 12 09	704	LINEAR
(405042)	2001 SY <sub>102</sub>	2001 09 20	704	LINEAR	(405094)	2001 XE <sub>91</sub>	2001 11 12	704	LINEAR
(405043)	2001 SM <sub>116</sub>	2001 09 21	704	LINEAR	(405095)	2001 XL <sub>141</sub>	2001 11 20	704	LINEAR
(405044)	2001 SB <sub>127</sub>	2001 09 16	704	LINEAR	(405096)	2001 XF <sub>174</sub>	2001 12 14	704	LINEAR
(405045)	2001 SM <sub>129</sub>	2001 09 16	704	LINEAR	(405097)	2001 XY <sub>198</sub>	2001 12 14	704	LINEAR
(405046)	2001 SR <sub>166</sub>	2001 09 11	704	LONEOS	(405098)	2001 XG <sub>217</sub>	2001 12 14	704	LINEAR
(405047)	2001 SL <sub>185</sub>	2001 09 19	704	LINEAR	(405099)	2001 XY <sub>234</sub>	2001 11 20	704	LINEAR
(405048)	2001 SP <sub>191</sub>	2001 09 19	704	LINEAR	(405100)	2001 YZ <sub>8</sub>	2001 12 17	704	LINEAR
(405049)	2001 SK <sub>193</sub>	2001 08 26	704	Spacewatch	(405101)	2001 YQ <sub>14</sub>	2001 12 07	704	Spacewatch
(405050)	2001 SM <sub>198</sub>	2001 09 19	704	LINEAR	(405102)	2002 AZ <sub>43</sub>	2002 01 06	704	Spacewatch
(405051)	2001 SL <sub>199</sub>	2001 09 12	704	LINEAR	(405103)	2002 AH <sub>55</sub>	2001 12 24	704	Spacewatch
(405052)	2001 SR <sub>215</sub>	2001 09 19	704	LINEAR	(405104)	2002 AN <sub>68</sub>	2002 01 12	691	Spacewatch
(405053)	2001 SQ <sub>225</sub>	2001 09 19	704	LINEAR	(405105)	2002 BJ <sub>26</sub>	2001 11 27	704	LINEAR
(405054)	2001 SJ <sub>255</sub>	2001 09 19	704	LINEAR	(405106)	2002 CE <sub>60</sub>	2002 02 06	704	LINEAR
(405055)	2001 SN <sub>259</sub>	2001 09 20	704	LINEAR	(405107)	2002 CY <sub>70</sub>	2002 02 07	704	LINEAR
(405056)	2001 SN <sub>287</sub>	2001 09 21	644	NEAT	(405108)	2002 CF <sub>98</sub>	2002 02 07	704	LINEAR
(405057)	2001 SO <sub>352</sub>	2001 09 24	644	NEAT	(405109)	2002 CB <sub>246</sub>	2002 02 13	291	Spacewatch
(405058)	2001 TX <sub>16</sub>	2001 10 13	704	LINEAR	(405110)	2002 CL <sub>252</sub>	2002 02 04	699	LONEOS
(405059)	2001 TO <sub>17</sub>	2001 10 14	557	Pravec, P.	(405111)	2002 CG <sub>260</sub>	2002 02 07	644	NEAT
(405060)	2001 TT <sub>18</sub>	2001 10 11	734	Hug, G.	(405112)	2002 DK <sub>19</sub>	2002 02 17	644	NEAT
(405061)	2001 TC <sub>30</sub>	2001 09 20	704	LINEAR	(405113)	2002 ED <sub>4</sub>	2002 03 10	209	Asiago-DLR Asteroid Survey
(405062)	2001 TN <sub>52</sub>	2001 10 13	704	LINEAR	(405114)	2002 EE <sub>82</sub>	2002 03 13	644	NEAT
(405063)	2001 TL <sub>86</sub>	2001 10 14	704	LINEAR	(405115)	2002 EO <sub>162</sub>	2002 03 04	291	Spacewatch
(405064)	2001 TV <sub>153</sub>	2001 10 13	644	NEAT	(405116)	2002 FQ <sub>15</sub>	2002 03 16	608	NEAT
(405065)	2001 TA <sub>162</sub>	2001 09 23	644	LINEAR	(405117)	2002 FG <sub>22</sub>	2002 03 19	704	LINEAR
(405066)	2001 TS <sub>182</sub>	2001 10 14	704	LINEAR	(405118)	2002 FN <sub>30</sub>	2002 03 20	704	LINEAR
(405067)	2001 TM <sub>183</sub>	2001 10 14	704	LINEAR	(405119)	2002 FW <sub>33</sub>	2002 03 20	704	LINEAR
(405068)	2001 TH <sub>225</sub>	2001 09 17	699	LONEOS	(405120)	2002 FS <sub>41</sub>	2002 03 21	291	Spacewatch
(405069)	2001 TG <sub>231</sub>	2001 10 15	644	NEAT	(405121)	2002 GF <sub>2</sub>	2002 04 06	843	Ball, L.
(405070)	2001 TN <sub>257</sub>	2001 10 10	644	NEAT	(405122)	2002 GO <sub>2</sub>	2002 04 04	644	NEAT
(405071)	2001 TT <sub>258</sub>	2001 10 14	645	Sloan Digital Sky Survey	(405123)	2002 GB <sub>5</sub>	2002 04 09	B18	Terskol
(405072)	2001 UT <sub>8</sub>	2001 09 20	704	LINEAR	(405124)	2002 GS <sub>51</sub>	2002 04 05	644	NEAT
(405073)	2001 UL <sub>43</sub>	2001 10 17	704	LINEAR	(405125)	2002 GM <sub>112</sub>	2002 04 10	704	LINEAR
(405074)	2001 UU <sub>58</sub>	2001 10 15	704	Spacewatch	(405126)	2002 GU <sub>121</sub>	2002 04 10	704	LINEAR



(405127) 2002 GB <sub>135</sub>	2002 04 12	704	LINEAR	(405179) 2002 WT <sub>1</sub>	2002 11 23	644	NEAT
(405128) 2002 GU <sub>162</sub>	2002 04 14	644	NEAT	(405180) 2002 WF <sub>2</sub>	2002 11 23	644	NEAT
(405129) 2002 HW <sub>8</sub>	2002 04 19	291	Spacewatch	(405181) 2002 XA <sub>22</sub>	2002 12 02	608	NEAT
(405130) 2002 JO <sub>9</sub>	2002 05 07	291	Spacewatch	(405182) 2002 XU <sub>117</sub>	2002 12 10	644	NEAT
(405131) 2002 JV <sub>17</sub>	2002 05 07	644	NEAT	(405183) 2002 YS <sub>15</sub>	2002 12 31	291	Spacewatch
(405132) 2002 JH <sub>36</sub>	2002 05 09	704	LINEAR	(405184) 2003 AC <sub>15</sub>	2003 01 03	704	LINEAR
(405133) 2002 LB <sub>15</sub>	2002 06 06	704	LINEAR	(405185) 2003 AQ <sub>21</sub>	2003 01 05	704	LINEAR
(405134) 2002 PU <sub>110</sub>	2002 08 13	699	LONEOS	(405186) 2003 AF <sub>42</sub>	2003 01 07	704	LINEAR
(405135) 2002 PJ <sub>177</sub>	2002 08 11	644	NEAT	(405187) 2003 AV <sub>66</sub>	2003 01 07	704	LINEAR
(405136) 2002 PK <sub>180</sub>	2002 08 08	644	NEAT	(405188) 2003 AM <sub>75</sub>	2003 01 10	704	LINEAR
(405137) 2002 PE <sub>202</sub>	1998 08 25	644	ODAS	(405189) 2003 BO <sub>1</sub>	2003 01 25	644	NEAT
(405138) 2002 QC <sub>3</sub>	2002 08 16	644	NEAT	(405190) 2003 BK <sub>4</sub>	2003 01 25	809	Boattini, A., Scholl, H.
(405139) 2002 QE <sub>34</sub>	2002 08 29	644	NEAT	(405191) 2003 BE <sub>5</sub>	2003 01 24	809	Boattini, A., Scholl, H.
(405140) 2002 QR <sub>121</sub>	2002 08 16	644	NEAT	(405192) 2003 BM <sub>30</sub>	2003 01 27	704	LINEAR
(405141) 2002 QP <sub>138</sub>	2002 08 17	644	NEAT	(405193) 2003 BJ <sub>59</sub>	2003 01 27	704	LINEAR
(405142) 2002 RF <sub>179</sub>	2002 09 14	291	Spacewatch	(405194) 2003 CD <sub>1</sub>	2003 02 01	644	NEAT
(405143) 2002 RZ <sub>182</sub>	2002 09 11	644	NEAT	(405195) 2003 CX <sub>18</sub>	2003 02 08	699	LONEOS
(405144) 2002 RD <sub>218</sub>	1998 09 25	608	LONEOS	(405196) 2003 CQ <sub>25</sub>	2003 02 06	704	LINEAR
(405145) 2002 RS <sub>245</sub>	2002 09 01	644	NEAT	(405197) 2003 DU <sub>4</sub>	2003 02 22	644	NEAT
(405146) 2002 RJ <sub>255</sub>	2002 09 15	644	NEAT	(405198) 2003 DU <sub>21</sub>	2003 02 28	704	LINEAR
(405147) 2002 RD <sub>266</sub>	2002 09 13	644	NEAT	(405199) 2003 DW <sub>21</sub>	2003 02 28	704	LINEAR
(405148) 2002 RN <sub>288</sub>	2001 04 27	644	Spacewatch	(405200) 2003 EE <sub>50</sub>	2003 03 11	644	NEAT
(405149) 2002 SE <sub>12</sub>	2002 09 15	644	Beijing Schmidt CCD Asteroid Program	(405201) 2003 FF <sub>3</sub>	2003 02 26	704	LINEAR
(405150) 2002 ST <sub>48</sub>	2002 09 30	704	LINEAR	(405202) 2003 FW <sub>74</sub>	2003 03 26	644	NEAT
(405151) 2002 SH <sub>64</sub>	2002 09 16	644	NEAT	(405203) 2003 GC <sub>57</sub>	2003 04 07	333	Yeung, W. K. Y.
(405152) 2002 TM	2002 10 01	699	LONEOS	(405204) 2003 HP <sub>8</sub>	2003 04 25	699	LONEOS
(405153) 2002 TH <sub>64</sub>	2002 10 03	644	CINEOS	(405205) 2003 HS <sub>29</sub>	2003 04 28	699	LONEOS
(405154) 2002 TN <sub>64</sub>	2002 10 05	678	Juels, C. W., Holvorcem, P. R.	(405206) 2003 HK <sub>42</sub>	2003 04 28	699	LONEOS
(405155) 2002 TY <sub>97</sub>	2002 10 03	644	NEAT	(405207) 2003 KP <sub>18</sub>	2003 05 24	246	Tichá, J., Tichý, M.
(405156) 2002 TW <sub>149</sub>	2002 10 05	644	NEAT	(405208) 2003 ND <sub>10</sub>	2003 07 03	691	Spacewatch
(405157) 2002 TW <sub>209</sub>	2002 10 06	608	NEAT	(405209) 2003 OV <sub>2</sub>	2003 07 23	644	NEAT
(405158) 2002 TS <sub>244</sub>	2002 10 10	644	NEAT	(405210) 2003 OY <sub>10</sub>	2003 07 27	428	Broughton, J.
(405159) 2002 TS <sub>312</sub>	2002 10 04	645	Sloan Digital Sky Survey	(405211) 2003 PD <sub>6</sub>	2003 08 01	704	LINEAR
(405160) 2002 TX <sub>333</sub>	2002 10 05	645	Sloan Digital Sky Survey	(405212) 2003 QC <sub>10</sub>	2003 08 22	704	LINEAR
(405161) 2002 TX <sub>348</sub>	2002 10 05	645	Sloan Digital Sky Survey	(405213) 2003 QN <sub>14</sub>	2003 08 20	644	NEAT
(405162) 2002 TG <sub>367</sub>	2002 10 10	645	Sloan Digital Sky Survey	(405214) 2003 QC <sub>39</sub>	2003 08 22	644	NEAT
(405163) 2002 UD <sub>32</sub>	2002 10 30	608	NEAT	(405215) 2003 QH <sub>48</sub>	2003 08 20	644	NEAT
(405164) 2002 UY <sub>32</sub>	2002 10 31	699	LONEOS	(405216) 2003 QL <sub>59</sub>	2003 08 23	704	LINEAR
(405165) 2002 UG <sub>37</sub>	2002 10 31	699	LONEOS	(405217) 2003 QD <sub>72</sub>	2003 08 26	704	LINEAR
(405166) 2002 UO <sub>71</sub>	2000 03 04	644	LINEAR	(405218) 2003 QV <sub>111</sub>	2003 08 31	608	NEAT
(405167) 2002 VF <sub>13</sub>	2002 11 04	644	NEAT	(405219) 2003 QY <sub>114</sub>	2003 08 22	644	NEAT
(405168) 2002 VL <sub>46</sub>	2002 11 05	644	NEAT	(405220) 2003 RM <sub>2</sub>	2003 09 01	704	LINEAR
(405169) 2002 VO <sub>56</sub>	2002 11 06	699	LONEOS	(405221) 2003 RM <sub>3</sub>	2003 09 01	704	LINEAR
(405170) 2002 VK <sub>64</sub>	2002 11 06	608	NEAT	(405222) 2003 RV <sub>20</sub>	2003 08 26	699	LINEAR
(405171) 2002 VN <sub>102</sub>	2002 10 05	704	LINEAR	(405223) 2003 SK <sub>31</sub>	2003 09 18	691	Spacewatch
(405172) 2002 VE <sub>105</sub>	2002 11 12	704	LINEAR	(405224) 2003 SO <sub>32</sub>	2003 09 16	644	NEAT
(405173) 2002 VM <sub>106</sub>	2002 11 12	704	LINEAR	(405225) 2003 SW <sub>33</sub>	2003 09 18	704	LINEAR
(405174) 2002 VR <sub>106</sub>	2002 11 12	704	LINEAR	(405226) 2003 SA <sub>41</sub>	2003 09 17	644	NEAT
(405175) 2002 VF <sub>113</sub>	2002 11 13	644	NEAT	(405227) 2003 SA <sub>43</sub>	2003 09 16	699	LONEOS
(405176) 2002 VB <sub>123</sub>	2002 11 13	644	NEAT	(405228) 2003 SP <sub>62</sub>	2003 09 17	691	Spacewatch
(405177) 2002 VX <sub>125</sub>	2002 11 14	644	NEAT	(405229) 2003 SA <sub>66</sub>	2003 09 18	704	LINEAR
(405178) 2002 VN <sub>133</sub>	2002 11 05	704	LINEAR	(405230) 2003 SJ <sub>79</sub>	2003 09 19	691	Spacewatch



(405231) 2003 SJ <sub>83</sub>	2003 09 18	691	Spacewatch	(405283) 2003 SW <sub>404</sub>	2003 09 27	645	Sloan Digital Sky Survey
(405232) 2003 SU <sub>90</sub>	2003 09 18	704	LINEAR	(405284) 2003 SC <sub>422</sub>	2003 09 26	645	Sloan Digital Sky Survey
(405233) 2003 SH <sub>111</sub>	2003 09 18	599	CINEOS	(405285) 2003 SV <sub>424</sub>	2003 09 25	568	Wiegert, P. A.
(405234) 2003 SU <sub>117</sub>	2003 09 16	644	NEAT	(405286) 2003 SY <sub>431</sub>	2003 09 17	691	Spacewatch
(405235) 2003 SS <sub>121</sub>	2003 09 17	691	Spacewatch	(405287) 2003 SK <sub>433</sub>	2003 09 28	645	Sloan Digital Sky Survey
(405236) 2003 SU <sub>121</sub>	2003 09 17	644	NEAT	(405288) 2003 TL <sub>5</sub>	2003 10 03	691	Spacewatch
(405237) 2003 SL <sub>130</sub>	2003 09 20	704	LINEAR	(405289) 2003 TS <sub>8</sub>	2003 10 03	691	Spacewatch
(405238) 2003 SW <sub>131</sub>	2003 09 18	691	Spacewatch	(405290) 2003 TC <sub>13</sub>	2003 10 05	704	LINEAR
(405239) 2003 SU <sub>132</sub>	2003 09 19	691	Spacewatch	(405291) 2003 TH <sub>14</sub>	2003 10 14	699	LONEOS
(405240) 2003 ST <sub>133</sub>	2003 09 18	644	NEAT	(405292) 2003 TJ <sub>16</sub>	2003 10 15	699	LONEOS
(405241) 2003 SC <sub>140</sub>	2003 09 18	599	CINEOS	(405293) 2003 TR <sub>16</sub>	2003 10 14	644	NEAT
(405242) 2003 SM <sub>141</sub>	2003 09 19	644	NEAT	(405294) 2003 TK <sub>17</sub>	2003 10 15	644	NEAT
(405243) 2003 SL <sub>151</sub>	2003 09 17	608	NEAT	(405295) 2003 TC <sub>36</sub>	2003 10 01	691	Spacewatch
(405244) 2003 SV <sub>154</sub>	2003 09 19	699	LONEOS	(405296) 2003 TW <sub>39</sub>	2003 10 02	691	Spacewatch
(405245) 2003 SP <sub>179</sub>	2003 09 19	644	NEAT	(405297) 2003 TM <sub>54</sub>	2003 10 05	691	Spacewatch
(405246) 2003 SB <sub>187</sub>	2003 09 22	699	LONEOS	(405298) 2003 TG <sub>57</sub>	2003 10 05	704	LINEAR
(405247) 2003 SG <sub>202</sub>	2003 09 22	699	LONEOS	(405299) 2003 TZ <sub>58</sub>	2003 10 02	691	Spacewatch
(405248) 2003 SN <sub>203</sub>	2003 09 22	699	LONEOS	(405300) 2003 UQ	2003 10 16	704	LINEAR
(405249) 2003 SD <sub>206</sub>	2003 09 23	644	NEAT	(405301) 2003 UH <sub>5</sub>	2003 10 18	673	Young, J. W.
(405250) 2003 SE <sub>206</sub>	2003 09 02	644	LINEAR	(405302) 2003 UO <sub>7</sub>	2003 08 28	446	LINEAR
(405251) 2003 ST <sub>230</sub>	2003 09 24	644	NEAT	(405303) 2003 UW <sub>17</sub>	2003 10 16	947	Spacewatch
(405252) 2003 SL <sub>244</sub>	2003 09 17	608	Spacewatch	(405304) 2003 UH <sub>25</sub>	2003 10 22	446	McClusky, J. V.
(405253) 2003 SZ <sub>248</sub>	2003 09 26	704	LINEAR	(405305) 2003 UJ <sub>25</sub>	2003 10 22	446	McClusky, J. V.
(405254) 2003 SR <sub>264</sub>	2003 09 28	704	LINEAR	(405306) 2003 UP <sub>29</sub>	2003 10 24	704	LINEAR
(405255) 2003 SY <sub>264</sub>	2003 09 28	704	LINEAR	(405307) 2003 UH <sub>33</sub>	2003 09 30	291	Spacewatch
(405256) 2003 SY <sub>265</sub>	2003 09 29	704	LINEAR	(405308) 2003 UQ <sub>35</sub>	2003 10 16	691	Spacewatch
(405257) 2003 SZ <sub>265</sub>	2003 09 29	704	LINEAR	(405309) 2003 US <sub>57</sub>	2003 10 16	691	Spacewatch
(405258) 2003 SS <sub>266</sub>	2003 09 29	704	LINEAR	(405310) 2003 UB <sub>62</sub>	2003 09 28	699	LONEOS
(405259) 2003 SR <sub>269</sub>	2003 09 28	683	Tucker, R. A.	(405311) 2003 UX <sub>66</sub>	2003 10 18	704	LINEAR
(405260) 2003 SY <sub>285</sub>	2003 09 20	691	Spacewatch	(405312) 2003 UP <sub>69</sub>	2003 09 21	291	Spacewatch
(405261) 2003 SB <sub>287</sub>	2003 09 29	691	Spacewatch	(405313) 2003 UT <sub>81</sub>	2003 10 17	291	Spacewatch
(405262) 2003 SK <sub>288</sub>	2003 09 28	333	Yeung, W. K. Y.	(405314) 2003 UJ <sub>82</sub>	2003 10 19	691	Spacewatch
(405263) 2003 SQ <sub>301</sub>	2003 09 17	644	NEAT	(405315) 2003 UM <sub>95</sub>	2003 10 18	691	Spacewatch
(405264) 2003 SF <sub>311</sub>	2003 09 29	704	LINEAR	(405316) 2003 UN <sub>99</sub>	2003 10 19	699	LONEOS
(405265) 2003 SG <sub>313</sub>	2003 09 18	691	Spacewatch	(405317) 2003 UM <sub>101</sub>	2003 09 29	691	LINEAR
(405266) 2003 SV <sub>322</sub>	2003 09 16	691	Spacewatch	(405318) 2003 UW <sub>105</sub>	2003 10 18	644	NEAT
(405267) 2003 SL <sub>324</sub>	2003 09 17	691	Spacewatch	(405319) 2003 UJ <sub>149</sub>	2003 09 28	691	LINEAR
(405268) 2003 SW <sub>325</sub>	2003 09 18	644	NEAT	(405320) 2003 UU <sub>164</sub>	2003 10 21	704	LINEAR
(405269) 2003 SD <sub>326</sub>	2003 09 18	691	Spacewatch	(405321) 2003 UN <sub>165</sub>	2003 10 21	691	Spacewatch
(405270) 2003 SZ <sub>326</sub>	2003 09 18	691	Spacewatch	(405322) 2003 UN <sub>176</sub>	2003 10 21	699	LONEOS
(405271) 2003 SV <sub>328</sub>	2003 09 21	691	Spacewatch	(405323) 2003 UF <sub>195</sub>	2003 10 20	691	Spacewatch
(405272) 2003 SM <sub>332</sub>	2003 09 28	691	Spacewatch	(405324) 2003 UT <sub>221</sub>	2003 10 22	691	Spacewatch
(405273) 2003 SJ <sub>335</sub>	2003 09 26	645	Sloan Digital Sky Survey	(405325) 2003 UM <sub>225</sub>	2003 10 22	691	Spacewatch
(405274) 2003 SM <sub>336</sub>	2003 09 27	645	Sloan Digital Sky Survey	(405326) 2003 UM <sub>235</sub>	2003 10 19	291	Spacewatch
(405275) 2003 SR <sub>338</sub>	2003 09 26	645	Sloan Digital Sky Survey	(405327) 2003 UT <sub>239</sub>	2003 09 30	704	Spacewatch
(405276) 2003 SY <sub>338</sub>	2003 09 26	645	Sloan Digital Sky Survey	(405328) 2003 UH <sub>245</sub>	2003 10 24	704	LINEAR
(405277) 2003 SF <sub>339</sub>	2003 09 26	645	Sloan Digital Sky Survey	(405329) 2003 UW <sub>249</sub>	2003 10 25	704	LINEAR
(405278) 2003 SF <sub>340</sub>	2003 09 28	645	Sloan Digital Sky Survey	(405330) 2003 UP <sub>266</sub>	2003 10 28	704	LINEAR
(405279) 2003 SY <sub>349</sub>	2003 09 18	691	Spacewatch	(405331) 2003 UV <sub>269</sub>	2003 10 29	703	CSS
(405280) 2003 SZ <sub>365</sub>	2003 09 16	645	Spacewatch	(405332) 2003 UM <sub>279</sub>	2003 10 27	691	Spacewatch
(405281) 2003 SD <sub>400</sub>	2003 09 26	645	Sloan Digital Sky Survey	(405333) 2003 UB <sub>282</sub>	2003 09 20	695	Spacewatch
(405282) 2003 SQ <sub>402</sub>	2003 09 27	691	Spacewatch	(405334) 2003 UR <sub>296</sub>	2003 09 28	691	Spacewatch



(405335) 2003 UN <sub>302</sub>	2003 10 17	691	Spacewatch
(405336) 2003 UW <sub>320</sub>	2003 10 24	704	LINEAR
(405337) 2003 UL <sub>327</sub>	2003 10 17	645	Sloan Digital Sky Survey
(405338) 2003 UH <sub>328</sub>	2003 10 17	645	Sloan Digital Sky Survey
(405339) 2003 UZ <sub>328</sub>	2003 10 17	645	Sloan Digital Sky Survey
(405340) 2003 UF <sub>334</sub>	2003 10 18	645	Sloan Digital Sky Survey
(405341) 2003 UP <sub>336</sub>	2003 10 18	645	Sloan Digital Sky Survey
(405342) 2003 UE <sub>340</sub>	2003 10 18	291	Spacewatch
(405343) 2003 UP <sub>340</sub>	2003 10 18	691	Spacewatch
(405344) 2003 UN <sub>352</sub>	2003 10 19	645	Sloan Digital Sky Survey
(405345) 2003 UX <sub>371</sub>	2003 10 22	691	Spacewatch
(405346) 2003 UX <sub>372</sub>	2003 10 22	645	Sloan Digital Sky Survey
(405347) 2003 UT <sub>401</sub>	2003 09 19	645	Spacewatch
(405348) 2003 UE <sub>415</sub>	2003 10 19	691	Spacewatch
(405349) 2003 VU <sub>6</sub>	2003 11 15	691	Spacewatch
(405350) 2003 VV <sub>11</sub>	2003 11 03	704	LINEAR
(405351) 2003 WV <sub>10</sub>	2003 11 18	691	Spacewatch
(405352) 2003 WM <sub>27</sub>	2003 11 16	691	Spacewatch
(405353) 2003 WY <sub>27</sub>	2003 11 16	691	Spacewatch
(405354) 2003 WO <sub>39</sub>	2003 11 19	691	Spacewatch
(405355) 2003 WF <sub>46</sub>	2003 11 21	704	LINEAR
(405356) 2003 WM <sub>54</sub>	2003 11 20	704	LINEAR
(405357) 2003 WP <sub>58</sub>	2003 11 18	691	Spacewatch
(405358) 2003 WF <sub>60</sub>	2003 10 24	644	LINEAR
(405359) 2003 WN <sub>63</sub>	2003 11 19	691	Spacewatch
(405360) 2003 WZ <sub>80</sub>	2003 11 20	704	LINEAR
(405361) 2003 WW <sub>98</sub>	2003 11 20	703	CSS
(405362) 2003 WT <sub>114</sub>	2003 11 20	704	LINEAR
(405363) 2003 WB <sub>116</sub>	2003 11 20	704	LINEAR
(405364) 2003 WR <sub>124</sub>	2003 11 20	704	LINEAR
(405365) 2003 WG <sub>132</sub>	2003 11 19	691	Spacewatch
(405366) 2003 WM <sub>151</sub>	2003 11 26	691	Spacewatch
(405367) 2003 WN <sub>153</sub>	2003 11 26	699	LONEOS
(405368) 2003 XO <sub>25</sub>	2003 12 01	704	LINEAR
(405369) 2003 XU <sub>37</sub>	2003 12 04	704	LINEAR
(405370) 2003 YG <sub>18</sub>	2003 12 17	691	Spacewatch
(405371) 2003 YK <sub>121</sub>	2003 12 27	704	LINEAR
(405372) 2003 YF <sub>152</sub>	2003 12 29	704	LINEAR
(405373) 2004 AR <sub>23</sub>	2004 01 15	691	Spacewatch
(405374) 2004 BR <sub>29</sub>	2004 01 18	644	NEAT
(405375) 2004 BN <sub>48</sub>	2004 01 21	704	LINEAR
(405376) 2004 BJ <sub>69</sub>	2004 01 18	691	Spacewatch
(405377) 2004 BK <sub>73</sub>	2003 12 27	704	LINEAR
(405378) 2004 BJ <sub>128</sub>	2004 01 16	691	Spacewatch
(405379) 2004 BM <sub>141</sub>	2004 01 19	691	Spacewatch
(405380) 2004 BK <sub>145</sub>	2004 01 19	691	Spacewatch
(405381) 2004 BJ <sub>159</sub>	2004 01 20	309	Cerro Paranal
(405382) 2004 CK <sub>14</sub>	2004 02 11	691	Spacewatch
(405383) 2004 CM <sub>60</sub>	2004 02 11	644	NEAT
(405384) 2004 DS <sub>67</sub>	2004 02 26	695	Buie, M. W.
(405385) 2004 DN <sub>70</sub>	2004 02 26	704	LINEAR
(405386) 2004 ED <sub>20</sub>	2004 03 14	703	CSS

(405387) 2004 EV <sub>36</sub>	2004 03 13	644	NEAT
(405388) 2004 EU <sub>86</sub>	2004 03 15	691	Spacewatch
(405389) 2004 EZ <sub>91</sub>	2004 03 15	691	Spacewatch
(405390) 2004 FH <sub>67</sub>	2004 03 20	704	LINEAR
(405391) 2004 FF <sub>72</sub>	2004 03 17	691	Spacewatch
(405392) 2004 FA <sub>76</sub>	2004 03 17	691	Spacewatch
(405393) 2004 GQ <sub>41</sub>	2004 04 13	644	NEAT
(405394) 2004 HS <sub>8</sub>	2004 04 16	704	LINEAR
(405395) 2004 HW <sub>39</sub>	2004 04 19	691	Spacewatch
(405396) 2004 JU <sub>4</sub>	2004 05 11	699	LONEOS
(405397) 2004 LB <sub>12</sub>	2004 06 15	704	LINEAR
(405398) 2004 LJ <sub>28</sub>	2004 06 14	691	Spacewatch
(405399) 2004 OJ	2004 07 16	704	LINEAR
(405400) 2004 PB <sub>8</sub>	2004 08 06	644	NEAT
(405401) 2004 PH <sub>35</sub>	2004 08 08	699	LONEOS
(405402) 2004 PT <sub>35</sub>	2004 08 08	699	LONEOS
(405403) 2004 PJ <sub>50</sub>	2004 08 08	704	LINEAR
(405404) 2004 PJ <sub>77</sub>	2004 08 09	704	LINEAR
(405405) 2004 PE <sub>88</sub>	2004 08 11	704	LINEAR
(405406) 2004 RN <sub>18</sub>	2004 09 07	691	Spacewatch
(405407) 2004 RJ <sub>23</sub>	2004 08 26	691	CSS
(405408) 2004 RA <sub>31</sub>	2004 08 12	704	LINEAR
(405409) 2004 RQ <sub>72</sub>	2004 09 08	704	LINEAR
(405410) 2004 RQ <sub>73</sub>	2004 09 08	704	LINEAR
(405411) 2004 RT <sub>98</sub>	2004 09 08	704	LINEAR
(405412) 2004 RX <sub>98</sub>	2004 08 23	704	Spacewatch
(405413) 2004 RZ <sub>135</sub>	2004 09 07	691	Spacewatch
(405414) 2004 RL <sub>145</sub>	2004 08 23	704	Spacewatch
(405415) 2004 RN <sub>162</sub>	2004 09 11	704	LINEAR
(405416) 2004 RG <sub>172</sub>	2004 09 09	704	LINEAR
(405417) 2004 RS <sub>197</sub>	2004 09 10	704	LINEAR
(405418) 2004 RX <sub>204</sub>	2004 09 12	691	Spacewatch
(405419) 2004 RV <sub>207</sub>	2004 09 11	704	LINEAR
(405420) 2004 RU <sub>240</sub>	2004 09 10	691	Spacewatch
(405421) 2004 RB <sub>321</sub>	2004 09 13	704	LINEAR
(405422) 2004 RJ <sub>322</sub>	2004 09 13	704	LINEAR
(405423) 2004 RE <sub>328</sub>	2004 09 13	691	LONEOS
(405424) 2004 RS <sub>335</sub>	2004 09 15	691	Spacewatch
(405425) 2004 RE <sub>346</sub>	2004 09 07	691	Spacewatch
(405426) 2004 SL <sub>2</sub>	2004 09 16	G92	Jarnac
(405427) 2004 ST <sub>9</sub>	2004 09 17	691	Spacewatch
(405428) 2004 ST <sub>34</sub>	2004 09 17	691	Spacewatch
(405429) 2004 SF <sub>35</sub>	2004 08 25	691	Spacewatch
(405430) 2004 SX <sub>48</sub>	2004 09 21	704	LINEAR
(405431) 2004 SJ <sub>49</sub>	2004 09 21	704	LINEAR
(405432) 2004 TF <sub>2</sub>	2004 10 04	691	Spacewatch
(405433) 2004 TW <sub>4</sub>	2004 10 04	691	Spacewatch
(405434) 2004 TT <sub>21</sub>	2004 10 04	691	Spacewatch
(405435) 2004 TJ <sub>27</sub>	2004 10 04	691	Spacewatch
(405436) 2004 TT <sub>35</sub>	2004 10 04	691	Spacewatch
(405437) 2004 TC <sub>51</sub>	2004 10 04	691	Spacewatch
(405438) 2004 TE <sub>64</sub>	2004 10 05	691	Spacewatch



(405439) 2004 TG <sub>64</sub>	2004 10 05	691	Spacewatch	(405491) 2004 XF <sub>103</sub>	2004 12 14	703	CSS
(405440) 2004 TO <sub>78</sub>	2004 10 04	704	LINEAR	(405492) 2004 XE <sub>104</sub>	2004 12 09	691	Spacewatch
(405441) 2004 TD <sub>83</sub>	2004 10 05	691	Spacewatch	(405493) 2004 XE <sub>108</sub>	2004 12 11	704	LINEAR
(405442) 2004 TL <sub>83</sub>	2004 10 05	691	Spacewatch	(405494) 2004 XY <sub>150</sub>	2004 12 02	691	Spacewatch
(405443) 2004 TT <sub>83</sub>	2004 10 05	691	Spacewatch	(405495) 2004 XP <sub>154</sub>	2004 12 15	691	Spacewatch
(405444) 2004 TL <sub>84</sub>	2004 10 05	691	Spacewatch	(405496) 2004 XL <sub>182</sub>	2004 12 01	703	CSS
(405445) 2004 TU <sub>85</sub>	2004 10 05	691	Spacewatch	(405497) 2004 XS <sub>191</sub>	2004 12 11	703	CSS
(405446) 2004 TP <sub>86</sub>	2004 10 05	691	Spacewatch	(405498) 2004 XQ <sub>192</sub>	2004 12 02	691	Spacewatch
(405447) 2004 TV <sub>90</sub>	2004 09 07	691	Spacewatch	(405499) 2005 AR <sub>12</sub>	2005 01 06	704	LINEAR
(405448) 2004 TM <sub>99</sub>	2004 10 05	691	Spacewatch	(405500) 2005 AY <sub>23</sub>	2005 01 07	691	Spacewatch
(405449) 2004 TN <sub>112</sub>	2004 10 07	644	NEAT	(405501) 2005 AH <sub>32</sub>	2005 01 11	704	LINEAR
(405450) 2004 TR <sub>151</sub>	2004 09 10	691	Spacewatch	(405502) 2005 AY <sub>39</sub>	2005 01 15	699	LONEOS
(405451) 2004 TT <sub>175</sub>	2004 10 09	704	LINEAR	(405503) 2005 AW <sub>40</sub>	2005 01 15	704	LINEAR
(405452) 2004 TV <sub>197</sub>	2004 10 07	691	Spacewatch	(405504) 2005 AN <sub>47</sub>	2005 01 13	691	Spacewatch
(405453) 2004 TB <sub>206</sub>	2004 10 07	691	Spacewatch	(405505) 2005 AO <sub>61</sub>	2005 01 15	691	Spacewatch
(405454) 2004 TP <sub>221</sub>	2004 10 07	704	LINEAR	(405506) 2005 AB <sub>65</sub>	2005 01 13	691	Spacewatch
(405455) 2004 TN <sub>238</sub>	2004 10 09	691	Spacewatch	(405507) 2005 AT <sub>68</sub>	2005 01 13	691	Spacewatch
(405456) 2004 TG <sub>244</sub>	2004 08 26	699	CSS	(405508) 2005 BG <sub>2</sub>	2005 01 16	699	LONEOS
(405457) 2004 TF <sub>250</sub>	2004 10 07	291	Spacewatch	(405509) 2005 BT <sub>7</sub>	2005 01 16	704	LINEAR
(405458) 2004 TC <sub>266</sub>	2004 10 09	691	Spacewatch	(405510) 2005 BD <sub>18</sub>	2005 01 16	704	LINEAR
(405459) 2004 TX <sub>275</sub>	2004 10 09	691	Spacewatch	(405511) 2005 BO <sub>49</sub>	2005 01 17	703	CSS
(405460) 2004 TT <sub>276</sub>	2004 10 09	691	Spacewatch	(405512) 2005 CF <sub>7</sub>	2004 12 21	704	CSS
(405461) 2004 TR <sub>277</sub>	2004 10 09	691	Spacewatch	(405513) 2005 CM <sub>27</sub>	2005 02 02	704	LINEAR
(405462) 2004 TS <sub>293</sub>	2004 10 10	691	Spacewatch	(405514) 2005 CR <sub>40</sub>	2005 02 09	809	Boattini, A., Scholl, H.
(405463) 2004 TT <sub>337</sub>	2004 10 12	691	Spacewatch	(405515) 2005 CD <sub>44</sub>	2005 02 02	691	Spacewatch
(405464) 2004 TE <sub>338</sub>	2004 10 12	691	Spacewatch	(405516) 2005 CL <sub>49</sub>	2005 02 02	703	CSS
(405465) 2004 TA <sub>350</sub>	2004 10 10	691	Spacewatch	(405517) 2005 CQ <sub>61</sub>	2005 02 09	691	Spacewatch
(405466) 2004 TE <sub>367</sub>	2004 10 05	644	NEAT	(405518) 2005 CJ <sub>67</sub>	2005 02 15	143	Spocetti, S.
(405467) 2004 VP <sub>1</sub>	2004 11 04	704	LINEAR	(405519) 2005 CS <sub>80</sub>	2005 02 01	703	CSS
(405468) 2004 VS <sub>11</sub>	2004 10 07	644	LONEOS	(405520) 2005 EA <sub>1</sub>	2005 03 01	691	Spacewatch
(405469) 2004 VL <sub>23</sub>	2004 11 05	644	NEAT	(405521) 2005 EQ <sub>30</sub>	2005 03 03	691	Spacewatch
(405470) 2004 VT <sub>34</sub>	2004 11 03	691	Spacewatch	(405522) 2005 EM <sub>53</sub>	2005 03 04	691	Spacewatch
(405471) 2004 VQ <sub>36</sub>	2004 11 04	691	Spacewatch	(405523) 2005 EG <sub>60</sub>	2005 03 04	703	CSS
(405472) 2004 VX <sub>53</sub>	2004 11 07	704	LINEAR	(405524) 2005 EC <sub>65</sub>	2005 03 04	704	LINEAR
(405473) 2004 VY <sub>68</sub>	2004 11 10	691	Spacewatch	(405525) 2005 EA <sub>70</sub>	2005 03 08	704	LINEAR
(405474) 2004 VO <sub>78</sub>	2004 11 03	704	LINEAR	(405526) 2005 EY <sub>104</sub>	2005 03 04	G96	Mt. Lemmon Survey
(405475) 2004 VP <sub>96</sub>	1998 10 14	691	Spacewatch	(405527) 2005 EH <sub>130</sub>	2005 03 09	G96	Mt. Lemmon Survey
(405476) 2004 VG <sub>112</sub>	2004 11 09	703	CSS	(405528) 2005 EZ <sub>131</sub>	2005 03 09	703	CSS
(405477) 2004 WE	2004 11 17	E12	Siding Spring Survey	(405529) 2005 EQ <sub>141</sub>	2005 02 14	G96	Spacewatch
(405478) 2004 WN	2004 11 04	E12	CSS	(405530) 2005 EM <sub>159</sub>	2005 03 09	G96	Mt. Lemmon Survey
(405479) 2004 XR	2004 12 01	644	NEAT	(405531) 2005 EK <sub>168</sub>	2005 03 11	G96	Mt. Lemmon Survey
(405480) 2004 XX	2004 12 01	644	NEAT	(405532) 2005 EE <sub>172</sub>	2005 03 07	704	LINEAR
(405481) 2004 XG <sub>2</sub>	2004 12 01	644	NEAT	(405533) 2005 EM <sub>256</sub>	2005 03 11	G96	Mt. Lemmon Survey
(405482) 2004 XT <sub>2</sub>	2004 12 02	703	CSS	(405534) 2005 EN <sub>295</sub>	2005 03 15	703	CSS
(405483) 2004 XR <sub>6</sub>	2004 12 02	704	LINEAR	(405535) 2005 EN <sub>310</sub>	2005 03 10	G96	Mt. Lemmon Survey
(405484) 2004 XP <sub>11</sub>	2004 12 03	691	Spacewatch	(405536) 2005 EZ <sub>311</sub>	2005 03 10	G96	Mt. Lemmon Survey
(405485) 2004 XW <sub>16</sub>	2004 12 03	691	Spacewatch	(405537) 2005 EQ <sub>328</sub>	2005 03 04	G96	Mt. Lemmon Survey
(405486) 2004 XU <sub>18</sub>	2004 12 08	704	LINEAR	(405538) 2005 GR <sub>3</sub>	2005 04 01	691	Spacewatch
(405487) 2004 XH <sub>67</sub>	2004 12 03	691	Spacewatch	(405539) 2005 GY <sub>28</sub>	2005 04 04	691	Spacewatch
(405488) 2004 XZ <sub>68</sub>	2004 11 03	703	Spacewatch	(405540) 2005 GR <sub>38</sub>	2005 04 04	691	Spacewatch
(405489) 2004 XZ <sub>91</sub>	2004 12 11	691	Spacewatch	(405541) 2005 GM <sub>44</sub>	2005 04 05	644	NEAT
(405490) 2004 XR <sub>92</sub>	2004 11 04	704	Spacewatch	(405542) 2005 GE <sub>49</sub>	2005 04 05	G96	Mt. Lemmon Survey



(405543)	2005 GN <sub>97</sub>	2005 04 07	691	Spacewatch	(405595)	2005 SJ <sub>74</sub>	2005 09 14	691	Spacewatch
(405544)	2005 GH <sub>99</sub>	2005 04 07	691	Spacewatch	(405596)	2005 SE <sub>79</sub>	2005 09 24	691	Spacewatch
(405545)	2005 GN <sub>209</sub>	2005 04 06	703	CSS	(405597)	2005 SR <sub>80</sub>	2005 09 24	691	Spacewatch
(405546)	2005 JU <sub>21</sub>	2005 05 06	703	CSS	(405598)	2005 SF <sub>86</sub>	2005 09 24	691	Spacewatch
(405547)	2005 JV <sub>35</sub>	2005 05 04	691	Spacewatch	(405599)	2005 SD <sub>94</sub>	2005 09 11	691	Spacewatch
(405548)	2005 JH <sub>65</sub>	2005 04 11	691	Spacewatch	(405600)	2005 SC <sub>102</sub>	2005 09 25	691	Spacewatch
(405549)	2005 JO <sub>121</sub>	2005 05 10	691	Spacewatch	(405601)	2005 SS <sub>106</sub>	2005 09 26	691	Spacewatch
(405550)	2005 JM <sub>133</sub>	2005 05 14	691	Spacewatch	(405602)	2005 SU <sub>108</sub>	2005 09 26	691	Spacewatch
(405551)	2005 JM <sub>166</sub>	2005 05 11	644	NEAT	(405603)	2005 SD <sub>114</sub>	2005 09 27	691	Spacewatch
(405552)	2005 KF <sub>5</sub>	2005 05 18	644	NEAT	(405604)	2005 SV <sub>116</sub>	2005 08 29	644	Spacewatch
(405553)	2005 LP <sub>5</sub>	2005 06 02	E12	Siding Spring Survey	(405605)	2005 SZ <sub>131</sub>	2005 09 29	291	Spacewatch
(405554)	2005 LB <sub>7</sub>	2005 06 01	691	Spacewatch	(405606)	2005 SK <sub>141</sub>	2005 09 25	691	Spacewatch
(405555)	2005 LQ <sub>14</sub>	2005 05 20	691	Mt. Lemmon Survey	(405607)	2005 SA <sub>145</sub>	2005 09 25	691	Spacewatch
(405556)	2005 ML <sub>48</sub>	2005 05 14	691	Mt. Lemmon Survey	(405608)	2005 SG <sub>159</sub>	2005 09 26	691	Spacewatch
(405557)	2005 NF <sub>15</sub>	2005 07 02	691	Spacewatch	(405609)	2005 SN <sub>166</sub>	2005 09 28	644	NEAT
(405558)	2005 NP <sub>43</sub>	2005 07 06	691	Spacewatch	(405610)	2005 SL <sub>167</sub>	2005 09 28	644	NEAT
(405559)	2005 NU <sub>55</sub>	2005 07 04	H06	CSS	(405611)	2005 SN <sub>171</sub>	2005 09 29	291	Spacewatch
(405560)	2005 NP <sub>118</sub>	2005 07 07	568	Veillet, C.	(405612)	2005 SF <sub>176</sub>	2005 09 29	691	Spacewatch
(405561)	2005 NQ <sub>123</sub>	2005 07 10	E12	Siding Spring Survey	(405613)	2005 SH <sub>177</sub>	2005 09 29	691	Spacewatch
(405562)	2005 OJ <sub>3</sub>	2005 07 30	599	CINEOS	(405614)	2005 SP <sub>177</sub>	2005 09 29	691	Spacewatch
(405563)	2005 OC <sub>9</sub>	2005 07 26	644	NEAT	(405615)	2005 SC <sub>185</sub>	2005 09 29	691	Spacewatch
(405564)	2005 ON <sub>27</sub>	2005 07 31	644	NEAT	(405616)	2005 SK <sub>185</sub>	2005 09 29	291	Spacewatch
(405565)	2005 QF <sub>11</sub>	2005 08 27	941	Ferrando, R.	(405617)	2005 SH <sub>188</sub>	2005 09 29	G96	Mt. Lemmon Survey
(405566)	2005 QC <sub>19</sub>	2005 08 25	599	CINEOS	(405618)	2005 SY <sub>198</sub>	2005 09 30	691	Spacewatch
(405567)	2005 QQ <sub>50</sub>	2005 08 26	644	NEAT	(405619)	2005 SU <sub>200</sub>	2005 09 30	691	Spacewatch
(405568)	2005 QB <sub>60</sub>	2005 08 26	599	CINEOS	(405620)	2005 SQ <sub>215</sub>	2005 09 30	703	CSS
(405569)	2005 QR <sub>65</sub>	2005 08 27	699	LONEOS	(405621)	2005 SH <sub>218</sub>	2005 09 30	644	NEAT
(405570)	2005 QR <sub>67</sub>	2005 08 28	691	Spacewatch	(405622)	2005 SC <sub>228</sub>	2005 09 24	691	Spacewatch
(405571)	2005 QE <sub>87</sub>	2005 08 31	461	Piszkéstető	(405623)	2005 SP <sub>228</sub>	2005 09 13	G96	Spacewatch
(405572)	2005 QR <sub>93</sub>	2005 08 26	644	NEAT	(405624)	2005 ST <sub>230</sub>	2005 09 30	G96	Mt. Lemmon Survey
(405573)	2005 QW <sub>122</sub>	2005 08 28	691	Spacewatch	(405625)	2005 SM <sub>267</sub>	2005 08 29	691	LONEOS
(405574)	2005 QB <sub>124</sub>	2005 08 28	691	Spacewatch	(405626)	2005 SS <sub>271</sub>	2005 09 26	691	Spacewatch
(405575)	2005 QY <sub>128</sub>	2005 08 28	691	Spacewatch	(405627)	2005 SL <sub>275</sub>	2005 09 29	691	Spacewatch
(405576)	2005 QY <sub>134</sub>	2005 08 28	691	Spacewatch	(405628)	2005 SW <sub>280</sub>	2005 09 29	703	CSS
(405577)	2005 QM <sub>135</sub>	2005 08 28	691	Spacewatch	(405629)	2005 TG <sub>5</sub>	2005 10 01	703	CSS
(405578)	2005 QB <sub>140</sub>	2005 08 28	691	Spacewatch	(405630)	2005 TX <sub>7</sub>	2005 10 01	691	Spacewatch
(405579)	2005 QY <sub>142</sub>	2005 08 31	691	Spacewatch	(405631)	2005 TS <sub>8</sub>	2005 10 01	691	Spacewatch
(405580)	2005 QZ <sub>173</sub>	2005 08 31	691	Spacewatch	(405632)	2005 TZ <sub>9</sub>	2005 10 02	644	NEAT
(405581)	2005 QT <sub>189</sub>	2005 08 29	691	Spacewatch	(405633)	2005 TC <sub>28</sub>	2005 10 01	691	Spacewatch
(405582)	2005 RK <sub>13</sub>	2005 09 01	644	NEAT	(405634)	2005 TB <sub>37</sub>	2005 09 14	G96	Spacewatch
(405583)	2005 RZ <sub>44</sub>	2005 09 03	644	NEAT	(405635)	2005 TF <sub>39</sub>	2005 10 01	G96	Mt. Lemmon Survey
(405584)	2005 RJ <sub>48</sub>	2005 09 01	644	NEAT	(405636)	2005 TE <sub>41</sub>	2005 09 25	G96	Spacewatch
(405585)	2005 SF <sub>9</sub>	2005 08 08	703	Siding Spring Survey	(405637)	2005 TY <sub>43</sub>	2005 10 03	703	CSS
(405586)	2005 ST <sub>13</sub>	2005 09 24	691	Spacewatch	(405638)	2005 TR <sub>66</sub>	2005 10 05	G96	Mt. Lemmon Survey
(405587)	2005 SY <sub>14</sub>	2005 09 26	691	Spacewatch	(405639)	2005 TO <sub>67</sub>	2005 10 05	G96	Mt. Lemmon Survey
(405588)	2005 SM <sub>29</sub>	2005 09 23	691	Spacewatch	(405640)	2005 TY <sub>90</sub>	2005 09 23	G96	Spacewatch
(405589)	2005 SL <sub>30</sub>	2005 09 01	703	Spacewatch	(405641)	2005 TK <sub>91</sub>	2005 09 23	G96	Spacewatch
(405590)	2005 SE <sub>45</sub>	2005 09 24	691	Spacewatch	(405642)	2005 TT <sub>92</sub>	2005 09 25	691	Spacewatch
(405591)	2005 SK <sub>46</sub>	2005 09 24	691	Spacewatch	(405643)	2005 TJ <sub>98</sub>	2005 08 31	699	Spacewatch
(405592)	2005 SV <sub>46</sub>	2005 09 24	691	Spacewatch	(405644)	2005 TW <sub>100</sub>	2005 10 01	703	CSS
(405593)	2005 SM <sub>55</sub>	2005 09 25	691	Spacewatch	(405645)	2005 TF <sub>113</sub>	2005 10 07	691	Spacewatch
(405594)	2005 SH <sub>61</sub>	2005 09 26	691	Spacewatch	(405646)	2005 TF <sub>115</sub>	2005 10 07	691	Spacewatch



(405647) 2005 TE <sub>125</sub>	2005 09 26	691	Spacewatch	(405699) 2005 UC <sub>491</sub>	2005 10 10	703	CSS
(405648) 2005 TY <sub>132</sub>	2005 10 07	691	Spacewatch	(405700) 2005 UG <sub>500</sub>	2005 10 27	699	LONEOS
(405649) 2005 TU <sub>138</sub>	2005 10 08	691	Spacewatch	(405701) 2005 UX <sub>514</sub>	2005 10 22	705	Becker, A. C.
(405650) 2005 TP <sub>142</sub>	2005 10 08	691	Spacewatch	(405702) 2005 UV <sub>521</sub>	2005 10 26	705	Becker, A. C.
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(405652) 2005 TS <sub>162</sub>	2005 10 09	691	Spacewatch	(405704) 2005 VV <sub>59</sub>	2005 10 25	691	Spacewatch
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(405656) 2005 UU <sub>66</sub>	2005 10 22	644	NEAT	(405708) 2005 VX <sub>86</sub>	2005 10 28	691	Mt. Lemmon Survey
(405657) 2005 UY <sub>69</sub>	2005 10 23	703	CSS	(405709) 2005 VR <sub>91</sub>	2005 10 28	G96	Mt. Lemmon Survey
(405658) 2005 UR <sub>76</sub>	2005 09 15	644	LINEAR	(405710) 2005 VA <sub>131</sub>	2005 11 01	705	Becker, A. C.
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(405662) 2005 UR <sub>111</sub>	2005 10 22	691	Spacewatch	(405714) 2005 WO <sub>36</sub>	2005 11 22	691	Spacewatch
(405663) 2005 UQ <sub>125</sub>	2005 10 24	691	Spacewatch	(405715) 2005 WU <sub>39</sub>	2005 11 25	G96	Mt. Lemmon Survey
(405664) 2005 UE <sub>140</sub>	2005 09 30	G96	Mt. Lemmon Survey	(405716) 2005 WR <sub>42</sub>	2005 11 21	691	Spacewatch
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(405666) 2005 UC <sub>158</sub>	2005 10 05	701	Spacewatch	(405718) 2005 WK <sub>79</sub>	2005 11 25	691	Spacewatch
(405667) 2005 UW <sub>170</sub>	2005 10 24	691	Spacewatch	(405719) 2005 WR <sub>103</sub>	2005 10 31	699	CSS
(405668) 2005 UH <sub>171</sub>	2005 10 24	691	Spacewatch	(405720) 2005 WT <sub>114</sub>	2005 11 28	703	CSS
(405669) 2005 UT <sub>185</sub>	2005 10 25	G96	Mt. Lemmon Survey	(405721) 2005 WR <sub>143</sub>	2005 11 22	691	Spacewatch
(405670) 2005 UC <sub>187</sub>	2005 10 26	691	Spacewatch	(405722) 2005 WV <sub>157</sub>	2005 10 30	G96	Mt. Lemmon Survey
(405671) 2005 UP <sub>187</sub>	2005 09 29	G96	Mt. Lemmon Survey	(405723) 2005 WF <sub>163</sub>	2005 11 29	691	Spacewatch
(405672) 2005 UR <sub>189</sub>	2005 10 27	G96	Mt. Lemmon Survey	(405724) 2005 WJ <sub>172</sub>	2005 11 04	G96	Spacewatch
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(405675) 2005 UF <sub>200</sub>	2005 10 25	691	Spacewatch	(405727) 2005 XS <sub>23</sub>	2005 12 02	704	LINEAR
(405676) 2005 UE <sub>212</sub>	2005 10 27	691	Spacewatch	(405728) 2005 XQ <sub>25</sub>	2005 12 04	G96	Mt. Lemmon Survey
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(405681) 2005 UU <sub>247</sub>	2005 09 29	G96	Mt. Lemmon Survey	(405733) 2005 YR <sub>13</sub>	2005 10 27	691	Mt. Lemmon Survey
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(405683) 2005 UE <sub>269</sub>	2005 09 25	G96	Spacewatch	(405735) 2005 YR <sub>22</sub>	2005 12 24	691	Spacewatch
(405684) 2005 UG <sub>279</sub>	2005 10 24	691	Spacewatch	(405736) 2005 YV <sub>25</sub>	2005 12 24	691	Spacewatch
(405685) 2005 UR <sub>286</sub>	2005 10 26	691	Spacewatch	(405737) 2005 YD <sub>26</sub>	2005 12 24	291	Spacewatch
(405686) 2005 UX <sub>305</sub>	2005 10 27	G96	Mt. Lemmon Survey	(405738) 2005 YT <sub>30</sub>	2005 12 22	691	Spacewatch
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(405688) 2005 UU <sub>319</sub>	2005 10 27	691	Spacewatch	(405740) 2005 YT <sub>39</sub>	2005 12 22	691	Spacewatch
(405689) 2005 UA <sub>320</sub>	2005 10 27	691	Spacewatch	(405741) 2005 YV <sub>40</sub>	2005 12 25	G96	Mt. Lemmon Survey
(405690) 2005 UB <sub>323</sub>	2005 10 22	704	Spacewatch	(405742) 2005 YD <sub>58</sub>	2005 12 24	691	Spacewatch
(405691) 2005 UK <sub>327</sub>	2005 10 29	691	Spacewatch	(405743) 2005 YV <sub>67</sub>	2005 12 05	691	Mt. Lemmon Survey
(405692) 2005 UH <sub>338</sub>	2005 10 01	691	Mt. Lemmon Survey	(405744) 2005 YA <sub>70</sub>	2005 10 01	691	Mt. Lemmon Survey
(405693) 2005 UX <sub>344</sub>	2005 10 29	G96	Mt. Lemmon Survey	(405745) 2005 YW <sub>77</sub>	2005 12 24	691	Spacewatch
(405694) 2005 UO <sub>362</sub>	2005 10 27	691	Spacewatch	(405746) 2005 YF <sub>81</sub>	2005 12 04	691	Mt. Lemmon Survey
(405695) 2005 UU <sub>366</sub>	2005 10 22	691	Spacewatch	(405747) 2005 YT <sub>105</sub>	2005 12 25	691	Spacewatch
(405696) 2005 UG <sub>388</sub>	2005 10 26	691	Spacewatch	(405748) 2005 YE <sub>106</sub>	2005 12 25	691	Spacewatch
(405697) 2005 UH <sub>398</sub>	2005 10 30	704	LINEAR	(405749) 2005 YX <sub>107</sub>	2005 12 04	691	Mt. Lemmon Survey
(405698) 2005 UO <sub>418</sub>	2005 10 07	691	Mt. Lemmon Survey	(405750) 2005 YJ <sub>109</sub>	2005 12 25	691	Spacewatch



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(405752) 2005 YT <sub>122</sub>	2005 12 24	704	LINEAR	(405804) 2006 BR <sub>48</sub>	2006 01 25	691	Spacewatch
(405753) 2005 YF <sub>127</sub>	2005 10 30	691	Mt. Lemmon Survey	(405805) 2006 BZ <sub>50</sub>	2006 01 25	703	CSS
(405754) 2005 YK <sub>129</sub>	2005 12 24	691	Spacewatch	(405806) 2006 BT <sub>53</sub>	2006 01 25	691	Spacewatch
(405755) 2005 YC <sub>133</sub>	2005 12 26	691	Spacewatch	(405807) 2006 BQ <sub>54</sub>	2006 01 25	691	Spacewatch
(405756) 2005 YK <sub>133</sub>	2005 12 26	691	Spacewatch	(405808) 2006 BS <sub>57</sub>	2006 01 23	691	Spacewatch
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(405759) 2005 YJ <sub>149</sub>	2005 12 25	691	Spacewatch	(405811) 2006 BQ <sub>72</sub>	2006 01 23	691	Spacewatch
(405760) 2005 YN <sub>151</sub>	2005 12 25	691	Spacewatch	(405812) 2006 BH <sub>75</sub>	2006 01 23	691	Spacewatch
(405761) 2005 YD <sub>152</sub>	2005 12 27	G96	Mt. Lemmon Survey	(405813) 2006 BC <sub>77</sub>	2006 01 23	G96	Mt. Lemmon Survey
(405762) 2005 YO <sub>180</sub>	2005 12 29	568	Tholen, D. J.	(405814) 2006 BL <sub>83</sub>	2006 01 08	691	Spacewatch
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(405765) 2005 YW <sub>185</sub>	2005 12 30	691	Spacewatch	(405817) 2006 BQ <sub>100</sub>	2006 01 28	703	CSS
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(405771) 2005 YW <sub>228</sub>	2005 12 25	G96	Mt. Lemmon Survey	(405823) 2006 BE <sub>126</sub>	2006 01 26	691	Spacewatch
(405772) 2005 YW <sub>239</sub>	2005 12 29	691	Spacewatch	(405824) 2006 BM <sub>136</sub>	2005 12 05	G96	Mt. Lemmon Survey
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(405780) 2006 AZ <sub>34</sub>	2006 01 04	691	Spacewatch	(405832) 2006 BW <sub>153</sub>	2006 01 25	291	Spacewatch
(405781) 2006 AN <sub>35</sub>	2005 12 28	691	Spacewatch	(405833) 2006 BQ <sub>158</sub>	2005 12 25	691	Mt. Lemmon Survey
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(405784) 2006 AD <sub>44</sub>	2006 01 07	699	LONEOS	(405836) 2006 BD <sub>179</sub>	2006 01 27	G96	Mt. Lemmon Survey
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(405790) 2006 AO <sub>68</sub>	2006 01 05	G96	Mt. Lemmon Survey	(405842) 2006 BQ <sub>223</sub>	2006 01 30	691	Spacewatch
(405791) 2006 AF <sub>72</sub>	2006 01 06	G96	Mt. Lemmon Survey	(405843) 2006 BT <sub>227</sub>	2006 01 26	691	Spacewatch
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(405793) 2006 AU <sub>80</sub>	2006 01 07	G96	Mt. Lemmon Survey	(405845) 2006 BJ <sub>230</sub>	2006 01 23	691	Spacewatch
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(405800) 2006 BQ <sub>37</sub>	2006 01 07	G96	Mt. Lemmon Survey	(405852) 2006 CS <sub>12</sub>	2006 02 01	691	Spacewatch
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(405864) 2006 DP <sub>90</sub>	2006 02 24	691	Spacewatch	(405916) 2006 JG <sub>81</sub>	2006 05 08	G96	Mt. Lemmon Survey
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(405867) 2006 DJ <sub>111</sub>	2006 02 27	691	Spacewatch	(405919) 2006 KC <sub>37</sub>	2006 05 21	G96	Mt. Lemmon Survey
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(405898) 2006 HO <sub>18</sub>	2006 03 23	947	Mt. Lemmon Survey	(405950) 2006 RM <sub>120</sub>	2006 09 14	691	Spacewatch
(405899) 2006 HV <sub>18</sub>	2006 04 18	691	Spacewatch	(405951) 2006 SD <sub>1</sub>	2006 09 16	691	Spacewatch
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(405901) 2006 HM <sub>36</sub>	2006 04 20	691	Spacewatch	(405953) 2006 SX <sub>4</sub>	2006 09 16	644	NEAT
(405902) 2006 HM <sub>56</sub>	2006 03 23	644	Spacewatch	(405954) 2006 SA <sub>5</sub>	2006 09 16	644	NEAT
(405903) 2006 HO <sub>64</sub>	2006 04 24	691	Spacewatch	(405955) 2006 SR <sub>6</sub>	2006 09 16	E12	Siding Spring Survey
(405904) 2006 HW <sub>71</sub>	2006 04 25	691	Spacewatch	(405956) 2006 SW <sub>11</sub>	2006 09 16	703	CSS
(405905) 2006 HG <sub>72</sub>	2006 04 25	691	Spacewatch	(405957) 2006 SP <sub>13</sub>	2006 09 17	704	LINEAR
(405906) 2006 HT <sub>82</sub>	2006 04 26	691	Spacewatch	(405958) 2006 SW <sub>13</sub>	2006 09 17	691	Spacewatch



(405959) 2006 SR <sub>34</sub>	2006 09 17	703	CSS	(406011) 2006 TK <sub>5</sub>	2006 10 02	703	CSS
(405960) 2006 SE <sub>44</sub>	2006 09 17	703	CSS	(406012) 2006 TP <sub>10</sub>	2006 10 14	461	Sárneczky, K., Kuli, Z.
(405961) 2006 SR <sub>45</sub>	2006 09 18	703	CSS	(406013) 2006 TW <sub>20</sub>	2006 10 11	691	Spacewatch
(405962) 2006 SN <sub>56</sub>	2006 09 19	703	CSS	(406014) 2006 TX <sub>26</sub>	2006 10 12	691	Spacewatch
(405963) 2006 SZ <sub>61</sub>	2006 09 18	703	CSS	(406015) 2006 TN <sub>35</sub>	2006 09 30	691	Mt. Lemmon Survey
(405964) 2006 SP <sub>65</sub>	2006 09 18	691	Spacewatch	(406016) 2006 TQ <sub>36</sub>	2006 10 12	691	Spacewatch
(405965) 2006 SW <sub>71</sub>	2006 09 19	691	Spacewatch	(406017) 2006 TQ <sub>43</sub>	2006 10 12	691	Spacewatch
(405966) 2006 SN <sub>76</sub>	2006 09 19	691	Spacewatch	(406018) 2006 TZ <sub>44</sub>	2006 09 30	691	Mt. Lemmon Survey
(405967) 2006 SL <sub>83</sub>	2006 09 18	691	Spacewatch	(406019) 2006 TU <sub>45</sub>	2006 09 30	691	Mt. Lemmon Survey
(405968) 2006 SG <sub>85</sub>	2006 09 18	691	Spacewatch	(406020) 2006 TM <sub>47</sub>	2006 10 12	691	Spacewatch
(405969) 2006 SG <sub>103</sub>	2006 09 19	691	Spacewatch	(406021) 2006 TZ <sub>52</sub>	2006 10 12	691	Spacewatch
(405970) 2006 SJ <sub>105</sub>	2006 09 19	691	Spacewatch	(406022) 2006 TP <sub>54</sub>	2006 10 12	644	NEAT
(405971) 2006 SZ <sub>113</sub>	2006 09 23	691	Spacewatch	(406023) 2006 TN <sub>62</sub>	2006 10 10	644	NEAT
(405972) 2006 SV <sub>116</sub>	2006 09 24	691	Spacewatch	(406024) 2006 TR <sub>63</sub>	2006 10 10	644	NEAT
(405973) 2006 SJ <sub>123</sub>	2006 09 19	703	CSS	(406025) 2006 TX <sub>68</sub>	2006 10 11	644	NEAT
(405974) 2006 SC <sub>129</sub>	2006 09 17	703	CSS	(406026) 2006 TL <sub>69</sub>	2006 10 11	644	NEAT
(405975) 2006 SB <sub>132</sub>	2006 09 16	703	CSS	(406027) 2006 TT <sub>75</sub>	2006 10 11	644	NEAT
(405976) 2006 SR <sub>147</sub>	2006 09 19	691	Spacewatch	(406028) 2006 TM <sub>77</sub>	2006 10 12	644	NEAT
(405977) 2006 SY <sub>152</sub>	2006 09 20	691	Spacewatch	(406029) 2006 TY <sub>85</sub>	2006 10 02	691	Mt. Lemmon Survey
(405978) 2006 SV <sub>153</sub>	2006 09 20	703	CSS	(406030) 2006 TP <sub>88</sub>	2006 10 02	691	Mt. Lemmon Survey
(405979) 2006 SU <sub>154</sub>	2006 09 21	699	LONEOS	(406031) 2006 TA <sub>89</sub>	2006 10 13	691	Spacewatch
(405980) 2006 SA <sub>156</sub>	2006 08 29	691	CSS	(406032) 2006 TB <sub>90</sub>	2006 10 13	691	Spacewatch
(405981) 2006 SO <sub>182</sub>	2006 09 25	G96	Mt. Lemmon Survey	(406033) 2006 TF <sub>90</sub>	2006 10 13	691	Spacewatch
(405982) 2006 SV <sub>183</sub>	2006 09 25	G96	Mt. Lemmon Survey	(406034) 2006 TC <sub>91</sub>	2006 10 13	691	Spacewatch
(405983) 2006 SE <sub>208</sub>	2006 09 11	691	CSS	(406035) 2006 TV <sub>91</sub>	2006 10 13	691	Spacewatch
(405984) 2006 SH <sub>208</sub>	2006 09 26	691	Spacewatch	(406036) 2006 TM <sub>92</sub>	2006 10 14	D35	Lin, C.-S., Ye, Q.-z.
(405985) 2006 SM <sub>223</sub>	2006 09 25	G96	Mt. Lemmon Survey	(406037) 2006 TA <sub>93</sub>	2006 10 15	691	Spacewatch
(405986) 2006 SS <sub>242</sub>	2006 09 26	691	Spacewatch	(406038) 2006 TG <sub>94</sub>	2006 09 14	703	Spacewatch
(405987) 2006 SZ <sub>257</sub>	2006 09 26	691	Spacewatch	(406039) 2006 TD <sub>97</sub>	2006 10 12	644	NEAT
(405988) 2006 SE <sub>281</sub>	2006 09 29	699	LONEOS	(406040) 2006 TA <sub>105</sub>	2006 10 02	691	Mt. Lemmon Survey
(405989) 2006 SH <sub>287</sub>	2006 09 22	699	LONEOS	(406041) 2006 TD <sub>106</sub>	2006 10 15	691	Spacewatch
(405990) 2006 SG <sub>294</sub>	2006 09 17	691	Spacewatch	(406042) 2006 TR <sub>109</sub>	2006 10 10	644	NEAT
(405991) 2006 SX <sub>309</sub>	2006 09 27	691	Spacewatch	(406043) 2006 TU <sub>119</sub>	2006 10 11	705	Becker, A. C.
(405992) 2006 SN <sub>310</sub>	2006 09 27	691	Spacewatch	(406044) 2006 TX <sub>124</sub>	2006 10 04	G96	Mt. Lemmon Survey
(405993) 2006 SP <sub>318</sub>	2006 09 27	691	Spacewatch	(406045) 2006 UY <sub>2</sub>	2006 10 16	703	CSS
(405994) 2006 SH <sub>333</sub>	2006 09 28	691	Spacewatch	(406046) 2006 UQ <sub>5</sub>	2006 10 16	703	CSS
(405995) 2006 SM <sub>335</sub>	2006 07 21	691	Mt. Lemmon Survey	(406047) 2006 UQ <sub>7</sub>	2006 10 16	703	CSS
(405996) 2006 SP <sub>343</sub>	2006 09 18	691	Spacewatch	(406048) 2006 UA <sub>9</sub>	2006 10 16	703	CSS
(405997) 2006 SM <sub>345</sub>	2006 09 28	691	Spacewatch	(406049) 2006 UH <sub>10</sub>	2006 10 17	691	Spacewatch
(405998) 2006 SW <sub>350</sub>	2006 09 30	703	CSS	(406050) 2006 UN <sub>16</sub>	2006 10 17	G96	Mt. Lemmon Survey
(405999) 2006 SM <sub>353</sub>	2006 09 30	703	CSS	(406051) 2006 US <sub>21</sub>	2006 10 16	691	Spacewatch
(406000) 2006 SG <sub>356</sub>	2006 09 30	703	CSS	(406052) 2006 UA <sub>25</sub>	2006 10 16	691	Spacewatch
(406001) 2006 SN <sub>358</sub>	2006 09 14	703	Spacewatch	(406053) 2006 UJ <sub>31</sub>	2006 09 27	691	Mt. Lemmon Survey
(406002) 2006 SH <sub>359</sub>	2006 09 30	703	CSS	(406054) 2006 UK <sub>31</sub>	2006 10 16	691	Spacewatch
(406003) 2006 SM <sub>363</sub>	2006 09 30	G96	Mt. Lemmon Survey	(406055) 2006 UL <sub>31</sub>	2006 10 16	691	Spacewatch
(406004) 2006 SS <sub>365</sub>	2006 09 30	G96	Mt. Lemmon Survey	(406056) 2006 UC <sub>34</sub>	2006 10 16	691	Spacewatch
(406005) 2006 SP <sub>366</sub>	2006 09 17	691	Spacewatch	(406057) 2006 US <sub>34</sub>	2006 10 16	691	Spacewatch
(406006) 2006 SA <sub>368</sub>	2006 09 23	152	Moletai	(406058) 2006 UU <sub>38</sub>	2006 10 16	691	Spacewatch
(406007) 2006 SJ <sub>368</sub>	2006 09 25	691	Spacewatch	(406059) 2006 UB <sub>50</sub>	2006 10 17	691	Spacewatch
(406008) 2006 SP <sub>398</sub>	2006 09 16	703	CSS	(406060) 2006 UW <sub>53</sub>	2006 10 17	G96	Mt. Lemmon Survey
(406009) 2006 SG <sub>401</sub>	2006 09 27	G96	Mt. Lemmon Survey	(406061) 2006 UK <sub>61</sub>	2006 10 19	G96	Mt. Lemmon Survey
(406010) 2006 SX <sub>404</sub>	2006 09 17	691	Spacewatch	(406062) 2006 UH <sub>63</sub>	2006 10 20	408	Nyukasa



(406063)	2006 UM <sub>73</sub>	2006 10 17	691	Spacewatch	(406115)	2006 VP <sub>43</sub>	2006 11 13	291	Spacewatch
(406064)	2006 UZ <sub>77</sub>	2006 10 17	691	Spacewatch	(406116)	2006 VX <sub>43</sub>	2006 09 28	691	Mt. Lemmon Survey
(406065)	2006 UH <sub>79</sub>	2006 10 17	691	Spacewatch	(406117)	2006 VB <sub>50</sub>	2006 11 10	691	Spacewatch
(406066)	2006 UD <sub>81</sub>	2006 10 02	G96	Mt. Lemmon Survey	(406118)	2006 VM <sub>52</sub>	2006 11 11	691	Spacewatch
(406067)	2006 UP <sub>85</sub>	2006 10 17	691	Spacewatch	(406119)	2006 VY <sub>52</sub>	2006 11 11	691	Spacewatch
(406068)	2006 UT <sub>85</sub>	2006 10 17	691	Spacewatch	(406120)	2006 VP <sub>58</sub>	2006 11 11	691	Spacewatch
(406069)	2006 UM <sub>93</sub>	2006 10 02	691	Mt. Lemmon Survey	(406121)	2006 VB <sub>60</sub>	2006 11 11	691	Spacewatch
(406070)	2006 UR <sub>94</sub>	2006 10 18	691	Spacewatch	(406122)	2006 VP <sub>62</sub>	2006 11 11	691	Spacewatch
(406071)	2006 UN <sub>96</sub>	2006 10 18	691	Spacewatch	(406123)	2006 VU <sub>62</sub>	2006 11 11	691	Spacewatch
(406072)	2006 UR <sub>108</sub>	2006 10 18	691	Spacewatch	(406124)	2006 VT <sub>64</sub>	2006 09 27	691	Mt. Lemmon Survey
(406073)	2006 UB <sub>116</sub>	2006 09 24	691	Spacewatch	(406125)	2006 VP <sub>65</sub>	2006 09 27	691	Mt. Lemmon Survey
(406074)	2006 UO <sub>117</sub>	2006 10 19	691	Spacewatch	(406126)	2006 VC <sub>70</sub>	2006 10 31	691	Mt. Lemmon Survey
(406075)	2006 UJ <sub>119</sub>	2006 10 19	691	Spacewatch	(406127)	2006 VR <sub>82</sub>	2006 11 13	691	Spacewatch
(406076)	2006 UC <sub>123</sub>	2006 10 19	691	Spacewatch	(406128)	2006 VT <sub>82</sub>	2006 11 13	691	Spacewatch
(406077)	2006 UN <sub>125</sub>	2006 10 02	691	Mt. Lemmon Survey	(406129)	2006 VN <sub>84</sub>	2006 11 13	691	Spacewatch
(406078)	2006 UV <sub>127</sub>	2006 10 02	691	Mt. Lemmon Survey	(406130)	2006 VF <sub>85</sub>	2006 11 13	703	CSS
(406079)	2006 UR <sub>128</sub>	2006 09 28	691	Mt. Lemmon Survey	(406131)	2006 VY <sub>96</sub>	2006 11 10	691	Spacewatch
(406080)	2006 UU <sub>135</sub>	2006 10 19	691	Spacewatch	(406132)	2006 VM <sub>98</sub>	2006 10 21	691	Mt. Lemmon Survey
(406081)	2006 UK <sub>143</sub>	2006 10 19	644	NEAT	(406133)	2006 VF <sub>102</sub>	2006 09 27	G96	Mt. Lemmon Survey
(406082)	2006 UM <sub>144</sub>	2006 10 19	691	Spacewatch	(406134)	2006 VJ <sub>103</sub>	2006 11 12	D35	Lin, H.-C., Ye, Q.-z.
(406083)	2006 US <sub>149</sub>	2006 10 20	703	CSS	(406135)	2006 VB <sub>104</sub>	2006 11 13	691	Spacewatch
(406084)	2006 UQ <sub>174</sub>	2006 10 19	G96	Mt. Lemmon Survey	(406136)	2006 VL <sub>108</sub>	2006 10 20	691	Mt. Lemmon Survey
(406085)	2006 UL <sub>180</sub>	2006 10 16	703	CSS	(406137)	2006 VP <sub>109</sub>	2006 10 30	703	CSS
(406086)	2006 UA <sub>182</sub>	2006 10 16	703	CSS	(406138)	2006 VM <sub>111</sub>	2006 11 13	691	Spacewatch
(406087)	2006 US <sub>187</sub>	2006 10 19	703	CSS	(406139)	2006 VW <sub>113</sub>	2006 11 13	691	Spacewatch
(406088)	2006 UP <sub>188</sub>	2006 10 19	703	CSS	(406140)	2006 VA <sub>114</sub>	2006 10 21	691	Spacewatch
(406089)	2006 UQ <sub>194</sub>	2006 10 04	691	Mt. Lemmon Survey	(406141)	2006 VE <sub>115</sub>	2006 10 04	G96	Mt. Lemmon Survey
(406090)	2006 UQ <sub>203</sub>	2006 10 22	644	NEAT	(406142)	2006 VM <sub>116</sub>	2006 11 14	704	LINEAR
(406091)	2006 UJ <sub>245</sub>	2006 09 26	G96	Mt. Lemmon Survey	(406143)	2006 VK <sub>118</sub>	2006 10 27	691	Mt. Lemmon Survey
(406092)	2006 UN <sub>255</sub>	2006 10 27	G96	Mt. Lemmon Survey	(406144)	2006 VP <sub>127</sub>	2006 10 23	691	Spacewatch
(406093)	2006 UD <sub>259</sub>	2006 10 28	G96	Mt. Lemmon Survey	(406145)	2006 VP <sub>130</sub>	2006 11 15	691	Spacewatch
(406094)	2006 UK <sub>263</sub>	2006 10 04	621	Mt. Lemmon Survey	(406146)	2006 VR <sub>131</sub>	2006 11 15	703	CSS
(406095)	2006 UY <sub>268</sub>	2006 10 27	G96	Mt. Lemmon Survey	(406147)	2006 VA <sub>136</sub>	2006 11 15	691	Spacewatch
(406096)	2006 UE <sub>271</sub>	2006 10 19	691	Mt. Lemmon Survey	(406148)	2006 VO <sub>140</sub>	2006 11 15	691	Spacewatch
(406097)	2006 UX <sub>276</sub>	2006 09 28	691	Mt. Lemmon Survey	(406149)	2006 VH <sub>150</sub>	2006 11 09	644	NEAT
(406098)	2006 UY <sub>281</sub>	2006 10 12	G96	Spacewatch	(406150)	2006 VV <sub>154</sub>	2006 11 08	644	NEAT
(406099)	2006 UW <sub>286</sub>	2006 10 28	691	Spacewatch	(406151)	2006 VB <sub>155</sub>	2005 05 08	644	Spacewatch
(406100)	2006 UM <sub>313</sub>	2006 10 19	695	Buie, M. W.	(406152)	2006 VK <sub>169</sub>	2006 11 10	691	Spacewatch
(406101)	2006 UJ <sub>335</sub>	2006 10 16	691	Spacewatch	(406153)	2006 VM <sub>169</sub>	2006 11 11	691	Spacewatch
(406102)	2006 VV <sub>3</sub>	2006 11 09	691	Spacewatch	(406154)	2006 VT <sub>170</sub>	2006 11 01	G96	Mt. Lemmon Survey
(406103)	2006 VR <sub>4</sub>	2006 11 09	691	Spacewatch	(406155)	2006 VU <sub>171</sub>	2006 11 08	644	NEAT
(406104)	2006 VZ <sub>7</sub>	2006 11 10	691	Spacewatch	(406156)	2006 VA <sub>172</sub>	2006 11 13	G96	Mt. Lemmon Survey
(406105)	2006 VQ <sub>9</sub>	2006 11 11	703	CSS	(406157)	2006 WT <sub>4</sub>	2006 09 18	691	Spacewatch
(406106)	2006 VW <sub>9</sub>	2006 11 11	G96	Mt. Lemmon Survey	(406158)	2006 WM <sub>6</sub>	2006 11 16	691	Spacewatch
(406107)	2006 VB <sub>10</sub>	2006 11 11	703	CSS	(406159)	2006 WU <sub>11</sub>	2006 10 19	691	Mt. Lemmon Survey
(406108)	2006 VU <sub>10</sub>	2006 11 11	703	CSS	(406160)	2006 WQ <sub>17</sub>	2006 11 01	G96	Mt. Lemmon Survey
(406109)	2006 VX <sub>22</sub>	2006 11 10	691	Spacewatch	(406161)	2006 WP <sub>26</sub>	2006 11 18	704	LINEAR
(406110)	2006 VW <sub>27</sub>	2006 11 10	691	Spacewatch	(406162)	2006 WF <sub>35</sub>	2006 11 16	691	Spacewatch
(406111)	2006 VQ <sub>29</sub>	2006 11 10	691	Spacewatch	(406163)	2006 WB <sub>38</sub>	2006 10 23	691	Mt. Lemmon Survey
(406112)	2006 VR <sub>33</sub>	2006 11 11	G96	Mt. Lemmon Survey	(406164)	2006 WH <sub>38</sub>	2006 11 16	691	Spacewatch
(406113)	2006 VZ <sub>36</sub>	2006 10 04	703	Mt. Lemmon Survey	(406165)	2006 WC <sub>40</sub>	2006 11 16	691	Spacewatch
(406114)	2006 VF <sub>42</sub>	2006 10 22	G96	Spacewatch	(406166)	2006 WY <sub>45</sub>	2006 11 16	G96	Mt. Lemmon Survey



