Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400001 2006 FW_{17}	17.7	X	327.72945	149.46014	64.36005	2.96265	0.1320251	0.25391335	2.4698980	21	1 26.8	20.6
400002 2006 GN_{20}	17.5	X	62.87162	352.08102	123.27362	3.32320	0.1549043	0.25692032	2.4505886	21	2 24.4	19.9
400003 2006 HG_{32}	17.1	X	312.70422	226.72904	83.13053	7.39853	0.1101212	0.26621526	2.3932097	21	5 20.9	19.8
400004 2006 HD_{34}	17.9	X	307.51526	77.08922	203.96945	2.80149	0.1700363	0.25900995	2.4373903	21	3 22.1	21.0
400005 2006 HD_{72}	17.8	X	18.57732	98.30304	115.73653	5.17636	0.1454611	0.26154545	2.4216123	21	4 26.8	19.9
400006 2006 HV_{90}	17.7	X	353.39158	117.43631	65.86477	2.17188	0.1223515	0.25492496	2.4633596	21	1 24.6	20.5
400007 2006 HP_{91}	17.0	X	274.18305	295.94415	92.89427	7.47649	0.1174119	0.27241117	2.3567821	21	7 15.1	19.7
400008 2006 HL_{103}	17.3	X	291.19275	107.77880	124.20872	13.32790	0.0660270	0.24743984	2.5127906	21	1 13.9	20.8
400009 2006 JC_{28}	17.4	X	308.29181	242.07819	71.43294	4.56286	0.2065969	0.26321653	2.4113520	21	5 2.9	20.2
400010 2006 JC_{29}	17.5	X	309.68730	163.87296	141.97449	3.25352	0.1946773	0.26207754	2.4183334	21	4 26.5	20.2
400011 2006 JF_{81}	17.5	X	292.60609	161.17200	151.47856	2.78329	0.1998853	0.25783791	2.4447711	21	4 11.9	20.8
400012 2006 KH_{11}	17.7	X	302.32439	112.52342	63.57741	26.70468	0.1085112	0.37043001	1.9201358	21	—	—
400013 2006 KE_{24}	15.4	X	313.58654	184.66314	72.51626	3.91848	0.1800101	0.12443783	3.9734501	21	3 20.2	20.6
400014 2006 KD_{108}	17.3	X	290.39950	326.47644	39.75991	8.16603	0.1397546	0.27214181	2.3583370	21	7 2.4	20.2
400015 2006 KH_{126}	17.9	X	256.07914	96.51972	258.19374	0.71156	0.1842802	0.25761536	2.4461789	21	4 27.5	21.4
400016 2006 MG_{13}	16.4	X	220.65300	85.13813	229.75838	14.19540	0.1527930	0.23929054	2.5695222	21	2 2.5	20.9
400017 2006 OX_{10}	17.5	X	224.71860	339.26028	4.65251	4.00600	0.2076857	0.24191084	2.5509336	21	3 17.1	21.6
400018 2006 OG_{14}	17.2	X	225.02464	206.04925	113.13172	7.17381	0.2286221	0.23888581	2.5724236	21	2 16.9	21.6
400019 2006 OT_{14}	17.2	X	227.40616	298.35340	358.85927	3.85677	0.2560525	0.23789528	2.5795592	21	1 23.5	21.8
400020 2006 OA_{22}	16.5	X	164.29698	188.53902	181.74755	14.01579	0.2719393	0.22847906	2.6499547	21	3 2.7	21.2
400021 2006 PZ_{10}	15.7	X	299.43221	160.85354	200.22153	2.36578	0.2812652	0.12461995	3.9695779	21	6 17.3	20.9
400022 2006 PE_{32}	16.3	X	215.19377	203.99345	142.43481	27.51482	0.1232504	0.24128774	2.5553234	21	3 17.0	20.6
400023 2006 PE_{33}	16.6	X	246.24210	224.10680	83.72220	13.06513	0.2513186	0.24178426	2.5518239	21	2 22.0	21.2
400024 2006 PL_{37}	16.6	X	109.45284	215.89190	162.42649	14.26816	0.2628659	0.22626880	2.6671837	21	1 19.5	20.3
400025 2006 QK_{2}	15.2	X	320.37734	43.74931	292.19208	1.68599	0.2281120	0.12537268	3.9536732	21	6 25.6	19.8
400026 2006 QR_{42}	17.3	X	247.19187	260.61578	76.24952	2.85483	0.2224929	0.24439240	2.5336362	21	3 27.4	21.4