(406167) 2006 WM <sub>47</sub>	2006 11 16	691	Spacewatch	(406219) 2007 BK <sub>18</sub>	2007 01 17	644	NEAT
(406168) 2006 WS <sub>47</sub>	2006 11 16	691	Spacewatch	(406220) 2007 BD <sub>20</sub>	2006 12 21	704	Spacewatch
(406169) 2006 WX <sub>50</sub>	2006 11 01	691	Mt. Lemmon Survey	(406221) 2007 BO <sub>20</sub>	2007 01 23	699	LONEOS
(406170) 2006 WN <sub>52</sub>	2006 11 16	691	Spacewatch	(406222) 2007 BP <sub>22</sub>	2007 01 24	703	CSS
(406171) 2006 WC <sub>58</sub>	2006 11 17	691	Spacewatch	(406223) 2007 BP <sub>31</sub>	2007 01 17	G96	Mt. Lemmon Survey
(406172) 2006 WB <sub>72</sub>	2006 10 31	691	Mt. Lemmon Survey	(406224) 2007 BV <sub>31</sub>	2006 12 24	699	Mt. Lemmon Survey
(406173) 2006 WF <sub>72</sub>	2006 10 31	691	Mt. Lemmon Survey	(406225) 2007 BF <sub>32</sub>	2007 01 24	G96	Mt. Lemmon Survey
(406174) 2006 WC <sub>74</sub>	2006 11 18	691	Spacewatch	(406226) 2007 BL <sub>32</sub>	2007 01 24	G96	Mt. Lemmon Survey
(406175) 2006 WB <sub>78</sub>	2006 11 18	691	Spacewatch	(406227) 2007 BO <sub>34</sub>	2007 01 24	G96	Mt. Lemmon Survey
(406176) 2006 WQ <sub>80</sub>	2006 11 18	691	Spacewatch	(406228) 2007 BR <sub>36</sub>	2006 10 23	704	Mt. Lemmon Survey
(406177) 2006 WQ <sub>81</sub>	2006 11 18	691	Spacewatch	(406229) 2007 BA <sub>39</sub>	2007 01 24	703	CSS
(406178) 2006 WO <sub>94</sub>	2006 11 19	691	Spacewatch	(406230) 2007 BO <sub>50</sub>	2006 11 01	704	Spacewatch
(406179) 2006 WL <sub>98</sub>	2006 11 19	691	Spacewatch	(406231) 2007 BR <sub>52</sub>	2007 01 24	691	Spacewatch
(406180) 2006 WV <sub>99</sub>	2006 11 19	691	Spacewatch	(406232) 2007 BZ <sub>54</sub>	2007 01 24	G96	Mt. Lemmon Survey
(406181) 2006 WC <sub>100</sub>	2006 11 19	703	CSS	(406233) 2007 BO <sub>63</sub>	2005 10 25	691	Spacewatch
(406182) 2006 WD <sub>100</sub>	2006 10 22	703	CSS	(406234) 2007 BC <sub>66</sub>	2007 01 27	G96	Mt. Lemmon Survey
(406183) 2006 WW <sub>101</sub>	2006 11 19	703	CSS	(406235) 2007 BF <sub>73</sub>	2007 01 25	704	LINEAR
(406184) 2006 WX <sub>108</sub>	2006 11 15	691	CSS	(406236) 2007 BJ <sub>100</sub>	2007 01 17	691	Spacewatch
(406185) 2006 WE <sub>117</sub>	2006 10 23	G96	CSS	(406237) 2007 CW <sub>10</sub>	2006 11 24	G96	Mt. Lemmon Survey
(406186) 2006 WQ <sub>117</sub>	2006 11 20	703	CSS	(406238) 2007 CQ <sub>17</sub>	2006 11 21	G96	Mt. Lemmon Survey
(406187) 2006 WM <sub>122</sub>	2006 11 21	G96	Mt. Lemmon Survey	(406239) 2007 CB <sub>37</sub>	2007 01 27	G96	Spacewatch
(406188) 2006 WK <sub>124</sub>	2006 11 14	691	Spacewatch	(406240) 2007 CB <sub>48</sub>	2007 02 10	G96	Mt. Lemmon Survey
(406189) 2006 WP <sub>128</sub>	2006 11 26	H07	Yeung, W. K. Y.	(406241) 2007 CM <sub>50</sub>	2007 02 08	644	NEAT
(406190) 2006 WJ <sub>136</sub>	2006 11 19	691	Spacewatch	(406242) 2007 CJ <sub>55</sub>	2007 02 10	G96	Mt. Lemmon Survey
(406191) 2006 WP <sub>139</sub>	2006 10 31	691	Mt. Lemmon Survey	(406243) 2007 CY <sub>62</sub>	2007 01 10	703	Spacewatch
(406192) 2006 WY <sub>142</sub>	2006 11 20	691	Spacewatch	(406244) 2007 CP <sub>75</sub>	2007 02 14	568	Mauna Kea
(406193) 2006 WT <sub>172</sub>	2006 11 23	691	Spacewatch	(406245) 2007 DP <sub>13</sub>	2007 02 16	106	Črni Vrh
(406194) 2006 WA <sub>179</sub>	2006 11 24	G96	Mt. Lemmon Survey	(406246) 2007 DE <sub>21</sub>	2007 01 28	691	Mt. Lemmon Survey
(406195) 2006 WR <sub>185</sub>	2006 11 16	703	CSS	(406247) 2007 DT <sub>22</sub>	2007 02 17	691	Spacewatch
(406196) 2006 WP <sub>190</sub>	2006 11 25	691	Spacewatch	(406248) 2007 DX <sub>25</sub>	2007 01 27	691	Mt. Lemmon Survey
(406197) 2006 WV <sub>194</sub>	2006 11 18	704	Mt. Lemmon Survey	(406249) 2007 DG <sub>32</sub>	2007 02 17	691	Spacewatch
(406198) 2006 WX <sub>199</sub>	2006 11 16	G96	Mt. Lemmon Survey	(406250) 2007 DL <sub>32</sub>	2007 02 17	691	Spacewatch
(406199) 2006 WQ <sub>200</sub>	2006 11 22	691	Spacewatch	(406251) 2007 DY <sub>32</sub>	2007 01 27	691	Mt. Lemmon Survey
(406200) 2006 WP <sub>201</sub>	2006 11 22	704	LINEAR	(406252) 2007 DW <sub>38</sub>	2007 02 17	691	Spacewatch
(406201) 2006 XF <sub>16</sub>	2006 12 10	691	Spacewatch	(406253) 2007 DD <sub>43</sub>	2007 02 08	703	Spacewatch
(406202) 2006 XV <sub>16</sub>	2006 11 27	691	Mt. Lemmon Survey	(406254) 2007 DA <sub>55</sub>	2004 08 23	704	Spacewatch
(406203) 2006 XL <sub>25</sub>	2006 12 12	G96	Mt. Lemmon Survey	(406255) 2007 DP <sub>63</sub>	2007 02 21	691	Spacewatch
(406204) 2006 XB <sub>38</sub>	2006 12 11	691	Spacewatch	(406256) 2007 DH <sub>91</sub>	2007 02 23	G96	Mt. Lemmon Survey
(406205) 2006 XM <sub>63</sub>	2006 09 19	644	CSS	(406257) 2007 DE <sub>96</sub>	2007 02 23	691	Spacewatch
(406206) 2006 XT <sub>63</sub>	2006 11 15	644	CSS	(406258) 2007 DQ <sub>115</sub>	2007 02 21	G96	Mt. Lemmon Survey
(406207) 2006 XN <sub>65</sub>	2006 12 12	644	NEAT	(406259) 2007 DB <sub>116</sub>	2005 11 04	691	Spacewatch
(406208) 2006 YP <sub>8</sub>	2006 12 20	G96	Mt. Lemmon Survey	(406260) 2007 DS <sub>116</sub>	2007 02 17	106	Črni Vrh
(406209) 2006 YW <sub>22</sub>	2006 12 13	691	Spacewatch	(406261) 2007 DN <sub>117</sub>	2007 02 25	G96	Mt. Lemmon Survey
(406210) 2006 YN <sub>38</sub>	2006 11 25	691	Mt. Lemmon Survey	(406262) 2007 EB <sub>4</sub>	2007 03 09	691	Spacewatch
(406211) 2006 YV <sub>45</sub>	2006 11 16	703	LINEAR	(406263) 2007 ER <sub>8</sub>	2007 03 09	G96	Mt. Lemmon Survey
(406212) 2006 YP <sub>47</sub>	2006 12 14	703	Spacewatch	(406264) 2007 EY <sub>28</sub>	2007 03 09	G96	Mt. Lemmon Survey
(406213) 2007 AB <sub>2</sub>	2007 01 10	703	CSS	(406265) 2007 ED <sub>46</sub>	2007 03 09	G96	Mt. Lemmon Survey
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(406526) 2007 VG <sub>255</sub>	2007 11 11	G96	Mt. Lemmon Survey	(406578) 2008 AD <sub>48</sub>	2007 12 04	691	Mt. Lemmon Survey
(406527) 2007 VH <sub>260</sub>	2007 11 15	699	LONEOS	(406579) 2008 AA <sub>75</sub>	2007 12 30	691	Spacewatch
(406528) 2007 VV <sub>273</sub>	2007 10 20	G96	Mt. Lemmon Survey	(406580) 2008 AG <sub>78</sub>	2008 01 12	691	Spacewatch
(406529) 2007 VY <sub>274</sub>	2007 11 13	G96	Mt. Lemmon Survey	(406581) 2008 AA <sub>79</sub>	2008 01 12	691	Spacewatch
(406530) 2007 VS <sub>290</sub>	2007 11 01	691	Spacewatch	(406582) 2008 AK <sub>81</sub>	2008 01 12	691	Spacewatch



(406583) 2008 AE <sub>85</sub>	2008 01 13	691	Spacewatch	(406635) 2008 CT <sub>195</sub>	2008 02 02	691	Spacewatch
(406584) 2008 AK <sub>90</sub>	2008 01 13	691	Spacewatch	(406636) 2008 CX <sub>195</sub>	2008 02 09	691	Spacewatch
(406585) 2008 AP <sub>97</sub>	2008 01 14	691	Spacewatch	(406637) 2008 CX <sub>199</sub>	2008 02 13	691	Spacewatch
(406586) 2008 AL <sub>98</sub>	2008 01 14	691	Spacewatch	(406638) 2008 CQ <sub>201</sub>	2008 02 03	691	Spacewatch
(406587) 2008 AX <sub>103</sub>	2007 12 28	691	Spacewatch	(406639) 2008 CU <sub>202</sub>	2008 02 08	691	Spacewatch
(406588) 2008 BZ <sub>14</sub>	1996 05 11	A55	Spacewatch	(406640) 2008 CQ <sub>207</sub>	2008 02 07	691	Spacewatch
(406589) 2008 BJ <sub>17</sub>	2003 12 19	703	LINEAR	(406641) 2008 CY <sub>212</sub>	2008 02 09	G96	Mt. Lemmon Survey
(406590) 2008 BC <sub>29</sub>	2008 01 19	G96	Spacewatch	(406642) 2008 DB <sub>1</sub>	2008 02 24	691	Spacewatch
(406591) 2008 BG <sub>29</sub>	2007 12 30	G96	Mt. Lemmon Survey	(406643) 2008 DX <sub>6</sub>	2008 02 24	691	Spacewatch
(406592) 2008 BH <sub>30</sub>	2008 01 10	G96	Spacewatch	(406644) 2008 DP <sub>19</sub>	2008 02 27	G96	Mt. Lemmon Survey
(406593) 2008 BQ <sub>36</sub>	2008 01 30	691	Spacewatch	(406645) 2008 DB <sub>20</sub>	2008 02 28	691	Spacewatch
(406594) 2008 BA <sub>44</sub>	2007 11 18	703	Mt. Lemmon Survey	(406646) 2008 DX <sub>24</sub>	2008 02 13	G96	LINEAR
(406595) 2008 BO <sub>46</sub>	2008 01 30	G96	Mt. Lemmon Survey	(406647) 2008 DO <sub>26</sub>	2008 02 28	691	Spacewatch
(406596) 2008 CW <sub>2</sub>	2008 02 01	G96	Mt. Lemmon Survey	(406648) 2008 DP <sub>39</sub>	2008 02 27	G96	Mt. Lemmon Survey
(406597) 2008 CT <sub>3</sub>	2008 02 02	291	Spacewatch	(406649) 2008 DV <sub>39</sub>	2008 02 27	G96	Mt. Lemmon Survey
(406598) 2008 CL <sub>9</sub>	2008 01 10	G96	Spacewatch	(406650) 2008 DO <sub>56</sub>	2008 02 26	704	LINEAR
(406599) 2008 CU <sub>18</sub>	2008 01 10	691	Mt. Lemmon Survey	(406651) 2008 DE <sub>59</sub>	2008 02 27	691	Spacewatch
(406600) 2008 CF <sub>24</sub>	2008 02 01	691	Spacewatch	(406652) 2008 DH <sub>59</sub>	2008 02 27	G96	Mt. Lemmon Survey
(406601) 2008 CF <sub>26</sub>	2008 02 02	691	Spacewatch	(406653) 2008 DG <sub>67</sub>	2008 02 11	691	Mt. Lemmon Survey
(406602) 2008 CP <sub>37</sub>	2008 02 02	691	Spacewatch	(406654) 2008 DR <sub>72</sub>	2008 02 07	G96	Spacewatch
(406603) 2008 CM <sub>44</sub>	2008 02 02	691	Spacewatch	(406655) 2008 DX <sub>74</sub>	2008 02 07	G96	Mt. Lemmon Survey
(406604) 2008 CT <sub>44</sub>	2008 02 02	691	Spacewatch	(406656) 2008 DZ <sub>77</sub>	2008 02 01	G96	Spacewatch
(406605) 2008 CB <sub>47</sub>	2008 02 03	703	CSS	(406657) 2008 DF <sub>78</sub>	2008 02 10	G96	Spacewatch
(406606) 2008 CM <sub>56</sub>	2008 01 18	G96	Spacewatch	(406658) 2008 DD <sub>89</sub>	2008 02 28	703	CSS
(406607) 2008 CD <sub>57</sub>	2008 02 07	G96	Mt. Lemmon Survey	(406659) 2008 EE <sub>16</sub>	2008 03 01	691	Spacewatch
(406608) 2008 CJ <sub>58</sub>	2008 02 07	691	Spacewatch	(406660) 2008 EQ <sub>17</sub>	2008 03 01	691	Spacewatch
(406609) 2008 CY <sub>59</sub>	2008 02 07	691	Spacewatch	(406661) 2008 EB <sub>20</sub>	2008 03 02	691	Spacewatch
(406610) 2008 CJ <sub>62</sub>	2006 10 03	691	Mt. Lemmon Survey	(406662) 2008 EG <sub>22</sub>	2008 03 02	D29	PMO NEO Survey Program
(406611) 2008 CO <sub>65</sub>	2008 02 08	G96	Spacewatch	(406663) 2008 EC <sub>26</sub>	2008 02 08	691	Mt. Lemmon Survey
(406612) 2008 CP <sub>67</sub>	2008 02 08	G96	Spacewatch	(406664) 2008 EA <sub>46</sub>	2008 03 05	691	Spacewatch
(406613) 2008 CW <sub>70</sub>	2008 02 10	A44	Ries, W.	(406665) 2008 ES <sub>47</sub>	2008 03 05	G96	Mt. Lemmon Survey
(406614) 2008 CL <sub>89</sub>	2008 02 07	691	Spacewatch	(406666) 2008 EZ <sub>50</sub>	2008 02 27	691	Spacewatch
(406615) 2008 CD <sub>92</sub>	2008 02 08	691	Spacewatch	(406667) 2008 EQ <sub>56</sub>	2008 03 07	703	CSS
(406616) 2008 CX <sub>95</sub>	2007 11 07	691	Mt. Lemmon Survey	(406668) 2008 EL <sub>57</sub>	2008 03 07	691	Spacewatch
(406617) 2008 CK <sub>100</sub>	2008 02 09	691	Spacewatch	(406669) 2008 EM <sub>60</sub>	2008 03 08	703	CSS
(406618) 2008 CD <sub>112</sub>	2008 01 11	691	Spacewatch	(406670) 2008 EZ <sub>60</sub>	2008 03 08	291	Spacewatch
(406619) 2008 CM <sub>112</sub>	2007 12 30	691	Mt. Lemmon Survey	(406671) 2008 EK <sub>75</sub>	2008 03 07	691	Spacewatch
(406620) 2008 CU <sub>121</sub>	2008 02 07	703	CSS	(406672) 2008 ET <sub>87</sub>	2008 03 10	G96	Mt. Lemmon Survey
(406621) 2008 CB <sub>127</sub>	2008 02 08	691	Spacewatch	(406673) 2008 ES <sub>90</sub>	2007 12 16	691	Mt. Lemmon Survey
(406622) 2008 CX <sub>131</sub>	2008 02 08	691	Spacewatch	(406674) 2008 EY <sub>95</sub>	2008 03 06	G96	Mt. Lemmon Survey
(406623) 2008 CT <sub>133</sub>	2008 02 08	691	Spacewatch	(406675) 2008 EG <sub>99</sub>	2008 03 04	703	CSS
(406624) 2008 CC <sub>134</sub>	2008 02 08	G96	Spacewatch	(406676) 2008 EJ <sub>102</sub>	2008 02 11	G96	Mt. Lemmon Survey
(406625) 2008 CK <sub>135</sub>	2006 10 02	G96	Mt. Lemmon Survey	(406677) 2008 EO <sub>110</sub>	2008 03 08	G96	Mt. Lemmon Survey
(406626) 2008 CC <sub>141</sub>	2007 12 20	691	Mt. Lemmon Survey	(406678) 2008 EB <sub>111</sub>	2005 10 08	691	Spacewatch
(406627) 2008 CY <sub>141</sub>	2008 02 01	691	Spacewatch	(406679) 2008 EJ <sub>113</sub>	2007 12 14	703	Mt. Lemmon Survey
(406628) 2008 CN <sub>154</sub>	2008 02 09	G96	Mt. Lemmon Survey	(406680) 2008 ES <sub>113</sub>	2008 03 08	G96	Mt. Lemmon Survey
(406629) 2008 CP <sub>162</sub>	2008 02 10	691	Spacewatch	(406681) 2008 ES <sub>115</sub>	2008 03 08	G96	Mt. Lemmon Survey
(406630) 2008 CV <sub>170</sub>	2008 02 12	G96	Mt. Lemmon Survey	(406682) 2008 EJ <sub>118</sub>	2008 02 03	G96	CSS
(406631) 2008 CE <sub>178</sub>	2008 02 06	703	CSS	(406683) 2008 ES <sub>125</sub>	2008 03 10	G96	Mt. Lemmon Survey
(406632) 2008 CV <sub>180</sub>	2008 02 09	703	CSS	(406684) 2008 EL <sub>140</sub>	2008 03 12	691	Spacewatch
(406633) 2008 CM <sub>186</sub>	2007 11 11	703	Mt. Lemmon Survey	(406685) 2008 EP <sub>147</sub>	2008 03 01	691	Spacewatch
(406634) 2008 CN <sub>188</sub>	2008 01 18	699	Mt. Lemmon Survey	(406686) 2008 EN <sub>150</sub>	2008 03 10	691	Spacewatch



(406687) 2008 EQ <sub>154</sub>	2008 03 06	G96	Mt. Lemmon Survey	(406739) 2008 HQ <sub>4</sub>	2008 03 29	621	CSS
(406688) 2008 EA <sub>157</sub>	2008 03 13	691	Spacewatch	(406740) 2008 HY <sub>4</sub>	2008 03 13	691	Spacewatch
(406689) 2008 ES <sub>157</sub>	2008 03 01	691	Spacewatch	(406741) 2008 HV <sub>24</sub>	2008 04 27	291	Spacewatch
(406690) 2008 EE <sub>158</sub>	2008 03 05	G96	Mt. Lemmon Survey	(406742) 2008 HB <sub>26</sub>	2008 04 27	691	Spacewatch
(406691) 2008 EL <sub>166</sub>	2008 03 06	703	CSS	(406743) 2008 HZ <sub>36</sub>	2008 04 14	G96	Spacewatch
(406692) 2008 EL <sub>167</sub>	2008 03 08	704	LINEAR	(406744) 2008 HW <sub>60</sub>	2008 04 14	691	CSS
(406693) 2008 FJ <sub>2</sub>	2008 02 12	691	Mt. Lemmon Survey	(406745) 2008 HU <sub>66</sub>	2008 04 25	691	Spacewatch
(406694) 2008 FX <sub>4</sub>	2008 03 26	G96	Mt. Lemmon Survey	(406746) 2008 HV <sub>67</sub>	2008 04 25	691	Spacewatch
(406695) 2008 FE <sub>6</sub>	2002 12 05	G92	LINEAR	(406747) 2008 HV <sub>69</sub>	2008 04 29	691	Spacewatch
(406696) 2008 FA <sub>8</sub>	2008 03 25	691	Spacewatch	(406748) 2008 JA <sub>4</sub>	2008 05 01	691	Spacewatch
(406697) 2008 FM <sub>10</sub>	2008 03 26	691	Spacewatch	(406749) 2008 JJ <sub>10</sub>	2008 05 03	691	Spacewatch
(406698) 2008 FQ <sub>13</sub>	2008 03 26	G96	Mt. Lemmon Survey	(406750) 2008 JU <sub>12</sub>	2008 05 03	691	Spacewatch
(406699) 2008 FD <sub>18</sub>	2008 03 11	G96	CSS	(406751) 2008 JN <sub>13</sub>	2005 12 05	G96	Spacewatch
(406700) 2008 FQ <sub>20</sub>	2008 03 10	691	Mt. Lemmon Survey	(406752) 2008 JD <sub>22</sub>	2008 05 06	691	Spacewatch
(406701) 2008 FL <sub>22</sub>	2008 03 27	691	Spacewatch	(406753) 2008 JN <sub>27</sub>	2008 05 08	691	Spacewatch
(406702) 2008 FC <sub>23</sub>	2008 03 10	691	Mt. Lemmon Survey	(406754) 2008 JY <sub>27</sub>	2008 05 08	691	Spacewatch
(406703) 2008 FJ <sub>23</sub>	2008 03 27	691	Spacewatch	(406755) 2008 JQ <sub>29</sub>	2008 05 13	G96	Mt. Lemmon Survey
(406704) 2008 FZ <sub>23</sub>	2008 03 27	691	Spacewatch	(406756) 2008 JN <sub>30</sub>	2008 05 11	691	Spacewatch
(406705) 2008 FZ <sub>37</sub>	2008 03 28	691	Spacewatch	(406757) 2008 JP <sub>34</sub>	2008 05 15	691	Spacewatch
(406706) 2008 FM <sub>39</sub>	2008 03 10	691	Spacewatch	(406758) 2008 JW <sub>39</sub>	2008 05 06	G96	Mt. Lemmon Survey
(406707) 2008 FO <sub>39</sub>	2008 03 10	691	Spacewatch	(406759) 2008 JR <sub>40</sub>	2008 05 15	691	Spacewatch
(406708) 2008 FF <sub>42</sub>	2008 03 28	G96	Mt. Lemmon Survey	(406760) 2008 KD <sub>1</sub>	2008 05 26	691	Spacewatch
(406709) 2008 FG <sub>46</sub>	2008 03 28	G96	Mt. Lemmon Survey	(406761) 2008 KB <sub>7</sub>	2008 05 26	691	Spacewatch
(406710) 2008 FG <sub>57</sub>	2008 03 28	G96	Mt. Lemmon Survey	(406762) 2008 KJ <sub>9</sub>	2008 05 27	691	Spacewatch
(406711) 2008 FU <sub>61</sub>	2008 03 31	595	Farra d'Isonzo	(406763) 2008 KX <sub>9</sub>	2008 04 24	691	Spacewatch
(406712) 2008 FQ <sub>78</sub>	2008 03 15	G96	Mt. Lemmon Survey	(406764) 2008 KB <sub>14</sub>	2008 05 14	691	Spacewatch
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(406714) 2008 FA <sub>111</sub>	2008 03 31	691	Spacewatch	(406766) 2008 KZ <sub>30</sub>	2008 05 29	691	Spacewatch
(406715) 2008 FA <sub>119</sub>	2008 03 31	G96	Mt. Lemmon Survey	(406767) 2008 KS <sub>42</sub>	2008 05 29	691	Spacewatch
(406716) 2008 FX <sub>122</sub>	2008 03 28	691	Spacewatch	(406768) 2008 LH <sub>5</sub>	2000 01 07	G96	Spacewatch
(406717) 2008 FB <sub>137</sub>	2008 03 29	691	Spacewatch	(406769) 2008 LL <sub>8</sub>	2008 04 14	291	Mt. Lemmon Survey
(406718) 2008 GT <sub>14</sub>	2008 04 03	G96	Mt. Lemmon Survey	(406770) 2008 OJ	2008 07 25	J75	OAM
(406719) 2008 GC <sub>16</sub>	2006 11 23	G96	Spacewatch	(406771) 2008 OH <sub>21</sub>	2008 07 30	703	CSS
(406720) 2008 GC <sub>22</sub>	2008 03 27	691	Spacewatch	(406772) 2008 OM <sub>21</sub>	2008 07 30	691	Spacewatch
(406721) 2008 GE <sub>24</sub>	2008 04 01	G96	Mt. Lemmon Survey	(406773) 2008 OM <sub>22</sub>	2008 07 26	E12	Siding Spring Survey
(406722) 2008 GZ <sub>29</sub>	2008 04 03	G96	Mt. Lemmon Survey	(406774) 2008 PO <sub>1</sub>	2008 07 30	A77	Spacewatch
(406723) 2008 GU <sub>33</sub>	2008 03 05	G96	Spacewatch	(406775) 2008 PB <sub>2</sub>	2008 08 03	J75	OAM
(406724) 2008 GE <sub>41</sub>	2007 01 17	691	Spacewatch	(406776) 2008 PB <sub>21</sub>	2008 08 03	E12	Siding Spring Survey
(406725) 2008 GE <sub>47</sub>	2008 04 04	691	Spacewatch	(406777) 2008 QP <sub>29</sub>	2008 08 24	J75	OAM
(406726) 2008 GN <sub>55</sub>	2008 03 13	G96	Spacewatch	(406778) 2008 QZ <sub>47</sub>	2008 08 24	704	LINEAR
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(406728) 2008 GE <sub>75</sub>	2003 04 07	691	Spacewatch	(406780) 2008 RN <sub>11</sub>	2005 03 11	691	Mt. Lemmon Survey
(406729) 2008 GM <sub>78</sub>	2008 04 07	691	Spacewatch	(406781) 2008 RN <sub>16</sub>	2008 09 04	691	Spacewatch
(406730) 2008 GP <sub>87</sub>	2008 04 05	G96	Mt. Lemmon Survey	(406782) 2008 RT <sub>27</sub>	2008 09 08	E16	Tozzi, F.
(406731) 2008 GV <sub>87</sub>	2008 04 05	703	CSS	(406783) 2008 RC <sub>71</sub>	2008 09 06	G96	Mt. Lemmon Survey
(406732) 2008 GS <sub>101</sub>	2008 04 10	691	Spacewatch	(406784) 2008 RV <sub>74</sub>	2008 09 06	703	CSS
(406733) 2008 GK <sub>106</sub>	2008 04 11	G96	Mt. Lemmon Survey	(406785) 2008 RZ <sub>76</sub>	2008 09 06	703	CSS
(406734) 2008 GE <sub>114</sub>	2005 10 09	691	Spacewatch	(406786) 2008 RN <sub>82</sub>	2008 09 04	691	Spacewatch
(406735) 2008 GB <sub>129</sub>	2008 04 01	G96	Mt. Lemmon Survey	(406787) 2008 RH <sub>109</sub>	2008 09 02	691	Spacewatch
(406736) 2008 GA <sub>142</sub>	2008 04 01	G96	Mt. Lemmon Survey	(406788) 2008 RT <sub>138</sub>	2008 09 06	703	CSS
(406737) 2008 HP <sub>2</sub>	2008 04 25	185	Ory, M.	(406789) 2008 SF <sub>14</sub>	2008 09 07	691	Mt. Lemmon Survey
(406738) 2008 HU <sub>2</sub>	2008 04 04	J75	CSS	(406790) 2008 SG <sub>89</sub>	2008 09 21	691	Spacewatch



(406791) 2008 SF <sub>90</sub>	2008 09 21	691	Spacewatch	(406843) 2009 AJ <sub>37</sub>	2009 01 15	691	Spacewatch
(406792) 2008 SN <sub>143</sub>	2008 09 24	G96	Mt. Lemmon Survey	(406844) 2009 AX <sub>43</sub>	2009 01 02	691	Spacewatch
(406793) 2008 SG <sub>258</sub>	2008 09 22	691	Spacewatch	(406845) 2009 AC <sub>47</sub>	2009 01 15	691	Spacewatch
(406794) 2008 TR <sub>65</sub>	2008 10 02	703	CSS	(406846) 2009 BA <sub>5</sub>	2009 01 19	704	LINEAR
(406795) 2008 TS <sub>67</sub>	2008 10 02	691	Spacewatch	(406847) 2009 BC <sub>9</sub>	2008 12 29	704	Spacewatch
(406796) 2008 TH <sub>103</sub>	2008 10 02	691	Spacewatch	(406848) 2009 BM <sub>24</sub>	2009 01 17	703	CSS
(406797) 2008 TG <sub>141</sub>	2008 09 02	G96	Spacewatch	(406849) 2009 BH <sub>25</sub>	2009 01 18	G96	Mt. Lemmon Survey
(406798) 2008 TG <sub>184</sub>	2008 10 06	704	LINEAR	(406850) 2009 BR <sub>31</sub>	2009 01 02	691	Mt. Lemmon Survey
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(406800) 2008 US <sub>24</sub>	2008 10 20	691	Spacewatch	(406852) 2009 BT <sub>35</sub>	2009 01 16	691	Spacewatch
(406801) 2008 UX <sub>28</sub>	2008 10 20	691	Spacewatch	(406853) 2009 BQ <sub>63</sub>	2009 01 20	691	Spacewatch
(406802) 2008 UM <sub>46</sub>	2008 07 29	691	Mt. Lemmon Survey	(406854) 2009 BW <sub>63</sub>	2009 01 20	691	Spacewatch
(406803) 2008 UX <sub>64</sub>	2008 10 21	691	Spacewatch	(406855) 2009 BM <sub>74</sub>	2009 01 18	703	CSS
(406804) 2008 UY <sub>66</sub>	2008 10 21	691	Spacewatch	(406856) 2009 BM <sub>88</sub>	2007 11 01	691	Mt. Lemmon Survey
(406805) 2008 UJ <sub>116</sub>	2008 10 22	691	Spacewatch	(406857) 2009 BB <sub>96</sub>	2009 01 28	703	CSS
(406806) 2008 UB <sub>120</sub>	2008 10 22	691	Spacewatch	(406858) 2009 BQ <sub>100</sub>	2009 01 29	691	Spacewatch
(406807) 2008 UM <sub>133</sub>	2008 10 23	691	Spacewatch	(406859) 2009 BH <sub>102</sub>	2009 01 29	G96	Mt. Lemmon Survey
(406808) 2008 UN <sub>186</sub>	2008 09 22	291	Mt. Lemmon Survey	(406860) 2009 BN <sub>112</sub>	2009 01 31	G96	Mt. Lemmon Survey
(406809) 2008 UM <sub>209</sub>	2008 10 23	691	Spacewatch	(406861) 2009 BP <sub>114</sub>	2008 12 30	691	Mt. Lemmon Survey
(406810) 2008 UK <sub>239</sub>	2008 10 26	691	Spacewatch	(406862) 2009 BR <sub>115</sub>	2009 01 29	691	Spacewatch
(406811) 2008 UA <sub>304</sub>	2008 10 29	G96	Mt. Lemmon Survey	(406863) 2009 BF <sub>121</sub>	2009 01 17	691	Mt. Lemmon Survey
(406812) 2008 UD <sub>323</sub>	2008 10 31	291	Spacewatch	(406864) 2009 BC <sub>126</sub>	2009 01 29	691	Spacewatch
(406813) 2008 VA <sub>57</sub>	2008 09 27	G96	Mt. Lemmon Survey	(406865) 2009 BB <sub>127</sub>	2007 10 18	691	Spacewatch
(406814) 2008 WN <sub>29</sub>	2008 11 19	691	Spacewatch	(406866) 2009 BA <sub>133</sub>	2008 12 21	703	Mt. Lemmon Survey
(406815) 2008 WA <sub>69</sub>	2008 11 18	691	Spacewatch	(406867) 2009 BY <sub>159</sub>	2009 01 30	G96	Mt. Lemmon Survey
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(406817) 2008 WB <sub>105</sub>	2008 11 30	G96	Mt. Lemmon Survey	(406869) 2009 BU <sub>170</sub>	2009 01 16	G96	Mt. Lemmon Survey
(406818) 2008 WN <sub>108</sub>	2008 11 30	703	CSS	(406870) 2009 BJ <sub>172</sub>	2009 01 18	691	Spacewatch
(406819) 2008 WF <sub>140</sub>	2008 11 24	G96	Mt. Lemmon Survey	(406871) 2009 BX <sub>172</sub>	2009 01 19	G96	Mt. Lemmon Survey
(406820) 2008 XF <sub>1</sub>	2008 12 02	H36	Hug, G.	(406872) 2009 BL <sub>173</sub>	2009 01 20	691	Spacewatch
(406821) 2008 XX <sub>34</sub>	2008 11 19	691	Mt. Lemmon Survey	(406873) 2009 BW <sub>179</sub>	2009 01 18	691	Spacewatch
(406822) 2008 XQ <sub>51</sub>	2008 10 30	G96	Mt. Lemmon Survey	(406874) 2009 BG <sub>183</sub>	2005 03 04	691	Mt. Lemmon Survey
(406823) 2008 YN <sub>16</sub>	2008 12 21	G96	Mt. Lemmon Survey	(406875) 2009 CF <sub>2</sub>	2009 01 26	H10	CSS
(406824) 2008 YR <sub>16</sub>	2008 12 21	G96	Mt. Lemmon Survey	(406876) 2009 CZ <sub>11</sub>	2009 02 01	G96	Mt. Lemmon Survey
(406825) 2008 YR <sub>21</sub>	2008 12 21	G96	Mt. Lemmon Survey	(406877) 2009 CJ <sub>29</sub>	2009 02 01	691	Spacewatch
(406826) 2008 YL <sub>62</sub>	2008 12 30	G96	Mt. Lemmon Survey	(406878) 2009 CG <sub>31</sub>	2009 02 01	691	Spacewatch
(406827) 2008 YN <sub>97</sub>	2008 12 29	G96	Mt. Lemmon Survey	(406879) 2009 CR <sub>32</sub>	2009 02 01	691	Spacewatch
(406828) 2008 YS <sub>101</sub>	2008 12 29	691	Spacewatch	(406880) 2009 CF <sub>55</sub>	2007 09 14	G96	Mt. Lemmon Survey
(406829) 2008 YX <sub>101</sub>	2008 12 29	691	Spacewatch	(406881) 2009 CB <sub>57</sub>	2009 02 05	691	Spacewatch
(406830) 2008 YF <sub>116</sub>	2008 12 21	691	Mt. Lemmon Survey	(406882) 2009 CJ <sub>58</sub>	2009 02 03	691	Spacewatch
(406831) 2008 YA <sub>117</sub>	2008 11 21	691	Mt. Lemmon Survey	(406883) 2009 CP <sub>58</sub>	2009 02 03	G96	Mt. Lemmon Survey
(406832) 2008 YS <sub>118</sub>	2008 12 29	691	Spacewatch	(406884) 2009 CC <sub>63</sub>	2009 02 04	G96	Mt. Lemmon Survey
(406833) 2008 YA <sub>130</sub>	2008 12 22	691	Spacewatch	(406885) 2009 CF <sub>65</sub>	2009 02 01	691	Spacewatch
(406834) 2008 YE <sub>139</sub>	2008 12 04	691	Mt. Lemmon Survey	(406886) 2009 CH <sub>65</sub>	2009 02 04	G96	Mt. Lemmon Survey
(406835) 2008 YQ <sub>154</sub>	2008 12 22	691	Spacewatch	(406887) 2009 DP <sub>13</sub>	2009 02 16	691	Spacewatch
(406836) 2008 YK <sub>155</sub>	2008 12 22	691	Spacewatch	(406888) 2009 DQ <sub>16</sub>	2009 01 01	J75	Mt. Lemmon Survey
(406837) 2008 YE <sub>160</sub>	2008 12 30	G96	Mt. Lemmon Survey	(406889) 2009 DV <sub>16</sub>	2009 02 18	J75	OAM
(406838) 2009 AZ <sub>1</sub>	2009 01 02	A77	Kugel, F.	(406890) 2009 DJ <sub>28</sub>	2009 01 20	493	Spacewatch
(406839) 2009 AG <sub>14</sub>	2009 01 02	G96	Mt. Lemmon Survey	(406891) 2009 DY <sub>49</sub>	2009 02 19	691	Spacewatch
(406840) 2009 AU <sub>14</sub>	2009 01 02	G96	Mt. Lemmon Survey	(406892) 2009 DA <sub>57</sub>	1994 10 08	691	Spacewatch
(406841) 2009 AV <sub>31</sub>	2009 01 15	691	Spacewatch	(406893) 2009 DD <sub>59</sub>	2009 02 22	691	Spacewatch
(406842) 2009 AN <sub>35</sub>	2009 01 15	691	Spacewatch	(406894) 2009 DP <sub>62</sub>	2009 02 22	G96	Mt. Lemmon Survey



(406895) 2009 DP <sub>73</sub>	2009 02 26	291	Spacewatch	(406947) 2009 JP <sub>5</sub>	2006 09 25	703	CSS
(406896) 2009 DX <sub>81</sub>	2009 02 24	691	Spacewatch	(406948) 2009 JA <sub>6</sub>	2007 11 11	691	Mt. Lemmon Survey
(406897) 2009 DV <sub>82</sub>	2009 02 24	691	Spacewatch	(406949) 2009 JH <sub>6</sub>	2009 04 20	691	Spacewatch
(406898) 2009 DB <sub>87</sub>	2009 02 27	691	Spacewatch	(406950) 2009 JQ <sub>8</sub>	2009 03 31	691	Mt. Lemmon Survey
(406899) 2009 DK <sub>89</sub>	2009 02 24	691	Spacewatch	(406951) 2009 JP <sub>12</sub>	2009 05 15	J75	OAM
(406900) 2009 DR <sub>105</sub>	2009 02 19	691	Spacewatch	(406952) 2009 KJ	2009 05 16	703	CSS
(406901) 2009 DH <sub>115</sub>	2009 02 26	703	CSS	(406953) 2009 KJ <sub>17</sub>	2009 05 26	691	Spacewatch
(406902) 2009 DB <sub>121</sub>	2009 01 31	691	Mt. Lemmon Survey	(406954) 2009 MY <sub>5</sub>	2009 06 22	691	Spacewatch
(406903) 2009 DH <sub>124</sub>	2009 02 19	691	Spacewatch	(406955) 2009 NA <sub>1</sub>	2005 10 31	J75	Mt. Lemmon Survey
(406904) 2009 DW <sub>124</sub>	2009 02 19	691	Spacewatch	(406956) 2009 NN <sub>2</sub>	2006 12 15	I41	Spacewatch
(406905) 2009 DV <sub>130</sub>	2005 04 15	691	Spacewatch	(406957) 2009 OK <sub>5</sub>	2009 07 21	114	Kryachko, T. V.
(406906) 2009 DZ <sub>131</sub>	2005 03 04	691	Mt. Lemmon Survey	(406958) 2009 OJ <sub>14</sub>	2009 07 29	703	CSS
(406907) 2009 DH <sub>136</sub>	2009 02 19	691	Spacewatch	(406959) 2009 OU <sub>15</sub>	2009 07 28	691	Spacewatch
(406908) 2009 DY <sub>136</sub>	2009 02 26	703	CSS	(406960) 2009 OK <sub>23</sub>	2009 07 27	691	Spacewatch
(406909) 2009 EQ <sub>4</sub>	2009 02 13	J75	Spacewatch	(406961) 2009 PF <sub>10</sub>	2007 02 23	J75	Mt. Lemmon Survey
(406910) 2009 EB <sub>13</sub>	2009 03 01	691	Mt. Lemmon Survey	(406962) 2009 PJ <sub>10</sub>	2008 05 28	J75	Spacewatch
(406911) 2009 EE <sub>21</sub>	2009 03 15	J75	OAM	(406963) 2009 PU <sub>15</sub>	2009 08 15	691	Spacewatch
(406912) 2009 EX <sub>24</sub>	2009 03 03	691	Spacewatch	(406964) 2009 PM <sub>19</sub>	2009 08 15	691	Spacewatch
(406913) 2009 EF <sub>28</sub>	2009 03 01	G96	Mt. Lemmon Survey	(406965) 2009 QJ <sub>3</sub>	2009 08 16	291	Spacewatch
(406914) 2009 FM <sub>6</sub>	2009 03 16	691	Spacewatch	(406966) 2009 QO <sub>3</sub>	2009 08 16	703	CSS
(406915) 2009 FL <sub>7</sub>	2009 03 16	691	Spacewatch	(406967) 2009 QP <sub>13</sub>	2009 08 16	691	Spacewatch
(406916) 2009 FC <sub>12</sub>	2009 03 18	291	Spacewatch	(406968) 2009 QW <sub>14</sub>	2009 08 16	691	Spacewatch
(406917) 2009 FB <sub>16</sub>	2009 03 17	691	Spacewatch	(406969) 2009 QL <sub>15</sub>	2009 08 16	691	Spacewatch
(406918) 2009 FG <sub>29</sub>	2009 03 22	703	CSS	(406970) 2009 QZ <sub>38</sub>	2009 08 20	691	Spacewatch
(406919) 2009 FW <sub>29</sub>	2009 03 21	G96	Mt. Lemmon Survey	(406971) 2009 QA <sub>41</sub>	2009 08 26	703	CSS
(406920) 2009 FJ <sub>31</sub>	2009 03 25	J75	OAM	(406972) 2009 QZ <sub>44</sub>	2004 09 22	703	LONEOS
(406921) 2009 FU <sub>42</sub>	2009 03 28	691	Spacewatch	(406973) 2009 QZ <sub>52</sub>	2009 08 29	691	Spacewatch
(406922) 2009 FN <sub>45</sub>	2009 03 18	G96	Mt. Lemmon Survey	(406974) 2009 QY <sub>53</sub>	2009 08 18	691	Spacewatch
(406923) 2009 FP <sub>49</sub>	2009 03 27	G96	Mt. Lemmon Survey	(406975) 2009 QE <sub>56</sub>	2009 08 27	691	Spacewatch
(406924) 2009 FR <sub>56</sub>	2009 03 23	E12	Siding Spring Survey	(406976) 2009 QL <sub>56</sub>	2009 08 17	691	Spacewatch
(406925) 2009 FU <sub>63</sub>	2009 03 29	691	Spacewatch	(406977) 2009 QF <sub>57</sub>	2009 08 20	691	Spacewatch
(406926) 2009 FC <sub>66</sub>	2009 03 19	G96	Mt. Lemmon Survey	(406978) 2009 QS <sub>61</sub>	2009 08 27	691	Spacewatch
(406927) 2009 GE <sub>1</sub>	2009 03 19	I08	Mt. Lemmon Survey	(406979) 2009 QE <sub>62</sub>	2009 08 28	691	Spacewatch
(406928) 2009 GL <sub>6</sub>	2009 04 02	691	Spacewatch	(406980) 2009 QG <sub>63</sub>	2009 08 28	704	LINEAR
(406929) 2009 HS <sub>11</sub>	2009 03 31	291	Mt. Lemmon Survey	(406981) 2009 QL <sub>64</sub>	2009 08 27	691	Spacewatch
(406930) 2009 HG <sub>14</sub>	2009 04 17	703	CSS	(406982) 2009 QZ <sub>64</sub>	1999 12 07	I41	LINEAR
(406931) 2009 HT <sub>20</sub>	2009 03 19	691	Mt. Lemmon Survey	(406983) 2009 RE <sub>5</sub>	2009 09 14	F65	Micheli, M.
(406932) 2009 HZ <sub>22</sub>	2009 04 17	691	Spacewatch	(406984) 2009 RW <sub>9</sub>	2009 09 12	691	Spacewatch
(406933) 2009 HZ <sub>27</sub>	2009 04 18	691	Spacewatch	(406985) 2009 RG <sub>11</sub>	2009 09 12	691	Spacewatch
(406934) 2009 HO <sub>40</sub>	2009 04 20	691	Spacewatch	(406986) 2009 RH <sub>13</sub>	2009 09 12	691	Spacewatch
(406935) 2009 HV <sub>56</sub>	2009 04 22	691	Spacewatch	(406987) 2009 RB <sub>16</sub>	2009 09 12	691	Spacewatch
(406936) 2009 HC <sub>66</sub>	2003 12 14	691	Spacewatch	(406988) 2009 RP <sub>25</sub>	2009 09 15	691	Spacewatch
(406937) 2009 HD <sub>68</sub>	2009 03 31	G96	Spacewatch	(406989) 2009 RF <sub>30</sub>	2009 09 14	691	Spacewatch
(406938) 2009 HD <sub>74</sub>	2009 04 20	703	CSS	(406990) 2009 RV <sub>37</sub>	2009 09 15	691	Spacewatch
(406939) 2009 HO <sub>74</sub>	2009 02 22	E12	Siding Spring Survey	(406991) 2009 RZ <sub>37</sub>	2009 09 15	691	Spacewatch
(406940) 2009 HZ <sub>77</sub>	2009 04 02	703	Mt. Lemmon Survey	(406992) 2009 RT <sub>40</sub>	2009 09 15	691	Spacewatch
(406941) 2009 HA <sub>89</sub>	2009 04 24	I08	Cerro Burek	(406993) 2009 RV <sub>42</sub>	2009 09 15	691	Spacewatch
(406942) 2009 HC <sub>96</sub>	2009 04 20	691	Spacewatch	(406994) 2009 RD <sub>45</sub>	2009 09 15	691	Spacewatch
(406943) 2009 HO <sub>96</sub>	2009 04 23	691	Spacewatch	(406995) 2009 RN <sub>46</sub>	2000 01 29	691	Spacewatch
(406944) 2009 HC <sub>105</sub>	2007 11 14	691	Mt. Lemmon Survey	(406996) 2009 RU <sub>47</sub>	2009 09 15	691	Spacewatch
(406945) 2009 HC <sub>106</sub>	2009 04 19	703	CSS	(406997) 2009 RS <sub>49</sub>	2009 09 15	691	Spacewatch
(406946) 2009 JW <sub>4</sub>	2009 04 20	691	CSS	(406998) 2009 RW <sub>50</sub>	2009 09 15	691	Spacewatch



(406999) 2009 RR <sub>53</sub>	2003 09 18	691	Spacewatch	(407051) 2009 SL <sub>133</sub>	2006 02 02	691	Spacewatch
(407000) 2009 RO <sub>57</sub>	2009 09 15	691	Spacewatch	(407052) 2009 SZ <sub>133</sub>	2009 09 18	691	Spacewatch
(407001) 2009 RF <sub>58</sub>	2009 09 15	691	Spacewatch	(407053) 2009 SY <sub>136</sub>	2009 09 18	691	Spacewatch
(407002) 2009 RS <sub>58</sub>	2009 09 15	691	Spacewatch	(407054) 2009 SR <sub>137</sub>	2009 09 18	691	Spacewatch
(407003) 2009 RF <sub>59</sub>	2009 09 15	691	Spacewatch	(407055) 2009 SR <sub>138</sub>	2009 09 18	691	Spacewatch
(407004) 2009 RH <sub>62</sub>	2009 09 15	691	Spacewatch	(407056) 2009 SY <sub>143</sub>	2009 09 19	691	Spacewatch
(407005) 2009 RT <sub>65</sub>	2009 09 15	691	Spacewatch	(407057) 2009 SA <sub>145</sub>	2009 09 19	G96	Mt. Lemmon Survey
(407006) 2009 RS <sub>72</sub>	2009 09 15	691	Spacewatch	(407058) 2009 SF <sub>151</sub>	2004 11 17	691	CINEOS
(407007) 2009 RT <sub>73</sub>	2009 09 15	691	Spacewatch	(407059) 2009 SP <sub>152</sub>	2009 09 20	G96	Mt. Lemmon Survey
(407008) 2009 RD <sub>74</sub>	2009 09 15	691	Spacewatch	(407060) 2009 SK <sub>154</sub>	2009 09 20	691	Spacewatch
(407009) 2009 RZ <sub>75</sub>	2009 09 15	691	Spacewatch	(407061) 2009 SJ <sub>157</sub>	2009 09 20	291	Spacewatch
(407010) 2009 SV <sub>5</sub>	2009 09 16	691	Spacewatch	(407062) 2009 SV <sub>164</sub>	2009 09 21	291	Spacewatch
(407011) 2009 SZ <sub>5</sub>	2009 09 16	691	Spacewatch	(407063) 2009 SB <sub>165</sub>	2009 09 21	691	Spacewatch
(407012) 2009 SW <sub>14</sub>	2009 09 18	300	BATTeRS	(407064) 2009 SO <sub>166</sub>	2009 09 22	G96	Mt. Lemmon Survey
(407013) 2009 SZ <sub>14</sub>	2009 09 19	703	CSS	(407065) 2009 SC <sub>167</sub>	2009 09 23	691	Spacewatch
(407014) 2009 SP <sub>15</sub>	2009 09 19	300	BATTeRS	(407066) 2009 SA <sub>169</sub>	2006 01 06	691	LONEOS
(407015) 2009 SL <sub>20</sub>	2009 09 22	A13	Kocher, P.	(407067) 2009 SF <sub>169</sub>	2004 08 14	G96	CINEOS
(407016) 2009 SZ <sub>21</sub>	2009 09 18	114	Kryachko, T. V.	(407068) 2009 SF <sub>173</sub>	2009 09 18	691	Spacewatch
(407017) 2009 SC <sub>25</sub>	2009 08 17	691	Spacewatch	(407069) 2009 SV <sub>183</sub>	2009 09 21	691	Spacewatch
(407018) 2009 SK <sub>26</sub>	2009 09 16	691	Spacewatch	(407070) 2009 SH <sub>192</sub>	2009 09 22	691	Spacewatch
(407019) 2009 SH <sub>27</sub>	2007 04 20	691	Spacewatch	(407071) 2009 SK <sub>192</sub>	2007 03 09	691	Spacewatch
(407020) 2009 SA <sub>28</sub>	2009 09 16	691	Spacewatch	(407072) 2009 SM <sub>194</sub>	2009 09 12	691	Spacewatch
(407021) 2009 SN <sub>35</sub>	2009 09 16	691	Spacewatch	(407073) 2009 SV <sub>197</sub>	2007 03 12	691	Spacewatch
(407022) 2009 SR <sub>37</sub>	2009 09 16	691	Spacewatch	(407074) 2009 SY <sub>197</sub>	2009 09 22	691	Spacewatch
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(407024) 2009 SL <sub>40</sub>	2009 09 16	691	Spacewatch	(407076) 2009 SV <sub>205</sub>	2007 04 16	691	Mt. Lemmon Survey
(407025) 2009 SS <sub>40</sub>	2009 09 16	691	Spacewatch	(407077) 2009 SM <sub>207</sub>	2009 09 15	691	Spacewatch
(407026) 2009 SK <sub>43</sub>	2009 09 16	691	Spacewatch	(407078) 2009 SN <sub>208</sub>	2009 09 23	691	Spacewatch
(407027) 2009 SG <sub>44</sub>	2009 09 16	691	Spacewatch	(407079) 2009 SX <sub>211</sub>	2009 09 23	691	Spacewatch
(407028) 2009 SV <sub>46</sub>	2009 09 16	691	Spacewatch	(407080) 2009 SE <sub>216</sub>	2009 09 24	691	Spacewatch
(407029) 2009 SR <sub>47</sub>	2009 09 16	691	Spacewatch	(407081) 2009 SH <sub>217</sub>	2009 09 24	691	Spacewatch
(407030) 2009 ST <sub>51</sub>	2009 09 17	G96	Mt. Lemmon Survey	(407082) 2009 SL <sub>222</sub>	2009 09 25	G96	Mt. Lemmon Survey
(407031) 2009 SW <sub>53</sub>	2009 09 17	691	Spacewatch	(407083) 2009 ST <sub>228</sub>	2009 08 15	G96	Spacewatch
(407032) 2009 ST <sub>54</sub>	2009 09 17	G96	Mt. Lemmon Survey	(407084) 2009 SV <sub>234</sub>	2009 07 31	J75	CSS
(407033) 2009 SC <sub>56</sub>	2009 09 17	691	Spacewatch	(407085) 2009 SZ <sub>244</sub>	2009 09 19	691	Spacewatch
(407034) 2009 SY <sub>64</sub>	2009 09 17	G96	Mt. Lemmon Survey	(407086) 2009 SO <sub>254</sub>	2009 09 23	691	Spacewatch
(407035) 2009 SA <sub>69</sub>	2009 09 17	691	Spacewatch	(407087) 2009 ST <sub>254</sub>	2009 09 17	691	Spacewatch
(407036) 2009 SM <sub>72</sub>	2009 09 17	G96	Mt. Lemmon Survey	(407088) 2009 SG <sub>255</sub>	2009 09 16	E12	Siding Spring Survey
(407037) 2009 SQ <sub>72</sub>	2009 09 17	G96	Mt. Lemmon Survey	(407089) 2009 SH <sub>259</sub>	2009 08 18	G96	Spacewatch
(407038) 2009 SL <sub>81</sub>	2009 08 15	G96	Spacewatch	(407090) 2009 SZ <sub>259</sub>	2004 09 13	G96	Spacewatch
(407039) 2009 SX <sub>94</sub>	2009 09 19	G96	Mt. Lemmon Survey	(407091) 2009 SF <sub>264</sub>	2009 09 23	G96	Mt. Lemmon Survey
(407040) 2009 SD <sub>98</sub>	2009 09 20	691	Spacewatch	(407092) 2009 SF <sub>268</sub>	2009 09 24	691	Spacewatch
(407041) 2009 SQ <sub>99</sub>	2009 09 20	B42	Nevski, V.	(407093) 2009 SN <sub>273</sub>	2007 02 21	691	Mt. Lemmon Survey
(407042) 2009 SF <sub>102</sub>	2009 09 21	A77	Mt. Lemmon Survey	(407094) 2009 SB <sub>274</sub>	2009 09 25	691	Spacewatch
(407043) 2009 SM <sub>107</sub>	2009 09 16	691	Spacewatch	(407095) 2009 SB <sub>275</sub>	2009 09 25	691	Spacewatch
(407044) 2009 SM <sub>110</sub>	1996 04 09	691	Spacewatch	(407096) 2009 SE <sub>276</sub>	2009 09 25	691	Spacewatch
(407045) 2009 SU <sub>110</sub>	2009 09 18	621	Bickel, W.	(407097) 2009 SW <sub>280</sub>	2009 09 17	691	Spacewatch
(407046) 2009 SG <sub>111</sub>	2004 10 08	691	Spacewatch	(407098) 2009 SY <sub>280</sub>	2009 09 25	691	Spacewatch
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(407048) 2009 SM <sub>113</sub>	2009 09 18	691	Spacewatch	(407100) 2009 SY <sub>283</sub>	2009 09 17	691	Spacewatch
(407049) 2009 SR <sub>123</sub>	2009 09 18	691	Spacewatch	(407101) 2009 SL <sub>284</sub>	2009 09 25	703	CSS
(407050) 2009 SF <sub>132</sub>	2009 09 18	691	Spacewatch	(407102) 2009 SO <sub>285</sub>	2009 08 27	G96	Spacewatch



(407103) 2009 SF <sub>287</sub>	2009 09 25	691	Spacewatch	(407155) 2009 UY <sub>4</sub>	2009 09 28	B01	Mt. Lemmon Survey
(407104) 2009 SK <sub>287</sub>	2009 09 25	691	Spacewatch	(407156) 2009 UP <sub>6</sub>	2009 10 16	G96	Mt. Lemmon Survey
(407105) 2009 SJ <sub>288</sub>	2009 09 25	691	Spacewatch	(407157) 2009 UG <sub>7</sub>	2009 10 16	G96	Mt. Lemmon Survey
(407106) 2009 SY <sub>288</sub>	2009 09 18	691	Spacewatch	(407158) 2009 UY <sub>7</sub>	2009 10 16	G96	Mt. Lemmon Survey
(407107) 2009 SR <sub>289</sub>	2009 09 25	691	Spacewatch	(407159) 2009 UQ <sub>18</sub>	2009 10 19	B01	Karge, S., Kling, R.
(407108) 2009 SS <sub>292</sub>	2009 09 26	691	Spacewatch	(407160) 2009 UX <sub>21</sub>	2007 04 14	703	Mt. Lemmon Survey
(407109) 2009 SS <sub>294</sub>	2009 09 27	703	CSS	(407161) 2009 UM <sub>25</sub>	2009 10 18	G96	Mt. Lemmon Survey
(407110) 2009 SY <sub>297</sub>	2009 09 28	G96	Mt. Lemmon Survey	(407162) 2009 UM <sub>26</sub>	2009 10 21	703	CSS
(407111) 2009 SN <sub>299</sub>	2009 09 29	G96	Mt. Lemmon Survey	(407163) 2009 UT <sub>26</sub>	2009 10 21	703	CSS
(407112) 2009 SX <sub>300</sub>	2009 09 16	691	Spacewatch	(407164) 2009 UK <sub>29</sub>	2009 10 18	G96	Mt. Lemmon Survey
(407113) 2009 SM <sub>304</sub>	2009 07 31	691	Spacewatch	(407165) 2009 UN <sub>30</sub>	2009 10 18	G96	Mt. Lemmon Survey
(407114) 2009 SZ <sub>304</sub>	2009 09 17	691	Spacewatch	(407166) 2009 UR <sub>34</sub>	2009 09 27	291	Mt. Lemmon Survey
(407115) 2009 SA <sub>307</sub>	2009 09 17	691	Spacewatch	(407167) 2009 UA <sub>37</sub>	2009 10 11	G96	Mt. Lemmon Survey
(407116) 2009 SC <sub>308</sub>	2009 09 17	G96	Mt. Lemmon Survey	(407168) 2009 UH <sub>37</sub>	2009 10 22	G96	Mt. Lemmon Survey
(407117) 2009 SL <sub>308</sub>	2009 08 27	G96	Spacewatch	(407169) 2009 UU <sub>42</sub>	1998 10 20	G96	Spacewatch
(407118) 2009 SE <sub>317</sub>	2009 08 28	G96	Spacewatch	(407170) 2009 UU <sub>46</sub>	2009 10 18	G96	Mt. Lemmon Survey
(407119) 2009 SY <sub>317</sub>	2009 09 20	691	Spacewatch	(407171) 2009 UC <sub>50</sub>	2009 10 22	G96	Mt. Lemmon Survey
(407120) 2009 SO <sub>326</sub>	2009 09 30	G96	Mt. Lemmon Survey	(407172) 2009 UW <sub>50</sub>	2009 09 21	703	Mt. Lemmon Survey
(407121) 2009 SW <sub>326</sub>	2009 09 18	703	CSS	(407173) 2009 UJ <sub>59</sub>	2009 09 21	G96	Mt. Lemmon Survey
(407122) 2009 SD <sub>327</sub>	2009 09 28	703	CSS	(407174) 2009 UP <sub>59</sub>	2009 09 27	291	Mt. Lemmon Survey
(407123) 2009 SH <sub>328</sub>	2009 09 26	691	Spacewatch	(407175) 2009 UY <sub>61</sub>	2009 10 17	G96	Mt. Lemmon Survey
(407124) 2009 SA <sub>329</sub>	2009 09 16	703	CSS	(407176) 2009 UD <sub>62</sub>	2009 10 17	G96	Mt. Lemmon Survey
(407125) 2009 SO <sub>334</sub>	2009 09 25	703	CSS	(407177) 2009 UW <sub>62</sub>	2009 09 21	G96	Spacewatch
(407126) 2009 SH <sub>340</sub>	2009 09 20	691	Spacewatch	(407178) 2009 UE <sub>63</sub>	2009 09 17	G96	Spacewatch
(407127) 2009 SO <sub>340</sub>	2009 09 20	691	Spacewatch	(407179) 2009 UQ <sub>67</sub>	2009 09 29	G96	Spacewatch
(407128) 2009 SC <sub>342</sub>	2009 09 16	691	Spacewatch	(407180) 2009 UN <sub>70</sub>	2006 01 23	G96	Mt. Lemmon Survey
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(407130) 2009 SO <sub>350</sub>	2009 09 26	691	Spacewatch	(407182) 2009 UB <sub>83</sub>	2009 10 23	G96	Mt. Lemmon Survey
(407131) 2009 SH <sub>355</sub>	2009 09 18	G96	Mt. Lemmon Survey	(407183) 2009 UN <sub>85</sub>	2008 06 06	G96	Spacewatch
(407132) 2009 SH <sub>357</sub>	2009 09 21	G96	Mt. Lemmon Survey	(407184) 2009 UR <sub>86</sub>	2009 10 24	703	CSS
(407133) 2009 SF <sub>359</sub>	2009 09 21	G96	Mt. Lemmon Survey	(407185) 2009 UV <sub>86</sub>	2009 10 24	691	Spacewatch
(407134) 2009 SF <sub>362</sub>	2009 09 20	G96	Mt. Lemmon Survey	(407186) 2009 UJ <sub>94</sub>	2009 10 21	703	CSS
(407135) 2009 SJ <sub>362</sub>	2009 09 21	G96	Mt. Lemmon Survey	(407187) 2009 UM <sub>94</sub>	2009 09 17	703	Mt. Lemmon Survey
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(407137) 2009 SH <sub>363</sub>	2009 09 16	691	Spacewatch	(407189) 2009 US <sub>98</sub>	2009 10 23	G96	Mt. Lemmon Survey
(407138) 2009 SW <sub>366</sub>	2004 10 13	I41	Spacewatch	(407190) 2009 UV <sub>115</sub>	2009 09 12	G96	Spacewatch
(407139) 2009 TD <sub>2</sub>	2009 10 11	H55	Astronomical Research Observatory	(407191) 2009 UY <sub>116</sub>	2009 10 22	G96	Mt. Lemmon Survey
(407140) 2009 TN <sub>4</sub>	2009 10 02	300	Mt. Lemmon Survey	(407192) 2009 US <sub>117</sub>	2009 10 22	G96	Mt. Lemmon Survey
(407141) 2009 TG <sub>6</sub>	2009 10 12	G96	Mt. Lemmon Survey	(407193) 2009 UH <sub>118</sub>	2009 10 23	G96	Mt. Lemmon Survey
(407142) 2009 TO <sub>10</sub>	2004 10 07	703	LONEOS	(407194) 2009 UW <sub>118</sub>	2009 09 18	G96	Spacewatch
(407143) 2009 TJ <sub>11</sub>	2009 10 13	621	Bickel, W.	(407195) 2009 UA <sub>121</sub>	2009 10 24	691	Spacewatch
(407144) 2009 TB <sub>15</sub>	2009 09 27	704	Mt. Lemmon Survey	(407196) 2009 UG <sub>122</sub>	2009 10 26	G96	Mt. Lemmon Survey
(407145) 2009 TP <sub>28</sub>	2009 09 16	G96	Spacewatch	(407197) 2009 UX <sub>129</sub>	2009 10 27	J75	OAM
(407146) 2009 TK <sub>32</sub>	2009 09 22	703	Mt. Lemmon Survey	(407198) 2009 UG <sub>132</sub>	2009 09 28	703	CSS
(407147) 2009 TL <sub>34</sub>	2009 10 11	J75	OAM	(407199) 2009 UW <sub>136</sub>	2009 10 25	703	CSS
(407148) 2009 TK <sub>35</sub>	2009 09 16	J75	Mt. Lemmon Survey	(407200) 2009 UF <sub>137</sub>	2009 10 28	J75	OAM
(407149) 2009 TE <sub>36</sub>	2009 10 14	703	CSS	(407201) 2009 UU <sub>142</sub>	2009 10 18	G96	Mt. Lemmon Survey
(407150) 2009 TW <sub>38</sub>	2009 10 02	703	Mt. Lemmon Survey	(407202) 2009 UR <sub>143</sub>	2003 10 16	G96	Spacewatch
(407151) 2009 TD <sub>39</sub>	2009 10 15	703	CSS	(407203) 2009 UU <sub>149</sub>	2009 10 26	G96	Mt. Lemmon Survey
(407152) 2009 TF <sub>41</sub>	2009 09 29	703	Mt. Lemmon Survey	(407204) 2009 UQ <sub>150</sub>	2009 10 18	G96	Mt. Lemmon Survey
(407153) 2009 TW <sub>44</sub>	2009 10 15	703	CSS	(407205) 2009 UY <sub>150</sub>	2009 10 23	691	Spacewatch
(407154) 2009 UH <sub>2</sub>	2009 10 18	H10	Chestnov, D., Novichonok, A.	(407206) 2009 UD <sub>153</sub>	2009 10 24	G96	Mt. Lemmon Survey



(407207) 2009 UK <sub>154</sub>	2009 10 22	300	BATTeRS	(407259) 2010 AS <sub>137</sub>	2009 10 01	C51	Mt. Lemmon Survey
(407208) 2009 VR <sub>1</sub>	2009 11 09	G98	Molnar, L. A.	(407260) 2010 BP <sub>1</sub>	2010 01 18	A77	Kugel, F.
(407209) 2009 VA <sub>2</sub>	2009 11 09	704	LINEAR	(407261) 2010 BQ <sub>3</sub>	2010 01 21	F65	Micheli, M.
(407210) 2009 VS <sub>2</sub>	2009 11 09	704	LINEAR	(407262) 2010 BX <sub>37</sub>	2010 01 14	C51	Mt. Lemmon Survey
(407211) 2009 VF <sub>8</sub>	2009 11 08	703	CSS	(407263) 2010 BM <sub>55</sub>	2009 08 26	C51	CSS
(407212) 2009 VD <sub>16</sub>	2009 11 08	G96	Mt. Lemmon Survey	(407264) 2010 BM <sub>61</sub>	2007 05 09	C51	Mt. Lemmon Survey
(407213) 2009 VY <sub>18</sub>	2009 11 09	691	Spacewatch	(407265) 2010 CN <sub>35</sub>	2007 03 14	691	Mt. Lemmon Survey
(407214) 2009 VV <sub>39</sub>	2009 11 11	691	Spacewatch	(407266) 2010 CB <sub>43</sub>	2010 02 09	691	Spacewatch
(407215) 2009 VV <sub>42</sub>	2009 10 21	G96	CSS	(407267) 2010 CW <sub>54</sub>	2010 02 14	C51	WISE
(407216) 2009 VP <sub>63</sub>	2009 11 08	691	Spacewatch	(407268) 2010 CX <sub>65</sub>	2010 02 09	703	CSS
(407217) 2009 VO <sub>73</sub>	2006 03 25	G96	Spacewatch	(407269) 2010 CO <sub>145</sub>	2003 12 18	703	LINEAR
(407218) 2009 VA <sub>74</sub>	2009 11 11	G96	Mt. Lemmon Survey	(407270) 2010 CK <sub>147</sub>	2010 02 13	703	CSS
(407219) 2009 VW <sub>74</sub>	2009 11 11	G96	Mt. Lemmon Survey	(407271) 2010 CZ <sub>237</sub>	2009 09 29	C51	Mt. Lemmon Survey
(407220) 2009 VM <sub>78</sub>	2009 11 09	703	CSS	(407272) 2010 DQ <sub>25</sub>	2010 02 20	C51	WISE
(407221) 2009 VQ <sub>85</sub>	2009 11 10	691	Spacewatch	(407273) 2010 DU <sub>73</sub>	2010 02 28	C51	WISE
(407222) 2009 VU <sub>87</sub>	2005 01 15	691	Spacewatch	(407274) 2010 EC <sub>80</sub>	2010 03 12	G96	Mt. Lemmon Survey
(407223) 2009 VY <sub>92</sub>	2009 11 15	703	CSS	(407275) 2010 FS <sub>5</sub>	2010 03 17	691	Spacewatch
(407224) 2009 VB <sub>93</sub>	2009 11 08	703	CSS	(407276) 2010 FH <sub>14</sub>	2010 03 17	691	Spacewatch
(407225) 2009 VZ <sub>95</sub>	2009 10 22	691	Mt. Lemmon Survey	(407277) 2010 FB <sub>86</sub>	2010 03 25	G96	Mt. Lemmon Survey
(407226) 2009 VQ <sub>106</sub>	2009 11 09	703	CSS	(407278) 2010 FM <sub>93</sub>	2007 05 26	G96	Mt. Lemmon Survey
(407227) 2009 WH <sub>9</sub>	2005 01 18	704	Spacewatch	(407279) 2010 GR <sub>100</sub>	2010 03 21	691	Spacewatch
(407228) 2009 WY <sub>10</sub>	2009 11 20	H10	Chestnov, D., Novichonok, A.	(407280) 2010 GC <sub>113</sub>	2010 03 19	691	Spacewatch
(407229) 2009 WS <sub>19</sub>	2009 11 17	G96	Mt. Lemmon Survey	(407281) 2010 GA <sub>117</sub>	2010 02 18	G96	Mt. Lemmon Survey
(407230) 2009 WZ <sub>24</sub>	2009 11 21	H06	Lowe, A.	(407282) 2010 GB <sub>117</sub>	2010 03 16	G96	Spacewatch
(407231) 2009 WA <sub>25</sub>	2009 11 21	H10	Chestnov, D., Novichonok, A.	(407283) 2010 GX <sub>120</sub>	2004 10 07	G96	Spacewatch
(407232) 2009 WL <sub>35</sub>	2009 11 17	691	Spacewatch	(407284) 2010 GG <sub>124</sub>	2010 04 04	691	Spacewatch
(407233) 2009 WU <sub>43</sub>	2009 11 17	G96	Mt. Lemmon Survey	(407285) 2010 GO <sub>125</sub>	2010 03 13	691	Mt. Lemmon Survey
(407234) 2009 WM <sub>51</sub>	2009 11 09	G96	Spacewatch	(407286) 2010 GW <sub>140</sub>	2007 10 20	691	Spacewatch
(407235) 2009 WO <sub>53</sub>	2009 11 16	704	LINEAR	(407287) 2010 GB <sub>157</sub>	2010 04 09	691	Spacewatch
(407236) 2009 WR <sub>69</sub>	2009 11 18	691	Spacewatch	(407288) 2010 GS <sub>158</sub>	2010 04 15	691	Spacewatch
(407237) 2009 WW <sub>81</sub>	2009 11 18	J75	OAM	(407289) 2010 HV <sub>63</sub>	2010 04 26	C51	WISE
(407238) 2009 WY <sub>84</sub>	2003 09 28	691	Spacewatch	(407290) 2010 HH <sub>71</sub>	2010 04 27	C51	WISE
(407239) 2009 WZ <sub>95</sub>	2009 11 20	G96	Mt. Lemmon Survey	(407291) 2010 HE <sub>104</sub>	2010 04 09	691	Spacewatch
(407240) 2009 WP <sub>98</sub>	2009 11 21	691	Spacewatch	(407292) 2010 JY <sub>28</sub>	2010 05 02	691	Spacewatch
(407241) 2009 WO <sub>99</sub>	2009 10 18	691	Mt. Lemmon Survey	(407293) 2010 JH <sub>38</sub>	2007 09 11	E12	Spacewatch
(407242) 2009 WD <sub>100</sub>	2009 11 21	691	Spacewatch	(407294) 2010 JT <sub>45</sub>	2007 06 23	691	Spacewatch
(407243) 2009 WQ <sub>100</sub>	2009 11 21	114	Kryachko, T. V.	(407295) 2010 JY <sub>108</sub>	2010 05 12	C51	WISE
(407244) 2009 WN <sub>104</sub>	2009 11 20	J75	OAM	(407296) 2010 JT <sub>111</sub>	2010 03 13	G96	Mt. Lemmon Survey
(407245) 2009 WL <sub>157</sub>	2009 11 20	G96	Mt. Lemmon Survey	(407297) 2010 JT <sub>150</sub>	2010 05 11	691	Spacewatch
(407246) 2009 WK <sub>164</sub>	2009 11 21	691	Spacewatch	(407298) 2010 JF <sub>152</sub>	2010 05 06	G96	Mt. Lemmon Survey
(407247) 2009 WE <sub>168</sub>	2009 11 09	691	Mt. Lemmon Survey	(407299) 2010 KB <sub>88</sub>	2006 07 29	C51	Siding Spring Survey
(407248) 2009 WB <sub>185</sub>	2009 11 24	J75	OAM	(407300) 2010 LL <sub>53</sub>	2010 06 09	C51	WISE
(407249) 2009 WG <sub>187</sub>	2003 09 16	G96	Spacewatch	(407301) 2010 LE <sub>62</sub>	2006 04 25	691	Mt. Lemmon Survey
(407250) 2009 WK <sub>200</sub>	2005 01 19	291	Spacewatch	(407302) 2010 LE <sub>67</sub>	2006 01 23	691	Spacewatch
(407251) 2009 WD <sub>217</sub>	2009 10 23	703	Spacewatch	(407303) 2010 LA <sub>90</sub>	2010 06 12	C51	WISE
(407252) 2009 WA <sub>221</sub>	2009 11 16	G96	Mt. Lemmon Survey	(407304) 2010 LM <sub>127</sub>	2010 06 15	C51	WISE
(407253) 2009 WK <sub>234</sub>	2009 09 14	G96	Spacewatch	(407305) 2010 LO <sub>127</sub>	2010 06 15	C51	WISE
(407254) 2009 WC <sub>261</sub>	2009 11 16	704	LINEAR	(407306) 2010 MJ <sub>7</sub>	2010 06 16	C51	WISE
(407255) 2010 AB <sub>57</sub>	2006 11 01	G96	CSS	(407307) 2010 MT <sub>72</sub>	2006 10 28	C51	Mt. Lemmon Survey
(407256) 2010 AG <sub>72</sub>	2010 01 13	G96	Mt. Lemmon Survey	(407308) 2010 MA <sub>107</sub>	2010 06 30	C51	WISE
(407257) 2010 AX <sub>104</sub>	2009 09 29	C51	Mt. Lemmon Survey	(407309) 2010 NS <sub>14</sub>	2003 01 10	C51	LINEAR
(407258) 2010 AU <sub>117</sub>	2009 10 02	C51	Mt. Lemmon Survey	(407310) 2010 NW <sub>23</sub>	2010 07 06	C51	WISE



(407311)	2010 NC <sub>28</sub>	2008 01 15	C51	Mt. Lemmon Survey
(407312)	2010 NR <sub>53</sub>	2010 07 10	C51	WISE
(407313)	2010 NG <sub>58</sub>	2010 07 10	C51	WISE
(407314)	2010 NB <sub>87</sub>	2006 10 02	C51	Mt. Lemmon Survey
(407315)	2010 NC <sub>115</sub>	2010 07 14	C51	WISE
(407316)	2010 OJ <sub>3</sub>	2010 07 16	C51	WISE
(407317)	2010 OJ <sub>24</sub>	2010 07 19	C51	WISE
(407318)	2010 ON <sub>66</sub>	2006 12 15	C51	Mt. Lemmon Survey
(407319)	2010 OR <sub>76</sub>	2010 07 25	C51	WISE
(407320)	2010 OL <sub>90</sub>	2005 08 29	C51	Spacewatch
(407321)	2010 OK <sub>91</sub>	2003 01 05	C51	LINEAR
(407322)	2010 OM <sub>91</sub>	2005 08 28	C51	Spacewatch
(407323)	2010 OM <sub>98</sub>	2010 07 28	C51	WISE
(407324)	2010 OB <sub>101</sub>	2010 07 18	C51	WISE
(407325)	2010 OS <sub>121</sub>	2010 07 31	C51	WISE
(407326)	2010 PQ <sub>54</sub>	2010 08 08	C51	WISE
(407327)	2010 PT <sub>55</sub>	2010 08 08	C51	WISE
(407328)	2010 PL <sub>57</sub>	2010 08 06	J75	OAM
(407329)	2010 PZ <sub>60</sub>	2010 08 10	691	Spacewatch
(407330)	2010 PS <sub>63</sub>	2010 08 03	D29	PMO NEO Survey Program
(407331)	2010 PR <sub>76</sub>	2010 08 10	691	Spacewatch
(407332)	2010 PP <sub>79</sub>	2010 08 12	691	Spacewatch
(407333)	2010 PW <sub>79</sub>	2010 08 10	691	Spacewatch
(407334)	2010 QF	2010 08 16	J75	OAM
(407335)	2010 QZ	2006 09 16	J75	CSS
(407336)	2010 RC <sub>15</sub>	2010 09 02	G96	Mt. Lemmon Survey
(407337)	2010 RN <sub>26</sub>	2008 01 01	G96	Spacewatch
(407338)	2010 RQ <sub>30</sub>	2010 09 03	G96	Mt. Lemmon Survey
(407339)	2010 RV <sub>39</sub>	2006 09 25	704	CSS
(407340)	2010 RP <sub>47</sub>	2010 09 04	691	Spacewatch
(407341)	2010 RW <sub>47</sub>	2010 09 04	691	Spacewatch
(407342)	2010 RN <sub>48</sub>	2010 09 04	691	Spacewatch
(407343)	2010 RB <sub>51</sub>	2010 09 04	691	Spacewatch
(407344)	2010 RX <sub>58</sub>	2006 09 17	G96	CSS
(407345)	2010 RS <sub>62</sub>	2006 10 03	J75	CSS
(407346)	2010 RC <sub>64</sub>	2006 11 17	152	Spacewatch
(407347)	2010 RG <sub>78</sub>	2010 09 11	691	Spacewatch
(407348)	2010 RZ <sub>81</sub>	2008 04 03	691	Mt. Lemmon Survey
(407349)	2010 RJ <sub>90</sub>	2010 09 11	198	Apitzsch, R.
(407350)	2010 RE <sub>99</sub>	2010 08 06	691	Spacewatch
(407351)	2010 RR <sub>99</sub>	2010 09 10	691	Spacewatch
(407352)	2010 RB <sub>100</sub>	2006 10 13	691	Spacewatch
(407353)	2010 RL <sub>100</sub>	2008 02 26	691	Mt. Lemmon Survey
(407354)	2010 RK <sub>101</sub>	2010 09 10	691	Spacewatch
(407355)	2010 RJ <sub>102</sub>	2010 09 10	691	Spacewatch
(407356)	2010 RP <sub>103</sub>	2010 09 10	691	Spacewatch
(407357)	2010 RL <sub>104</sub>	2003 02 03	691	Spacewatch
(407358)	2010 RS <sub>104</sub>	2010 09 10	691	Spacewatch
(407359)	2010 RW <sub>104</sub>	2010 09 10	691	Spacewatch
(407360)	2010 RS <sub>105</sub>	2009 05 27	691	Mt. Lemmon Survey
(407361)	2010 RN <sub>106</sub>	2010 09 10	691	Spacewatch
(407362)	2010 RJ <sub>107</sub>	2010 09 10	691	Spacewatch

(407363)	2010 RQ <sub>110</sub>	2006 09 28	691	Spacewatch
(407364)	2010 RW <sub>111</sub>	2006 09 28	691	Mt. Lemmon Survey
(407365)	2010 RV <sub>117</sub>	2007 02 09	691	Spacewatch
(407366)	2010 RO <sub>118</sub>	2010 09 11	691	Spacewatch
(407367)	2010 RH <sub>126</sub>	2008 02 07	691	Mt. Lemmon Survey
(407368)	2010 RS <sub>129</sub>	2005 03 10	J75	Mt. Lemmon Survey
(407369)	2010 RU <sub>129</sub>	2002 10 06	J75	LINEAR
(407370)	2010 RM <sub>135</sub>	2010 09 10	691	Spacewatch
(407371)	2010 RK <sub>136</sub>	2008 03 13	691	Spacewatch
(407372)	2010 RS <sub>139</sub>	2006 09 27	703	Mt. Lemmon Survey
(407373)	2010 RR <sub>146</sub>	2010 09 04	691	Spacewatch
(407374)	2010 RN <sub>147</sub>	2010 09 14	691	Spacewatch
(407375)	2010 RL <sub>149</sub>	2010 06 16	691	WISE
(407376)	2010 RQ <sub>149</sub>	2010 09 15	691	Spacewatch
(407377)	2010 RR <sub>150</sub>	2006 09 16	691	Spacewatch
(407378)	2010 RZ <sub>151</sub>	2006 10 02	691	Mt. Lemmon Survey
(407379)	2010 RF <sub>165</sub>	2009 03 01	691	Mt. Lemmon Survey
(407380)	2010 RM <sub>173</sub>	2010 09 05	G96	Mt. Lemmon Survey
(407381)	2010 RY <sub>174</sub>	2010 09 09	691	Spacewatch
(407382)	2010 RZ <sub>177</sub>	2010 09 11	691	Spacewatch
(407383)	2010 RM <sub>179</sub>	2006 09 17	J04	Spacewatch
(407384)	2010 RD <sub>180</sub>	2010 09 04	691	Spacewatch
(407385)	2010 RX <sub>180</sub>	2010 06 15	703	Mt. Lemmon Survey
(407386)	2010 RY <sub>180</sub>	2010 09 11	G96	Mt. Lemmon Survey
(407387)	2010 SR <sub>13</sub>	2006 09 17	691	Spacewatch
(407388)	2010 SY <sub>13</sub>	2010 09 27	691	Spacewatch
(407389)	2010 SK <sub>27</sub>	2006 10 19	691	Mt. Lemmon Survey
(407390)	2010 SC <sub>29</sub>	2008 02 28	G96	Mt. Lemmon Survey
(407391)	2010 SS <sub>32</sub>	2005 05 11	G96	Mt. Lemmon Survey
(407392)	2010 SD <sub>33</sub>	2006 10 03	G96	Mt. Lemmon Survey
(407393)	2010 SC <sub>34</sub>	2008 02 08	703	Spacewatch
(407394)	2010 SO <sub>35</sub>	2010 09 14	J75	Spacewatch
(407395)	2010 TG <sub>14</sub>	2006 09 30	691	Mt. Lemmon Survey
(407396)	2010 TN <sub>15</sub>	2006 11 14	691	Spacewatch
(407397)	2010 TH <sub>18</sub>	2006 10 03	461	Mt. Lemmon Survey
(407398)	2010 TL <sub>18</sub>	2006 10 02	461	Mt. Lemmon Survey
(407399)	2010 TC <sub>20</sub>	2006 08 29	691	Spacewatch
(407400)	2010 TK <sub>27</sub>	2006 11 11	691	Mt. Lemmon Survey
(407401)	2010 TT <sub>28</sub>	2006 09 30	691	Mt. Lemmon Survey
(407402)	2010 TZ <sub>30</sub>	2010 09 14	691	Spacewatch
(407403)	2010 TA <sub>32</sub>	2010 10 02	691	Spacewatch
(407404)	2010 TQ <sub>32</sub>	2006 11 15	691	Spacewatch
(407405)	2010 TV <sub>40</sub>	2008 04 06	691	Mt. Lemmon Survey
(407406)	2010 TV <sub>44</sub>	2010 10 03	691	Spacewatch
(407407)	2010 TZ <sub>65</sub>	2008 03 02	691	Spacewatch
(407408)	2010 TY <sub>77</sub>	2010 09 17	691	Spacewatch
(407409)	2010 TQ <sub>80</sub>	2009 05 15	691	Spacewatch
(407410)	2010 TZ <sub>81</sub>	2006 11 18	621	Mt. Lemmon Survey
(407411)	2010 TR <sub>82</sub>	2006 10 23	691	Spacewatch
(407412)	2010 TR <sub>89</sub>	2008 03 13	G96	Spacewatch
(407413)	2010 TM <sub>91</sub>	2010 09 17	G96	Spacewatch
(407414)	2010 TF <sub>93</sub>	2006 10 19	691	Spacewatch