400027 2006 QA_{48}	17.3	X	273.85121	314.68195	336.69988	9.26104	0.2333760	0.24414802	2.5353266	21	2 21.5	21.3
400028 2006 QF_{83}	18.1	X	223.78487	173.54595	170.11406	3.07522	0.1722181	0.24138798	2.5546160	21	3 16.8	22.3
400029 2006 QF_{92}	16.9	X	137.85176	52.02498	313.80559	11.99144	0.2856724	0.22820230	2.6520968	21	2 6.4	21.0
400030 2006 QJ_{96}	17.0	X	229.13532	237.80681	125.33390	18.39956	0.2518654	0.24366169	2.5386990	21	4 18.5	21.8
400031 2006 QX_{105}	17.4	X	196.72528	192.39903	187.32285	6.04029	0.2349241	0.24063809	2.5599205	21	4 6.9	21.7
400032 2006 QU_{107}	17.0	X	168.03761	52.06540	331.02325	12.32593	0.1926327	0.23537504	2.5979400	21	3 13.9	21.3
400033 2006 QT_{108}	17.0	X	224.46709	6.84775	289.67422	7.60215	0.3006618	0.23509849	2.5999769	21	1 19.3	21.7
400034 2006 QZ_{116}	17.1	X	238.80736	14.19077	292.87075	3.93120	0.2181496	0.23900786	2.5715478	21	2 11.3	21.5
400035 2006 QF_{119}	16.4	X	117.82371	191.18373	141.77001	10.33357	0.2148339	0.21913478	2.7247616	21	—	—
400036 2006 QY_{121}	16.9	X	158.57771	152.67837	203.44404	6.84501	0.1824757	0.22989713	2.6390464	21	2 2.0	21.2
400037 2006 QA_{135}	17.5	X	204.27480	86.12267	275.72382	3.44823	0.2421586	0.23861206	2.5743907	21	3 20.3	22.0
400038 2006 QM_{155}	16.5	X	124.00719	177.20929	190.01876	19.53208	0.2085677	0.22214311	2.7001060	21	1 14.5	20.8
400039 2006 QS_{164}	17.6	X	215.00648	158.16096	200.24041	13.69636	0.2590591	0.24003552	2.5642028	21	3 24.3	22.3
400040 2006 QK_{167}	17.7	X	228.29786	203.27627	135.97891	6.20293	0.2766357	0.24067005	2.5596938	21	3 13.8	22.3
400041 2006 QW_{186}	17.2	X	196.63471	264.39724	91.84020	1.75771	0.0639469	0.23596771	2.5935880	21	3 7.4	20.8
400042 2006 RX_{20}	17.3	X	247.37204	113.52261	187.16401	6.03690	0.2639918	0.23889064	2.5723889	21	2 7.9	21.8
400043 2006 RK_{57}	17.1	X	219.73057	33.77431	316.17627	10.31821	0.0577752	0.24304978	2.5429583	21	3 18.9	20.8
400044 2006 RH_{82}	17.3	X	153.91669	48.02801	353.78380	3.20226	0.1374739	0.23359317	2.6111348	21	3 22.7	21.2
400045 2006 RA_{83}	17.0	X	155.98734	38.65354	352.01731	3.28387	0.1041989	0.23246215	2.6195974	21	3 8.5	20.6
400046 2006 RC_{100}	16.9	X	239.03823	13.45196	321.63595	14.51772	0.1435692	0.24169824	2.5524293	21	3 15.5	21.1
400047 2006 RT_{100}	17.1	X	221.60235	192.59973	141.70101	14.57669	0.1810402	0.23859489	2.5745142	21	3 5.4	21.4
400048 2006 RX_{107}	17.2	X	271.16087	52.23412	190.13548	11.88360	0.2158400	0.23055882	2.6339946	21	—	—
400049 2006 RG_{120}	16.8	X	204.57405	126.30058	231.25631	14.03737	0.1585174	0.23932380	2.5692841	21	3 11.8	21.2
400050 2006 SR_{26}	16.8	X	234.23314	186.72887	165.36468	13.38382	0.1806762	0.24288558	2.5441042	21	4 7.4	20.9
400051 2006 ST_{38}	18.0	X	232.05637	118.98358	210.68799	3.92912	0.2981179	0.23933400	2.5692110	21	3 1.8	22.7
400052 2006 SQ_{42}	16.5	X	119.14370	332.05272	31.47779	5.48487	0.1542507	0.22004297	2.7172591	21	—	—
400053 2006 SV_{53}	16.5	X	181.55458	127.84578	262.35641	14.08487	0.1750787	0.23830780	2.5765814	21	3 30.6	21.0
400054 2006 SK_{55}	17.1	X	203.19866	272.81330	79.66631	6.28773	0.2189749	0.23532841	2.5982832	21	3 13.6	21.6
400055 2006 SC_{59}	17.3	X	197.73948	51.21984	314.09008	10.56764	0.2120938	0.23731910	2.5837327	21	3 16.6	21.9
400056 2006 SV_{61}	17.7	X	233.50456	299.80577	27.67625	5.23559	0.2427225	0.23973673	2.5663329	21	3 5.2	22.2
400057 2006 SM_{71}	17.1	X	136.52114	161.58477	183.00353	4.28366	0.1260865	0.22011545	2.7166626	21	—	—
400058 2006 SK_{76}	17.4	X	227.58188	203.94807	121.62472	2.14438	0.2377372	0.23617382	2.5920789	21	2 25.5	21.7
400059 2006 SA_{95}	16.8	X	101.34118	157.43224	196.00641	6.09587	0.0548987	0.21398248	2.7683260	21	—	—
400060 2006 SO_{95}	17.5	X	191.23966	195.45293	188.41702	3.33020	0.2828283	0.23639779	2.5904414	21	4 8.5	22.1
400061 2006 SK_{97}	17.0	X	141.67323	137.92257	194.07571	8.74823	0.1196775	0.21902490	2.7256728	21	—	—
400062 2006 SY_{97}	17.2	X	163.03454	344.89656	21.01113	11.42801	0.0923136	0.22802298	2.6534870	21	2 17.8	21.2
400063 2006 SO_{98}	17.2	X	47.50235	192.98878	199.72855	4.02122	0.0767155	0.21099137	2.7944280	21	—	—
400064 2006 SD_{105}	16.6	X	198.14569	65.64806	275.93577	11.35392	0.2885904	0.23323447	2.6138113	21	2 18.2	21.5
400065 2006 SR_{116}	17.3	X	181.65043	305.08691	27.65397	7.25296	0.0929268	0.22594211	2.6697541	21	1 25.6	21.4
400066 2006 SF_{127}	16.7	X	100.59552	307.53834	75.83056	9.63233	0.2578987	0.22009965	2.7167926	21	1 17.4	20.1
400067 2006 SU_{127}	16.4	X	164.59832	142.69941	267.40582	13.77972	0.0840343	0.23801332	2.5787062	21	4 2.8	20.5
400068 2006 SV_{130}	17.4	X	238.84590	349.85098	348.84780	6.27891	0.2935223	0.24036312	2.5618724	21	3 17.8	21.8
400069 2006 SC_{152}	17.1	X	242.46293	19.87418	251.27824	1.66155	0.1031390	0.22788333	2.6545710	21	1 9.6	21.1
400070 2006 SK_{159}	17.5	X	213.21647	302.33741	31.44855	3.85570	0.1534447	0.23344445	2.6122436	21	2 26.1	21.6
400071 2006 SW_{167}	17.0	X	94.07795	84.66970	340.43710	4.88496	0.0552349	0.22789289	2.6544968	21	1 29.9	20.3
400072 2006 SQ_{197}	17.3	X	215.37910	272.42478	71.27492	3.58320	0.1676388	0.23787585	2.5796997	21	3 11.6	21.5
400073 2006 SC_{205}	17.5	X	99.70004	226.51824	190.15516	2.04340	0.0081627	0.22737595	2.6585186	21	1 18.9	21.0
400074 2006 SF_{209}	16.8	X	141.39547	352.75699	43.40684	14.80842	0.2941372	0.22785001	2.6548298	21	3 25.1	21.4
400075 2006 SD_{228}	17.2	X	172.29976	76.29237	221.37697	5.61191	0.1533614	0.22205700	2.7008040	21	—	—
400076 2006 SQ_{232}	17.2	X	139.01438	354.82750	316.48002	3.57766	0.0554505	0.21644813	2.7472625	21	—	—
400077 2006 SY_{238}	17.6	X	153.94453	210.76084	172.39186	6.05784	0.0698566	0.23258489	2.6186757	21	2 20.2	21.3
400078 2006 SU_{266}	16.2	X	348.02421	226.99396	222.98937	13.06232	0.0353618	0.20936957	2.8088401	21	—	—
400079 2006 SV_{287}	15.9	X	50.50998	174.28792	284.08905	21.12748	0.0389048	0.22548419	2.6733675	21	1 9.6	19.2