(407415) 2010 TK <sub>94</sub>	2006 09 18	G96	Spacewatch	(407467) 2010 UN <sub>72</sub>	2006 11 18	691	Spacewatch
(407416) 2010 TO <sub>94</sub>	2008 03 28	691	Mt. Lemmon Survey	(407468) 2010 UK <sub>76</sub>	2010 10 30	691	Spacewatch
(407417) 2010 TZ <sub>94</sub>	2006 10 27	G96	Mt. Lemmon Survey	(407469) 2010 UJ <sub>79</sub>	2008 03 10	G96	Spacewatch
(407418) 2010 TM <sub>97</sub>	2006 10 20	G96	Mt. Lemmon Survey	(407470) 2010 UG <sub>80</sub>	2010 10 30	G96	Mt. Lemmon Survey
(407419) 2010 TA <sub>99</sub>	2006 10 02	691	Mt. Lemmon Survey	(407471) 2010 UX <sub>81</sub>	2005 11 01	G96	Mt. Lemmon Survey
(407420) 2010 TT <sub>99</sub>	2010 10 01	691	Mt. Lemmon Survey	(407472) 2010 UX <sub>84</sub>	2006 11 25	691	Mt. Lemmon Survey
(407421) 2010 TA <sub>100</sub>	2010 09 04	691	Spacewatch	(407473) 2010 UG <sub>93</sub>	2005 10 08	G96	CSS
(407422) 2010 TB <sub>100</sub>	2010 09 16	691	Spacewatch	(407474) 2010 UP <sub>93</sub>	2010 10 13	G96	Mt. Lemmon Survey
(407423) 2010 TJ <sub>100</sub>	2010 09 16	691	Spacewatch	(407475) 2010 UQ <sub>95</sub>	2001 09 21	703	LINEAR
(407424) 2010 TF <sub>103</sub>	2006 10 17	G96	Mt. Lemmon Survey	(407476) 2010 UV <sub>95</sub>	2006 11 20	703	Spacewatch
(407425) 2010 TX <sub>108</sub>	2004 03 17	G96	Spacewatch	(407477) 2010 UZ <sub>95</sub>	2006 11 15	703	CSS
(407426) 2010 TM <sub>115</sub>	2004 04 13	691	Spacewatch	(407478) 2010 UG <sub>100</sub>	2010 10 30	G96	Mt. Lemmon Survey
(407427) 2010 TV <sub>126</sub>	2006 11 14	691	Spacewatch	(407479) 2010 UO <sub>100</sub>	2010 10 13	G96	Mt. Lemmon Survey
(407428) 2010 TY <sub>126</sub>	2008 03 11	G96	Spacewatch	(407480) 2010 UW <sub>101</sub>	2006 11 17	G96	Mt. Lemmon Survey
(407429) 2010 TS <sub>136</sub>	2006 09 30	G96	Mt. Lemmon Survey	(407481) 2010 UU <sub>102</sub>	2001 12 07	568	Spacewatch
(407430) 2010 TR <sub>140</sub>	2008 03 10	G96	Spacewatch	(407482) 2010 UU <sub>104</sub>	1995 09 19	568	Spacewatch
(407431) 2010 TP <sub>141</sub>	2008 02 07	G96	Spacewatch	(407483) 2010 UM <sub>106</sub>	2010 10 30	G96	Mt. Lemmon Survey
(407432) 2010 TG <sub>143</sub>	2010 10 11	G96	Mt. Lemmon Survey	(407484) 2010 VL <sub>12</sub>	2010 09 03	691	Mt. Lemmon Survey
(407433) 2010 TM <sub>143</sub>	2010 10 11	G96	Mt. Lemmon Survey	(407485) 2010 VB <sub>15</sub>	1998 01 22	300	Spacewatch
(407434) 2010 TG <sub>162</sub>	2006 10 30	703	CSS	(407486) 2010 VF <sub>19</sub>	2006 11 20	291	Spacewatch
(407435) 2010 TO <sub>168</sub>	2006 08 29	704	CSS	(407487) 2010 VK <sub>21</sub>	2001 10 20	A14	LINEAR
(407436) 2010 TU <sub>168</sub>	2010 08 09	704	Spacewatch	(407488) 2010 VG <sub>34</sub>	2001 11 20	J75	LINEAR
(407437) 2010 TG <sub>170</sub>	2010 10 08	G96	CSS	(407489) 2010 VN <sub>48</sub>	2006 10 23	691	Mt. Lemmon Survey
(407438) 2010 TO <sub>171</sub>	2006 12 21	703	Spacewatch	(407490) 2010 VN <sub>52</sub>	2010 09 11	G96	Mt. Lemmon Survey
(407439) 2010 TN <sub>174</sub>	2006 10 23	703	Spacewatch	(407491) 2010 VB <sub>55</sub>	2005 10 01	G96	Spacewatch
(407440) 2010 TB <sub>179</sub>	2010 09 10	691	Spacewatch	(407492) 2010 VQ <sub>58</sub>	2010 10 13	G96	Mt. Lemmon Survey
(407441) 2010 TQ <sub>181</sub>	2008 03 11	G96	Mt. Lemmon Survey	(407493) 2010 VZ <sub>64</sub>	2010 11 07	691	Spacewatch
(407442) 2010 TH <sub>182</sub>	2010 10 13	G96	Mt. Lemmon Survey	(407494) 2010 VR <sub>73</sub>	2006 11 23	703	Spacewatch
(407443) 2010 TT <sub>186</sub>	2008 04 03	I41	Mt. Lemmon Survey	(407495) 2010 VJ <sub>76</sub>	2001 11 20	G96	LINEAR
(407444) 2010 TS <sub>187</sub>	2008 03 06	I41	Mt. Lemmon Survey	(407496) 2010 VE <sub>77</sub>	2006 11 27	G96	Mt. Lemmon Survey
(407445) 2010 UR	2010 09 18	J04	Mt. Lemmon Survey	(407497) 2010 VV <sub>83</sub>	2005 09 13	691	Spacewatch
(407446) 2010 UY	2005 10 01	941	Mt. Lemmon Survey	(407498) 2010 VC <sub>84</sub>	2010 10 28	691	Spacewatch
(407447) 2010 UP <sub>1</sub>	2006 12 13	G96	Spacewatch	(407499) 2010 VM <sub>84</sub>	2005 09 26	691	Spacewatch
(407448) 2010 UE <sub>10</sub>	2010 10 13	691	CSS	(407500) 2010 VZ <sub>85</sub>	2010 09 04	691	Spacewatch
(407449) 2010 UO <sub>19</sub>	2005 07 10	G96	Spacewatch	(407501) 2010 VF <sub>89</sub>	2010 11 06	691	Spacewatch
(407450) 2010 US <sub>21</sub>	2008 03 06	703	Mt. Lemmon Survey	(407502) 2010 VD <sub>90</sub>	2007 03 14	691	Spacewatch
(407451) 2010 UQ <sub>26</sub>	2010 10 28	G96	Mt. Lemmon Survey	(407503) 2010 VP <sub>91</sub>	1997 09 28	691	Spacewatch
(407452) 2010 UW <sub>27</sub>	2005 10 03	G96	CSS	(407504) 2010 VL <sub>95</sub>	2010 11 08	G96	Mt. Lemmon Survey
(407453) 2010 UV <sub>30</sub>	2010 09 16	691	Spacewatch	(407505) 2010 VZ <sub>97</sub>	2001 11 19	703	LINEAR
(407454) 2010 US <sub>35</sub>	2008 03 29	291	Spacewatch	(407506) 2010 VL <sub>98</sub>	2010 11 01	703	Mt. Lemmon Survey
(407455) 2010 UK <sub>37</sub>	2010 10 29	G96	Mt. Lemmon Survey	(407507) 2010 VQ <sub>101</sub>	2010 11 05	691	Spacewatch
(407456) 2010 UV <sub>39</sub>	2006 11 16	461	Spacewatch	(407508) 2010 VJ <sub>103</sub>	2010 11 05	691	Spacewatch
(407457) 2010 UT <sub>43</sub>	2010 10 19	G96	Mt. Lemmon Survey	(407509) 2010 VZ <sub>104</sub>	2005 09 29	G96	Mt. Lemmon Survey
(407458) 2010 UQ <sub>44</sub>	2010 10 13	703	Mt. Lemmon Survey	(407510) 2010 VD <sub>105</sub>	2008 03 12	G96	Mt. Lemmon Survey
(407459) 2010 UO <sub>49</sub>	2008 03 29	G96	Mt. Lemmon Survey	(407511) 2010 VL <sub>114</sub>	2010 10 29	691	Spacewatch
(407460) 2010 UR <sub>50</sub>	2007 01 17	G96	CSS	(407512) 2010 VS <sub>114</sub>	2007 01 27	691	Mt. Lemmon Survey
(407461) 2010 UT <sub>56</sub>	2008 05 01	691	Siding Spring Survey	(407513) 2010 VS <sub>115</sub>	2008 03 29	114	Mt. Lemmon Survey
(407462) 2010 UH <sub>60</sub>	2010 10 29	691	Spacewatch	(407514) 2010 VL <sub>128</sub>	2010 11 02	703	Mt. Lemmon Survey
(407463) 2010 UC <sub>62</sub>	2003 02 26	G96	CINEOS	(407515) 2010 VR <sub>134</sub>	2008 04 11	291	Spacewatch
(407464) 2010 UC <sub>64</sub>	2001 09 19	461	LINEAR	(407516) 2010 VU <sub>134</sub>	1997 10 28	G96	Spacewatch
(407465) 2010 UF <sub>64</sub>	2001 08 27	461	Spacewatch	(407517) 2010 VV <sub>135</sub>	1995 10 21	G96	Spacewatch
(407466) 2010 UB <sub>72</sub>	2005 09 13	G96	Spacewatch	(407518) 2010 VQ <sub>136</sub>	2010 11 10	G96	Mt. Lemmon Survey



(407519) 2010 VZ <sub>140</sub>	2008 04 13	G96	Mt. Lemmon Survey
(407520) 2010 VW <sub>150</sub>	2007 01 10	G96	Spacewatch
(407521) 2010 VC <sub>158</sub>	2008 03 28	568	Mt. Lemmon Survey
(407522) 2010 VS <sub>161</sub>	2008 04 14	691	Spacewatch
(407523) 2010 VU <sub>172</sub>	2010 11 10	G96	Mt. Lemmon Survey
(407524) 2010 VA <sub>174</sub>	2010 10 30	A14	Spacewatch
(407525) 2010 VY <sub>174</sub>	2008 03 30	691	Spacewatch
(407526) 2010 VT <sub>191</sub>	2007 02 16	691	CSS
(407527) 2010 VG <sub>192</sub>	2005 09 01	691	Spacewatch
(407528) 2010 VM <sub>196</sub>	2008 03 01	G96	Spacewatch
(407529) 2010 VL <sub>200</sub>	2007 01 16	G96	CSS
(407530) 2010 VG <sub>201</sub>	2007 01 27	703	Mt. Lemmon Survey
(407531) 2010 VH <sub>203</sub>	2010 10 11	I41	Mt. Lemmon Survey
(407532) 2010 VV <sub>205</sub>	2008 04 05	I41	Mt. Lemmon Survey
(407533) 2010 VP <sub>207</sub>	2008 03 31	I41	Spacewatch
(407534) 2010 VQ <sub>211</sub>	2010 09 11	I41	Mt. Lemmon Survey
(407535) 2010 VQ <sub>217</sub>	2005 10 25	I41	Spacewatch
(407536) 2010 WB <sub>7</sub>	2005 11 29	G96	Spacewatch
(407537) 2010 WO <sub>8</sub>	2010 11 03	G96	Mt. Lemmon Survey
(407538) 2010 WX <sub>13</sub>	2006 11 28	G96	Mt. Lemmon Survey
(407539) 2010 WJ <sub>15</sub>	2005 09 13	G96	Spacewatch
(407540) 2010 WP <sub>21</sub>	2005 09 29	G96	Mt. Lemmon Survey
(407541) 2010 WH <sub>27</sub>	2005 11 25	G96	Spacewatch
(407542) 2010 WV <sub>27</sub>	2010 11 14	G96	Spacewatch
(407543) 2010 WF <sub>30</sub>	2005 10 30	G96	Spacewatch
(407544) 2010 WT <sub>32</sub>	1996 01 12	G96	Spacewatch
(407545) 2010 WL <sub>48</sub>	2010 11 02	G96	Spacewatch
(407546) 2010 WA <sub>50</sub>	2006 12 13	703	CSS
(407547) 2010 WD <sub>52</sub>	2010 11 10	G96	Spacewatch
(407548) 2010 WD <sub>55</sub>	2003 03 27	691	Spacewatch
(407549) 2010 WP <sub>64</sub>	2006 11 19	G96	Spacewatch
(407550) 2010 WK <sub>71</sub>	2008 02 26	703	Mt. Lemmon Survey
(407551) 2010 WW <sub>73</sub>	2004 11 11	691	LONEOS
(407552) 2010 XR <sub>9</sub>	2006 12 27	G96	Mt. Lemmon Survey
(407553) 2010 XD <sub>30</sub>	2006 11 25	G96	Spacewatch
(407554) 2010 XM <sub>30</sub>	2005 11 10	G96	Mt. Lemmon Survey
(407555) 2010 XW <sub>33</sub>	2005 10 25	G96	Spacewatch
(407556) 2010 XJ <sub>36</sub>	2010 11 14	G96	Mt. Lemmon Survey
(407557) 2010 XK <sub>45</sub>	2010 11 10	703	Mt. Lemmon Survey
(407558) 2010 XE <sub>62</sub>	2005 12 22	691	CSS
(407559) 2010 XA <sub>65</sub>	2010 11 06	G96	Spacewatch
(407560) 2010 XN <sub>65</sub>	2008 02 28	D29	Spacewatch
(407561) 2010 XE <sub>66</sub>	2006 01 23	G96	Spacewatch
(407562) 2010 XT <sub>75</sub>	2005 07 04	691	Mt. Lemmon Survey
(407563) 2010 XA <sub>78</sub>	2006 12 14	A14	Spacewatch
(407564) 2010 XG <sub>79</sub>	2001 12 17	G96	Spacewatch
(407565) 2010 XG <sub>86</sub>	2005 12 07	G96	Spacewatch
(407566) 2010 XH <sub>86</sub>	2010 11 13	G96	Spacewatch
(407567) 2010 XJ <sub>86</sub>	2006 09 28	G96	Mt. Lemmon Survey
(407568) 2010 YR <sub>2</sub>	2007 04 26	461	Spacewatch
(407569) 2010 YA <sub>3</sub>	2001 12 09	704	LINEAR
(407570) 2010 YU <sub>3</sub>	2009 10 27	703	Mt. Lemmon Survey

(407571) 2011 AY <sub>4</sub>	2010 11 07	G96	Mt. Lemmon Survey
(407572) 2011 AY <sub>6</sub>	2009 09 22	G96	CSS
(407573) 2011 AE <sub>8</sub>	1994 12 31	G96	Spacewatch
(407574) 2011 AX <sub>8</sub>	2010 12 14	G96	Mt. Lemmon Survey
(407575) 2011 AS <sub>9</sub>	2010 11 15	G96	Mt. Lemmon Survey
(407576) 2011 AH <sub>11</sub>	2007 02 17	703	CSS
(407577) 2011 AT <sub>20</sub>	1998 08 25	G96	ODAS
(407578) 2011 AA <sub>31</sub>	2000 01 26	691	Spacewatch
(407579) 2011 AU <sub>32</sub>	2005 12 30	G96	Mt. Lemmon Survey
(407580) 2011 AZ <sub>33</sub>	2009 10 02	G96	Mt. Lemmon Survey
(407581) 2011 AW <sub>39</sub>	2006 01 27	G96	Spacewatch
(407582) 2011 AQ <sub>44</sub>	2009 09 24	691	Spacewatch
(407583) 2011 AE <sub>46</sub>	2000 01 05	691	Spacewatch
(407584) 2011 AL <sub>47</sub>	2011 01 11	703	CSS
(407585) 2011 AA <sub>48</sub>	2005 12 26	G96	Mt. Lemmon Survey
(407586) 2011 AD <sub>48</sub>	2010 01 21	703	WISE
(407587) 2011 AF <sub>55</sub>	2010 12 06	G96	Mt. Lemmon Survey
(407588) 2011 AE <sub>56</sub>	2009 08 29	691	Spacewatch
(407589) 2011 AG <sub>61</sub>	2007 05 16	691	Mt. Lemmon Survey
(407590) 2011 AU <sub>65</sub>	2003 09 19	691	Spacewatch
(407591) 2011 AF <sub>68</sub>	2003 09 20	691	Spacewatch
(407592) 2011 AK <sub>72</sub>	2001 12 11	703	LINEAR
(407593) 2011 AH <sub>75</sub>	2010 11 03	691	Mt. Lemmon Survey
(407594) 2011 AT <sub>75</sub>	2003 09 28	J04	LONEOS
(407595) 2011 AR <sub>76</sub>	2010 11 11	691	Mt. Lemmon Survey
(407596) 2011 AL <sub>78</sub>	2006 01 23	691	Spacewatch
(407597) 2011 AQ <sub>79</sub>	2006 01 30	I41	Spacewatch
(407598) 2011 BP <sub>9</sub>	2009 10 30	G96	Mt. Lemmon Survey
(407599) 2011 BQ <sub>10</sub>	2011 01 12	G96	Spacewatch
(407600) 2011 BV <sub>27</sub>	2005 03 13	691	Mt. Lemmon Survey
(407601) 2011 BO <sub>32</sub>	2009 09 17	G96	Spacewatch
(407602) 2011 BL <sub>52</sub>	2000 02 27	691	CSS
(407603) 2011 BA <sub>54</sub>	2000 02 07	G96	Spacewatch
(407604) 2011 BS <sub>56</sub>	2009 11 21	H15	Mt. Lemmon Survey
(407605) 2011 BB <sub>60</sub>	2004 11 04	A14	Spacewatch
(407606) 2011 BR <sub>80</sub>	2009 10 16	691	CSS
(407607) 2011 BD <sub>83</sub>	2007 03 11	G96	Spacewatch
(407608) 2011 BB <sub>96</sub>	2000 02 03	G96	Spacewatch
(407609) 2011 BY <sub>100</sub>	2009 10 01	F51	Mt. Lemmon Survey
(407610) 2011 BZ <sub>102</sub>	2009 09 29	G96	Mt. Lemmon Survey
(407611) 2011 BH <sub>115</sub>	2004 12 13	G96	Spacewatch
(407612) 2011 BX <sub>116</sub>	2006 01 26	G96	Mt. Lemmon Survey
(407613) 2011 BC <sub>118</sub>	2006 01 09	G96	Spacewatch
(407614) 2011 BB <sub>120</sub>	2003 09 17	G96	Spacewatch
(407615) 2011 BH <sub>122</sub>	2003 10 21	F51	Spacewatch
(407616) 2011 CP <sub>1</sub>	2010 01 22	A13	WISE
(407617) 2011 CG <sub>4</sub>	2008 07 30	703	Spacewatch
(407618) 2011 CR <sub>7</sub>	2008 08 20	291	Spacewatch
(407619) 2011 CZ <sub>15</sub>	1994 01 08	291	Spacewatch
(407620) 2011 CP <sub>16</sub>	2006 02 25	703	Spacewatch
(407621) 2011 CN <sub>23</sub>	2003 09 19	G96	Spacewatch
(407622) 2011 CD <sub>33</sub>	2004 10 14	G96	Spacewatch



(407623)	2011 CU <sub>47</sub>	2011 01 13	703	Spacewatch	(407675)	2011 UG <sub>27</sub>	2004 11 04	691	Spacewatch
(407624)	2011 CF <sub>49</sub>	2003 09 20	703	Spacewatch	(407676)	2011 UX <sub>27</sub>	2011 10 17	691	Spacewatch
(407625)	2011 CU <sub>70</sub>	2005 01 16	A77	LINEAR	(407677)	2011 UQ <sub>28</sub>	2011 09 30	691	Mt. Lemmon Survey
(407626)	2011 CL <sub>74</sub>	2011 02 12	703	CSS	(407678)	2011 UE <sub>38</sub>	2009 02 19	G96	Spacewatch
(407627)	2011 CO <sub>74</sub>	2004 11 03	G96	Spacewatch	(407679)	2011 UD <sub>42</sub>	2008 11 07	G96	Mt. Lemmon Survey
(407628)	2011 CY <sub>75</sub>	2004 12 10	703	Spacewatch	(407680)	2011 UT <sub>42</sub>	2011 09 30	G96	Spacewatch
(407629)	2011 CA <sub>76</sub>	2009 10 26	703	Mt. Lemmon Survey	(407681)	2011 UC <sub>47</sub>	2011 09 30	691	Mt. Lemmon Survey
(407630)	2011 CF <sub>76</sub>	2005 12 28	H36	Mt. Lemmon Survey	(407682)	2011 UN <sub>49</sub>	1998 11 19	691	Spacewatch
(407631)	2011 CP <sub>83</sub>	2008 09 06	F51	Mt. Lemmon Survey	(407683)	2011 UJ <sub>54</sub>	2010 05 06	G96	Mt. Lemmon Survey
(407632)	2011 CZ <sub>91</sub>	2008 09 07	F51	Mt. Lemmon Survey	(407684)	2011 UG <sub>55</sub>	2009 01 20	691	CSS
(407633)	2011 DF	2008 09 28	291	CSS	(407685)	2011 UW <sub>59</sub>	2006 01 09	A13	Spacewatch
(407634)	2011 DJ <sub>6</sub>	2006 02 27	G96	Spacewatch	(407686)	2011 UE <sub>69</sub>	2011 09 29	G96	Mt. Lemmon Survey
(407635)	2011 DB <sub>9</sub>	2006 02 22	106	Mt. Lemmon Survey	(407687)	2011 UD <sub>83</sub>	2011 10 19	691	Spacewatch
(407636)	2011 DV <sub>24</sub>	1999 12 05	703	CSS	(407688)	2011 UE <sub>84</sub>	2004 12 19	691	Spacewatch
(407637)	2011 DQ <sub>31</sub>	2011 02 25	691	Spacewatch	(407689)	2011 UO <sub>84</sub>	2011 10 19	691	Spacewatch
(407638)	2011 DP <sub>41</sub>	2011 02 25	G96	Mt. Lemmon Survey	(407690)	2011 UK <sub>86</sub>	2011 10 20	G96	Mt. Lemmon Survey
(407639)	2011 DZ <sub>49</sub>	2005 03 02	691	CSS	(407691)	2011 UJ <sub>87</sub>	1995 10 15	691	Spacewatch
(407640)	2011 EM	2009 10 16	J75	CSS	(407692)	2011 UV <sub>91</sub>	2004 11 20	621	Spacewatch
(407641)	2011 EF <sub>16</sub>	2000 04 01	703	Spacewatch	(407693)	2011 UN <sub>96</sub>	2011 10 19	G96	Mt. Lemmon Survey
(407642)	2011 EQ <sub>54</sub>	2009 10 26	D29	Mt. Lemmon Survey	(407694)	2011 UD <sub>100</sub>	2004 12 12	691	Spacewatch
(407643)	2011 EK <sub>63</sub>	2006 04 29	106	Spacewatch	(407695)	2011 UG <sub>102</sub>	2008 12 30	G96	Mt. Lemmon Survey
(407644)	2011 EL <sub>63</sub>	2006 06 01	106	Mt. Lemmon Survey	(407696)	2011 UV <sub>102</sub>	2007 11 03	G96	Mt. Lemmon Survey
(407645)	2011 EF <sub>76</sub>	2003 10 03	703	Spacewatch	(407697)	2011 UC <sub>114</sub>	2007 07 18	691	Mt. Lemmon Survey
(407646)	2011 FB <sub>3</sub>	2003 09 29	703	Spacewatch	(407698)	2011 UA <sub>121</sub>	2001 09 11	G96	LONEOS
(407647)	2011 FM <sub>17</sub>	2006 04 20	704	CSS	(407699)	2011 UL <sub>123</sub>	2011 10 19	G96	Mt. Lemmon Survey
(407648)	2011 FU <sub>47</sub>	2011 03 29	691	Spacewatch	(407700)	2011 UT <sub>123</sub>	2008 12 02	G96	Spacewatch
(407649)	2011 FK <sub>70</sub>	2005 01 16	703	LINEAR	(407701)	2011 UH <sub>128</sub>	2004 12 16	G96	Spacewatch
(407650)	2011 FV <sub>123</sub>	2008 09 09	F51	Mt. Lemmon Survey	(407702)	2011 UV <sub>134</sub>	2004 11 11	691	Spacewatch
(407651)	2011 GJ <sub>56</sub>	2005 03 09	A77	CSS	(407703)	2011 UG <sub>136</sub>	2010 03 05	691	WISE
(407652)	2011 GK <sub>88</sub>	2006 01 27	I41	Mt. Lemmon Survey	(407704)	2011 UW <sub>149</sub>	2009 01 01	691	Mt. Lemmon Survey
(407653)	2011 QF <sub>3</sub>	2011 08 20	F51	Pan-STARRS 1	(407705)	2011 UB <sub>153</sub>	2010 06 15	G96	Mt. Lemmon Survey
(407654)	2011 SP <sub>37</sub>	1992 09 28	691	Spacewatch	(407706)	2011 UG <sub>155</sub>	2008 12 05	F51	Mt. Lemmon Survey
(407655)	2011 SF <sub>100</sub>	2010 04 11	B01	Spacewatch	(407707)	2011 UN <sub>164</sub>	2006 01 23	F51	Spacewatch
(407656)	2011 SL <sub>102</sub>	2009 05 17	704	Spacewatch	(407708)	2011 UO <sub>194</sub>	2004 10 04	691	Spacewatch
(407657)	2011 SM <sub>139</sub>	2008 11 01	F51	Mt. Lemmon Survey	(407709)	2011 UY <sub>196</sub>	2007 09 10	F51	Mt. Lemmon Survey
(407658)	2011 SS <sub>159</sub>	2010 05 06	691	Mt. Lemmon Survey	(407710)	2011 UA <sub>202</sub>	2011 09 27	F51	Mt. Lemmon Survey
(407659)	2011 SU <sub>163</sub>	2011 09 23	691	Spacewatch	(407711)	2011 UF <sub>213</sub>	2011 10 01	G96	Spacewatch
(407660)	2011 SD <sub>166</sub>	2008 12 22	691	Spacewatch	(407712)	2011 UE <sub>251</sub>	2009 02 02	F51	Mt. Lemmon Survey
(407661)	2011 SV <sub>166</sub>	2006 01 07	113	Spacewatch	(407713)	2011 UE <sub>258</sub>	2008 12 21	F51	Mt. Lemmon Survey
(407662)	2011 SR <sub>177</sub>	2011 09 08	G96	Spacewatch	(407714)	2011 UV <sub>265</sub>	2004 10 10	F51	Spacewatch
(407663)	2011 SO <sub>179</sub>	2004 09 16	691	LONEOS	(407715)	2011 UD <sub>268</sub>	2009 04 18	G96	CSS
(407664)	2011 SG <sub>181</sub>	2011 09 26	691	Spacewatch	(407716)	2011 UK <sub>269</sub>	2004 11 04	J04	CSS
(407665)	2011 SN <sub>182</sub>	2001 09 19	691	LINEAR	(407717)	2011 US <sub>269</sub>	2009 01 29	691	Mt. Lemmon Survey
(407666)	2011 SL <sub>183</sub>	2009 03 31	691	Mt. Lemmon Survey	(407718)	2011 UM <sub>271</sub>	1999 01 14	J43	Spacewatch
(407667)	2011 SY <sub>185</sub>	2008 10 29	G96	Spacewatch	(407719)	2011 UX <sub>274</sub>	2005 12 05	G96	Mt. Lemmon Survey
(407668)	2011 SE <sub>189</sub>	2006 02 25	291	Spacewatch	(407720)	2011 UE <sub>294</sub>	2011 10 21	F51	Mt. Lemmon Survey
(407669)	2011 SA <sub>220</sub>	2007 04 14	G96	Mt. Lemmon Survey	(407721)	2011 UN <sub>295</sub>	2000 11 02	691	Spacewatch
(407670)	2011 SC <sub>228</sub>	2008 12 21	G96	Spacewatch	(407722)	2011 UW <sub>297</sub>	2011 10 17	691	Spacewatch
(407671)	2011 SA <sub>253</sub>	2001 10 20	F51	LINEAR	(407723)	2011 UF <sub>302</sub>	2004 09 17	D29	Spacewatch
(407672)	2011 SR <sub>260</sub>	2004 10 06	G96	Spacewatch	(407724)	2011 UQ <sub>306</sub>	2002 03 10	152	Spacewatch
(407673)	2011 SL <sub>274</sub>	2008 11 08	I41	Mt. Lemmon Survey	(407725)	2011 UZ <sub>307</sub>	2008 12 01	703	Mt. Lemmon Survey
(407674)	2011 UV <sub>14</sub>	2001 09 16	691	LINEAR	(407726)	2011 UQ <sub>308</sub>	2011 10 28	G96	Mt. Lemmon Survey



(407727) 2011 UG <sub>319</sub>	2004 12 16	691	Spacewatch	(407779) 2011 WP <sub>147</sub>	2007 09 13	691	Mt. Lemmon Survey
(407728) 2011 UG <sub>320</sub>	2009 02 22	691	Spacewatch	(407780) 2011 WQ <sub>153</sub>	2003 11 18	I41	Spacewatch
(407729) 2011 UH <sub>328</sub>	2011 10 19	691	Spacewatch	(407781) 2011 YU <sub>1</sub>	2005 03 04	A14	Mt. Lemmon Survey
(407730) 2011 UV <sub>337</sub>	2011 09 20	691	Mt. Lemmon Survey	(407782) 2011 YW <sub>2</sub>	2005 03 09	J04	Spacewatch
(407731) 2011 UP <sub>338</sub>	2008 10 20	G96	Spacewatch	(407783) 2011 YM <sub>4</sub>	2007 12 16	C42	Mt. Lemmon Survey
(407732) 2011 UH <sub>343</sub>	2010 04 26	G96	Mt. Lemmon Survey	(407784) 2011 YS <sub>5</sub>	2008 01 13	G96	Mt. Lemmon Survey
(407733) 2011 UO <sub>346</sub>	2008 11 24	G96	Mt. Lemmon Survey	(407785) 2011 YX <sub>5</sub>	2007 11 07	703	CSS
(407734) 2011 US <sub>356</sub>	2009 01 15	691	Spacewatch	(407786) 2011 YD <sub>6</sub>	2006 08 28	C42	Spacewatch
(407735) 2011 UJ <sub>366</sub>	2011 10 22	G96	Mt. Lemmon Survey	(407787) 2011 YQ <sub>7</sub>	2006 09 28	703	CSS
(407736) 2011 UX <sub>369</sub>	2001 09 16	G96	LINEAR	(407788) 2011 YA <sub>9</sub>	2009 03 31	G96	Mt. Lemmon Survey
(407737) 2011 UZ <sub>382</sub>	1997 12 27	F51	Spacewatch	(407789) 2011 YT <sub>17</sub>	2003 11 30	G96	LINEAR
(407738) 2011 UN <sub>398</sub>	2008 10 25	G96	Spacewatch	(407790) 2011 YL <sub>18</sub>	2009 01 17	G96	Spacewatch
(407739) 2011 UV <sub>401</sub>	2000 12 30	691	Spacewatch	(407791) 2011 YT <sub>19</sub>	2003 10 21	G96	Spacewatch
(407740) 2011 UX <sub>401</sub>	2007 03 20	691	Mt. Lemmon Survey	(407792) 2011 YX <sub>19</sub>	2010 10 11	G96	Mt. Lemmon Survey
(407741) 2011 VH <sub>8</sub>	1998 09 02	H36	Spacewatch	(407793) 2011 YF <sub>20</sub>	2003 12 27	G96	LINEAR
(407742) 2011 VH <sub>12</sub>	2011 10 23	691	Spacewatch	(407794) 2011 YH <sub>21</sub>	2007 10 19	B74	Mt. Lemmon Survey
(407743) 2011 VQ <sub>16</sub>	2009 03 03	703	Mt. Lemmon Survey	(407795) 2011 YJ <sub>25</sub>	1999 10 19	691	Spacewatch
(407744) 2011 VS <sub>16</sub>	2007 10 09	703	LINEAR	(407796) 2011 YO <sub>33</sub>	2004 12 10	691	Spacewatch
(407745) 2011 VQ <sub>20</sub>	2009 01 02	G96	Spacewatch	(407797) 2011 YS <sub>35</sub>	2011 11 27	691	Mt. Lemmon Survey
(407746) 2011 VO <sub>21</sub>	2008 10 07	691	Mt. Lemmon Survey	(407798) 2011 YV <sub>46</sub>	2008 02 10	691	Spacewatch
(407747) 2011 WM <sub>1</sub>	2006 05 07	G96	Mt. Lemmon Survey	(407799) 2011 YS <sub>50</sub>	2008 02 10	691	Spacewatch
(407748) 2011 WZ <sub>10</sub>	2009 04 19	G96	Mt. Lemmon Survey	(407800) 2011 YV <sub>51</sub>	2005 04 17	G96	Spacewatch
(407749) 2011 WG <sub>13</sub>	2001 08 19	703	LINEAR	(407801) 2011 YF <sub>54</sub>	2005 01 13	691	Spacewatch
(407750) 2011 WE <sub>17</sub>	2007 11 13	G96	Spacewatch	(407802) 2011 YA <sub>61</sub>	2008 02 10	691	CSS
(407751) 2011 WM <sub>22</sub>	2007 09 15	G96	Spacewatch	(407803) 2011 YJ <sub>67</sub>	2011 12 31	691	Spacewatch
(407752) 2011 WB <sub>27</sub>	2004 12 18	G96	Mt. Lemmon Survey	(407804) 2011 YB <sub>68</sub>	2007 11 12	691	Mt. Lemmon Survey
(407753) 2011 WR <sub>33</sub>	2004 11 04	G96	Spacewatch	(407805) 2011 YY <sub>72</sub>	2007 09 12	691	Mt. Lemmon Survey
(407754) 2011 WQ <sub>35</sub>	2011 11 15	691	Spacewatch	(407806) 2011 YQ <sub>73</sub>	2006 11 17	691	Spacewatch
(407755) 2011 WO <sub>42</sub>	2009 02 20	H15	Spacewatch	(407807) 2011 YP <sub>75</sub>	2004 12 03	691	Spacewatch
(407756) 2011 WM <sub>48</sub>	2007 03 16	G96	CSS	(407808) 2012 AK <sub>3</sub>	2004 01 22	G96	LINEAR
(407757) 2011 WW <sub>54</sub>	2004 12 15	F51	CINEOS	(407809) 2012 AC <sub>4</sub>	2003 09 28	G96	LONEOS
(407758) 2011 WE <sub>57</sub>	2006 04 26	F51	Spacewatch	(407810) 2012 AN <sub>4</sub>	2005 06 03	G96	Spacewatch
(407759) 2011 WZ <sub>60</sub>	2009 01 31	F51	Spacewatch	(407811) 2012 AZ <sub>5</sub>	2007 12 13	G96	LINEAR
(407760) 2011 WH <sub>63</sub>	2009 02 01	F51	Spacewatch	(407812) 2012 AP <sub>6</sub>	2004 02 22	G96	Spacewatch
(407761) 2011 WE <sub>68</sub>	2008 12 30	G98	Spacewatch	(407813) 2012 AE <sub>7</sub>	2007 10 19	G96	Mt. Lemmon Survey
(407762) 2011 WL <sub>70</sub>	2009 02 28	G96	Spacewatch	(407814) 2012 AP <sub>8</sub>	2007 11 02	691	CSS
(407763) 2011 WE <sub>76</sub>	2010 05 11	703	Mt. Lemmon Survey	(407815) 2012 AY <sub>8</sub>	2006 11 25	691	Mt. Lemmon Survey
(407764) 2011 WM <sub>76</sub>	2007 11 09	G96	Spacewatch	(407816) 2012 AR <sub>9</sub>	2007 02 21	691	Mt. Lemmon Survey
(407765) 2011 WK <sub>79</sub>	1996 12 04	F51	Spacewatch	(407817) 2012 AW <sub>13</sub>	2012 01 14	691	Spacewatch
(407766) 2011 WB <sub>82</sub>	2007 11 01	F51	Mt. Lemmon Survey	(407818) 2012 AG <sub>14</sub>	2006 10 03	691	Mt. Lemmon Survey
(407767) 2011 WU <sub>88</sub>	2007 09 09	F51	LONEOS	(407819) 2012 AU <sub>18</sub>	2008 01 12	691	Spacewatch
(407768) 2011 WT <sub>89</sub>	2009 01 31	D29	Mt. Lemmon Survey	(407820) 2012 AR <sub>21</sub>	2004 12 16	703	LONEOS
(407769) 2011 WX <sub>89</sub>	2004 09 07	G96	Spacewatch	(407821) 2012 BS	2003 09 30	A14	Spacewatch
(407770) 2011 WD <sub>93</sub>	2009 03 19	691	Mt. Lemmon Survey	(407822) 2012 BT	2007 11 02	A14	Mt. Lemmon Survey
(407771) 2011 WD <sub>109</sub>	2001 12 18	691	LINEAR	(407823) 2012 BR <sub>4</sub>	2003 11 19	691	LONEOS
(407772) 2011 WS <sub>110</sub>	2003 04 25	G96	Spacewatch	(407824) 2012 BF <sub>5</sub>	2008 01 10	G96	Mt. Lemmon Survey
(407773) 2011 WV <sub>114</sub>	2005 01 07	703	CINEOS	(407825) 2012 BZ <sub>12</sub>	2012 01 19	691	Spacewatch
(407774) 2011 WE <sub>115</sub>	2007 12 19	703	Mt. Lemmon Survey	(407826) 2012 BG <sub>13</sub>	2003 11 24	704	LONEOS
(407775) 2011 WY <sub>116</sub>	2007 09 10	G96	Mt. Lemmon Survey	(407827) 2012 BR <sub>15</sub>	2007 10 19	J43	CSS
(407776) 2011 WK <sub>121</sub>	2005 01 18	461	Spacewatch	(407828) 2012 BX <sub>15</sub>	2010 06 21	J43	WISE
(407777) 2011 WL <sub>128</sub>	2011 11 17	F51	Spacewatch	(407829) 2012 BS <sub>17</sub>	2005 10 25	F51	Spacewatch
(407778) 2011 WA <sub>129</sub>	2007 09 02	F51	Mt. Lemmon Survey	(407830) 2012 BG <sub>18</sub>	2010 10 01	F51	CSS



(407831) 2012 BN <sub>18</sub>	2003 03 26	F51	Spacewatch	(407883) 2012 BQ <sub>104</sub>	2006 08 28	F51	Spacewatch
(407832) 2012 BF <sub>19</sub>	1999 09 07	J75	Spacewatch	(407884) 2012 BL <sub>106</sub>	2007 12 04	F51	CSS
(407833) 2012 BJ <sub>24</sub>	2012 01 19	691	Spacewatch	(407885) 2012 BR <sub>107</sub>	2006 11 20	F51	Spacewatch
(407834) 2012 BL <sub>24</sub>	2001 02 22	691	Spacewatch	(407886) 2012 BF <sub>110</sub>	2001 01 26	691	Spacewatch
(407835) 2012 BT <sub>24</sub>	2009 07 29	J75	Spacewatch	(407887) 2012 BW <sub>110</sub>	2009 08 16	691	Spacewatch
(407836) 2012 BV <sub>24</sub>	2009 06 23	691	Mt. Lemmon Survey	(407888) 2012 BE <sub>111</sub>	1995 10 20	691	Spacewatch
(407837) 2012 BD <sub>25</sub>	2012 01 01	703	Mt. Lemmon Survey	(407889) 2012 BM <sub>111</sub>	2010 10 17	691	Mt. Lemmon Survey
(407838) 2012 BC <sub>26</sub>	2005 07 07	G96	Spacewatch	(407890) 2012 BR <sub>111</sub>	2007 11 08	691	Mt. Lemmon Survey
(407839) 2012 BC <sub>29</sub>	2006 11 24	G96	Mt. Lemmon Survey	(407891) 2012 BA <sub>112</sub>	2007 12 13	691	LINEAR
(407840) 2012 BS <sub>29</sub>	2012 01 01	H36	Mt. Lemmon Survey	(407892) 2012 BM <sub>117</sub>	2003 10 16	G96	Spacewatch
(407841) 2012 BJ <sub>30</sub>	2008 03 10	F51	Siding Spring Survey	(407893) 2012 BH <sub>122</sub>	1999 02 07	691	Spacewatch
(407842) 2012 BL <sub>32</sub>	2004 04 19	G96	LINEAR	(407894) 2012 BW <sub>124</sub>	2009 03 16	691	Spacewatch
(407843) 2012 BU <sub>32</sub>	2008 01 18	703	CSS	(407895) 2012 BP <sub>125</sub>	2006 10 13	691	Spacewatch
(407844) 2012 BF <sub>33</sub>	2010 11 05	G96	Mt. Lemmon Survey	(407896) 2012 BW <sub>125</sub>	2007 03 11	691	Spacewatch
(407845) 2012 BH <sub>35</sub>	2001 12 19	G96	Spacewatch	(407897) 2012 BG <sub>127</sub>	2005 03 11	691	Spacewatch
(407846) 2012 BW <sub>44</sub>	2007 11 19	G96	Mt. Lemmon Survey	(407898) 2012 BZ <sub>128</sub>	2007 11 11	691	Mt. Lemmon Survey
(407847) 2012 BT <sub>52</sub>	2008 02 07	691	Spacewatch	(407899) 2012 BQ <sub>136</sub>	2006 11 20	G96	Spacewatch
(407848) 2012 BZ <sub>52</sub>	2012 01 21	691	Spacewatch	(407900) 2012 BV <sub>136</sub>	2008 01 30	G96	Mt. Lemmon Survey
(407849) 2012 BC <sub>54</sub>	1999 02 12	F51	Spacewatch	(407901) 2012 BN <sub>142</sub>	2008 02 12	F51	Spacewatch
(407850) 2012 BL <sub>54</sub>	2007 12 04	F51	CSS	(407902) 2012 BR <sub>142</sub>	2007 12 04	691	Spacewatch
(407851) 2012 BW <sub>54</sub>	1994 03 05	F51	Spacewatch	(407903) 2012 BO <sub>143</sub>	2006 09 16	F51	Spacewatch
(407852) 2012 BV <sub>55</sub>	2010 11 12	691	Mt. Lemmon Survey	(407904) 2012 BK <sub>144</sub>	2006 09 15	G96	Spacewatch
(407853) 2012 BC <sub>60</sub>	2000 10 05	F51	Spacewatch	(407905) 2012 BB <sub>145</sub>	2008 03 08	G96	Mt. Lemmon Survey
(407854) 2012 BF <sub>62</sub>	2010 09 08	703	Spacewatch	(407906) 2012 BG <sub>145</sub>	2010 12 02	G96	Mt. Lemmon Survey
(407855) 2012 BV <sub>64</sub>	2010 06 29	G96	WISE	(407907) 2012 BJ <sub>149</sub>	2005 10 09	691	Spacewatch
(407856) 2012 BS <sub>66</sub>	2008 04 06	G96	Mt. Lemmon Survey	(407908) 2012 BK <sub>149</sub>	2005 08 29	691	Spacewatch
(407857) 2012 BM <sub>68</sub>	2008 04 14	691	Mt. Lemmon Survey	(407909) 2012 BT <sub>150</sub>	2008 03 13	G96	CSS
(407858) 2012 BN <sub>69</sub>	2012 01 21	691	Spacewatch	(407910) 2012 BU <sub>152</sub>	2007 03 11	I41	Spacewatch
(407859) 2012 BJ <sub>70</sub>	2008 02 08	691	Spacewatch	(407911) 2012 CF <sub>6</sub>	2012 01 31	G96	CSS
(407860) 2012 BS <sub>70</sub>	2008 03 27	691	Mt. Lemmon Survey	(407912) 2012 CV <sub>6</sub>	2010 10 13	F51	Mt. Lemmon Survey
(407861) 2012 BG <sub>71</sub>	2012 01 21	691	Spacewatch	(407913) 2012 CC <sub>7</sub>	2006 12 21	F51	Spacewatch
(407862) 2012 BC <sub>72</sub>	2006 09 25	691	Spacewatch	(407914) 2012 CC <sub>8</sub>	2005 12 10	F51	Spacewatch
(407863) 2012 BM <sub>72</sub>	2005 09 14	691	Spacewatch	(407915) 2012 CR <sub>8</sub>	2010 11 02	F51	Mt. Lemmon Survey
(407864) 2012 BR <sub>72</sub>	2008 09 06	703	Mt. Lemmon Survey	(407916) 2012 CA <sub>9</sub>	1992 12 25	F51	Spacewatch
(407865) 2012 BX <sub>72</sub>	2007 03 13	691	Spacewatch	(407917) 2012 CH <sub>10</sub>	1995 03 01	F51	Spacewatch
(407866) 2012 BJ <sub>73</sub>	1999 11 09	F51	LINEAR	(407918) 2012 CU <sub>11</sub>	2008 02 02	F51	Spacewatch
(407867) 2012 BH <sub>81</sub>	2012 01 19	F51	Spacewatch	(407919) 2012 CR <sub>12</sub>	2005 08 30	F51	Spacewatch
(407868) 2012 BG <sub>82</sub>	2005 10 26	F51	Spacewatch	(407920) 2012 CJ <sub>15</sub>	2012 01 25	F51	Spacewatch
(407869) 2012 BS <sub>85</sub>	1999 11 05	F51	Spacewatch	(407921) 2012 CJ <sub>16</sub>	2005 12 30	F51	Spacewatch
(407870) 2012 BQ <sub>86</sub>	2007 03 16	703	CSS	(407922) 2012 CP <sub>18</sub>	2006 11 13	703	Spacewatch
(407871) 2012 BB <sub>90</sub>	2005 12 06	691	Spacewatch	(407923) 2012 CC <sub>19</sub>	2011 11 03	G96	Spacewatch
(407872) 2012 BM <sub>90</sub>	2008 03 27	691	Mt. Lemmon Survey	(407924) 2012 CM <sub>24</sub>	2008 02 27	F51	Mt. Lemmon Survey
(407873) 2012 BM <sub>91</sub>	2005 12 07	G96	Spacewatch	(407925) 2012 CO <sub>24</sub>	2006 09 17	F51	Spacewatch
(407874) 2012 BN <sub>91</sub>	2008 01 15	G96	Spacewatch	(407926) 2012 CT <sub>27</sub>	2010 12 10	G96	Mt. Lemmon Survey
(407875) 2012 BD <sub>92</sub>	2007 11 04	G96	Mt. Lemmon Survey	(407927) 2012 CD <sub>28</sub>	2006 12 13	F51	Mt. Lemmon Survey
(407876) 2012 BL <sub>93</sub>	2010 09 17	F51	Mt. Lemmon Survey	(407928) 2012 CP <sub>29</sub>	2008 03 31	G96	Mt. Lemmon Survey
(407877) 2012 BT <sub>93</sub>	2011 11 17	G96	Spacewatch	(407929) 2012 CP <sub>31</sub>	2006 11 24	G96	Spacewatch
(407878) 2012 BN <sub>100</sub>	2006 11 12	691	Mt. Lemmon Survey	(407930) 2012 CP <sub>32</sub>	2010 09 18	F51	Mt. Lemmon Survey
(407879) 2012 BD <sub>103</sub>	2009 03 31	691	Mt. Lemmon Survey	(407931) 2012 CZ <sub>32</sub>	2005 11 30	F51	Spacewatch
(407880) 2012 BE <sub>103</sub>	2008 03 27	691	Spacewatch	(407932) 2012 CC <sub>34</sub>	2008 02 03	G96	Spacewatch
(407881) 2012 BP <sub>103</sub>	2007 02 22	F51	Siding Spring Survey	(407933) 2012 CV <sub>34</sub>	2012 01 26	G96	Mt. Lemmon Survey
(407882) 2012 BG <sub>104</sub>	1999 11 09	G96	Spacewatch	(407934) 2012 CF <sub>37</sub>	2008 04 14	691	Mt. Lemmon Survey



(407935) 2012 CY <sub>37</sub>	2008 02 03	691	Spacewatch	(407987) 2012 DH <sub>65</sub>	2003 03 26	G96	Spacewatch
(407936) 2012 CV <sub>40</sub>	2011 12 28	F51	Mt. Lemmon Survey	(407988) 2012 DH <sub>70</sub>	2010 11 16	G96	Mt. Lemmon Survey
(407937) 2012 CZ <sub>40</sub>	2001 02 02	F51	Spacewatch	(407989) 2012 DO <sub>70</sub>	2006 11 17	G96	Spacewatch
(407938) 2012 CH <sub>42</sub>	2010 11 14	F51	Mt. Lemmon Survey	(407990) 2012 DW <sub>70</sub>	2007 04 20	G96	Spacewatch
(407939) 2012 CN <sub>42</sub>	2007 02 23	F51	Spacewatch	(407991) 2012 DU <sub>71</sub>	2005 12 02	G96	Spacewatch
(407940) 2012 CZ <sub>44</sub>	2005 12 30	F51	Spacewatch	(407992) 2012 DS <sub>72</sub>	2012 02 25	G96	Mt. Lemmon Survey
(407941) 2012 CA <sub>45</sub>	2008 03 07	F51	Mt. Lemmon Survey	(407993) 2012 DA <sub>75</sub>	2007 02 25	G96	Mt. Lemmon Survey
(407942) 2012 CG <sub>45</sub>	2011 12 27	F51	Mt. Lemmon Survey	(407994) 2012 DZ <sub>76</sub>	2006 01 06	F51	Spacewatch
(407943) 2012 CE <sub>50</sub>	2008 03 04	F51	Mt. Lemmon Survey	(407995) 2012 DX <sub>77</sub>	2006 03 02	106	CSS
(407944) 2012 CJ <sub>51</sub>	2006 09 27	F51	Spacewatch	(407996) 2012 DG <sub>78</sub>	2010 10 10	703	Spacewatch
(407945) 2012 DA	2006 12 01	F51	Mt. Lemmon Survey	(407997) 2012 DS <sub>78</sub>	2010 09 15	J75	Mt. Lemmon Survey
(407946) 2012 DF	2005 09 29	F51	LONEOS	(407998) 2012 DK <sub>80</sub>	2009 08 20	F51	Spacewatch
(407947) 2012 DH	2008 04 01	A14	Mt. Lemmon Survey	(407999) 2012 DP <sub>82</sub>	2006 02 25	F51	Mt. Lemmon Survey
(407948) 2012 DF <sub>5</sub>	2008 02 08	F51	Spacewatch	(408000) 2012 DJ <sub>83</sub>	2003 04 09	691	Spacewatch
(407949) 2012 DJ <sub>5</sub>	2012 01 21	F51	Spacewatch	(408001) 2012 DU <sub>88</sub>	2007 03 15	F51	Mt. Lemmon Survey
(407950) 2012 DM <sub>6</sub>	2003 11 23	703	Spacewatch	(408002) 2012 DT <sub>90</sub>	2009 08 15	F51	Spacewatch
(407951) 2012 DU <sub>6</sub>	2009 08 27	691	Spacewatch	(408003) 2012 DS <sub>92</sub>	2012 01 19	F51	Mt. Lemmon Survey
(407952) 2012 DC <sub>8</sub>	2007 09 20	G96	Spacewatch	(408004) 2012 DX <sub>92</sub>	2007 02 21	F51	Spacewatch
(407953) 2012 DC <sub>9</sub>	2008 03 27	F51	Mt. Lemmon Survey	(408005) 2012 DR <sub>93</sub>	2003 09 30	703	Spacewatch
(407954) 2012 DQ <sub>9</sub>	2007 01 27	F51	Mt. Lemmon Survey	(408006) 2012 DG <sub>94</sub>	2010 07 06	G96	WISE
(407955) 2012 DB <sub>10</sub>	2010 10 14	F51	Mt. Lemmon Survey	(408007) 2012 DH <sub>94</sub>	2008 02 07	G96	Spacewatch
(407956) 2012 DM <sub>12</sub>	2008 02 10	691	Mt. Lemmon Survey	(408008) 2012 DW <sub>95</sub>	2007 01 28	G96	Mt. Lemmon Survey
(407957) 2012 DF <sub>15</sub>	2010 10 28	691	CSS	(408009) 2012 DD <sub>96</sub>	2005 10 07	G96	Spacewatch
(407958) 2012 DP <sub>17</sub>	2007 03 13	691	Spacewatch	(408010) 2012 DQ <sub>97</sub>	2005 10 26	I41	Spacewatch
(407959) 2012 DQ <sub>18</sub>	2012 01 19	691	Spacewatch	(408011) 2012 EK <sub>2</sub>	2009 08 17	G96	Spacewatch
(407960) 2012 DA <sub>20</sub>	2006 01 28	703	CSS	(408012) 2012 EA <sub>3</sub>	1998 10 20	691	Spacewatch
(407961) 2012 DR <sub>21</sub>	2003 03 24	691	Spacewatch	(408013) 2012 EB <sub>4</sub>	2006 11 23	691	Mt. Lemmon Survey
(407962) 2012 DO <sub>22</sub>	2002 04 10	F51	LINEAR	(408014) 2012 ER <sub>4</sub>	2007 04 24	691	Mt. Lemmon Survey
(407963) 2012 DV <sub>23</sub>	2006 12 15	691	Spacewatch	(408015) 2012 ES <sub>5</sub>	2007 04 11	H15	CSS
(407964) 2012 DX <sub>23</sub>	2007 03 26	691	Spacewatch	(408016) 2012 EG <sub>9</sub>	2008 03 31	703	Mt. Lemmon Survey
(407965) 2012 DH <sub>24</sub>	2009 09 30	G96	Mt. Lemmon Survey	(408017) 2012 EG <sub>11</sub>	2008 05 03	691	Spacewatch
(407966) 2012 DO <sub>25</sub>	2008 03 05	691	Mt. Lemmon Survey	(408018) 2012 EW <sub>12</sub>	2006 02 04	G96	Spacewatch
(407967) 2012 DT <sub>29</sub>	2004 03 18	F51	Spacewatch	(408019) 2012 EY <sub>15</sub>	2010 10 10	691	Spacewatch
(407968) 2012 DJ <sub>33</sub>	2012 02 21	691	Spacewatch	(408020) 2012 FK <sub>5</sub>	2005 11 10	F51	Mt. Lemmon Survey
(407969) 2012 DY <sub>35</sub>	2003 10 24	691	LINEAR	(408021) 2012 FB <sub>6</sub>	2010 09 10	F51	Spacewatch
(407970) 2012 DK <sub>37</sub>	2009 09 23	691	Mt. Lemmon Survey	(408022) 2012 FG <sub>8</sub>	2004 09 10	F51	Spacewatch
(407971) 2012 DH <sub>39</sub>	2003 09 18	691	Spacewatch	(408023) 2012 FQ <sub>9</sub>	2009 09 15	F51	Spacewatch
(407972) 2012 DP <sub>40</sub>	2009 09 26	691	Spacewatch	(408024) 2012 FN <sub>10</sub>	2006 01 31	G96	Mt. Lemmon Survey
(407973) 2012 DV <sub>40</sub>	2007 01 17	950	Spacewatch	(408025) 2012 FL <sub>11</sub>	2007 05 13	F51	Mt. Lemmon Survey
(407974) 2012 DO <sub>43</sub>	2006 03 05	G96	Spacewatch	(408026) 2012 FT <sub>14</sub>	2006 01 23	461	Spacewatch
(407975) 2012 DS <sub>43</sub>	2009 08 29	B74	Spacewatch	(408027) 2012 FX <sub>14</sub>	2007 03 16	703	Spacewatch
(407976) 2012 DB <sub>45</sub>	2009 08 15	691	Spacewatch	(408028) 2012 FX <sub>15</sub>	2007 02 26	G96	Mt. Lemmon Survey
(407977) 2012 DV <sub>47</sub>	2005 10 25	A14	Mt. Lemmon Survey	(408029) 2012 FY <sub>32</sub>	2003 09 29	691	Spacewatch
(407978) 2012 DW <sub>47</sub>	2007 03 10	691	Mt. Lemmon Survey	(408030) 2012 FE <sub>37</sub>	2009 08 17	G96	Spacewatch
(407979) 2012 DW <sub>48</sub>	2006 11 16	703	Spacewatch	(408031) 2012 FL <sub>38</sub>	2008 04 06	F51	Spacewatch
(407980) 2012 DT <sub>49</sub>	2009 10 30	691	Mt. Lemmon Survey	(408032) 2012 FM <sub>40</sub>	2007 03 13	691	Mt. Lemmon Survey
(407981) 2012 DT <sub>52</sub>	1995 09 20	691	Spacewatch	(408033) 2012 FO <sub>42</sub>	2006 01 07	H15	Spacewatch
(407982) 2012 DV <sub>53</sub>	2008 09 21	F51	CSS	(408034) 2012 FU <sub>47</sub>	2003 12 19	G96	LINEAR
(407983) 2012 DL <sub>55</sub>	1995 10 18	G96	Spacewatch	(408035) 2012 FC <sub>48</sub>	2003 10 01	G96	Spacewatch
(407984) 2012 DB <sub>60</sub>	2009 08 18	703	Spacewatch	(408036) 2012 FE <sub>49</sub>	2007 01 27	G96	Mt. Lemmon Survey
(407985) 2012 DG <sub>60</sub>	2007 04 25	F51	Mt. Lemmon Survey	(408037) 2012 FF <sub>49</sub>	2005 11 03	G96	Spacewatch
(407986) 2012 DA <sub>65</sub>	2005 12 30	G96	Spacewatch	(408038) 2012 FP <sub>49</sub>	2007 03 14	G96	Mt. Lemmon Survey



(408039) 2012 FJ <sub>51</sub>	2007 03 20	G96	Spacewatch	(408091) 2012 HB <sub>61</sub>	1998 10 17	G96	Spacewatch
(408040) 2012 FX <sub>53</sub>	2007 03 14	G96	Mt. Lemmon Survey	(408092) 2012 HB <sub>69</sub>	2006 03 24	F51	Spacewatch
(408041) 2012 FD <sub>55</sub>	2004 10 23	G96	Spacewatch	(408093) 2012 JQ <sub>3</sub>	2009 09 15	G96	Spacewatch
(408042) 2012 FQ <sub>64</sub>	2004 10 11	F51	Spacewatch	(408094) 2012 JP <sub>31</sub>	1998 11 25	F51	Spacewatch
(408043) 2012 FN <sub>66</sub>	2007 04 19	F51	Mt. Lemmon Survey	(408095) 2012 JV <sub>51</sub>	2008 10 21	G96	Mt. Lemmon Survey
(408044) 2012 FA <sub>67</sub>	2009 08 28	F51	Spacewatch	(408096) 2012 KV <sub>19</sub>	2003 09 22	G96	Spacewatch
(408045) 2012 FQ <sub>67</sub>	2006 02 27	703	CSS	(408097) 2012 TW <sub>19</sub>	2007 10 09	F51	CSS
(408046) 2012 FV <sub>67</sub>	2001 10 24	691	LINEAR	(408098) 2013 AW	2005 05 10	F51	LONEOS
(408047) 2012 FO <sub>70</sub>	2010 11 07	F51	CSS	(408099) 2013 AM <sub>45</sub>	2010 03 17	691	Spacewatch
(408048) 2012 FW <sub>71</sub>	2006 01 23	C85	Spacewatch	(408100) 2013 AX <sub>50</sub>	2008 01 10	703	Mt. Lemmon Survey
(408049) 2012 FO <sub>72</sub>	2001 03 21	703	LONEOS	(408101) 2013 AM <sub>82</sub>	2010 02 17	G96	Spacewatch
(408050) 2012 FD <sub>73</sub>	2006 01 09	G96	Spacewatch	(408102) 2013 AN <sub>89</sub>	2010 05 11	J04	WISE
(408051) 2012 FM <sub>73</sub>	2006 11 13	703	CSS	(408103) 2013 AW <sub>101</sub>	2002 02 07	703	Spacewatch
(408052) 2012 FM <sub>74</sub>	2006 01 04	G96	Mt. Lemmon Survey	(408104) 2013 AV <sub>123</sub>	2008 12 31	J04	Spacewatch
(408053) 2012 FP <sub>75</sub>	2006 01 26	F51	CSS	(408105) 2013 AU <sub>133</sub>	2005 01 19	G96	Spacewatch
(408054) 2012 FW <sub>75</sub>	2007 03 15	703	Mt. Lemmon Survey	(408106) 2013 AC <sub>150</sub>	2007 11 02	W84	Spacewatch
(408055) 2012 FX <sub>75</sub>	2009 09 22	703	Spacewatch	(408107) 2013 BA <sub>13</sub>	2010 11 08	F51	Mt. Lemmon Survey
(408056) 2012 FL <sub>76</sub>	2007 04 23	703	Mt. Lemmon Survey	(408108) 2013 BH <sub>26</sub>	2009 01 30	G96	Mt. Lemmon Survey
(408057) 2012 FV <sub>77</sub>	2004 11 11	H15	Spacewatch	(408109) 2013 BK <sub>60</sub>	2009 01 02	691	Spacewatch
(408058) 2012 FN <sub>81</sub>	2007 03 19	I41	Mt. Lemmon Survey	(408110) 2013 BX <sub>62</sub>	2007 05 11	G96	Mt. Lemmon Survey
(408059) 2012 FA <sub>82</sub>	2006 01 05	I41	Spacewatch	(408111) 2013 BN <sub>77</sub>	2006 01 23	G96	Spacewatch
(408060) 2012 FP <sub>82</sub>	2008 04 27	I41	Mt. Lemmon Survey	(408112) 2013 CL <sub>5</sub>	2010 02 10	G96	WISE
(408061) 2012 FV <sub>82</sub>	2008 02 18	I41	Mt. Lemmon Survey	(408113) 2013 CC <sub>13</sub>	2006 01 31	691	Mt. Lemmon Survey
(408062) 2012 GB <sub>4</sub>	2010 11 13	G96	Spacewatch	(408114) 2013 CA <sub>18</sub>	2007 10 18	691	Mt. Lemmon Survey
(408063) 2012 GZ <sub>7</sub>	2004 11 03	F51	Spacewatch	(408115) 2013 CF <sub>18</sub>	2008 12 07	926	Mt. Lemmon Survey
(408064) 2012 GZ <sub>9</sub>	2003 09 18	F51	Spacewatch	(408116) 2013 CR <sub>19</sub>	2011 09 19	691	Mt. Lemmon Survey
(408065) 2012 GV <sub>13</sub>	2006 02 27	691	Mt. Lemmon Survey	(408117) 2013 CH <sub>22</sub>	2009 11 09	D00	Mt. Lemmon Survey
(408066) 2012 GE <sub>16</sub>	2003 10 03	E12	Spacewatch	(408118) 2013 CD <sub>24</sub>	2006 04 20	691	Spacewatch
(408067) 2012 GK <sub>19</sub>	2009 11 08	F51	Mt. Lemmon Survey	(408119) 2013 CO <sub>24</sub>	2006 01 05	691	Mt. Lemmon Survey
(408068) 2012 GO <sub>23</sub>	2005 10 22	G96	Spacewatch	(408120) 2013 CG <sub>30</sub>	2006 03 25	J43	Spacewatch
(408069) 2012 GA <sub>26</sub>	2007 03 14	F51	Mt. Lemmon Survey	(408121) 2013 CQ <sub>30</sub>	2007 10 16	J43	Mt. Lemmon Survey
(408070) 2012 GF <sub>28</sub>	2011 01 28	F51	Mt. Lemmon Survey	(408122) 2013 CN <sub>31</sub>	2008 12 04	J43	Spacewatch
(408071) 2012 GA <sub>30</sub>	2007 04 22	G96	Mt. Lemmon Survey	(408123) 2013 CS <sub>32</sub>	2005 04 10	703	CSS
(408072) 2012 GY <sub>30</sub>	2003 09 20	F51	CINEOS	(408124) 2013 CR <sub>33</sub>	2006 01 05	691	CSS
(408073) 2012 GA <sub>32</sub>	2006 02 20	F51	Spacewatch	(408125) 2013 CF <sub>36</sub>	2002 01 25	F51	LINEAR
(408074) 2012 GC <sub>36</sub>	1999 03 14	F51	Spacewatch	(408126) 2013 CH <sub>43</sub>	2010 03 17	691	Spacewatch
(408075) 2012 HM <sub>5</sub>	2002 03 13	691	Spacewatch	(408127) 2013 CL <sub>49</sub>	2007 09 10	J43	Spacewatch
(408076) 2012 HR <sub>10</sub>	2006 03 24	G96	Spacewatch	(408128) 2013 CW <sub>54</sub>	2010 07 22	691	WISE
(408077) 2012 HO <sub>12</sub>	2006 03 05	G96	Spacewatch	(408129) 2013 CH <sub>61</sub>	2012 12 08	926	Mt. Lemmon Survey
(408078) 2012 HE <sub>16</sub>	2006 04 29	F51	LONEOS	(408130) 2013 CY <sub>61</sub>	2011 09 23	691	Spacewatch
(408079) 2012 HY <sub>31</sub>	2006 02 24	691	Spacewatch	(408131) 2013 CL <sub>66</sub>	2006 02 01	F51	Spacewatch
(408080) 2012 HM <sub>35</sub>	1999 11 17	F51	Spacewatch	(408132) 2013 CT <sub>66</sub>	2009 03 02	F51	Mt. Lemmon Survey
(408081) 2012 HU <sub>40</sub>	2004 09 09	F51	Spacewatch	(408133) 2013 CM <sub>67</sub>	2005 12 06	F51	Spacewatch
(408082) 2012 HN <sub>41</sub>	1995 03 31	F51	Spacewatch	(408134) 2013 CQ <sub>67</sub>	2006 02 20	F51	Spacewatch
(408083) 2012 HC <sub>46</sub>	2011 01 13	G96	Spacewatch	(408135) 2013 CM <sub>69</sub>	2010 04 04	F51	Spacewatch
(408084) 2012 HD <sub>52</sub>	2001 03 30	F51	Spacewatch	(408136) 2013 CU <sub>70</sub>	2010 02 15	G96	Spacewatch
(408085) 2012 HO <sub>53</sub>	2006 02 27	F51	Spacewatch	(408137) 2013 CF <sub>75</sub>	2008 12 07	926	Mt. Lemmon Survey
(408086) 2012 HO <sub>56</sub>	2006 01 31	F51	CSS	(408138) 2013 CL <sub>75</sub>	2010 09 10	691	Mt. Lemmon Survey
(408087) 2012 HY <sub>56</sub>	2006 03 09	F51	Spacewatch	(408139) 2013 CF <sub>80</sub>	2006 01 23	926	Spacewatch
(408088) 2012 HP <sub>57</sub>	2001 09 22	703	Spacewatch	(408140) 2013 CE <sub>84</sub>	2010 03 18	691	Mt. Lemmon Survey
(408089) 2012 HF <sub>58</sub>	2009 09 20	691	Spacewatch	(408141) 2013 CX <sub>86</sub>	2006 01 23	D29	Spacewatch
(408090) 2012 HA <sub>59</sub>	2007 04 20	G96	Spacewatch	(408142) 2013 CO <sub>92</sub>	2006 10 02	F51	Mt. Lemmon Survey



(408143) 2013 CM <sub>99</sub>	1997 04 29	F51	Spacewatch	(408195) 2013 EM <sub>27</sub>	2008 12 29	G96	Mt. Lemmon Survey
(408144) 2013 CA <sub>103</sub>	2008 12 03	F51	Mt. Lemmon Survey	(408196) 2013 ER <sub>29</sub>	2008 05 28	F51	Spacewatch
(408145) 2013 CM <sub>107</sub>	2010 03 30	F51	WISE	(408197) 2013 EC <sub>31</sub>	2011 09 29	691	Spacewatch
(408146) 2013 CL <sub>109</sub>	1997 04 14	F51	Spacewatch	(408198) 2013 EC <sub>32</sub>	2011 09 29	F51	Mt. Lemmon Survey
(408147) 2013 CM <sub>115</sub>	2013 01 16	J04	Mt. Lemmon Survey	(408199) 2013 ES <sub>32</sub>	2007 11 14	H15	Mt. Lemmon Survey
(408148) 2013 CB <sub>116</sub>	2010 03 19	J04	Mt. Lemmon Survey	(408200) 2013 EJ <sub>33</sub>	2008 11 07	703	Mt. Lemmon Survey
(408149) 2013 CN <sub>122</sub>	2000 02 01	F51	Spacewatch	(408201) 2013 EZ <sub>33</sub>	2011 09 23	926	Spacewatch
(408150) 2013 CU <sub>123</sub>	2009 02 28	J04	Spacewatch	(408202) 2013 EM <sub>34</sub>	2004 08 21	691	CSS
(408151) 2013 CX <sub>123</sub>	2013 01 09	J04	Mt. Lemmon Survey	(408203) 2013 EQ <sub>39</sub>	2005 04 07	F51	Mt. Lemmon Survey
(408152) 2013 CG <sub>124</sub>	2010 04 10	J04	Spacewatch	(408204) 2013 EZ <sub>39</sub>	2008 04 14	G32	Mt. Lemmon Survey
(408153) 2013 CQ <sub>126</sub>	2005 10 07	J43	Mt. Lemmon Survey	(408205) 2013 EM <sub>43</sub>	2002 02 14	F51	Spacewatch
(408154) 2013 CY <sub>126</sub>	2010 02 17	J43	Spacewatch	(408206) 2013 EJ <sub>45</sub>	2005 09 30	F51	Mt. Lemmon Survey
(408155) 2013 CD <sub>127</sub>	2001 09 12	J43	LINEAR	(408207) 2013 EH <sub>49</sub>	2002 01 14	F51	Spacewatch
(408156) 2013 CP <sub>137</sub>	2013 01 09	F51	Mt. Lemmon Survey	(408208) 2013 EM <sub>49</sub>	2010 04 08	F51	Spacewatch
(408157) 2013 CW <sub>137</sub>	2010 04 12	F51	Spacewatch	(408209) 2013 ED <sub>54</sub>	2007 10 08	F51	Spacewatch
(408158) 2013 CU <sub>139</sub>	2009 01 29	691	Mt. Lemmon Survey	(408210) 2013 EW <sub>59</sub>	2008 09 23	F51	Spacewatch
(408159) 2013 CY <sub>150</sub>	2005 12 10	691	Spacewatch	(408211) 2013 EO <sub>62</sub>	2006 03 24	F51	Mt. Lemmon Survey
(408160) 2013 CA <sub>151</sub>	2010 05 29	691	WISE	(408212) 2013 EJ <sub>64</sub>	2004 10 09	F51	Spacewatch
(408161) 2013 CY <sub>158</sub>	2006 04 07	691	Spacewatch	(408213) 2013 EN <sub>66</sub>	2006 04 02	I41	Mt. Lemmon Survey
(408162) 2013 CQ <sub>161</sub>	2003 04 11	F51	Spacewatch	(408214) 2013 ES <sub>66</sub>	2005 05 03	I41	Spacewatch
(408163) 2013 CJ <sub>163</sub>	2007 09 05	F51	CSS	(408215) 2013 EP <sub>68</sub>	2006 04 02	691	Spacewatch
(408164) 2013 CS <sub>163</sub>	2010 05 11	691	Mt. Lemmon Survey	(408216) 2013 EC <sub>71</sub>	2004 09 07	G96	Spacewatch
(408165) 2013 CH <sub>165</sub>	2008 12 29	691	Mt. Lemmon Survey	(408217) 2013 EF <sub>73</sub>	2006 04 02	G96	Spacewatch
(408166) 2013 CQ <sub>168</sub>	2009 04 20	G96	Mt. Lemmon Survey	(408218) 2013 EE <sub>79</sub>	2006 08 29	F51	Spacewatch
(408167) 2013 CT <sub>169</sub>	2001 11 07	J04	LINEAR	(408219) 2013 EP <sub>81</sub>	2006 09 25	F51	Spacewatch
(408168) 2013 CE <sub>174</sub>	2005 06 08	F51	Spacewatch	(408220) 2013 EJ <sub>85</sub>	2010 04 09	F51	Spacewatch
(408169) 2013 CB <sub>177</sub>	2011 11 18	691	Mt. Lemmon Survey	(408221) 2013 EW <sub>86</sub>	2009 04 20	691	Spacewatch
(408170) 2013 CP <sub>181</sub>	2007 10 18	691	Mt. Lemmon Survey	(408222) 2013 EM <sub>87</sub>	2009 03 26	I41	Mt. Lemmon Survey
(408171) 2013 CD <sub>183</sub>	2009 05 01	691	Mt. Lemmon Survey	(408223) 2013 EL <sub>90</sub>	2005 03 03	703	Spacewatch
(408172) 2013 CV <sub>183</sub>	2002 04 10	691	LINEAR	(408224) 2013 EO <sub>90</sub>	2007 10 18	703	Mt. Lemmon Survey
(408173) 2013 CT <sub>191</sub>	2007 11 18	J04	Mt. Lemmon Survey	(408225) 2013 EK <sub>91</sub>	2011 11 01	F51	CSS
(408174) 2013 CC <sub>198</sub>	2005 05 09	F51	Spacewatch	(408226) 2013 EW <sub>91</sub>	2010 09 05	703	Mt. Lemmon Survey
(408175) 2013 CA <sub>199</sub>	2013 01 09	F51	Mt. Lemmon Survey	(408227) 2013 EP <sub>94</sub>	2006 05 03	F51	Mt. Lemmon Survey
(408176) 2013 CM <sub>218</sub>	2002 03 09	F51	Spacewatch	(408228) 2013 ED <sub>95</sub>	2001 09 21	F51	Spacewatch
(408177) 2013 CX <sub>221</sub>	2010 03 16	F51	Mt. Lemmon Survey	(408229) 2013 EM <sub>96</sub>	2008 04 25	F51	Spacewatch
(408178) 2013 DW	2009 09 25	703	CSS	(408230) 2013 EA <sub>97</sub>	2006 02 20	F51	Spacewatch
(408179) 2013 DH <sub>4</sub>	2009 01 03	G96	Spacewatch	(408231) 2013 ES <sub>97</sub>	2006 03 02	F51	Spacewatch
(408180) 2013 DG <sub>7</sub>	2010 07 06	G96	WISE	(408232) 2013 EN <sub>98</sub>	2007 11 05	F51	Mt. Lemmon Survey
(408181) 2013 DR <sub>11</sub>	2008 12 29	703	Mt. Lemmon Survey	(408233) 2013 EK <sub>99</sub>	2006 11 19	F51	Spacewatch
(408182) 2013 EY <sub>2</sub>	2005 04 06	926	CSS	(408234) 2013 EY <sub>100</sub>	2009 02 03	F51	Spacewatch
(408183) 2013 EK <sub>4</sub>	2006 03 05	926	Spacewatch	(408235) 2013 EW <sub>101</sub>	1991 11 03	691	Spacewatch
(408184) 2013 EF <sub>6</sub>	2010 09 05	G96	Mt. Lemmon Survey	(408236) 2013 EU <sub>102</sub>	2009 01 01	G96	Spacewatch
(408185) 2013 EF <sub>10</sub>	2005 09 26	F51	Spacewatch	(408237) 2013 EJ <sub>103</sub>	2006 04 30	711	Spacewatch
(408186) 2013 ED <sub>11</sub>	2008 12 29	F51	Spacewatch	(408238) 2013 EF <sub>104</sub>	1999 10 04	G96	Spacewatch
(408187) 2013 EU <sub>11</sub>	2006 03 23	691	Spacewatch	(408239) 2013 EH <sub>105</sub>	2006 02 20	691	Spacewatch
(408188) 2013 EO <sub>16</sub>	2008 12 21	691	Spacewatch	(408240) 2013 ES <sub>109</sub>	2008 11 19	I41	Spacewatch
(408189) 2013 EG <sub>18</sub>	2004 10 05	G32	Spacewatch	(408241) 2013 EE <sub>111</sub>	2004 04 16	I41	Spacewatch
(408190) 2013 EG <sub>19</sub>	2003 09 16	G96	Spacewatch	(408242) 2013 EF <sub>113</sub>	2005 04 07	G96	Spacewatch
(408191) 2013 EC <sub>24</sub>	2007 11 15	691	CSS	(408243) 2013 EA <sub>116</sub>	2006 03 25	691	Spacewatch
(408192) 2013 EM <sub>24</sub>	2003 05 26	691	Spacewatch	(408244) 2013 EH <sub>117</sub>	2009 03 23	G96	PMO NEO Survey Program
(408193) 2013 EA <sub>25</sub>	2006 08 27	F51	Spacewatch	(408245) 2013 EA <sub>120</sub>	2009 01 20	691	Mt. Lemmon Survey
(408194) 2013 EM <sub>26</sub>	2005 05 04	G96	Spacewatch	(408246) 2013 EL <sub>121</sub>	2008 04 14	G96	Mt. Lemmon Survey



(408247) 2013 EL <sub>123</sub>	2005 05 10	G96	Mt. Lemmon Survey	(408299) 2013 GP <sub>23</sub>	2007 10 30	G96	Mt. Lemmon Survey
(408248) 2013 EC <sub>125</sub>	2007 09 15	691	Mt. Lemmon Survey	(408300) 2013 GH <sub>24</sub>	2007 11 18	703	Spacewatch
(408249) 2013 EC <sub>127</sub>	2006 04 25	703	Mt. Lemmon Survey	(408301) 2013 GK <sub>24</sub>	2011 10 20	691	Spacewatch
(408250) 2013 EY <sub>127</sub>	2006 09 17	926	CSS	(408302) 2013 GA <sub>27</sub>	2005 10 12	I41	Spacewatch
(408251) 2013 EB <sub>128</sub>	2006 09 25	703	Mt. Lemmon Survey	(408303) 2013 GO <sub>27</sub>	2006 02 25	G32	Mt. Lemmon Survey
(408252) 2013 EU <sub>128</sub>	2010 04 09	I41	Spacewatch	(408304) 2013 GP <sub>28</sub>	2006 03 05	G96	Spacewatch
(408253) 2013 EV <sub>128</sub>	2006 03 04	I41	Mt. Lemmon Survey	(408305) 2013 GP <sub>29</sub>	2008 01 19	G96	Mt. Lemmon Survey
(408254) 2013 FA	2001 11 10	703	LINEAR	(408306) 2013 GB <sub>30</sub>	2003 10 22	G96	Spacewatch
(408255) 2013 FT <sub>2</sub>	2009 04 22	I41	Mt. Lemmon Survey	(408307) 2013 GG <sub>31</sub>	2005 03 13	G96	Spacewatch
(408256) 2013 FY <sub>2</sub>	2005 04 30	I41	Spacewatch	(408308) 2013 GF <sub>33</sub>	2013 02 18	G96	Mt. Lemmon Survey
(408257) 2013 FT <sub>6</sub>	2003 12 21	I41	LINEAR	(408309) 2013 GG <sub>33</sub>	2005 06 14	G96	Spacewatch
(408258) 2013 FN <sub>8</sub>	2009 05 15	703	Spacewatch	(408310) 2013 GY <sub>36</sub>	2009 05 04	F51	Mt. Lemmon Survey
(408259) 2013 FZ <sub>8</sub>	2007 10 20	I41	Mt. Lemmon Survey	(408311) 2013 GN <sub>37</sub>	2008 12 30	F51	Spacewatch
(408260) 2013 FN <sub>9</sub>	2006 03 26	G96	Spacewatch	(408312) 2013 GL <sub>38</sub>	2011 10 24	691	Spacewatch
(408261) 2013 FD <sub>10</sub>	2006 04 09	G96	Spacewatch	(408313) 2013 GU <sub>40</sub>	2008 12 01	G96	Mt. Lemmon Survey
(408262) 2013 FL <sub>11</sub>	2004 03 28	G96	Spacewatch	(408314) 2013 GV <sub>40</sub>	2005 03 09	G96	Mt. Lemmon Survey
(408263) 2013 FL <sub>12</sub>	1996 01 13	I41	Spacewatch	(408315) 2013 GL <sub>42</sub>	2011 10 19	G96	Spacewatch
(408264) 2013 FX <sub>15</sub>	1996 04 17	691	Spacewatch	(408316) 2013 GQ <sub>43</sub>	2004 01 15	I41	Spacewatch
(408265) 2013 FA <sub>16</sub>	2010 08 08	G96	Siding Spring Survey	(408317) 2013 GU <sub>43</sub>	2012 01 18	G96	Mt. Lemmon Survey
(408266) 2013 FL <sub>16</sub>	2004 04 17	G96	LINEAR	(408318) 2013 GG <sub>47</sub>	2003 04 05	F51	Spacewatch
(408267) 2013 FA <sub>17</sub>	2004 04 24	691	Spacewatch	(408319) 2013 GC <sub>49</sub>	2002 02 10	G96	LINEAR
(408268) 2013 FC <sub>17</sub>	2009 03 21	G96	Spacewatch	(408320) 2013 GE <sub>50</sub>	2006 11 19	691	Spacewatch
(408269) 2013 FG <sub>18</sub>	2005 04 09	G96	Mt. Lemmon Survey	(408321) 2013 GF <sub>50</sub>	1995 09 20	691	Spacewatch
(408270) 2013 FL <sub>18</sub>	2007 09 15	G96	Mt. Lemmon Survey	(408322) 2013 GR <sub>52</sub>	2007 02 09	F51	Spacewatch
(408271) 2013 FN <sub>18</sub>	2009 05 17	G96	Mt. Lemmon Survey	(408323) 2013 GZ <sub>52</sub>	1998 04 20	F51	Spacewatch
(408272) 2013 FO <sub>19</sub>	2006 04 09	926	Spacewatch	(408324) 2013 GA <sub>53</sub>	2008 01 13	F51	Spacewatch
(408273) 2013 FR <sub>19</sub>	2007 09 10	G96	Mt. Lemmon Survey	(408325) 2013 GF <sub>53</sub>	2001 10 23	F51	LINEAR
(408274) 2013 FJ <sub>21</sub>	2006 05 06	G96	Mt. Lemmon Survey	(408326) 2013 GU <sub>53</sub>	2006 10 02	F51	Mt. Lemmon Survey
(408275) 2013 FK <sub>21</sub>	2009 08 26	G96	CSS	(408327) 2013 GM <sub>55</sub>	2005 03 04	F51	Mt. Lemmon Survey
(408276) 2013 FV <sub>21</sub>	2006 05 06	G96	Mt. Lemmon Survey	(408328) 2013 GY <sub>63</sub>	2008 11 19	F51	Spacewatch
(408277) 2013 FE <sub>23</sub>	2003 04 25	G96	Spacewatch	(408329) 2013 GA <sub>67</sub>	2006 04 30	F51	Spacewatch
(408278) 2013 FB <sub>27</sub>	2006 01 23	G96	Spacewatch	(408330) 2013 GE <sub>68</sub>	2004 03 22	G96	LONEOS
(408279) 2013 GM	2004 01 18	703	CSS	(408331) 2013 GW <sub>71</sub>	2003 12 28	F51	Spacewatch
(408280) 2013 GP	2005 04 04	691	CSS	(408332) 2013 GO <sub>73</sub>	2009 04 17	G96	Spacewatch
(408281) 2013 GJ <sub>1</sub>	2008 04 07	691	Spacewatch	(408333) 2013 GT <sub>73</sub>	2010 12 14	G96	Mt. Lemmon Survey
(408282) 2013 GY <sub>3</sub>	2011 09 24	G96	Spacewatch	(408334) 2013 GN <sub>74</sub>	2008 02 06	I41	CSS
(408283) 2013 GE <sub>4</sub>	2009 02 01	G96	Spacewatch	(408335) 2013 GZ <sub>74</sub>	2006 12 12	G96	Spacewatch
(408284) 2013 GG <sub>9</sub>	2008 03 03	G96	Mt. Lemmon Survey	(408336) 2013 GK <sub>75</sub>	2009 02 26	F51	CSS
(408285) 2013 GK <sub>9</sub>	2004 03 17	G96	Spacewatch	(408337) 2013 GZ <sub>75</sub>	1999 04 16	G96	Spacewatch
(408286) 2013 GK <sub>11</sub>	2005 04 12	G96	Spacewatch	(408338) 2013 GM <sub>77</sub>	2007 12 30	G96	Spacewatch
(408287) 2013 GR <sub>11</sub>	2006 01 23	926	Mt. Lemmon Survey	(408339) 2013 GH <sub>78</sub>	1996 05 10	H15	Spacewatch
(408288) 2013 GT <sub>11</sub>	2006 05 06	703	Mt. Lemmon Survey	(408340) 2013 GO <sub>79</sub>	2002 04 13	F51	Spacewatch
(408289) 2013 GN <sub>12</sub>	2010 10 02	703	Spacewatch	(408341) 2013 GR <sub>79</sub>	2008 04 12	F51	Spacewatch
(408290) 2013 GX <sub>12</sub>	2006 12 27	I41	Spacewatch	(408342) 2013 GB <sub>81</sub>	1998 03 20	F51	Spacewatch
(408291) 2013 GF <sub>13</sub>	2007 10 10	G32	Mt. Lemmon Survey	(408343) 2013 GM <sub>81</sub>	2011 09 20	691	Mt. Lemmon Survey
(408292) 2013 GT <sub>14</sub>	2005 12 25	G96	Spacewatch	(408344) 2013 GN <sub>81</sub>	2006 09 15	703	Spacewatch
(408293) 2013 GV <sub>14</sub>	2008 02 28	G96	Mt. Lemmon Survey	(408345) 2013 GJ <sub>82</sub>	2010 10 01	J04	Mt. Lemmon Survey
(408294) 2013 GD <sub>15</sub>	2008 12 31	G96	Spacewatch	(408346) 2013 GC <sub>83</sub>	2011 10 30	493	Spacewatch
(408295) 2013 GP <sub>15</sub>	2009 03 02	926	Mt. Lemmon Survey	(408347) 2013 GK <sub>83</sub>	2010 10 14	G96	Mt. Lemmon Survey
(408296) 2013 GY <sub>16</sub>	2005 01 19	F51	Spacewatch	(408348) 2013 GL <sub>83</sub>	2008 01 30	G96	Spacewatch
(408297) 2013 GE <sub>20</sub>	2007 02 17	F51	Mt. Lemmon Survey	(408349) 2013 GS <sub>83</sub>	2005 03 03	G96	CSS
(408298) 2013 GH <sub>20</sub>	2007 01 28	F51	Mt. Lemmon Survey	(408350) 2013 GS <sub>84</sub>	2003 04 25	926	Spacewatch



(408351)	2013	GU <sub>84</sub>	2013 03 31	703	Mt. Lemmon Survey
(408352)	2013	GD <sub>85</sub>	2003 07 02	926	LINEAR
(408353)	2013	GM <sub>86</sub>	2004 03 14	G96	Spacewatch
(408354)	2013	GC <sub>87</sub>	2008 03 31	I41	CSS
(408355)	2013	GX <sub>88</sub>	2003 04 03	N87	LONEOS
(408356)	2013	GE <sub>89</sub>	2007 10 10	J04	Spacewatch
(408357)	2013	GS <sub>89</sub>	2005 12 26	G96	Spacewatch
(408358)	2013	GU <sub>89</sub>	2006 06 26	G96	Siding Spring Survey
(408359)	2013	GO <sub>90</sub>	2008 01 20	926	Mt. Lemmon Survey
(408360)	2013	GT <sub>90</sub>	2009 10 01	691	Mt. Lemmon Survey
(408361)	2013	GF <sub>91</sub>	2009 10 15	F51	Mt. Lemmon Survey
(408362)	2013	GG <sub>91</sub>	2008 01 11	G32	Spacewatch
(408363)	2013	GS <sub>91</sub>	2010 09 04	E12	Mt. Lemmon Survey
(408364)	2013	GW <sub>91</sub>	2010 09 18	926	Mt. Lemmon Survey
(408365)	2013	GX <sub>91</sub>	1999 01 15	703	Spacewatch
(408366)	2013	GZ <sub>91</sub>	2010 09 10	E12	Spacewatch
(408367)	2013	GM <sub>93</sub>	2006 01 09	G96	Spacewatch
(408368)	2013	GN <sub>94</sub>	2010 09 19	926	Spacewatch
(408369)	2013	GP <sub>94</sub>	2009 02 20	926	Spacewatch
(408370)	2013	GS <sub>94</sub>	2009 01 01	G96	Spacewatch
(408371)	2013	GF <sub>95</sub>	1996 04 13	F51	Spacewatch
(408372)	2013	GH <sub>95</sub>	2010 10 17	F51	Mt. Lemmon Survey
(408373)	2013	GQ <sub>95</sub>	2009 09 17	926	Mt. Lemmon Survey
(408374)	2013	GW <sub>95</sub>	2009 04 18	F51	Spacewatch
(408375)	2013	GZ <sub>95</sub>	2004 05 11	F51	LONEOS
(408376)	2013	GG <sub>96</sub>	2007 09 24	926	Spacewatch
(408377)	2013	GU <sub>96</sub>	2000 05 31	691	Spacewatch
(408378)	2013	GB <sub>98</sub>	2004 04 14	G96	Spacewatch
(408379)	2013	GC <sub>98</sub>	2006 10 17	G96	CSS
(408380)	2013	GP <sub>98</sub>	1996 04 18	F51	Spacewatch
(408381)	2013	GP <sub>99</sub>	2012 01 26	691	Mt. Lemmon Survey
(408382)	2013	GU <sub>99</sub>	2005 04 10	F51	Mt. Lemmon Survey
(408383)	2013	GG <sub>100</sub>	2009 09 23	F51	Mt. Lemmon Survey
(408384)	2013	GH <sub>101</sub>	1994 10 11	F51	Spacewatch
(408385)	2013	GJ <sub>101</sub>	2001 03 22	F51	Spacewatch
(408386)	2013	GQ <sub>102</sub>	2008 02 07	G96	Mt. Lemmon Survey
(408387)	2013	GF <sub>103</sub>	2006 02 06	G96	Mt. Lemmon Survey
(408388)	2013	GC <sub>104</sub>	2006 03 23	926	Spacewatch
(408389)	2013	GK <sub>105</sub>	2003 12 22	E12	Spacewatch
(408390)	2013	GX <sub>105</sub>	2007 09 10	G96	Spacewatch
(408391)	2013	GM <sub>106</sub>	2008 10 26	926	Spacewatch
(408392)	2013	GX <sub>108</sub>	2006 09 25	F51	Spacewatch
(408393)	2013	GG <sub>109</sub>	2001 12 17	F51	LINEAR
(408394)	2013	GQ <sub>109</sub>	2005 06 08	G96	Siding Spring Survey
(408395)	2013	GE <sub>111</sub>	2008 04 30	F51	Mt. Lemmon Survey
(408396)	2013	GL <sub>111</sub>	2009 09 16	691	CSS
(408397)	2013	GU <sub>111</sub>	2007 12 04	926	Mt. Lemmon Survey
(408398)	2013	GV <sub>111</sub>	2004 12 11	H15	Spacewatch
(408399)	2013	GY <sub>111</sub>	2007 12 16	F51	Mt. Lemmon Survey
(408400)	2013	GZ <sub>111</sub>	2011 11 18	F51	Spacewatch
(408401)	2013	GC <sub>112</sub>	2004 04 14	F51	LONEOS
(408402)	2013	GE <sub>112</sub>	2007 10 09	F51	Mt. Lemmon Survey