400080 2006 SC_{292}	16.0	X	103.65774	323.12561	55.88569	17.74998	0.2860725	0.22056491	2.7129707	21	1 22.4	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400081 2006 SS_{301}	17.0	X	186.77890	224.21625	165.25275	13.56609	0.3175755	0.23558731	2.5963792	21	4 15.3	21.9
400082 2006 SC_{311}	17.3	X	209.46325	64.18383	266.98566	2.72535	0.1492180	0.23318497	2.6141811	21	2 16.9	21.4
400083 2006 ST_{333}	17.0	X	166.35426	277.18785	79.39211	2.71349	0.1266352	0.22870250	2.6482284	21	2 8.6	20.9
400084 2006 SJ_{343}	17.0	X	136.99817	123.76892	223.21264	8.30945	0.1214314	0.22049481	2.7135457	21	—	—
400085 2006 SZ_{345}	17.0	X	241.52334	42.55070	280.51608	3.16883	0.2313129	0.23850203	2.5751824	21	3 3.3	21.4
400086 2006 SA_{352}	16.8	X	141.52943	63.95974	320.13438	4.37828	0.1038707	0.22827220	2.6515554	21	2 12.5	20.6
400087 2006 SG_{354}	17.3	X	249.29618	257.10343	57.03846	4.97984	0.3205092	0.23970472	2.5665614	21	2 26.1	21.9
400088 2006 SB_{368}	18.2	X	105.25828	138.61016	205.31279	21.71786	0.1235068	0.34945568	1.9962180	21	—	—
400089 2006 SH_{385}	16.0	X	155.38370	81.24507	89.05105	13.32389	0.1036696	0.18653440	3.0336357	21	9 7.6	20.9
400090 2006 SV_{389}	16.7	X	200.84864	185.44341	108.88140	13.21487	0.1320677	0.22142323	2.7059551	21	—	—
400091 2006 SQ_{390}	17.1	X	166.41106	229.17871	115.97240	12.14452	0.1941537	0.22462537	2.6801772	21	1 31.6	21.4
400092 2006 SQ_{400}	17.1	X	147.02159	262.22316	22.56791	4.60496	0.0317447	0.21230796	2.7828632	21	—	—
400093 2006 SF_{406}	17.1	X	127.95435	183.43129	145.42581	2.52772	0.0830695	0.21580993	2.7526761	21	—	—
400094 2006 SN_{407}	17.6	X	242.59987	103.27739	186.84507	4.27341	0.2762356	0.23386667	2.6090986	21	1 24.1	22.4
400095 2006 SJ_{413}	16.9	X	175.80342	308.60252	73.08220	14.18439	0.2678406	0.23348916	2.6119102	21	4 1.9	21.7
400096 2006 TX_{13}	16.6	X	192.88236	322.89687	64.66641	13.72336	0.1730441	0.23812332	2.5779121	21	4 17.9	20.9
400097 2006 TF_{14}	17.3	X	200.14838	30.42077	324.78717	2.09997	0.2230837	0.23470906	2.6028520	21	3 10.8	21.7
400098 2006 TK_{14}	17.5	X	217.60082	257.40227	79.35254	5.44011	0.2630477	0.23562043	2.5961359	21	3 5.0	22.2
400099 2006 TS_{24}	17.5	X	204.79809	160.28829	210.00150	6.36283	0.1891962	0.23672079	2.5880845	21	3 31.9	21.8
400100 2006 TC_{28}	17.1	X	189.51024	276.81783	58.76233	2.69376	0.2024855	0.22865680	2.6485813	21	2 9.0	21.5
400101 2006 TO_{43}	17.2	X	106.25776	10.40034	40.97636	6.47127	0.0448535	0.22217687	2.6998325	21	1 29.6	20.8
400102 2006 TS_{53}	17.3	X	177.25999	165.30369	203.84928	3.76911	0.2212284	0.23004057	2.6379492	21	3 9.2	21.7
400103 2006 TQ_{58}	16.8	X	195.33408	91.76978	252.35308	10.94971	0.3993537	0.23371213	2.6102487	21	2 20.9	22.2
400104 2006 TF_{65}	16.9	X	162.91238	68.96310	276.11301	6.47418	0.2231743	0.22818018	2.6522682	21	1 28.1	21.2
400105 2006 TF_{75}	17.0	X	168.84203	323.85802	37.76021	5.46064	0.1708192	0.22850387	2.6497629	21	2 21.9	21.2
400106 2006 TJ_{84}	16.7	X	202.95876	98.18528	242.14368	7.96078	0.1396008	0.23113342	2.6296274	21	2 19.7	21.0
400107 2006 TO_{85}	17.2	X	221.57280	108.35859	259.99626	3.40767	0.3239000	0.23997997	2.5645985	21	4 8.2	21.9
400108 2006 TN_{122}	16.9	X	178.20689	299.60545	63.59776	12.34882	0.2018293	0.23084033	2.6318528	21	3 9.5	21.5
400109 2006 TS_{123}	17.4	X	169.64685	238.20277	136.16355	3.04042	0.1249863	0.23037050	2.6354299	21	3 5.0	21.4
400110 2006 TC_{125}	16.9	X	233.92002	36.05259	303.36083	3.10720	0.1795597	0.23411385	2.6072618	21	3 19.4	21.1
400111 2006 TB_{129}	17.4	X	189.53678	223.69354	169.71893	4.31670	0.1612179	0.23571639	2.5954312	21	4 17.9	21.5
400112 2006 UF_{8}	16.7	X	146.98364	295.86483	54.81753	6.34676	0.2106481	0.22330163	2.6907589	21	1 22.8	20.9
400113 2006 UF_{16}	16.7	X	126.28609	124.62621	214.21260	13.56447	0.1325724	0.21399005	2.7682608	21	—	—
400114 2006 UQ_{20}	17.5	X	214.54430	14.11316	314.63956	1.43341	0.1385289	0.23243238	2.6198211	21	2 19.7	21.6
400115 2006 UV_{21}	17.5	X	245.25412	14.57295	300.28429	1.06294	0.1836879	0.23653813	2.5894167	21	2 28.4	21.6
400116 2006 UH_{24}	17.4	X	219.43454	103.98457	217.40304	8.35709	0.2186360	0.23309227	2.6148742	21	2 11.6	22.1
400117 2006 UN_{30}	17.1	X	172.41640	92.06816	213.37794	7.12150	0.1606672	0.22075135	2.7114430	21	—	—
400118 2006 UU_{30}	17.3	X	217.92854	84.34331	214.63433	13.71116	0.1728657	0.22761489	2.6566577	21	1 15.8	22.0
400119 2006 UM_{32}	17.3	X	229.98346	125.92291	211.34763	3.93775	0.2454812	0.23712227	2.5851624	21	3 11.1	21.8
400120 2006 UZ_{51}	17.4	X	169.89580	25.97648	282.02714	1.55685	0.1633724	0.21995827	2.7179566	21	—	—
400121 2006 UE_{58}	17.2	X	155.73619	183.90797	207.70816	11.25732	0.1828310	0.22816873	2.6523569	21	3 14.0	21.5
400122 2006 UG_{84}	17.1	X	194.22788	305.09696	45.97775	8.78380	0.1407072	0.22922082	2.6442347	21	3 4.8	21.4
400123 2006 UL_{88}	17.2	X	132.22400	159.48535	240.95568	6.93202	0.1640002	0.22554148	2.6729147	21	2 26.9	21.2
400124 2006 UM_{88}	17.3	X	193.71452	35.85425	306.46089	2.09641	0.1871417	0.22896039	2.6462395	21	2 18.4	21.6
400125 2006 UY_{100}	16.5	X	84.93880	332.26961	70.68113	7.16169	0.0192805	0.21776856	2.7361460	21	—	—
400126 2006 UP_{105}	16.8	X	89.98526	3.67911	64.59890	9.20855	0.1060039	0.22150317	2.7053040	21	2 8.3	20.3
400127 2006 UO_{106}	17.3	X	215.44633	198.82244	116.50937	3.50148	0.2199800	0.22934520	2.6432786	21	2 5.3	21.7
400128 2006 UG_{126}	17.1	X	352.14186	180.68610	240.44344	5.07179	0.0697848	0.20401804	2.8577463	21	12 24.1	20.6
400129 2006 UK_{128}	16.6	X	143.49740	113.57350	220.94276	7.77050	0.1527255	0.21898049	2.7260413	21	—	—
400130 2006 US_{128}	16.7	X	153.99502	185.58397	218.85408	12.65440	0.1513485	0.23114488	2.6295405	21	3 24.9	20.9
400131 2006 UY_{128}	17.1	X	117.62645	112.41526	222.78695	6.23195	0.0520891	0.21251806	2.7810288	21	—	—
400132 2006 UH_{152}	16.8	X	194.44353	117.30710	210.49211	8.82713	0.1469507	0.22546157	2.6735462	21	1 29.8	21.2