(408403)	2013	GE <sub>113</sub>	2006 09 17	F51	Spacewatch
(408404)	2013	GF <sub>113</sub>	2007 01 28	F51	Mt. Lemmon Survey
(408405)	2013	GS <sub>113</sub>	2004 04 13	493	Spacewatch
(408406)	2013	GT <sub>113</sub>	2008 12 31	493	CSS
(408407)	2013	GR <sub>122</sub>	2008 04 06	F51	Spacewatch
(408408)	2013	GB <sub>123</sub>	2005 04 17	F51	Spacewatch
(408409)	2013	GS <sub>123</sub>	2006 02 20	F51	Mt. Lemmon Survey
(408410)	2013	GY <sub>124</sub>	2005 04 17	F51	Spacewatch
(408411)	2013	GH <sub>127</sub>	2008 02 09	F51	Spacewatch
(408412)	2013	GO <sub>127</sub>	2009 10 26	F51	Spacewatch
(408413)	2013	GT <sub>127</sub>	2005 06 15	G96	Spacewatch
(408414)	2013	GA <sub>130</sub>	2008 01 19	703	Spacewatch
(408415)	2013	GG <sub>134</sub>	2008 02 28	F51	Mt. Lemmon Survey
(408416)	2013	GP <sub>134</sub>	2008 04 11	F51	Spacewatch
(408417)	2013	GA <sub>135</sub>	2011 10 28	F51	Mt. Lemmon Survey
(408418)	2013	GB <sub>135</sub>	2007 10 08	F51	Mt. Lemmon Survey
(408419)	2013	HG	2000 09 28	F51	LONEOS
(408420)	2013	HX	2005 11 22	691	Spacewatch
(408421)	2013	HA <sub>1</sub>	2009 10 16	Q62	Mt. Lemmon Survey
(408422)	2013	HQ <sub>1</sub>	2006 05 25	691	Mt. Lemmon Survey
(408423)	2013	HV <sub>1</sub>	2003 11 26	F51	Spacewatch
(408424)	2013	HE <sub>2</sub>	2010 10 28	F51	Mt. Lemmon Survey
(408425)	2013	HX <sub>2</sub>	2012 01 04	G96	Mt. Lemmon Survey
(408426)	2013	HX <sub>3</sub>	2011 11 01	691	Mt. Lemmon Survey
(408427)	2013	HD <sub>6</sub>	2007 03 26	691	Mt. Lemmon Survey
(408428)	2013	HO <sub>6</sub>	2008 03 15	G96	Mt. Lemmon Survey
(408429)	2013	HO <sub>8</sub>	2009 05 16	A13	Mt. Lemmon Survey
(408430)	2013	HS <sub>9</sub>	2005 11 01	I41	CSS
(408431)	2013	HH <sub>14</sub>	2002 10 09	G96	Spacewatch
(408432)	2013	HK <sub>14</sub>	2007 09 13	F51	Spacewatch
(408433)	2013	HL <sub>14</sub>	2012 02 19	I41	Spacewatch
(408434)	2013	HO <sub>14</sub>	2011 11 30	G96	CSS
(408435)	2013	HR <sub>14</sub>	2005 10 22	G96	Spacewatch
(408436)	2013	HJ <sub>15</sub>	2007 12 17	E12	Mt. Lemmon Survey
(408437)	2013	HV <sub>15</sub>	2005 06 18	691	Mt. Lemmon Survey
(408438)	2013	HX <sub>15</sub>	2003 12 27	F51	Spacewatch
(408439)	2013	HA <sub>16</sub>	2006 11 17	F51	Spacewatch
(408440)	2013	HN <sub>21</sub>	2008 05 14	G96	Mt. Lemmon Survey
(408441)	2013	HP <sub>21</sub>	2008 02 11	G96	Spacewatch
(408442)	2013	HV <sub>21</sub>	2004 03 21	691	Spacewatch
(408443)	2013	HQ <sub>22</sub>	2006 09 17	926	Spacewatch
(408444)	2013	HZ <sub>22</sub>	2007 04 11	G96	CSS
(408445)	2013	HK <sub>23</sub>	2011 09 27	G96	Mt. Lemmon Survey
(408446)	2013	HL <sub>23</sub>	2003 12 29	703	LONEOS
(408447)	2013	HN <sub>23</sub>	2007 11 18	F51	Mt. Lemmon Survey
(408448)	2013	HK <sub>24</sub>	2003 11 30	G96	Spacewatch
(408449)	2013	HR <sub>25</sub>	2009 04 22	I41	Spacewatch
(408450)	2013	HG <sub>26</sub>	2006 04 30	G96	Spacewatch
(408451)	2013	HT <sub>26</sub>	2007 02 16	691	CSS
(408452)	2013	HX <sub>26</sub>	2011 01 16	691	Mt. Lemmon Survey
(408453)	2013	HO <sub>27</sub>	2007 11 18	F51	Mt. Lemmon Survey
(408454)	2013	HL <sub>28</sub>	2012 01 18	691	Mt. Lemmon Survey



(408455) 2013 HF <sub>34</sub>	2010 09 27	W84 Spacewatch	(408507) 2013 JK <sub>27</sub>	2004 03 15	K93 Spacewatch
(408456) 2013 HQ <sub>37</sub>	2007 09 14	W84 Mt. Lemmon Survey	(408508) 2013 JA <sub>28</sub>	2009 08 19	F51 Spacewatch
(408457) 2013 HT <sub>41</sub>	2008 03 09	W84 Mt. Lemmon Survey	(408509) 2013 JW <sub>30</sub>	2006 02 27	703 Spacewatch
(408458) 2013 HC <sub>47</sub>	2012 01 30	W84 Mt. Lemmon Survey	(408510) 2013 JO <sub>31</sub>	2000 03 25	703 Spacewatch
(408459) 2013 HR <sub>52</sub>	2009 01 20	W84 Mt. Lemmon Survey	(408511) 2013 JS <sub>32</sub>	2004 12 20	G96 Mt. Lemmon Survey
(408460) 2013 HB <sub>54</sub>	2007 03 09	W84 Mt. Lemmon Survey	(408512) 2013 JT <sub>32</sub>	2008 07 02	G96 Spacewatch
(408461) 2013 HC <sub>56</sub>	2009 04 29	W84 Mt. Lemmon Survey	(408513) 2013 JO <sub>36</sub>	2007 02 23	691 Mt. Lemmon Survey
(408462) 2013 HE <sub>56</sub>	2008 03 13	W84 Mt. Lemmon Survey	(408514) 2013 JT <sub>36</sub>	2007 03 20	F51 Mt. Lemmon Survey
(408463) 2013 HR <sub>59</sub>	2010 09 16	W84 Mt. Lemmon Survey	(408515) 2013 JY <sub>36</sub>	2007 04 16	F51 CSS
(408464) 2013 HW <sub>60</sub>	2009 01 01	W84 Spacewatch	(408516) 2013 JF <sub>37</sub>	2005 06 18	F51 Mt. Lemmon Survey
(408465) 2013 HP <sub>62</sub>	2008 02 09	W84 Spacewatch	(408517) 2013 JK <sub>37</sub>	2008 04 30	E12 Mt. Lemmon Survey
(408466) 2013 HE <sub>64</sub>	2011 10 22	W84 Spacewatch	(408518) 2013 JZ <sub>37</sub>	2010 01 27	691 WISE
(408467) 2013 HR <sub>65</sub>	2007 09 10	W84 Mt. Lemmon Survey	(408519) 2013 JB <sub>38</sub>	2006 03 05	G96 Mt. Lemmon Survey
(408468) 2013 HU <sub>68</sub>	1999 04 07	W84 Spacewatch	(408520) 2013 JC <sub>38</sub>	2006 11 17	493 Mt. Lemmon Survey
(408469) 2013 HH <sub>71</sub>	2008 03 28	W84 Mt. Lemmon Survey	(408521) 2013 JB <sub>39</sub>	2011 12 26	G96 Spacewatch
(408470) 2013 HG <sub>76</sub>	2006 09 25	W84 Spacewatch	(408522) 2013 JQ <sub>39</sub>	2005 09 30	691 Mt. Lemmon Survey
(408471) 2013 HG <sub>79</sub>	2004 09 07	W84 Spacewatch	(408523) 2013 JK <sub>40</sub>	2008 04 13	F51 Mt. Lemmon Survey
(408472) 2013 HY <sub>80</sub>	2005 09 29	W84 Mt. Lemmon Survey	(408524) 2013 JS <sub>41</sub>	1995 01 31	F51 Spacewatch
(408473) 2013 HP <sub>82</sub>	2001 09 07	W84 LINEAR	(408525) 2013 JR <sub>43</sub>	2007 03 12	G96 Spacewatch
(408474) 2013 HY <sub>87</sub>	2010 10 29	W84 Mt. Lemmon Survey	(408526) 2013 JV <sub>43</sub>	2005 08 29	E12 Spacewatch
(408475) 2013 HP <sub>92</sub>	2008 04 04	W84 Spacewatch	(408527) 2013 JZ <sub>43</sub>	2006 09 17	E12 Spacewatch
(408476) 2013 HC <sub>93</sub>	2009 02 20	W84 Spacewatch	(408528) 2013 JP <sub>46</sub>	2004 09 12	G96 Spacewatch
(408477) 2013 HM <sub>99</sub>	2010 09 18	W84 Mt. Lemmon Survey	(408529) 2013 JB <sub>47</sub>	2009 09 22	G96 Spacewatch
(408478) 2013 HW <sub>102</sub>	2008 02 10	W84 Spacewatch	(408530) 2013 JP <sub>47</sub>	2007 03 13	F51 Mt. Lemmon Survey
(408479) 2013 HU <sub>105</sub>	2003 11 19	W84 Spacewatch	(408531) 2013 JB <sub>48</sub>	2002 03 09	691 Spacewatch
(408480) 2013 HX <sub>115</sub>	2009 09 16	W84 Mt. Lemmon Survey	(408532) 2013 JF <sub>48</sub>	2010 11 06	691 CSS
(408481) 2013 HQ <sub>117</sub>	2011 10 27	W84 Mt. Lemmon Survey	(408533) 2013 JR <sub>48</sub>	2010 09 30	G96 Mt. Lemmon Survey
(408482) 2013 HO <sub>121</sub>	2008 02 10	W84 Spacewatch	(408534) 2013 JD <sub>51</sub>	2008 07 28	691 Siding Spring Survey
(408483) 2013 HF <sub>138</sub>	2010 08 07	W84 WISE	(408535) 2013 JR <sub>51</sub>	2006 04 25	F51 Spacewatch
(408484) 2013 HW <sub>142</sub>	2005 03 11	W84 Mt. Lemmon Survey	(408536) 2013 JN <sub>52</sub>	2003 03 11	G96 Spacewatch
(408485) 2013 JS <sub>5</sub>	2009 09 16	G32 Spacewatch	(408537) 2013 JX <sub>53</sub>	2006 08 21	G96 Spacewatch
(408486) 2013 JN <sub>6</sub>	2008 11 19	W85 Mt. Lemmon Survey	(408538) 2013 JY <sub>53</sub>	2009 07 17	G96 Siding Spring Survey
(408487) 2013 JP <sub>8</sub>	2008 03 04	G96 Spacewatch	(408539) 2013 JO <sub>54</sub>	2004 04 20	F51 Spacewatch
(408488) 2013 JY <sub>8</sub>	2008 03 15	F51 Spacewatch	(408540) 2013 JT <sub>54</sub>	2007 02 13	F51 Mt. Lemmon Survey
(408489) 2013 JC <sub>9</sub>	2006 01 31	G96 Mt. Lemmon Survey	(408541) 2013 JE <sub>55</sub>	2008 09 04	F51 Spacewatch
(408490) 2013 JG <sub>9</sub>	2006 11 17	G96 Mt. Lemmon Survey	(408542) 2013 JL <sub>55</sub>	2002 04 10	F51 LINEAR
(408491) 2013 JV <sub>10</sub>	2005 04 12	G96 Spacewatch	(408543) 2013 JH <sub>60</sub>	2005 01 15	F51 LINEAR
(408492) 2013 JG <sub>11</sub>	2008 02 28	G96 Mt. Lemmon Survey	(408544) 2013 JJ <sub>60</sub>	2007 03 13	F51 Spacewatch
(408493) 2013 JW <sub>13</sub>	2008 03 04	F51 Mt. Lemmon Survey	(408545) 2013 JT <sub>60</sub>	2006 09 26	F51 Spacewatch
(408494) 2013 JR <sub>15</sub>	2005 11 06	G96 Spacewatch	(408546) 2013 JN <sub>61</sub>	1999 11 17	F51 Spacewatch
(408495) 2013 JA <sub>19</sub>	2005 12 25	F51 Spacewatch	(408547) 2013 JX <sub>61</sub>	1998 10 18	F51 Spacewatch
(408496) 2013 JK <sub>19</sub>	2002 05 10	F51 Spacewatch	(408548) 2013 KQ <sub>3</sub>	2006 09 26	G96 Mt. Lemmon Survey
(408497) 2013 JV <sub>20</sub>	2007 03 12	G32 Mt. Lemmon Survey	(408549) 2013 KM <sub>5</sub>	2005 03 11	G96 Spacewatch
(408498) 2013 JE <sub>21</sub>	2003 10 21	691 LONEOS	(408550) 2013 KW <sub>5</sub>	2004 11 20	G32 Spacewatch
(408499) 2013 JP <sub>21</sub>	2012 01 02	F51 Spacewatch	(408551) 2013 KG <sub>8</sub>	2008 03 08	691 CSS
(408500) 2013 JV <sub>21</sub>	2008 03 05	B74 Mt. Lemmon Survey	(408552) 2013 KH <sub>8</sub>	2000 12 22	F51 Spacewatch
(408501) 2013 JO <sub>24</sub>	2007 03 11	F51 Spacewatch	(408553) 2013 KM <sub>8</sub>	2002 04 08	G96 Spacewatch
(408502) 2013 JP <sub>24</sub>	1999 10 06	F51 Spacewatch	(408554) 2013 KR <sub>9</sub>	2005 10 23	691 Spacewatch
(408503) 2013 JT <sub>24</sub>	2000 03 03	F51 LINEAR	(408555) 2013 KK <sub>10</sub>	2007 03 16	G96 Spacewatch
(408504) 2013 JM <sub>25</sub>	2006 11 23	691 Mt. Lemmon Survey	(408556) 2013 KB <sub>11</sub>	2006 11 16	691 Spacewatch
(408505) 2013 JZ <sub>25</sub>	2007 03 09	F51 Spacewatch	(408557) 2013 KQ <sub>11</sub>	2002 04 12	G96 Spacewatch
(408506) 2013 JJ <sub>26</sub>	2006 02 02	F51 Mt. Lemmon Survey	(408558) 2013 KP <sub>12</sub>	2011 12 29	926 Mt. Lemmon Survey



(408559) 2013 KT <sub>12</sub>	2006 08 21	926	Spacewatch	(408611) 2013 YO <sub>16</sub>	2008 10 06	G96	Mt. Lemmon Survey
(408560) 2013 KA <sub>14</sub>	2008 05 08	I41	Mt. Lemmon Survey	(408612) 2014 FE <sub>30</sub>	2010 03 12	G96	CSS
(408561) 2013 KC <sub>14</sub>	1999 12 16	691	Spacewatch	(408613) 2014 GT <sub>16</sub>	2011 03 11	G96	Mt. Lemmon Survey
(408562) 2013 KJ <sub>14</sub>	1999 10 31	691	Spacewatch	(408614) 2014 HM <sub>164</sub>	2003 05 05	J43	Spacewatch
(408563) 2013 KD <sub>15</sub>	2007 04 20	691	Spacewatch	(408615) 2014 KJ <sub>16</sub>	1998 10 14	G96	Spacewatch
(408564) 2013 KJ <sub>17</sub>	2006 01 07	703	Spacewatch	(408616) 2014 KT <sub>33</sub>	2005 04 14	G96	CSS
(408565) 2013 KQ <sub>18</sub>	2005 12 30	926	Spacewatch	(408617) 2014 KQ <sub>34</sub>	2006 11 23	F51	Mt. Lemmon Survey
(408566) 2013 LR <sub>1</sub>	2006 05 19	E12	Mt. Lemmon Survey	(408618) 2014 KT <sub>42</sub>	2007 10 20	F51	Mt. Lemmon Survey
(408567) 2013 LL <sub>3</sub>	2009 08 16	691	Spacewatch	(408619) 2014 KK <sub>53</sub>	2005 10 25	G96	Spacewatch
(408568) 2013 LL <sub>4</sub>	2000 04 28	926	LONEOS	(408620) 2014 KB <sub>56</sub>	2005 04 06	F51	Mt. Lemmon Survey
(408569) 2013 LG <sub>5</sub>	2006 11 20	691	Spacewatch	(408621) 2014 KN <sub>57</sub>	2007 04 25	F51	Spacewatch
(408570) 2013 LO <sub>5</sub>	1997 07 03	I41	Spacewatch	(408622) 2014 KQ <sub>65</sub>	2005 10 22	F51	Spacewatch
(408571) 2013 LP <sub>5</sub>	2006 12 12	I41	Mt. Lemmon Survey	(408623) 2014 KO <sub>70</sub>	2008 01 13	F51	Mt. Lemmon Survey
(408572) 2013 LU <sub>5</sub>	2004 11 10	F51	Spacewatch	(408624) 2014 KS <sub>71</sub>	2004 07 11	F51	LINEAR
(408573) 2013 LH <sub>6</sub>	2005 06 08	F51	Spacewatch	(408625) 2014 KN <sub>74</sub>	2005 10 25	G96	Spacewatch
(408574) 2013 LA <sub>7</sub>	2010 01 22	703	WISE	(408626) 2014 KP <sub>89</sub>	2009 01 16	F51	Spacewatch
(408575) 2013 LG <sub>8</sub>	2004 11 04	926	Spacewatch	(408627) 2014 KO <sub>93</sub>	2008 03 30	F51	Spacewatch
(408576) 2013 LK <sub>11</sub>	2008 04 14	G96	Spacewatch	(408628) 2014 KO <sub>94</sub>	2008 04 14	G96	Mt. Lemmon Survey
(408577) 2013 LU <sub>11</sub>	2007 02 17	G96	Mt. Lemmon Survey	(408629) 2014 KM <sub>99</sub>	2008 12 04	J04	Mt. Lemmon Survey
(408578) 2013 LK <sub>13</sub>	2005 09 14	G96	Spacewatch	(408630) 2014 LC <sub>11</sub>	2001 09 16	F51	LINEAR
(408579) 2013 LR <sub>16</sub>	2004 11 04	926	Spacewatch	(408631) 2014 LD <sub>11</sub>	2006 01 09	F51	Spacewatch
(408580) 2013 LN <sub>18</sub>	2008 02 12	691	Mt. Lemmon Survey	(408632) 2014 LE <sub>12</sub>	2001 07 20	F51	LONEOS
(408581) 2013 LR <sub>18</sub>	2004 09 16	G96	Spacewatch	(408633) 2014 LF <sub>13</sub>	2005 04 11	F51	Spacewatch
(408582) 2013 LB <sub>19</sub>	2008 03 13	G96	Spacewatch	(408634) 2014 LO <sub>16</sub>	2007 01 28	G96	Mt. Lemmon Survey
(408583) 2013 LT <sub>20</sub>	2007 04 22	F51	CSS	(408635) 2014 LQ <sub>17</sub>	2007 02 08	F51	Spacewatch
(408584) 2013 LK <sub>22</sub>	2010 09 17	691	Spacewatch	(408636) 2014 LL <sub>19</sub>	2010 03 16	G96	Spacewatch
(408585) 2013 LW <sub>22</sub>	2005 10 01	691	Spacewatch	(408637) 2014 LO <sub>25</sub>	2006 09 27	C51	CSS
(408586) 2013 LL <sub>23</sub>	2001 02 17	691	Spacewatch	(408638) 2014 MJ <sub>1</sub>	2006 10 03	G96	Mt. Lemmon Survey
(408587) 2013 LV <sub>24</sub>	2012 02 19	G96	Spacewatch	(408639) 2014 MC <sub>4</sub>	2001 12 15	691	LINEAR
(408588) 2013 LZ <sub>24</sub>	2012 03 23	G96	Mt. Lemmon Survey	(408640) 2014 MM <sub>4</sub>	2008 03 08	F51	Mt. Lemmon Survey
(408589) 2013 LZ <sub>25</sub>	2008 05 31	691	Mt. Lemmon Survey	(408641) 2014 MX <sub>7</sub>	2005 04 07	691	Spacewatch
(408590) 2013 LP <sub>26</sub>	2007 03 10	G96	Mt. Lemmon Survey	(408642) 2014 MT <sub>9</sub>	2010 07 03	G96	WISE
(408591) 2013 LA <sub>32</sub>	2010 12 10	691	Mt. Lemmon Survey	(408643) 2014 MR <sub>10</sub>	2008 01 11	691	Mt. Lemmon Survey
(408592) 2013 LE <sub>32</sub>	2007 04 16	691	CSS	(408644) 2014 MS <sub>13</sub>	2008 01 10	F51	Mt. Lemmon Survey
(408593) 2013 LG <sub>32</sub>	2005 12 07	G96	Spacewatch	(408645) 2014 MV <sub>13</sub>	2005 09 01	F51	Spacewatch
(408594) 2013 LJ <sub>32</sub>	2007 04 15	G96	Spacewatch	(408646) 2014 MB <sub>14</sub>	2007 01 28	G96	Mt. Lemmon Survey
(408595) 2013 LP <sub>33</sub>	2011 11 26	926	Mt. Lemmon Survey	(408647) 2014 MG <sub>14</sub>	2006 02 25	G32	Spacewatch
(408596) 2013 LG <sub>34</sub>	2010 09 12	F51	Spacewatch	(408648) 2014 MA <sub>15</sub>	2003 08 21	F51	CINEOS
(408597) 2013 LB <sub>35</sub>	2009 09 29	G96	Mt. Lemmon Survey	(408649) 2014 MB <sub>15</sub>	2011 10 21	F51	Mt. Lemmon Survey
(408598) 2013 MB <sub>2</sub>	2005 11 06	F51	Spacewatch	(408650) 2014 MC <sub>15</sub>	2009 09 16	F51	CSS
(408599) 2013 MJ <sub>2</sub>	2010 12 02	F51	Mt. Lemmon Survey	(408651) 2014 MN <sub>15</sub>	2005 05 09	691	Spacewatch
(408600) 2013 ME <sub>6</sub>	2007 02 21	F51	Spacewatch	(408652) 2014 MO <sub>15</sub>	2008 11 08	G96	Spacewatch
(408601) 2013 MV <sub>11</sub>	1995 03 27	G96	Spacewatch	(408653) 2014 MQ <sub>15</sub>	2008 03 11	G96	Spacewatch
(408602) 2013 NN <sub>1</sub>	2006 09 20	F51	CSS	(408654) 2014 MX <sub>19</sub>	2008 11 07	F51	Mt. Lemmon Survey
(408603) 2013 OC <sub>7</sub>	2005 10 01	F51	Spacewatch	(408655) 2014 MD <sub>20</sub>	2007 06 20	F51	Spacewatch
(408604) 2013 OG <sub>10</sub>	2008 08 21	F51	Spacewatch	(408656) 2014 ML <sub>20</sub>	2004 07 21	F51	Siding Spring Survey
(408605) 2013 QB <sub>19</sub>	1994 02 15	F51	Spacewatch	(408657) 2014 MO <sub>20</sub>	2010 02 17	F51	Spacewatch
(408606) 2013 QY <sub>25</sub>	2006 01 08	F51	Spacewatch	(408658) 2014 MV <sub>20</sub>	2005 12 24	F51	Spacewatch
(408607) 2013 QF <sub>26</sub>	2010 02 10	F51	Spacewatch	(408659) 2014 ME <sub>24</sub>	2009 05 04	G96	Mt. Lemmon Survey
(408608) 2013 QK <sub>49</sub>	2006 03 25	F51	Mt. Lemmon Survey	(408660) 2014 MJ <sub>24</sub>	2006 06 18	G96	Spacewatch
(408609) 2013 RA <sub>73</sub>	2007 03 26	691	Mt. Lemmon Survey	(408661) 2014 MS <sub>24</sub>	2006 02 02	G96	Mt. Lemmon Survey
(408610) 2013 TA <sub>40</sub>	2005 03 13	G96	Spacewatch	(408662) 2014 MG <sub>25</sub>	2008 04 14	G96	Spacewatch



(408663) 2014 MS <sub>25</sub>	2010 07 07	G96	Spacewatch
(408664) 2014 MC <sub>26</sub>	2005 07 05	G96	Spacewatch
(408665) 2014 MF <sub>28</sub>	2009 05 01	F51	Mt. Lemmon Survey
(408666) 2014 MT <sub>28</sub>	2009 07 20	F51	Siding Spring Survey
(408667) 2014 MU <sub>30</sub>	2010 04 09	950	Spacewatch
(408668) 2014 MM <sub>31</sub>	2009 03 30	G96	Mt. Lemmon Survey
(408669) 2014 MX <sub>31</sub>	2005 12 29	G96	Mt. Lemmon Survey
(408670) 2014 MA <sub>37</sub>	2007 12 31	F51	Mt. Lemmon Survey
(408671) 2014 MB <sub>37</sub>	2006 09 19	F51	CSS
(408672) 2014 MN <sub>37</sub>	2008 12 21	F51	Mt. Lemmon Survey
(408673) 2014 MB <sub>38</sub>	2008 03 10	F51	Mt. Lemmon Survey
(408674) 2014 MC <sub>38</sub>	2008 05 29	F51	Spacewatch
(408675) 2014 MG <sub>38</sub>	1996 01 12	F51	Spacewatch
(408676) 2014 MK <sub>38</sub>	2010 06 15	F51	WISE
(408677) 2014 MM <sub>38</sub>	2004 08 22	F51	Spacewatch
(408678) 2014 MS <sub>38</sub>	2006 02 04	F51	Mt. Lemmon Survey
(408679) 2014 MA <sub>39</sub>	2001 03 18	I47	Spacewatch
(408680) 2014 MO <sub>39</sub>	2010 03 18	F51	Mt. Lemmon Survey
(408681) 2014 MX <sub>39</sub>	2010 12 02	F51	Mt. Lemmon Survey
(408682) 2014 MA <sub>43</sub>	2004 10 14	J04	Spacewatch
(408683) 2014 MM <sub>43</sub>	2006 11 25	G96	Mt. Lemmon Survey
(408684) 2014 MR <sub>47</sub>	2011 11 30	G96	Mt. Lemmon Survey
(408685) 2014 MN <sub>49</sub>	2010 09 04	G96	Spacewatch
(408686) 2014 MQ <sub>49</sub>	2005 04 10	G96	Spacewatch
(408687) 2014 MA <sub>50</sub>	2005 03 17	F51	Spacewatch
(408688) 2014 MU <sub>52</sub>	2006 10 03	G96	CSS
(408689) 2014 MT <sub>54</sub>	2001 08 23	F51	Spacewatch
(408690) 2014 MS <sub>56</sub>	2009 09 25	F51	CSS
(408691) 2014 MX <sub>56</sub>	2010 09 18	F51	Mt. Lemmon Survey
(408692) 2014 MR <sub>57</sub>	2009 10 02	F51	Mt. Lemmon Survey
(408693) 2014 MM <sub>61</sub>	2008 02 09	J04	CSS
(408694) 2014 MT <sub>61</sub>	2007 11 08	F51	Spacewatch
(408695) 2014 MT <sub>62</sub>	2008 11 02	691	Mt. Lemmon Survey
(408696) 2014 ME <sub>63</sub>	2008 02 11	F51	Spacewatch
(408697) 2014 MX <sub>63</sub>	1995 03 29	F51	Spacewatch
(408698) 2014 ML <sub>64</sub>	2004 03 17	F51	Spacewatch
(408699) 2014 MS <sub>68</sub>	2005 03 16	G96	CSS
(408700) 2014 ND <sub>12</sub>	2008 11 07	F51	Spacewatch
(408701) 2014 NZ <sub>30</sub>	2008 11 08	F51	Spacewatch
(408702) 2014 ND <sub>31</sub>	2005 03 03	F51	Spacewatch
(408703) 2014 NF <sub>31</sub>	2006 01 25	F51	Spacewatch
(408704) 2014 NG <sub>31</sub>	2005 01 13	F51	CSS
(408705) 2014 NG <sub>33</sub>	2010 09 17	F51	Mt. Lemmon Survey
(408706) 2014 NT <sub>33</sub>	2010 12 10	F51	Mt. Lemmon Survey
(408707) 2014 NB <sub>48</sub>	2005 11 26	F51	Spacewatch
(408708) 2014 NX <sub>49</sub>	2005 12 25	F51	Spacewatch
(408709) 2014 NW <sub>52</sub>	2005 12 28	F51	Spacewatch
(408710) 2014 NP <sub>53</sub>	2010 05 07	F51	Spacewatch
(408711) 2014 NB <sub>54</sub>	2006 08 28	F51	CSS
(408712) 2014 NL <sub>54</sub>	2010 05 11	F51	Mt. Lemmon Survey
(408713) 2014 NR <sub>59</sub>	2007 06 13	F51	Spacewatch
(408714) 2014 NY <sub>61</sub>	2004 09 08	F51	LINEAR

(408715) 2014 OJ <sub>4</sub>	2008 10 26	J75	Spacewatch
(408716) 2014 OS <sub>4</sub>	2009 09 25	J04	Mt. Lemmon Survey
(408717) 2014 OK <sub>15</sub>	2003 03 31	F51	LONEOS
(408718) 2014 OO <sub>16</sub>	2006 09 20	F51	Spacewatch
(408719) 2014 OL <sub>17</sub>	2010 09 16	F51	Spacewatch
(408720) 2014 OY <sub>18</sub>	2008 04 07	F51	Mt. Lemmon Survey
(408721) 2014 OC <sub>22</sub>	2004 09 15	F51	Spacewatch
(408722) 2014 OE <sub>28</sub>	2010 03 14	F51	Mt. Lemmon Survey
(408723) 2014 OY <sub>32</sub>	2008 02 07	F51	Mt. Lemmon Survey
(408724) 2014 OR <sub>33</sub>	2005 12 07	F51	Spacewatch
(408725) 2014 OL <sub>36</sub>	2006 03 04	F51	Spacewatch
(408726) 2014 OG <sub>41</sub>	2010 03 14	F51	Spacewatch
(408727) 2014 ON <sub>42</sub>	2010 12 14	F51	Mt. Lemmon Survey
(408728) 2014 OL <sub>47</sub>	2004 01 19	F51	Spacewatch
(408729) 2014 OF <sub>49</sub>	1993 01 21	F51	Spacewatch
(408730) 2014 OJ <sub>49</sub>	2005 10 28	F51	Mt. Lemmon Survey
(408731) 2014 OF <sub>52</sub>	2009 05 25	F51	Spacewatch
(408732) 2014 OT <sub>56</sub>	2005 10 01	F51	Spacewatch
(408733) 2014 OO <sub>59</sub>	2007 04 15	F51	Spacewatch
(408734) 2014 OB <sub>63</sub>	2008 12 01	F51	Spacewatch
(408735) 2014 OX <sub>65</sub>	2004 04 21	F51	LINEAR
(408736) 2014 OB <sub>66</sub>	1994 02 15	F51	Spacewatch
(408737) 2014 OE <sub>66</sub>	1998 02 23	F51	Spacewatch
(408738) 2014 OG <sub>80</sub>	2007 09 13	F51	Mt. Lemmon Survey
(408739) 2014 OO <sub>80</sub>	2006 01 31	F51	Spacewatch
(408740) 2014 OL <sub>109</sub>	1994 09 12	F51	Spacewatch
(408741) 2014 OM <sub>111</sub>	2005 12 27	G32	Spacewatch
(408742) 2014 OF <sub>112</sub>	1999 10 14	C51	LINEAR
(408743) 2014 OT <sub>115</sub>	2009 09 25	F51	CSS
(408744) 2014 OF <sub>127</sub>	2006 11 13	F51	CSS
(408745) 2014 OJ <sub>129</sub>	2006 01 27	F51	Mt. Lemmon Survey
(408746) 2014 OG <sub>141</sub>	1995 03 28	F51	Spacewatch
(408747) 2014 OP <sub>179</sub>	2000 10 30	F51	LINEAR
(408748) 2014 OZ <sub>241</sub>	2008 09 26	F51	Spacewatch
(408749) 2014 OT <sub>276</sub>	2006 11 16	F51	Spacewatch
(408750) 4308 P-L	1960 09 24	675	van Houten & Gehrels

Orbital elements for the newly-numbered objects listed above at the current 200-day standard epoch (2014 Dec. 9.0 TT):

Object	<i>H</i>	<i>M</i>	$\omega$	$\Omega$	<i>i</i>	<i>e</i>	<i>a</i>	<i>MPO</i>
(404945)	16.3	166.31118	196.51430	344.64935	14.88731	0.1841208	2.7297519303519	
(404946)	16.3	331.62048	204.64763	193.52930	16.35061	0.2483180	3.0693692303519	
(404947)	16.7	309.32011	91.22693	350.10307	16.54146	0.0986483	2.8137503303519	
(404948)	16.1	144.90172	305.41753	284.09052	8.30765	0.0095477	2.9621761303520	
(404949)	16.2	150.44213	160.16401	42.60436	15.69511	0.0430046	2.6194637303520	
(404950)	16.6	14.69439	170.15026	204.53222	10.63235	0.3260519	2.7262001303520	
(404951)	16.5	11.22268	329.49005	32.40912	10.16228	0.2072553	2.7554521303520	
(404952)	17.1	10.06298	323.71019	48.54152	9.83906	0.1822320	2.7377733303521	
(404953)	15.5	320.71767	158.07331	227.06033	14.71969	0.1530269	3.4306591303521	
(404954)	17.9	314.46072	5.74903	47.39002	2.47974	0.1799946	2.3973408303521	
(404955)	16.9	7.57178	19.31377	353.74369	7.21463	0.3111770	2.6231435303521	
(404956)	17.5	327.24430	120.52431	308.05650	7.30123	0.1435195	2.3189308303522	



(404957)	17.8	340.46402	93.56098	305.32239	3.91247	0.1680557	2.7145164303522	(405009)	17.6	328.94097	12.24440	30.60135	6.69939	0.2538178	2.3526773303536
(404958)	17.2	237.15267	152.21871	329.74049	30.97365	0.2661918	1.8619563303522	(405010)	16.8	353.07505	351.18596	70.76273	25.97102	0.2485779	2.3194700303537
(404959)	15.9	347.44147	27.07480	346.13190	16.67783	0.0922681	3.0622277303522	(405011)	16.6	339.20149	37.87802	48.42865	8.58412	0.1976727	2.8062744303537
(404960)	15.2	31.03526	334.75865	351.43872	17.82234	0.1685775	3.0717075303523	(405012)	17.6	355.27553	78.63033	16.56548	1.98199	0.2265977	2.3314375303537
(404961)	16.5	31.16958	185.11591	186.78239	8.80943	0.1069065	3.0210916303523	(405013)	17.1	317.70586	293.36101	112.67745	6.04520	0.1977317	2.3914989303538
(404962)	17.9	344.61384	43.89876	0.56131	7.17656	0.2303968	2.5268134303523	(405014)	15.1	211.23496	142.26732	336.07457	27.19204	0.1103162	3.0951745303538
(404963)	17.0	337.80057	28.48458	340.11137	1.00228	0.1855975	3.1172915303524	(405015)	15.7	199.98895	1.87994	140.71354	17.16950	0.2494311	3.0705713303538
(404964)	15.2	18.17260	348.26599	12.69627	20.80986	0.1246012	3.0531407303524	(405016)	16.6	234.52535	168.24597	333.13688	5.44377	0.0787224	3.0108990303539
(404965)	17.1	356.49383	318.04402	31.55942	10.92067	0.2277496	3.1329079303524	(405017)	17.4	336.10453	167.05643	214.06406	5.88456	0.0669666	2.5248254303539
(404966)	17.0	3.78385	351.65873	21.15148	1.26353	0.1776698	3.0915102303524	(405018)	16.8	24.22833	68.44857	281.72941	11.19938	0.2929095	2.6380869303539
(404967)	17.7	309.88885	152.12545	305.68799	5.62939	0.1903842	2.2191526303525	(405019)	18.3	84.54264	291.65567	335.71491	6.75289	0.2689763	2.1837392303539
(404968)	18.2	327.57496	108.80909	313.96013	0.77413	0.1821552	2.4203233303525	(405020)	18.5	52.69901	160.43373	156.28421	6.86469	0.2503550	2.1814344303539
(404969)	16.3	333.93186	322.75160	53.24451	11.37629	0.0599124	3.0422905303525	(405021)	16.6	25.58911	37.89087	330.66743	4.59989	0.3132945	2.6234819303540
(404970)	15.1	3.01840	102.90613	279.70551	13.87563	0.1724609	2.9400924303525	(405022)	16.8	52.98578	150.36140	168.33630	14.19330	0.2703022	2.6217507303540
(404971)	17.6	26.30313	206.90085	175.35514	3.32353	0.2663835	2.4012383303526	(405023)	16.3	29.29327	49.19347	309.76652	10.89850	0.2152277	2.6255719303540
(404972)	15.9	314.97973	211.49499	206.68704	3.43527	0.1929955	3.9554637303526	(405024)	16.8	356.80097	90.05086	250.27996	10.63656	0.3576630	2.6992401303540
(404973)	16.5	58.48808	4.90408	225.26675	10.73440	0.0260431	3.1639437303526	(405025)	16.0	321.35164	161.77115	253.76511	13.02326	0.1480546	2.6701052303541
(404974)	17.7	34.32629	125.01874	219.49028	5.05563	0.1204510	2.4312654303526	(405026)	17.8	31.01571	6.42381	347.81301	7.12490	0.2320513	2.1837973303541
(404975)	16.1	343.34681	181.30298	219.48289	15.43776	0.2379442	2.9778065303527	(405027)	17.0	22.36901	214.30937	128.03828	5.89730	0.2634945	2.6466142303541
(404976)	15.5	305.79461	177.79400	237.18156	15.60240	0.0770179	3.0441068303527	(405028)	16.7	34.33047	211.10568	144.77765	7.70482	0.2604735	2.6388845303542
(404977)	14.5	1.20002	302.05441	71.69471	10.43447	0.3342316	3.9506781303527	(405029)	17.8	49.69538	177.53784	152.27360	3.68232	0.2121172	2.1831767303542
(404978)	16.3	256.33698	27.13980	57.57042	11.61935	0.1347232	3.0821413303528	(405030)	15.5	313.36051	108.21695	253.29582	23.88065	0.1706940	2.7680591303542
(404979)	15.7	0.93213	299.11421	66.47756	4.72878	0.3209896	3.9410148303528	(405031)	18.5	39.91760	112.05350	217.26236	4.67612	0.2009669	2.1925675303543
(404980)	16.3	9.02099	123.13206	230.91560	10.61590	0.0745457	3.0079587303528	(405032)	17.3	29.95627	102.52198	228.03872	11.54963	0.2874724	2.6591595303543
(404981)	17.0	298.22221	236.48393	206.75779	2.89031	0.1519044	3.0124004303528	(405033)	16.4	72.74243	99.40118	193.43002	12.42916	0.1188347	2.6749906303543
(404982)	15.5	287.09386	325.06009	101.76520	12.07503	0.0665018	3.1346008303528	(405034)	16.7	344.73126	251.49398	167.40165	13.08204	0.1576239	2.6292524303543
(404983)	16.0	292.92080	167.99553	258.44286	11.82013	0.1466321	3.0706532303529	(405035)	16.9	17.79861	28.80534	8.25885	5.48072	0.3015610	2.6217801303544
(404984)	16.7	330.82483	316.38568	104.69807	6.40005	0.1370446	3.0409040303529	(405036)	17.9	3.42676	331.23974	21.77971	5.87000	0.1813539	2.2154488303544
(404985)	15.9	265.78955	164.35265	304.29937	10.09514	0.1253114	3.1015847303529	(405037)	17.9	214.75775	185.38700	358.35495	20.66890	0.0143317	1.8875123303544
(404986)	16.4	154.05601	78.52183	129.51455	8.00074	0.1114620	3.1784244303529	(405038)	17.7	43.06291	339.12822	14.53125	20.96520	0.0762798	1.8888931303544
(404987)	15.1	266.23211	121.20388	330.21091	26.08463	0.3716245	3.1405976303530	(405039)	16.2	348.17856	135.70968	211.78345	6.15025	0.3177825	2.7286967303545
(404988)	16.5	350.84109	197.87758	193.20967	0.52281	0.2209412	3.0725287303530	(405040)	16.9	336.02379	224.54426	175.40463	18.79824	0.1703791	2.6682313303545
(404989)	16.3	315.72901	94.89642	324.41689	8.87629	0.0908309	3.1327831303531	(405041)	18.9	15.19724	148.57387	223.64953	2.91092	0.1973692	2.1910904303546
(404990)	16.9	119.99677	239.34525	341.96601	2.94230	0.1994127	2.6251050303531	(405042)	17.5	9.62868	57.78409	277.92761	1.94512	0.2263895	2.6974050303546
(404991)	16.0	209.15301	169.52812	333.59070	11.30667	0.0638203	3.2123596303531	(405043)	17.6	86.52337	272.31100	11.79422	20.86743	0.0579895	1.9073804303546
(404992)	15.9	244.67594	320.96325	190.21464	27.83329	0.2350952	3.1614118303531	(405044)	18.2	343.02897	76.89111	347.07059	5.43639	0.3496812	2.2003333303546
(404993)	17.0	66.51381	47.03895	186.97822	15.41948	0.3718561	2.7454551303531	(405045)	16.6	36.21779	319.71427	346.22853	9.69920	0.1954042	2.6904567303547
(404994)	16.6	21.66613	354.77096	5.05241	6.99535	0.2875849	2.7708028303532	(405046)	17.1	24.43574	165.92836	178.94271	4.07360	0.2195695	2.6632376303547
(404995)	17.6	342.59712	164.41368	195.02121	2.49438	0.2643137	2.3430735303532	(405047)	17.0	27.10496	308.55189	352.87633	11.94784	0.1722313	2.6970134303547
(404996)	16.4	42.11025	157.38371	173.64347	21.91107	0.2213577	2.7712263303532	(405048)	16.9	340.60402	274.11581	67.50826	1.94026	0.2168802	2.7312400303548
(404997)	16.2	13.99493	1.93589	352.20884	13.73735	0.2053181	2.7928223303533	(405049)	17.0	314.17679	262.78445	169.17237	14.65816	0.1770198	2.6687157303548
(404998)	17.0	26.80139	173.52416	168.48111	1.78688	0.2724835	2.7891231303533	(405050)	17.2	36.88665	195.25811	152.61686	3.23256	0.2194014	2.6365222303548
(404999)	16.4	12.30552	7.57655	37.50626	11.53078	0.2906099	2.7695292303533	(405051)	16.8	81.09073	268.01137	14.59552	4.66926	0.2011609	2.6414680303548
(405000)	16.5	349.41480	160.38873	235.34479	7.14672	0.2247501	2.8021003303533	(405052)	17.0	303.00172	77.85378	353.38388	9.13660	0.1191839	2.6772959303549
(405001)	17.6	25.87873	307.15825	54.38212	7.16453	0.2105715	2.3017038303534	(405053)	18.4	26.59611	158.97508	185.34012	4.76742	0.1837683	2.2070109303549
(405002)	18.1	4.42714	219.55512	148.46840	3.92029	0.2598914	2.3159092303534	(405054)	17.7	332.84140	20.60962	40.89386	5.63970	0.1546943	2.2112969303549
(405003)	16.7	15.33848	175.67567	188.33603	9.07191	0.1713514	2.8023099303534	(405055)	17.1	42.26888	220.61546	134.48840	5.16384	0.1800740	2.6205771303550
(405004)	16.1	33.36972	348.80529	27.32620	26.53555	0.2300798	2.2886135303535	(405056)	17.9	37.58023	137.76473	212.07571	19.26015	0.1589831	1.8899744303550
(405005)	16.1	345.35177	20.56381	70.58027	8.10028	0.2807621	2.7718161303535	(405057)	16.9	6.92689	78.29324	294.11990	11.72021	0.1990505	2.6751087303550
(405006)	17.5	345.00626	146.36348	249.63292	4.70322	0.1997645	2.3370093303536	(405058)	14.0	323.60122	53.38425	69.48663	8.13803	0.5981864	3.5806915303550
(405007)	18.3	31.20099	303.73246	49.13412	6.33049	0.2868526	2.3108645303536	(405059)	16.5	3.74817	19.89251	342.22310	9.49644	0.2008627	2.6875950303553
(405008)	17.2	298.97406	168.59259	267.74503	4.23656	0.1991636	2.3561161303536	(405060)	18.3	14.01441	11.22526	7.91356	21.07926	0.0646295	1.8979365303553



(405061)	16.7	37.43694	338.86960	5.70077	6.60910	0.2116866	2.6643388303553	(405113)	17.8	211.65741	352.41673	162.28901	1.11502	0.1277476	2.3414225303567
(405062)	16.7	353.14452	353.31927	31.57567	15.28759	0.2469126	2.6856496303553	(405114)	16.5	145.64458	222.81786	336.48031	11.80588	0.2185661	2.9983054303567
(405063)	16.9	323.60651	156.59570	282.94002	2.05440	0.3250047	2.6871952303554	(405115)	17.6	100.13964	256.71195	333.54168	5.34952	0.0959392	2.3870312303568
(405064)	17.3	296.64522	161.82923	301.39266	7.01831	0.1663827	2.2102633303554	(405116)	17.3	225.39431	45.46190	111.46523	6.01319	0.1681129	2.3277073303568
(405065)	17.2	347.33871	7.14496	0.97289	5.59499	0.1537426	2.7089104303554	(405117)	16.9	270.58154	134.37110	17.18754	24.38039	0.1746043	2.2766201303568
(405066)	16.9	353.58361	38.71253	10.73147	11.20745	0.2517856	2.6751098303555	(405118)	17.3	252.67705	113.60737	23.68569	20.43951	0.0898915	1.9685531303568
(405067)	17.9	53.33267	113.89830	203.35187	7.97047	0.2219636	2.1977195303555	(405119)	16.7	146.41503	35.59285	148.58335	14.34397	0.2743238	3.0278160303569
(405068)	16.4	21.28874	272.00699	74.99445	13.49745	0.2912387	2.6861785303555	(405120)	16.5	99.79529	56.14863	174.30704	5.68665	0.2097793	3.0729494303569
(405069)	17.8	20.28480	281.95343	98.38696	5.88228	0.1886146	2.1881614303555	(405121)	16.8	95.33199	144.81138	126.62059	15.07460	0.0760943	2.4054575303569
(405070)	16.8	276.64251	23.82349	47.07705	10.06592	0.1709960	2.7612274303556	(405122)	17.4	104.85300	235.64002	6.53387	6.80682	0.3090107	2.4289861303569
(405071)	17.5	347.42068	266.71316	128.14524	4.58371	0.1337265	2.6817715303556	(405123)	15.8	179.97274	120.22578	67.08375	11.92479	0.0305501	2.9651537303570
(405072)	17.7	38.38146	310.70614	17.63010	6.93628	0.2632301	2.2090459303556	(405124)	16.1	63.19641	83.19956	187.10225	16.02909	0.1942600	3.1020857303570
(405073)	17.0	325.24420	342.69102	43.53400	9.65319	0.2219861	2.7414071303556	(405125)	17.4	146.84956	110.93467	90.68148	5.83320	0.1648763	2.4052378303570
(405074)	17.1	341.56172	181.45025	211.90865	12.02663	0.1563325	2.7015124303557	(405126)	16.4	97.96695	10.88300	205.13560	10.83663	0.2280858	3.1070856303570
(405075)	17.0	56.19318	295.16585	16.38012	13.52566	0.1901207	2.6721006303557	(405127)	17.9	99.83193	288.05395	302.24914	1.07866	0.1743243	2.4318569303571
(405076)	16.4	5.68752	282.92716	112.36288	11.87378	0.1688494	2.6678068303557	(405128)	15.9	58.80433	242.36063	29.55572	17.86739	0.2189070	3.1152292303571
(405077)	17.2	339.84984	339.94505	57.88788	5.12033	0.1734530	2.7087526303557	(405129)	18.4	351.12697	29.83139	55.33715	5.83686	0.1760018	1.9418748303571
(405078)	17.8	335.58032	228.03805	180.36173	1.98157	0.1941556	2.6866491303558	(405130)	17.6	111.88862	22.89226	221.59404	4.91595	0.0580808	2.4191349303571
(405079)	17.1	16.64452	149.41237	201.64507	11.03956	0.1872754	2.6956940303558	(405131)	16.1	62.37705	27.24379	233.62942	4.05494	0.2485577	3.1623937303572
(405080)	18.2	314.84109	14.34590	54.75688	6.85315	0.1790798	2.2310974303558	(405132)	16.4	57.41792	44.57182	223.08695	11.22286	0.3152072	3.1955590303572
(405081)	17.0	10.84674	342.47586	57.05250	3.65861	0.1017109	2.6484679303558	(405133)	14.9	88.39576	20.84890	254.69890	22.76984	0.1069915	3.0946109303572
(405082)	16.9	32.56151	100.05208	223.08732	8.72711	0.3187609	2.6876202303559	(405134)	16.1	30.97994	198.60968	165.82876	15.89781	0.2619406	3.1933525303572
(405083)	16.6	356.08748	314.83417	99.88870	8.31684	0.2356530	2.6638096303559	(405135)	15.2	345.69453	69.21783	326.90196	18.96915	0.1692332	3.2132495303573
(405084)	17.2	13.38593	238.74558	129.41978	11.95771	0.2186656	2.6941180303559	(405136)	16.5	340.17738	83.88246	315.75379	5.70130	0.1924067	3.2459067303573
(405085)	17.4	350.37264	223.06484	171.27723	6.57560	0.1162087	2.6736750303559	(405137)	17.0	136.12188	240.63282	317.85411	10.70702	0.0090868	2.5475330303573
(405086)	16.8	3.18927	326.99893	51.20217	6.69083	0.0570474	2.7130919303559	(405138)	17.2	32.20964	13.72042	299.86453	10.76938	0.1645538	2.5316967303573
(405087)	16.8	303.65824	35.35672	42.69617	15.13628	0.1954711	2.7209588303560	(405139)	15.4	341.66760	276.46996	152.79616	18.65132	0.2221620	3.2117668303574
(405088)	17.8	337.11869	338.20159	78.59445	5.36115	0.1373419	2.2236165303560	(405140)	16.0	346.96096	207.44138	192.71283	5.05380	0.1846949	3.2477771303574
(405089)	17.4	268.17613	247.97668	224.67087	4.82986	0.1231116	2.2458586303560	(405141)	16.9	3.11828	201.55331	143.91517	15.61009	0.1113225	2.5283693303574
(405090)	17.4	359.86457	177.46798	243.22688	4.05513	0.1227034	2.6631666303561	(405142)	17.8	341.29069	30.42085	351.88380	4.09431	0.1946309	2.5584761303574
(405091)	17.4	332.55340	169.61419	237.04983	8.70491	0.2393498	2.7229201303561	(405143)	17.3	328.31881	125.47605	234.98462	12.44752	0.2306013	2.5995534303574
(405092)	16.7	321.82309	25.32898	54.43508	9.22752	0.2915277	2.7430378303561	(405144)	16.7	333.29301	13.99398	7.25960	12.90789	0.1890008	2.5576350303575
(405093)	16.7	304.48323	150.66624	289.19884	6.05827	0.2817825	2.7537688303562	(405145)	17.3	301.12321	59.15006	351.83683	4.14863	0.1735063	2.5615867303575
(405094)	16.0	321.54735	167.90390	253.91635	13.53934	0.1699384	2.7286053303562	(405146)	17.4	358.45893	331.89299	39.89172	2.64220	0.2208548	2.5257772303575
(405095)	16.8	342.34088	279.42970	103.86880	4.09436	0.0958842	2.7560779303562	(405147)	18.2	349.91022	35.08707	336.33601	11.60943	0.2089276	2.5476727303575
(405096)	16.6	296.52413	352.15677	108.59539	10.85736	0.2358455	2.7583231303563	(405148)	17.9	11.62833	159.06430	170.31046	3.03226	0.1008799	2.5634967303576
(405097)	16.1	305.75792	328.53524	113.96907	18.77051	0.1159939	2.7847754303563	(405149)	17.1	337.49905	311.03650	58.40841	3.14294	0.1720111	2.5856759303576
(405098)	16.6	291.81916	6.10298	99.46445	10.08107	0.1704032	2.7634807303563	(405150)	17.7	343.46602	274.37953	120.92328	2.22805	0.3108698	2.5541414303576
(405099)	16.1	298.34855	3.11694	75.59241	26.81005	0.1101753	2.7648102303563	(405151)	17.2	14.53093	341.43354	4.36423	11.00640	0.1982408	2.5235709303577
(405100)	17.3	334.73775	103.65738	309.53294	3.80516	0.2706737	2.724658303564	(405152)	17.4	20.53889	351.68130	12.81097	13.08037	0.1723175	2.5157882303577
(405101)	16.5	317.81227	328.50051	75.65886	5.46733	0.0663678	2.7796371303564	(405153)	16.6	230.60115	118.37335	351.68069	9.71897	0.0898197	2.6178102303577
(405102)	16.8	345.82814	279.25788	132.63638	4.19283	0.1912278	2.7405959303564	(405154)	17.9	23.17922	65.36725	284.97087	2.99625	0.2863838	2.5291442303577
(405103)	17.5	310.74553	154.00238	277.38958	4.35554	0.0916433	2.2757788303564	(405155)	16.4	79.07798	332.18809	317.22557	14.36090	0.0773544	2.5266685303578
(405104)	18.1	340.40073	89.99504	310.33566	1.94596	0.1442791	2.2657374303565	(405156)	16.8	341.04356	343.30366	12.77323	11.97643	0.0911517	2.5939859303578
(405105)	18.1	344.70821	98.52172	337.13922	23.22881	0.3802988	2.2177549303565	(405157)	17.1	4.95055	332.97185	45.81603	12.90222	0.1950442	2.5344456303578
(405106)	17.5	237.21974	158.61619	327.44893	6.49183	0.1315729	2.3095491303565	(405158)	17.9	42.50351	107.21669	209.22262	3.83002	0.2521268	2.5431053303579
(405107)	17.9	295.23283	330.47903	139.29508	5.38378	0.1171079	2.2680281303566	(405159)	17.7	30.15024	249.80105	85.19415	7.86989	0.2829130	2.5382606303579
(405108)	16.8	283.57209	308.39014	151.15200	23.38365	0.1995001	2.2962750303566	(405160)	17.0	212.08896	114.34052	39.22871	6.69051	0.1377249	2.5725893303579
(405109)	18.2	333.96414	265.29969	149.39981	7.01965	0.0985726	2.2785137303566	(405161)	17.0	58.91932	206.68759	78.68608	15.28354	0.0872620	2.6024433303579
(405110)	16.0	127.06685	273.25784	290.96234	12.59710	0.2087569	2.9746210303566	(405162)	17.6	341.20151	266.84430	116.63128	6.58197	0.1346744	2.5721118303580
(405111)	18.0	311.43219	109.78864	320.66790	4.91431	0.1523530	2.2880755303567	(405163)	17.4	337.55905	171.12844	248.70328	5.34205	0.2936334	2.5604248303580
(405112)	17.9	157.14599	87.25083	142.40255	23.43083	0.0598289	1.9529222303567	(405164)	17.7	12.37349	97.85525	266.07867	3.59623	0.3240437	2.5404493303580



(405165)	17.0	345.09226	163.06192	223.02864	8.99230	0.2093005	2.5723702303581	(405217)	15.6	18.28515	296.01542	86.73923	5.42563	0.1891055	3.0442301303598
(405166)	16.1	137.48342	173.12923	38.11535	15.61741	0.0475292	2.6149934303581	(405218)	15.6	44.13489	327.82127	358.09832	17.75483	0.3353757	3.0593882303598
(405167)	17.5	335.70096	186.49963	240.11677	6.76314	0.3234711	2.5568655303581	(405219)	17.2	45.76497	218.09268	112.11347	3.31702	0.2218845	2.3701680303599
(405168)	16.5	16.44119	316.94337	66.26427	14.51875	0.1575602	2.5322061303582	(405220)	16.2	11.74011	178.59633	153.60659	11.58030	0.2189195	3.1383841303599
(405169)	17.8	341.25977	221.15590	178.03284	5.56010	0.3076732	2.5693359303582	(405221)	17.7	30.21288	332.54563	2.00807	2.46228	0.1940029	2.3763132303599
(405170)	17.3	330.89794	181.44623	252.68310	2.67335	0.2210920	2.5454771303582	(405222)	17.7	14.35247	291.69540	83.14246	2.33170	0.1945353	2.3697461303599
(405171)	16.5	311.63019	117.87869	248.70443	10.04439	0.1950069	2.6561417303583	(405223)	17.8	313.49467	236.75248	217.32172	1.72903	0.1834063	2.3918505303600
(405172)	17.4	322.11975	128.29301	312.08475	3.16546	0.2732994	2.5708980303583	(405224)	15.4	10.43656	97.15340	266.21002	14.25726	0.2412882	3.1027302303600
(405173)	16.7	359.76927	349.25286	44.17674	8.85479	0.2695955	2.5536770303583	(405225)	15.9	349.59229	208.30654	175.71210	17.30890	0.2011238	3.1454116303600
(405174)	17.0	0.45644	347.08381	29.77681	15.84218	0.1784685	2.5626204303584	(405226)	15.7	349.15905	20.73691	14.05029	17.74938	0.2122844	3.1445456303600
(405175)	17.7	341.11998	177.80791	253.63684	1.68041	0.2894398	2.5466907303584	(405227)	16.0	355.84831	70.37336	312.03603	8.35494	0.2043256	3.1053030303601
(405176)	16.7	25.03800	336.97276	26.99972	16.23412	0.2389895	2.5414781303585	(405228)	15.8	256.58455	231.97024	236.80993	7.89409	0.0348390	3.1309059303601
(405177)	17.4	319.39826	181.20985	205.74760	25.68354	0.0446738	1.8478042303585	(405229)	16.9	60.93763	220.68846	91.72386	5.41456	0.2482738	2.3649922303601
(405178)	17.4	1.29149	288.07868	67.59285	1.69103	0.3039430	2.5842853303585	(405230)	16.0	328.52967	182.97085	209.54391	8.88721	0.2019039	3.1997448303602
(405179)	17.9	343.09711	169.95458	243.55783	2.43145	0.2496735	2.5599946303586	(405231)	16.2	355.66639	6.85153	13.55395	11.02209	0.0562201	3.1237348303602
(405180)	17.8	346.28141	339.21012	69.74854	5.83800	0.2636618	2.5586710303586	(405232)	17.6	57.47448	281.04982	25.67656	4.03713	0.2405385	2.3705692303602
(405181)	17.7	325.11615	148.62366	263.68577	4.17595	0.2585721	2.5901278303586	(405233)	15.8	8.90068	194.65944	167.64602	24.76344	0.2003954	3.1401202303602
(405182)	17.6	299.82451	339.29020	106.57345	5.73318	0.2204272	2.5978905303587	(405234)	17.9	352.94447	75.69232	311.79392	5.23599	0.2697978	2.4013137303603
(405183)	16.9	297.45077	144.64420	289.22373	12.63742	0.2539254	2.6510447303587	(405235)	16.0	39.09086	310.31705	338.47162	10.80686	0.1212336	3.2020384303603
(405184)	15.9	346.09203	164.34957	251.97826	12.94846	0.2913283	2.5704817303587	(405236)	15.5	350.00479	43.92376	1.39218	27.04668	0.1528827	3.1252009303603
(405185)	16.7	21.29439	352.85254	41.93513	4.38853	0.3075820	2.5415686303588	(405237)	16.6	348.46212	53.49153	322.40417	12.72064	0.2883424	3.1672080303603
(405186)	16.8	343.46686	202.04361	213.46933	4.82774	0.3112439	2.5931936303588	(405238)	15.6	26.43216	174.02410	196.46076	13.69054	0.2077591	3.0940760303604
(405187)	16.0	12.64542	55.70727	346.19463	10.30241	0.2860887	2.5591812303589	(405239)	16.4	30.22019	173.22992	156.15484	1.19795	0.2090045	3.1688578303604
(405188)	16.3	319.07234	89.23822	332.08954	16.13230	0.1729482	2.6309362303589	(405240)	15.5	345.99065	38.62589	20.44933	14.93018	0.2644392	3.0916569303604
(405189)	20.6	257.02502	2.84349	140.82800	13.69596	0.0805545	1.3285454303589	(405241)	17.6	16.45093	255.25481	149.20252	6.95236	0.1004798	2.3441366303604
(405190)	16.5	20.92472	235.30164	162.38478	7.65707	0.2740399	2.5593249303590	(405242)	15.4	324.70927	188.55404	243.93222	17.12653	0.2127183	3.1466881303605
(405191)	17.2	244.60141	310.23325	169.71283	9.35472	0.0359258	2.7193776303590	(405243)	15.8	39.81102	311.34426	21.31411	16.28633	0.2400330	3.0864393303605
(405192)	16.4	163.11643	220.20151	310.75477	8.47166	0.1560825	2.7904144303590	(405244)	17.2	33.91816	111.52682	229.24855	3.30545	0.2964998	2.3804364303605
(405193)	16.3	265.48608	151.36911	309.18448	7.88039	0.0796768	2.7090933303590	(405245)	15.6	341.49414	359.91475	24.35935	14.89225	0.1349153	3.1707845303606
(405194)	15.9	351.23820	75.17256	11.68322	11.78025	0.2761338	2.5631799303591	(405246)	15.3	315.16767	48.92453	12.63612	27.16467	0.1910300	3.1678736303606
(405195)	16.1	329.62505	290.51346	140.51669	28.54616	0.2999965	2.6318275303591	(405247)	16.0	322.64449	233.04867	183.93024	16.53300	0.2025717	3.1459564303606
(405196)	16.1	300.79775	337.97333	144.38350	20.71559	0.3193444	2.6276370303591	(405248)	16.3	353.40294	45.12316	15.64329	3.21342	0.3063436	3.0665782303607
(405197)	16.2	134.37922	253.80730	325.51366	13.55961	0.2089311	2.8000457303592	(405249)	17.0	336.25656	166.26625	237.38386	6.99936	0.1000778	2.3753938303607
(405198)	16.3	323.88174	98.46211	6.39020	28.56809	0.3625556	2.5975556303592	(405250)	15.8	79.88620	315.38223	320.64428	15.11594	0.1638219	3.0844844303607
(405199)	16.3	333.77492	76.15328	12.87415	27.77266	0.4128299	2.5965265303592	(405251)	17.6	45.80942	268.75243	47.96831	2.70668	0.2507590	2.3734438303607
(405200)	18.0	322.97301	50.30899	8.88049	11.14681	0.2336260	1.8544543303593	(405252)	18.2	36.81104	174.31130	166.11261	3.13018	0.2102798	2.3768205303608
(405201)	17.5	183.39422	24.25989	131.99150	22.54968	0.1390612	1.9044359303593	(405253)	16.1	22.85556	209.59409	199.53887	11.34140	0.2058780	3.0257168303608
(405202)	17.9	191.78900	151.29907	31.19124	21.84227	0.0428090	1.8913676303593	(405254)	15.8	305.74485	46.51349	31.41756	10.94252	0.0995279	3.1325739303608
(405203)	18.4	123.08960	347.34088	237.29909	1.27130	0.1510654	2.2775223303593	(405255)	15.7	48.03322	281.22378	23.60525	16.46432	0.2364210	3.1471282303608
(405204)	17.8	97.36798	101.44694	105.46635	8.82365	0.2772988	2.3380691303594	(405256)	18.1	1.82720	226.99991	138.01395	1.84493	0.2032744	2.4046915303609
(405205)	17.6	141.74813	184.09606	47.45174	3.85855	0.1781208	2.2634053303594	(405257)	17.6	39.21798	269.27990	54.96400	2.06286	0.2027867	2.3899573303609
(405206)	16.2	195.03014	99.35670	73.40185	13.95986	0.1364338	2.8061357303594	(405258)	15.3	41.83914	288.00916	16.53217	26.07119	0.2123292	3.1759326303609
(405207)	16.2	51.29673	90.35716	165.10960	24.42326	0.3501952	3.0676477303594	(405259)	16.9	14.26317	352.69045	42.69259	9.89750	0.1961291	2.3653786303609
(405208)	17.8	358.72155	133.19718	238.71593	5.34321	0.2140280	2.3708837303595	(405260)	16.0	354.91558	43.03433	343.08996	11.06653	0.1314592	3.1185599303610
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(405210)	17.3	65.07004	186.63532	102.67808	6.88498	0.2552655	2.3518216303596	(405262)	16.5	334.26594	240.67108	147.53451	6.07278	0.1461635	3.1922106303610
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(405215)	17.1	3.01199	70.84199	293.80937	5.54931	0.1581194	2.3906235303597	(405267)	16.3	109.33011	256.72678	352.48704	15.28722	0.1900154	3.0894233303612
(405216)	16.3	342.58417	73.75075	358.45129	11.14081	0.3679995	2.3778950303597	(405268)	16.6	359.96226	102.05287	249.87725	3.80219	0.1854714	3.1852694303612



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(405373)	16.9	168.60654	80.22158	125.29897	15.73204	0.0703514	2.5425939303639	(405425)	17.7	334.28588	211.40658	199.72313	3.27171	0.1699779	2.2633555303653
(405374)	17.0	251.84744	145.85919	322.09856	12.21929	0.1800970	2.5620893303640	(405426)	15.8	36.73278	315.77568	17.71762	9.72591	0.0869312	2.9255497303653
(405375)	16.8	166.12251	264.20309	295.75602	4.00294	0.1642441	2.5717135303640	(405427)	18.0	84.24231	60.07993	195.06026	12.23180	0.4379585	2.2457068303654
(405376)	17.3	281.49524	342.60961	129.42567	8.29456	0.2024460	2.5313724303640	(405428)	16.2	293.93848	239.96182	208.65080	10.08714	0.0922073	2.9075750303654
(405377)	16.3	156.11037	219.93518	311.02155	12.25114	0.1875964	2.6545541303640	(405429)	18.4	3.82192	112.25903	269.38419	4.35923	0.1771048	2.2307681303655
(405378)	17.8	299.00831	112.11970	312.18076	1.03252	0.1393411	2.5288526303641	(405430)	16.7	5.32927	334.66035	3.77967	4.91143	0.2158090	2.9750230303655
(405379)	17.4	219.70905	1.23086	136.52292	7.34096	0.0856847	2.5698106303641	(405431)	17.5	30.23325	297.36484	41.01282	7.77472	0.1878604	2.2431761303655
(405380)	16.4	25.19012	192.41810	131.13336	15.47551	0.1225356	2.5776645303641	(405432)	17.8	2.94429	8.50158	19.30319	4.76898	0.1438062	2.2372829303655
(405381)	17.6	30.22408	326.21951	346.30509	2.71814	0.0617313	2.6694638303641	(405433)	17.8	15.78357	140.94323	203.79678	7.54252	0.3275165	2.9758719303656
(405382)	16.9	185.19702	190.79667	325.60604	13.68358	0.1046837	2.6165962303642	(405434)	16.2	22.34228	155.57957	200.49715	19.24983	0.0764528	2.9339259303656
(405383)	16.9	202.21955	163.80408	13.58643	6.31214	0.1547198	2.5611175303642	(405435)	18.3	314.94860	39.14173	4.28062	3.60266	0.1564851	2.2890226303656
(405384)	17.5	130.75596	198.57654	359.94872	5.73921	0.1219917	2.6521703303642	(405436)	17.9	56.08936	298.08421	16.66479	6.59409	0.2057543	2.2428569303656
(405385)	16.9	101.21313	73.50449	161.98235	12.78906	0.1221669	2.6914878303642	(405437)	15.9	268.87870	38.23999	28.13108	9.93492	0.1163495	3.1623804303656
(405386)	16.5	196.41300	347.74203	179.61295	13.03968	0.0771778	2.6144951303643	(405438)	16.7	279.65467	238.91629	189.81721	5.95801	0.1171907	3.0832584303657
(405387)	16.3	161.63827	14.89809	178.98782	13.04611	0.2155848	2.6601115303643	(405439)	16.0	321.72068	359.12666	28.47784	12.31249	0.2216686	3.0591842303657
(405388)	16.8	147.19732	68.99703	131.77679	5.39327	0.2328881	2.6702473303643	(405440)	15.8	334.04970	79.65993	268.20968	13.61872	0.2625070	3.0968057303657
(405389)	16.9	125.58553	244.30544	350.87282	13.22584	0.1289507	2.6486128303644	(405441)	16.9	11.92428	93.40012	224.05491	1.66847	0.1197176	3.0592628303657
(405390)	18.1	72.23143	191.39924	63.23194	4.12506	0.2084971	2.1770715303644	(405442)	16.7	73.88378	84.98895	194.96825	14.96649	0.1428547	2.9669486303658
(405391)	18.0	198.14181	172.01020	18.00418	1.45235	0.0796929	2.5845884303644	(405443)	16.5	316.27086	191.06986	206.42586	4.24875	0.1617138	3.0361324303658
(405392)	17.3	295.12395	86.14238	358.80337	6.77861	0.1019905	2.5842320303644	(405444)	18.2	1.25249	5.10841	4.11936	2.63376	0.1251175	2.2604661303658
(405393)	16.3	194.21515	290.03403	237.73624	7.01882	0.1798398	2.6570727303645	(405445)	17.7	314.72427	250.94194	191.47019	5.33808	0.1068360	2.2393967303658
(405394)	17.5	103.55920	178.25097	61.62843	8.40843	0.2457451	2.7416090303645	(405446)	16.4	256.45619	91.69204	15.36265	10.38471	0.0652220	3.0071570303659
(405395)	16.8	50.85900	294.46465	31.91638	7.89786	0.0701536	2.6541847303645	(405447)	17.9	11.93820	6.23836	348.59910	2.85020	0.1759032	2.2675414303659
(405396)	16.0	82.20266	261.33501	53.92620	14.16549	0.1915640	2.6846975303645	(405448)	16.5	46.61460	112.97095	189.58350	6.66425	0.1544607	3.0092506303659
(405397)	18.6	72.81306	169.91225	145.84579	1.32243	0.2484585	1.8206285303646	(405449)	15.4	19.82030	40.93249	314.30108	14.30864	0.0925544	2.9850829303659
(405398)	18.5	35.31928	144.37639	177.98147	5.41020	0.2786217	2.2255171303646	(405450)	16.4	249.88770	251.78018	204.08526	8.17595	0.1782393	3.1113218303660
(405399)	18.2	29.85650	238.43785	111.53609	5.04275	0.2916329	2.2138513303646	(405451)	17.4	43.72079	304.11517	43.06812	6.96007	0.1909365	2.2297429303660
(405400)	16.7	9.50723	195.51431	167.04019	9.72887	0.3195041	2.9166278303646	(405452)	17.5	144.17164	203.86708	29.66748	7.14243	0.0514742	2.2639195303660
(405401)	17.2	66.17070	290.56375	327.40817	23.59677	0.2784525	2.2488604303647	(405453)	16.6	358.63075	327.45147	50.31500	5.18177	0.2692495	2.9983676303660
(405402)	16.3	46.59050	210.71220	113.68821	6.59609	0.2169228	2.8756213303647	(405454)	16.7	340.75651	211.86654	179.92351	4.41080	0.2365328	2.9828023303661
(405403)	18.0	34.50379	341.56248	339.35690	9.28078	0.2697870	2.2337340303647	(405455)	18.2	329.58165	138.23811	266.92206	2.28492	0.2051251	2.2831758303661
(405404)	18.1	73.48332	137.13063	161.98707	6.93002	0.1776390	2.1986288303648	(405456)	18.1	24.80608	12.84326	332.28894	2.28422	0.2587940	2.2474382303661
(405405)	17.2	12.60362	18.44447	331.43330	5.91312	0.2369851	2.9361892303648	(405457)	16.6	8.94992	334.31667	27.93791	2.41160	0.2406457	2.9829704303661
(405406)	17.9	17.39774	152.57610	175.66683	3.80049	0.1692640	2.2605956303648	(405458)	16.1	233.83521	72.33344	37.46216	5.14804	0.1549479	3.1466470303662
(405407)	18.2	8.76460	239.98129	130.26179	1.90047	0.2482543	2.2372295303648	(405459)	16.1	21.11355	105.59480	219.48414	9.17708	0.0645905	3.1001951303662
(405408)	17.7	27.31279	358.16728	350.56891	5.88492	0.1788662	2.2246550303649	(405460)	17.2	320.25573	331.00529	92.95118	1.05148	0.2651024	3.0242932303662
(405409)	17.5	69.15512	303.94288	348.96874	5.05843	0.2066924	2.2294506303649	(405461)	16.0	39.22189	277.85032	46.42067	12.79454	0.1540856	3.0191034303662
(405410)	17.6	71.41953	278.11453	20.26082	3.21485	0.1478042	2.2242215303649	(405462)	17.3	334.80437	105.23787	278.53252	1.42072	0.1678663	3.0544382303663
(405411)	17.8	62.92984	109.84406	192.77383	7.68527	0.1790767	2.2523003303650	(405463)	16.0	271.37024	50.19145	18.70430	11.25669	0.0864171	3.0757039303663
(405412)	17.8	23.86985	161.35341	189.25336	6.75221	0.1683049	2.2325313303650	(405464)	17.9	329.41044	210.24130	192.46183	3.85631	0.1496320	2.2774858303663
(405413)	16.6	296.01406	57.13545	1.16850	9.10448	0.0975796	2.9826025303650	(405465)	17.0	350.98280	240.85678	143.51127	2.66033	0.1033388	2.9191009303663
(405414)	18.4	357.17565	142.09647	168.77134	23.08721	0.0116617	1.9071824303650	(405466)	15.3	22.94216	82.54246	283.23338	8.69236	0.1090517	2.9823457303664
(405415)	15.6	247.28216	107.03238	340.81929	17.11998	0.2153936	3.0939407303650	(405467)	17.2	339.10312	0.92593	28.63988	8.96045	0.2654345	2.2932838303664
(405416)	17.7	46.31597	159.90955	194.05261	5.82758	0.2393353	2.2129723303651	(405468)	15.5	258.89540	23.25702	54.42368	15.28157	0.2464878	3.1881744303664
(405417)	17.5	52.61060	25.47954	308.29120	3.25262	0.1904270	2.2206975303651	(405469)	16.5	23.61556	312.32495	40.65252	4.11331	0.3801129	2.9553640303664
(405418)	15.9	330.04606	52.07776	334.29998	8.86715	0.0670660	2.9731906303651	(405470)	16.3	329.72850	189.32798	209.89239	9.14326	0.0967885	3.0531555303665
(405419)	15.6	344.25348	162.67280	237.95055	15.83891	0.1843161	2.9170883303652	(405471)	17.8	40.48566	300.71251	43.91143	3.33429	0.2726079	2.2410401303665
(405420)	18.0	260.38161	132.31594	348.97452	7.55742	0.0537756	2.2338597303652	(405472)	17.2	8.33972	301.80529	59.78864	6.70372	0.2558833	2.2811399303665
(405421)	17.5	32.47505	101.84966	239.92439	5.90646	0.2630991	2.2270548303652	(405473)	16.9	345.43496	232.36183	162.15658	1.10584	0.1928015	3.0343556303666
(405422)	16.2	310.85183	159.02404	259.79597	7.35916	0.2695742	3.0172720303652	(405474)	16.6	293.22970	87.13657	22.98079	22.17758	0.2649020	2.3039352303666
(405423)	16.4	327.37947	39.39767	346.08274	8.31097	0.1946906	3.0160959303653	(405475)	15.9	244.14173	53.68314	35.89164	9.12643	0.1940280	3.2312331303666
(405424)	18.5	4.59024	152.47106	215.78373	5.85658	0.1929866	2.2610287303653	(405476)	16.3	254.36331	194.96796	265.60833	4.87300	0.2586584	3.1607680303666



(405477)	18.0	356.81731	315.37128	92.99359	3.67113	0.1729582	2.2457369303666	(405529)	17.4	97.71198	38.32468	177.13052	4.01660	0.1743549	2.5467827303681
(405478)	18.4	356.16984	300.98589	104.04401	2.84263	0.2533479	2.2511717303667	(405530)	16.7	305.21162	321.18193	177.35302	10.67012	0.1852629	3.1169368303681
(405479)	15.5	1.54819	356.09745	16.99315	10.63194	0.2409414	3.0301136303667	(405531)	17.5	298.90451	255.14827	181.80005	9.83210	0.1891769	2.4068329303681
(405480)	15.6	355.81170	115.11548	273.78102	10.02001	0.2029196	2.9854992303667	(405532)	15.8	305.06438	287.04732	184.90849	25.29599	0.2952277	3.1645690303681
(405481)	15.2	28.00442	59.19516	266.76198	14.73687	0.0370423	3.1022365303668	(405533)	17.8	215.39114	179.36495	327.70246	1.93954	0.1384595	2.4587637303681
(405482)	16.5	300.45359	25.52937	55.47963	2.59286	0.2388343	3.0725001303668	(405534)	15.6	269.40154	123.47005	17.89438	27.56406	0.2204949	3.2061839303682
(405483)	15.6	300.80086	173.97193	275.13889	12.57926	0.2303526	3.0575141303668	(405535)	17.7	322.95581	258.35651	149.11335	5.66709	0.2163806	2.3758697303682
(405484)	16.0	275.81237	196.46318	271.35840	25.50646	0.1834334	2.3425976303669	(405536)	18.0	275.62788	102.88541	357.22909	5.05125	0.0773489	2.4040695303682
(405485)	15.0	44.10683	266.89388	84.84776	13.50828	0.2751473	2.9880019303669	(405537)	18.2	334.24646	72.56695	344.48719	1.42912	0.2464035	2.3144705303682
(405486)	17.6	358.95723	322.92567	85.58749	5.60897	0.1714435	2.2582331303669	(405538)	17.7	125.13502	182.31987	41.01409	9.19203	0.2230689	2.5399736303683
(405487)	16.5	272.43285	17.57558	64.80478	5.41603	0.1578764	3.2068801303669	(405539)	16.9	196.80645	179.13789	14.05008	6.32491	0.1370989	2.4453251303683
(405488)	17.5	303.53613	358.01210	69.92860	7.48821	0.2150180	2.3086883303670	(405540)	17.7	118.16164	198.77937	6.02378	8.08217	0.1439459	2.5780788303683
(405489)	16.8	326.57970	312.47128	69.61147	2.39541	0.1005960	3.1722477303670	(405541)	17.3	210.41139	221.19652	314.50027	2.35047	0.1156512	2.4445593303683
(405490)	16.0	307.49107	357.82338	57.18086	9.28142	0.2671541	3.1071851303670	(405542)	17.6	148.12186	12.29505	187.61788	5.40064	0.0592190	2.5311445303684
(405491)	15.6	263.47332	146.83433	320.33086	14.00108	0.2345737	3.1904094303670	(405543)	17.2	215.82264	0.28685	151.09529	5.10754	0.0687417	2.4928791303684
(405492)	16.1	291.50101	32.03168	74.01366	11.35780	0.2653636	3.0875150303671	(405544)	18.0	245.46022	269.86856	233.90548	1.66407	0.1404711	2.4433291303684
(405493)	15.2	313.88591	129.55420	289.05343	22.55482	0.1770901	3.1239014303671	(405545)	16.9	93.44706	115.84550	145.48789	13.90506	0.2203904	2.5591215303684
(405494)	18.1	292.56234	17.51454	52.13802	5.58997	0.2066888	2.3390790303671	(405546)	17.5	90.94338	54.20001	192.91572	13.26338	0.2241847	2.5966558303685
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(405497)	15.8	295.30552	81.82228	28.31194	14.89666	0.2473676	3.1190423303672	(405549)	17.1	29.62046	237.64011	87.18636	8.39503	0.2124935	2.6148782303685
(405498)	16.5	311.65589	342.15957	98.40985	13.75911	0.1935390	3.0698481303672	(405550)	17.1	105.42879	104.65877	117.75873	4.69251	0.2096711	2.6071379303686
(405499)	17.3	291.44977	352.05154	97.77889	3.36283	0.1764670	2.3399950303673	(405551)	16.5	78.23354	199.41924	36.44560	13.13518	0.2449717	2.6430715303686
(405500)	18.1	291.00941	99.65852	351.89639	2.51942	0.1474811	2.3507748303673	(405552)	17.0	108.08955	171.34812	62.11514	13.93774	0.1319066	2.5899961303686
(405501)	16.1	7.60784	303.44321	97.46764	5.88058	0.2674429	3.0019364303673	(405553)	16.8	71.58271	43.82403	231.60192	12.25712	0.2313314	2.6244940303686
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(405503)	17.3	208.91156	25.52654	116.61580	7.96093	0.2001977	2.4177813303674	(405555)	17.5	105.91349	147.60079	156.36047	6.99862	0.1158828	2.4779866303687
(405504)	16.7	308.97764	248.84734	192.48451	3.06661	0.2489403	3.0991544303674	(405556)	16.4	89.36732	127.22305	141.50070	15.02579	0.0735681	2.6580997303687
(405505)	17.1	225.13969	58.43574	102.45318	7.39142	0.1588451	2.3825328303674	(405557)	16.8	27.19015	43.34106	297.58432	13.16853	0.2143521	2.6703521303687
(405506)	17.8	189.24915	64.42950	130.09086	4.78801	0.1385361	2.3825611303674	(405558)	16.8	165.98923	265.72394	287.93481	8.82369	0.1248345	2.6185368303687
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(405517)	17.6	107.02855	295.19262	335.09414	18.17043	0.0618916	1.9470528303677	(405569)	16.9	36.29234	148.88325	189.25315	6.57117	0.2926643	2.6918675303690
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 (405676) 17.4 296.67416 265.89898 176.60575 1.83917 0.1064106 2.8437972303717  
 (405677) 16.7 119.26155 269.98430 349.87957 3.90146 0.0261716 2.7990013303717  
 (405678) 16.7 14.69117 306.20879 51.85244 4.28296 0.1061169 2.8131225303718  
 (405679) 17.0 159.57004 325.06344 218.21960 9.04382 0.0248219 2.9324085303718  
 (405680) 16.7 66.50049 253.69379 91.05967 7.31323 0.0970543 2.7159196303718  
 (405681) 17.1 304.51921 235.18626 196.99867 3.95411 0.0519787 2.7932452303718  
 (405682) 16.5 333.27067 133.09666 282.09663 7.91360 0.1684867 2.7765237303718  
 (405683) 16.8 325.03007 2.88481 48.76626 3.50412 0.0592605 2.7897740303719  
 (405684) 17.1 325.52146 264.43829 119.15032 1.50038 0.1505535 2.8817381303719



(405685)	16.9	313.36706	350.55264	72.54792	5.40254	0.0585726	2.8065096303719	(405737)	15.7	14.65101	19.54521	292.56991	15.58927	0.0997602	3.1083431303732
(405686)	17.3	308.22097	154.93696	251.34684	1.01526	0.0607453	2.8742588303719	(405738)	16.1	304.58017	128.50001	297.84179	5.52812	0.0990110	2.9778452303732
(405687)	16.9	16.41271	331.53358	36.43490	7.26709	0.0178112	2.7887889303720	(405739)	16.0	349.55021	274.17649	108.89533	15.09326	0.1069286	2.9421695303732
(405688)	17.0	332.47705	50.72735	346.87238	1.71095	0.0276620	2.8314876303720	(405740)	16.0	177.87988	93.39189	104.11121	9.76231	0.0543550	3.0117016303732
(405689)	16.8	325.91822	147.43431	241.67051	5.22861	0.0987184	2.8698033303720	(405741)	15.9	285.27365	293.50188	119.53902	11.91069	0.0589421	3.1005922303733
(405690)	16.7	3.80232	305.86299	79.13400	4.13619	0.2467042	2.7689379303720	(405742)	16.2	359.26595	46.26447	293.07098	8.46731	0.0883685	3.0932351303733
(405691)	16.5	353.89381	130.28004	244.04791	13.71197	0.2187706	2.8347535303721	(405743)	15.9	181.35506	237.61761	299.77577	8.58218	0.0417690	3.0402164303733
(405692)	17.0	50.48170	111.07472	195.63697	4.49786	0.0666635	2.8325094303721	(405744)	16.0	331.69876	262.59550	104.00708	11.87204	0.1110846	3.0761622303733
(405693)	17.2	123.17062	179.94043	76.69772	2.86336	0.0271623	2.7994774303721	(405745)	18.0	291.09575	163.48906	298.64395	4.47829	0.0545718	2.1643667303734
(405694)	16.1	320.13062	344.55382	33.98640	12.55139	0.0650754	2.9220239303721	(405746)	16.4	315.87233	277.12387	109.47053	9.81268	0.0936862	3.0493301303734
(405695)	15.9	14.55088	262.27729	62.89388	13.36120	0.1758363	2.8756343303721	(405747)	17.8	2.84709	90.94690	275.94208	6.14077	0.0838597	2.1880846303734
(405696)	17.1	33.14675	225.23196	93.55977	3.19538	0.0612022	2.8479354303722	(405748)	15.9	153.65255	86.53172	107.19361	10.43177	0.0253693	3.0634355303734
(405697)	16.9	23.77612	204.06977	156.82584	2.10453	0.3366342	2.7528909303722	(405749)	16.2	283.63399	153.97207	278.64801	8.44598	0.0450340	3.0221772303735
(405698)	17.3	325.05929	224.02627	152.52235	2.37584	0.0944032	2.8989522303722	(405750)	17.0	23.01476	145.07153	209.36523	1.34918	0.0741393	2.9489397303735
(405699)	16.3	338.78234	132.96718	246.56056	14.16916	0.1534904	2.8401245303722	(405751)	16.8	226.32533	40.13426	90.23987	2.68978	0.0841362	3.0616369303735
(405700)	17.0	320.69165	347.87606	85.78166	11.85379	0.2520950	2.8041151303723	(405752)	16.1	357.69324	110.46042	283.59717	24.97548	0.3560981	2.7969823303735
(405701)	17.4	359.15322	232.07717	141.57471	4.09641	0.1045927	2.7652231303723	(405753)	16.1	271.19393	28.50526	77.84844	11.14611	0.0790883	2.9416776303736
(405702)	17.2	311.81303	304.72260	121.13548	4.83734	0.0824756	2.7846178303723	(405754)	15.8	300.62273	283.36822	75.94146	6.99629	0.1070277	3.1730944303736
(405703)	17.6	319.22702	7.48245	23.58279	2.19098	0.0738838	2.8705522303723	(405755)	16.1	161.59430	256.58386	302.33659	11.01989	0.1458295	3.0547795303736
(405704)	16.6	137.74464	86.62605	89.48624	4.55265	0.104597	3.0388707303724	(405756)	17.8	150.19395	178.08419	49.49890	3.40202	0.0793032	2.1924753303736
(405705)	17.1	309.60934	253.59365	179.69228	4.33973	0.0410005	2.7938874303724	(405757)	18.2	358.42501	76.89719	315.18780	3.07656	0.0919454	2.1634605303736
(405706)	16.6	18.33514	292.58050	69.99339	5.28584	0.0826900	2.7831999303724	(405758)	16.6	272.82525	67.32840	24.83766	3.68826	0.0732170	3.0080747303737
(405707)	17.4	6.42499	193.39488	186.80507	3.38988	0.2566885	2.7611159303724	(405759)	17.6	87.72831	201.05443	78.50168	5.51503	0.1349347	2.2225603303737
(405708)	15.9	204.06749	32.16864	120.73686	18.79909	0.2274073	3.1496309303725	(405760)	17.2	288.08915	142.49924	312.93306	6.57140	0.0817886	2.1911566303737
(405709)	17.4	293.22717	246.79424	179.04708	1.91418	0.0483900	2.8793301303725	(405761)	17.8	250.29941	162.82048	319.89385	6.65019	0.1372990	2.2141501303738
(405710)	17.0	325.40285	279.32347	139.88728	7.09433	0.0340733	2.7605111303725	(405762)	20.3	12.39772	87.62965	7.81804	5.77294	0.4480277	1.4806748303738
(405711)	17.4	299.47621	87.20899	351.51875	1.60552	0.0912175	2.8631046303725	(405763)	17.5	84.57464	9.93183	262.56727	8.50160	0.1012011	2.2295813303738
(405712)	17.0	20.94685	309.99024	38.09794	2.52053	0.0791603	2.8691206303725	(405764)	16.2	166.27996	78.04265	128.04750	10.72044	0.0493279	3.0125909303738
(405713)	16.3	222.42041	253.38366	249.87691	8.45261	0.0524206	2.9270306303726	(405765)	18.5	261.59915	54.14010	69.90578	2.08954	0.0977833	2.1896845303738
(405714)	16.8	280.26196	250.99924	214.83729	1.69381	0.2349790	2.8872320303726	(405766)	17.3	71.60726	202.12170	87.54633	4.44107	0.1732468	2.2243264303739
(405715)	16.6	259.35090	245.22981	247.32544	1.84858	0.1106447	2.8578194303726	(405767)	19.0	308.50163	196.92170	225.25065	1.73026	0.0904296	2.1918319303739
(405716)	16.9	1.08930	50.94082	315.64579	1.01840	0.0818127	2.8820646303726	(405768)	16.0	133.47301	246.60612	314.99242	10.40030	0.1394982	3.1829210303739
(405717)	17.2	241.04296	251.88050	231.69918	3.41829	0.1163169	2.9277160303727	(405769)	17.0	285.08564	68.18661	355.11462	2.31442	0.1492120	3.0152387303739
(405718)	16.8	29.60874	291.74050	58.91294	2.87814	0.0744964	2.8627457303727	(405770)	15.8	13.29084	228.37479	92.41072	9.93324	0.0373254	3.0597798303740
(405719)	15.9	301.67428	303.89474	132.65158	12.26248	0.1253320	2.8623942303727	(405771)	16.1	6.82373	53.92011	303.44692	9.11835	0.0302868	3.0550977303740
(405720)	16.2	310.44035	21.31020	49.22488	7.92961	0.1242363	2.8646678303727	(405772)	16.1	238.37588	12.24366	120.33431	10.96372	0.0522548	2.9900391303740
(405721)	16.7	34.20353	273.52558	73.99021	8.47084	0.2033506	2.8047361303728	(405773)	15.9	104.04577	300.15187	314.87385	8.61987	0.0537758	3.0671586303740
(405722)	16.0	220.40996	208.07940	282.70941	10.69192	0.1690505	3.0787938303728	(405774)	15.2	185.28231	223.28658	307.78409	15.71856	0.1209754	3.1373110303740
(405723)	16.7	347.85928	113.04340	283.78632	5.09517	0.0678661	2.8388664303728	(405775)	15.9	12.82196	36.54465	315.62225	9.71477	0.1043568	3.0036783303741
(405724)	16.8	155.60265	127.98822	92.58275	3.24041	0.0089531	2.8627426303728	(405776)	16.6	254.63127	16.30580	114.30147	23.69033	0.2664839	2.2149114303741
(405725)	15.7	45.26508	59.77389	245.97803	13.91106	0.1440022	2.8611777303728	(405777)	16.8	122.14427	292.09352	270.87556	25.35926	0.0478146	1.8372256303741
(405726)	16.6	24.19079	290.91177	46.67241	2.63447	0.0679254	2.8998829303729	(405778)	15.8	141.62170	285.92461	271.25710	14.12731	0.0977673	3.0647892303742
(405727)	16.4	351.08685	342.50023	56.78423	9.33176	0.2249623	2.8106653303729	(405779)	15.9	268.16942	67.21526	10.60854	11.79088	0.2297293	3.0703764303742
(405728)	18.5	301.83984	348.02464	79.90012	4.21106	0.0899821	2.1596839303729	(405780)	16.4	356.83901	62.20250	299.36933	11.25906	0.1547462	3.0006456303742
(405729)	18.6	28.17855	297.56635	58.41848	2.56613	0.1810794	2.1465838303729	(405781)	16.4	107.69232	99.99875	124.82677	10.21658	0.1421136	3.2027913303742
(405730)	15.6	235.00693	146.86878	336.63846	12.23692	0.3030700	3.1257545303730	(405782)	16.1	249.29937	187.36201	293.70425	7.82929	0.0324663	3.0151857303742
(405731)	18.3	312.50846	315.95105	102.87087	4.38924	0.1726428	2.1826113303730	(405783)	16.3	3.56961	235.59363	136.87455	10.66664	0.0903190	2.9884271303743
(405732)	16.1	73.67404	227.75395	76.59696	3.12288	0.0172704	2.9195695303730	(405784)	16.5	257.52502	335.82375	145.64894	10.64365	0.2669612	3.0000914303743
(405733)	16.1	224.15814	193.77274	293.12843	8.57656	0.0405692	3.0799489303730	(405785)	17.9	266.21686	176.92072	286.53831	4.24606	0.1077829	2.2363407303743
(405734)	17.7	22.03825	82.45880	297.72515	2.99992	0.1443490	2.1441557303731	(405786)	16.9	324.24152	219.20347	186.79905	1.55132	0.0494906	3.0053307303743
(405735)	15.8	275.63569	153.50792	293.02082	8.04332	0.1563255	2.9981485303731	(405787)	16.1	76.95492	157.04522	114.37918	13.17867	0.0532335	3.0720750303744
(405736)	16.6	266.15629	319.20787	123.18430	3.50107	0.1275410	3.0560505303731	(405788)	17.1	152.35625	271.36508	309.85084	7.57522	0.0762128	2.2184320303744



(405789)	17.8	353.27535	113.32342	275.60948	5.12064	0.0176966	2.1944090303744	(405841)	15.9	238.46782	306.99241	151.22909	17.06962	0.1853595	3.1924190303757
(405790)	16.3	322.44479	262.59396	129.50208	11.63604	0.0356462	3.0801772303744	(405842)	17.9	162.67285	40.09054	149.62310	3.31250	0.1605525	2.29223330303757
(405791)	16.2	341.56657	230.24043	128.06306	15.21067	0.0467616	3.1239996303745	(405843)	17.7	278.49635	310.67441	146.86732	2.05848	0.1034218	2.2379640303757
(405792)	16.1	149.23342	240.19358	307.55776	7.90841	0.0364516	3.1724962303745	(405844)	16.6	288.16626	324.06267	101.30929	5.78225	0.1992999	3.04055530303758
(405793)	18.5	350.42517	267.29303	112.42142	6.05840	0.2775567	2.1753982303745	(405845)	15.9	342.11926	259.07144	113.74966	10.29349	0.1115106	3.0685720303758
(405794)	16.1	265.78968	54.60811	29.72680	9.56489	0.2198892	3.0597654303745	(405846)	16.0	333.81750	26.16651	339.45935	10.48273	0.1146567	3.1911574303758
(405795)	16.9	341.27260	307.58261	154.52164	6.82779	0.2871082	2.7878766303745	(405847)	15.7	227.20650	225.27135	262.25243	5.09528	0.0873766	3.1344777303758
(405796)	18.2	272.85267	313.23178	141.77871	7.39776	0.1060088	2.2178051303746	(405848)	18.0	162.82138	332.59092	230.43494	0.95867	0.0457102	2.2612221303758
(405797)	17.5	271.21072	156.60043	310.01793	6.27216	0.0588429	2.2106747303746	(405849)	15.7	332.50814	232.75291	134.05138	12.74454	0.1919766	3.1595128303759
(405798)	16.1	203.45860	187.01566	324.38146	4.01410	0.0852939	3.1157810303746	(405850)	16.9	305.19456	144.39693	297.85508	2.51805	0.1092863	2.9710779303759
(405799)	16.5	283.31688	317.05517	110.06319	6.69231	0.1805169	3.0714653303746	(405851)	16.0	355.83521	39.26484	304.01206	8.05952	0.1422714	3.0520172303759
(405800)	16.3	16.47137	235.20058	124.08003	11.74511	0.1623161	2.9735173303747	(405852)	16.5	228.71965	146.80132	316.83424	6.65832	0.1082756	3.1765748303759
(405801)	16.0	357.08833	275.27062	98.89071	6.64666	0.0743152	2.8628095303747	(405853)	16.0	353.56011	247.95936	141.25217	13.40609	0.1183983	2.9771275303760
(405802)	15.9	313.50558	90.37283	319.32641	10.32112	0.0185751	3.0799574303747	(405854)	16.2	109.55671	102.25263	136.34131	16.62285	0.0507719	3.1631143303760
(405803)	15.2	243.57585	304.95612	148.03235	33.24627	0.0506953	3.2175661303747	(405855)	16.1	1.55696	195.12196	151.20489	5.79764	0.0719867	3.1322814303760
(405804)	16.2	311.85446	245.71423	110.41461	6.19871	0.1721318	3.2045949303748	(405856)	17.7	143.01012	104.37357	103.45827	5.05998	0.1831008	2.3194649303761
(405805)	16.4	210.58835	111.19870	46.37014	1.62350	0.1457975	3.0607206303748	(405857)	16.1	211.92905	162.72206	340.02965	11.92252	0.0623828	3.2065328303761
(405806)	18.0	308.56211	93.89449	347.59324	1.98410	0.0738527	2.2083417303748	(405858)	16.3	205.22801	29.20302	106.88481	5.79892	0.1082204	3.2321291303761
(405807)	17.9	257.43459	137.69916	336.01988	4.54787	0.0832639	2.2469293303748	(405859)	15.1	251.99968	315.25823	153.51393	28.16149	0.1932927	3.2022938303761
(405808)	15.9	56.91259	196.11932	76.50190	6.36235	0.0615183	3.2407989303749	(405860)	17.3	185.35233	154.80513	48.07268	7.02656	0.1243271	2.2410629303761
(405809)	15.9	164.34033	235.00698	333.07778	11.78335	0.0478343	3.1141072303749	(405861)	17.7	117.72508	282.99610	311.18234	1.32908	0.1782663	2.3299267303762
(405810)	18.5	348.47357	28.97836	5.25972	6.48944	0.1384864	2.1926822303749	(405862)	18.4	145.04189	223.36508	346.38499	1.20166	0.1453996	2.3138839303762
(405811)	16.1	10.00675	252.82449	114.65356	9.49384	0.0658292	3.0293877303749	(405863)	16.6	271.64024	145.75612	326.19580	5.49491	0.1382734	3.0653060303762
(405812)	16.5	160.11196	66.28267	115.02326	10.18156	0.0431204	3.1787288303750	(405864)	16.1	140.85121	59.69984	170.85590	12.27220	0.0612850	3.2162618303762
(405813)	16.7	267.48115	314.85399	140.95194	6.53018	0.0777517	3.0424036303750	(405865)	15.3	329.99410	49.99976	5.10224	23.75104	0.1897392	3.0955367303763
(405814)	16.5	98.25181	186.55148	77.29429	2.86140	0.0612764	3.0776829303750	(405866)	16.6	203.88554	181.75969	333.05328	3.85536	0.1071875	3.1568513303763
(405815)	15.6	332.16108	38.60270	315.48827	16.28929	0.0295677	3.1929223303750	(405867)	15.8	38.53787	353.00821	349.29651	17.81466	0.2331166	3.1404840303763
(405816)	16.0	211.52041	339.07545	153.65136	14.31860	0.0433829	3.2077467303751	(405868)	16.1	340.79694	31.78233	342.69549	9.34516	0.1114702	3.1202099303763
(405817)	15.6	248.52262	293.36864	163.66980	26.54648	0.2340561	3.0998951303751	(405869)	18.0	183.76138	29.95704	140.50572	7.46355	0.0619319	2.2699428303764
(405818)	16.2	310.93737	258.52908	126.64713	12.40273	0.0710258	3.1371563303751	(405870)	17.3	231.47187	312.51788	180.82430	6.55189	0.1296359	2.2747014303764
(405819)	16.5	150.25060	49.81906	152.25250	10.22993	0.0553934	3.1706672303751	(405871)	17.8	245.91879	295.76826	185.27913	6.46697	0.0313017	2.2799116303764
(405820)	18.1	133.96239	239.57896	322.03144	4.62724	0.1217969	2.3095510303752	(405872)	16.2	203.75498	35.86907	147.58381	6.10233	0.0973795	3.1059167303764
(405821)	16.3	264.09695	313.68252	131.96696	11.82635	0.0672520	3.1144491303752	(405873)	16.3	13.19367	7.46608	0.33794	9.40123	0.0803355	3.1181480303765
(405822)	17.3	125.86839	258.52367	328.69687	7.49025	0.0928016	2.2995508303752	(405874)	17.6	145.41444	242.52515	321.79745	22.63681	0.1912527	2.3240832303765
(405823)	18.2	112.07928	263.01899	314.54699	1.58787	0.1593626	2.3512074303752	(405875)	18.0	121.42341	224.13007	359.39146	2.10923	0.1786716	2.3512364303765
(405824)	16.9	250.94667	42.07124	88.63970	2.88960	0.1656243	3.0109307303753	(405876)	16.6	241.37905	323.70764	177.75049	10.31172	0.0860439	3.1313736303765
(405825)	16.7	207.29175	40.23915	98.61125	2.45003	0.1143223	3.1546059303753	(405877)	17.6	52.44866	326.38188	359.93012	6.56773	0.1298138	2.2540327303766
(405826)	18.0	198.48213	260.21487	268.50070	1.17997	0.0490980	2.2552781303753	(405878)	17.6	79.37609	200.57034	48.13074	3.03746	0.1882047	2.3728589303766
(405827)	15.8	245.46958	328.94209	160.95171	16.74416	0.1569569	3.0923131303753	(405879)	17.1	248.93275	138.22345	354.81637	8.50255	0.0683198	2.2471814303766
(405828)	16.4	268.21107	144.85822	316.75249	9.40968	0.1222446	3.0657276303754	(405880)	18.0	72.22013	83.75938	167.66329	2.75589	0.1921127	2.3936618303766
(405829)	17.6	165.72300	213.15354	331.39785	9.04712	0.2008829	2.3029859303754	(405881)	17.9	145.67703	206.51702	356.21806	3.21003	0.1649285	2.3329853303767
(405830)	15.9	262.23943	137.34304	291.47345	8.84135	0.0742180	3.1585529303754	(405882)	16.2	331.75638	57.18963	344.35354	8.52114	0.0372380	3.1010005303767
(405831)	16.0	233.29545	151.00436	340.56813	8.86148	0.0481664	3.0958523303754	(405883)	16.6	143.11754	83.72128	136.82546	3.88072	0.0596141	3.1766856303767
(405832)	17.5	104.20920	130.34027	149.93933	7.05474	0.1054824	2.2239190303755	(405884)	17.6	117.08059	227.05513	7.01644	22.66870	0.1991361	2.3511482303767
(405833)	17.5	148.16517	305.74432	258.46187	2.29635	0.1204096	2.2882643303755	(405885)	18.1	109.26590	106.35240	144.70147	5.95196	0.1185229	2.3097313303768
(405834)	17.8	147.32696	51.07379	156.86752	5.47058	0.1931889	2.3013023303755	(405886)	16.6	209.73013	7.82701	137.59334	5.25323	0.0588055	3.1245530303768
(405835)	15.4	328.00580	45.59991	320.63476	11.66059	0.0359937	3.1932002303755	(405887)	16.2	228.26701	122.77403	354.28718	13.57270	0.0782076	3.2292926303768
(405836)	18.0	250.21465	5.76396	122.46837	2.40826	0.0640973	2.2219741303756	(405888)	15.9	277.15761	74.24523	33.02140	24.00376	0.1710981	3.1414180303768
(405837)	16.0	234.13336	174.14518	332.42605	8.59511	0.0379100	3.0653404303756	(405889)	15.5	162.25549	238.70419	17.47655	10.92437	0.1252053	3.1272362303768
(405838)	16.1	322.23253	80.93186	312.81199	8.57034	0.0572131	3.1273488303756	(405890)	17.7	80.12399	190.48537	77.15269	2.23630	0.1636162	2.3892381303769
(405839)	18.0	327.10494	109.71075	313.43436	3.26059	0.0869009	2.2117526303756	(405891)	17.2	149.75304	229.64358	337.93768	22.29465	0.2479776	2.3383857303769
(405840)	16.5	198.92745	127.30384	43.31005	1.70144	0.1150938	3.1080589303757	(405892)	16.0	221.44896	294.06171	201.43110	3.89995	0.1471992	3.1607649303769



(405893)	17.8	101.37391	227.17329	36.43527	7.62301	0.1120950	2.3515550303769	(405945)	17.2	40.44191	285.01356	12.76503	7.24498	0.1115171	2.6023891303783
(405894)	17.3	28.08911	135.37561	202.13860	6.53934	0.1337182	2.3607773303770	(405946)	18.4	45.58184	309.88832	16.53425	3.69882	0.1582008	2.5246191303783
(405895)	16.8	333.28361	84.30275	30.16945	22.96141	0.2773189	2.1407348303770	(405947)	17.9	335.63626	42.76147	3.95417	5.08137	0.2488573	2.5652051303783
(405896)	16.1	282.64748	95.08986	358.87501	11.42953	0.1277529	3.1302641303770	(405948)	17.1	47.83861	317.82410	344.96258	4.06596	0.1433494	2.5887456303783
(405897)	17.2	40.09090	207.26393	111.19727	5.23523	0.2088041	2.3969370303771	(405949)	17.8	216.72372	317.59309	193.04060	1.38920	0.1033781	2.5970589303784
(405898)	18.0	104.79583	231.26008	30.23206	1.73439	0.1717245	2.3520901303771	(405950)	17.7	326.89426	55.35292	12.13144	11.20694	0.1621944	2.5401433303784
(405899)	18.0	108.82749	226.38445	37.33825	7.41210	0.0856714	2.3160165303771	(405951)	17.0	24.45115	358.85077	354.19267	15.04821	0.0673142	2.5228017303784
(405900)	17.5	74.30917	191.48383	98.58678	3.49306	0.1903318	2.3722125303771	(405952)	17.6	20.09070	109.97145	240.06853	6.08969	0.1792270	2.5359256303784
(405901)	18.0	94.56587	111.72411	130.70096	3.30113	0.1361888	2.4155277303772	(405953)	17.7	20.41871	83.85928	276.89875	3.15973	0.2686805	2.5217123303785
(405902)	17.3	144.74638	29.54683	172.76024	5.89877	0.1225736	2.3561534303772	(405954)	18.2	55.83494	160.71471	188.46202	22.40357	0.0765959	2.5958997303785
(405903)	18.2	70.49401	108.68900	182.32673	3.58621	0.1587061	2.3841733303772	(405955)	16.7	358.10982	303.58081	67.38419	15.80142	0.1357090	2.5362617303785
(405904)	17.7	126.88166	154.55038	85.04479	7.91453	0.0733607	2.3520493303772	(405956)	17.4	350.28916	129.37079	262.47789	3.26043	0.2633058	2.5532284303785
(405905)	17.7	119.11192	128.40422	83.81869	8.07323	0.1332642	2.4102762303773	(405957)	16.3	352.28411	341.50458	11.98180	13.25215	0.0520607	2.6135936303786
(405906)	18.0	91.93124	42.17064	230.42656	0.69510	0.1946613	2.3813009303773	(405958)	17.0	338.98012	204.83861	184.33493	16.92264	0.1265616	2.5694432303786
(405907)	17.9	193.68842	315.49306	215.46976	4.18459	0.1035883	2.3371808303773	(405959)	17.6	356.74932	23.59579	345.38629	6.29018	0.2151744	2.5695445303786
(405908)	17.6	179.33160	104.34430	56.73465	6.92888	0.0891243	2.3851474303773	(405960)	17.9	339.06137	166.66394	223.48063	4.83498	0.2583973	2.5708796303787
(405909)	15.5	304.59546	344.91080	115.47960	17.42143	0.1514461	3.1941077303773	(405961)	17.5	27.50549	338.12030	18.47282	8.86753	0.1274382	2.5138235303787
(405910)	15.4	172.83489	184.12782	63.72430	18.32828	0.0595068	3.1987298303774	(405962)	16.1	299.95290	295.48889	80.75915	10.07478	0.2220156	2.7153163303787
(405911)	17.6	68.77629	178.06182	123.49819	3.41331	0.1998406	2.3879156303774	(405963)	17.4	5.54517	222.05468	133.08768	5.19611	0.2228857	2.5659241303788
(405912)	17.0	322.39608	36.25781	19.85798	5.39535	0.1264925	3.0956375303774	(405964)	17.3	337.73411	191.92716	194.44973	13.39051	0.1044247	2.6063587303788
(405913)	17.8	96.93060	256.50369	341.08247	1.95717	0.1515015	2.4159130303774	(405965)	17.4	340.40936	182.55867	184.50120	5.73788	0.0568897	2.6426512303788
(405914)	18.0	72.15393	271.60740	356.51677	5.98836	0.1634369	2.3439820303775	(405966)	17.5	30.47750	142.88068	187.10731	12.78859	0.2708412	2.5548280303788
(405915)	18.2	43.89498	289.18969	37.05752	2.59241	0.0741562	2.3394066303775	(405967)	16.5	140.60588	198.89480	20.12965	14.04858	0.1526970	2.5721335303789
(405916)	18.0	145.30861	83.97187	151.98906	4.88695	0.1107885	2.3381716303775	(405968)	17.7	296.27070	51.10165	21.84113	3.95201	0.0808772	2.5844918303789
(405917)	17.5	111.74368	7.16439	231.50708	5.41945	0.1419223	2.3903409303775	(405969)	17.7	276.01380	248.65912	189.91096	4.58188	0.1511984	2.6348262303789
(405918)	15.6	349.56047	8.51121	60.61773	10.22614	0.0640983	3.1649483303775	(405970)	17.1	202.06345	180.47989	332.50701	1.75259	0.1395279	2.6406461303789
(405919)	17.4	319.22502	321.27695	76.12710	7.49655	0.1431422	2.3972484303776	(405971)	16.8	17.95428	104.51637	183.74189	10.98010	0.1843587	2.6616980303790
(405920)	17.5	253.72916	13.62947	93.61343	5.40935	0.1098553	2.3505356303776	(405972)	17.2	8.33098	352.39020	21.90784	4.78816	0.1951843	2.5506879303790
(405921)	18.0	50.79466	167.31798	151.04405	1.60014	0.2015189	2.3942990303776	(405973)	16.9	346.28844	351.69757	34.78544	13.80565	0.2319656	2.5588625303791
(405922)	17.5	42.40563	142.41307	159.48451	2.71819	0.2069128	2.4475970303776	(405974)	17.9	353.88543	41.03155	342.17306	18.96593	0.1068756	1.9530864303791
(405923)	17.9	84.53204	102.28692	146.98718	3.80895	0.1941413	2.4309869303777	(405975)	17.1	7.30793	23.59869	340.12785	18.53848	0.2425309	2.5524907303791
(405924)	17.6	80.22551	158.46472	106.91514	10.58105	0.2466015	2.4056859303777	(405976)	17.8	13.08839	358.37143	354.06694	3.58503	0.1615819	2.5616601303791
(405925)	18.0	99.30792	129.81149	134.35660	5.85957	0.0772028	2.3760140303777	(405977)	17.5	287.29444	146.01889	290.66270	3.25126	0.1909107	2.5945932303792
(405926)	17.9	58.96149	0.94743	281.70607	1.35278	0.1756186	2.4186211303777	(405978)	17.4	223.02037	135.89631	16.02896	22.29413	0.0421796	1.9371056303792
(405927)	18.2	15.18036	212.04738	146.00166	2.33759	0.2574576	2.5247084303777	(405979)	17.4	8.52689	248.87357	94.50846	5.41748	0.2252225	2.5808549303792
(405928)	14.4	2.42053	275.53703	92.51280	10.23830	0.2680290	3.9725530303778	(405980)	16.8	300.94163	267.30351	184.45790	12.65418	0.1575263	2.4799959303792
(405929)	17.4	6.37470	2.74883	347.40071	13.04877	0.2640255	2.5630646303778	(405981)	18.0	13.70131	10.06423	354.75083	0.81838	0.2142763	2.5380887303793
(405930)	15.4	8.39134	207.36746	146.92901	3.49327	0.2340633	3.9680706303778	(405982)	16.6	203.74037	116.67389	17.09165	13.12031	0.1601192	2.7123233303793
(405931)	15.1	1.82572	348.79432	10.46806	2.48347	0.2310037	3.9730779303779	(405983)	17.8	324.89922	265.09788	172.79229	21.81719	0.1061213	1.9003048303793
(405932)	16.7	6.63606	9.16721	349.11978	13.37914	0.0423667	2.5194630303779	(405984)	18.1	0.40258	81.75627	298.43123	3.16638	0.3285100	2.5443442303794
(405933)	17.5	52.31865	124.25523	174.07172	10.74239	0.1448031	2.5529802303779	(405985)	16.7	193.44012	153.17216	21.33825	6.25422	0.0734799	2.5975142303794
(405934)	18.0	328.42529	66.40261	353.76519	20.26805	0.0971480	1.9300738303780	(405986)	17.5	295.13755	301.37862	152.04810	3.67659	0.1826445	2.5614888303794
(405935)	17.0	323.01647	347.38519	73.34172	5.90025	0.1801388	2.5375468303780	(405987)	17.1	266.01574	101.32521	15.99265	14.99586	0.0990136	2.5796678303794
(405936)	17.7	39.54405	146.71858	177.61007	6.41445	0.2075748	2.5487451303780	(405988)	16.5	298.55447	20.27221	56.01644	14.30827	0.1391962	2.6214231303795
(405937)	17.2	1.26743	4.92920	347.41631	13.55066	0.2260569	2.5815935303780	(405989)	16.7	11.54119	11.56084	340.43375	15.24901	0.1548993	2.5692070303795
(405938)	17.6	42.52598	132.66885	187.09667	8.95960	0.1485775	2.5543088303781	(405990)	18.2	347.23852	36.16802	346.18691	3.70731	0.2245766	2.5693791303795
(405939)	17.8	325.60681	229.13639	193.24155	5.23720	0.2199929	2.5684470303781	(405991)	16.9	37.94109	44.67276	217.62328	5.46257	0.1289629	2.7153369303795
(405940)	17.4	251.70011	276.96066	194.96694	9.78067	0.0918021	2.6213197303781	(405992)	17.6	325.84924	82.39805	348.74951	4.22108	0.2433501	2.5570096303796
(405941)	18.0	319.80332	233.50177	181.86836	7.38353	0.1858283	2.5942767303781	(405993)	17.6	292.81062	63.87214	29.30806	13.36896	0.2353101	2.5986090303796
(405942)	17.8	357.32418	351.43328	20.63873	10.33542	0.2134551	2.5737874303782	(405994)	16.7	84.62709	234.74619	17.79378	30.02353	0.1890142	2.5963998303796
(405943)	15.8	18.21687	318.72665	33.41144	3.22431	0.2326608	3.9764148303782	(405995)	16.6	351.97493	140.40826	177.94852	13.62944	0.1203772	2.6964525303796
(405944)	18.1	21.40892	172.94639	184.61029	17.26641	0.2696203	2.5266621303782	(405996)	16.6	309.80043	45.31611	15.12504	22.13920	0.0872701	2.6013745303797



(405997)	17.8	287.99901	165.80858	272.67639	2.68335	0.1325708	2.6245053303797	(406049)	17.5	25.42917	334.97911	345.66457	5.52796	0.2678834	2.5901244303811
(405998)	15.2	18.37288	260.49347	94.12551	3.70292	0.2290347	3.9463295303797	(406050)	17.0	348.97038	338.80773	59.16787	12.73255	0.1800598	2.5879948303811
(405999)	16.6	285.73750	38.48386	42.04976	13.18066	0.1637560	2.6314145303797	(406051)	17.4	62.83915	289.50379	16.93519	5.91639	0.1053499	2.5661843303811
(406000)	16.5	325.58786	1.13165	34.07500	13.65880	0.1504872	2.6256808303797	(406052)	18.0	320.70387	77.14615	2.37699	3.01450	0.2300838	2.5641203303812
(406001)	17.6	278.12036	268.55741	177.24183	7.22204	0.2792066	2.6648586303798	(406053)	17.4	359.62174	320.50236	15.20149	2.15011	0.0994328	2.6732452303812
(406002)	16.8	333.07951	13.47179	41.52796	15.05076	0.2520451	2.5867773303798	(406054)	17.9	4.38599	349.04685	32.73232	6.35790	0.1473829	2.5583918303812
(406003)	17.6	13.20017	196.86701	179.87922	5.12538	0.2979730	2.5503703303798	(406055)	17.9	341.30131	8.16325	14.88114	0.98350	0.1350306	2.6141820303812
(406004)	17.4	45.00762	298.63425	35.65321	10.96192	0.1310600	2.5590911303799	(406056)	17.5	325.01315	350.28092	42.10894	3.24441	0.1156495	2.6395299303813
(406005)	17.1	120.15105	120.03208	143.94481	3.64102	0.0161894	2.5419898303799	(406057)	18.3	350.15784	11.00753	38.68425	5.15042	0.2706093	2.5490050303813
(406006)	17.1	41.69736	324.89763	3.63740	15.29584	0.1535588	2.5489176303799	(406058)	17.7	26.78665	289.46196	36.11973	2.57995	0.0804183	2.6404109303813
(406007)	17.6	317.75596	180.99712	237.92318	3.20817	0.2124749	2.6052375303799	(406059)	17.5	265.86439	207.35158	264.52993	4.78573	0.0993574	2.6006970303813
(406008)	17.2	0.13953	26.54559	355.72787	15.09419	0.1908051	2.5587032303800	(406060)	17.5	0.94641	291.11384	70.68565	3.42455	0.1548935	2.6323184303814
(406009)	16.8	268.74694	221.56064	225.04906	7.73903	0.1190661	2.7049252303800	(406061)	17.0	355.61637	323.29981	50.05542	12.68931	0.1889575	2.6289827303814
(406010)	17.1	14.85501	95.77972	192.23970	13.71411	0.0994766	2.7059616303800	(406062)	17.7	331.21806	56.98475	357.72458	4.23224	0.1754349	2.5870723303814
(406011)	17.3	334.49505	238.91796	174.10728	23.00906	0.0837624	1.9506792303800	(406063)	18.2	325.18937	95.35818	337.98330	3.63086	0.2499892	2.5669836303814
(406012)	17.1	7.26362	153.37922	182.51913	12.40872	0.2825150	2.6051778303801	(406064)	17.7	340.55720	34.66703	5.18883	4.89922	0.2193207	2.5833004303815
(406013)	17.6	35.82474	120.91699	203.14959	3.82199	0.2156554	2.5823109303801	(406065)	17.6	53.68486	313.23699	353.26643	4.51316	0.2222707	2.5607335303815
(406014)	17.7	328.05042	35.78794	35.48404	4.58569	0.2490609	2.5715267303801	(406066)	17.5	0.04513	266.78423	104.16593	3.51082	0.0511986	2.6098586303815
(406015)	16.5	26.56067	53.62842	226.10285	8.67290	0.1817182	2.7373953303801	(406067)	16.8	154.07792	182.98838	31.81007	12.15269	0.1235389	2.6311676303815
(406016)	17.9	333.95102	48.87970	330.92421	1.22069	0.1500143	2.6486478303802	(406068)	17.3	32.43740	39.26130	295.74766	2.61922	0.0959665	2.6006704303816
(406017)	17.3	51.47564	283.78422	35.05074	3.15323	0.0932322	2.6029555303802	(406069)	17.4	4.15678	274.89540	68.89042	3.54271	0.1539976	2.6321886303816
(406018)	16.5	214.61490	102.41973	46.44184	24.28794	0.1737240	2.7012618303802	(406070)	18.0	5.24121	288.83200	90.30974	2.94868	0.1851401	2.5612271303816
(406019)	16.3	339.23440	352.16366	45.02699	13.84762	0.0783060	2.6089635303802	(406071)	17.4	341.89525	189.04791	166.88537	3.03237	0.1207830	2.6683083303816
(406020)	17.3	341.24173	33.50687	43.57113	5.48018	0.1207324	2.5257305303803	(406072)	17.3	21.77505	291.12407	65.45929	9.58574	0.1833301	2.5770826303817
(406021)	17.3	334.21709	205.83140	201.74369	5.37531	0.1882965	2.6067605303803	(406073)	17.7	57.72528	116.73384	180.82336	1.70240	0.1345517	2.5889061303817
(406022)	16.4	8.97587	105.80828	232.18807	11.21604	0.2148137	2.6189441303803	(406074)	17.1	348.68793	312.72168	33.09211	4.41025	0.0504844	2.6774624303817
(406023)	17.7	349.12443	145.00551	238.58982	4.74143	0.2478210	2.5573069303804	(406075)	16.7	197.95304	93.04892	34.94140	13.20454	0.0289940	2.7241403303817
(406024)	17.3	35.00812	201.43710	149.51970	3.81393	0.2080505	2.5216329303804	(406076)	17.1	254.40045	79.34858	34.93546	12.71253	0.1213744	2.6336739303817
(406025)	17.6	359.52749	213.58112	150.55502	5.28678	0.2125822	2.5779969303804	(406077)	17.2	271.81701	94.43423	341.98807	3.83881	0.0586508	2.6737477303818
(406026)	17.6	11.76485	321.17702	39.36321	19.71145	0.2341741	2.5475708303804	(406078)	17.7	307.51952	175.34488	280.68817	2.23445	0.1715581	2.5674002303818
(406027)	17.1	19.64910	280.52701	60.46352	12.23840	0.2972946	2.5681416303805	(406079)	17.6	332.99286	27.44843	355.01977	1.65616	0.1057654	2.6415938303818
(406028)	17.5	327.83564	86.39704	347.91386	7.73656	0.2972465	2.5501616303805	(406080)	17.5	21.18912	157.07721	189.57836	3.32350	0.1915363	2.5790244303818
(406029)	17.1	319.00693	77.83654	315.53450	3.09039	0.0996128	2.6640282303805	(406081)	17.6	0.09986	61.63015	303.84454	2.39341	0.2925877	2.5798579303819
(406030)	16.9	287.40866	179.07671	242.16571	6.21352	0.0791380	2.6846656303805	(406082)	17.5	353.39197	4.06614	26.23545	7.55709	0.1657137	2.5930694303819
(406031)	16.8	25.66544	322.13626	24.14373	14.26871	0.1959463	2.5713162303806	(406083)	16.0	308.22982	266.14566	95.81041	14.97353	0.1155800	2.7423249303819
(406032)	17.0	250.67349	235.56192	239.01999	7.07323	0.1697576	2.6904089303806	(406084)	16.6	247.38452	92.35488	33.94604	21.91025	0.1281781	2.6574684303820
(406033)	17.6	21.89665	83.73408	271.83845	2.08608	0.1977394	2.5732305303806	(406085)	16.7	4.08407	342.98981	60.51133	14.12945	0.1797680	2.5208126303820
(406034)	16.9	73.96792	287.92292	39.45235	12.58583	0.1052379	2.5297373303806	(406086)	16.6	313.20237	0.92896	66.50887	13.35954	0.1561693	2.6137910303820
(406035)	17.3	268.74384	226.73735	245.45528	2.98105	0.0978405	2.6256990303807	(406087)	16.3	70.56011	17.99763	266.47090	10.92694	0.2358025	2.5447738303820
(406036)	17.4	348.97404	224.59802	173.96729	4.34997	0.2294667	2.5687226303807	(406088)	16.5	336.22466	147.70598	270.74801	12.05698	0.1227841	2.5424844303821
(406037)	17.3	17.25174	346.98359	354.39981	4.68484	0.2358742	2.5842872303807	(406089)	17.7	11.82132	147.72291	193.76450	1.43243	0.0886016	2.6276509303821
(406038)	17.7	10.36886	263.00024	97.33092	1.65588	0.1155053	2.5676875303807	(406090)	16.7	321.02425	91.00394	316.78386	10.42574	0.1856047	2.6197651303821
(406039)	17.4	0.99308	47.32335	336.47728	4.22184	0.3006415	2.5631166303808	(406091)	17.2	290.43226	226.11781	206.30115	5.73931	0.0525719	2.6266422303822
(406040)	16.3	348.87955	324.60122	43.22515	15.23343	0.0569782	2.6400904303808	(406092)	17.6	325.68669	201.67100	200.89873	2.37503	0.0718221	2.6129101303822
(406041)	15.8	229.99764	106.52440	22.53102	18.88994	0.1742948	2.6607798303808	(406093)	18.0	348.54219	171.50391	217.55421	3.65555	0.1861869	2.5774300303822
(406042)	16.5	20.98239	245.71760	97.37766	15.98987	0.2692187	2.5695502303809	(406094)	16.4	11.30892	330.15159	38.06551	14.40386	0.1813733	2.5937361303822
(406043)	16.9	268.48258	346.93498	128.20032	12.50029	0.1201757	2.6274693303809	(406095)	17.9	279.24260	53.90552	45.11973	4.11606	0.0589108	2.6228602303823
(406044)	17.9	338.12516	114.62135	276.78764	3.65736	0.1435056	2.6153081303809	(406096)	17.3	241.40087	130.48929	329.22276	3.67500	0.0778207	2.7292695303823
(406045)	15.0	23.00245	271.87643	101.76692	4.19437	0.2411510	3.9748920303810	(406097)	17.7	303.75803	90.47911	356.69962	3.70590	0.2456718	2.6035945303823
(406046)	17.2	319.31980	317.28134	82.92145	3.15398	0.2173447	2.6383614303810	(406098)	17.2	347.76963	292.55212	61.70732	3.45720	0.1251971	2.6838744303823
(406047)	17.4	333.25051	333.22198	58.77680	7.48924	0.2580974	2.6241301303810	(406099)	17.1	319.35488	223.50064	222.51789	11.95690	0.2441109	2.5848736303824
(406048)	16.5	356.15473	320.70937	57.57575	13.10507	0.2053953	2.5967490303810	(406100)	17.7	302.04983	189.13592	252.02876	4.02673	0.1812204	2.6334678303824



(406101)	17.8	21.56854	176.61003	173.71475	2.24630	0.1231370	2.6041363303824	(406153)	17.9	316.60796	164.57491	244.24436	4.29217	0.2127068	2.6773486303838
(406102)	17.6	349.68845	129.98716	274.05463	2.64789	0.2757604	2.5687927303824	(406154)	17.7	357.72440	141.35254	255.70416	2.44501	0.2299544	2.5714248303839
(406103)	17.7	327.50980	175.56778	248.64064	1.46331	0.3051476	2.6020896303825	(406155)	16.7	341.38018	271.35972	133.99660	13.63522	0.2571431	2.6001184303839
(406104)	17.5	346.44571	163.68440	228.93635	2.85332	0.1527735	2.6106112303825	(406156)	16.6	234.99291	203.74298	265.85233	8.96643	0.1050449	2.7685682303839
(406105)	17.2	339.83188	173.86263	239.25426	3.48038	0.2423752	2.5809509303825	(406157)	17.9	317.39102	82.49128	340.97546	2.26395	0.1146362	2.5807077303839
(406106)	17.3	355.73990	335.37888	32.09524	4.67597	0.0691513	2.6290875303826	(406158)	16.8	349.75459	314.14912	73.51512	18.21346	0.2017828	2.6096673303840
(406107)	16.7	216.93469	247.81017	237.74420	3.15552	0.2665815	2.7911720303826	(406159)	16.7	310.16586	21.53398	56.63386	14.97183	0.2300665	2.6355529303840
(406108)	16.9	6.41004	127.73983	234.05293	4.55141	0.1783502	2.6079308303826	(406160)	18.1	348.50399	71.08485	299.85061	2.19878	0.0705529	2.6395573303840
(406109)	17.5	340.50141	339.10447	72.09035	2.25958	0.1071990	2.5891907303827	(406161)	17.0	12.60177	299.77048	61.78567	12.53903	0.2934626	2.5772591303840
(406110)	16.6	248.87939	63.58509	55.42409	15.73985	0.1030630	2.6839583303827	(406162)	17.6	330.50175	260.47058	120.14973	4.90228	0.1042858	2.6919003303841
(406111)	17.2	358.11435	333.45943	38.21889	3.52278	0.1278114	2.6396453303827	(406163)	17.3	63.60293	133.43521	197.66269	6.20712	0.1683719	2.5432140303841
(406112)	16.3	335.81799	353.08356	61.10322	15.31820	0.0822188	2.5814445303828	(406164)	17.4	16.51280	277.49464	95.25469	6.30261	0.2101522	2.5643046303841
(406113)	16.7	350.67056	150.53866	241.64240	8.39015	0.0966812	2.5892777303828	(406165)	17.4	22.60562	160.47543	184.89301	5.66905	0.2789026	2.5960574303842
(406114)	17.9	288.38457	5.76385	82.41986	3.60157	0.1773355	2.6458931303828	(406166)	16.8	27.74828	106.71930	210.17916	14.23945	0.0855456	2.6618354303842
(406115)	16.2	277.90076	0.15227	75.83624	13.77245	0.2504437	2.7304883303828	(406167)	16.1	75.90398	19.29912	258.72158	13.35473	0.0628830	2.7097668303842
(406116)	17.6	7.72697	85.40197	288.11789	2.22015	0.1544026	2.5984401303829	(406168)	17.4	317.74009	43.15796	24.48116	2.46226	0.1318463	2.6339240303842
(406117)	16.3	16.31348	112.19265	248.90291	11.77899	0.2169126	2.6004627303829	(406169)	17.7	355.95160	146.99676	251.38623	4.11995	0.1944762	2.5874393303842
(406118)	17.1	61.55998	312.35540	328.82711	5.07726	0.0508000	2.7102225303829	(406170)	16.8	197.16114	240.94357	255.28350	3.77310	0.0713022	2.7987231303843
(406119)	17.1	331.40732	43.47123	321.03140	4.99741	0.0290416	2.7369280303830	(406171)	17.6	341.69351	125.36332	281.06323	3.52810	0.2093573	2.5970304303843
(406120)	17.6	296.26565	277.92989	134.34878	2.02080	0.0555018	2.7145894303830	(406172)	16.8	180.66861	277.65854	242.01483	7.83780	0.1502784	2.7720437303843
(406121)	17.1	312.93917	343.88707	90.16454	4.35252	0.1097004	2.6181315303830	(406173)	17.7	28.46883	66.90809	273.35015	1.34085	0.1937313	2.5948797303843
(406122)	17.6	299.02169	178.27023	260.16022	2.00601	0.1058656	2.6533039303830	(406174)	17.3	270.25027	65.72647	45.26887	4.41075	0.0359731	2.6303122303844
(406123)	17.7	13.69509	359.08762	9.56185	0.86473	0.1808268	2.5933876303831	(406175)	17.6	294.82254	218.51060	240.78239	2.76426	0.2276339	2.6274915303844
(406124)	17.4	13.07278	261.83807	118.63305	0.93700	0.1956313	2.5690738303831	(406176)	17.1	333.22355	140.22215	251.16119	10.44755	0.1608854	2.6543818303844
(406125)	17.8	7.67291	142.54688	231.39966	3.86384	0.1762863	2.5956980303831	(406177)	17.5	301.75120	82.81721	79.83163	6.29652	0.12416703	2.6178847303844
(406126)	16.8	0.17838	183.04789	223.06796	2.62640	0.2085173	2.5610435303831	(406178)	17.4	232.18326	49.15109	96.16485	4.58631	0.1158558	2.6685560303845
(406127)	17.5	276.45957	35.73125	37.12734	5.82908	0.0942354	2.7082406303832	(406179)	17.4	9.99026	264.11760	81.04109	2.95941	0.2146738	2.6454485303845
(406128)	17.3	30.04854	287.17930	33.14590	2.63235	0.1393646	2.6495416303832	(406180)	17.9	345.43064	154.25158	239.39132	4.68568	0.1584175	2.6187752303845
(406129)	16.9	339.20089	52.04331	26.72518	5.73718	0.2144570	2.5522567303832	(406181)	16.6	266.77101	307.36372	157.02124	5.05146	0.1850963	2.6662313303845
(406130)	17.2	352.77881	298.58827	78.69586	6.92259	0.1889868	2.6118077303833	(406182)	17.4	330.66249	304.97860	103.81043	5.24775	0.2543299	2.6044734303846
(406131)	16.3	333.96905	340.84017	77.09607	15.21875	0.0784439	2.6291090303833	(406183)	17.3	13.08734	278.85054	92.64158	6.88404	0.3228400	2.5500154303846
(406132)	16.8	348.57243	339.89196	62.20135	15.67873	0.1055151	2.6040145303833	(406184)	16.8	314.68561	337.61280	71.64035	9.03188	0.2838948	2.6720915303846
(406133)	17.1	11.23323	292.56734	30.62773	6.84001	0.0399046	2.7069355303833	(406185)	16.5	306.21683	183.10233	261.82925	12.31056	0.1068936	2.6094106303847
(406134)	17.0	29.61579	251.23353	79.46877	14.43237	0.1295941	2.6639328303834	(406186)	17.0	347.98986	132.07314	286.82825	15.10036	0.4008843	2.5785015303847
(406135)	16.9	258.38613	71.81087	14.72829	8.32522	0.0583813	2.6638052303834	(406187)	17.0	303.37868	217.27800	201.74158	9.22867	0.1397072	2.6864067303847
(406136)	16.9	316.78822	177.40545	255.57124	5.65054	0.1101978	2.6103448303834	(406188)	17.9	10.64119	62.14779	283.48170	1.08421	0.2075261	2.6456090303847
(406137)	16.5	310.65558	327.01296	87.21581	14.56027	0.2385944	2.6575199303834	(406189)	17.4	342.93730	337.56085	59.45509	0.28361	0.1398763	2.6278508303848
(406138)	17.4	16.15184	41.66332	311.40956	3.25139	0.2564172	2.5989227303835	(406190)	17.3	25.84888	90.18153	223.88828	5.61953	0.0620200	2.7159255303848
(406139)	16.5	284.30003	181.35493	270.91021	12.77099	0.2090490	2.6901671303835	(406191)	17.1	351.54503	277.99919	77.91251	6.28417	0.0899157	2.7077407303848
(406140)	17.8	342.41332	84.69704	322.11726	0.90012	0.1469941	2.5849483303835	(406192)	17.3	347.61027	220.50122	155.26986	3.65801	0.0919445	2.6513250303848
(406141)	17.5	337.58914	98.20356	281.78281	3.37823	0.0990751	2.6454765303835	(406193)	16.8	359.97446	112.76053	246.33147	6.18939	0.1608652	2.6720108303849
(406142)	16.4	0.20173	165.98428	216.74974	7.49330	0.1932311	2.5938568303836	(406194)	17.7	2.12285	94.63698	259.10257	1.64020	0.1678049	2.6390671303849
(406143)	17.8	318.31584	35.37957	50.51349	4.56202	0.2579646	2.5954385303836	(406195)	16.4	0.33236	321.65551	78.80301	16.05120	0.1104718	2.5401569303849
(406144)	17.1	354.91125	319.41833	28.67248	9.17885	0.1370528	2.6851558303836	(406196)	16.4	248.14015	51.66568	69.26335	9.30766	0.2641059	2.7539835303849
(406145)	16.9	23.14799	276.01622	68.95996	6.64638	0.2806031	2.5853564303836	(406197)	16.6	18.31943	293.73624	77.36759	14.33995	0.1569715	2.5786376303850
(406146)	17.3	341.09164	217.71012	187.09847	6.64058	0.3406220	2.6010668303837	(406198)	17.0	1.40069	279.99500	104.42409	5.35244	0.0187023	2.6392269303850
(406147)	17.3	9.98733	303.34919	54.75327	2.38402	0.1021676	2.6396126303837	(406199)	17.7	8.49479	202.01375	171.34188	2.28696	0.2298626	2.6009305303850
(406148)	17.2	22.18442	250.82433	81.84075	2.75585	0.1000249	2.6818524303837	(406200)	16.5	353.39208	113.39813	278.92969	17.49505	0.2868291	2.6146962303851
(406149)	16.6	300.26970	31.16963	40.55797	14.63775	0.0622764	2.6290716303838	(406201)	16.7	319.80113	140.28200	291.28481	11.82962	0.1470294	2.6657386303851
(406150)	17.1	335.85476	328.39445	86.73198	6.10063	0.1481960	2.5812110303838	(406202)	16.5	17.19453	284.51377	91.34155	11.73175	0.2541190	2.6086708303851
(406151)	17.0	4.42970	271.69408	83.40144	12.24406	0.2186627	2.6104566303838	(406203)	17.1	335.25500	142.25565	264.19308	4.02141	0.2736923	2.6267857303851
(406152)	17.3	327.46319	195.77269	224.72042	4.24297	0.1715449	2.6330117303838	(406204)	16.9	339.55798	328.82663	86.29811	6.06529	0.3258805	2.6216976303852



(406205)	16.8	336.38884	251.53060	140.98873	12.15537	0.3018746	2.6257362303852	(406257)	16.5	168.10614	48.06477	138.86797	7.24223	0.0358549	2.9629945303866
(406206)	16.4	5.22620	278.56016	117.70960	13.90604	0.1526980	2.5797341303852	(406258)	16.6	48.72176	136.17242	154.04565	1.13942	0.1701359	3.0926177303866
(406207)	16.4	8.99156	246.28935	133.61724	12.69625	0.1855670	2.5991401303853	(406259)	17.3	308.71781	249.85863	183.97548	1.93797	0.0497363	2.8498917303866
(406208)	17.3	2.24716	312.13945	89.97410	4.26198	0.1620519	2.6436919303853	(406260)	16.5	314.88977	29.50576	81.56126	15.54731	0.2070403	2.6499762303866
(406209)	16.9	351.55691	75.45371	298.75616	5.18956	0.0366216	2.7408456303853	(406261)	15.8	165.73605	0.34187	198.25774	8.03716	0.0250833	3.0698542303867
(406210)	17.1	5.54240	74.19148	318.91228	4.34577	0.3356460	2.6068187303853	(406262)	16.2	275.37748	89.63639	356.10334	17.00664	0.1059200	2.9324821303867
(406211)	16.2	319.81957	103.91054	255.22357	23.62887	0.1812085	2.7674397303854	(406263)	16.1	121.86043	225.98338	3.29943	15.89332	0.2133133	3.0894610303867
(406212)	16.2	313.61685	129.21047	301.07010	11.00870	0.1326722	2.7120033303854	(406264)	17.3	318.85416	56.58126	9.76658	2.46761	0.1669679	2.7557219303868
(406213)	20.3	10.22137	280.64555	127.10647	1.45893	0.5458871	1.9180238303854	(406265)	16.7	138.48812	37.51431	179.97930	9.59069	0.0542099	3.0214890303868
(406214)	16.2	354.02587	305.44666	103.51402	12.60627	0.1754877	2.6262105303855	(406266)	15.5	126.96564	190.49441	22.40813	21.25244	0.1683542	3.1446182303868
(406215)	17.4	299.99008	116.88487	335.75461	5.54014	0.2483509	2.6908640303856	(406267)	15.3	132.25615	272.25383	328.49418	9.45318	0.0730251	2.9695602303868
(406216)	17.5	268.63304	352.40526	89.26499	2.75573	0.1377879	2.8081517303856	(406268)	16.0	95.90218	243.19682	27.31316	12.57889	0.1130527	3.0957877303869
(406217)	16.5	315.59085	162.85192	282.35618	12.89074	0.2120288	2.6856179303856	(406269)	16.9	127.87583	92.70778	144.90551	12.08662	0.0637699	2.8640025303869
(406218)	17.3	338.16674	37.21937	340.60927	4.52009	0.1764581	2.7957957303856	(406270)	16.4	121.11776	198.37093	2.18479	8.78840	0.0418367	3.1044970303869
(406219)	16.8	278.44866	3.05598	111.99307	12.91207	0.1818784	2.7214697303856	(406271)	16.0	56.35097	151.63236	162.30280	9.78010	0.1552752	3.0043794303869
(406220)	16.4	207.07028	209.67859	317.63484	8.59409	0.1563545	2.7981772303857	(406272)	16.5	94.22897	149.17839	85.41788	2.36449	0.0524285	3.1193009303870
(406221)	17.5	307.80332	323.60653	119.13879	5.05940	0.4735973	2.6789353303857	(406273)	16.0	188.04221	138.57251	351.24529	9.17009	0.0234319	3.1703236303870
(406222)	17.3	322.88606	313.07510	99.20124	6.50670	0.2030249	2.7102364303857	(406274)	16.3	116.03351	63.53547	151.77899	10.45494	0.2335119	3.1376293303870
(406223)	17.3	48.21156	40.38616	274.23018	5.42026	0.0216231	2.7943242303858	(406275)	16.0	72.28336	111.24446	165.75837	26.09266	0.1838302	3.0997575303870
(406224)	17.5	316.83673	307.50382	135.37637	7.28965	0.3256460	2.6721434303858	(406276)	18.1	110.98892	77.83936	139.66072	5.05257	0.1207785	2.1915388303871
(406225)	17.2	325.61807	112.63800	290.75316	4.15069	0.2118569	2.7219883303858	(406277)	16.8	68.48026	90.66415	181.57618	1.63030	0.1464328	3.0867201303871
(406226)	17.1	78.89740	175.25989	126.20675	7.59897	0.0171360	2.7530884303858	(406278)	16.9	269.94946	291.02616	180.53587	5.85169	0.0268856	2.8848037303871
(406227)	16.7	224.98417	34.65454	122.12391	9.94934	0.0740134	2.7610328303859	(406279)	16.2	84.27617	279.04051	352.93144	8.78580	0.1274369	3.0422507303871
(406228)	16.6	1.85032	312.06217	93.33313	7.12108	0.2770750	2.6148170303859	(406280)	16.0	343.41855	254.51350	164.40601	13.00477	0.1114499	2.7858549303871
(406229)	16.6	307.55408	153.78352	278.65026	5.17589	0.0637125	2.7486022303859	(406281)	16.6	11.94991	313.87669	36.46313	4.74409	0.0724643	2.9622984303872
(406230)	16.2	323.48586	320.94023	105.40651	15.53811	0.0864501	2.7492242303859	(406282)	16.6	97.41189	172.91978	92.98136	3.56828	0.1109698	3.0042955303872
(406231)	16.4	2.35523	297.57932	117.86075	8.65211	0.2982781	2.5927533303860	(406283)	16.4	114.43753	56.97620	159.25003	20.26695	0.2431056	3.0743757303872
(406232)	17.6	1.26672	259.04815	152.40856	4.10663	0.1078811	2.6332681303860	(406284)	16.0	129.02357	75.30613	151.03438	16.77078	0.1875383	3.0892265303872
(406233)	16.5	155.34530	190.86202	1.80651	4.81064	0.0335465	2.8919571303860	(406285)	15.6	71.30861	273.37224	359.75664	9.26432	0.0842622	3.1256565303873
(406234)	16.5	131.81711	54.86110	150.14740	8.94837	0.0171814	2.9882420303860	(406286)	16.7	139.73544	65.93699	157.33945	1.50359	0.0577978	3.0395533303873
(406235)	16.8	329.04632	97.36065	2.37092	28.32215	0.3676697	2.6023591303860	(406287)	15.7	118.39066	33.34454	166.19133	29.71570	0.2212786	3.1737108303873
(406236)	16.7	344.09325	272.99604	121.97504	5.46729	0.0769671	2.7687192303861	(406288)	16.2	86.09445	277.84945	356.24809	10.33881	0.0686029	3.0069409303873
(406237)	17.4	298.34944	112.79167	316.63826	8.85521	0.2379930	2.7636410303861	(406289)	16.7	94.67313	245.74392	3.23468	2.89898	0.1622637	3.1079752303873
(406238)	16.7	245.96625	9.66636	128.46507	8.83825	0.1631236	2.7938725303861	(406290)	16.5	356.56755	201.29323	183.79269	5.65165	0.0925134	2.8832239303874
(406239)	17.2	334.82540	265.67799	131.07206	4.77515	0.1035461	2.7887142303861	(406291)	16.6	48.18540	309.83728	10.30497	9.41873	0.1207532	3.0112245303874
(406240)	16.5	150.65015	67.81026	156.60250	8.43974	0.1479112	2.8800421303862	(406292)	16.2	329.53960	12.61198	1.68812	11.59908	0.0848378	3.0218282303874
(406241)	16.9	351.98651	249.15685	178.44309	5.74163	0.3350795	2.6056791303862	(406293)	16.9	59.14326	188.28467	159.22264	6.55533	0.0428123	2.7442294303874
(406242)	17.3	303.82318	255.78903	182.97384	3.18741	0.1725684	2.7498158303862	(406294)	16.7	145.38961	8.83927	187.26208	5.27882	0.0779776	3.0865427303875
(406243)	16.1	269.45666	146.02684	334.66613	9.79942	0.0596864	2.760386303862	(406295)	16.7	300.55895	298.84123	181.03196	7.85144	0.1599332	2.7482898303875
(406244)	17.8	282.33519	108.71484	327.84923	1.69481	0.0538178	2.8600169303863	(406296)	16.4	221.44310	91.48208	14.61834	8.87806	0.0651450	3.0901720303875
(406245)	16.0	342.59348	328.42867	99.85765	16.54513	0.2715950	2.6493744303863	(406297)	16.7	132.23880	66.54791	145.46217	1.91793	0.1274612	3.1453655303875
(406246)	16.7	137.47332	79.09954	115.73211	2.54079	0.1201867	3.0516993303863	(406298)	16.2	186.15956	143.48720	45.03694	5.17304	0.0928489	3.0137725303876
(406247)	16.4	324.48256	34.00613	342.99619	11.55838	0.1177481	2.9647547303863	(406299)	18.4	71.04501	241.89867	26.78717	1.02131	0.1881476	2.2307608303876
(406248)	17.1	148.47078	83.82526	119.27548	2.52899	0.1108574	2.9900953303864	(406300)	17.9	80.92098	91.75780	186.62894	5.85835	0.1775055	2.2055091303876
(406249)	16.4	135.16038	231.04816	350.06593	10.79362	0.1246230	3.0005672303864	(406301)	15.9	124.66477	101.91499	131.76454	16.70137	0.1969588	3.1135808303876
(406250)	16.9	162.46957	30.41565	144.56777	4.17889	0.0510841	3.0321702303864	(406302)	18.6	64.98283	123.69826	141.58150	2.50896	0.1855395	2.2450141303877
(406251)	15.8	125.81637	40.07675	157.72974	10.23653	0.0601458	3.0992427303864	(406303)	16.5	144.71406	312.11113	242.97819	4.00013	0.1038903	3.1677626303877
(406252)	16.4	138.31612	111.14382	97.80322	2.47475	0.1721693	3.0633057303865	(406304)	16.5	31.42683	128.63209	207.33113	9.94752	0.0898527	3.1290178303877
(406253)	16.9	305.72987	288.42854	164.49678	13.04863	0.2682090	2.7163046303865	(406305)	16.1	275.93148	237.43638	217.88300	7.59529	0.0466631	3.0805089303877
(406254)	16.1	146.83991	225.73652	324.83077	9.49669	0.0453494	3.0034671303865	(406306)	16.3	119.26741	109.10759	125.32284	3.15973	0.0741340	3.1314773303877
(406255)	16.6	330.10024	308.54536	115.48049	6.14343	0.0511923	2.7627966303865	(406307)	15.8	191.23823	83.44006	71.27967	5.98149	0.0911820	3.1170307303878
(406256)	15.9	96.71340	81.92847	151.64148	12.53020	0.1088233	3.0606949303866	(406308)	16.2	123.72079	68.87465	158.81180	10.60983	0.1810098	3.1383750303878



(406309)	16.0	217.97449	310.28964	169.49752	10.50990	0.1828698	3.1552386303878	(406361)	18.0	288.19181	247.52045	215.94191	2.84138	0.0909868	2.3236714303891
(406310)	18.7	125.30647	148.93270	75.51576	3.31485	0.1439049	2.1902776303879	(406362)	18.0	347.67291	52.09239	328.53549	1.03472	0.1837143	2.3595098303891
(406311)	15.7	177.39624	145.32014	42.24212	17.71490	0.0641470	3.0651213303879	(406363)	17.6	319.63957	70.96352	346.53931	7.01203	0.0837618	2.3503113303892
(406312)	16.1	104.40897	219.39916	42.00013	10.49306	0.0556257	3.0966931303879	(406364)	17.6	353.66101	74.16355	318.22974	3.31819	0.1733633	2.2989665303892
(406313)	15.9	92.91602	222.79881	48.87583	16.41611	0.0957841	3.1541575303879	(406365)	17.8	14.27597	137.21667	235.57060	4.51296	0.1811467	2.2986748303892
(406314)	16.5	89.82865	16.84616	241.95916	1.28962	0.1604181	3.1942650303879	(406366)	17.7	347.01534	121.09435	284.49723	2.26004	0.1883947	2.3173824303892
(406315)	18.2	82.51732	226.38224	59.71984	3.85878	0.1439804	2.1840785303880	(406367)	17.4	24.42321	47.36328	298.37842	1.34412	0.2353832	2.3273963303893
(406316)	15.3	156.17787	146.24453	46.55725	16.91713	0.0926571	3.1133135303880	(406368)	17.7	324.56894	85.70366	346.82680	2.48158	0.1941594	2.3334070303893
(406317)	15.9	143.87947	184.35454	33.67127	19.38241	0.1394359	3.0834010303880	(406369)	17.1	17.32054	17.91852	332.67386	12.02791	0.2289580	2.3379091303893
(406318)	15.4	29.02205	319.73299	25.09711	10.45209	0.1179806	3.0625746303880	(406370)	16.9	252.04541	131.58335	359.50433	6.04297	0.0979433	2.3507322303894
(406319)	16.0	150.84473	103.88461	105.54078	10.38452	0.1303209	3.1526889303881	(406371)	18.2	311.40834	169.41021	256.22980	0.95784	0.0528845	2.3177211303894
(406320)	15.7	239.08535	57.67942	79.76666	11.58570	0.0637839	3.0748455303881	(406372)	17.1	318.27872	259.39142	166.62781	6.73030	0.2210448	2.3499478303894
(406321)	15.3	215.73259	270.30886	236.28144	9.73009	0.0713237	3.1203297303881	(406373)	18.2	353.95059	1.56533	41.79792	1.93166	0.1792680	2.3428781303894
(406322)	18.0	32.93597	219.85291	100.37555	3.41991	0.1992899	2.2426774303881	(406374)	17.7	358.76123	142.40754	222.94775	2.44620	0.1617176	2.3357507303895
(406323)	17.6	136.49695	77.99696	161.46995	6.58283	0.1722339	2.2178925303882	(406375)	17.7	339.92378	118.65327	274.55062	2.81706	0.1884886	2.3491103303895
(406324)	17.9	328.81030	191.30910	229.21576	3.58664	0.1043281	2.2608679303882	(406376)	18.0	5.37351	210.22559	164.40971	1.10111	0.1918757	2.3502907303895
(406325)	17.0	17.70179	75.72607	288.93044	5.83365	0.2319465	2.2789259303882	(406377)	15.1	301.78089	143.78889	255.10145	1.68221	0.2318187	3.9895086303896
(406326)	17.9	12.37998	224.39916	139.57569	4.12924	0.2336279	2.3015677303882	(406378)	17.7	42.33066	117.66456	207.99405	5.40212	0.1947501	2.2916266303896
(406327)	18.1	60.83021	329.62164	329.67547	6.42631	0.1480091	2.2966717303883	(406379)	17.2	350.94274	72.07724	302.18190	4.63542	0.1312001	2.3595748303896
(406328)	16.0	16.00970	201.95662	130.28753	11.31033	0.0916854	3.5090874303883	(406380)	18.1	310.06577	125.81890	302.77489	2.60545	0.0835602	2.3492414303896
(406329)	17.9	30.01745	238.77016	146.39548	5.18468	0.1916849	2.2461761303883	(406381)	17.1	63.41804	263.78568	8.41578	10.04760	0.0771608	2.4051109303897
(406330)	17.4	351.50682	60.72912	331.78357	5.02755	0.1600483	2.2907019303883	(406382)	18.3	327.91751	2.53190	44.49630	3.16798	0.2246623	2.3692877303897
(406331)	18.3	25.30112	350.61423	9.54667	4.49693	0.2274711	2.2989984303883	(406383)	17.8	14.74264	357.25106	346.22043	6.52079	0.1506708	2.3391696303897
(406332)	17.5	68.33984	87.49941	191.06138	10.35228	0.2717821	2.3503936303884	(406384)	17.1	45.38861	239.78994	91.50016	7.96624	0.1411089	2.3172260303897
(406333)	18.1	28.42391	186.23805	203.26257	3.43148	0.2307621	2.2404967303884	(406385)	17.3	23.89084	272.63160	94.33736	7.01250	0.2076695	2.2792238303897
(406334)	18.2	2.17281	225.61126	165.92329	6.58527	0.1845807	2.2849699303884	(406386)	17.5	315.94911	74.60433	352.00854	5.58948	0.0651680	2.3332828303898
(406335)	17.5	345.76568	256.52738	127.89696	2.38745	0.1933766	2.3516969303885	(406387)	17.7	351.34763	284.66530	90.50575	6.58346	0.2549981	2.3417693303898
(406336)	17.7	68.01484	310.02696	320.12369	5.59917	0.1997711	2.3533049303885	(406388)	17.3	104.13824	90.16399	167.36644	8.44077	0.0168700	2.3314509303898
(406337)	18.2	47.42519	119.90485	199.16475	6.07796	0.2079815	2.3095787303885	(406389)	17.6	289.23106	83.82308	347.25916	5.59698	0.1375539	2.4102904303898
(406338)	17.9	1.72745	271.22113	101.66993	3.04283	0.2290071	2.3186094303885	(406390)	17.5	338.10857	357.93748	39.24720	2.75785	0.2121522	2.3546570303899
(406339)	18.2	135.90109	225.20670	354.47009	2.42333	0.1600584	2.3014469303886	(406391)	17.4	334.50706	204.44471	194.39842	6.20633	0.1376595	2.3672655303899
(406340)	17.6	308.32383	278.36144	155.11040	5.02256	0.2002160	2.3372305303886	(406392)	17.7	306.74131	223.91398	215.76775	7.92986	0.1172992	2.3771550303899
(406341)	18.4	358.04149	177.27353	182.60918	2.57256	0.1060676	2.3397778303886	(406393)	17.2	23.25039	61.64434	302.75173	5.37441	0.1679557	2.3187896303900
(406342)	17.9	347.09439	350.07762	347.13453	0.38542	0.1700579	2.4183540303886	(406394)	18.0	320.52680	8.84290	42.30893	3.00306	0.1077536	2.3931692303900
(406343)	17.6	9.05212	215.70297	163.77846	6.27132	0.1280221	2.3184643303886	(406395)	17.7	23.09590	3.37235	14.11558	8.56684	0.1718765	2.2675449303900
(406344)	18.1	343.71739	266.74238	128.96066	3.12344	0.2213357	2.3523430303887	(406396)	18.3	356.09503	28.41513	10.74104	2.62800	0.2840592	2.3384682303900
(406345)	18.6	326.37460	70.45332	353.47597	2.80219	0.2204039	2.3225871303887	(406397)	17.6	269.66658	140.15992	351.10325	1.28757	0.1264280	2.3447151303901
(406346)	15.6	325.38337	353.67693	26.10873	3.06648	0.2477320	3.9249839303887	(406398)	17.9	21.08835	185.48960	175.23169	4.78400	0.2323160	2.3213910303901
(406347)	18.0	330.82955	52.08381	9.71235	2.48182	0.1560192	2.3266841303888	(406399)	17.9	43.11807	315.14099	34.74624	7.92171	0.1319389	2.3098302303901
(406348)	18.0	55.43304	303.71884	8.72505	5.97939	0.2204324	2.3102222303888	(406400)	17.6	34.14487	313.43113	9.67338	3.91947	0.2400617	2.3592269303902
(406349)	17.5	11.28537	188.00840	172.99288	5.26815	0.1438015	2.3397803303888	(406401)	17.7	1.79899	195.84812	185.61975	2.80817	0.2220089	2.3556315303902
(406350)	17.3	350.47905	48.77629	350.20921	8.74629	0.1340905	2.3009752303888	(406402)	17.6	359.19901	147.84664	233.21584	3.92878	0.1726305	2.3216143303902
(406351)	18.2	8.42313	143.87031	204.76964	1.47974	0.2376163	2.3455237303889	(406403)	18.2	325.74258	323.74696	104.25455	2.12938	0.1665614	2.3663026303902
(406352)	17.7	333.81987	148.60704	207.44246	1.45503	0.1983029	2.4093680303889	(406404)	18.2	27.76082	105.41138	225.93370	1.59389	0.2203657	2.3556255303903
(406353)	17.0	172.97416	66.41592	151.45445	6.39412	0.0549186	2.2708943303889	(406405)	18.1	32.59045	101.28165	232.56112	4.24251	0.2505382	2.3253486303903
(406354)	17.9	285.99076	51.68303	27.80260	3.95183	0.1787532	2.3697981303889	(406406)	17.1	16.22449	283.07546	82.01573	8.10941	0.1482434	2.3405916303903
(406355)	17.9	349.60364	347.42016	56.66894	2.40322	0.2052990	2.3045166303890	(406407)	17.2	25.03428	289.99659	51.14312	6.79158	0.2665915	2.3578430303904
(406356)	17.6	17.46450	214.05136	168.78676	2.40045	0.1931912	2.3275224303890	(406408)	17.9	41.69262	223.34315	91.69278	2.39544	0.1952851	2.3636812303904
(406357)	17.8	313.19117	69.75630	9.01957	5.64852	0.1848287	2.3477346303890	(406409)	17.9	306.65062	348.53304	71.47141	3.24414	0.1967576	2.4134748303904
(406358)	18.0	77.48997	237.59044	31.86599	2.25286	0.1591185	2.3513403303890	(406410)	17.2	69.08344	277.62097	37.73673	6.27936	0.2298336	2.3088450303904
(406359)	17.6	276.11771	266.19507	190.13663	6.73187	0.1180382	2.3628936303891	(406411)	17.7	356.05001	281.38166	95.85433	2.64983	0.1483736	2.3752023303905
(406360)	18.0	342.27280	217.47804	191.50649	5.90356	0.1688056	2.3222285303891	(406412)	17.8	343.22624	236.23836	166.81320	1.62645	0.1760539	2.3430216303905



(406413)	17.7	11.57628	141.84364	233.82480	4.83617	0.1465208	2.3146759303905	(406465)	17.8	293.49329	291.55874	160.01924	1.28502	0.1856871	2.3748915303918
(406414)	16.8	33.53045	122.05929	217.27457	7.43498	0.1456644	2.3316071303905	(406466)	17.7	289.97816	172.38441	256.46784	0.64451	0.1193170	2.4168794303919
(406415)	17.8	337.79861	45.37880	346.53411	4.93419	0.2265582	2.3785117303906	(406467)	17.7	335.01317	245.14529	171.86726	3.79387	0.1892370	2.3666550303919
(406416)	17.5	38.06331	118.70556	213.10982	5.99376	0.1183464	2.3357739303906	(406468)	17.9	1.15362	331.07015	43.71075	1.99835	0.2010909	2.3697185303919
(406417)	17.0	19.62636	7.86741	354.39636	4.42129	0.2709869	2.3445221303906	(406469)	17.8	31.51240	70.90016	232.70468	0.70897	0.1912175	2.4012849303920
(406418)	17.6	0.74872	321.37648	56.65240	2.41781	0.1954459	2.3528749303907	(406470)	18.1	345.98732	343.81485	36.89829	3.18932	0.1977337	2.3924045303920
(406419)	17.5	38.84795	319.60020	4.56845	4.82906	0.1841776	2.3466897303907	(406471)	18.0	350.19961	176.62037	202.76340	0.82434	0.1988865	2.3938702303920
(406420)	17.3	34.57078	346.43569	355.33996	5.48807	0.3119695	2.3308738303907	(406472)	17.2	302.74583	257.25746	169.33494	6.66688	0.1313099	2.4256259303920
(406421)	17.8	20.18397	199.51016	150.86320	1.39033	0.2045352	2.3537866303907	(406473)	18.5	355.75962	37.74488	6.76158	3.04478	0.2194879	2.3193884303921
(406422)	17.0	295.43167	61.19424	34.68537	7.29297	0.0540668	2.3447113303908	(406474)	17.9	79.85874	254.53020	26.58346	2.34935	0.2346342	2.3714400303921
(406423)	17.3	29.67947	251.46539	90.88824	8.17264	0.2594575	2.3452568303908	(406475)	18.3	4.05220	150.50835	210.94108	0.28205	0.1490123	2.3990413303921
(406424)	17.2	359.54449	289.82070	72.24093	7.24961	0.2597216	2.3776005303908	(406476)	17.9	328.38836	233.43090	190.89636	2.10190	0.1928826	2.3731637303921
(406425)	17.5	282.96654	289.56552	166.46608	4.36451	0.1934031	2.3256881303909	(406477)	18.1	276.86521	64.04916	37.53033	1.56821	0.1604733	2.4160223303922
(406426)	17.6	92.77974	34.92478	213.63124	5.38978	0.0922831	2.4377489303909	(406478)	18.5	22.85465	65.95060	263.92035	0.66300	0.2018627	2.3922084303922
(406427)	17.5	353.56366	27.49314	3.71443	4.08508	0.1190099	2.3142824303909	(406479)	17.7	49.87575	61.58183	240.20701	5.31956	0.0710843	2.4242234303922
(406428)	18.2	348.77674	82.76782	290.58370	2.84330	0.2010868	2.3952683303909	(406480)	17.6	27.61915	124.59431	228.15541	1.45105	0.2335598	2.3457421303922
(406429)	18.0	20.67164	358.12261	351.73251	0.82454	0.2047383	2.3690603303910	(406481)	18.2	27.05353	294.34194	42.65866	3.15094	0.2118054	2.3706467303923
(406430)	17.8	344.78210	264.89350	155.50373	4.42438	0.1522311	2.3358272303910	(406482)	17.7	43.71970	270.38853	59.99374	5.81191	0.1312560	2.3828442303923
(406431)	18.2	284.10049	342.03057	103.86572	2.10049	0.1641129	2.4102389303910	(406483)	17.2	308.65129	34.35776	49.20133	11.30539	0.1773718	2.3948967303923
(406432)	17.7	36.37603	147.42721	193.48080	5.24129	0.1430836	2.3340131303910	(406484)	18.0	287.58673	188.41079	241.84923	3.18208	0.1611210	2.4583368303923
(406433)	16.7	322.70309	5.74182	41.19238	13.93704	0.1326362	2.3840103303911	(406485)	17.5	222.90298	65.49018	88.52649	2.53104	0.1156152	2.4299050303924
(406434)	17.2	3.71015	312.87603	71.74310	6.77163	0.2071716	2.3446940303911	(406486)	17.4	339.38983	302.20023	124.52461	6.62818	0.2449360	2.3385221303924
(406435)	17.7	53.41240	216.11579	103.36935	2.34796	0.1647325	2.3418001303911	(406487)	16.5	223.78024	176.57171	322.34070	6.07938	0.1689004	2.4763601303924
(406436)	18.3	323.64045	217.87201	218.10005	4.71126	0.1417837	2.3569129303911	(406488)	17.6	327.28469	29.20656	1.86789	5.41782	0.1812538	2.4133099303924
(406437)	17.5	316.22234	230.22010	192.50513	6.42807	0.1220265	2.363329303912	(406489)	16.9	0.43195	127.12922	253.48311	4.10732	0.2335242	2.3723352303925
(406438)	17.9	13.73227	161.00881	172.21385	2.11904	0.2211247	2.3730662303912	(406490)	17.9	357.02520	290.23767	89.06008	3.34059	0.2363976	2.3782156303925
(406439)	18.0	38.97454	261.73439	66.42236	1.75904	0.1297437	2.3520102303912	(406491)	17.0	188.44649	153.48481	36.10477	7.71350	0.0428219	2.3482286303925
(406440)	17.7	12.75507	315.32812	20.31840	1.71217	0.2031242	2.3770227303912	(406492)	17.7	35.34963	260.53520	93.51029	3.48249	0.2413776	2.3291865303926
(406441)	17.5	40.22375	159.78760	160.54680	4.30202	0.2645966	2.3401274303913	(406493)	17.5	307.98274	239.02284	210.39650	6.96821	0.0749298	2.3834015303926
(406442)	16.8	212.44263	174.05468	343.54688	6.84839	0.0492972	2.3967972303913	(406494)	17.6	57.77069	292.62983	17.48971	6.84330	0.1742958	2.3822702303926
(406443)	18.0	320.64440	314.75277	125.89150	3.90263	0.1464784	2.3178946303913	(406495)	17.6	66.15585	311.05058	23.20478	7.56953	0.1672773	2.3043224303926
(406444)	17.6	290.11952	210.39990	253.41967	4.09244	0.1799277	2.3373845303913	(406496)	17.0	277.64186	188.19038	271.82638	4.10182	0.1548818	2.4292108303927
(406445)	17.6	28.65973	270.71355	121.82468	6.14568	0.1479759	2.2763982303914	(406497)	17.6	227.01639	95.12234	51.51542	1.69164	0.1326724	2.4378750303927
(406446)	18.6	338.42859	160.95935	248.07012	2.36362	0.1694744	2.3455113303914	(406498)	17.9	273.20001	292.96539	186.54210	1.13985	0.1486330	2.3905168303927
(406447)	18.4	333.37183	258.63770	149.36868	1.53554	0.1865023	2.3761242303914	(406499)	17.5	346.57132	343.48231	58.33718	7.22500	0.2390215	2.3573770303927
(406448)	17.5	286.95842	51.34032	37.05081	6.62041	0.0939535	2.4087832303914	(406500)	17.7	271.55283	187.20473	292.70497	2.29963	0.1105840	2.4186247303928
(406449)	18.3	350.81364	14.67864	13.34401	7.01803	0.2212153	2.3526656303914	(406501)	18.2	59.69710	163.68962	141.68198	1.87914	0.1922797	2.3310803303928
(406450)	17.1	80.69041	183.07560	106.50600	8.81450	0.1070075	2.3420473303915	(406502)	17.1	275.71595	19.62734	50.96035	6.53634	0.1041568	2.4406150303928
(406451)	15.6	316.87503	34.37283	10.10568	2.71538	0.2163437	3.9441182303915	(406503)	18.8	330.20717	271.76020	143.05392	3.05042	0.1725960	2.3974723303928
(406452)	18.0	6.24373	151.84345	203.07452	7.42826	0.1349191	2.4056804303915	(406504)	17.5	106.37278	262.92547	10.58767	6.18077	0.0484221	2.3876126303929
(406453)	17.3	14.88122	285.39256	79.80390	6.20761	0.1205736	2.3654853303915	(406505)	17.9	25.95995	44.03046	280.80880	2.18607	0.1935587	2.3929546303929
(406454)	17.7	282.54619	210.69862	257.54699	3.52967	0.0979466	2.3986327303916	(406506)	18.2	329.02827	151.29488	260.89262	1.38593	0.2055185	2.3896798303929
(406455)	17.8	309.24149	282.91132	157.11368	2.69849	0.1706189	2.3822368303916	(406507)	17.5	7.83204	316.00690	75.63379	3.54577	0.1908061	2.3366448303929
(406456)	18.0	26.44165	260.22449	136.05564	7.14031	0.1919841	2.2746560303916	(406508)	17.7	3.51078	285.78661	82.44213	2.27268	0.1914975	2.3865927303930
(406457)	17.6	6.52403	275.22509	100.58214	4.81428	0.2391426	2.3464063303916	(406509)	18.0	8.60433	246.63250	157.25069	1.99587	0.1263711	2.3286466303930
(406458)	17.6	20.21246	51.09979	321.16007	1.44248	0.2010999	2.3399917303917	(406510)	17.9	348.25297	105.68593	274.03247	1.17126	0.1871074	2.3940447303930
(406459)	15.6	298.45064	254.56764	167.30625	3.10342	0.2124708	3.9312896303917	(406511)	16.0	287.73129	13.86725	104.41164	17.86581	0.1479190	2.5309049303930
(406460)	17.3	55.74621	236.65747	69.83394	10.70824	0.2501093	2.3397670303917	(406512)	18.1	14.62253	159.10514	208.86371	5.61130	0.2279988	2.3564599303931
(406461)	17.1	119.10102	180.62612	20.72055	9.28929	0.1686518	2.4568961303917	(406513)	17.8	44.41697	295.73073	62.84698	5.20011	0.1643556	2.3002308303931
(406462)	17.6	32.74178	221.07848	125.38395	3.46216	0.2357342	2.3155767303918	(406514)	17.0	249.58220	26.22271	87.93267	7.23900	0.1745904	2.5504267303931
(406463)	17.5	137.97601	170.38832	58.03919	7.37671	0.0726695	2.4070998303918	(406515)	17.6	84.22068	34.80151	252.69540	4.56933	0.1436958	2.3508425303931
(406464)	17.7	290.11753	334.42948	132.15029	2.67511	0.1645884	2.3782387303918	(406516)	17.2	26.21222	72.12117	281.20706	6.23664	0.1295949	2.3307786303932