400133 2006 UU_{170}	17.0	X	196.08336	74.43095	192.51825	8.65268	0.1878976	0.21733394	2.7397926	21	—	—
400134 2006 UM_{177}	16.7	X	67.27973	311.87536	77.19250	7.63873	0.1479278	0.21367920	2.7709449	21	—	—
400135 2006 UB_{178}	17.2	X	210.68141	176.98254	164.04724	5.94334	0.2408388	0.23439842	2.6051512	21	3 2.6	21.8
400136 2006 UE_{188}	16.8	X	208.99109	98.13866	251.28495	11.98643	0.2272440	0.23596908	2.5935781	21	3 5.4	21.6
400137 2006 UN_{189}	16.4	X	170.97240	10.46897	344.19499	12.25062	0.1905514	0.22832039	2.6511823	21	2 16.5	20.7
400138 2006 UX_{189}	16.9	X	162.05034	60.42116	304.36163	6.94462	0.1787139	0.22825549	2.6516847	21	2 16.2	21.0
400139 2006 UM_{192}	16.7	X	156.45107	148.42058	251.27182	11.31459	0.1664195	0.23090359	2.6313721	21	3 20.4	21.0
400140 2006 UU_{201}	15.6	X	240.18203	237.87826	294.44027	11.74239	0.2397516	0.18699084	3.0286970	21	11 10.8	20.5
400141 2006 UA_{215}	17.5	X	219.33033	112.35926	233.87879	19.34913	0.0934860	0.36813924	1.9280930	21	2 19.6	20.5
400142 2006 UT_{224}	16.8	X	177.68734	86.72628	227.88129	11.61287	0.1987878	0.22426888	2.6830167	21	1 3.4	21.4
400143 2006 UC_{227}	16.8	X	217.98958	102.71969	219.64984	12.88658	0.1863165	0.23251013	2.6192370	21	2 10.3	21.5
400144 2006 UE_{232}	17.6	X	215.81837	110.98015	235.27374	11.85411	0.2917105	0.23437233	2.6053445	21	3 7.3	22.5
400145 2006 UJ_{244}	17.4	X	221.21831	115.34836	210.80364	10.75568	0.1979905	0.23393439	2.6085951	21	2 18.2	22.0
400146 2006 UZ_{251}	17.1	X	313.93621	95.92929	359.27699	1.28001	0.0357175	0.20343251	2.8632272	21	12 12.9	20.7
400147 2006 UV_{280}	17.2	X	212.90179	98.63182	215.55343	6.95901	0.0313662	0.22438737	2.6820721	21	1 30.4	21.1
400148 2006 UT_{288}	16.3	X	199.84121	285.39091	77.77342	13.11398	0.2792269	0.23428128	2.6060195	21	3 27.9	21.2
400149 2006 UW_{329}	17.3	X	144.39721	140.53082	232.74718	5.59422	0.0132325	0.22174918	2.7033029	21	1 21.5	21.1
400150 2006 UM_{335}	16.1	X	193.11462	241.54493	82.50078	14.03673	0.2763565	0.22770077	2.6559897	21	2 2.4	21.0
400151 2006 UB_{346}	16.9	X	196.12351	299.40923	49.20895	10.85304	0.2633580	0.23024625	2.6363780	21	3 6.9	21.8
400152 2006 VO_{12}	16.5	X	228.11375	83.85182	274.52585	27.03439	0.3876487	0.24173665	2.5521589	21	3 17.3	22.0
400153 2006 VP_{12}	16.3	X	198.43557	84.46821	276.77776	27.69013	0.3407082	0.23524853	2.5988713	21	3 2.6	21.8
400154 2006 VP_{23}	17.3	X	161.63665	132.59209	213.79212	2.35817	0.1290670	0.22153431	2.7050506	21	1 22.3	21.4
400155 2006 VZ_{30}	17.2	X	228.36335	24.17530	294.51225	2.33320	0.2732572	0.23144743	2.6272484	21	2 16.7	21.8
400156 2006 VH_{47}	17.4	X	70.75441	101.11043	317.12901	1.69787	0.0718251	0.21628376	2.7486542	21	—	—
400157 2006 VV_{66}	17.4	X	158.39979	323.47691	74.11624	3.41433	0.2235859	0.23056929	2.6339149	21	3 30.5	21.7
400158 2006 VR_{69}	17.4	X	197.32095	118.22769	238.60512	12.66242	0.3004445	0.23151942	2.6267038	21	3 7.1	22.4