(406517)	17.6	322.24198	88.11179	335.85719	2.80561	0.1933107	2.3871326303932	(406569)	17.4	43.37953	214.03999	150.38843	1.82013	0.1918687	2.4158962303944
(406518)	17.2	111.51108	184.32955	36.37835	8.44017	0.0537954	2.5235664303932	(406570)	16.4	172.77011	354.70143	166.73925	14.35777	0.0493323	2.7399984303945
(406519)	17.8	319.47898	229.27484	202.95865	6.66752	0.0848951	2.3820045303932	(406571)	15.0	0.27354	105.13081	263.51717	10.63119	0.2709431	3.9532601303945
(406520)	14.9	308.12465	54.06871	27.03616	13.34176	0.2428960	3.9781037303932	(406572)	17.3	256.19804	319.93444	130.61841	14.92573	0.0379659	2.6136305303945
(406521)	18.3	329.54995	276.16950	143.76103	1.92529	0.1713985	2.3580372303933	(406573)	16.8	227.81108	356.97807	129.56038	13.75639	0.1384136	2.6101571303946
(406522)	17.4	13.09856	351.45322	355.79548	5.59704	0.2065141	2.3818336303933	(406574)	16.7	248.38592	348.32624	115.17548	7.04594	0.0236567	2.6496041303946
(406523)	17.2	54.30612	262.12812	48.02108	6.94582	0.1622152	2.3959156303933	(406575)	17.2	165.94193	207.04444	327.26322	10.24785	0.0241330	2.6889023303946
(406524)	17.5	263.55015	78.68715	41.62274	1.92488	0.1375919	2.4222610303933	(406576)	17.3	309.01511	311.58210	142.52916	10.54200	0.2007203	2.4404452303946
(406525)	17.6	330.46707	277.52266	145.62464	7.20988	0.2729591	2.3819203303934	(406577)	17.0	244.77165	350.59151	117.30380	6.84953	0.0581061	2.6222506303947
(406526)	17.9	89.75316	237.65018	40.96041	2.47381	0.1605373	2.3697948303934	(406578)	17.7	340.29755	288.50620	106.12048	2.32172	0.1842957	2.4541463303947
(406527)	17.8	337.46735	256.25179	164.37518	5.13782	0.2238838	2.3553995303934	(406579)	16.8	240.38675	347.41610	125.80569	9.60621	0.0855938	2.6079032303947
(406528)	18.0	342.79449	273.02302	133.04493	3.97341	0.1762042	2.3713696303934	(406580)	16.4	305.59381	83.60625	306.06721	27.92177	0.0393918	2.6445364303947
(406529)	17.3	74.37224	177.46443	128.39754	7.20466	0.1176044	2.3743188303935	(406581)	17.0	14.93273	257.21775	140.36140	5.57634	0.1131654	2.4138123303947
(406530)	16.8	206.42938	259.85733	249.15005	12.94754	0.1203641	2.5283191303935	(406582)	17.2	156.77428	331.75071	220.29226	1.54967	0.1568244	2.6923087303948
(406531)	17.6	294.24422	176.18101	273.06379	6.67642	0.1182134	2.4733498303935	(406583)	17.7	351.29082	74.30038	320.03678	6.33858	0.1626388	2.4703742303948
(406532)	18.6	332.98601	217.32668	187.96893	0.65683	0.1709056	2.4011470303935	(406584)	17.2	220.49747	3.56358	132.93739	3.88536	0.0799259	2.5829657303948
(406533)	17.6	359.53051	86.01033	299.80818	1.64362	0.1933219	2.3668887303935	(406585)	17.2	198.04511	86.29351	87.85614	5.13188	0.0223551	2.5595157303949
(406534)	16.9	317.19673	317.78093	66.39950	6.90196	0.0575718	2.5144080303936	(406586)	18.1	350.88147	11.37657	39.12414	3.19361	0.2271075	2.4180463303949
(406535)	17.4	22.38813	278.17540	79.98659	4.71318	0.2228608	2.3578318303936	(406587)	18.0	321.41703	90.31379	335.87115	1.48923	0.1751635	2.4533136303949
(406536)	17.5	296.64552	347.00488	76.54301	5.70511	0.1657824	2.4657302303936	(406588)	17.0	158.21618	126.67689	89.43124	3.86727	0.1772588	2.6007578303949
(406537)	18.1	324.71790	63.58071	355.08955	3.84024	0.1035808	2.3993571303936	(406589)	17.6	334.10096	320.65411	101.76124	3.23985	0.1922055	2.4397352303949
(406538)	18.4	344.00064	144.08980	264.34206	5.00379	0.2441353	2.3818442303937	(406590)	16.8	55.33665	347.49622	309.73826	12.89623	0.1719031	2.6434710303950
(406539)	17.1	278.38444	156.10843	297.73304	5.04564	0.2023353	2.5494349303937	(406591)	16.7	340.90462	45.74563	307.31269	5.19580	0.0554295	2.6702645303950
(406540)	16.8	292.02338	182.21963	282.32967	8.20865	0.0363654	2.4696021303937	(406592)	17.5	245.44596	342.99989	139.88367	11.99931	0.1188616	2.5864138303950
(406541)	17.6	325.72310	313.60848	126.63694	5.43450	0.1666094	2.3675778303937	(406593)	16.9	1.63594	209.16266	154.58636	12.10633	0.0128402	2.6644813303950
(406542)	17.9	358.37254	306.47617	64.35776	3.38147	0.2111087	2.3937565303938	(406594)	16.7	263.07258	47.70304	35.55289	5.19640	0.1284810	2.5917448303951
(406543)	17.4	23.26392	10.86548	21.70674	3.82624	0.1853016	2.3153206303938	(406595)	17.1	262.24313	136.77177	343.04839	11.62002	0.1334204	2.5970790303951
(406544)	18.5	324.16117	36.17411	40.68140	2.93452	0.1771710	2.3430333303938	(406596)	16.8	160.10434	18.08017	150.79428	17.97142	0.1827934	2.7977174303951
(406545)	17.2	7.16043	198.43759	187.99349	1.90123	0.2161333	2.3534161303938	(406597)	17.1	169.58920	215.16694	355.78679	4.23414	0.0860807	2.6169067303951
(406546)	17.8	347.25523	103.59487	300.18033	3.51525	0.1338472	2.3775775303939	(406598)	16.7	281.48436	246.02948	138.88944	7.06147	0.0829257	2.7758040303951
(406547)	17.9	328.28625	113.18897	296.75202	3.71384	0.2246409	2.4097661303939	(406599)	17.1	238.31599	349.10484	141.07052	7.43345	0.1554633	2.6271975303952
(406548)	16.8	300.28644	293.89894	113.71725	10.05021	0.1547438	2.5971177303939	(406600)	17.1	239.88351	325.42506	144.14809	13.76340	0.2130472	2.6445794303952
(406549)	16.4	215.73649	194.85331	327.30857	10.28221	0.1391306	2.6670131303939	(406601)	17.2	334.51433	111.23983	303.07336	6.03403	0.0773179	2.4514522303952
(406550)	17.0	330.51659	332.94868	92.41714	9.47411	0.1490592	2.3879454303940	(406602)	17.0	289.32814	268.57232	155.08254	22.09019	0.0697366	2.6589988303952
(406551)	17.9	354.65724	278.91568	119.43458	2.29204	0.1896920	2.4099699303940	(406603)	17.0	221.58251	348.07042	134.49177	6.57989	0.0897346	2.7100011303953
(406552)	17.5	310.98617	28.92969	38.96404	4.99153	0.1558001	2.4402796303940	(406604)	17.2	275.96896	31.99992	55.21649	3.11562	0.1776559	2.6113261303953
(406553)	17.6	351.72515	23.39928	14.91260	3.43168	0.2235709	2.3730346303941	(406605)	16.6	274.33547	343.69534	142.15994	12.88138	0.1995075	2.4717325303953
(406554)	17.5	255.29484	174.82841	281.49190	5.77965	0.0648098	2.4862863303941	(406606)	17.4	111.17142	60.88808	150.09851	10.22125	0.1320329	2.7754343303954
(406555)	17.3	70.12995	331.57591	297.66100	3.56017	0.0327829	2.5503117303941	(406607)	17.1	104.41346	322.65192	283.03518	3.80914	0.0344499	2.6598301303954
(406556)	17.5	246.08976	169.60464	310.81692	13.41096	0.1856863	2.5653941303941	(406608)	17.2	342.69350	316.98684	135.96968	7.69031	0.1703871	2.4038394303954
(406557)	17.6	299.54746	17.64979	65.56077	1.66503	0.1939055	2.4798257303942	(406609)	17.6	235.31413	333.93292	164.05131	10.35978	0.1232624	2.6047775303954
(406558)	17.0	183.88380	62.38103	111.01635	3.67037	0.1100677	2.6297913303942	(406610)	17.4	315.85866	222.38386	162.51752	6.05995	0.0462684	2.6671503303954
(406559)	16.0	59.60546	146.85260	109.57513	14.11143	0.1293397	2.7185630303942	(406611)	16.7	330.80521	244.66468	146.11442	22.36934	0.0217809	2.6105215303955
(406560)	17.5	23.96593	253.08926	109.02379	16.30250	0.2463928	2.4184460303942	(406612)	17.1	82.91703	177.88275	97.46315	7.21251	0.1064796	2.6977441303955
(406561)	16.9	290.80181	155.04023	298.83903	4.41704	0.1312371	2.4742380303942	(406613)	16.6	248.81558	79.96122	42.90266	10.34384	0.1845515	2.6104255303955
(406562)	16.7	6.26120	242.82237	185.15201	21.31222	0.2974574	2.3094178303943	(406614)	16.8	279.88112	288.85747	151.37873	14.09509	0.1356798	2.6358363303955
(406563)	16.7	171.42932	220.11830	333.84482	8.16882	0.0649619	2.5864183303943	(406615)	16.9	118.53073	71.52265	144.07292	13.08375	0.1051910	2.7839549303956
(406564)	17.1	5.29788	44.40207	327.79979	6.41048	0.1272796	2.4649317303943	(406616)	16.8	180.43842	243.47658	290.88259	7.06589	0.0643779	2.5885792303956
(406565)	17.9	294.47795	78.05689	0.87113	1.74818	0.1245049	2.5235668303944	(406617)	17.2	173.82905	43.04636	145.39054	8.69919	0.1064107	2.6612212303956
(406566)	17.4	320.25525	293.24578	116.78475	2.77983	0.0997964	2.5432272303944	(406618)	16.9	75.11542	147.18424	117.69005	6.02201	0.0752996	2.7168693303956
(406567)	16.8	292.59098	281.67853	136.95763	15.35158	0.0977819	2.5796081303944	(406619)	17.0	181.97649	37.46692	132.35477	14.49612	0.1188711	2.6714672303956
(406568)	17.5	199.25565	25.76314	126.00560	2.18240	0.0729301	2.6381951303944	(406620)	17.2	200.64101	10.67671	153.63666	12.29655	0.1409702	2.6179526303957



(406621)	16.9	192.09660	11.13696	153.66445	10.67503	0.1022845	2.6592371303957	(406673)	16.9	261.18957	331.99390	151.43375	6.96238	0.1000401	2.5838968303970
(406622)	16.9	237.68345	2.25815	132.42703	4.72773	0.1264800	2.6043389303957	(406674)	16.5	305.32609	13.63252	22.63811	12.40945	0.1303839	2.7041813303970
(406623)	17.1	307.26723	94.34330	338.45274	16.16545	0.0870799	2.5724621303958	(406675)	16.4	209.95484	201.17686	314.76997	12.66186	0.1755917	2.6640897303970
(406624)	17.0	152.77340	25.37064	158.49353	7.17911	0.2236939	2.7436271303958	(406676)	16.2	171.19091	141.86813	14.51637	10.41318	0.0424005	2.7841286303971
(406625)	17.1	312.72334	242.01844	159.21888	4.68856	0.0413537	2.6294271303958	(406677)	17.0	92.36589	107.10720	149.31748	11.69666	0.1582132	2.7243399303971
(406626)	16.7	226.76302	170.07808	325.07152	14.13886	0.1851096	2.6415579303958	(406678)	16.9	96.42419	206.92962	51.64682	6.72301	0.1589139	2.7841366303971
(406627)	16.7	266.78607	302.43806	165.06819	13.42402	0.1556751	2.5956317303959	(406679)	17.2	267.92127	163.00257	315.34589	9.94141	0.2136893	2.5560268303971
(406628)	17.3	322.16657	273.47722	118.28867	9.79851	0.1217016	2.6363873303959	(406680)	17.2	351.27240	47.55844	343.30447	10.75952	0.1390123	2.5903195303972
(406629)	17.3	330.29008	239.94322	150.01216	7.56948	0.0323920	2.6256436303959	(406681)	17.0	258.88660	74.66476	5.44884	5.13130	0.0589550	2.7783425303972
(406630)	17.3	44.87087	81.34209	219.34670	4.22148	0.0967948	2.7132089303959	(406682)	18.5	318.95180	266.93415	162.61923	23.34032	0.0872797	1.8589556303972
(406631)	16.3	119.65469	113.14855	113.22523	17.32621	0.2251509	2.7565569303960	(406683)	16.9	293.26841	114.88506	322.78362	12.05390	0.2189971	2.5678797303972
(406632)	16.3	131.31455	327.24248	225.02638	6.47260	0.0919277	2.8036320303960	(406684)	17.7	268.00643	104.96520	8.08296	3.07684	0.1774493	2.5698645303973
(406633)	17.8	195.20633	237.44542	284.40826	18.27658	0.1054000	1.9062750303960	(406685)	17.6	243.38309	322.55961	164.60576	2.21438	0.1461263	2.6466806303973
(406634)	16.5	170.55989	273.35580	260.60256	10.42422	0.1306446	2.6872704303960	(406686)	17.3	163.34392	219.69634	324.58590	1.90969	0.0183456	2.7920047303973
(406635)	16.5	48.55483	136.41436	172.54019	11.27141	0.0769952	2.6949015303961	(406687)	17.0	62.97686	307.06778	14.06540	22.14763	0.0212379	2.6503525303973
(406636)	17.3	290.27753	93.38379	0.73299	14.65645	0.0576223	2.5873358303961	(406688)	17.5	239.72022	308.68576	170.14806	4.18504	0.0400962	2.7219124303973
(406637)	17.3	266.45920	281.62904	176.70730	6.01916	0.0728041	2.6600141303961	(406689)	17.0	65.67474	112.57996	177.28659	4.26215	0.0301725	2.7661522303974
(406638)	17.2	148.04728	251.65382	331.85973	6.49275	0.0407366	2.6411421303961	(406690)	18.5	310.23219	54.86714	17.94972	20.68869	0.0993247	1.9120320303974
(406639)	16.8	101.01384	113.97684	139.97798	5.67995	0.0644868	2.7160163303962	(406691)	16.6	221.59040	64.24642	89.34679	9.88265	0.1573040	2.6413571303974
(406640)	17.3	40.75676	324.28026	357.06741	4.95233	0.0565882	2.6481023303962	(406692)	16.8	239.80018	34.60236	135.43528	11.74935	0.1106350	2.5672382303974
(406641)	16.5	26.06239	343.05226	353.74242	11.72512	0.0741025	2.6266891303962	(406693)	17.2	125.33418	57.74943	184.91493	12.52854	0.0972620	2.6971124303975
(406642)	18.1	283.25855	105.61033	0.72279	1.76956	0.1926561	2.4923743303962	(406694)	17.4	304.13195	50.99383	9.48516	6.40144	0.0229505	2.7190583303975
(406643)	16.5	282.82448	295.76120	140.52149	22.44365	0.0388656	2.6012884303963	(406695)	16.4	234.90783	250.80580	247.36193	10.99191	0.1270890	2.6353464303975
(406644)	16.8	152.64322	226.64762	350.44578	11.09550	0.1068234	2.7123885303963	(406696)	17.5	287.59683	265.72055	176.98224	4.17251	0.0740966	2.6310457303975
(406645)	16.7	29.12822	170.04482	180.76871	13.03183	0.0317590	2.6239772303963	(406697)	17.3	88.75960	72.85463	189.58106	4.64374	0.0692846	2.7292987303976
(406646)	16.5	165.47988	219.37475	352.87447	16.61698	0.0897703	2.6316163303963	(406698)	17.0	67.47206	315.63791	348.14906	5.02336	0.0521439	2.7025764303976
(406647)	16.3	163.16911	34.42342	174.92927	17.39291	0.1289348	2.6746661303963	(406699)	17.2	262.63089	310.54643	177.21814	14.70585	0.1848793	2.5621915303976
(406648)	17.0	231.73651	152.80676	353.02111	11.69477	0.1365472	2.6403134303964	(406700)	17.2	274.36604	347.59187	121.95878	6.08742	0.0906129	2.6537388303976
(406649)	16.5	159.37573	51.60424	178.00722	15.59233	0.0959635	2.6540893303964	(406701)	16.6	27.87958	249.21618	89.08446	5.31776	0.0756854	2.7660973303976
(406650)	16.1	299.24631	258.61077	161.82027	22.10990	0.0614925	2.6328701303964	(406702)	16.4	179.60275	91.04267	100.90546	5.34362	0.0328727	2.7276317303977
(406651)	18.5	325.64467	85.85596	334.46846	17.47638	0.0705708	1.8559295303964	(406703)	16.9	356.44961	306.07172	77.23813	6.29228	0.0255313	2.7022293303977
(406652)	18.0	347.35567	226.84559	166.44740	23.21232	0.1351198	1.8765118303965	(406704)	16.7	170.96080	175.60134	36.05432	15.09449	0.0676985	2.6993585303977
(406653)	17.1	239.95922	151.85530	345.27015	13.51222	0.1876493	2.6285579303965	(406705)	16.9	305.19514	254.31418	181.64760	12.51563	0.0946287	2.6692082303977
(406654)	17.5	288.29731	104.56264	341.82772	6.85009	0.1149826	2.5866645303965	(406706)	16.8	189.11409	129.06817	30.08181	12.46431	0.0750096	2.7911688303978
(406655)	16.9	350.62308	231.37343	129.50753	6.83240	0.0431273	2.6879896303965	(406707)	17.1	209.65970	91.86773	35.36499	8.22726	0.1037680	2.8130516303978
(406656)	17.1	185.26732	156.98981	11.36067	5.30230	0.0504507	2.6957056303966	(406708)	16.5	165.07274	208.02352	358.21745	12.78797	0.1046557	2.6940585303978
(406657)	17.2	331.92830	254.79015	116.96428	6.70334	0.0883373	2.7071052303966	(406709)	17.4	256.57296	313.45174	171.32827	10.85193	0.0764515	2.6158791303978
(406658)	17.0	272.54572	248.75025	223.46338	8.19639	0.1197365	2.5709401303966	(406710)	17.0	187.18341	133.75051	45.77503	1.67299	0.1156431	2.7538736303979
(406659)	16.8	329.94110	223.52560	186.43322	13.38657	0.1690526	2.6347973303966	(406711)	16.1	143.43161	217.22347	18.05732	14.77534	0.1456606	2.7123321303979
(406660)	15.9	81.84458	273.23848	350.54490	14.36272	0.1314889	2.6862653303967	(406712)	17.2	54.03529	28.85425	227.99692	1.55366	0.2253815	3.0272000303979
(406661)	16.9	259.65608	273.79326	187.48009	12.71466	0.1313923	2.6728657303967	(406713)	16.9	9.81277	250.42266	179.44096	9.64909	0.0634664	2.5468018303979
(406662)	17.2	229.47229	141.61616	9.51503	13.41969	0.1934910	2.5940903303967	(406714)	16.6	23.76702	348.76712	357.78686	4.79318	0.0919738	2.8119095303979
(406663)	16.8	338.65422	211.85258	151.72200	6.38282	0.0308142	2.6719172303967	(406715)	16.9	66.64985	234.99106	62.37582	4.94779	0.0836962	2.7695325303980
(406664)	17.1	282.87118	161.38759	295.35980	5.08031	0.1402226	2.6344509303968	(406716)	17.0	191.48281	23.84903	127.17045	5.94334	0.0356644	2.8440990303980
(406665)	16.5	106.78699	220.40881	34.40941	12.77824	0.0654121	2.7883798303968	(406717)	17.0	254.23251	328.29199	158.22348	6.10558	0.1033572	2.7256333303980
(406666)	16.1	73.64851	244.94875	354.94380	16.21618	0.1717546	2.9700371303968	(406718)	17.7	283.84951	84.46547	24.87119	6.88238	0.0881656	2.6050618303980
(406667)	16.9	161.32541	37.77093	144.45277	3.12643	0.1319719	2.7707555303968	(406719)	17.6	258.43277	22.22516	98.39094	0.79247	0.0753438	2.6727712303981
(406668)	17.1	247.56556	323.49426	161.28761	13.75999	0.2049744	2.6335480303969	(406720)	17.1	55.76210	282.37846	38.01810	5.55038	0.0968720	2.6547719303981
(406669)	17.0	202.77793	169.42854	349.50965	12.80881	0.0310689	2.7041531303969	(406721)	17.0	74.04820	87.95788	177.02151	10.90941	0.0925431	2.8714643303981
(406670)	17.7	322.36096	244.81975	191.97812	12.70626	0.1674366	2.5530386303969	(406722)	17.5	321.28427	223.43892	187.96588	3.36364	0.0755719	2.6863178303981
(406671)	17.1	129.08173	205.25454	29.26278	5.78240	0.0458488	2.7307155303969	(406723)	17.3	85.58852	268.32166	15.60485	4.43091	0.0180642	2.7231797303981
(406672)	16.1	143.55121	160.64608	63.51120	9.68463	0.1394611	2.7607602303969	(406724)	16.6	337.52815	263.52666	120.47045	5.31173	0.1163231	2.8122847303982



(406725) 16.5 78.20170 162.32163 72.47542 13.74846 0.1895651 3.0706253303982  
 (406726) 17.1 321.87449 267.31346 157.24762 3.17341 0.0709887 2.6624819303982  
 (406727) 17.0 7.71076 338.36167 23.67585 6.49617 0.0365727 2.7337299303983  
 (406728) 17.0 91.69382 208.40904 54.10872 11.81749 0.1688695 2.8781800303983  
 (406729) 16.6 19.79433 215.05240 154.51259 7.03121 0.0826231 2.7443519303983  
 (406730) 16.7 229.35614 320.41931 183.46381 10.73977 0.1383732 2.6805501303983  
 (406731) 16.7 240.45043 321.99294 168.97647 13.56835 0.1981295 2.6685643303983  
 (406732) 13.5 137.36389 237.45187 46.55472 30.32723 0.0524245 5.2467780303984  
 (406733) 16.6 90.29823 251.54523 27.50687 12.85668 0.0903248 2.8020714303984  
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(407453)	16.5	274.85843	109.77539	14.35425	6.58337	0.1247179	2.6418772304158	(407505)	17.4	306.23956	66.02464	10.18290	1.58677	0.1829532	2.7234717304171
(407454)	16.9	292.84844	260.23690	181.39115	5.05040	0.1390311	2.7257642304158	(407506)	17.1	1.14433	294.49102	60.93894	3.45540	0.1252974	2.7549925304171
(407455)	16.1	349.94107	306.64336	44.40610	11.23629	0.1118906	2.9641153304159	(407507)	17.1	325.25445	357.05349	59.49137	5.14632	0.1048482	2.7340738304172
(407456)	17.6	7.80374	9.46056	359.15397	2.17093	0.2374058	2.6067031304159	(407508)	15.7	151.52495	119.20297	68.76138	12.90803	0.1023527	3.1140804304172
(407457)	16.7	333.22252	309.07543	63.10147	4.43836	0.1052515	2.8033547304159	(407509)	17.1	353.69339	174.39735	193.36317	4.13981	0.0843383	2.7944597304172
(407458)	17.2	348.34130	81.30121	319.04175	3.93282	0.2249880	2.6222571304159	(407510)	16.7	83.35424	190.03140	89.03801	4.86606	0.1156545	2.7656310304172
(407459)	17.1	4.78986	214.51844	153.87680	3.89842	0.1103540	2.6542314304160	(407511)	15.7	139.41093	150.72124	47.12842	13.21290	0.0680058	3.1014225304172
(407460)	16.6	269.75867	126.35279	349.28564	11.24166	0.1018299	2.7376569304160	(407512)	17.1	1.24868	93.61081	291.84964	3.56010	0.1760968	2.6694390304173
(407461)	15.1	17.02135	41.69408	243.18514	26.86182	0.2171050	3.1637504304160	(407513)	16.8	332.61311	9.14430	22.59856	15.86968	0.0766153	2.7584373304173
(407462)	15.8	166.29965	285.01188	255.09445	8.60636	0.0574430	3.0850854304161	(407514)	16.9	5.28922	56.25050	297.48476	2.54715	0.1077313	2.7648028304173
(407463)	16.3	195.06281	184.32141	353.42036	7.60308	0.0980636	2.7518188304161	(407515)	17.2	306.34612	25.58689	54.67397	5.83225	0.0932695	2.7157613304173
(407464)	17.2	352.71650	15.76419	17.54584	4.34648	0.1090643	2.6463152304161	(407516)	17.3	21.91332	283.47528	77.64836	3.09065	0.1037375	2.6519368304174
(407465)	17.3	4.14432	18.18896	352.96303	2.37349	0.1776236	2.6607507304161	(407517)	16.9	319.10772	332.63455	52.15106	10.56369	0.0946314	2.9028449304174
(407466)	17.3	311.77941	53.76577	341.22683	2.70392	0.1115270	2.8056536304162	(407518)	16.3	102.91535	3.03135	237.66764	9.65780	0.0643300	2.9866230304174
(407467)	16.8	3.13896	26.78113	20.95763	2.68741	0.2339797	2.5660572304162	(407519)	17.2	88.71281	160.37133	123.72670	4.71288	0.0480298	2.7154067304174
(407468)	17.1	34.43072	29.99657	320.13451	3.98052	0.2368655	2.6135968304162	(407520)	16.9	305.28204	350.14371	86.16931	6.59773	0.1014426	2.7479020304175
(407469)	16.4	357.67102	355.35980	25.14667	12.45720	0.0544050	2.7072416304162	(407521)	17.5	344.88985	233.91374	156.02904	3.79177	0.0799125	2.7324396304175
(407470)	16.9	281.87489	83.02049	350.28304	7.03155	0.0249248	2.8677506304163	(407522)	16.3	241.27078	92.41458	48.57359	13.89640	0.0532372	2.7560875304175
(407471)	16.1	330.79678	109.19630	229.70782	9.45969	0.1377192	3.0476157304163	(407523)	15.9	18.73623	242.57987	70.20560	12.04425	0.0543296	3.0932419304175
(407472)	17.4	340.52875	23.10301	57.99280	5.53644	0.2987169	2.5779559304163	(407524)	16.2	49.83220	245.19136	61.26207	14.22658	0.1586415	2.7800816304175
(407473)	16.7	330.29920	113.03753	275.29664	5.82282	0.1063031	2.8117333304163	(407525)	17.0	26.85120	286.61641	67.02710	7.14455	0.0508251	2.7081266304176
(407474)	16.3	5.32461	28.84240	279.73947	6.45906	0.2780237	2.9179899304164	(407526)	16.5	267.20383	58.12301	63.58337	9.59937	0.1496973	2.7691661304176
(407475)	16.9	320.53325	245.73362	191.84742	8.75207	0.2743167	2.6992484304164	(407527)	17.2	345.73692	42.86089	351.46817	4.59335	0.1654173	2.7266874304176
(407476)	17.4	7.23984	235.24773	148.05109	3.31469	0.2410803	2.5982921304164	(407528)	16.9	63.65802	17.58583	282.21986	3.46201	0.1052649	2.7424370304177
(407477)	16.7	17.88730	237.53147	141.03322	8.52267	0.1930463	2.5719631304164	(407529)	16.7	336.34143	345.85430	77.74051	11.00069	0.2898695	2.6592832304177
(407478)	16.9	20.36432	257.90997	59.83082	9.14137	0.0612906	2.8334169304164	(407530)	16.7	313.52675	287.87995	143.57973	4.92686	0.2393115	2.7520329304177
(407479)	15.9	144.83699	276.17847	268.90808	9.24371	0.0583986	2.9861352304165	(407531)	17.1	330.66243	60.85058	341.54783	4.93761	0.0663864	2.6738154304177
(407480)	17.1	24.05255	128.03005	215.83753	8.84506	0.1118630	2.6452903304165	(407532)	16.7	352.02427	327.00182	48.43526	6.79275	0.0519953	2.7414485304178
(407481)	16.9	321.91263	330.00319	74.44363	5.76185	0.0899349	2.7690982304165	(407533)	16.8	243.95115	118.91057	29.44549	14.92498	0.0631064	2.6778818304178
(407482)	17.1	18.29078	206.42313	116.09234	3.15283	0.0682704	2.8750017304165	(407534)	16.6	154.98632	339.00034	238.01014	5.21024	0.0142206	2.7601900304178
(407483)	16.5	12.25915	99.28152	293.02822	7.44669	0.2144984	2.5789197304166	(407535)	16.2	266.17701	36.44399	30.32684	9.94280	0.0507330	2.9794062304178
(407484)	17.1	3.28754	330.82758	60.21343	7.09853	0.1968834	2.6007330304166	(407536)	16.3	327.46104	300.93615	72.02878	8.26440	0.1041386	2.9870679304178
(407485)	17.0	19.93240	39.62431	298.61147	5.11757	0.0671846	2.7612797304166	(407537)	15.8	182.79359	92.12972	95.97871	11.33874	0.0780247	3.1418268304179
(407486)	17.0	11.58087	318.17017	65.65306	5.45796	0.1257045	2.5920725304166	(407538)	16.8	297.19589	349.16954	93.97213	3.87833	0.0513969	2.7584953304179
(407487)	17.0	344.96353	352.11637	49.20143	7.44793	0.1421495	2.6811363304167	(407539)	17.1	12.34574	169.25524	195.45000	2.70474	0.1174936	2.7149121304179
(407488)	16.7	336.85703	309.40852	86.72933	5.30030	0.1269766	2.7471907304167	(407540)	17.2	25.81964	288.95323	57.73907	1.07972	0.1050864	2.7567235304179
(407489)	16.4	26.02522	311.79896	71.42705	8.31312	0.1666518	2.5905286304167	(407541)	16.5	226.14560	213.61338	272.15921	3.87806	0.0460149	2.9888936304180
(407490)	17.1	16.67173	164.20874	191.80510	3.01528	0.1083247	2.6924287304167	(407542)	17.1	69.57860	8.50679	297.90380	2.73675	0.0818881	2.7588980304180
(407491)	17.0	331.00491	284.02103	95.32875	3.17999	0.1004531	2.8511128304168	(407543)	16.7	82.21962	209.66848	73.13486	3.16467	0.0323940	2.8662681304180
(407492)	16.5	281.53653	113.43938	9.02462	12.32999	0.1299959	2.6162295304168	(407544)	16.4	151.06490	116.15165	87.95372	4.27050	0.1080027	3.0065059304180
(407493)	16.2	132.05494	277.67957	295.87261	6.73126	0.0254414	2.9983487304168	(407545)	16.9	5.84584	105.84018	260.68957	4.26027	0.0680074	2.8003611304181
(407494)	17.3	19.84960	124.76351	224.68975	1.42688	0.1636923	2.6429123304168	(407546)	16.6	19.15234	352.77731	14.77018	5.32753	0.3209641	2.5996687304181
(407495)	16.8	311.97278	219.32346	196.83447	2.69603	0.0835365	2.7433254304169	(407547)	15.3	314.38033	326.90663	61.80837	11.03141	0.0801124	3.0033341304181
(407496)	17.0	357.37463	107.15957	266.32088	1.89045	0.0912117	2.7108617304169	(407548)	16.0	35.68689	283.59459	92.12677	7.09210	0.0571366	2.7152751304181
(407497)	17.4	329.70763	60.09559	353.96823	0.53725	0.0900465	2.7333120304169	(407549)	16.9	10.94816	341.28746	61.58047	8.05897	0.1795059	2.5695063304182
(407498)	15.8	146.92356	120.86130	60.46225	11.71912	0.0159089	3.1417934304169	(407550)	16.0	42.27852	337.87061	8.13255	5.24359	0.2978907	2.5682183304182
(407499)	16.8	1.61922	117.16599	251.37750	3.36638	0.0854093	2.7891282304170	(407551)	15.1	300.69545	302.36749	93.42433	13.20651	0.1204543	3.1566642304182
(407500)	15.9	286.74273	343.47810	63.95966	10.12527	0.1298313	3.0689177304170	(407552)	17.0	342.04180	286.45639	128.87280	4.11108	0.1714888	2.6748174304182
(407501)	15.9	185.24769	268.29782	254.19872	9.82592	0.0877392	3.0538908304170	(407553)	16.8	10.57114	307.52549	83.24565	11.75973	0.1355579	2.5850202304183
(407502)	16.2	228.61572	224.18512	255.06762	3.70903	0.1021544	3.0505642304170	(407554)	16.3	207.34305	66.60002	73.26519	12.12899	0.0149734	2.9893359304183
(407503)	17.3	12.20616	74.57418	312.55932	0.98710	0.2036718	2.6095313304171	(407555)	16.8	100.88768	191.38188	84.63855	3.49468	0.0326124	2.8085432304183
(407504)	17.5	328.74246	34.62423	23.64265	2.95977	0.1180641	2.6776095304171	(407556)	16.7	305.93091	3.81917	86.32527	10.06135	0.1349354	2.7416346304183



(407557)	15.9	216.36170	265.80544	243.35261	7.35474	0.1626301	3.0236073304184	(407609)	16.5	276.36677	300.59339	166.68597	10.24163	0.1982073	3.1386068304196
(407558)	16.0	253.62567	217.10726	256.31406	7.71474	0.1854785	3.0074007304184	(407610)	16.4	282.40577	359.59205	97.29014	8.14870	0.1164328	3.0904783304196
(407559)	15.5	255.75761	13.12241	114.57141	19.27824	0.1634481	3.1156898304184	(407611)	16.7	286.51586	251.08304	171.28993	0.67936	0.1184869	3.2494959304197
(407560)	16.6	33.34540	250.04648	128.05959	6.07102	0.1715292	2.5617211304184	(407612)	16.1	259.81357	160.25866	320.22766	9.42225	0.1365242	3.0170982304197
(407561)	16.6	262.71867	13.63199	113.60128	9.46634	0.1294996	2.9788226304185	(407613)	16.4	350.36584	91.38455	289.75369	8.63281	0.1120320	2.9840679304197
(407562)	17.2	20.35151	160.08731	229.27894	2.05131	0.1572324	2.5959416304185	(407614)	16.3	5.59190	209.67276	160.39443	5.55851	0.1290364	3.1128042304197
(407563)	16.8	37.42656	274.31317	94.17439	1.17777	0.2020241	2.5747606304185	(407615)	16.4	336.76287	78.90540	310.26777	13.67394	0.0957830	3.1617813304198
(407564)	17.6	307.52074	299.11364	145.24606	3.64555	0.1967237	2.7710255304185	(407616)	15.7	266.88539	139.00266	330.73026	14.39209	0.1373147	3.1963855304198
(407565)	15.3	290.82460	344.72335	84.27242	10.96270	0.0338573	2.9660015304185	(407617)	15.2	238.23214	148.68985	346.17044	12.35829	0.1079429	3.2731170304198
(407566)	15.5	319.23349	292.66418	83.60695	15.59376	0.0695902	3.1016373304186	(407618)	15.9	280.10065	299.48210	153.11041	27.44897	0.1850520	3.2001049304198
(407567)	16.7	7.27545	305.69547	81.28688	7.84001	0.2520719	2.6348858304186	(407619)	16.2	266.94320	358.29698	119.06970	12.10134	0.1315962	3.1401129304199
(407568)	16.0	285.29567	1.08953	66.78524	10.51929	0.0718599	3.1795832304186	(407620)	16.2	300.49234	124.13641	323.12805	5.30228	0.1200594	3.0829267304199
(407569)	16.7	335.59406	136.19366	274.97341	15.42637	0.3191354	2.7156502304186	(407621)	16.3	279.12448	180.55558	268.95306	4.00438	0.1347155	3.1882114304199
(407570)	15.7	197.61547	106.29296	70.41489	10.33127	0.0751629	3.1371545304187	(407622)	16.7	286.27962	216.55640	231.81504	3.74587	0.1885943	3.0730165304199
(407571)	16.2	351.15979	294.24020	110.32900	10.18067	0.1677809	2.8130554304187	(407623)	15.7	258.81422	327.16631	139.84535	15.43555	0.2426271	3.1739612304200
(407572)	16.0	297.50939	140.52347	283.54228	7.66563	0.0910415	3.0898232304187	(407624)	15.5	244.36877	132.33179	6.10536	11.18564	0.0452815	3.1245981304200
(407573)	15.5	345.95187	81.57659	294.20548	8.95436	0.1095210	3.0574777304187	(407625)	15.7	11.41830	63.04975	313.21239	10.62499	0.1454130	3.1225835304200
(407574)	15.9	36.84618	222.61644	105.58067	13.10317	0.1270480	3.0593340304188	(407626)	18.1	184.20896	329.97480	161.75549	21.19511	0.0702888	1.8888644304201
(407575)	16.0	228.54457	199.08097	300.68123	8.11172	0.0802259	3.1577141304188	(407627)	16.3	283.85636	44.96952	52.37162	6.45448	0.2473490	3.0537518304201
(407576)	16.9	4.38412	219.17390	204.75316	6.02774	0.3005553	2.5972487304188	(407628)	16.0	255.50933	108.90935	35.96985	4.27010	0.1757653	3.1296036304201
(407577)	16.7	316.10940	95.34729	309.74559	7.65578	0.1818721	3.0755962304189	(407629)	15.7	244.88258	151.21357	1.51544	10.94743	0.2113360	3.1799146304201
(407578)	15.7	2.74718	62.23530	304.52620	9.83306	0.0945280	3.1063914304189	(407630)	15.8	310.88282	100.15834	319.54036	26.76907	0.1811812	3.0315435304202
(407579)	16.2	347.64355	296.83704	98.17443	8.49009	0.0557500	2.9775443304189	(407631)	16.6	275.53059	303.45758	166.78590	9.92817	0.0588209	3.1989738304202
(407580)	15.6	208.14367	49.49686	105.63725	16.98209	0.0421697	3.2154375304189	(407632)	16.1	132.08363	93.23661	163.09521	10.40718	0.0194403	3.1871215304202
(407581)	16.7	291.32074	39.53497	51.30062	4.00512	0.0773777	3.0060373304189	(407633)	15.5	340.38345	66.27595	317.89714	10.73050	0.0509960	3.23684642304202
(407582)	16.2	260.82147	141.56567	319.22382	4.16294	0.1346745	3.2376708304190	(407634)	16.6	308.09956	291.86161	129.98652	3.66256	0.0279036	3.1901466304202
(407583)	16.2	294.30967	127.33437	307.50001	9.37103	0.2407197	3.0985751304190	(407635)	15.2	239.23167	146.13309	12.46669	18.15098	0.1337683	3.1204939304203
(407584)	15.4	300.03547	302.90412	115.69088	17.52844	0.1126771	3.1134592304190	(407636)	15.8	291.80488	37.53197	71.66145	11.65313	0.2310188	2.9963423304203
(407585)	16.2	349.32660	254.53641	127.16351	11.03391	0.1301965	2.9799832304190	(407637)	17.6	314.87402	206.31013	178.34197	21.95621	0.0730740	1.8740540304203
(407586)	15.8	196.01342	88.48707	85.50387	11.12113	0.0272669	3.1570134304191	(407638)	15.8	322.09306	249.82117	168.02169	16.35722	0.2086582	3.2317364304204
(407587)	16.1	75.60777	182.73243	110.94891	11.14295	0.0683496	3.1109211304191	(407639)	15.5	275.07867	111.97897	0.65381	11.16689	0.1731807	3.2172253304204
(407588)	16.9	303.49086	340.06806	94.19027	3.97514	0.2010549	3.0123724304191	(407640)	15.5	269.97178	107.10323	14.09266	26.26849	0.1999435	3.1801593304204
(407589)	15.5	313.89737	314.84776	107.71142	11.00961	0.0314040	3.0751999304191	(407641)	15.9	279.14420	96.16109	21.99180	8.76363	0.1924537	3.1497297304204
(407590)	16.5	281.87449	121.99653	316.22605	12.51163	0.1461594	3.2038806304192	(407642)	16.2	273.45100	120.15503	8.18286	9.95965	0.1822701	3.1190974304205
(407591)	16.3	355.96823	76.00770	311.09016	8.28648	0.0416423	3.1364903304192	(407643)	15.8	269.68752	22.35227	105.99207	16.39815	0.2281063	3.1710182304205
(407592)	16.2	322.02409	319.37913	105.85527	13.76145	0.1367310	2.7346011304192	(407644)	15.5	228.65116	126.85927	70.31926	16.17023	0.1620776	3.1461896304205
(407593)	15.5	282.78217	345.87559	114.76168	11.50745	0.1019037	3.1089842304192	(407645)	15.4	271.16188	108.38048	26.81737	22.04763	0.1683898	3.1714835304205
(407594)	16.0	26.27466	254.77880	99.41485	5.77715	0.1315202	3.1303981304193	(407646)	15.3	315.10747	64.32151	26.56057	23.40065	0.1262227	3.1143082304206
(407595)	15.9	284.41291	340.97839	112.42994	10.68797	0.0658428	3.0551363304193	(407647)	18.1	118.46736	58.86339	188.84521	23.29604	0.1137264	1.8641467304206
(407596)	16.2	269.02838	336.92794	131.82664	12.92028	0.1034118	3.0790517304193	(407648)	17.6	43.01669	301.62434	34.23284	22.84283	0.0193899	1.8500721304206
(407597)	15.9	3.27894	60.27534	310.60391	9.01406	0.0867222	3.0488920304193	(407649)	15.9	280.62396	97.63438	8.84737	25.07805	0.2273255	3.1710231304206
(407598)	16.0	212.66306	213.31413	305.00706	12.24107	0.1227473	3.2145737304194	(407650)	15.6	316.82616	248.55719	190.62911	13.71124	0.1366686	3.2219358304207
(407599)	16.0	158.57737	80.99128	132.32725	9.97592	0.0329718	3.1842855304194	(407651)	15.5	251.99458	91.41020	90.88203	13.06193	0.1428576	3.1495660304207
(407600)	16.2	300.77770	282.63855	150.26120	16.16266	0.1915364	3.1941956304194	(407652)	15.8	258.55152	329.01596	178.28667	27.62414	0.1266476	3.0690702304207
(407601)	16.0	305.71539	145.91749	279.62524	5.04841	0.1077161	3.1070602304194	(407653)	17.0	297.71617	315.30684	172.73559	9.75906	0.5119069	2.0537940304208
(407602)	15.8	268.55892	134.78832	336.64021	15.37354	0.2608578	3.1318676304194	(407654)	18.6	11.23657	188.37392	183.83505	4.85252	0.1628463	2.1487146304208
(407603)	16.3	282.16170	136.96615	319.82434	13.59322	0.1173726	3.1153058304195	(407655)	17.6	332.23725	345.55070	33.07412	4.44397	0.1106587	2.2604491304208
(407604)	16.2	255.84874	121.95259	15.10772	9.08800	0.0895505	3.0648195304195	(407656)	18.2	319.28642	51.46360	59.70678	10.03708	0.4901114	2.2021410304208
(407605)	15.8	299.17301	13.97707	72.02569	10.75276	0.0607717	3.0257999304195	(407657)	18.1	233.58884	314.34576	184.06581	4.42601	0.0150607	2.1882265304211
(407606)	15.7	339.73494	274.33325	131.79750	11.41031	0.1360249	3.0908000304196	(407658)	17.3	103.63654	353.76571	239.08595	6.61316	0.0758157	2.3084153304211
(407607)	17.1	309.27087	30.53603	92.75077	4.59896	0.1478763	2.7356158304196	(407659)	17.8	24.48190	88.30942	241.80664	5.62799	0.1625891	2.2116398304212
(407608)	16.3	305.14049	101.65416	318.32285	16.47261	0.0439201	3.1617937304196	(407660)	18.3	295.32381	84.89814	339.39385	1.51070	0.1125293	2.2713023304212



(407661)	18.1	296.08433	104.36445	322.21990	7.54804	0.0525490	2.2255652304212	(407713)	18.7	344.22235	82.03999	309.12168	0.40315	0.0952277	2.2413979304225
(407662)	17.7	228.87366	100.98520	14.27396	8.31336	0.0837320	2.3059587304212	(407714)	18.0	22.47803	93.75600	239.12620	5.19922	0.2013144	2.2894492304225
(407663)	17.7	38.82542	35.51387	262.30011	1.84699	0.1771301	2.2757937304213	(407715)	16.1	211.06970	242.26303	212.63634	21.41637	0.0480396	2.6742738304225
(407664)	17.5	294.64806	56.51860	354.46540	5.99690	0.1130214	2.3598044304213	(407716)	17.7	302.75233	16.96015	37.97154	10.38064	0.1196223	2.3215492304225
(407665)	18.8	334.62755	42.70303	1.15587	5.03310	0.1460083	2.2054192304213	(407717)	17.9	306.35095	7.36552	43.35855	3.71187	0.1470911	2.3308866304225
(407666)	16.5	210.68624	69.31462	22.41553	9.87700	0.0892661	2.6573957304213	(407718)	18.7	294.86195	143.50734	291.26297	3.90262	0.1850894	2.2426380304226
(407667)	18.0	232.40306	146.94901	0.80692	6.08744	0.0767579	2.1853965304213	(407719)	17.9	2.87933	49.23548	333.61438	1.33767	0.1688406	2.1717073304226
(407668)	17.9	326.61347	216.21823	177.14855	7.06252	0.1042253	2.2818023304214	(407720)	18.3	263.71728	10.24620	103.05209	2.30478	0.1310154	2.3530965304226
(407669)	18.4	17.61748	106.90586	203.34820	5.10306	0.2048418	2.2464399304214	(407721)	17.4	14.05971	270.61678	61.11719	10.11135	0.0688112	2.3792463304226
(407670)	18.0	330.35148	96.92000	297.71298	3.47864	0.1699622	2.2405035304214	(407722)	18.1	283.96509	260.08610	178.91700	2.62881	0.1403919	2.3395012304227
(407671)	18.2	291.84386	272.18381	164.80435	3.22255	0.1740430	2.2461266304214	(407723)	18.2	319.40309	263.11752	146.92812	2.12542	0.1495640	2.2837560304227
(407672)	16.7	156.56692	339.02502	227.15971	11.53624	0.1474103	2.3064194304215	(407724)	17.9	289.32263	127.40625	322.01256	4.50376	0.2026930	2.3079435304227
(407673)	17.5	320.00184	254.93334	143.78107	6.25501	0.0700614	2.2071501304215	(407725)	18.1	355.17372	77.41754	301.35010	5.57106	0.2027576	2.2108213304227
(407674)	17.4	116.17399	275.64826	344.96537	5.84413	0.0187388	2.2017422304215	(407726)	17.9	4.65577	197.91710	179.57845	6.16899	0.1001715	2.2072622304228
(407675)	17.7	283.80286	236.37873	201.94660	6.42617	0.0899922	2.3269650304215	(407727)	18.5	294.95030	322.84649	113.35141	2.31000	0.1528368	2.3513836304228
(407676)	17.7	271.46837	269.06552	197.41392	6.16830	0.0299204	2.2472898304216	(407728)	18.7	299.65370	333.18054	105.55294	4.06469	0.1485546	2.3197862304228
(407677)	17.7	56.30097	301.62516	1.15611	5.86491	0.1108542	2.2795122304216	(407729)	17.6	83.90003	290.14638	8.16015	3.66607	0.0679534	2.1824678304228
(407678)	18.4	309.28275	241.11412	178.26928	2.18864	0.1976875	2.3171705304216	(407730)	18.0	320.03448	357.32100	28.93936	6.74929	0.0889247	2.3532491304228
(407679)	18.7	3.78644	157.42933	215.91341	4.31039	0.1605885	2.1629597304216	(407731)	18.4	314.79373	166.47193	268.73492	2.16396	0.0493609	2.1527009304229
(407680)	17.3	242.19726	259.54631	210.02028	12.27694	0.0936046	2.3531330304217	(407732)	17.2	69.30771	262.26282	40.93908	5.49178	0.1135336	2.2182111304229
(407681)	18.0	28.95567	9.26754	334.20135	3.07901	0.1812134	2.1723647304217	(407733)	17.9	285.85301	7.83362	68.36033	3.95007	0.0875849	2.2771193304229
(407682)	17.4	95.19414	232.08759	42.80847	8.31613	0.1587239	2.1969448304217	(407734)	18.1	272.11551	354.98994	120.81389	2.90381	0.1116963	2.2662110304229
(407683)	18.1	37.02334	279.29657	43.06120	7.03093	0.1102117	2.2826038304217	(407735)	17.9	102.31239	114.29555	153.98953	4.21903	0.1050459	2.1901802304230
(407684)	17.7	343.06698	2.89113	45.62673	7.22274	0.1491206	2.2029228304217	(407736)	18.4	12.52975	358.48688	338.92926	3.82315	0.1596887	2.2228569304230
(407685)	18.5	348.01435	156.02302	240.11316	2.54033	0.1410945	2.1805020304218	(407737)	17.6	240.64902	212.18306	281.92030	5.69296	0.1717414	2.3436813304230
(407686)	16.4	168.18604	210.96312	307.56865	6.35403	0.3059475	2.5793732304218	(407738)	18.0	66.65001	52.64656	254.46756	3.79517	0.1466826	2.1515438304230
(407687)	17.5	265.05368	210.65278	263.17844	4.55716	0.1009221	2.2987530304218	(407739)	17.8	280.46100	208.31014	225.54096	5.85476	0.1410692	2.3886637304231
(407688)	18.0	301.71299	48.64415	12.22267	3.80019	0.1712815	2.3575375304218	(407740)	18.5	63.03594	340.49874	316.61285	1.32100	0.2903285	2.1710005304231
(407689)	17.0	294.63637	49.71744	27.07886	6.96586	0.1024731	2.3292155304219	(407741)	18.4	25.67799	190.07329	163.29148	4.45861	0.2101321	2.1670514304231
(407690)	17.7	219.53963	286.93363	225.62538	6.01541	0.0582158	2.3161554304219	(407742)	18.1	15.64907	291.02093	70.04273	4.12950	0.1536850	2.2423882304231
(407691)	18.8	354.40480	10.22174	22.61938	4.36228	0.1060727	2.1709230304219	(407743)	17.4	308.10948	316.27037	102.62994	4.19971	0.2205666	2.3231445304231
(407692)	18.2	255.32525	133.17770	338.90923	3.19048	0.2127631	2.3520872304219	(407744)	17.6	292.98291	100.54389	318.60301	3.55748	0.1711625	2.4062453304232
(407693)	17.6	86.02933	56.47630	210.14409	5.80335	0.0951613	2.2510221304220	(407745)	18.2	286.50323	39.74386	42.85992	2.34066	0.0141086	2.3045144304232
(407694)	18.0	271.05928	221.29708	242.45615	1.07263	0.1539857	2.3326438304220	(407746)	17.9	10.99011	293.31604	70.46641	5.35282	0.1995657	2.2080593304232
(407695)	18.3	323.52372	65.89767	347.85427	1.77905	0.1878636	2.2565385304220	(407747)	17.5	218.83978	108.35271	64.87767	6.15842	0.0276474	2.2699092304232
(407696)	17.1	176.71010	105.22811	69.42438	8.19517	0.1209537	2.4647460304220	(407748)	16.5	154.65329	312.78463	226.68053	5.16012	0.1762705	2.6237699304233
(407697)	18.1	300.74783	248.53013	179.82483	2.20097	0.1881404	2.3245714304221	(407749)	17.4	24.46252	263.84293	84.89931	6.59935	0.2173231	2.1934266304233
(407698)	18.5	348.32779	153.93937	198.13270	5.81875	0.2222225	2.2318185304221	(407750)	17.0	189.75352	275.71937	244.81092	14.37348	0.0842017	2.5242327304233
(407699)	17.8	208.06115	102.32294	30.40298	6.35368	0.1178359	2.4224596304221	(407751)	18.3	302.59728	179.87225	237.60987	3.74429	0.1347032	2.3923714304234
(407700)	18.3	350.84759	352.45743	29.78222	3.65434	0.0451307	2.2009478304221	(407752)	18.1	281.21439	334.84297	106.89120	4.90919	0.1677901	2.3703605304234
(407701)	16.8	271.66655	208.98713	245.88563	5.63998	0.1498110	2.3553548304222	(407753)	18.2	273.75567	3.03826	100.38908	5.32894	0.1518897	2.3171277304234
(407702)	16.9	215.55984	241.07196	263.86443	5.70812	0.0690510	2.3391922304222	(407754)	18.0	307.16758	221.43615	229.16369	4.05459	0.0905690	2.2298450304234
(407703)	17.2	33.22089	20.76564	251.46637	8.02013	0.1628165	2.5325172304222	(407755)	16.5	296.42671	246.89486	136.26486	4.91909	0.1885637	2.5673986304234
(407704)	17.8	273.47703	31.75067	74.95236	7.08837	0.0485986	2.2626218304222	(407756)	15.9	150.62021	87.18612	122.09354	16.66929	0.2572260	3.0471931304235
(407705)	17.3	343.16531	167.29969	215.44316	6.37262	0.1220388	2.3140115304223	(407757)	17.8	285.67110	8.23164	66.84471	6.14612	0.1332201	2.3437570304235
(407706)	18.3	266.42299	334.66377	123.47519	9.13072	0.0942843	2.2980416304223	(407758)	17.7	223.56258	291.57789	218.17035	4.66833	0.0145806	2.3321608304235
(407707)	17.7	10.39107	244.63614	102.40299	6.25969	0.1772507	2.2493247304223	(407759)	17.9	311.99753	342.23046	100.76989	4.65679	0.1091038	2.2504015304235
(407708)	17.8	303.66704	214.61103	224.24987	6.63762	0.0685300	2.2634026304223	(407760)	18.1	316.90846	10.78064	53.10818	3.10885	0.1338080	2.3045323304236
(407709)	18.1	274.24952	120.32385	335.70055	3.79201	0.1531650	2.3443588304224	(407761)	18.5	359.42155	86.17073	298.93359	3.28668	0.1756068	2.2231810304236
(407710)	17.5	314.48624	354.63393	71.84101	5.47332	0.1155046	2.2707106304224	(407762)	18.2	287.40068	43.33335	56.60076	2.56899	0.1489612	2.3084302304236
(407711)	17.8	71.81373	8.69373	256.68379	5.73260	0.0812058	2.3331406304224	(407763)	16.5	336.05181	125.74212	214.49266	14.15448	0.1750760	2.5446272304236
(407712)	18.2	0.86795	181.93246	203.35878	4.89848	0.1000357	2.2275358304224	(407764)	17.2	137.17253	299.73042	258.97392	7.66533	0.1102525	2.5765311304237



(407765)	17.7	226.34717	235.92247	264.12010	1.53569	0.1313970	2.4139570304237	(407817)	15.9	151.51351	49.75819	117.94900	21.02225	0.1103750	3.1898461304249
(407766)	17.7	165.72579	49.06429	145.51257	1.79168	0.1003270	2.4285840304237	(407818)	16.9	241.98873	8.89578	125.46827	4.61577	0.1089485	2.6350257304250
(407767)	17.6	357.64418	317.32714	54.61780	4.40295	0.1317366	2.3300440304237	(407819)	17.2	359.38665	240.34380	131.09425	10.40814	0.1006488	2.5273880304250
(407768)	17.9	332.88738	315.28661	71.58686	6.86140	0.2080218	2.3138796304238	(407820)	17.4	323.16722	16.29682	62.36322	8.31210	0.2038171	2.3009636304250
(407769)	18.1	33.35889	21.46720	320.66930	1.98402	0.1670449	2.2272136304238	(407821)	17.7	313.32768	128.96388	305.29075	5.11945	0.0997806	2.4101718304250
(407770)	17.8	252.28106	3.27802	113.28019	5.09341	0.1699412	2.4433269304238	(407822)	17.5	224.10699	98.28873	102.52176	6.56372	0.0434056	2.3038989304251
(407771)	17.7	342.18490	17.07548	39.40675	2.03014	0.1470996	2.2307764304238	(407823)	17.1	336.07533	317.52362	91.54906	7.30102	0.1470026	2.4349233304251
(407772)	17.9	42.47927	114.00317	211.81589	2.78504	0.1352817	2.2675808304239	(407824)	17.1	41.66933	209.17037	112.31818	6.11420	0.1071403	2.6000345304251
(407773)	17.7	305.91407	338.52336	81.01178	5.56673	0.2194188	2.3519303304239	(407825)	16.1	163.37771	35.11610	135.99550	18.60673	0.1107554	3.0378584304251
(407774)	16.4	254.85770	305.83077	107.34280	15.36718	0.1880606	2.7163938304239	(407826)	16.3	336.52132	265.10215	129.10005	21.92694	0.3355014	2.4163116304252
(407775)	18.2	285.92537	267.36259	185.77263	1.91430	0.1663569	2.3283132304239	(407827)	17.9	305.43145	321.63814	132.28644	5.25175	0.1931693	2.3440498304252
(407776)	17.5	309.83773	103.86988	322.94838	6.46767	0.1110640	2.3479234304240	(407828)	16.5	255.08715	157.76383	305.03417	10.28040	0.1171921	2.6786750304252
(407777)	17.6	188.12144	208.72779	310.52784	1.08131	0.1487268	2.5462643304240	(407829)	16.1	202.95326	45.49529	80.16211	9.84500	0.0831876	3.0052104304252
(407778)	18.1	6.60250	114.04616	232.06152	4.19226	0.1666946	2.3556927304240	(407830)	16.9	18.14544	53.76947	308.65118	8.62358	0.1534823	2.5701573304253
(407779)	17.9	314.09292	87.31367	322.13830	0.97949	0.1594578	2.3759861304240	(407831)	16.3	146.16382	89.60517	145.86528	14.51947	0.1262179	2.7612428304253
(407780)	17.0	44.38719	182.89580	97.88992	15.49934	0.1016530	2.5426811304240	(407832)	17.0	299.40966	276.16826	176.20506	2.99097	0.1514614	2.4286262304253
(407781)	17.6	287.18862	49.57145	53.65263	2.12742	0.1464574	2.3717254304241	(407833)	15.4	101.62985	107.48487	126.27560	26.43173	0.2365532	3.1680594304253
(407782)	17.5	287.01706	127.42606	334.13018	4.46867	0.0961197	2.3951942304241	(407834)	17.1	281.07942	314.78255	166.31287	2.67376	0.1176012	2.4291801304254
(407783)	16.7	315.27540	294.06367	94.51854	15.69551	0.1144009	2.5866141304241	(407835)	15.8	177.99370	203.84112	304.95861	15.61572	0.0259609	3.0565845304254
(407784)	16.8	177.57571	282.77983	268.60046	7.60239	0.1107392	2.5789637304241	(407836)	16.2	189.46724	232.54542	304.74983	10.41980	0.1356486	2.7510895304254
(407785)	16.7	6.46141	294.23292	98.70780	9.88258	0.0583196	2.3437971304242	(407837)	16.3	295.93241	292.43687	134.27733	22.51869	0.0370369	2.6561182304255
(407786)	17.4	311.86666	53.80397	338.04157	2.22054	0.0437229	2.6046350304242	(407838)	16.3	214.74389	201.32231	304.73677	12.46482	0.0495409	2.6547941304255
(407787)	16.5	255.19547	147.48090	304.34084	11.13637	0.1597005	2.6832741304242	(407839)	17.2	260.15441	304.87030	132.45051	0.83470	0.0449909	2.7731076304255
(407788)	17.1	139.34898	117.78698	87.55231	8.11685	0.1524873	2.5879036304242	(407840)	15.7	55.46164	116.75922	150.29427	18.74428	0.0034926	3.1181698304255
(407789)	17.2	337.64034	253.43390	132.04736	5.29423	0.2034614	2.4510749304243	(407841)	16.6	213.27853	228.74493	275.74788	11.66784	0.2005960	2.6954209304256
(407790)	18.1	288.06873	347.45535	106.93674	5.34223	0.0612106	2.3098083304243	(407842)	16.0	42.54831	193.98934	104.72755	19.03331	0.2138489	2.7816065304256
(407791)	17.7	289.79479	177.06291	275.59402	1.69235	0.1677375	2.4414424304243	(407843)	16.2	263.96706	216.85668	251.76290	11.03166	0.2367969	2.5638163304256
(407792)	17.0	305.29887	276.80026	116.65736	6.38452	0.0073958	2.7875677304243	(407844)	16.3	93.23706	248.11860	336.04081	10.00414	0.0489679	3.0867810304256
(407793)	17.1	320.20772	133.78323	282.36764	6.13461	0.0804805	2.4666070304244	(407845)	18.0	332.28783	144.25820	272.81903	4.81976	0.1241944	2.2581551304257
(407794)	17.1	259.21389	186.34121	268.97906	13.96448	0.0462651	2.5669607304244	(407846)	17.4	262.32830	17.24476	92.02244	2.75726	0.0902088	2.5674712304257
(407795)	17.6	292.60096	346.73613	97.05376	2.30983	0.1538248	2.4714695304244	(407847)	17.4	317.22606	303.75446	130.40878	9.69294	0.0866635	2.5296902304257
(407796)	18.4	310.44037	141.45408	315.77538	5.30575	0.1872720	2.2996121304244	(407848)	16.6	228.29679	171.36037	323.53997	15.64969	0.0346064	2.7955643304257
(407797)	16.8	298.08583	312.09297	104.97410	12.40597	0.1528202	2.5876298304245	(407849)	16.5	234.34342	181.05501	327.98593	12.87002	0.2005740	2.6545997304257
(407798)	17.7	298.73126	344.86241	69.05434	4.48503	0.1296385	2.6113033304245	(407850)	17.6	322.78206	312.34456	130.82830	5.81482	0.2022634	2.3815845304258
(407799)	17.3	180.56121	258.14411	279.30183	4.00881	0.0924277	2.6984579304245	(407851)	16.9	220.12782	151.23613	6.17223	4.85144	0.0969746	2.7311785304258
(407800)	17.2	341.01583	155.91591	214.71408	6.79356	0.1280757	2.5734511304245	(407852)	16.3	213.88696	353.02096	132.39844	10.65891	0.0342039	3.0731585304258
(407801)	18.0	333.26263	187.06006	233.30214	2.80879	0.2220994	2.3203369304245	(407853)	18.5	343.62475	23.87831	23.71450	2.45245	0.2187945	2.3241271304259
(407802)	17.0	286.60639	205.59373	229.50534	3.51582	0.1936447	2.5729861304246	(407854)	16.6	191.98080	245.54196	265.75004	3.67555	0.0529980	2.8162434304259
(407803)	16.2	256.15674	141.08555	314.16963	10.98683	0.0347145	2.7321670304246	(407855)	16.8	328.02884	203.98144	162.08802	4.42941	0.0844277	2.7816468304259
(407804)	17.1	288.21821	125.95526	332.95538	4.56697	0.1145272	2.4666874304246	(407856)	16.9	86.69792	86.93743	155.58810	8.90105	0.0803092	2.9959746304259
(407805)	17.7	355.38383	261.85028	138.13908	5.89321	0.1586732	2.2917410304247	(407857)	16.7	33.13476	171.58195	122.57338	11.65553	0.0686725	3.0379284304259
(407806)	17.2	223.08782	155.86331	331.72000	3.01194	0.1187986	2.7489012304247	(407858)	16.3	151.70105	219.04936	317.39654	10.89095	0.0636207	3.0626361304260
(407807)	17.9	346.90078	334.57523	77.33527	5.21374	0.1821034	2.2878972304247	(407859)	17.3	307.00584	294.16952	117.83783	9.76639	0.1814777	2.5989627304260
(407808)	17.3	229.58211	38.73198	109.07460	3.29850	0.0810474	2.5319526304247	(407860)	17.3	184.25799	219.23701	321.49642	2.09659	0.0553789	2.7167935304260
(407809)	17.4	2.51896	269.15842	106.47568	7.93828	0.1243871	2.4019254304247	(407861)	16.2	151.07625	44.31133	127.46719	14.63820	0.0810508	3.1416944304260
(407810)	16.3	116.98072	307.85566	287.07005	12.88615	0.0098430	2.6635853304248	(407862)	17.5	276.27888	176.29133	276.02661	2.60966	0.1827105	2.6037745304261
(407811)	16.9	333.95528	104.03947	291.62256	8.59721	0.1545109	2.4619486304248	(407863)	17.0	230.81210	297.84068	190.95583	1.40144	0.0353553	2.7874443304261
(407812)	17.7	254.91509	271.76372	209.20899	2.04006	0.0662270	2.5607587304248	(407864)	15.3	100.13376	281.27331	314.90749	14.56006	0.1993614	3.1693745304261
(407813)	16.5	294.69368	147.72821	283.36264	13.94415	0.0665436	2.5831292304248	(407865)	16.7	116.29242	71.94531	159.29042	5.48149	0.1614849	3.1353892304262
(407814)	17.4	10.70668	254.61037	114.64566	9.50226	0.2315195	2.3706305304249	(407866)	16.9	1.93525	142.82009	236.56748	5.03922	0.1061886	2.4478789304262
(407815)	16.9	205.23657	198.62401	295.95895	8.16149	0.0766870	2.8482271304249	(407867)	15.9	89.21659	287.38946	315.47430	8.72301	0.0960210	3.0469730304262
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(408077)	15.5	298.18738	270.87279	188.68201	11.83649	0.1236907	3.0187894304312	(408129)	17.2	139.53062	248.02215	307.03928	6.54090	0.0590950	2.3388037304324
(408078)	15.4	205.58486	0.98148	154.67150	17.58611	0.1946951	3.2988537304312	(408130)	17.8	115.10593	243.23283	348.95698	6.47000	0.0550487	2.2754200304325
(408079)	15.9	249.01819	332.11542	162.56347	11.48548	0.0359493	3.1226556304312	(408131)	18.3	179.74301	231.63092	288.77265	2.19213	0.1019718	2.2896416304325
(408080)	16.4	246.26909	290.24180	214.73851	3.28109	0.0862192	2.9789399304313	(408132)	17.5	111.95256	31.79290	172.33463	7.25557	0.1913119	2.6676543304325
(408081)	16.2	283.19630	100.86843	355.59632	9.40578	0.0733350	2.9845440304313	(408133)	18.1	195.09251	216.24286	291.57078	5.79525	0.0157809	2.2321228304325
(408082)	15.8	158.92600	181.53158	39.73801	9.21182	0.0420317	3.1516444304313	(408134)	18.3	134.92741	37.45626	172.56844	5.83238	0.1628124	2.3417394304325
(408083)	15.8	183.34299	50.00927	155.80403	8.91456	0.1245174	3.1700638304313	(408135)	17.9	135.32477	33.89763	185.10842	4.49962	0.1357988	2.2538142304326
(408084)	15.9	194.31345	339.76428	208.85318	8.93092	0.0347441	3.1107394304314	(408136)	18.2	123.00010	46.36187	180.30528	5.47475	0.1045531	2.2011349304326
(408085)	16.3	219.64483	332.27796	177.01948	15.06251	0.1704488	3.1847897304314	(408137)	17.8	148.40134	255.36154	299.57910	5.16164	0.1370794	2.3194170304326
(408086)	15.8	235.61929	228.19554	261.51787	6.12131	0.1226830	3.0932666304314	(408138)	16.9	95.96254	272.85380	319.51786	11.65440	0.2327241	2.6657130304326
(408087)	15.7	237.19275	300.68210	197.23518	10.46770	0.0628273	3.1559810304314	(408139)	17.7	148.94004	258.29026	301.50572	7.16434	0.1547592	2.3309039304327
(408088)	16.1	356.37087	28.55684	32.01644	22.72468	0.0527704	2.6545366304314	(408140)	17.9	52.90548	320.13722	352.77836	7.53332	0.0840057	2.1583980304327
(408089)	15.8	222.54022	134.33687	18.13252	9.63528	0.0319490	3.0665985304315	(408141)	17.5	143.40321	217.84290	348.31845	5.61154	0.0804536	2.2835317304327
(408090)	16.2	235.26335	325.32084	175.42888	8.18850	0.1214322	3.0252450304315	(408142)	17.0	47.80005	319.85982	310.53254	5.38612	0.1953420	2.6306617304327
(408091)	15.5	238.18376	273.06331	214.09468	20.67910	0.1782531	3.1712140304315	(408143)	17.5	66.91453	51.96207	213.37314	3.99181	0.2057225	2.5660800304328
(408092)	15.3	228.51278	321.02682	193.64601	18.42066	0.1010079	3.1986441304315	(408144)	17.2	316.90283	252.83808	111.58876	8.35296	0.1405122	2.2978330304328
(408093)	15.9	220.58602	108.92514	43.43634	12.81273	0.1064683	3.1486754304316	(408145)	17.7	140.00379	233.02199	328.45164	11.37724	0.1733539	2.3642470304328
(408094)	16.1	345.76300	5.14086	57.91889	12.29797	0.0534303	3.0737291304316	(408146)	17.6	101.91529	194.66004	31.02039	5.83466	0.1855133	2.5556179304328
(408095)	15.6	284.55672	274.56126	168.51384	10.05207	0.0548563	3.5030369304316	(408147)	17.5	151.61832	38.70937	154.94463	10.33433	0.1519631	2.3939949304329
(408096)	16.1	272.35713	253.50631	204.36613	8.80942	0.1237909	3.2424772304316	(408148)	18.0	118.09352	136.01098	110.57662	4.12218	0.1215637	2.2196826304329
(408097)	17.8	279.89673	175.55397	237.96326	20.95330	0.0940800	1.8370007304316	(408149)	16.1	73.71148	88.65299	135.68600	22.20729	0.0357458	2.6496411304329
(408098)	18.5	160.33956	159.66222	47.25714	6.23174	0.1519322	1.9968894304317	(408150)	17.2	69.86378	270.56110	343.88022	11.33822	0.0887718	2.5694667304329
(408099)	18.3	163.25410	67.44041	114.83472	4.19704	0.0799457	2.2194948304317	(408151)	17.6	137.30456	84.62576	138.88853	7.05752	0.0549608	2.1925976304329
(408100)	17.9	145.31122	284.05767	314.20776	18.60360	0.0117149	1.8672588304317	(408152)	17.9	189.05943	18.07089	151.49004	6.24691	0.0653363	2.2154735304330
(408101)	18.4	121.05831	268.18579	314.71904	2.13599	0.1827901	2.2199274304318	(408153)	18.5	171.66095	147.54645	37.03835	0.96063	0.0870599	2.1614686304330
(408102)	16.8	72.99924	138.27434	102.13977	14.25223	0.2315887	2.5704402304318	(408154)	18.1	95.12463	278.32234	346.76237	6.25115	0.1453827	2.1906005304330
(408103)	18.0	216.06192	197.46192	318.77273	17.57503	0.0564658	1.9706926304318	(408155)	17.6	84.08553	271.69413	9.92095	7.52829	0.1248967	2.1927470304331
(408104)	17.5	129.03431	111.72029	74.97557	3.38330	0.1381074	2.4583591304318	(408156)	17.2	122.56270	226.24281	339.23448	7.11891	0.0925133	2.5363298304331
(408105)	18.7	350.05282	93.74712	299.26874	5.93400	0.0941502	1.9061873304318	(408157)	18.2	147.59433	222.05063	357.34233	2.71390	0.1078580	2.1986431304331
(408106)	16.6	79.94949	323.55385	246.13047	10.84317	0.1101530	2.6333108304319	(408158)	17.2	70.82636	268.15238	342.27447	15.19734	0.1364852	2.537064304331
(408107)	16.4	88.99280	170.48294	95.42990	9.71352	0.1630993	2.7946279304319	(408159)	18.4	242.57663	93.08632	11.29773	3.17670	0.0880909	2.2182990304331
(408108)	17.6	177.81217	28.52636	156.47944	7.57106	0.0444027	2.3224155304319	(408160)	17.4	58.27645	143.12275	142.24205	6.56277	0.2178850	2.5372404304332
(408109)	16.4	77.40726	254.86436	333.98550	12.67550	0.1754350	2.6798091304319	(408161)	18.3	126.47190	69.54358	160.88980	2.51184	0.1539171	2.3583852304332
(408110)	17.8	179.13907	46.67114	123.96966	5.15780	0.0890620	2.1951855304320	(408162)	18.0	134.98991	72.88885	154.28454	6.68203	0.1185299	2.2698451304332
(408111)	17.8	115.38154	134.43030	92.14413	2.64849	0.2000458	2.3281878304320	(408163)	17.0	58.20634	263.61850	34.18343	6.81950	0.1485954	2.3140118304332
(408112)	17.4	78.43694	356.22000	264.83260	4.98086	0.2371822	2.3657006304320	(408164)	18.1	136.54647	78.87003	157.66397	4.51719	0.1197473	2.2178491304333
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(408121)	17.2	77.61463	229.73739	15.26846	5.75624	0.1500040	2.5210545304322	(408173)	16.5	105.17644	173.74103	101.22047	6.94844	0.1177925	2.4163094304335
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(408389)	16.6	156.43614	288.89798	254.76394	6.12685	0.1275276	2.6058129304389	(408441)	17.5	136.62429	136.33098	68.08724	4.38175	0.1320454	2.7404637304402
(408390)	17.8	238.20442	299.39143	183.10269	7.80397	0.0362970	2.3370558304389	(408442)	17.0	69.66118	162.30944	135.14876	5.72748	0.2308372	2.6964714304402
(408391)	17.8	201.63294	291.57878	239.74947	5.14682	0.1050525	2.2310195304389	(408443)	17.2	127.78340	240.06565	347.57103	3.01216	0.1755471	2.5644935304402
(408392)	17.4	111.26036	274.60466	333.83462	6.22887	0.1294548	2.5696096304389	(408444)	15.2	53.33886	172.44619	123.90592	14.80202	0.1682664	3.1997987304402
(408393)	17.3	209.42389	273.06211	246.31130	5.12814	0.1300698	2.3049245304390	(408445)	16.7	168.18927	320.48794	204.22713	15.45071	0.1991855	2.6768664304403
(408394)	16.2	85.95823	211.97018	72.36668	14.20982	0.1523877	2.6231691304390	(408446)	16.3	189.04062	294.14964	225.37335	12.03987	0.1067399	2.6112819304403
(408395)	16.7	56.98407	243.47145	32.82640	4.13748	0.1806928	3.0322423304390	(408447)	17.1	123.50448	110.52958	135.18358	5.63894	0.0967211	2.4254683304403
(408396)	15.3	38.06650	240.20490	77.71952	8.89142	0.1254366	3.0213299304390	(408448)	17.5	172.16416	311.47704	230.45965	2.96543	0.1399130	2.5214394304403
(408397)	16.9	139.85276	279.76151	286.95422	4.82422	0.2055045	2.6516825304391	(408449)	16.7	146.12197	112.75214	92.68112	14.09417	0.1374418	2.5763692304404
(408398)	17.3	173.75693	124.66805	71.27734	5.93848	0.1701429	2.3924688304391	(408450)	17.5	175.30024	352.43078	199.77470	7.56504	0.0726561	2.3459514304404
(408399)	17.2	134.37450	222.94278	353.57890	7.52448	0.1811160	2.6426961304391	(408451)	15.6	126.30396	121.36439	100.60420	11.87330	0.0425707	2.9763096304404
(408400)	16.8	125.19227	318.78799	289.68493	5.28631	0.0978376	2.4397785304392	(408452)	16.0	44.23259	205.24600	118.24362	18.77556	0.2152776	3.0646654304404
(408401)	16.0	80.88928	40.70190	231.27169	12.47586	0.0822450	2.7287944304392	(408453)	17.1	191.38024	136.09399	29.59510	4.30437	0.1510461	2.5321199304404
(408402)	17.4	204.34688	145.73270	23.85325	6.95610	0.0555830	2.3361491304392	(408454)	16.7	114.59281	144.79855	99.35430	8.97302	0.1210660	2.7744467304405
(408403)	16.5	164.57511	359.11787	195.10933	12.90368	0.0930477	2.5726641304392	(408455)	17.2	313.69894	73.57917	309.13712	4.67739	0.0436942	2.7307566304405
(408404)	16.5	92.03448	174.30661	76.78247	1.73589	0.2273237	3.0477486304392	(408456)	17.8	286.35390	74.13181	353.79518	7.51492	0.1222115	2.4104167304405
(408405)	17.1	145.08266	29.62515	165.44994	5.32214	0.1037668	2.6767648304393	(408457)	17.3	32.19188	29.42139	280.43605	3.26763	0.0556061	2.7835094304405
(408406)	17.8	200.44250	126.40081	52.46463	7.55757	0.0350232	2.2617813304393	(408458)	15.7	19.24068	293.42419	12.98189	10.84398	0.0557989	3.0777020304406
(408407)	16.6	37.69819	127.30731	175.08546	9.08603	0.1269809	2.9901155304393	(408459)	17.5	293.02642	89.54612	331.32144	5.93935	0.1046834	2.4137412304406
(408408)	17.5	97.86596	228.65291	41.20798	11.22875	0.1924442	2.5480492304393	(408460)	16.4	44.02100	284.00250	353.94648	6.47767	0.1377208	3.1811621304406
(408409)	17.7	264.63717	284.33832	179.28178	1.88411	0.0487626	2.2634324304394	(408461)	17.3	109.30730	355.38414	249.85786	2.73917	0.1310038	2.5989088304406
(408410)	17.6	141.93295	173.53126	43.83895	3.89264	0.1233493	2.5311149304394	(408462)	17.3	44.46619	30.35706	265.59563	2.98309	0.0800933	2.7853394304407
(408411)	16.7	52.01228	184.83152	142.16780	6.33022	0.1889573	2.5885661304394	(408463)	16.9	71.39267	356.58391	268.61608	4.32219	0.0780937	2.8378263304407
(408412)	16.0	22.30176	249.77129	70.15805	4.11519	0.1514326	3.1901855304394	(408464)	18.4	273.23634	206.79090	240.88303	3.79169	0.1103321	2.3156849304407
(408413)	17.0	75.02202	147.55434	155.97571	7.51628	0.1428871	2.5641786304395	(408465)	17.4	86.32233	8.49738	245.90671	2.33146	0.0678839	2.7478994304407
(408414)	16.7	127.16938	84.60778	126.20980	12.70273	0.1745891	2.7430110304395	(408466)	17.4	212.47390	268.12209	234.16168	5.67288	0.0700575	2.4293960304407
(408415)	17.2	57.04178	157.22410	128.83374	4.12057	0.0779786	2.7500169304395	(408467)	18.4	314.57991	58.68279	352.17610	6.47871	0.0984787	2.3386924304408
(408416)	16.5	69.40450	197.52487	56.96452	9.62997	0.0579114	3.0100492304395	(408468)	17.6	218.21924	140.72318	12.50279	6.88464	0.0621152	2.2915480304408
(408417)	17.3	302.65510	239.48416	195.10981	9.69274	0.0615600	2.2862604304395	(408469)	17.4	23.77258	310.52802	10.66851	3.56143	0.0951740	2.7812807304408
(408418)	17.5	133.02379	132.28433	109.95814	3.24296	0.0419408	2.3779687304396	(408470)	18.0	46.44484	317.41508	356.46356	4.84196	0.0922836	2.5989227304408
(408419)	17.3	45.42389	325.42406	59.27081	22.66665	0.0923257	1.9667027304396	(408471)	17.0	358.99417	13.27566	323.15867	0.85599	0.1293674	2.9967313304409
(408420)	15.4	127.49658	109.49557	79.26366	10.94194	0.1689451	3.1458116304396	(408472)	17.4	1.26004	294.99997	46.14911	0.43060	0.0800194	2.8048830304409
(408421)	16.5	50.07233	248.52740	31.54795	12.87819	0.1566446	3.1589482304397	(408473)	17.0	67.91071	291.49951	9.55672	3.39910	0.1810985	2.6298994304409
(408422)	17.8	137.04546	34.12548	199.07712	7.60571	0.0725619	2.3619774304397	(408474)	17.3	11.43067	121.78215	207.30714	2.73497	0.0674547	2.7277453304410
(408423)	17.0	91.66910	237.37822	67.76757	12.08327	0.2074297	2.4036222304397	(408475)	17.3	91.39262	249.28550	351.96533	2.45639	0.2093790	2.9714039304410
(408424)	16.5	65.18173	209.03532	91.20296	10.07701	0.1482892	2.7216695304397	(408476)	17.0	173.73897	323.95616	209.03493	14.69955	0.0554778	2.5490730304410
(408425)	16.1	94.75608	159.98725	100.30758	14.81005	0.1518271	2.6871797304398	(408477)	17.3	30.09860	308.98437	9.44900	4.79894	0.1109105	2.7245019304410
(408426)	17.5	244.84567	35.92012	68.91062	6.98508	0.1125371	2.3905989304398	(408478)	17.1	59.98661	257.92470	17.40951	6.42832	0.0191854	2.7893253304411
(408427)	15.9	142.24662	335.73419	202.44697	14.96114	0.1358683	3.2139182304398	(408479)	18.3	22.75984	166.10095	188.12903	0.75207	0.2032972	2.4210725304411
(408428)	16.1	51.60762	192.50107	76.99909	11.63815	0.0576583	3.0555742304398	(408480)	17.4	60.38432	95.51235	189.47604	3.70706	0.2071536	2.9649317304411
(408429)	16.6	107.99377	77.66228	173.03582	14.87066	0.1097270	2.6285006304399	(408481)	17.7	11.47372	336.17210	39.78929	6.62542	0.0962598	2.2329480304411
(408430)	15.8	48.03986	218.01065	69.45643	16.20424	0.1260882	2.8640642304399	(408482)	17.3	11.34900	129.67460	202.37795	5.61682	0.0428280	2.7430717304411
(408431)	17.3	131.04066	172.73887	47.78269	3.85285	0.0957004	2.5948105304399	(408483)	17.2	47.11273	289.88800	25.12942	4.41485	0.1974654	2.6475400304412
(408432)	17.6	229.84492	300.94483	191.73470	17.77869	0.0890597	2.3825437304399	(408484)	17.6	296.68069	229.97540	190.01031	6.28475	0.1173445	2.4406536304412
(408433)	15.9	46.77986	160.64509	148.22527	23.94856	0.1967826	3.1134471304400	(408485)	16.3	93.96469	343.18518	258.63301	4.01946	0.1625994	3.0625399304412
(408434)	16.4	176.94545	324.12903	201.29097	11.65285	0.1413155	2.6057824304400	(408486)	17.9	238.52890	58.48029	72.09519	6.62917	0.1035335	2.2759465304413
(408435)	16.7	46.64471	82.81232	212.29385	6.01032	0.0469986	2.9241729304400	(408487)	17.1	65.12355	242.82541	54.67207	6.70244	0.1213953	2.7366333304413
(408436)	16.2	138.81180	315.95201	263.85152	12.43820	0.1262032	2.6290204304400	(408488)	17.2	78.41051	135.58703	152.46853	4.05719	0.0750377	2.7483623304413
(408437)	16.8	153.34183	64.44098	134.66211	6.52172	0.1886887	2.6198249304400	(408489)	17.8	229.96390	101.45673	46.16585	1.15162	0.1485243	2.2675921304413
(408438)	16.8	165.01726	293.20015	260.11776	3.30356	0.1556426	2.5840417304401	(408490)	16.9	9.84474	129.19260	216.00540	5.02255	0.0419310	2.7170278304413
(408439)	16.1	86.83702	267.46511	42.36127	7.47124	0.2102586	2.5482992304401	(408491)	17.4	218.94647	40.94405	100.29387	3.76960	0.0831974	2.4870373304414
(408440)	16.3	43.89241	158.38485	150.56443	2.73986	0.2464213	3.0452813304401	(408492)	17.1	101.69067	128.32232	125.17339	3.16576	0.1772528	2.7855714304414



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(408701)	17.9	99.79499	14.47595	220.03288	4.60892	0.1137906	2.2524709304468
(408702)	17.2	74.54945	90.21347	150.94971	4.39730	0.2367464	2.5817375304469
(408703)	15.7	340.51163	224.64554	129.50287	7.47359	0.0671211	3.1811697304469
(408704)	15.8	320.86090	271.54175	124.65297	26.76348	0.2466249	3.1776047304469
(408705)	17.4	5.33029	146.07438	183.99866	1.57274	0.0380838	2.7141410304470
(408706)	16.2	314.97907	262.05050	127.71851	9.72720	0.1257674	3.0055442304470
(408707)	15.6	263.77665	324.71603	99.65350	12.65758	0.1025970	3.0632153304470
(408708)	17.2	132.97223	117.32420	90.71755	6.26204	0.0331026	2.2663147304470
(408709)	17.8	48.48392	205.72563	94.22804	5.27771	0.2029720	2.2155968304471
(408710)	17.7	51.87975	153.26261	124.57221	2.90523	0.1641448	2.4005125304471
(408711)	18.3	16.38212	16.70342	328.55332	7.95775	0.2999016	2.5255571304471
(408712)	17.5	19.33507	250.93125	92.50830	7.32567	0.1856237	2.2942073304471
(408713)	17.4	62.86560	184.56827	103.76789	6.49003	0.1045202	2.2919360304472
(408714)	15.7	316.09754	54.57702	323.29595	9.05950	0.1298388	3.0202479304472
(408715)	17.9	56.53569	16.45276	266.49075	3.62504	0.2082220	2.1739324304472
(408716)	16.4	30.86790	16.58197	282.16794	6.82197	0.0400125	3.1906424304472
(408717)	17.3	66.99210	320.86195	298.94697	5.59689	0.1954388	2.3180200304473
(408718)	16.8	104.04103	0.70907	226.02653	2.90678	0.0205667	2.6217815304473
(408719)	16.9	341.67734	103.08899	256.51761	2.56171	0.1101752	2.7611768304473
(408720)	16.8	353.91209	98.32316	243.02684	1.12951	0.0712080	2.8863783304474
(408721)	17.0	52.15043	104.54834	166.08110	2.36479	0.1174852	3.0197429304474
(408722)	18.1	83.35028	133.00888	112.65674	3.30296	0.1617030	2.2708047304474
(408723)	17.3	118.46864	182.80051	27.69350	3.92596	0.0358696	2.7800128304474
(408724)	16.3	299.25499	292.63169	109.36471	10.62884	0.0869878	3.0344565304475
(408725)	17.8	72.13427	266.31428	350.95168	3.01668	0.1612073	2.3892778304475
(408726)	18.0	58.68386	286.67304	355.27946	3.82023	0.1237064	2.2377442304475
(408727)	15.7	323.52696	268.14690	110.98488	10.98702	0.0827354	3.0311760304475
(408728)	17.0	106.33365	99.77347	114.47151	10.02604	0.1422667	2.6679711304476
(408729)	17.5	303.96522	312.77259	99.04730	3.24552	0.1520567	2.4566085304476
(408730)	16.9	21.67860	251.57201	59.24225	2.92469	0.0893513	2.8890546304476
(408731)	17.4	303.75645	307.76609	92.89341	2.86929	0.0301228	2.6211057304477
(408732)	16.6	264.37679	23.48049	59.64190	2.92018	0.0651921	2.8573960304477
(408733)	17.6	88.87175	161.10507	89.39980	5.09510	0.1144288	2.2050410304477
(408734)	17.3	116.00671	128.31793	98.73049	7.54641	0.0769201	2.3472660304477
(408735)	18.0	67.56349	181.29206	350.04087	3.16094	0.1654324	2.1765664304478
(408736)	17.0	75.00422	223.55916	23.55956	1.39763	0.1595485	2.8051160304478
(408737)	18.0	113.34170	216.06870	358.06189	2.57395	0.1460777	2.4263236304478
(408738)	17.1	129.04318	184.38192	14.52254	4.88512	0.0627686	2.4134547304478
(408739)	15.9	350.61184	1.47448	336.52812	8.88961	0.0894665	3.1797389304479
(408740)	18.7	14.25085	352.81710	349.93664	3.88984	0.1804835	2.2463032304479
(408741)	17.8	83.33051	40.48585	209.56923	2.06324	0.1389460	2.2713582304479
(408742)	16.8	46.14975	351.59636	339.59261	11.11297	0.3149460	2.4154535304480
(408743)	15.5	311.42641	276.90639	126.76366	16.77357	0.2364425	3.1611606304480
(408744)	16.5	320.39520	273.52499	126.47392	13.98589	0.1742354	2.6712961304480
(408745)	14.9	27.08331	354.25157	327.78953	27.93317	0.1760159	3.1796173304481
(408746)	17.4	79.63681	153.14009	93.59799	4.15710	0.1656349	2.3922856304481
(408747)	17.3	326.05821	320.91609	90.31862	6.29718	0.2043176	2.3461043304481
(408748)	18.9	49.54832	282.48778	12.27446	2.18440	0.1701537	2.1575605304481
(408749)	16.9	40.01186	205.39739	96.85035	5.80979	0.1860105	2.6634235304482
(408750)	17.4	9.19582	185.20054	195.78198	5.05285	0.2659363	2.5833498304482

## SUMMARY OF IDENTIFICATIONS

The following identifications are invalid:

2001 WD <sub>9</sub>	= 2009 SA <sub>163</sub>	MPO 161843
2005 TZ <sub>87</sub>	= 2010 VD <sub>8</sub>	MPO 282652
2008 EC <sub>54</sub>	= 2013 TP <sub>153</sub>	MPO 282813
2010 JS <sub>22</sub>	= 2006 JB <sub>40</sub>	MPO 176605
2012 CT <sub>1</sub>	= 2010 UF <sub>50</sub>	MPO 223081
2014 ON <sub>46</sub>	= 2007 TY <sub>85</sub>	MPO 302037

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

1995 SW <sub>20</sub>	= 2014 QJ <sub>48</sub>
1995 UL <sub>40</sub>	= 2014 QH <sub>325</sub>
1998 BU <sub>16</sub>	= 2014 QX <sub>344</sub>
1998 QO <sub>58</sub>	= 2014 QA <sub>311</sub>
1998 RU <sub>48</sub>	= 2014 QB <sub>309</sub>
1998 SR <sub>32</sub>	= 2014 QV <sub>353</sub>
1999 FU <sub>81</sub>	= 2014 QM <sub>143</sub>
1999 JD <sub>111</sub>	= 2014 QY <sub>150</sub>
2000 SZ <sub>48</sub>	= 2014 QY <sub>388</sub>
2001 FY <sub>207</sub>	= 2014 QM <sub>102</sub>
2001 NH <sub>13</sub>	= 2014 QK <sub>281</sub>
2001 PT <sub>60</sub>	= 2014 QO <sub>192</sub>
2001 QN <sub>329</sub>	= 2014 QX <sub>18</sub>
2001 RQ <sub>43</sub>	= 2014 QQ <sub>168</sub>
2001 RZ <sub>109</sub>	= 2014 QY <sub>305</sub>
2001 SS <sub>86</sub>	= 2014 QM <sub>162</sub>
2001 SU <sub>144</sub>	= 2014 QJ <sub>376</sub>
2001 SS <sub>172</sub>	= 2014 QD <sub>348</sub>
2001 SN <sub>174</sub>	= 2014 QH <sub>336</sub>
2001 SD <sub>182</sub>	= 2014 QZ <sub>384</sub>
2001 SB <sub>192</sub>	= 2014 QU <sub>361</sub>
2001 SZ <sub>195</sub>	= 2014 QB <sub>134</sub>
2001 SU <sub>236</sub>	= 2014 QT <sub>327</sub>
2001 SE <sub>300</sub>	= 2014 QL <sub>19</sub>
2001 SA <sub>309</sub>	= 2014 QY <sub>79</sub>
2001 TO <sub>193</sub>	= 2014 QG <sub>207</sub>
2001 TT <sub>232</sub>	= 1999 FG <sub>75</sub> = 2006 VP <sub>112</sub>
2001 UR <sub>4</sub>	= 2014 QV <sub>139</sub>
2001 UB <sub>201</sub>	= 2014 QJ <sub>168</sub>
2001 UO <sub>226</sub>	= 2014 QO <sub>28</sub>
2001 VY <sub>124</sub>	= 2014 QV <sub>14</sub>
2001 WO <sub>95</sub>	= 2013 JO <sub>60</sub> = 2014 QO <sub>389</sub>
2001 XK <sub>72</sub>	= 2014 QE <sub>20</sub>
2001 YC <sub>4</sub>	= 2005 YM <sub>3</sub>
2001 YY <sub>35</sub>	= 2014 QK <sub>106</sub>
2002 CM <sub>128</sub>	= 2014 QA <sub>330</sub>
2002 CO <sub>257</sub>	= 2013 EH <sub>36</sub> = 2014 OA <sub>310</sub>
2002 JX <sub>136</sub>	= 2014 QF <sub>381</sub>
2002 JB <sub>151</sub>	= 2014 QW <sub>285</sub>
2002 OK <sub>30</sub>	= 2010 CH <sub>122</sub>



2002 PC<sub>179</sub> = 2008 CB<sub>111</sub>  
 2002 QG<sub>53</sub> = 2014 QF<sub>280</sub>  
 2002 QG<sub>102</sub> = 2014 QL<sub>155</sub>  
 2002 QE<sub>124</sub> = 2014 QM<sub>340</sub>  
 2002 QW<sub>126</sub> = 2014 PY<sub>63</sub>  
 2002 RS<sub>164</sub> = 2014 QA<sub>117</sub>  
 2002 RW<sub>194</sub> = 2007 VG<sub>251</sub>  
 2002 SL<sub>9</sub> = 2014 QD<sub>180</sub>  
 2002 TM<sub>149</sub> = 2013 GO<sub>109</sub> = 2014 QD<sub>267</sub>  
 2002 TP<sub>328</sub> = 2014 QS<sub>371</sub>  
 2002 TS<sub>381</sub> = 2014 QK<sub>176</sub>  
 2002 UP<sub>54</sub> = 2014 QR<sub>273</sub>  
 2002 US<sub>55</sub> = 2014 QJ<sub>280</sub>  
 2002 UT<sub>56</sub> = 2014 QZ<sub>54</sub>  
 2002 UV<sub>73</sub> = 2014 QG<sub>285</sub>  
 2002 XT<sub>72</sub> = 1995 WO<sub>24</sub>  
 2003 BK<sub>21</sub> = 2014 PX<sub>60</sub>  
 2003 BQ<sub>54</sub> = 2014 QT<sub>94</sub>  
 2003 SH<sub>52</sub> = 2014 QU<sub>384</sub>  
 2003 SY<sub>151</sub> = 2014 QS<sub>170</sub>  
 2003 SY<sub>226</sub> = 2014 QM<sub>359</sub>  
 2003 SQ<sub>239</sub> = 2014 QB<sub>112</sub>  
 2003 SZ<sub>262</sub> = 2014 QV<sub>328</sub>  
 2003 SQ<sub>302</sub> = 2014 QH<sub>375</sub>  
 2003 SP<sub>307</sub> = 2014 QC<sub>19</sub>  
 2003 SY<sub>323</sub> = 2014 QS<sub>359</sub>  
 2003 SF<sub>335</sub> = 2014 QG<sub>163</sub>  
 2003 SE<sub>347</sub> = 2014 QZ<sub>109</sub>  
 2003 SK<sub>349</sub> = 2014 QA<sub>236</sub>  
 2003 SX<sub>359</sub> = 2014 QA<sub>325</sub>  
 2003 SQ<sub>360</sub> = 2014 QD<sub>226</sub>  
 2003 SO<sub>366</sub> = 2014 QE<sub>270</sub>  
 2003 SY<sub>387</sub> = 2014 QA<sub>333</sub>  
 2003 SO<sub>392</sub> = 2014 QH<sub>150</sub>  
 2003 SY<sub>397</sub> = 2014 QY<sub>199</sub>  
 2003 SL<sub>417</sub> = 2014 QT<sub>335</sub>  
 2003 SE<sub>422</sub> = 2014 QJ<sub>322</sub>  
 2003 SB<sub>429</sub> = 2014 QH<sub>358</sub>  
 2003 SJ<sub>433</sub> = 2014 QK<sub>247</sub>  
 2003 TN<sub>45</sub> = 2014 QJ<sub>170</sub>  
 2003 UX<sub>45</sub> = 2014 QX<sub>170</sub>  
 2003 UA<sub>113</sub> = 2014 QF<sub>367</sub>  
 2003 UB<sub>113</sub> = 2014 QD<sub>261</sub>  
 2003 UW<sub>128</sub> = 2014 QR<sub>382</sub>  
 2003 UO<sub>152</sub> = 2014 QC<sub>268</sub>  
 2003 UC<sub>240</sub> = 2014 QG<sub>152</sub>  
 2003 UF<sub>299</sub> = 2014 QP<sub>336</sub>  
 2003 UQ<sub>362</sub> = 2014 QM<sub>306</sub>  
 2003 UZ<sub>402</sub> = 2014 QS<sub>228</sub>  
 2003 WL<sub>27</sub> = 2014 QK<sub>181</sub>  
 2003 WC<sub>40</sub> = 2014 QQ<sub>42</sub>  
 2003 YN<sub>166</sub> = 2011 YA<sub>69</sub> = 2013 LP<sub>13</sub> = 2014 QC<sub>306</sub>

2004 DR<sub>13</sub> = 2014 QD<sub>303</sub>  
 2004 EU<sub>57</sub> = 2014 QL<sub>200</sub>  
 2004 RK<sub>52</sub> = 2014 QC<sub>351</sub>  
 2004 RV<sub>52</sub> = 2014 QR<sub>325</sub>  
 2004 RX<sub>72</sub> = 2014 QB<sub>152</sub>  
 2004 RO<sub>95</sub> = 2014 QB<sub>23</sub>  
 2004 RY<sub>211</sub> = 2014 QA  
 2004 RK<sub>236</sub> = 2014 QH<sub>124</sub>  
 2004 RL<sub>265</sub> = 2014 QX<sub>159</sub>  
 2004 RP<sub>293</sub> = 2014 QT<sub>228</sub>  
 2004 RH<sub>299</sub> = 2014 QZ<sub>337</sub>  
 2004 TO<sub>54</sub> = 2014 QS<sub>376</sub>  
 2004 TN<sub>70</sub> = 2014 QN<sub>194</sub>  
 2004 TY<sub>95</sub> = 2014 QH<sub>159</sub>  
 2004 TL<sub>97</sub> = 2014 QC<sub>42</sub>  
 2004 TL<sub>117</sub> = 2014 QB<sub>173</sub>  
 2004 TO<sub>146</sub> = 2014 QY<sub>67</sub>  
 2004 TA<sub>148</sub> = 2014 QA<sub>180</sub>  
 2004 TP<sub>150</sub> = 2014 QU<sub>158</sub>  
 2004 TK<sub>151</sub> = 2014 QW<sub>69</sub>  
 2004 TA<sub>153</sub> = 2014 QB<sub>39</sub>  
 2004 TQ<sub>155</sub> = 2014 QX<sub>110</sub>  
 2004 TX<sub>179</sub> = 2014 QP<sub>98</sub>  
 2004 TJ<sub>185</sub> = 2014 QE<sub>374</sub>  
 2004 TM<sub>347</sub> = 2014 QP<sub>68</sub>  
 2004 TZ<sub>351</sub> = 2014 QV<sub>384</sub>  
 2005 AA<sub>17</sub> = 2014 QH<sub>376</sub>  
 2005 AY<sub>66</sub> = 2014 PE<sub>65</sub>  
 2005 CE<sub>8</sub> = 2014 QL<sub>102</sub>  
 2005 EW<sub>327</sub> = 2014 QV<sub>161</sub>  
 2005 GX<sub>205</sub> = 2002 UG<sub>70</sub> = 2014 PY<sub>64</sub>  
 2005 JB<sub>28</sub> = 2014 QJ<sub>288</sub>  
 2005 JU<sub>55</sub> = 2014 QR<sub>284</sub>  
 2005 JS<sub>100</sub> = 2014 QN<sub>346</sub>  
 2005 JA<sub>131</sub> = 2014 QA<sub>158</sub>  
 2005 LQ<sub>1</sub> = 2014 QD<sub>330</sub>  
 2005 LW<sub>13</sub> = 2014 PY<sub>60</sub>  
 2005 NF<sub>26</sub> = 2014 QN<sub>13</sub>  
 2005 NF<sub>42</sub> = 2014 QJ<sub>330</sub>  
 2005 NB<sub>52</sub> = 2004 FD<sub>166</sub> = 2014 QJ<sub>174</sub>  
 2005 OX<sub>6</sub> = 2014 OH<sub>300</sub>  
 2005 OV<sub>13</sub> = 2014 OF<sub>231</sub> = 2014 QX<sub>336</sub>  
 2005 QJ<sub>3</sub> = 2014 QJ<sub>1</sub>  
 2005 QB<sub>16</sub> = 2012 FF<sub>82</sub> = 2014 QT<sub>167</sub>  
 2005 QU<sub>46</sub> = 2011 SA<sub>222</sub>  
 2005 QX<sub>54</sub> = 2014 QP<sub>18</sub>  
 2005 QA<sub>76</sub> = 2014 QE<sub>377</sub>  
 2005 QE<sub>81</sub> = 2014 QW<sub>26</sub>  
 2005 QL<sub>97</sub> = 2014 QD<sub>367</sub>  
 2005 QN<sub>114</sub> = 2014 QQ<sub>152</sub>  
 2005 QA<sub>123</sub> = 2014 QD<sub>59</sub>  
 2005 QN<sub>187</sub> = 2014 QK<sub>300</sub>



2005 RG<sub>6</sub> = 2014 QN<sub>307</sub>  
 2005 RP<sub>26</sub> = 2014 QS<sub>309</sub>  
 2005 SY<sub>4</sub> = 2014 QM<sub>88</sub>  
 2005 SS<sub>11</sub> = 2014 PO<sub>64</sub>  
 2005 SC<sub>51</sub> = 2014 QM<sub>365</sub>  
 2005 SV<sub>66</sub> = 2014 QE<sub>171</sub>  
 2005 SZ<sub>67</sub> = 2014 QV<sub>336</sub>  
 2005 SD<sub>72</sub> = 2014 PH<sub>66</sub>  
 2005 SM<sub>159</sub> = 2014 QL<sub>20</sub>  
 2005 SJ<sub>180</sub> = 2014 QX<sub>333</sub>  
 2005 SD<sub>182</sub> = 2014 QV<sub>379</sub>  
 2005 SN<sub>212</sub> = 2014 QA<sub>286</sub>  
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 2005 SS<sub>284</sub> = 2014 QX<sub>331</sub>  
 2005 SY<sub>284</sub> = 2014 QV<sub>135</sub>  
 2005 SA<sub>291</sub> = 2014 QW<sub>359</sub>  
 2005 TC<sub>25</sub> = 2014 QB<sub>20</sub>  
 2005 TJ<sub>32</sub> = 2014 QL<sub>301</sub>  
 2005 TS<sub>68</sub> = 2014 QA<sub>135</sub>  
 2005 TR<sub>83</sub> = 2014 QE<sub>240</sub>  
 2005 TS<sub>108</sub> = 2014 QL<sub>240</sub>  
 2005 TM<sub>150</sub> = 2014 QJ<sub>272</sub>  
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 2005 TL<sub>155</sub> = 2014 QY<sub>213</sub>  
 2005 UA<sub>5</sub> = 2014 QV<sub>137</sub>  
 2005 UZ<sub>144</sub> = 2014 PA<sub>67</sub>  
 2005 UR<sub>179</sub> = 2014 QN<sub>269</sub>  
 2005 UB<sub>229</sub> = 2014 QD<sub>17</sub>  
 2005 UF<sub>231</sub> = 2014 QY<sub>374</sub>  
 2005 UR<sub>269</sub> = 2014 QJ<sub>264</sub>  
 2005 UQ<sub>313</sub> = 2014 QN<sub>366</sub>  
 2005 UV<sub>349</sub> = 2014 QE<sub>32</sub>  
 2005 UB<sub>361</sub> = 2014 QF<sub>96</sub>  
 2005 US<sub>368</sub> = 2014 QJ<sub>359</sub>  
 2005 UZ<sub>434</sub> = 2014 QA<sub>375</sub>  
 2005 UX<sub>439</sub> = 2014 QV<sub>386</sub>  
 2005 VG<sub>64</sub> = 2014 QM<sub>134</sub>  
 2005 VJ<sub>130</sub> = 2014 QL<sub>47</sub>  
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 2005 XP<sub>63</sub> = 2014 QV<sub>236</sub>  
 2005 XO<sub>64</sub> = 2014 QM<sub>140</sub>  
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 2005 YH<sub>44</sub> = 2014 OP<sub>91</sub>  
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 2005 YA<sub>96</sub> = 2014 QY<sub>218</sub>  
 2005 YT<sub>111</sub> = 2014 QW<sub>248</sub>

2005 YN<sub>159</sub> = 2014 QB<sub>111</sub>  
 2005 YH<sub>178</sub> = 2014 QT<sub>15</sub>  
 2005 YD<sub>188</sub> = 2014 QM<sub>251</sub>  
 2005 YW<sub>250</sub> = 2014 QE<sub>221</sub>  
 2006 AV<sub>22</sub> = 2014 QY<sub>1</sub>  
 2006 AE<sub>35</sub> = 2014 QV<sub>199</sub>  
 2006 AW<sub>35</sub> = 2014 QU<sub>246</sub>  
 2006 AK<sub>40</sub> = 2014 QQ<sub>246</sub>  
 2006 AJ<sub>48</sub> = 2014 QM<sub>241</sub>  
 2006 AQ<sub>67</sub> = 2014 QC<sub>15</sub>  
 2006 AL<sub>97</sub> = 2014 QX<sub>287</sub>  
 2006 BN<sub>37</sub> = 2014 QO<sub>167</sub>  
 2006 BB<sub>40</sub> = 2014 QV<sub>316</sub>  
 2006 BX<sub>262</sub> = 2014 QG<sub>123</sub>  
 2006 BL<sub>278</sub> = 2014 QQ<sub>102</sub>  
 2006 BM<sub>283</sub> = 2014 QS<sub>28</sub>  
 2006 CE<sub>19</sub> = 2014 QP<sub>105</sub>  
 2006 CQ<sub>26</sub> = 2014 QD<sub>281</sub>  
 2006 CB<sub>53</sub> = 2014 QS<sub>62</sub>  
 2006 CX<sub>68</sub> = 2014 QE<sub>244</sub>  
 2006 DW<sub>27</sub> = 2014 QT<sub>301</sub>  
 2006 DW<sub>28</sub> = 2014 QP<sub>358</sub>  
 2006 DO<sub>132</sub> = 2014 QP<sub>177</sub>  
 2006 DJ<sub>142</sub> = 2014 QF<sub>134</sub>  
 2006 DN<sub>142</sub> = 2014 QQ<sub>356</sub>  
 2006 DA<sub>145</sub> = 2014 QM<sub>302</sub>  
 2006 GJ<sub>7</sub> = 2014 QC<sub>331</sub>  
 2006 HF<sub>79</sub> = 2014 QQ<sub>318</sub>  
 2006 JJ<sub>45</sub> = 2014 QJ<sub>25</sub>  
 2006 KY<sub>93</sub> = 2014 QF<sub>339</sub>  
 2006 PM<sub>25</sub> = 2010 EU<sub>88</sub>  
 2006 QS<sub>66</sub> = 2014 QC<sub>353</sub>  
 2006 QV<sub>69</sub> = 2014 QA<sub>131</sub>  
 2006 RX<sub>70</sub> = 2014 QH<sub>136</sub>  
 2006 RU<sub>119</sub> = 2014 QH<sub>243</sub>  
 2006 SS<sub>110</sub> = 2014 QO<sub>345</sub>  
 2006 SO<sub>171</sub> = 2014 QR<sub>352</sub>  
 2006 SH<sub>229</sub> = 2014 QK<sub>165</sub>  
 2006 TK<sub>10</sub> = 2014 QU<sub>170</sub>  
 2006 TY<sub>49</sub> = 2014 QP<sub>346</sub>  
 2006 TK<sub>118</sub> = 2014 QB<sub>330</sub>  
 2006 US<sub>28</sub> = 2014 QR<sub>343</sub>  
 2006 UY<sub>49</sub> = 2014 QA<sub>155</sub>  
 2006 UU<sub>102</sub> = 2014 QU<sub>276</sub>  
 2006 UQ<sub>111</sub> = 2014 QR<sub>220</sub>  
 2006 UR<sub>117</sub> = 2014 QX<sub>40</sub>  
 2006 UE<sub>150</sub> = 2014 QD<sub>270</sub>  
 2006 UE<sub>193</sub> = 2014 QD<sub>349</sub>  
 2006 UD<sub>257</sub> = 2014 QX<sub>95</sub>  
 2006 VR<sub>10</sub> = 2014 PS<sub>60</sub>  
 2006 VB<sub>123</sub> = 2014 QY<sub>11</sub>  
 2006 VP<sub>134</sub> = 2014 QU<sub>304</sub>



2006 WJ<sub>25</sub> = 2014 QZ<sub>267</sub>  
 2006 WQ<sub>131</sub> = 2014 QQ<sub>294</sub>  
 2006 XG<sub>73</sub> = 2014 QC<sub>274</sub>  
 2006 YD<sub>17</sub> = 2014 QK<sub>376</sub>  
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 2007 BZ<sub>28</sub> = 2014 LE<sub>5</sub>  
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 2007 CR<sub>43</sub> = 2014 QH<sub>59</sub>  
 2007 DX<sub>10</sub> = 2014 QV<sub>7</sub>  
 2007 DJ<sub>59</sub> = 2014 QK<sub>63</sub>  
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 2007 EV<sub>42</sub> = 2014 QW<sub>346</sub>  
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 2007 EQ<sub>57</sub> = 2014 QB<sub>28</sub>  
 2007 EF<sub>175</sub> = 2014 QP<sub>94</sub>  
 2007 FU<sub>7</sub> = 2014 QZ<sub>378</sub>  
 2007 GA<sub>48</sub> = 2014 QJ<sub>292</sub>  
 2007 HE<sub>49</sub> = 2014 QB<sub>274</sub>  
 2007 LX<sub>5</sub> = 2014 QG<sub>254</sub>  
 2007 PO<sub>46</sub> = 2014 QJ<sub>270</sub>  
 2007 RS<sub>6</sub> = 2014 QN<sub>70</sub>  
 2007 RU<sub>48</sub> = 2014 QZ<sub>262</sub>  
 2007 RP<sub>51</sub> = 2013 HG<sub>58</sub>  
 2007 RG<sub>151</sub> = 2014 QM<sub>323</sub>  
 2007 RF<sub>200</sub> = 2014 QF<sub>47</sub>  
 2007 RJ<sub>227</sub> = 2014 QJ<sub>342</sub>  
 2007 RP<sub>261</sub> = 2014 QQ<sub>178</sub>  
 2007 RC<sub>271</sub> = 2014 QP<sub>156</sub>  
 2007 RK<sub>295</sub> = 2010 KK<sub>130</sub>  
 2007 SW<sub>21</sub> = 2014 QO<sub>309</sub>  
 2007 TG<sub>63</sub> = 2014 QP<sub>146</sub>  
 2007 TY<sub>106</sub> = 2014 QS<sub>141</sub>  
 2007 TA<sub>109</sub> = 2014 QQ<sub>321</sub>  
 2007 TF<sub>160</sub> = 2007 UF<sub>141</sub>  
 2007 TD<sub>196</sub> = 2014 QT<sub>118</sub>  
 2007 TV<sub>202</sub> = 2014 QT<sub>355</sub>  
 2007 TM<sub>249</sub> = 2014 QT<sub>35</sub>  
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 2007 TC<sub>271</sub> = 2014 QS<sub>308</sub>  
 2007 TY<sub>321</sub> = 2014 PV<sub>63</sub>  
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 2007 TD<sub>377</sub> = 2007 UR<sub>35</sub>  
 2007 TV<sub>383</sub> = 2014 QF<sub>244</sub>  
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 2007 UN<sub>58</sub> = 2014 OH<sub>349</sub>  
 2007 UO<sub>84</sub> = 2007 VO<sub>94</sub>  
 2007 UR<sub>103</sub> = 2003 TE<sub>44</sub>  
 2007 UG<sub>132</sub> = 2007 WO<sub>59</sub> = 2014 QF<sub>104</sub>  
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 2007 VR<sub>39</sub> = 2007 TA<sub>138</sub>

2007 VP<sub>123</sub> = 2014 QW<sub>169</sub>  
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 2007 VL<sub>212</sub> = 2014 QX<sub>253</sub>  
 2007 VW<sub>216</sub> = 2014 QE<sub>301</sub>  
 2007 VN<sub>221</sub> = 2014 QM<sub>210</sub>  
 2007 VD<sub>231</sub> = 2014 QT<sub>22</sub>  
 2007 VH<sub>253</sub> = 2014 PL<sub>70</sub>  
 2007 YE<sub>3</sub> = 2014 QG<sub>323</sub>  
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 2008 CO<sub>206</sub> = 2014 QZ<sub>297</sub>  
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 2008 FS<sub>56</sub> = 2008 GK<sub>135</sub> = 2014 QX<sub>313</sub>  
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 2008 UY<sub>55</sub> = 2014 QZ<sub>351</sub>  
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 2008 UE<sub>294</sub> = 2014 QQ<sub>108</sub>  
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 2009 BE<sub>23</sub> = 2014 QQ<sub>126</sub>  
 2009 BT<sub>178</sub> = 2014 OW<sub>111</sub>  
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2009 DR<sub>110</sub> = 2013 CJ<sub>77</sub>  
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2010 RH<sub>51</sub> = 2014 QO<sub>262</sub>  
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 2010 TV<sub>14</sub> = 2014 QN<sub>230</sub>  
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 2010 UY<sub>56</sub> = 2010 NQ<sub>112</sub>  
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 2010 VE<sub>176</sub> = 2014 QJ<sub>385</sub>  
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 2010 VU<sub>180</sub> = 2014 QJ<sub>108</sub>  
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 2010 VX<sub>209</sub> = 2014 QG<sub>305</sub>  
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 2010 XO<sub>27</sub> = 2014 QK<sub>139</sub>  
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 2011 BZ<sub>145</sub> = 2014 QS<sub>167</sub>



2011 BV<sub>149</sub> = 2014 QF<sub>210</sub>  
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 2011 SR<sub>107</sub> = 2010 JC<sub>173</sub>  
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 2011 UX<sub>321</sub> = 2014 PV<sub>65</sub>  
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 2011 WX<sub>12</sub> = 2014 QF<sub>289</sub>  
 2011 WJ<sub>62</sub> = 2014 QS<sub>218</sub>  
 2011 WN<sub>67</sub> = 2014 QV<sub>181</sub>  
 2011 YK<sub>8</sub> = 2014 QL<sub>257</sub>  
 2011 YH<sub>48</sub> = 2014 QA<sub>159</sub>  
 2011 YN<sub>58</sub> = 2007 BF<sub>60</sub>  
 2011 YC<sub>60</sub> = 2014 QO<sub>386</sub>  
 2011 YS<sub>69</sub> = 2014 QH<sub>260</sub>  
 2012 AY<sub>2</sub> = 2014 QP<sub>337</sub>  
 2012 BW<sub>8</sub> = 2014 QV<sub>381</sub>  
 2012 BL<sub>17</sub> = 2014 QY<sub>175</sub>  
 2012 BA<sub>69</sub> = 2014 QJ<sub>332</sub>  
 2012 BO<sub>84</sub> = 2014 QK<sub>269</sub>  
 2012 BR<sub>98</sub> = 2014 QR<sub>313</sub>  
 2012 BX<sub>111</sub> = 2014 QM<sub>22</sub>  
 2012 BB<sub>118</sub> = 2014 QH<sub>269</sub>  
 2012 BB<sub>122</sub> = 2014 QN<sub>305</sub>  
 2012 BF<sub>140</sub> = 2014 QU<sub>381</sub>  
 2012 BX<sub>146</sub> = 2014 QB<sub>383</sub>  
 2012 CA<sub>16</sub> = 2014 QV<sub>297</sub>  
 2012 CP<sub>21</sub> = 2014 QJ<sub>181</sub>  
 2012 CK<sub>30</sub> = 2014 QM<sub>221</sub>  
 2012 CX<sub>37</sub> = 2014 QD<sub>282</sub>  
 2012 CJ<sub>40</sub> = 2014 QD<sub>312</sub>  
 2012 DY<sub>11</sub> = 2014 QB<sub>235</sub>  
 2012 DT<sub>41</sub> = 2014 QK<sub>255</sub>  
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 2012 DK<sub>48</sub> = 2014 QW<sub>375</sub>  
 2012 DE<sub>63</sub> = 2012 BB<sub>107</sub>  
 2012 DC<sub>75</sub> = 2010 WC<sub>2</sub> = 2014 QE<sub>229</sub>

2012 DF<sub>84</sub> = 2014 QG<sub>352</sub>  
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 2012 EB<sub>13</sub> = 2014 QU<sub>212</sub>  
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 2012 FV<sub>17</sub> = 2006 SE<sub>317</sub> = 2014 QT<sub>130</sub>  
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 2012 FZ<sub>43</sub> = 2014 QB<sub>368</sub>  
 2012 FW<sub>52</sub> = 2014 QQ<sub>149</sub>  
 2012 FX<sub>56</sub> = 2012 FT<sub>83</sub> = 2014 QJ<sub>352</sub>  
 2012 FF<sub>70</sub> = 2014 QP<sub>245</sub>  
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 2012 FZ<sub>79</sub> = 2009 QY<sub>37</sub> = 2014 QB<sub>356</sub>  
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 2012 JC<sub>58</sub> = 2011 BH<sub>92</sub> = 2014 QO<sub>331</sub>  
 2012 UK<sub>59</sub> = 2006 MV<sub>3</sub>  
 2012 XO<sub>58</sub> = 2002 PE<sub>158</sub>  
 2012 YC = 2014 QU  
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 2013 BJ<sub>45</sub> = 2003 MQ<sub>7</sub>  
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 2013 CJ<sub>79</sub> = 2014 QE<sub>267</sub>  
 2013 CA<sub>112</sub> = 2008 UY<sub>242</sub> = 2011 US<sub>168</sub> = 2014 PM<sub>63</sub>  
 2013 CE<sub>114</sub> = 2014 QO<sub>198</sub>  
 2013 CB<sub>123</sub> = 2014 QR<sub>63</sub>  
 2013 CG<sub>134</sub> = 2010 NH<sub>32</sub>  
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 2013 EX<sub>23</sub> = 2014 QC<sub>354</sub>  
 2013 EH<sub>58</sub> = 2014 QP<sub>143</sub>  
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 2013 EM<sub>94</sub> = 2005 JV<sub>99</sub>  
 2013 EY<sub>101</sub> = 2014 QZ<sub>63</sub>  
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 2013 FC<sub>10</sub> = 2014 QO<sub>361</sub>  
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 2013 GX<sub>23</sub> = 2013 GY<sub>1</sub> = 2014 QX<sub>207</sub>  
 2013 GR<sub>28</sub> = 2014 QR<sub>5</sub>  
 2013 GA<sub>66</sub> = 2014 QU<sub>61</sub>  
 2013 GE<sub>83</sub> = 2014 QV<sub>155</sub>



2013 GU<sub>85</sub> = 2014 QW<sub>72</sub>  
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 2013 GL<sub>101</sub> = 2014 QL<sub>154</sub>  
 2013 GC<sub>116</sub> = 2014 QL<sub>112</sub>  
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 2013 HV<sub>31</sub> = 2014 QB<sub>189</sub>  
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 2013 HH<sub>33</sub> = 2014 QO<sub>53</sub>  
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 2013 HU<sub>74</sub> = 2014 QH<sub>236</sub>  
 2013 HB<sub>80</sub> = 2014 QU<sub>50</sub>  
 2013 HO<sub>88</sub> = 2014 QJ<sub>40</sub>  
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 2013 HH<sub>110</sub> = 2014 QL<sub>104</sub>  
 2013 HT<sub>119</sub> = 2006 SY<sub>239</sub> = 2014 QN<sub>270</sub>  
 2013 HK<sub>120</sub> = 2007 TT<sub>190</sub> = 2014 QG<sub>339</sub>  
 2013 HR<sub>126</sub> = 2014 QQ<sub>375</sub>  
 2013 HS<sub>128</sub> = 2014 QN<sub>137</sub>  
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 2013 HD<sub>138</sub> = 2014 QF<sub>229</sub>  
 2013 HX<sub>145</sub> = 2014 QO<sub>59</sub>  
 2013 JD = 2014 QE<sub>314</sub>  
 2013 JM<sub>1</sub> = 2014 QF<sub>355</sub>  
 2013 JF<sub>14</sub> = 2014 QH<sub>258</sub>  
 2013 JU<sub>15</sub> = 2014 QZ<sub>268</sub>  
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2013 KR<sub>3</sub> = 2003 TQ<sub>21</sub>  
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 2014 DJ<sub>1</sub> = 2011 FW<sub>109</sub>  
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 2014 DN<sub>29</sub> = 1998 DN<sub>7</sub> = 2005 PH<sub>11</sub>  
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 2014 DV<sub>66</sub> = 1996 VA<sub>18</sub>  
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 2014 EH<sub>22</sub> = 2004 RP<sub>119</sub>  
 2014 EJ<sub>25</sub> = 2010 EP<sub>38</sub>  
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 2014 FL<sub>10</sub> = 2005 JK<sub>84</sub>  
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2014 FU<sub>49</sub> = 2005 UA<sub>506</sub>  
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 2014 HC<sub>28</sub> = 2010 CK<sub>169</sub>  
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2014 HX<sub>180</sub> = 2010 MC<sub>50</sub> = 2011 YM<sub>28</sub>  
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 2014 JP = 2004 YF<sub>23</sub> = 2008 YY<sub>123</sub> = 2010 CQ<sub>228</sub>  
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 2014 JB<sub>6</sub> = 2008 VW<sub>56</sub>  
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 2014 JW<sub>50</sub> = 2010 JC<sub>41</sub>  
 2014 JF<sub>51</sub> = 2010 MH<sub>73</sub>  
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 2014 JH<sub>61</sub> = 2007 TT<sub>101</sub>  
 2014 JA<sub>62</sub> = 2008 FL<sub>114</sub>  
 2014 JK<sub>62</sub> = 2009 BL<sub>116</sub>



2014 JZ<sub>64</sub> = 2005 YE<sub>229</sub> = 2010 FD<sub>2</sub>  
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 2014 JL<sub>66</sub> = 2006 HN<sub>117</sub>  
 2014 JN<sub>66</sub> = 2010 LO<sub>67</sub>  
 2014 JD<sub>67</sub> = 2006 DB<sub>129</sub>  
 2014 JE<sub>67</sub> = 2011 UQ<sub>166</sub> = 2013 CS<sub>187</sub>  
 2014 JK<sub>67</sub> = 2013 CF<sub>132</sub>  
 2014 JP<sub>67</sub> = 2007 VV<sub>76</sub>  
 2014 JL<sub>68</sub> = 2010 JU<sub>51</sub>  
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 2014 JT<sub>74</sub> = 2009 HJ<sub>15</sub>  
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 2014 JL<sub>75</sub> = 2007 LP<sub>31</sub>  
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 2014 KQ<sub>3</sub> = 2006 JB<sub>23</sub> = 2010 ER<sub>41</sub> = 2011 PO<sub>14</sub>  
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 2014 KW<sub>6</sub> = 2012 XX<sub>4</sub>  
 2014 KJ<sub>7</sub> = 2008 UW<sub>253</sub>  
 2014 KL<sub>9</sub> = 2006 VO<sub>144</sub>  
 2014 KM<sub>9</sub> = 2006 SR<sub>413</sub> = 2006 SS<sub>413</sub> = 2011 VF<sub>16</sub>  
 2014 KD<sub>18</sub> = 2006 UZ<sub>15</sub>  
 2014 KQ<sub>23</sub> = 2010 UQ<sub>87</sub>  
 2014 KY<sub>23</sub> = 2009 CU<sub>61</sub> = 2013 AF<sub>86</sub>  
 2014 KY<sub>24</sub> = 1999 MG<sub>2</sub> = 2013 BO<sub>22</sub>  
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 2014 KP<sub>27</sub> = 2010 MM<sub>115</sub>  
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 2014 KT<sub>27</sub> = 2007 RS<sub>211</sub> = 2010 BW<sub>128</sub> = 2010 PM<sub>15</sub>  
 2014 KS<sub>29</sub> = 2013 AQ<sub>34</sub>  
 2014 KM<sub>30</sub> = 2011 SS<sub>54</sub> = 2013 BH<sub>82</sub>  
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 2014 KY<sub>33</sub> = 2008 BG<sub>30</sub> = 2010 PH<sub>2</sub>  
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 2014 KU<sub>40</sub> = 2005 GP<sub>164</sub> = 2011 SA<sub>90</sub> = 2011 UL<sub>40</sub>  
 2014 KV<sub>40</sub> = 2006 KX<sub>108</sub>

2014 KB<sub>41</sub> = 2005 UU<sub>437</sub>  
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 2014 KJ<sub>53</sub> = 1998 SU<sub>19</sub>  
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 2014 KY<sub>68</sub> = 2005 UE<sub>499</sub>  
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 2014 KV<sub>89</sub> = 2010 OL<sub>2</sub>  
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 2014 KW<sub>92</sub> = 2010 VC<sub>131</sub>  
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 2014 KQ<sub>95</sub> = 2008 RC<sub>13</sub>  
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 2014 KC<sub>101</sub> = 2010 HB<sub>27</sub>  
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 2014 LP<sub>2</sub> = 2011 SO<sub>185</sub>  
 2014 LL<sub>4</sub> = 2011 UM<sub>219</sub>



2014 LT<sub>4</sub> = 2010 TE<sub>144</sub>  
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 2014 LT<sub>11</sub> = 2014 MN<sub>34</sub> = 2002 EL<sub>24</sub>  
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 2014 LM<sub>14</sub> = 2011 QT<sub>28</sub> = 2013 CY<sub>76</sub>  
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 2014 LX<sub>19</sub> = 2010 UE<sub>106</sub>  
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 2014 MQ<sub>21</sub> = 2014 LB<sub>13</sub>  
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2014 MN<sub>43</sub> = 2011 UC<sub>162</sub>  
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2014 NC<sub>44</sub> = 2010 AS<sub>117</sub>  
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 2014 NE<sub>54</sub> = 2010 KQ<sub>94</sub>  
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 2014 NB<sub>55</sub> = 2013 GB<sub>86</sub>  
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 2014 NK<sub>62</sub> = 2012 BO<sub>40</sub>  
 2014 NP<sub>62</sub> = 2010 UX<sub>98</sub>  
 2014 NF<sub>63</sub> = 2011 FZ<sub>85</sub>  
 2014 NZ<sub>63</sub> = 2008 AF<sub>90</sub>  
 2014 NY<sub>64</sub> = 1995 VL<sub>9</sub>  
 2014 NM<sub>65</sub> = 2004 FY<sub>45</sub>  
 2014 OJ = 2013 GC<sub>40</sub>  
 2014 OA<sub>1</sub> = 1996 TP<sub>47</sub> = 2007 VL<sub>227</sub>  
 2014 OU<sub>1</sub> = 2014 QG<sub>75</sub>

2014 OD<sub>2</sub> = 2004 YC<sub>30</sub> = 2007 PT<sub>38</sub>  
 2014 ON<sub>2</sub> = 2010 US<sub>37</sub>  
 2014 OC<sub>3</sub> = 2009 UZ<sub>2</sub> = 2010 AD<sub>128</sub> = 2011 BG<sub>146</sub>  
 2014 OD<sub>3</sub> = 2003 WY<sub>167</sub>  
 2014 OE<sub>3</sub> = 2002 CW<sub>273</sub> = 2002 FW<sub>41</sub>  
 2014 OG<sub>3</sub> = 2007 VO<sub>4</sub>  
 2014 OK<sub>3</sub> = 2005 YG<sub>141</sub>  
 2014 OL<sub>3</sub> = 2004 TU<sub>255</sub>  
 2014 ON<sub>3</sub> = 2011 TF<sub>3</sub>  
 2014 OO<sub>3</sub> = 2012 DS<sub>91</sub>  
 2014 ON<sub>4</sub> = 2010 XM<sub>36</sub>  
 2014 OZ<sub>4</sub> = 2010 VV<sub>213</sub>  
 2014 OH<sub>5</sub> = 2010 AQ<sub>99</sub> = 2011 CW<sub>97</sub>  
 2014 OW<sub>5</sub> = 2009 JS<sub>18</sub>  
 2014 OX<sub>5</sub> = 2007 PZ<sub>15</sub>  
 2014 OB<sub>6</sub> = 2001 ML<sub>17</sub>  
 2014 OG<sub>6</sub> = 2005 YD<sub>102</sub>  
 2014 OK<sub>6</sub> = 2010 MG<sub>55</sub> = 2010 RV<sub>157</sub>  
 2014 OT<sub>6</sub> = 2013 HX<sub>25</sub>  
 2014 OW<sub>6</sub> = 2004 TM<sub>273</sub>  
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 2014 OG<sub>11</sub> = 2003 PG<sub>10</sub>  
 2014 OY<sub>11</sub> = 2012 CU<sub>22</sub>  
 2014 OB<sub>12</sub> = 2005 XH<sub>91</sub>  
 2014 OD<sub>12</sub> = 2008 CX<sub>86</sub>  
 2014 ON<sub>12</sub> = 2005 YP<sub>36</sub>  
 2014 OR<sub>12</sub> = 2008 CE<sub>170</sub>  
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 2014 OU<sub>12</sub> = 2013 GC<sub>75</sub>  
 2014 OX<sub>12</sub> = 2003 UU<sub>398</sub> = 2004 YY<sub>18</sub> = 2010 BG<sub>30</sub> = 2013 HW<sub>6</sub>  
 2014 OD<sub>13</sub> = 2013 GA<sub>65</sub>  
 2014 OJ<sub>13</sub> = 2012 BU<sub>83</sub>  
 2014 OP<sub>13</sub> = 2003 SA<sub>136</sub>  
 2014 OT<sub>13</sub> = 2010 TJ<sub>68</sub>  
 2014 OU<sub>14</sub> = 2013 AA<sub>40</sub>  
 2014 OX<sub>14</sub> = 2008 FJ<sub>82</sub>  
 2014 OY<sub>14</sub> = 2011 UH<sub>398</sub> = 2013 GG<sub>37</sub>  
 2014 OA<sub>15</sub> = 2010 JN<sub>175</sub>  
 2014 OX<sub>15</sub> = 2011 UL<sub>108</sub>  
 2014 OF<sub>16</sub> = 2009 HA<sub>27</sub>  
 2014 OH<sub>16</sub> = 2005 NS<sub>119</sub>  
 2014 OZ<sub>16</sub> = 2011 QE<sub>87</sub>  
 2014 OO<sub>17</sub> = 2012 CY<sub>31</sub>  
 2014 OA<sub>18</sub> = 2013 HK<sub>83</sub>  
 2014 OX<sub>18</sub> = 2008 CS<sub>138</sub>  
 2014 OA<sub>19</sub> = 2005 YF<sub>104</sub>  
 2014 OB<sub>19</sub> = 2006 BJ<sub>203</sub>  
 2014 OC<sub>19</sub> = 2006 SD<sub>180</sub>  
 2014 OL<sub>19</sub> = 2008 YN<sub>76</sub>  
 2014 OQ<sub>19</sub> = 2007 UA<sub>112</sub>  
 2014 OZ<sub>19</sub> = 2011 WN<sub>13</sub>  
 2014 OC<sub>20</sub> = 2006 BD<sub>18</sub> = 2011 SO<sub>74</sub>



2014 OG<sub>20</sub> = 2006 BX<sub>18</sub>  
 2014 OH<sub>20</sub> = 2013 EO<sub>106</sub>  
 2014 OZ<sub>20</sub> = 2005 TM<sub>148</sub>  
 2014 OC<sub>21</sub> = 2013 EW<sub>145</sub>  
 2014 OK<sub>22</sub> = 2011 YO<sub>65</sub>  
 2014 OT<sub>22</sub> = 2006 EK<sub>55</sub>  
 2014 OF<sub>23</sub> = 2005 YW<sub>125</sub>  
 2014 OE<sub>24</sub> = 2007 VR<sub>239</sub>  
 2014 OB<sub>26</sub> = 2008 DD<sub>21</sub>  
 2014 OE<sub>26</sub> = 2005 QD<sub>64</sub> = 2010 OB<sub>17</sub> = 2012 BQ<sub>153</sub>  
 2014 OF<sub>26</sub> = 2010 KH<sub>22</sub>  
 2014 OM<sub>26</sub> = 2005 YB<sub>169</sub>  
 2014 OT<sub>26</sub> = 2010 RP<sub>178</sub>  
 2014 OC<sub>27</sub> = 2013 HM<sub>78</sub>  
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 2014 OG<sub>30</sub> = 2006 BE<sub>176</sub>  
 2014 OV<sub>30</sub> = 2010 TV<sub>134</sub>  
 2014 OW<sub>30</sub> = 2006 YX<sub>42</sub>  
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 2014 ON<sub>33</sub> = 2005 LJ<sub>45</sub>  
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 2014 OP<sub>35</sub> = 2006 KN<sub>97</sub>  
 2014 OU<sub>35</sub> = 2007 BM<sub>83</sub>  
 2014 OF<sub>36</sub> = 2009 HR<sub>18</sub> = 2011 WU<sub>84</sub> = 2013 EJ<sub>125</sub>  
 2014 OH<sub>36</sub> = 2009 BK<sub>39</sub> = 2013 CH<sub>138</sub>  
 2014 OT<sub>36</sub> = 2013 EY<sub>148</sub>  
 2014 OC<sub>37</sub> = 2013 HC<sub>79</sub>  
 2014 OJ<sub>37</sub> = 2004 YE<sub>16</sub>  
 2014 OL<sub>37</sub> = 2006 BM<sub>28</sub> = 2010 MM<sub>80</sub> = 2013 EU<sub>138</sub>  
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 2014 OG<sub>39</sub> = 2007 RU<sub>74</sub>  
 2014 OR<sub>39</sub> = 2010 RC<sub>161</sub>  
 2014 OY<sub>39</sub> = 2010 TQ<sub>62</sub>  
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 2014 OJ<sub>40</sub> = 2012 CM<sub>20</sub>  
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 2014 OR<sub>40</sub> = 2003 YM<sub>165</sub>  
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 2014 OQ<sub>42</sub> = 2006 BZ<sub>228</sub> = 2011 UY<sub>21</sub>  
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 2014 OR<sub>42</sub> = 2008 CR<sub>72</sub>

2014 OC<sub>43</sub> = 2001 BJ<sub>14</sub>  
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 2014 OQ<sub>47</sub> = 2009 SO<sub>41</sub>  
 2014 OU<sub>47</sub> = 2007 BG<sub>83</sub>  
 2014 OV<sub>47</sub> = 2011 CP<sub>35</sub>  
 2014 OJ<sub>48</sub> = 2000 EB<sub>207</sub> = 2008 VQ<sub>58</sub>  
 2014 OR<sub>48</sub> = 2004 RB<sub>318</sub>  
 2014 OG<sub>49</sub> = 1999 YG<sub>25</sub>  
 2014 OC<sub>50</sub> = 2009 SO<sub>313</sub>  
 2014 OE<sub>50</sub> = 2005 TY<sub>76</sub>  
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 2014 OD<sub>53</sub> = 2008 FZ<sub>73</sub>  
 2014 OJ<sub>53</sub> = 2003 OG  
 2014 OU<sub>53</sub> = 2011 UO<sub>175</sub>  
 2014 OV<sub>53</sub> = 2006 QV<sub>72</sub> = 2013 EP<sub>153</sub>  
 2014 OW<sub>53</sub> = 2010 RW<sub>159</sub>  
 2014 OQ<sub>54</sub> = 2005 RM<sub>18</sub>  
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 2014 OL<sub>57</sub> = 2010 VD<sub>8</sub>  
 2014 OX<sub>57</sub> = 2013 CN<sub>151</sub>  
 2014 OF<sub>58</sub> = 2012 BU<sub>41</sub>  
 2014 OY<sub>58</sub> = 2007 DS<sub>6</sub>  
 2014 OX<sub>59</sub> = 2010 NJ<sub>56</sub> = 2010 UU<sub>41</sub>  
 2014 OE<sub>60</sub> = 2007 ER<sub>211</sub>  
 2014 OF<sub>60</sub> = 2013 HE<sub>126</sub>  
 2014 OJ<sub>62</sub> = 2013 HW<sub>88</sub>  
 2014 OW<sub>62</sub> = 2013 HU<sub>60</sub>  
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 2014 OK<sub>64</sub> = 2010 TR<sub>157</sub>  
 2014 OS<sub>64</sub> = 2010 MH  
 2014 OB<sub>65</sub> = 2014 LP<sub>16</sub> = 2010 JO<sub>84</sub>  
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2014 OU<sub>65</sub> = 2011 UK<sub>32</sub>  
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 2014 OG<sub>66</sub> = 2006 SS<sub>82</sub>  
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 2014 OK<sub>71</sub> = 2010 MV<sub>31</sub>  
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 2014 OG<sub>72</sub> = 2003 SR<sub>421</sub>  
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 2014 OX<sub>79</sub> = 2010 LB<sub>88</sub>  
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 2014 OP<sub>84</sub> = 2005 YL<sub>226</sub>  
 2014 OD<sub>85</sub> = 2010 WF<sub>39</sub>  
 2014 OM<sub>85</sub> = 2010 RA<sub>82</sub>  
 2014 OR<sub>85</sub> = 2013 CT<sub>136</sub>  
 2014 OX<sub>85</sub> = 2010 TG<sub>172</sub>  
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 2014 OU<sub>87</sub> = 2013 GP<sub>33</sub>  
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2014 OO<sub>90</sub> = 2010 NL<sub>109</sub>  
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 2014 OT<sub>92</sub> = 2006 UN<sub>94</sub> = 2010 RM<sub>134</sub>  
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 2014 OW<sub>92</sub> = 2003 WW<sub>177</sub>  
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 2014 OD<sub>93</sub> = 2011 SL<sub>104</sub>  
 2014 OX<sub>94</sub> = 2001 UZ<sub>197</sub>  
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 2014 OH<sub>95</sub> = 2004 EF<sub>92</sub> = 2010 TR<sub>176</sub>  
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 2014 OO<sub>95</sub> = 2004 AR<sub>18</sub> = 2008 AP<sub>16</sub> = 2010 PW<sub>24</sub>  
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 2014 OL<sub>96</sub> = 2011 WE<sub>102</sub>  
 2014 OR<sub>96</sub> = 2010 WK<sub>74</sub>  
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 2014 OK<sub>97</sub> = 2001 YN<sub>136</sub>  
 2014 OU<sub>97</sub> = 2010 TJ<sub>61</sub>  
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 2014 OE<sub>99</sub> = 2001 DW<sub>88</sub>  
 2014 OK<sub>99</sub> = 2001 QC<sub>314</sub>  
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 2014 OZ<sub>100</sub> = 2010 TY  
 2014 OB<sub>101</sub> = 2003 QP<sub>96</sub>  
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 2014 OE<sub>101</sub> = 2010 CF<sub>131</sub>  
 2014 OG<sub>101</sub> = 2010 DB<sub>61</sub> = 2011 CL<sub>93</sub>  
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 2014 OQ<sub>101</sub> = 2010 RY<sub>162</sub>  
 2014 OA<sub>102</sub> = 2010 LA<sub>29</sub>  
 2014 OB<sub>102</sub> = 2005 ML<sub>28</sub>  
 2014 OH<sub>103</sub> = 2010 CW<sub>203</sub>  
 2014 OM<sub>103</sub> = 2006 BJ<sub>121</sub>  
 2014 ON<sub>103</sub> = 2010 VO<sub>59</sub>



2014 OT<sub>103</sub> = 2005 EZ<sub>214</sub>  
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 2014 OY<sub>103</sub> = 2006 BA<sub>236</sub>  
 2014 OB<sub>105</sub> = 2013 CF<sub>210</sub>  
 2014 OP<sub>105</sub> = 2006 BQ<sub>237</sub>  
 2014 OA<sub>107</sub> = 2004 RP<sub>318</sub>  
 2014 OC<sub>107</sub> = 2011 UD<sub>51</sub>  
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 2014 OP<sub>107</sub> = 2004 HF<sub>69</sub>  
 2014 OD<sub>108</sub> = 2010 OB<sub>53</sub>  
 2014 OL<sub>108</sub> = 2009 QT<sub>38</sub>  
 2014 OR<sub>108</sub> = 2013 CL<sub>221</sub>  
 2014 OY<sub>108</sub> = 2013 BP<sub>64</sub>  
 2014 OZ<sub>108</sub> = 2005 VC<sub>45</sub> = 2011 QP<sub>82</sub>  
 2014 OT<sub>109</sub> = 2010 MD<sub>87</sub>  
 2014 OB<sub>110</sub> = 2010 TV<sub>104</sub>  
 2014 OM<sub>110</sub> = 2010 GZ<sub>120</sub>  
 2014 OX<sub>110</sub> = 2009 SX<sub>115</sub>  
 2014 OY<sub>110</sub> = 2005 NM<sub>49</sub> = 2010 VN<sub>220</sub>  
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 2014 OU<sub>111</sub> = 2009 SR  
 2014 OC<sub>112</sub> = 2010 PH<sub>8</sub>  
 2014 OC<sub>113</sub> = 2005 YF<sub>111</sub>  
 2014 OO<sub>113</sub> = 2013 GC<sub>95</sub>  
 2014 OO<sub>114</sub> = 1995 UD<sub>58</sub> = 2010 UQ<sub>20</sub> = 2012 BS<sub>96</sub> = 2013 HM<sub>114</sub>  
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 2014 OK<sub>115</sub> = 2007 VZ<sub>265</sub>  
 2014 ON<sub>115</sub> = 1994 CZ<sub>6</sub> = 2010 TS<sub>18</sub>  
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 2014 OQ<sub>116</sub> = 2006 CF<sub>73</sub>  
 2014 OM<sub>117</sub> = 2013 CJ<sub>126</sub>  
 2014 OO<sub>117</sub> = 2010 TF<sub>50</sub>  
 2014 OU<sub>117</sub> = 2004 GP<sub>78</sub>  
 2014 OC<sub>118</sub> = 2008 EV<sub>33</sub>  
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 2014 OF<sub>118</sub> = 2005 YH<sub>119</sub>  
 2014 OS<sub>118</sub> = 2005 TQ<sub>160</sub>  
 2014 OC<sub>119</sub> = 2013 GL<sub>126</sub>  
 2014 OG<sub>119</sub> = 2010 PF<sub>48</sub>  
 2014 OJ<sub>119</sub> = 2004 RD<sub>302</sub>  
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 2014 OZ<sub>119</sub> = 2005 JX<sub>73</sub> = 2013 ES<sub>107</sub>  
 2014 OD<sub>120</sub> = 2006 YR<sub>45</sub>  
 2014 OF<sub>120</sub> = 2010 JQ<sub>161</sub>  
 2014 ON<sub>120</sub> = 2013 BR<sub>69</sub>  
 2014 OQ<sub>120</sub> = 2005 UB<sub>150</sub>  
 2014 OR<sub>120</sub> = 2008 YW<sub>56</sub>  
 2014 OV<sub>120</sub> = 2006 BH<sub>153</sub>  
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2014 OH<sub>121</sub> = 1999 TQ<sub>304</sub> = 2006 BZ<sub>277</sub>  
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 2014 OQ<sub>121</sub> = 2005 XL<sub>103</sub>  
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 2014 OL<sub>122</sub> = 2005 NP<sub>71</sub>  
 2014 OU<sub>122</sub> = 2012 AP<sub>15</sub>  
 2014 OW<sub>122</sub> = 2006 SK<sub>361</sub>  
 2014 OX<sub>122</sub> = 2007 TX<sub>397</sub>  
 2014 OZ<sub>122</sub> = 2009 SM<sub>169</sub>  
 2014 OC<sub>123</sub> = 2010 LZ<sub>58</sub>  
 2014 OJ<sub>123</sub> = 1999 VY<sub>204</sub> = 2011 BO<sub>88</sub>  
 2014 OK<sub>123</sub> = 2013 CG<sub>156</sub>  
 2014 OO<sub>123</sub> = 2011 YA<sub>46</sub>  
 2014 OG<sub>124</sub> = 2000 QY<sub>239</sub>  
 2014 OJ<sub>124</sub> = 2010 CE<sub>236</sub>  
 2014 OD<sub>125</sub> = 2007 TR<sub>7</sub>  
 2014 OK<sub>125</sub> = 2010 PF<sub>34</sub>  
 2014 OM<sub>125</sub> = 2007 VS<sub>205</sub>  
 2014 ON<sub>125</sub> = 2007 RW<sub>147</sub>  
 2014 OS<sub>125</sub> = 2013 GZ<sub>35</sub>  
 2014 OX<sub>125</sub> = 2011 SV<sub>150</sub>  
 2014 OK<sub>126</sub> = 2006 YX<sub>27</sub> = 2010 OO<sub>61</sub>  
 2014 ON<sub>126</sub> = 2013 EP<sub>37</sub>  
 2014 OX<sub>126</sub> = 1995 UC<sub>43</sub>  
 2014 OY<sub>126</sub> = 1999 XS<sub>232</sub>  
 2014 OY<sub>127</sub> = 2010 TT<sub>107</sub> = 2010 VK<sub>223</sub>  
 2014 OB<sub>128</sub> = 2006 JL<sub>54</sub>  
 2014 OH<sub>128</sub> = 2013 HS<sub>49</sub>  
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 2014 OR<sub>129</sub> = 2004 VF<sub>95</sub>  
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 2014 OG<sub>130</sub> = 2013 AR<sub>22</sub>  
 2014 OJ<sub>130</sub> = 2010 GA<sub>96</sub>  
 2014 OS<sub>130</sub> = 1999 VU<sub>128</sub>  
 2014 OY<sub>130</sub> = 2009 OQ<sub>8</sub>  
 2014 OE<sub>131</sub> = 2005 NV<sub>12</sub>  
 2014 OR<sub>131</sub> = 2010 NL<sub>99</sub>  
 2014 OQ<sub>132</sub> = 2002 GB<sub>48</sub> = 2003 SQ<sub>371</sub> = 2008 YK<sub>115</sub>  
 2014 OT<sub>132</sub> = 1996 DT<sub>7</sub> = 2004 SD<sub>43</sub>  
 2014 OQ<sub>133</sub> = 2010 WR<sub>35</sub>  
 2014 OT<sub>133</sub> = 2010 VH<sub>134</sub>  
 2014 OW<sub>133</sub> = 2012 CG<sub>6</sub>  
 2014 OY<sub>133</sub> = 2006 CB<sub>36</sub>  
 2014 OM<sub>134</sub> = 2013 HG<sub>71</sub>  
 2014 OT<sub>134</sub> = 2012 DY<sub>71</sub>  
 2014 OU<sub>134</sub> = 2006 TZ<sub>130</sub> = 2006 UX<sub>155</sub>  
 2014 OM<sub>135</sub> = 2013 BD<sub>22</sub>  
 2014 OS<sub>135</sub> = 2013 GU<sub>47</sub>  
 2014 OE<sub>136</sub> = 2006 BN<sub>196</sub>  
 2014 OM<sub>136</sub> = 2005 YR<sub>213</sub>



2014 OQ<sub>136</sub> = 2008 GV<sub>124</sub>  
 2014 OV<sub>137</sub> = 2006 WT<sub>121</sub>  
 2014 OW<sub>137</sub> = 2007 UU<sub>80</sub>  
 2014 OA<sub>138</sub> = 2006 WN<sub>175</sub>  
 2014 OL<sub>138</sub> = 2006 UQ<sub>171</sub>  
 2014 OR<sub>138</sub> = 2013 GK<sub>59</sub>  
 2014 OV<sub>138</sub> = 2013 HH<sub>79</sub>  
 2014 OX<sub>138</sub> = 2010 RU<sub>171</sub>  
 2014 OZ<sub>138</sub> = 2006 KN<sub>107</sub> = 2011 UL<sub>325</sub>  
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 2014 OB<sub>139</sub> = 2010 CE<sub>27</sub>  
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 2014 OE<sub>139</sub> = 2006 CY<sub>7</sub>  
 2014 OH<sub>139</sub> = 2006 HH<sub>128</sub>  
 2014 OL<sub>139</sub> = 2007 TK<sub>337</sub> = 2011 YY<sub>15</sub>  
 2014 OB<sub>141</sub> = 2011 UD<sub>229</sub>  
 2014 OE<sub>141</sub> = 2003 KJ<sub>1</sub>  
 2014 OH<sub>141</sub> = 2008 KP<sub>4</sub>  
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 2014 OZ<sub>141</sub> = 2010 TH<sub>6</sub>  
 2014 OK<sub>142</sub> = 2010 MS<sub>81</sub>  
 2014 OL<sub>142</sub> = 2009 SU<sub>195</sub>  
 2014 OB<sub>143</sub> = 2006 HX<sub>134</sub>  
 2014 OC<sub>143</sub> = 2007 VU<sub>69</sub>  
 2014 OD<sub>143</sub> = 2005 QB<sub>11</sub>  
 2014 OV<sub>143</sub> = 2006 DU<sub>191</sub>  
 2014 OR<sub>144</sub> = 2006 WJ<sub>78</sub> = 2010 TT<sub>66</sub>  
 2014 OS<sub>144</sub> = 2004 YO<sub>25</sub> = 2007 TF<sub>108</sub>  
 2014 OF<sub>145</sub> = 2004 FD<sub>57</sub>  
 2014 OZ<sub>145</sub> = 2010 JY<sub>81</sub>  
 2014 OH<sub>146</sub> = 2003 QQ<sub>98</sub>  
 2014 OM<sub>146</sub> = 2010 LU<sub>52</sub>  
 2014 OY<sub>146</sub> = 2007 UM<sub>70</sub>  
 2014 OG<sub>147</sub> = 2004 RV<sub>350</sub>  
 2014 OH<sub>147</sub> = 2013 HJ<sub>5</sub>  
 2014 OU<sub>147</sub> = 2011 UO<sub>60</sub>  
 2014 OC<sub>148</sub> = 2013 BP<sub>9</sub>  
 2014 OF<sub>149</sub> = 2010 VX<sub>17</sub>  
 2014 OS<sub>149</sub> = 2013 EH<sub>140</sub>  
 2014 OF<sub>150</sub> = 2009 SC<sub>322</sub>  
 2014 OO<sub>150</sub> = 2005 UC<sub>82</sub>  
 2014 OR<sub>150</sub> = 2006 VS<sub>119</sub> = 2013 GT<sub>42</sub>  
 2014 OX<sub>150</sub> = 2003 UH<sub>87</sub>  
 2014 OD<sub>151</sub> = 2006 SU<sub>362</sub> = 2012 AT<sub>16</sub>  
 2014 OO<sub>151</sub> = 2010 NR<sub>36</sub>  
 2014 OW<sub>151</sub> = 2002 XB<sub>64</sub>  
 2014 OY<sub>151</sub> = 2010 VL<sub>68</sub>  
 2014 OF<sub>152</sub> = 2012 DL<sub>94</sub>  
 2014 OO<sub>152</sub> = 2004 CO<sub>8</sub>  
 2014 OH<sub>153</sub> = 2010 MJ<sub>100</sub>  
 2014 OQ<sub>153</sub> = 2003 SB<sub>275</sub>

2014 OG<sub>154</sub> = 2008 KX<sub>3</sub>  
 2014 OP<sub>154</sub> = 2010 NA<sub>32</sub>  
 2014 OR<sub>154</sub> = 2010 TQ<sub>133</sub>  
 2014 OG<sub>155</sub> = 2008 EH<sub>52</sub> = 2010 TF<sub>102</sub>  
 2014 OM<sub>155</sub> = 2008 EF<sub>102</sub>  
 2014 OU<sub>155</sub> = 2004 GD<sub>49</sub> = 2013 GS<sub>30</sub>  
 2014 OX<sub>155</sub> = 2013 HO<sub>146</sub>  
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 2014 OB<sub>156</sub> = 2008 CF<sub>106</sub>  
 2014 OJ<sub>156</sub> = 2006 HA<sub>10</sub>  
 2014 OS<sub>156</sub> = 2005 QK<sub>125</sub>  
 2014 OB<sub>157</sub> = 2010 KS<sub>17</sub>  
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 2014 ON<sub>158</sub> = 2010 SJ<sub>32</sub>  
 2014 OQ<sub>158</sub> = 2013 HX<sub>147</sub>  
 2014 OG<sub>159</sub> = 2005 YV<sub>241</sub>  
 2014 OT<sub>159</sub> = 2007 YL<sub>52</sub> = 2007 YQ<sub>53</sub> = 2013 GL<sub>16</sub>  
 2014 OV<sub>159</sub> = 2014 MQ<sub>64</sub>  
 2014 OW<sub>159</sub> = 2011 YD<sub>12</sub>  
 2014 OW<sub>160</sub> = 2007 RB<sub>111</sub>  
 2014 OC<sub>161</sub> = 2006 UF<sub>355</sub>  
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 2014 OT<sub>162</sub> = 2005 YH<sub>105</sub>  
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 2014 OQ<sub>165</sub> = 2004 TJ<sub>107</sub>  
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 2014 OQ<sub>166</sub> = 2010 VQ<sub>122</sub> = 2012 CG<sub>44</sub>  
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 2014 OV<sub>166</sub> = 1999 FU<sub>82</sub>  
 2014 OC<sub>167</sub> = 2006 SL<sub>117</sub>  
 2014 OH<sub>167</sub> = 2009 SO<sub>97</sub>  
 2014 OW<sub>167</sub> = 2009 SE<sub>259</sub>  
 2014 OY<sub>167</sub> = 2011 WJ<sub>145</sub>  
 2014 OR<sub>168</sub> = 2008 UB<sub>47</sub> = 2010 GF<sub>139</sub>  
 2014 OZ<sub>168</sub> = 2013 GL<sub>79</sub>  
 2014 OG<sub>169</sub> = 2006 VF<sub>117</sub>  
 2014 OM<sub>169</sub> = 2009 SZ<sub>206</sub>  
 2014 OO<sub>169</sub> = 2011 WO<sub>16</sub>  
 2014 OQ<sub>169</sub> = 2009 RG<sub>25</sub>  
 2014 OW<sub>169</sub> = 2010 YK<sub>1</sub>  
 2014 OZ<sub>169</sub> = 2005 PL<sub>15</sub>  
 2014 OM<sub>170</sub> = 2008 GB<sub>126</sub>  
 2014 OP<sub>170</sub> = 2010 TS<sub>123</sub>  
 2014 OA<sub>171</sub> = 2008 CK<sub>120</sub>  
 2014 OF<sub>171</sub> = 2008 BO<sub>12</sub>



2014 OP<sub>171</sub> = 2006 GR<sub>17</sub>  
 2014 OR<sub>171</sub> = 2006 YN<sub>43</sub> = 2010 LO<sub>126</sub>  
 2014 OU<sub>171</sub> = 2010 OU<sub>108</sub> = 2010 TK<sub>142</sub> = 2013 GH<sub>47</sub>  
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 2014 OY<sub>172</sub> = 2010 ET<sub>102</sub>  
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 2014 OB<sub>173</sub> = 2004 XE<sub>122</sub>  
 2014 OX<sub>173</sub> = 2013 EM<sub>63</sub>  
 2014 OC<sub>174</sub> = 2010 BX<sub>30</sub>  
 2014 OK<sub>174</sub> = 2003 WD<sub>51</sub>  
 2014 OL<sub>174</sub> = 2010 GF<sub>135</sub> = 2011 UL<sub>227</sub>  
 2014 OU<sub>174</sub> = 2008 EQ<sub>70</sub> = 2010 RW<sub>79</sub> = 2012 BY<sub>86</sub>  
 2014 OB<sub>175</sub> = 2009 FG<sub>11</sub>  
 2014 OM<sub>175</sub> = 2010 OG<sub>19</sub>  
 2014 OR<sub>176</sub> = 2010 KF<sub>47</sub>  
 2014 OB<sub>177</sub> = 2006 JH<sub>77</sub>  
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 2014 OD<sub>178</sub> = 2010 SU<sub>7</sub>  
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 2014 OO<sub>178</sub> = 2011 UF<sub>352</sub>  
 2014 OX<sub>178</sub> = 2007 TM<sub>224</sub> = 2011 WU<sub>52</sub>  
 2014 OY<sub>178</sub> = 2005 GB<sub>84</sub>  
 2014 OF<sub>179</sub> = 2010 XO<sub>42</sub>  
 2014 OM<sub>179</sub> = 2004 RU<sub>296</sub>  
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 2014 OA<sub>180</sub> = 2003 YJ<sub>107</sub> = 2012 BR<sub>14</sub>  
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 2014 OD<sub>180</sub> = 2008 HY<sub>56</sub>  
 2014 OH<sub>180</sub> = 2006 SB<sub>334</sub>  
 2014 OJ<sub>180</sub> = 2003 ST<sub>418</sub>  
 2014 OL<sub>180</sub> = 2007 YW<sub>13</sub> = 2013 GO<sub>36</sub>  
 2014 OS<sub>180</sub> = 2010 BJ<sub>52</sub>  
 2014 OB<sub>181</sub> = 2007 TG<sub>338</sub>  
 2014 OG<sub>181</sub> = 2010 NG<sub>46</sub>  
 2014 OJ<sub>181</sub> = 2006 VO<sub>45</sub> = 2011 BG<sub>78</sub>  
 2014 OL<sub>181</sub> = 2007 FQ<sub>30</sub>  
 2014 OR<sub>181</sub> = 2010 GC<sub>77</sub>  
 2014 OD<sub>182</sub> = 2013 EW<sub>26</sub>  
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 2014 OC<sub>183</sub> = 2013 HK<sub>95</sub>  
 2014 OZ<sub>183</sub> = 1993 FT<sub>81</sub>  
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 2014 OR<sub>184</sub> = 2013 ER<sub>51</sub>  
 2014 OY<sub>184</sub> = 2005 XZ<sub>88</sub>  
 2014 OA<sub>185</sub> = 2010 XA<sub>41</sub>  
 2014 OG<sub>185</sub> = 2008 ED<sub>102</sub> = 2010 NF<sub>99</sub>

2014 OH<sub>185</sub> = 2004 XY<sub>179</sub>  
 2014 OJ<sub>185</sub> = 2010 BS<sub>105</sub> = 2011 AE<sub>38</sub>  
 2014 OQ<sub>185</sub> = 2013 DE  
 2014 OZ<sub>185</sub> = 2005 EN<sub>205</sub>  
 2014 OH<sub>186</sub> = 2008 OH<sub>6</sub> = 2013 LN<sub>5</sub>  
 2014 OQ<sub>186</sub> = 2005 OD<sub>21</sub>  
 2014 OX<sub>186</sub> = 2010 OV<sub>64</sub>  
 2014 OY<sub>186</sub> = 2009 HG<sub>56</sub>  
 2014 OO<sub>187</sub> = 2009 SL<sub>217</sub>  
 2014 OQ<sub>187</sub> = 2005 OF<sub>12</sub>  
 2014 OV<sub>187</sub> = 2006 CP<sub>80</sub> = 2012 EZ<sub>12</sub>  
 2014 OC<sub>188</sub> = 2003 SX<sub>351</sub>  
 2014 OD<sub>188</sub> = 2005 QA<sub>170</sub>  
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 2014 OP<sub>188</sub> = 2010 SD<sub>32</sub> = 2013 MD<sub>1</sub>  
 2014 OC<sub>189</sub> = 2007 EO<sub>142</sub>  
 2014 OE<sub>189</sub> = 2007 XL<sub>30</sub>  
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 2014 OQ<sub>189</sub> = 1995 UN<sub>28</sub> = 2010 PL<sub>73</sub>  
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 2014 OB<sub>191</sub> = 2003 WR<sub>100</sub>  
 2014 OH<sub>191</sub> = 2010 RY<sub>45</sub>  
 2014 OK<sub>191</sub> = 2001 SV<sub>338</sub> = 2010 PX<sub>56</sub>  
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 2014 OT<sub>191</sub> = 2003 SN<sub>120</sub>  
 2014 OA<sub>192</sub> = 2005 UX<sub>246</sub>  
 2014 OB<sub>192</sub> = 2013 FQ  
 2014 OD<sub>192</sub> = 2010 OJ<sub>112</sub>  
 2014 OF<sub>192</sub> = 2013 CV<sub>123</sub>  
 2014 OG<sub>192</sub> = 2005 UO<sub>489</sub>  
 2014 OO<sub>192</sub> = 2006 DQ<sub>69</sub>  
 2014 OP<sub>192</sub> = 2010 BX<sub>57</sub>  
 2014 OU<sub>192</sub> = 2003 UF<sub>230</sub>  
 2014 OC<sub>193</sub> = 2010 CA<sub>9</sub>  
 2014 OH<sub>193</sub> = 2005 EO<sub>268</sub> = 2010 RH<sub>37</sub>  
 2014 OZ<sub>193</sub> = 2004 TS<sub>24</sub>  
 2014 OD<sub>194</sub> = 2007 YW<sub>18</sub> = 2012 CX<sub>45</sub>  
 2014 ON<sub>194</sub> = 2010 OJ<sub>125</sub> = 2010 UO<sub>68</sub>  
 2014 OO<sub>194</sub> = 2007 UO<sub>94</sub>  
 2014 OU<sub>194</sub> = 2008 FK<sub>115</sub>  
 2014 OZ<sub>194</sub> = 2007 RJ<sub>175</sub>  
 2014 OA<sub>195</sub> = 2004 TK<sub>288</sub>  
 2014 OC<sub>195</sub> = 2004 PD<sub>82</sub> = 2011 WH<sub>140</sub>  
 2014 OD<sub>195</sub> = 2009 HD<sub>36</sub> = 2012 BC<sub>64</sub>  
 2014 OG<sub>195</sub> = 2010 TE<sub>103</sub>  
 2014 OP<sub>195</sub> = 2003 SJ<sub>21</sub>  
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 2014 OT<sub>195</sub> = 2013 HJ<sub>71</sub>  
 2014 OG<sub>196</sub> = 2006 QZ<sub>64</sub> = 2010 RO<sub>86</sub>  
 2014 OH<sub>196</sub> = 2010 PP<sub>1</sub>



2014 OQ<sub>196</sub> = 2009 SK<sub>161</sub>  
 2014 OT<sub>196</sub> = 2009 AG<sub>38</sub>  
 2014 OY<sub>196</sub> = 2010 PZ<sub>58</sub>  
 2014 OJ<sub>197</sub> = 2010 AO<sub>87</sub>  
 2014 OK<sub>197</sub> = 2010 CE<sub>51</sub>  
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 2014 OO<sub>197</sub> = 2010 OR<sub>118</sub>  
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 2014 OE<sub>198</sub> = 2008 AW<sub>107</sub>  
 2014 OF<sub>198</sub> = 1995 DV<sub>11</sub>  
 2014 OH<sub>198</sub> = 2013 CJ<sub>36</sub>  
 2014 OJ<sub>198</sub> = 1997 CZ<sub>17</sub> = 2010 QQ<sub>2</sub>  
 2014 OM<sub>198</sub> = 2009 FA<sub>34</sub>  
 2014 OG<sub>199</sub> = 2011 UG<sub>358</sub>  
 2014 OH<sub>199</sub> = 2006 BX<sub>113</sub>  
 2014 OL<sub>200</sub> = 2007 UH<sub>38</sub>  
 2014 OU<sub>200</sub> = 2005 YV<sub>147</sub>  
 2014 OC<sub>201</sub> = 2013 AO<sub>82</sub>  
 2014 OL<sub>201</sub> = 1999 FO<sub>66</sub>  
 2014 OP<sub>201</sub> = 2011 VD<sub>10</sub>  
 2014 OG<sub>202</sub> = 2012 BV<sub>12</sub>  
 2014 OH<sub>202</sub> = 2005 YZ<sub>162</sub>  
 2014 OJ<sub>202</sub> = 2006 BF<sub>128</sub>  
 2014 OQ<sub>202</sub> = 2008 CW<sub>48</sub> = 2010 LO<sub>29</sub>  
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 2014 OQ<sub>203</sub> = 2013 HN<sub>148</sub>  
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 2014 OJ<sub>204</sub> = 2010 TS<sub>179</sub>  
 2014 OS<sub>204</sub> = 2005 SO<sub>110</sub>  
 2014 OU<sub>204</sub> = 2004 RE<sub>329</sub>  
 2014 OB<sub>205</sub> = 2008 GJ<sub>14</sub>  
 2014 OD<sub>205</sub> = 2007 RJ<sub>193</sub>  
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 2014 OZ<sub>205</sub> = 2005 YS<sub>36</sub>  
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 2014 OB<sub>207</sub> = 2009 WT<sub>1</sub>  
 2014 OE<sub>207</sub> = 2001 TK<sub>245</sub>  
 2014 OH<sub>207</sub> = 2004 VX<sub>93</sub> = 2006 BB<sub>62</sub> = 2012 DZ<sub>21</sub>  
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 2014 OW<sub>207</sub> = 2014 LT<sub>27</sub>  
 2014 OK<sub>208</sub> = 2011 US<sub>235</sub>  
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 2014 OU<sub>208</sub> = 2011 SU<sub>54</sub>  
 2014 OB<sub>209</sub> = 2010 VL<sub>62</sub>  
 2014 OW<sub>209</sub> = 2013 EC<sub>143</sub>  
 2014 OX<sub>209</sub> = 2007 EZ<sub>145</sub> = 2010 VQ<sub>189</sub>

2014 OW<sub>211</sub> = 2011 YQ<sub>41</sub>  
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 2014 OG<sub>212</sub> = 2000 WD<sub>12</sub>  
 2014 OO<sub>212</sub> = 2013 EL<sub>88</sub>  
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 2014 OB<sub>214</sub> = 2007 RZ<sub>110</sub>  
 2014 OM<sub>214</sub> = 2009 DJ<sub>22</sub>  
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 2014 OK<sub>215</sub> = 2010 CN<sub>151</sub>  
 2014 ON<sub>215</sub> = 2010 DK<sub>60</sub>  
 2014 OQ<sub>216</sub> = 1995 GL<sub>1</sub>  
 2014 OX<sub>216</sub> = 2000 AO<sub>254</sub> = 2009 SJ<sub>348</sub> = 2013 HQ<sub>10</sub>  
 2014 OF<sub>217</sub> = 2002 AH<sub>6</sub>  
 2014 OQ<sub>217</sub> = 2006 WR<sub>5</sub>  
 2014 OA<sub>218</sub> = 2010 JP<sub>171</sub>  
 2014 OA<sub>220</sub> = 2013 EV<sub>13</sub>  
 2014 OO<sub>220</sub> = 2011 SG<sub>213</sub>  
 2014 OR<sub>220</sub> = 2007 RY<sub>221</sub>  
 2014 OR<sub>221</sub> = 2013 AK<sub>75</sub>  
 2014 OK<sub>222</sub> = 2010 WD<sub>63</sub>  
 2014 OO<sub>222</sub> = 2010 WB<sub>64</sub>  
 2014 OX<sub>222</sub> = 2010 UU<sub>88</sub>  
 2014 OM<sub>223</sub> = 2010 BP<sub>82</sub>  
 2014 OM<sub>224</sub> = 2010 VR<sub>177</sub>  
 2014 OR<sub>224</sub> = 2010 XM<sub>19</sub>  
 2014 OG<sub>225</sub> = 2008 CK<sub>21</sub>  
 2014 OA<sub>226</sub> = 2010 CN<sub>209</sub>  
 2014 OD<sub>226</sub> = 2010 KU<sub>18</sub>  
 2014 OH<sub>226</sub> = 2005 VW<sub>88</sub>  
 2014 OL<sub>226</sub> = 2010 XX<sub>8</sub>  
 2014 OZ<sub>226</sub> = 2011 UZ<sub>199</sub>  
 2014 OB<sub>227</sub> = 2004 HM<sub>16</sub> = 2010 TQ<sub>2</sub>  
 2014 OG<sub>227</sub> = 2010 KQ<sub>118</sub>  
 2014 OM<sub>227</sub> = 2002 JF<sub>7</sub>  
 2014 OO<sub>228</sub> = 2005 TH<sub>183</sub>  
 2014 OP<sub>228</sub> = 1999 TT<sub>41</sub> = 2012 CU<sub>2</sub>  
 2014 OQ<sub>228</sub> = 2006 WB<sub>172</sub>  
 2014 OX<sub>228</sub> = 2003 WC<sub>167</sub>  
 2014 OY<sub>228</sub> = 2010 PO<sub>8</sub>  
 2014 OB<sub>230</sub> = 2010 AJ<sub>102</sub>  
 2014 OM<sub>230</sub> = 2013 HX<sub>99</sub>  
 2014 OY<sub>230</sub> = 1995 SY<sub>59</sub> = 2010 PO<sub>1</sub>  
 2014 OB<sub>231</sub> = 2010 GL<sub>81</sub>  
 2014 OE<sub>231</sub> = 2001 QU<sub>185</sub> = 2008 EE<sub>97</sub>  
 2014 OK<sub>231</sub> = 2003 SZ<sub>114</sub> = 2010 CE<sub>242</sub>  
 2014 OL<sub>231</sub> = 2005 QV<sub>123</sub>  
 2014 OO<sub>231</sub> = 2003 QX<sub>81</sub>  
 2014 OT<sub>231</sub> = 2010 AN<sub>139</sub>  
 2014 OU<sub>231</sub> = 1999 TF<sub>300</sub>