400159 2006 VX_{74}	17.0	X	193.65193	191.11106	184.86218	8.24517	0.2978392	0.23344179	2.6122635	21	4 1.3	21.8
400160 2006 VH_{81}	15.4	X	208.97105	208.26530	239.94208	20.68873	0.1214339	0.17623467	3.1507104	21	7 10.2	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400161 2006 VY_{84}	17.0	X	185.92705	62.18155	337.09362	3.50847	0.2732995	0.23495288	2.6010510	21	4 21.4	21.7
400162 2006 VM_{85}	17.1	X	200.14307	251.28970	121.37378	3.34773	0.2004408	0.23317456	2.6142590	21	4 2.7	21.5
400163 2006 VB_{111}	16.8	X	210.58067	19.94558	309.27228	3.74002	0.2782746	0.22967166	2.6407732	21	2 16.8	21.5
400164 2006 VG_{111}	17.1	X	175.82321	340.24221	24.92880	5.87970	0.2256642	0.22782084	2.6550564	21	3 6.9	21.7
400165 2006 VL_{112}	16.5	X	95.16724	184.06900	262.69762	12.91962	0.2172851	0.22365411	2.6879311	21	3 17.8	20.3
400166 2006 VX_{133}	16.7	X	164.70501	53.18045	264.30425	7.24134	0.2404829	0.21769466	2.7367652	21	1 1.2	21.2
400167 2006 VS_{134}	16.7	X	200.09104	314.29807	65.10517	7.08494	0.2675133	0.23525651	2.5988125	21	4 11.8	21.4
400168 2006 VO_{143}	16.8	X	90.57430	5.90186	17.32899	2.96711	0.0858951	0.22087746	2.7104108	21	—	—
400169 2006 VS_{154}	16.7	X	160.61840	195.87306	201.77159	14.27945	0.2018643	0.23100653	2.6305903	21	3 28.2	20.9
400170 2006 WZ_{16}	16.9	X	165.33539	68.21104	309.94505	4.84660	0.2389967	0.22795097	2.6540458	21	3 10.7	21.4
400171 2006 WY_{18}	16.3	X	103.69531	280.07355	98.26865	14.85548	0.2124548	0.21856706	2.7294778	21	1 7.5	19.6
400172 2006 WZ_{18}	17.2	X	206.58694	70.42932	317.57385	3.13475	0.1902366	0.23618060	2.5920292	21	4 23.7	21.6
400173 2006 WJ_{22}	16.9	X	46.38933	282.99112	167.07074	4.12274	0.0644595	0.21484676	2.7608968	21	—	—
400174 2006 WW_{25}	16.7	X	194.34553	116.08971	226.29701	10.32190	0.2050002	0.22705443	2.6610277	21	2 16.0	21.4
400175 2006 WC_{45}	16.9	X	88.67616	96.98928	197.83609	7.42380	0.0343326	0.19962091	2.8995595	21	11 17.3	21.0
400176 2006 WH_{81}	17.2	X	241.24786	37.54793	280.02852	3.42780	0.2644312	0.23684930	2.5871482	21	2 23.5	21.9
400177 2006 WV_{94}	17.6	X	199.17672	187.02281	188.30364	2.29092	0.2249250	0.23452797	2.6041917	21	4 3.6	22.1
400178 2006 WP_{102}	17.0	X	52.47743	304.67404	70.77539	2.98005	0.0943391	0.20393843	2.8584900	21	—	—
400179 2006 WO_{115}	17.2	X	189.09892	130.43863	217.66761	5.48327	0.2217558	0.22834507	2.6509912	21	2 20.9	21.8
400180 2006 WT_{118}	17.0	X	201.55705	198.73702	199.66680	4.02590	0.2405478	0.23595682	2.5936678	21	5 3.7	21.6
400181 2006 WH_{119}	17.1	X	211.91461	236.92072	50.38522	14.11703	0.2596139	0.22439437	2.6820163	21	1 2.2	22.1
400182 2006 WO_{120}	16.2	X	181.98391	123.24569	241.87335	12.61055	0.2090789	0.22850837	2.6497281	21	3 3.3	21.0
400183 2006 WB_{122}	17.1	X	210.00673	224.45769	123.21527	7.02036	0.2596878	0.23219200	2.6216289	21	3 12.4	21.8
400184 2006 WZ_{133}	16.9	X	216.52141	0.82145	284.35041	4.88069	0.0919520	0.22181434	2.7027734	21	1 2.1	21.0