2014 OP<sub>232</sub> = 2010 CQ<sub>194</sub>  
 2014 OV<sub>232</sub> = 2007 JO<sub>23</sub> = 2008 SF<sub>87</sub> = 2012 FP<sub>55</sub>  
 2014 OL<sub>233</sub> = 2011 WA<sub>88</sub>  
 2014 OT<sub>233</sub> = 2007 TT<sub>277</sub>  
 2014 OG<sub>234</sub> = 2010 TZ<sub>48</sub>  
 2014 OP<sub>234</sub> = 2010 RQ<sub>38</sub>  
 2014 OW<sub>234</sub> = 2011 YN<sub>14</sub> = 2013 HT<sub>73</sub>  
 2014 ON<sub>235</sub> = 2006 SB<sub>44</sub>  
 2014 OG<sub>236</sub> = 2013 BG<sub>3</sub>  
 2014 OQ<sub>236</sub> = 2004 TF<sub>24</sub>  
 2014 OX<sub>236</sub> = 2007 DG<sub>102</sub>  
 2014 OM<sub>237</sub> = 2010 NC<sub>29</sub>  
 2014 OQ<sub>237</sub> = 2013 DD<sub>16</sub>  
 2014 OW<sub>237</sub> = 2011 BT<sub>12</sub>  
 2014 OT<sub>238</sub> = 2007 UY<sub>27</sub>  
 2014 OV<sub>238</sub> = 2012 DG<sub>11</sub>  
 2014 OX<sub>238</sub> = 2006 QZ<sub>146</sub>  
 2014 OA<sub>239</sub> = 2007 ET<sub>21</sub>  
 2014 OE<sub>239</sub> = 2003 SJ<sub>105</sub> = 2007 VK<sub>280</sub>  
 2014 OM<sub>239</sub> = 2013 JW<sub>47</sub>  
 2014 OQ<sub>239</sub> = 2010 NZ<sub>78</sub>  
 2014 OY<sub>239</sub> = 2013 EP<sub>135</sub>  
 2014 OB<sub>240</sub> = 1998 MB<sub>17</sub>  
 2014 OC<sub>240</sub> = 2006 WE<sub>23</sub> = 2010 TW<sub>10</sub>  
 2014 OD<sub>240</sub> = 2009 PJ<sub>7</sub>  
 2014 OF<sub>240</sub> = 2009 RQ<sub>12</sub> = 2009 TJ<sub>2</sub> = 2013 HC<sub>135</sub>  
 2014 OR<sub>240</sub> = 2006 SP<sub>254</sub>  
 2014 OT<sub>240</sub> = 2013 CQ<sub>97</sub>  
 2014 OB<sub>241</sub> = 2007 TP<sub>203</sub>  
 2014 OJ<sub>241</sub> = 2010 JF<sub>165</sub>  
 2014 OH<sub>242</sub> = 2011 SY<sub>45</sub>  
 2014 OC<sub>243</sub> = 2005 WY<sub>137</sub> = 2010 VB<sub>134</sub>  
 2014 OD<sub>243</sub> = 2007 DT<sub>14</sub>  
 2014 OL<sub>243</sub> = 2013 CG<sub>47</sub>  
 2014 OG<sub>244</sub> = 2013 AP<sub>50</sub>  
 2014 OF<sub>245</sub> = 2010 VN<sub>69</sub>  
 2014 ON<sub>246</sub> = 2012 CG<sub>51</sub>  
 2014 OO<sub>246</sub> = 2007 DG<sub>24</sub> = 2010 XJ<sub>79</sub>  
 2014 OE<sub>247</sub> = 2006 SL<sub>335</sub>  
 2014 OE<sub>248</sub> = 2013 EJ<sub>2</sub>  
 2014 OZ<sub>248</sub> = 2013 HJ<sub>33</sub>  
 2014 OA<sub>251</sub> = 2010 NZ<sub>67</sub>  
 2014 OF<sub>251</sub> = 2003 QA<sub>98</sub>  
 2014 ON<sub>252</sub> = 2000 SY<sub>180</sub>  
 2014 OL<sub>253</sub> = 2013 CW<sub>199</sub>  
 2014 OP<sub>253</sub> = 2010 TE<sub>112</sub> = 2010 VL<sub>223</sub>  
 2014 OR<sub>253</sub> = 2010 TT<sub>65</sub>  
 2014 OB<sub>254</sub> = 2006 XH<sub>68</sub> = 2008 EZ<sub>26</sub>  
 2014 OC<sub>254</sub> = 2009 QP<sub>9</sub>  
 2014 OH<sub>254</sub> = 2005 VS<sub>35</sub>  
 2014 OM<sub>254</sub> = 2009 RB<sub>22</sub>  
 2014 OC<sub>256</sub> = 2009 RX<sub>63</sub>

2014 OU<sub>256</sub> = 2010 RA<sub>168</sub>  
 2014 OF<sub>257</sub> = 2006 QV<sub>44</sub>  
 2014 OL<sub>258</sub> = 2004 EF<sub>49</sub>  
 2014 OS<sub>258</sub> = 2003 YF<sub>175</sub>  
 2014 OY<sub>258</sub> = 2012 EX<sub>16</sub>  
 2014 OG<sub>259</sub> = 2010 RX<sub>96</sub>  
 2014 OH<sub>259</sub> = 2012 DE<sub>91</sub>  
 2014 OL<sub>259</sub> = 2005 YM<sub>280</sub>  
 2014 OQ<sub>259</sub> = 2005 YF<sub>244</sub>  
 2014 OE<sub>263</sub> = 2010 MD<sub>101</sub>  
 2014 OO<sub>263</sub> = 2010 JV<sub>96</sub>  
 2014 OS<sub>263</sub> = 2010 AK<sub>99</sub>  
 2014 OH<sub>264</sub> = 2010 TM<sub>53</sub>  
 2014 OT<sub>269</sub> = 2010 WY<sub>46</sub>  
 2014 OJ<sub>272</sub> = 2009 HJ<sub>87</sub>  
 2014 OZ<sub>273</sub> = 2002 UF<sub>43</sub>  
 2014 OF<sub>274</sub> = 2013 CY<sub>136</sub>  
 2014 OG<sub>274</sub> = 2009 UD<sub>7</sub>  
 2014 ON<sub>274</sub> = 2005 YM<sub>238</sub> = 2013 KP<sub>17</sub>  
 2014 OS<sub>274</sub> = 2007 RX<sub>215</sub>  
 2014 OR<sub>276</sub> = 2003 UP<sub>258</sub>  
 2014 OW<sub>276</sub> = 2003 QT<sub>102</sub> = 2009 SC<sub>334</sub>  
 2014 OB<sub>277</sub> = 2002 CZ<sub>187</sub>  
 2014 OC<sub>277</sub> = 2012 BY<sub>43</sub>  
 2014 OE<sub>277</sub> = 1999 TS<sub>76</sub>  
 2014 OL<sub>277</sub> = 2005 NS<sub>16</sub>  
 2014 ON<sub>277</sub> = 2013 CJ<sub>208</sub>  
 2014 OX<sub>278</sub> = 2011 UA<sub>160</sub>  
 2014 OH<sub>279</sub> = 2004 VP<sub>86</sub>  
 2014 OQ<sub>279</sub> = 2007 HT<sub>42</sub> = 2013 CT<sub>139</sub>  
 2014 OT<sub>279</sub> = 2003 SV<sub>29</sub>  
 2014 OD<sub>280</sub> = 2004 RS<sub>140</sub>  
 2014 OZ<sub>280</sub> = 2008 GQ<sub>61</sub>  
 2014 OX<sub>281</sub> = 2009 RX<sub>24</sub> = 2013 GR<sub>45</sub>  
 2014 OM<sub>282</sub> = 2010 CS<sub>211</sub>  
 2014 OO<sub>282</sub> = 1993 TY<sub>40</sub> = 2011 YX<sub>50</sub>  
 2014 OO<sub>285</sub> = 2011 UB<sub>83</sub>  
 2014 OD<sub>286</sub> = 1993 HU<sub>7</sub>  
 2014 OY<sub>289</sub> = 2004 VZ<sub>90</sub>  
 2014 OT<sub>292</sub> = 2006 XV<sub>32</sub>  
 2014 OC<sub>293</sub> = 2010 AR<sub>122</sub>  
 2014 OJ<sub>293</sub> = 2002 TT<sub>370</sub>  
 2014 OL<sub>293</sub> = 2000 OG<sub>67</sub> = 2013 HA<sub>105</sub>  
 2014 OE<sub>294</sub> = 2011 WE<sub>93</sub>  
 2014 OL<sub>294</sub> = 2000 SC<sub>324</sub>  
 2014 OV<sub>294</sub> = 2007 ED<sub>116</sub>  
 2014 OZ<sub>294</sub> = 2013 HD<sub>82</sub>  
 2014 OB<sub>295</sub> = 2010 OO<sub>89</sub>  
 2014 OE<sub>295</sub> = 2007 TL<sub>251</sub>  
 2014 OK<sub>295</sub> = 2004 LT<sub>31</sub>  
 2014 ON<sub>295</sub> = 2013 EQ<sub>114</sub>  
 2014 OR<sub>295</sub> = 2010 KE<sub>26</sub>



2014 OY<sub>295</sub> = 2010 FP<sub>81</sub>  
 2014 OF<sub>296</sub> = 2012 DJ<sub>12</sub>  
 2014 OP<sub>296</sub> = 2009 UU<sub>44</sub>  
 2014 OA<sub>297</sub> = 1999 VV<sub>175</sub> = 1999 VA<sub>222</sub>  
 2014 OE<sub>297</sub> = 2003 UE<sub>321</sub>  
 2014 OJ<sub>297</sub> = 2010 UH<sub>64</sub>  
 2014 OM<sub>297</sub> = 2003 UF<sub>227</sub>  
 2014 OS<sub>297</sub> = 2007 FT<sub>26</sub>  
 2014 OA<sub>298</sub> = 2000 RT<sub>58</sub> = 2007 DE<sub>102</sub>  
 2014 OH<sub>298</sub> = 2012 EC<sub>6</sub>  
 2014 OH<sub>299</sub> = 2007 WH<sub>17</sub> = 2010 NA<sub>82</sub> = 2013 EQ<sub>56</sub>  
 2014 OO<sub>299</sub> = 2005 YX<sub>198</sub>  
 2014 OP<sub>299</sub> = 2005 NQ<sub>61</sub>  
 2014 OE<sub>300</sub> = 2009 RO<sub>4</sub>  
 2014 OW<sub>301</sub> = 2010 SO<sub>40</sub>  
 2014 OC<sub>303</sub> = 2009 SX<sub>86</sub>  
 2014 OW<sub>303</sub> = 2008 CU<sub>106</sub>  
 2014 OC<sub>304</sub> = 2010 RC<sub>11</sub>  
 2014 OU<sub>304</sub> = 2007 HG<sub>8</sub> = 2011 UF<sub>42</sub>  
 2014 OV<sub>304</sub> = 2012 BK<sub>41</sub>  
 2014 OA<sub>305</sub> = 2008 GU<sub>127</sub>  
 2014 OP<sub>305</sub> = 2005 YD<sub>77</sub>  
 2014 OU<sub>305</sub> = 2004 TG<sub>323</sub> = 2011 BN<sub>133</sub>  
 2014 OL<sub>306</sub> = 2012 BC<sub>83</sub>  
 2014 OP<sub>306</sub> = 2010 XK<sub>10</sub>  
 2014 OT<sub>306</sub> = 2010 GX<sub>119</sub> = 2010 JQ<sub>148</sub>  
 2014 OA<sub>307</sub> = 2007 RK<sub>277</sub>  
 2014 OJ<sub>307</sub> = 2003 SE<sub>420</sub>  
 2014 OR<sub>307</sub> = 2013 GP<sub>52</sub>  
 2014 OA<sub>308</sub> = 1999 CO<sub>143</sub>  
 2014 OG<sub>308</sub> = 2006 BV<sub>34</sub>  
 2014 OT<sub>308</sub> = 2006 BO<sub>34</sub> = 2009 SB<sub>109</sub>  
 2014 OY<sub>308</sub> = 2005 NN<sub>98</sub>  
 2014 OE<sub>310</sub> = 2004 RW<sub>285</sub> = 2007 EK<sub>144</sub>  
 2014 OK<sub>310</sub> = 2009 SY<sub>94</sub>  
 2014 OM<sub>310</sub> = 2010 ED<sub>103</sub>  
 2014 OY<sub>310</sub> = 2009 SK<sub>167</sub>  
 2014 OB<sub>311</sub> = 2010 TT<sub>83</sub> = 2013 HK<sub>147</sub>  
 2014 OQ<sub>311</sub> = 2013 GW<sub>12</sub>  
 2014 OU<sub>311</sub> = 2013 EO<sub>78</sub>  
 2014 OM<sub>315</sub> = 2010 NQ<sub>3</sub>  
 2014 OR<sub>315</sub> = 2011 UG<sub>253</sub>  
 2014 OM<sub>316</sub> = 2006 QB<sub>104</sub>  
 2014 OO<sub>316</sub> = 2013 JB<sub>31</sub>  
 2014 OP<sub>316</sub> = 2010 RZ<sub>8</sub>  
 2014 OW<sub>316</sub> = 2010 GX<sub>82</sub>  
 2014 OX<sub>316</sub> = 2013 JR<sub>50</sub>  
 2014 OY<sub>316</sub> = 2006 UX<sub>129</sub> = 2010 TO<sub>7</sub>  
 2014 OF<sub>317</sub> = 2013 DT<sub>14</sub>  
 2014 OG<sub>319</sub> = 2013 HY<sub>78</sub>  
 2014 OB<sub>323</sub> = 2006 HE<sub>81</sub>  
 2014 OS<sub>323</sub> = 2007 BW<sub>96</sub>

2014 OH<sub>324</sub> = 2004 RP<sub>127</sub>  
 2014 OY<sub>324</sub> = 2010 OT<sub>12</sub>  
 2014 OA<sub>325</sub> = 2012 BM<sub>9</sub>  
 2014 OE<sub>327</sub> = 2006 CS<sub>76</sub>  
 2014 OJ<sub>327</sub> = 2013 GG<sub>50</sub>  
 2014 OP<sub>328</sub> = 2013 EE<sub>47</sub>  
 2014 OZ<sub>328</sub> = 2011 UF<sub>166</sub>  
 2014 OK<sub>329</sub> = 2010 TV<sub>122</sub>  
 2014 OP<sub>329</sub> = 2012 DU<sub>41</sub>  
 2014 OY<sub>330</sub> = 2008 EV<sub>9</sub> = 2010 RY<sub>134</sub> = 2013 FG<sub>22</sub>  
 2014 OJ<sub>331</sub> = 1995 UR<sub>77</sub> = 2005 SM<sub>292</sub>  
 2014 OQ<sub>332</sub> = 2008 GX<sub>126</sub>  
 2014 OA<sub>333</sub> = 2013 GQ<sub>94</sub>  
 2014 OD<sub>333</sub> = 1996 JD<sub>15</sub> = 2007 PK<sub>31</sub>  
 2014 OE<sub>333</sub> = 2007 EY<sub>170</sub>  
 2014 OR<sub>333</sub> = 2007 EZ<sub>11</sub>  
 2014 OW<sub>333</sub> = 2013 GW<sub>125</sub>  
 2014 OX<sub>333</sub> = 2011 WL<sub>137</sub>  
 2014 OF<sub>334</sub> = 2010 FK<sub>86</sub>  
 2014 OM<sub>334</sub> = 2011 UA<sub>218</sub>  
 2014 OP<sub>334</sub> = 2007 VK<sub>26</sub>  
 2014 OQ<sub>334</sub> = 2010 RQ<sub>160</sub>  
 2014 OU<sub>336</sub> = 2004 TR<sub>26</sub>  
 2014 OO<sub>337</sub> = 2009 SX<sub>237</sub>  
 2014 OA<sub>338</sub> = 2008 BY<sub>31</sub>  
 2014 OB<sub>338</sub> = 2011 HJ<sub>1</sub>  
 2014 OP<sub>338</sub> = 2007 BP<sub>29</sub>  
 2014 OW<sub>338</sub> = 2003 SP<sub>222</sub> = 2010 AX<sub>77</sub> = 2013 CH<sub>89</sub>  
 2014 OT<sub>339</sub> = 2004 AQ<sub>16</sub> = 2010 MD<sub>114</sub>  
 2014 OB<sub>340</sub> = 2010 RM<sub>94</sub>  
 2014 OR<sub>340</sub> = 2004 RO<sub>265</sub> = 2012 FH<sub>46</sub>  
 2014 OE<sub>341</sub> = 2005 YE<sub>224</sub>  
 2014 OF<sub>341</sub> = 2005 TY<sub>142</sub>  
 2014 OK<sub>341</sub> = 2011 YS<sub>73</sub> = 2012 BV<sub>42</sub> = 2012 BS<sub>153</sub>  
 2014 OO<sub>341</sub> = 2006 CQ<sub>38</sub> = 2011 UK<sub>14</sub>  
 2014 OR<sub>341</sub> = 2002 RH<sub>164</sub> = 2006 QQ<sub>2</sub>  
 2014 OS<sub>341</sub> = 2004 AK<sub>19</sub>  
 2014 OB<sub>342</sub> = 2006 UR<sub>206</sub>  
 2014 OH<sub>342</sub> = 2009 SW<sub>41</sub>  
 2014 OK<sub>342</sub> = 2008 GB<sub>6</sub>  
 2014 OM<sub>343</sub> = 2007 NB<sub>4</sub>  
 2014 ON<sub>343</sub> = 2010 SH<sub>2</sub>  
 2014 OP<sub>343</sub> = 2007 TM<sub>397</sub>  
 2014 OT<sub>343</sub> = 2007 BE<sub>13</sub>  
 2014 OU<sub>343</sub> = 2010 KR<sub>36</sub>  
 2014 OX<sub>343</sub> = 2011 BT<sub>2</sub>  
 2014 OA<sub>344</sub> = 2010 DO<sub>69</sub>  
 2014 OE<sub>344</sub> = 2004 YU<sub>1</sub>  
 2014 OG<sub>344</sub> = 2010 BP<sub>45</sub> = 2010 NE<sub>30</sub>  
 2014 OZ<sub>344</sub> = 2010 WW<sub>59</sub>  
 2014 OE<sub>345</sub> = 2013 GX<sub>87</sub>  
 2014 OP<sub>345</sub> = 2008 EF<sub>96</sub>



2014 OR<sub>345</sub> = 2011 UQ<sub>258</sub>  
 2014 OU<sub>345</sub> = 2006 BD<sub>61</sub>  
 2014 OX<sub>345</sub> = 2013 CA<sub>117</sub>  
 2014 OL<sub>346</sub> = 2010 WA<sub>19</sub>  
 2014 OR<sub>346</sub> = 2006 UG<sub>213</sub>  
 2014 OV<sub>346</sub> = 1998 BS<sub>42</sub>  
 2014 OT<sub>347</sub> = 2005 GF<sub>52</sub>  
 2014 OR<sub>349</sub> = 2009 QT<sub>10</sub>  
 2014 OY<sub>349</sub> = 2013 EK<sub>39</sub>  
 2014 OL<sub>351</sub> = 2006 CC<sub>76</sub>  
 2014 OU<sub>352</sub> = 2008 CY<sub>166</sub> = 2013 HS<sub>114</sub>  
 2014 OF<sub>353</sub> = 2008 CK<sub>126</sub> = 2013 JT<sub>1</sub>  
 2014 OD<sub>355</sub> = 2003 UX<sub>44</sub>  
 2014 OV<sub>355</sub> = 2006 SZ<sub>12</sub>  
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 2014 OT<sub>356</sub> = 2011 UT<sub>327</sub>  
 2014 OD<sub>358</sub> = 2010 TM<sub>134</sub>  
 2014 OP<sub>358</sub> = 2005 QT<sub>28</sub> = 2010 OB<sub>32</sub>  
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 2014 OS<sub>359</sub> = 2004 FL<sub>8</sub> = 2005 NY<sub>19</sub> = 2012 BS<sub>36</sub>  
 2014 OY<sub>359</sub> = 2013 GE<sub>76</sub>  
 2014 OE<sub>360</sub> = 2010 BG<sub>60</sub>  
 2014 OK<sub>360</sub> = 2010 TE<sub>66</sub>  
 2014 OV<sub>360</sub> = 2009 UK<sub>12</sub>  
 2014 OL<sub>361</sub> = 2013 GM<sub>59</sub>  
 2014 OD<sub>362</sub> = 2004 AW<sub>13</sub>  
 2014 OX<sub>362</sub> = 2006 EZ<sub>20</sub> = 2013 CG<sub>221</sub>  
 2014 OO<sub>363</sub> = 2010 VY<sub>188</sub>  
 2014 OO<sub>364</sub> = 2009 RW<sub>43</sub>  
 2014 OT<sub>364</sub> = 2012 BP<sub>79</sub>  
 2014 ON<sub>366</sub> = 2010 AL<sub>85</sub>  
 2014 OY<sub>366</sub> = 2007 TK<sub>310</sub>  
 2014 OA<sub>367</sub> = 2007 RQ<sub>121</sub>  
 2014 OB<sub>367</sub> = 2007 EN<sub>174</sub>  
 2014 OD<sub>367</sub> = 2009 DC<sub>39</sub>  
 2014 OV<sub>368</sub> = 2008 CP<sub>119</sub>  
 2014 OV<sub>369</sub> = 2013 JR<sub>54</sub>  
 2014 OC<sub>370</sub> = 2009 QQ<sub>32</sub> = 2010 WF<sub>61</sub>  
 2014 OE<sub>370</sub> = 2009 DB<sub>19</sub>  
 2014 OY<sub>370</sub> = 2010 NS<sub>28</sub>  
 2014 ON<sub>371</sub> = 2012 CY<sub>34</sub>  
 2014 OB<sub>372</sub> = 2007 RJ<sub>229</sub>  
 2014 ON<sub>372</sub> = 2007 RN<sub>66</sub>  
 2014 OB<sub>373</sub> = 2010 EY<sub>146</sub>  
 2014 OP<sub>373</sub> = 2003 UJ<sub>367</sub>  
 2014 OP<sub>374</sub> = 2013 GH<sub>120</sub>  
 2014 OB<sub>375</sub> = 2010 OH<sub>7</sub> = 2013 HR<sub>22</sub>  
 2014 OD<sub>375</sub> = 2006 JH<sub>79</sub> = 2007 VZ<sub>204</sub>  
 2014 OF<sub>375</sub> = 2010 RJ<sub>161</sub>  
 2014 OA<sub>376</sub> = 2006 DN<sub>194</sub> = 2012 EH<sub>13</sub>  
 2014 OB<sub>376</sub> = 2010 VT<sub>63</sub>  
 2014 OC<sub>377</sub> = 2007 WL<sub>40</sub>

2014 OE<sub>377</sub> = 1995 DZ<sub>6</sub>  
 2014 OL<sub>377</sub> = 2010 VL<sub>7</sub>  
 2014 OW<sub>377</sub> = 2007 RX<sub>262</sub>  
 2014 OX<sub>377</sub> = 2010 OP<sub>90</sub>  
 2014 OP<sub>378</sub> = 2011 UP<sub>281</sub>  
 2014 OU<sub>378</sub> = 2004 RN<sub>23</sub> = 2012 FK<sub>20</sub>  
 2014 OK<sub>379</sub> = 2013 GZ  
 2014 OJ<sub>380</sub> = 2010 NX<sub>32</sub>  
 2014 OR<sub>380</sub> = 2002 JP<sub>6</sub> = 2009 RB<sub>38</sub>  
 2014 OT<sub>380</sub> = 2005 QW<sub>58</sub>  
 2014 OX<sub>380</sub> = 2009 UQ<sub>6</sub>  
 2014 OA<sub>381</sub> = 2004 TA<sub>245</sub>  
 2014 OD<sub>381</sub> = 2010 AW<sub>82</sub>  
 2014 OF<sub>381</sub> = 2009 QO<sub>14</sub>  
 2014 OC<sub>382</sub> = 2005 UT<sub>217</sub> = 2010 VA<sub>55</sub>  
 2014 OA<sub>383</sub> = 2009 JE<sub>15</sub> = 2013 EC<sub>4</sub>  
 2014 OF<sub>383</sub> = 2013 LC<sub>3</sub>  
 2014 OP<sub>383</sub> = 1998 WK<sub>45</sub>  
 2014 OD<sub>384</sub> = 2006 SC<sub>288</sub>  
 2014 OH<sub>384</sub> = 2010 OK<sub>2</sub>  
 2014 OJ<sub>384</sub> = 2005 YX<sub>205</sub>  
 2014 OK<sub>384</sub> = 2006 HM<sub>52</sub>  
 2014 OP<sub>384</sub> = 2010 WA<sub>48</sub>  
 2014 OE<sub>385</sub> = 2012 DE<sub>52</sub>  
 2014 OP<sub>385</sub> = 2013 AT<sub>15</sub>  
 2014 OD<sub>386</sub> = 2011 SQ<sub>50</sub>  
 2014 OO<sub>386</sub> = 1999 VW<sub>134</sub> = 2004 TK<sub>184</sub>  
 2014 OQ<sub>386</sub> = 2009 SG<sub>23</sub>  
 2014 OS<sub>386</sub> = 2009 SK<sub>336</sub>  
 2014 OV<sub>386</sub> = 2013 JJ<sub>47</sub>  
 2014 OW<sub>386</sub> = 2012 DM<sub>2</sub>  
 2014 OZ<sub>386</sub> = 2013 EN<sub>115</sub>  
 2014 OB<sub>387</sub> = 2009 SF<sub>165</sub>  
 2014 OC<sub>387</sub> = 2004 RB<sub>281</sub>  
 2014 OD<sub>387</sub> = 2010 UM<sub>61</sub>  
 2014 OE<sub>387</sub> = 2003 KO<sub>1</sub>  
 2014 ON<sub>387</sub> = 2006 BT<sub>187</sub> = 2010 JC<sub>40</sub>  
 2014 OS<sub>387</sub> = 2003 SQ<sub>114</sub>  
 2014 OT<sub>387</sub> = 2012 BH<sub>100</sub>  
 2014 OO<sub>388</sub> = 2006 KE<sub>111</sub>  
 2014 OU<sub>388</sub> = 2005 ET<sub>106</sub> = 2007 UA<sub>40</sub>  
 2014 OY<sub>388</sub> = 2010 XA<sub>46</sub>  
 2014 OE<sub>389</sub> = 2003 QZ<sub>10</sub> = 2008 AO<sub>5</sub>  
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 2014 OV<sub>389</sub> = 2010 BX<sub>16</sub>  
 2014 OJ<sub>390</sub> = 2010 BB<sub>47</sub>  
 2014 OR<sub>390</sub> = 2005 BA<sub>44</sub>  
 2014 OS<sub>390</sub> = 1999 TE<sub>155</sub> = 2012 BD<sub>7</sub>  
 2014 OW<sub>390</sub> = 2013 EZ<sub>127</sub>  
 2014 PA = 1996 GV<sub>12</sub> = 2004 XX<sub>49</sub>  
 2014 PD = 2006 BY<sub>191</sub>  
 2014 PF = 2010 KA<sub>9</sub>



2014 PO = 2010 EO<sub>14</sub>  
 2014 PP = 2009 FU<sub>36</sub>  
 2014 PT = 2010 DM<sub>67</sub>  
 2014 PA<sub>1</sub> = 2013 GL<sub>54</sub>  
 2014 PH<sub>1</sub> = 2005 JD<sub>111</sub> = 2013 GQ<sub>5</sub>  
 2014 PM<sub>1</sub> = 2005 WE<sub>127</sub>  
 2014 PN<sub>1</sub> = 2004 TL<sub>193</sub>  
 2014 PR<sub>1</sub> = 2013 FW<sub>26</sub>  
 2014 PY<sub>1</sub> = 2006 GA<sub>27</sub>  
 2014 PC<sub>2</sub> = 2007 DR<sub>50</sub> = 2013 HN<sub>4</sub>  
 2014 PN<sub>2</sub> = 2010 VV<sub>179</sub>  
 2014 PY<sub>2</sub> = 2010 JC<sub>153</sub>  
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 2014 PL<sub>5</sub> = 2012 BE<sub>148</sub>  
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 2014 PY<sub>7</sub> = 2010 KB<sub>119</sub> = 2013 GX<sub>2</sub>  
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 2014 PG<sub>9</sub> = 2010 TW<sub>25</sub>  
 2014 PU<sub>9</sub> = 2010 VY<sub>111</sub>  
 2014 PZ<sub>9</sub> = 2013 BZ<sub>69</sub>  
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 2014 PX<sub>10</sub> = 2003 SE<sub>216</sub>  
 2014 PZ<sub>10</sub> = 2005 GP<sub>217</sub> = 2006 QR<sub>178</sub>  
 2014 PC<sub>11</sub> = 2010 CC<sub>195</sub> = 2011 BA<sub>94</sub>  
 2014 PU<sub>11</sub> = 2004 TT<sub>352</sub>  
 2014 PZ<sub>11</sub> = 2008 KD<sub>17</sub> = 2009 TN  
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2014 PT<sub>15</sub> = 2007 VG<sub>81</sub>  
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 2014 PZ<sub>18</sub> = 2011 AN<sub>19</sub>  
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 2014 PC<sub>19</sub> = 2012 BH<sub>70</sub>  
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 2014 PZ<sub>20</sub> = 2006 DK<sub>88</sub>  
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 2014 PZ<sub>22</sub> = 2005 GJ<sub>105</sub> = 2013 GF<sub>7</sub>  
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 2014 PR<sub>23</sub> = 2007 RR<sub>107</sub>  
 2014 PU<sub>23</sub> = 2003 UO<sub>139</sub>  
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 2014 PQ<sub>24</sub> = 2010 DJ<sub>19</sub> = 2011 DG<sub>28</sub>  
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 2014 PC<sub>25</sub> = 2010 TA<sub>37</sub>  
 2014 PD<sub>25</sub> = 2009 DL<sub>96</sub>  
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 2014 PK<sub>26</sub> = 2007 VO<sub>288</sub>  
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 2014 PR<sub>27</sub> = 2010 MG<sub>90</sub>  
 2014 PH<sub>28</sub> = 2009 RD<sub>59</sub>  
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 2014 PO<sub>28</sub> = 2010 TY<sub>173</sub>  
 2014 PT<sub>28</sub> = 2007 VR<sub>296</sub>  
 2014 PZ<sub>28</sub> = 2006 BV<sub>3</sub>  
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2014 PG<sub>29</sub> = 2007 UY<sub>117</sub> = 2013 CX<sub>151</sub>  
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 2014 PQ<sub>33</sub> = 2005 MP<sub>10</sub>  
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 2014 PK<sub>35</sub> = 2009 TM<sub>11</sub> = 2011 BY<sub>135</sub>  
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 2014 PQ<sub>35</sub> = 2006 YR<sub>39</sub>  
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 2014 PN<sub>37</sub> = 2005 QJ<sub>138</sub> = 2008 GA<sub>59</sub>  
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 2014 PO<sub>38</sub> = 2010 BD<sub>40</sub>  
 2014 PS<sub>38</sub> = 2010 RW<sub>181</sub>  
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 2014 PG<sub>39</sub> = 2001 PF<sub>44</sub>  
 2014 PN<sub>39</sub> = 2011 UF<sub>14</sub>  
 2014 PQ<sub>39</sub> = 2007 EA<sub>99</sub>  
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 2014 PV<sub>39</sub> = 2003 JD  
 2014 PZ<sub>39</sub> = 2003 CN<sub>22</sub> = 2010 VX<sub>49</sub>  
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 2014 PL<sub>45</sub> = 2002 CA<sub>117</sub>  
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 2014 PH<sub>50</sub> = 2010 TL<sub>112</sub>  
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 2014 PM<sub>52</sub> = 2006 BB<sub>250</sub> = 2007 EA<sub>180</sub>  
 2014 PO<sub>52</sub> = 2006 BF<sub>207</sub>  
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 2014 PF<sub>53</sub> = 2004 YB<sub>18</sub> = 2011 WO<sub>107</sub>  
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 2014 PY<sub>65</sub> = 2004 XF<sub>57</sub> = 2013 HP<sub>135</sub>  
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 2014 QO<sub>1</sub> = 2006 HO<sub>73</sub>  
 2014 QP<sub>1</sub> = 2005 JA<sub>148</sub>  
 2014 QP<sub>2</sub> = 2010 CB<sub>160</sub>  
 2014 QQ<sub>2</sub> = 2006 VX<sub>109</sub> = 2010 OV  
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 2014 QL<sub>3</sub> = 2003 WY<sub>173</sub>  
 2014 QB<sub>10</sub> = 1996 JE<sub>10</sub> = 2004 TT<sub>131</sub>  
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 2014 QL<sub>18</sub> = 2006 KF<sub>108</sub>  
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 2014 QJ<sub>24</sub> = 2010 CO<sub>229</sub>  
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 2014 QV<sub>24</sub> = 2010 UY<sub>47</sub>  
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 2014 QY<sub>25</sub> = 2003 UY<sub>130</sub>  
 2014 QZ<sub>25</sub> = 2013 JG<sub>56</sub>  
 2014 QE<sub>26</sub> = 2010 KC<sub>2</sub>  
 2014 QQ<sub>26</sub> = 2003 SZ<sub>343</sub>  
 2014 QL<sub>27</sub> = 2009 SO<sub>199</sub>  
 2014 QO<sub>27</sub> = 1999 FK<sub>64</sub>  
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 2014 QH<sub>28</sub> = 2010 VG<sub>217</sub>  
 2014 QM<sub>28</sub> = 2005 SZ<sub>29</sub>  
 2014 QP<sub>28</sub> = 2014 QB<sub>384</sub> = 2008 EC<sub>99</sub> = 2013 BF<sub>45</sub>  
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 2014 QX<sub>29</sub> = 1995 SW<sub>80</sub>  
 2014 QZ<sub>29</sub> = 2012 BE<sub>43</sub>  
 2014 QE<sub>30</sub> = 2006 WM<sub>96</sub>  
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 2014 QF<sub>32</sub> = 2010 GV<sub>19</sub>  
 2014 QY<sub>32</sub> = 2014 MN<sub>18</sub>  
 2014 QE<sub>33</sub> = 2001 RY<sub>17</sub>  
 2014 QG<sub>33</sub> = 2004 AL<sub>21</sub> = 2008 AD<sub>72</sub>  
 2014 QH<sub>33</sub> = 2005 CD<sub>69</sub>



2014 QD<sub>34</sub> = 2013 CM<sub>26</sub>  
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 2014 QE<sub>36</sub> = 2003 UB<sub>372</sub>  
 2014 QJ<sub>36</sub> = 2001 SS<sub>82</sub> = 2008 YS<sub>30</sub> = 2011 SW<sub>203</sub>  
 2014 QM<sub>37</sub> = 2005 UD<sub>390</sub> = 2007 FL<sub>33</sub>  
 2014 QP<sub>37</sub> = 2010 VZ<sub>196</sub>  
 2014 QZ<sub>37</sub> = 2009 SS<sub>1</sub>  
 2014 QG<sub>38</sub> = 2003 OW<sub>26</sub> = 2010 LS<sub>107</sub>  
 2014 QJ<sub>38</sub> = 1994 US<sub>10</sub>  
 2014 QM<sub>38</sub> = 2006 QC<sub>142</sub> = 2010 RT<sub>16</sub>  
 2014 QO<sub>38</sub> = 2010 XA<sub>66</sub>  
 2014 QX<sub>39</sub> = 2005 YK<sub>187</sub>  
 2014 QH<sub>40</sub> = 2002 VJ<sub>4</sub> = 2006 WV<sub>4</sub>  
 2014 QT<sub>40</sub> = 2005 JY<sub>27</sub> = 2010 OV<sub>21</sub>  
 2014 QP<sub>42</sub> = 2006 UW<sub>298</sub>  
 2014 QX<sub>42</sub> = 2010 PJ<sub>45</sub>  
 2014 QG<sub>47</sub> = 2005 FT<sub>4</sub>  
 2014 QX<sub>49</sub> = 2011 SP<sub>225</sub>  
 2014 QP<sub>52</sub> = 2013 EV<sub>152</sub>  
 2014 QA<sub>53</sub> = 2007 TX<sub>304</sub>  
 2014 QB<sub>53</sub> = 2010 OR<sub>112</sub>  
 2014 QF<sub>54</sub> = 2009 SU<sub>51</sub>  
 2014 QL<sub>54</sub> = 2011 UL<sub>125</sub> = 2011 UG<sub>385</sub>  
 2014 QR<sub>55</sub> = 2012 BU<sub>142</sub>  
 2014 QS<sub>55</sub> = 2010 CH<sub>237</sub>  
 2014 QV<sub>55</sub> = 2009 RP<sub>36</sub>  
 2014 QZ<sub>55</sub> = 2003 WF<sub>178</sub>  
 2014 QL<sub>56</sub> = 2003 TP<sub>36</sub> = 2007 UD<sub>107</sub>  
 2014 QO<sub>57</sub> = 2013 HO<sub>70</sub>  
 2014 QN<sub>59</sub> = 2012 BR<sub>49</sub>  
 2014 QW<sub>62</sub> = 2006 WT<sub>134</sub>  
 2014 QY<sub>62</sub> = 2002 UG<sub>58</sub>  
 2014 QO<sub>63</sub> = 2010 RG<sub>6</sub>  
 2014 QY<sub>64</sub> = 2010 RE<sub>86</sub>  
 2014 QQ<sub>70</sub> = 2005 YX<sub>165</sub>  
 2014 QC<sub>71</sub> = 2009 SM<sub>307</sub>  
 2014 QB<sub>72</sub> = 2010 RU<sub>58</sub>  
 2014 QJ<sub>72</sub> = 2005 YH<sub>199</sub> = 2012 CK<sub>24</sub>  
 2014 QQ<sub>76</sub> = 2003 RW<sub>13</sub>  
 2014 QQ<sub>77</sub> = 2013 HP<sub>134</sub>  
 2014 QE<sub>78</sub> = 2002 AF<sub>195</sub>  
 2014 QW<sub>78</sub> = 2007 EQ<sub>164</sub>  
 2014 QW<sub>81</sub> = 2005 VT<sub>92</sub> = 2010 VS<sub>126</sub>  
 2014 QJ<sub>93</sub> = 2011 UX<sub>384</sub>  
 2014 QV<sub>95</sub> = 2010 AM<sub>85</sub>  
 2014 QV<sub>96</sub> = 2009 SA<sub>312</sub>  
 2014 QV<sub>97</sub> = 2003 SS<sub>19</sub>  
 2014 QX<sub>97</sub> = 1996 SC<sub>2</sub> = 2010 OJ<sub>94</sub>  
 2014 QJ<sub>98</sub> = 2010 DQ<sub>73</sub>

2014 QS<sub>98</sub> = 2006 UH<sub>71</sub>  
 2014 QK<sub>101</sub> = 2007 EK<sub>99</sub>  
 2014 QP<sub>101</sub> = 2010 BV<sub>8</sub>  
 2014 QH<sub>102</sub> = 2010 TJ<sub>60</sub>  
 2014 QO<sub>102</sub> = 2010 TM<sub>52</sub>  
 2014 QR<sub>102</sub> = 2013 JT<sub>52</sub>  
 2014 QZ<sub>102</sub> = 2007 VT<sub>22</sub>  
 2014 QD<sub>104</sub> = 2010 UZ<sub>16</sub>  
 2014 QT<sub>104</sub> = 2005 QM<sub>82</sub>  
 2014 QF<sub>105</sub> = 2005 NY<sub>57</sub> = 2006 WD<sub>93</sub>  
 2014 QL<sub>105</sub> = 2013 JV<sub>29</sub>  
 2014 QG<sub>106</sub> = 2009 BO<sub>109</sub> = 2010 LK<sub>112</sub>  
 2014 QW<sub>106</sub> = 2012 FX<sub>2</sub>  
 2014 QN<sub>108</sub> = 2010 SA<sub>25</sub>  
 2014 QH<sub>110</sub> = 2010 CV<sub>190</sub>  
 2014 QA<sub>112</sub> = 2010 NJ<sub>41</sub> = 2010 TF<sub>63</sub>  
 2014 QG<sub>113</sub> = 2010 TX<sub>16</sub>  
 2014 QR<sub>114</sub> = 2013 EZ<sub>132</sub>  
 2014 QN<sub>117</sub> = 2002 CN<sub>264</sub> = 2013 CC<sub>99</sub>  
 2014 QH<sub>118</sub> = 2005 YN<sub>236</sub>  
 2014 QU<sub>119</sub> = 2012 DS<sub>46</sub>  
 2014 QV<sub>119</sub> = 2013 LZ<sub>3</sub>  
 2014 QO<sub>120</sub> = 2007 EY<sub>142</sub>  
 2014 QS<sub>120</sub> = 2006 QD<sub>180</sub>  
 2014 QV<sub>120</sub> = 1995 UD<sub>28</sub> = 2003 XK<sub>32</sub> = 2010 PC<sub>2</sub>  
 2014 QE<sub>122</sub> = 1995 SX<sub>26</sub> = 2009 DV<sub>4</sub> = 2010 PF<sub>2</sub>  
 2014 QL<sub>123</sub> = 2010 GV<sub>124</sub>  
 2014 QS<sub>123</sub> = 2005 BP<sub>41</sub>  
 2014 QT<sub>123</sub> = 2010 WW<sub>1</sub>  
 2014 QV<sub>123</sub> = 1995 UE<sub>80</sub>  
 2014 QY<sub>123</sub> = 2005 QQ<sub>2</sub>  
 2014 QA<sub>124</sub> = 2003 SJ<sub>411</sub>  
 2014 QR<sub>125</sub> = 2013 HJ<sub>10</sub>  
 2014 QY<sub>125</sub> = 2006 EL<sub>32</sub> = 2013 CW<sub>100</sub>  
 2014 QV<sub>126</sub> = 2009 SP<sub>117</sub>  
 2014 QS<sub>128</sub> = 2006 EW<sub>39</sub>  
 2014 QP<sub>129</sub> = 2012 FU<sub>26</sub>  
 2014 QE<sub>130</sub> = 2010 VN<sub>50</sub>  
 2014 QY<sub>130</sub> = 2005 GA<sub>45</sub>  
 2014 QN<sub>131</sub> = 2009 SF<sub>183</sub>  
 2014 QY<sub>131</sub> = 2006 DV<sub>15</sub>  
 2014 QA<sub>133</sub> = 1995 UD<sub>55</sub>  
 2014 QM<sub>133</sub> = 2010 EF<sub>156</sub>  
 2014 QJ<sub>134</sub> = 2003 FX<sub>96</sub>  
 2014 QQ<sub>134</sub> = 2012 FH<sub>66</sub>  
 2014 QR<sub>134</sub> = 2009 RS<sub>20</sub>  
 2014 QN<sub>135</sub> = 2010 UJ<sub>63</sub>  
 2014 QR<sub>136</sub> = 2003 KA<sub>32</sub> = 2013 EZ<sub>90</sub>  
 2014 QT<sub>137</sub> = 2012 CT<sub>48</sub>  
 2014 QD<sub>138</sub> = 2013 GB<sub>11</sub>  
 2014 QR<sub>138</sub> = 2012 BA<sub>34</sub>  
 2014 QR<sub>139</sub> = 2013 ED<sub>55</sub>



2014 QS<sub>139</sub> = 2009 BW<sub>134</sub>  
 2014 QU<sub>139</sub> = 2013 KF<sub>13</sub>  
 2014 QD<sub>140</sub> = 2007 TW<sub>197</sub>  
 2014 QV<sub>140</sub> = 2006 BS<sub>254</sub> = 2009 SV<sub>264</sub>  
 2014 QK<sub>141</sub> = 2005 YL<sub>187</sub>  
 2014 QP<sub>144</sub> = 2010 AO<sub>85</sub>  
 2014 QX<sub>144</sub> = 2005 ER<sub>146</sub>  
 2014 QK<sub>145</sub> = 2007 EK<sub>60</sub>  
 2014 QV<sub>145</sub> = 2006 EK<sub>29</sub> = 2009 SU<sub>184</sub>  
 2014 QB<sub>146</sub> = 2007 TG<sub>374</sub>  
 2014 QL<sub>148</sub> = 2006 QF<sub>111</sub>  
 2014 QT<sub>148</sub> = 2010 GJ<sub>10</sub>  
 2014 QL<sub>149</sub> = 2006 EG<sub>12</sub> = 2013 CN<sub>98</sub>  
 2014 QO<sub>149</sub> = 2003 SK<sub>365</sub> = 2010 BT<sub>30</sub>  
 2014 QC<sub>150</sub> = 2010 VC<sub>206</sub>  
 2014 QD<sub>150</sub> = 2007 PE<sub>36</sub>  
 2014 QN<sub>150</sub> = 2013 EZ<sub>85</sub>  
 2014 QB<sub>151</sub> = 2001 QX<sub>319</sub>  
 2014 QD<sub>151</sub> = 2009 LE<sub>2</sub>  
 2014 QF<sub>151</sub> = 1999 FJ<sub>75</sub>  
 2014 QX<sub>151</sub> = 2011 SN<sub>186</sub>  
 2014 QF<sub>152</sub> = 2004 JH<sub>9</sub>  
 2014 QZ<sub>152</sub> = 2004 TR<sub>369</sub> = 2007 HZ<sub>61</sub>  
 2014 QG<sub>153</sub> = 2013 JR<sub>19</sub>  
 2014 QL<sub>153</sub> = 2006 DN<sub>74</sub>  
 2014 QN<sub>166</sub> = 2011 KF<sub>11</sub>  
 2014 QO<sub>166</sub> = 2006 QO<sub>132</sub>  
 2014 QR<sub>168</sub> = 2012 YD<sub>8</sub>  
 2014 QR<sub>170</sub> = 2009 SF<sub>172</sub> = 2009 SW<sub>187</sub>  
 2014 QT<sub>170</sub> = 2009 SK<sub>140</sub>  
 2014 QY<sub>170</sub> = 2004 RW<sub>356</sub> = 2005 YZ<sub>238</sub>  
 2014 QV<sub>171</sub> = 2004 RL<sub>238</sub>  
 2014 QE<sub>172</sub> = 2010 TS<sub>143</sub>  
 2014 QG<sub>172</sub> = 2005 WA<sub>130</sub>  
 2014 QY<sub>172</sub> = 2007 TO<sub>409</sub> = 2009 HV<sub>4</sub>  
 2014 QK<sub>173</sub> = 2010 KF<sub>38</sub>  
 2014 QP<sub>173</sub> = 2000 CG<sub>107</sub> = 2010 LY<sub>29</sub> = 2011 UO<sub>43</sub>  
 2014 QT<sub>173</sub> = 2006 CO<sub>77</sub>  
 2014 QQ<sub>174</sub> = 2007 RZ<sub>176</sub>  
 2014 QX<sub>175</sub> = 2012 DB<sub>46</sub>  
 2014 QF<sub>177</sub> = 1995 UJ<sub>72</sub>  
 2014 QS<sub>179</sub> = 2007 TB<sub>292</sub>  
 2014 QT<sub>179</sub> = 2008 KV<sub>30</sub>  
 2014 QW<sub>179</sub> = 2001 RT<sub>138</sub>  
 2014 QC<sub>180</sub> = 2010 WK<sub>57</sub>  
 2014 QT<sub>181</sub> = 2011 WD<sub>9</sub>  
 2014 QH<sub>188</sub> = 2008 CM<sub>93</sub>  
 2014 QF<sub>200</sub> = 2006 BB<sub>119</sub>  
 2014 QM<sub>201</sub> = 2010 TT<sub>144</sub>  
 2014 QD<sub>202</sub> = 2009 UB<sub>126</sub> = 2011 BK<sub>134</sub>  
 2014 QQ<sub>203</sub> = 2014 MS<sub>12</sub> = 2006 HH<sub>85</sub>  
 2014 QD<sub>204</sub> = 2004 TY<sub>317</sub> = 2009 SV<sub>229</sub>

2014 QK<sub>205</sub> = 2003 UA<sub>107</sub> = 2010 AU<sub>133</sub> = 2011 CB<sub>3</sub>  
 2014 QM<sub>205</sub> = 2008 CH<sub>136</sub> = 2010 RU<sub>32</sub>  
 2014 QV<sub>205</sub> = 2003 UE<sub>324</sub>  
 2014 QV<sub>207</sub> = 2012 ET<sub>13</sub>  
 2014 QY<sub>207</sub> = 2012 FP<sub>9</sub>  
 2014 QC<sub>208</sub> = 2011 UC<sub>216</sub>  
 2014 QF<sub>214</sub> = 2011 BB<sub>134</sub>  
 2014 QY<sub>214</sub> = 1999 SR<sub>25</sub> = 2007 XO<sub>57</sub>  
 2014 QS<sub>216</sub> = 2010 BH<sub>124</sub>  
 2014 QY<sub>217</sub> = 2013 EE<sub>49</sub>  
 2014 QT<sub>218</sub> = 2009 SN<sub>28</sub>  
 2014 QB<sub>222</sub> = 2009 SR<sub>62</sub>  
 2014 QV<sub>223</sub> = 2007 TP<sub>370</sub>  
 2014 QB<sub>224</sub> = 2009 SF<sub>286</sub>  
 2014 QQ<sub>224</sub> = 2010 AM<sub>88</sub>  
 2014 QR<sub>225</sub> = 2009 SB<sub>97</sub>  
 2014 QD<sub>227</sub> = 2009 SC<sub>193</sub>  
 2014 QE<sub>227</sub> = 2009 SY<sub>181</sub>  
 2014 QF<sub>227</sub> = 2010 BY<sub>17</sub>  
 2014 QO<sub>228</sub> = 2004 RA<sub>127</sub>  
 2014 QX<sub>228</sub> = 2011 YA<sub>43</sub>  
 2014 QQ<sub>229</sub> = 2012 DG<sub>75</sub>  
 2014 QV<sub>229</sub> = 2012 FF<sub>60</sub>  
 2014 QP<sub>230</sub> = 2005 YG<sub>214</sub> = 2009 QO<sub>31</sub>  
 2014 QH<sub>232</sub> = 2007 RG<sub>17</sub>  
 2014 QP<sub>233</sub> = 2008 FT<sub>47</sub>  
 2014 QZ<sub>235</sub> = 1995 WO<sub>11</sub>  
 2014 QG<sub>236</sub> = 2010 VX<sub>5</sub>  
 2014 QQ<sub>236</sub> = 2009 RV<sub>49</sub>  
 2014 QT<sub>236</sub> = 2007 QD<sub>5</sub>  
 2014 QW<sub>236</sub> = 2002 GU<sub>27</sub>  
 2014 QL<sub>237</sub> = 2009 UW<sub>98</sub>  
 2014 QX<sub>237</sub> = 2011 WY<sub>120</sub>  
 2014 QG<sub>238</sub> = 2007 EP<sub>209</sub>  
 2014 QC<sub>239</sub> = 2004 BH<sub>132</sub> = 2010 FU<sub>60</sub>  
 2014 QR<sub>239</sub> = 2007 VJ<sub>70</sub>  
 2014 QU<sub>239</sub> = 2003 SO<sub>409</sub> = 2013 HU<sub>66</sub>  
 2014 QP<sub>240</sub> = 2005 YG<sub>226</sub> = 2007 EA<sub>17</sub>  
 2014 QB<sub>241</sub> = 2004 GY<sub>86</sub>  
 2014 QD<sub>241</sub> = 2011 UM<sub>230</sub>  
 2014 QK<sub>241</sub> = 2006 HX<sub>22</sub>  
 2014 QN<sub>241</sub> = 2013 JX<sub>25</sub>  
 2014 QP<sub>244</sub> = 2009 XZ<sub>21</sub>  
 2014 QZ<sub>244</sub> = 2013 FP<sub>8</sub>  
 2014 QR<sub>245</sub> = 2012 BO<sub>87</sub>  
 2014 QS<sub>245</sub> = 2010 NV<sub>36</sub>  
 2014 QW<sub>258</sub> = 2011 BG<sub>158</sub>  
 2014 QH<sub>259</sub> = 2009 SM<sub>325</sub>  
 2014 QV<sub>262</sub> = 2006 UG<sub>163</sub> = 2010 NM<sub>26</sub> = 2013 GM<sub>78</sub>  
 2014 QE<sub>266</sub> = 2010 RD<sub>27</sub>  
 2014 QK<sub>267</sub> = 2003 QE<sub>7</sub>  
 2014 QL<sub>267</sub> = 2012 BC<sub>114</sub>



2014 QO<sub>267</sub> = 2005 QA<sub>121</sub>  
 2014 QS<sub>267</sub> = 2010 MA<sub>84</sub>  
 2014 QV<sub>269</sub> = 2007 TJ<sub>348</sub>  
 2014 QF<sub>270</sub> = 2010 UE<sub>72</sub>  
 2014 QU<sub>270</sub> = 2011 UW<sub>359</sub>  
 2014 QF<sub>271</sub> = 2010 FL<sub>25</sub>  
 2014 QL<sub>271</sub> = 2004 JG<sub>55</sub>  
 2014 QY<sub>271</sub> = 2004 TC<sub>22</sub>  
 2014 QF<sub>272</sub> = 2012 CW<sub>54</sub>  
 2014 QO<sub>272</sub> = 2010 RL<sub>70</sub>  
 2014 QU<sub>275</sub> = 2005 SR<sub>209</sub>  
 2014 QN<sub>277</sub> = 2006 KN<sub>82</sub>  
 2014 QD<sub>280</sub> = 2007 EP<sub>4</sub> = 2012 BJ<sub>59</sub>  
 2014 QZ<sub>281</sub> = 2007 BG<sub>93</sub>  
 2014 QC<sub>283</sub> = 2010 MN<sub>29</sub>  
 2014 QX<sub>283</sub> = 2011 AD<sub>33</sub>  
 2014 QC<sub>285</sub> = 2009 UD<sub>112</sub>  
 2014 QT<sub>285</sub> = 2010 CP<sub>53</sub>  
 2014 QS<sub>290</sub> = 2011 UP<sub>109</sub>  
 2014 QC<sub>297</sub> = 2007 PO<sub>31</sub>  
 2014 QL<sub>297</sub> = 2010 JV<sub>170</sub>  
 2014 QF<sub>300</sub> = 2009 DE<sub>77</sub>  
 2014 QO<sub>300</sub> = 2008 CQ<sub>29</sub>  
 2014 QS<sub>300</sub> = 2010 BY<sub>95</sub> = 2010 GD<sub>127</sub> = 2010 PM<sub>36</sub>  
 2014 QW<sub>300</sub> = 2006 BF<sub>60</sub> = 2007 MJ<sub>20</sub> = 2010 BL<sub>85</sub>  
 2014 QA<sub>301</sub> = 2010 GB<sub>18</sub>  
 2014 QJ<sub>301</sub> = 2010 DJ<sub>13</sub>  
 2014 QT<sub>303</sub> = 2010 TA<sub>140</sub>  
 2014 QS<sub>304</sub> = 2010 OA<sub>39</sub>  
 2014 QX<sub>304</sub> = 2004 FV<sub>98</sub> = 2010 RG<sub>175</sub>  
 2014 QE<sub>305</sub> = 2006 SP<sub>235</sub>  
 2014 QS<sub>305</sub> = 2010 EP<sub>60</sub>  
 2014 QU<sub>306</sub> = 2009 VA<sub>3</sub>  
 2014 QU<sub>307</sub> = 2009 WM<sub>122</sub>  
 2014 QW<sub>307</sub> = 2005 UA<sub>219</sub>  
 2014 QA<sub>309</sub> = 2013 GB<sub>20</sub>  
 2014 QG<sub>309</sub> = 2006 CA<sub>5</sub>  
 2014 QU<sub>321</sub> = 2007 VH<sub>289</sub>  
 2014 QX<sub>321</sub> = 2000 ER<sub>146</sub> = 2010 OR<sub>10</sub>  
 2014 QJ<sub>335</sub> = 2003 SA<sub>230</sub>  
 2014 QN<sub>336</sub> = 2008 RK<sub>60</sub>  
 2014 QT<sub>336</sub> = 2013 JP<sub>56</sub>  
 2014 QU<sub>336</sub> = 2008 FF<sub>110</sub>  
 2014 QV<sub>347</sub> = 2004 LZ<sub>27</sub>  
 2014 QK<sub>348</sub> = 2003 SO<sub>351</sub>  
 2014 QM<sub>349</sub> = 2005 QJ<sub>162</sub>  
 2014 QJ<sub>351</sub> = 2010 LY<sub>42</sub> = 2013 LT<sub>18</sub>  
 2014 QQ<sub>351</sub> = 2006 DQ<sub>185</sub> = 2010 CB<sub>211</sub>  
 2014 QO<sub>352</sub> = 2010 OL<sub>58</sub>  
 2014 QU<sub>353</sub> = 2010 UN<sub>9</sub>  
 2014 QN<sub>360</sub> = 2000 SQ<sub>297</sub>  
 2014 QY<sub>362</sub> = 2013 CM<sub>82</sub>

2014 QJ<sub>363</sub> = 2003 BR<sub>93</sub>  
 2014 QB<sub>364</sub> = 2013 CV<sub>88</sub>  
 2014 QA<sub>365</sub> = 2011 LN<sub>19</sub>  
 2014 QC<sub>433</sub> = 2010 KA<sub>27</sub>

## NEW NAMES OF MINOR PLANETS

### (3757) Anagolay = 1982 XB

Discovered 1982 Dec. 14 by E. F. Helin at Palomar.

Anagolay is the goddess of lost things in ancient Philippine Tagalog mythology. Name suggested by the SGAC Name An Asteroid Campaign.

### (3988) Huma = 1986 LA

Discovered 1986 June 4 by E. F. Helin at Palomar.

The Huma (or Homa) are legendary birds within Iranian mythology and Sufi fable. A humma is a bird of fortune since its touch, or even sight of its shadow, is said to be auspicious. Name suggested by the SGAC Name An Asteroid Campaign.

### (4507) Petercollins = 1990 FV

Discovered 1990 Mar. 19 by H. Shiozawa and M. Kizawa at Fujieda.

American amateur astronomer Peter L. Collins has (co-)discovered four novae visually: V1668 Cygni (1978), QU Vulpeculae (1984), QV Vulpeculae (1987) and V1974 Cygni (1992).

### (4633) Marinbica = 1988 AJ<sub>5</sub>

Discovered 1988 Jan. 14 by H. Debehogne at the European Southern Observatory.

Marin Dacian Bica (1970–2013) was a Romanian professor of physics and astronomy, and a popular tutor to Romanian middle school students participating in International Astronomy and Astrophysics Olympiads. Name suggested by the SGAC Name An Asteroid Campaign.

### (4668) Rayjay = 1987 DX<sub>5</sub>

Discovered 1987 Feb. 21 by H. Debehogne at the European Southern Observatory.

Sri Lankan-born and raised Ray Jayawardhana (b. 1971), known as “RayJay”, is an astronomer at the University of Toronto, and an award-winning science writer. Name suggested by the SGAC Name An Asteroid Campaign.

### (4784) Samcarin = 1984 DF<sub>1</sub>

Discovered 1984 Feb. 28 by H. Debehogne at the European Southern Observatory.

Samcarin is the Sanskrit word for wanderer. Name suggested by the SGAC Name An Asteroid Campaign.

### (4793) Slessor = 1988 RR<sub>4</sub>

Discovered 1988 Sept. 1 by H. Debehogne at the European Southern Observatory.

Mary Slessor (1848–1915) was a Scottish missionary to Nigeria. Her work and strong personality allowed her to be accepted by the locals. She campaigned against injustices against women and sought to raise their status. She also took in outcasts and worked tirelessly to protect children, particularly unwanted twins.

### (5305) Bernievolz = 1978 VS<sub>5</sub>

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



Bernard (Bernie) E. Volz (b.1961) is an American amateur astronomer who served as president of the Amherst Area Amateur Astronomers Association and held several offices in the Amateur Telescope Makers of Boston, including two terms as president. He has organized a number of eclipse expeditions throughout the world.

**(5434) Tomwhitney = 1989 ES**

Discovered 1989 Mar. 6 by E. F. Helin at Palomar.

Thomas (Tom) D. Whitney (b.1941) served as president of the Amherst Area Amateur Astronomers Association for more than two decades. He ran weekly daytime solar and nighttime observing sessions, along with planetarium shows and introductory astronomy classes, acquainting the public with the wonders of the heavens.

**(5574) Seagrave = 1984 FS**

Discovered 1984 Mar. 20 by Z. Vávrová at Kletř.

Frank Evans Seagrave (1860–1934) was an American amateur astronomer, who observed the Sun, variable stars, novae, comets and minor planets from his private observatory. He was a prodigious computer of orbits of minor planets and comets, including the 1910 return of 1P/Halley.

**(7301) Matsuitakafumi = 1993 AB**

Discovered 1993 Jan. 2 by A. Natori and T. Urata at Yakiimo.

Takafumi Matsui (b.1946) is Director of the Planetary Exploration Research Center at the Chiba Institute of Technology, and Emeritus Professor at the University of Tokyo. He specializes in astrobiology and comparative planetology, and the study of meteoroid impacts on the evolution of the Earth and life.

**(7399) Somme = 1987 BC<sub>2</sub>**

Discovered 1987 Jan. 29 by E. W. Elst at the European Southern Observatory.

The Somme is a river in Northern France in the département of Picardie. The Celtic name means ‘tranquility’. With a length of nearly 250 km and a source near the city of St. Quentin, the Somme forms an extensive and beautiful bay, rich in flora and fauna, as it enters the English Channel.

**(8136) Landis = 1979 MH<sub>2</sub>**

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

Rob R. Landis (b.1963) is a NEO Program Officer at NASA Headquarters. Rob’s lifelong passion for astronomy has taken him from working part time while in college at Abrams Planetarium, through a widely varied career on NASA missions, including HST, Cassini, Mars Exploration Rovers and the ISS.

**(9018) Galache = 1987 JG**

Discovered 1987 May 5 by A. C. Gilmore and P. M. Kilmartin at Lake Tekapo.

José Luis Galache (b.1975) has worked at the Minor Planet Center (MPC) since 2009 and handles, amongst other things, the MPC’s social media presence. For his doctoral work, he studied X-ray binaries in the Small Magellanic Cloud.

**(9194) Ananoff = 1992 OV<sub>2</sub>**

Discovered 1992 July 26 by E. W. Elst at the European Southern Observatory.

Alexandre Ananoff (1910–1992) was a Russian-French space expert, author of *L’Astronautique* (1950) and organizer of the first International Astronautical Congress. In 1950 he was the first recipient of the Hermann Oberth Medal, and he was an advisor on fellow writer Hergé’s *Adventures of Tintin on the Moon*.

**(9432) Iba = 1997 CQ**

Discovered 1997 Feb. 1 by T. Kobayashi at Oizumi.

Yasuaki Iba (1894–1957) was a trading merchant and an amateur astronomer in Kobe, Japan. He informed the astronomical world that the occurrence of the 1054 Crab supernova was described in Meigetsuki, a famous diary written by Fujiwara-no-Teika.

**(9579) Passchendaele = 1989 GO<sub>4</sub>**

Discovered 1989 Apr. 3 by E. W. Elst at the European Southern Observatory.

Passchendaele is a village in West Flanders, close to Ypres. The village was first mentioned in 844 as Pascandale.

**(9581) Kudo = 1995 BS<sub>3</sub>**

Discovered 1995 Jan. 31 by T. Kobayashi at Oizumi.

Takahiro Kudo (b.1961) is a Japanese amateur astronomer and a key member of the Ota Astronomical Club.

**(10056) Johnschroer = 1988 BX<sub>3</sub>**

Discovered 1988 Jan. 19 by H. Debehogne at the European Southern Observatory.

John A. Schroer, IV (1956–2014) was a planetarium and space science educator for the Michigan Science Center in Detroit. He was also former president of the Great Lakes Planetarium Association and an avid amateur radio operator. His enthusiasm and love of astronomy opened the universe to school children and the public at large.

**(12006) Hruschka = 1996 OO**

Discovered 1996 July 20 by L. Šarounová at Ondřejov.

František Hruschka (1819–1888) invented the centrifugal honey extractor and demonstrated it at an exposition in Brno (now in the Czech Republic) in 1865. He gained recognition for the development of modern beekeeping.

**(12638) Fransbruggen = 1063 T-2**

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

Frans Bruggen (b.1934) is a Dutch recorder player and conductor. He was the founder of the Orchestra of the Eighteenth Century, which is dedicated to performing classical music as authentically as possible. In 2012 he was awarded the Edison Classical Music Award.

**(12639) Tonkoopman = 1105 T-2**

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

Ton Koopman (b.1944) is a Dutch harpsichord player and conductor, specializing in Baroque music. He founded the Amsterdam Baroque Orchestra in 1979, and the Amsterdam Baroque Choir in 1993. With these ensembles, he has given renowned performances of Bach’s St. Matthew’s Passion.

**(13256) Marne = 1998 OZ<sub>14</sub>**

Discovered 1998 July 26 by E. W. Elst at the European Southern Observatory.

The Marne is a river in France with its source on the Langres plateau. With a length of nearly 525 km it runs generally in a north-northwest direction, passing the cities of Chaumont and Châlons-sur-Marne. Below the city of Reims it changes its direction to continue its path to Paris, where it enters the Seine river.

**(13514) Mikerudenko = 1990 MR**

Discovered 1990 June 18 by H. E. Holt at Palomar.



Michael Rudenko (b. 1955) has been an IT specialist at the Minor Planet Center, handling the website and database, since 2009. He (co-)discovered three comets visually: C/1984 V1 (Levy-Rudenko); C/1987 Q1 (Rudenko); and C/1989 Q1 (Okazaki-Levy-Rudenko).

**(13534) Alain-Fournier = 1991 RZ<sub>11</sub>**

Discovered 1991 Sept. 4 by E. W. Elst at the European Southern Observatory.

Alain-Fournier (Henri-Alban Fournier, 1886–1914) was a French novelist and literary critic. In 1913 he published his novel *Le Grand Meaulnes*, which was widely admired and became a classic in French literature.

**(15910) Shinkamigoto = 1997 TU<sub>17</sub>**

Discovered 1997 Oct. 6 by K. Endate and K. Watanabe at Kitami.

Shinkamigoto is a town located in the north of the Goto Islands, a group of 140 islands located in the west of Nagasaki prefecture in southwest Japan.

**(18473) Kikuchijun = 1995 VK<sub>1</sub>**

Discovered 1995 Nov. 15 by K. Endate and K. Watanabe at Kitami.

Jun Kikuchi (b. 1967) purchased his first telescope during the height of Halley's Comet fever in 1986. Though cloudy skies thwarted his attempts at comet photography, his interest in solar eclipse photography led him to France in 1999, and to China in 2008 and 2009.

**(18499) Showalter = 1996 MR**

Discovered 1996 June 22 by NEAT at Haleakala.

Mark R. Showalter (b. 1957), planetary scientist at the SETI Institute, is (co-)discoverer of the Jovian gossamer ring, Saturnian moon Pan, Uranian moons Mab and Cupid, two faint Uranian rings, Neptunian moon S/2004 N 1, and Plutonian moons Kerberos and Styx. He is the leader of the Planetary Data Systems Rings Node.

**(24829) Berounurbi = 1995 SH<sub>1</sub>**

Discovered 1995 Sept. 22 by L. Šarounová at Ondřejov.

The royal Czech town of Beroun was founded in the year 1265, at a strategic position southwest of Prague near the Berounka river. Now an important industrial, transportation and tourist center, the town has a rich history as evidenced by a well-preserved downtown urban zone.

**(25259) Lucarnold = 1998 VK<sub>4</sub>**

Discovered 1998 Nov. 11 by ODAS at Caussols.

Luc Arnold (b. 1965) is an astronomer working at the Observatoire de Haute Provence. His research fields are exobiology and optics, but he observes comets with his homemade telescope.

**(27147) Mercedessosa = 1998 YE<sub>2</sub>**

Discovered 1998 Dec. 17 by ODAS at Caussols.

Mercedes Sosa (1935–2009) was an Argentinian popular singer, also known as La Negra by her fans. She renewed South American folk music, interpreting, among others, songs from Atahualpa Yupanqui and Violetta Parra. She was a goodwill ambassador for UNESCO in South America and the Caribbean.

**(30832) Urbaincreve = 1990 UC<sub>5</sub>**

Discovered 1990 Oct. 16 by E. W. Elst at the European Southern Observatory.

Urbain Creve (1950–2011) was a well-known doctor of medicine at the Stuivenberg clinic in Antwerp and a good friend of the discoverer.

**(31416) Peteworden = 1999 AX<sub>24</sub>**

Discovered 1999 Jan. 15 by ODAS at Caussols.

Simon Peter “Pete” Worden (b. 1949) is director of NASA's Ames Research Center. He was influential in many projects like the Clementine space mission, and indirectly in programs like ODAS, which allowed this asteroid to be discovered. An innovator and space enthusiast, he is a man of vision.

**(39712) Ehimedaigaku = 1996 TJ<sub>54</sub>**

Discovered 1996 Oct. 14 by T. Seki at Geisei.

Ehimedaigaku (Ehime University) is a Japanese national university. Its Research Center for Space and Cosmic Evolution has conducted various deep surveys of the universe and has discovered very high-redshift galaxies.

**(52308) Hanspeterröser = 1991 TE<sub>3</sub>**

Discovered 1991 Oct. 7 by L. D. Schmadel and F. Börngen at Tautenburg.

Hans-Peter Röser (b. 1949), director of the Institute of Space Studies at the University of Stuttgart, participated significantly in the observation campaign of the Kuiper Airborne Observatory and has been one of the key initiators of the subsequent US-German Stratospheric Observatory for Infrared Astronomy.

**(52341) Ballmann = 1992 SB<sub>2</sub>**

Discovered 1992 Sept. 21 by L. D. Schmadel and F. Börngen at Tautenburg.

Helga Ballmann (b. 1954) is the personal assistant of the Director of the Astronomisches Rechen-Institut, Heidelberg. She served for more than four decades at the department for astronomical bibliography and is a very nice and helpful lady. Name proposed by the first discoverer.

**(52457) Enquist = 1995 AE<sub>4</sub>**

Discovered 1995 Jan. 2 by E. W. Elst at Caussols.

Anna Enquist (b. 1945) is a Dutch author and poet, who studied psycho-analysis at Leiden and piano at the conservatory of Den Haag. Her first novel *The Masterpiece* (1994), based on Mozart's *Don Giovanni*, established her fame as a novelist. Music and psycho-analysis, as well as family tragedy, are the major themes of her work.

**(58184) Masayukiyamamoto = 1991 RG<sub>1</sub>**

Discovered 1991 Sept. 7 by T. Seki at Geisei.

Masayuki Yamamoto (b. 1971) is a Japanese planetary scientist. He specializes in upper atmospheric physics, developing in-situ and remote-sensing equipment, and collaborating with JAXA and NASA, as well as with amateur astronomers and high school students.

**(70710) Chuckfellows = 1999 UE<sub>44</sub>**

Discovered 1999 Oct. 29 by the Catalina Sky Survey.

Charles Fellows (b. 1962) is the Project Manager for the OSIRIS-REx Camera Suite. He was also the Lead and Systems Engineer for the Mars Odyssey Gamma Ray Spectrometer, the Thermal Evolved Gas Analyzer on the Phoenix Mars Lander, and was a team member for the DISR instrument that flew on the Cassini mission.

**(70713) Sethmacfarlane = 1999 UL<sub>46</sub>**

Discovered 1999 Oct. 31 by the Catalina Sky Survey.

Seth MacFarlane (b. 1973) writer, actor, and producer, is a founding member of the Board of Advisors to the Science and Entertainment Exchange, a Los Angeles branch office of the National Academy of Sciences. He would later serve as an Executive Producer of the 2014, 13-part TV series “Cosmos: A Spacetime Odyssey”

**(70716) Mehall = 1999 UF<sub>50</sub>**

Discovered 1999 Oct. 30 by the Catalina Sky Survey.



Greg Mehall (b. 1963) is Project Engineer for the Thermal Emission Spectrometer flying on the OSIRIS-REx Asteroid Sample Return Mission. He was also instrument manager, systems engineer, and mission manager for the Mars Global Surveyor TES, Mars Odyssey THEMIS, and Mars Exploration Rovers Mini-TES instruments.

**(70850) Schur = 1999 VU<sub>113</sub>**

Discovered 1999 Nov. 4 by the Catalina Sky Survey.

Chris (b. 1958) and Dawn Schur (b. 1960) are amateur astronomers and amateur paleontologists living in Payson, Arizona. Their astrophotography at their home observatory is of the highest quality and the analysis and cataloging of fossils posted on their extensive website, is quite professional.

**(71480) Roberthatt = 2000 BZ<sub>28</sub>**

Discovered 2000 Jan. 30 by the Catalina Sky Survey.

Robert Hatt (1902–1989) was Director of the Cranbrook Institute of Science in Bloomfield Hills, Michigan (1935–1967). A Fellow in the Zoological Society of London, the New York Zoological Society, and the American Museum of Natural History, his research on the mammals of the U.S. resulted in many scholarly publications.

**(71483) Dickgottfried = 2000 BU<sub>33</sub>**

Discovered 2000 Jan. 30 by the Catalina Sky Survey.

Richard “Dick” Gottfried (b. 1939) is retired from Sigma Aldrich Corp. and St. Josephs Hospital (Tucson, AZ), and is currently active with the Tucson Gem and Mineral Show. He is an amateur paleontologist with a collection that is meticulously catalogued and researched beyond the usual “amateur” quality and ability.

**(79641) Daniloceirani = 1998 SY<sub>2</sub>**

Discovered 1998 Sept. 19 by F. Mallia and G. Masi at Campo Catino.

Danilo Ceirani (b. 1964) is an industrial chemist and Italian history writer, who has published several books on Roman history, Napoleon and World War II.

**(85158) Phyllistrapp = 1987 UT<sub>1</sub>**

Discovered 1987 Oct. 17 by C. S. Shoemaker at Palomar.

Phyllis Trapp (b. 1952) has been an inspiration to many with her indomitable spirit during her courageous 18-year battle with breast cancer. Devoted to her family, she volunteered in her grandsons’ school, encouraging and teaching students through her love and patience, and playing the piano for kindergarten performances.

**(90455) Irenehernandez = 2004 CU<sub>2</sub>**

Discovered 2004 Feb. 12 by R. A. Tucker at Goodricke-Pigott.

Irene González Hernández (1969–2014) was a Spanish-American astronomer who worked as part of the GONG program to make major contributions to our understanding of the inhomogeneous internal structure of the Sun, as well as that of the otherwise invisible far-side of the Sun.

**(121022) Galliano = 1999 BR<sub>13</sub>**

Discovered 1999 Jan. 20 by ODAS at Caussols.

Richard Galliano (b. 1950) is a French accordionist. Inspired by his friend and mentor Astor Piazzolla, he invented a modern form of musette, but has played over the years a wide variety of musical styles (musette, jazz, classical) with great success.

**(151834) Mongkut = 2003 FB<sub>122</sub>**

Discovered 2003 Mar. 26 by V. Reddy at Goodricke-Pigott.

King Mongkut (or Rama IV, 1804–1868) was the monarch of Siam from 1851 to 1868. He embraced Western innovations and initiated the modernization of Siam, both in technology and culture, earning him the nickname “The Father of Science and Technology”. Name suggested by the SGAC Name An Asteroid Campaign.

**(171381) Taipei = 2006 OG<sub>17</sub>**

Discovered 2006 July 22 by H.-C. Lin and Q.-z. Ye at Lulin.

Taipei, known officially as Taipei City, is the political, economic and cultural center of Taiwan.

**(175411) Yilan = 2006 PC<sub>8</sub>**

Discovered 2006 Aug. 12 by H.-C. Lin and Q.-z. Ye at Lulin.

Yilan is a county in northeastern Taiwan, blessed with natural beauty and a rich culture.

**(175450) Phillipklu = 2006 QN<sub>58</sub>**

Discovered 2006 Aug. 27 by H.-C. Lin and Q.-z. Ye at Lulin.

Phillip K. Lu (b. 1932) is a Chinese-born astronomer, translator and poet. He taught and conducted research in astronomy at Connecticut State University for 30 years. He has published nearly 100 research papers and has received Dr. Ta-You Wu’s Science Writer Prize.

**(175451) Linchisheng = 2006 QP<sub>58</sub>**

Discovered 2006 Aug. 27 by H.-C. Lin and Q.-z. Ye at Lulin.

Lin Chi-Sheng (b. 1964) is an amateur astronomer in Taiwan. He is the co-founder of the Taichung Astronomical Society, the Tainan Astronomical Society and the Astronomy Club of Feng Chia University. In 2007 he discovered C/2007 N3 (Lulin) with Q.-z. Ye.

**(197864) Florentpagny = 2004 RQ<sub>1</sub>**

Discovered 2004 Sept. 5 by M. Ory at Vicques.

Florent Pagny (b. 1961) is a French musician. His greatest hits include “N’importe quoi”, “Savoir aimer”, “Ma liberté de penser” and “Les murs porteurs”.

**(197870) Erkman = 2004 RC<sub>8</sub>**

Discovered 2004 Sept. 6 by M. Ory at Vicques.

Suren Erkman (b. 1955) is a professor of the University of Lausanne and an industrial ecology specialist, as well as a friend of the discoverer.

**(200578) Yungchuen = 2001 QW<sub>94</sub>**

Discovered 2001 Aug. 23 by W. K. Y. Yeung at Desert Eagle.

Chuen Yung (1936–2014) was a medical doctor in Hong Kong, who practiced medicine at a clinic on Peng Chau island for fifty years.

**(213770) Fignon = 2003 DK<sub>6</sub>**

Discovered 2003 Feb. 23 by M. Ory at Vicques.

Laurent Fignon (1960–2010) was a famous French professional road bicycle racer. He won the Tour de France in 1983 and 1984, and the Giro d’Italia in 1989.

**(239675) Mottez = 2008 YW<sub>24</sub>**

Discovered 2008 Dec. 26 by B. Christophe at Saint-Sulpice.

Fabrice Mottez (b. 1963) works on plasma astrophysics at the Paris Observatory. His work has contributed to the physics of Earth’s polar auroras, to radio emissions of solar-system planets and satellites, as well as pulsars and their electromagnetic interaction with orbiting companions, including asteroids.

**(276781) Montchaibeux = 2004 JW<sub>16</sub>**

Discovered 2004 May 11 by M. Ory at Vicques.

Montchaibeux is a small mountain in the Swiss Jura. It is located south of the city of Delémont. The summit is just 627 meters high.

**(284996) Rosaparks = 2010 LD<sub>58</sub>**

Discovered 2010 June 9 at WISE.



African-American Rosa Parks (1913–2005) refused to give up her seat to a white passenger on a bus in Montgomery, Alabama in 1955. Her action forced the city to end segregation of public buses and spurred efforts throughout the United States to end segregation. She is known as the Mother of the Civil Rights Movement.

**(289608) Wanli = 2005 GB<sub>22</sub>**

Discovered 2005 Apr. 4 by L. Tesi and G. Fagioli at San Marcello.

Wanli is the professional name of Japanese painter Mari Furukawa (b.1973). Among his many notable works are those dedicated to the sky, including “The nine planets” and the cycle titled “The twenty-eight constellations”.

**(296819) Artesian = 2009 WY<sub>6</sub>**

Discovered 2009 Nov. 17 by T. V. Kryachko at Zelenchukskaya Stn.

The Artesian archaeological expedition was organized by Moscow State Pedagogical University and undertook researches, including archaeoastronomy, on the territory of the Bosporean Kingdom. Over several years the Artesian archaeological expedition discovered a number of ancient astronomical observatories.

**(299756) Kerryaileen = 2006 RO<sub>109</sub>**

Discovered 2006 Sept. 14 by J. Masiero at Mauna Kea.

Kerry Aileen Masiero (b.1984) holds a B.S. in Communications from Boston University and currently works in school administration at Fay School in Southborough, MA. She is the sister of the discoverer.

**(306019) Duren = 2010 DD<sub>27</sub>**

Discovered 2010 Feb. 18 by WISE.

Riley Duren (b.1968) is an American systems engineer who studies climate change. He served as the Chief Engineer for NASA’s Kepler mission and the lead of the Shuttle Radar Topography Mission’s metrology system.

**(336680) Pavolpaulík = 2010 AQ<sub>39</sub>**

Discovered 2010 Jan. 10 by S. Kurti at Mayhill.

Pavol Paulík (1960–2013) was an avid amateur astronomer from childhood. As a member of the astronomy club in Nové Zámky, Slovakia, he was a longtime popularizer of astronomy among the youth.

**(348239) Societadante = 2004 SB<sub>26</sub>**

Discovered 2004 Sept. 20 at Andrushivka.

The Società Dante Alighieri is a society that promotes Italian culture and language around the world. It was founded in July 1889 and named after Dante Alighieri (1265–1321), a major Italian poet of the Middle Ages.

**(353232) Nolwenn = 2010 CB<sub>12</sub>**

Discovered 2010 Feb. 6 by S. Kurti at Mayhill.

Nolwenn Leroy (b.1982) is a French singer and songwriter. She uses her popularity to help various charitable organizations, especially in the fight against inadequate housing with the Abbé Pierre Foundation and as a member of the charity ensemble Les Enfoirés, where she participates in annual pop concerts.

**(353577) Gediminas = 2011 SW<sub>259</sub>**

Discovered\* 2008 Jan. 5 by K. Černis and I. Eglitis at Baldone.

Gediminas (1275–1341) was Grand Duke of Lithuania from 1315 until his death. He is regarded as the strongest contemporary ruler in eastern Europe and a founder of Vilnius, the modern capital of Lithuania. Gediminas started the Gediminian dynasty, which ruled the Grand Duchy of Lithuania until 1572.

**(363582) Folpotat = 2004 CJ<sub>3</sub>**

Discovered 2004 Feb. 9 by M. Ory at Vicques.

The Folpotat is a small river in an isolated Jura valley, Switzerland.

**(365130) Birnfeld = 2009 DU<sub>28</sub>**

Discovered 2009 Feb. 23 by F. Hormuth at Calar Alto.

Birnfeld is a small village located in the Hassberge Nature Park in northern Bavaria, Germany. This typical Franconian locality with half-timbered houses is dominated by a baroque castle. Hikers and night-sky observers find here ideal conditions for inspiring discoveries. Citation by T. G. Müller.

**(365131) Hassberge = 2009 DQ<sub>29</sub>**

Discovered 2009 Feb. 23 by F. Hormuth at Calar Alto.

Hassberge is the name of a small and beautiful Nature Park located northwest of Bamberg, Germany. Many prehistoric refuge forts, medieval castles and palaces show the former importance of this region in central Germany. Citation by T. G. Müller.

**(367406) Buser = 2008 QK<sub>23</sub>**

Discovered 2008 Aug. 30 by M. Griesser at Winterthur.

Elisabeth Buser (b.1959) has been operating a sewing workshop for women from a nearby center for asylum seekers at her home in Winterthur-Hegi for over 10 years. She does this volunteer work on her own initiative. As a mother of six children, she also works as a lollipop lady, helping school children cross the road safely.

**(378917) Stefankarge = 2008 UP<sub>91</sub>**

Discovered 2008 Oct. 28 by E. Schwab at Tzec Maun.

Stefan Karge (b.1963), an amateur astronomer since childhood, is heavily involved in astronomical public education and is an enthusiastic observer of active quasars. He has discovered numerous minor planets at the Taunus Observatory of the Physikalischer Verein and at the Tzec Maun Observatory.

**(391795) Univofutah = 2008 RV<sub>77</sub>**

Discovered 2008 Sept. 8 by P. Wiggins at Tooele.

The University of Utah is the flagship institution of higher learning in Utah. Founded in 1850, it serves over 30 000 students from the USA and the world. It encourages innovation and collaboration between students, faculty and businesses.

**(392142) Solheim = 2009 HV<sub>19</sub>**

Discovered 2009 Apr. 16 by K. Černis and I. Eglitis at Baldone.

Norwegian astronomer Jan Erik Solheim (b.1938) worked on cosmology, photometry of galaxies, astroseismology of white dwarfs and interacting close binary systems. He was a pioneer in the Whole Earth Telescope project, coordinating observations worldwide.



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