400185 2006 WC_{139}	17.1	X	193.94482	99.70301	241.17940	6.34239	0.2642727	0.22787892	2.6546052	21	2 16.6	21.9
400186 2006 WU_{146}	16.9	X	94.47860	102.71975	253.55739	8.55283	0.1744969	0.20936070	2.8089194	21	—	—
400187 2006 WK_{187}	17.0	X	164.70527	143.63313	194.95590	8.38015	0.2359840	0.22239582	2.6980602	21	1 23.1	21.6
400188 2006 WG_{200}	17.1	X	199.47730	102.37192	248.23914	2.87549	0.2030018	0.22892980	2.6464752	21	3 4.2	21.7
400189 2006 WJ_{205}	16.4	X	315.23926	67.17592	64.54174	7.12229	0.0452940	0.20487309	2.8497895	21	—	—
400190 2006 XL_{19}	15.5	X	255.73733	171.49382	275.34034	22.41188	0.1149299	0.18102076	3.0949273	21	8 22.0	20.5
400191 2006 XL_{20}	16.2	X	352.84830	189.98770	281.76284	9.37930	0.0751117	0.20340683	2.8634682	21	—	—
400192 2006 XS_{46}	16.5	X	157.66720	99.13293	282.03317	9.52932	0.2724098	0.22645592	2.6657143	21	3 7.4	21.2
400193 Castión	16.5	X	167.46575	165.25468	228.51701	12.50949	0.2916360	0.22982111	2.6396283	21	4 1.2	21.3
400194 2006 XQ_{66}	16.3	X	114.61437	282.85276	111.37861	11.96945	0.1875030	0.21910637	2.7249971	21	2 8.3	20.0
400195 2006 YL_{8}	16.1	X	338.76903	299.29005	112.40936	11.21023	0.1082506	0.18959828	3.0008650	21	11 23.5	19.8
400196 2006 YL_{13}	16.7	X	185.15820	91.41711	327.87853	27.06787	0.4008054	0.23489975	2.6014432	21	5 6.6	22.4
400197 2006 YN_{24}	15.6	X	9.39850	218.04814	92.04231	16.75464	0.0675087	0.17811314	3.1285186	21	8 30.7	19.9
400198 2006 YD_{29}	16.3	X	89.22745	324.58899	309.95641	9.62412	0.0823238	0.18435941	3.0574487	21	10 22.2	21.0
400199 2006 YO_{54}	15.8	X	92.19649	133.27299	121.34556	12.35400	0.0948456	0.17753348	3.1353248	21	10 12.1	20.6
400200 2007 AG_{13}	16.8	X	179.31542	271.73778	118.36415	5.53536	0.3151269	0.22973976	2.6402514	21	4 11.1	21.7
400201 2007 AL_{13}	16.4	X	18.27150	271.04703	115.73695	10.83883	0.0680708	0.19336633	2.9617528	21	12 15.9	20.4
400202 2007 AT_{14}	15.6	X	259.24529	325.25053	106.07970	23.70467	0.1490239	0.17713794	3.1399904	21	8 16.9	20.4
400203 2007 AW_{24}	17.0	X	173.76995	86.07995	309.25111	11.52890	0.2792208	0.22756305	2.6570612	21	4 4.1	22.0
400204 2007 AE_{30}	16.7	X	66.38132	255.92777	137.70892	10.10506	0.0540851	0.19960618	2.8997021	21	—	—
400205 2007 BO	15.8	X	193.67242	357.32513	118.79984	16.84249	0.1704983	0.17116348	3.2126394	21	8 2.3	21.1
400206 2007 BT_{8}	15.7	X	153.27085	271.77175	304.76509	12.07073	0.2137755	0.18038214	3.1022278	21	10 20.3	21.3
400207 2007 BC_{16}	16.6	X	163.55474	156.20587	114.80365	7.85611	0.1465555	0.19239701	2.9716923	21	—	—
400208 2007 BZ_{35}	15.9	X	305.90135	282.06768	119.29128	16.88690	0.0893664	0.18092003	3.0960760	21	9 22.5	20.2
400209 2007 BE_{46}	16.3	X	69.19513	87.54545	324.32217	15.43979	0.0848456	0.20374596	2.8602899	21	—	—
400210 2007 BN_{58}	15.6	X	130.76140	276.30534	317.66886	15.17868	0.1207233	0.17649483	3.1476134	21	10 16.2	20.8
400211 2007 BE_{61}	16.0	X	161.49849	326.42481	309.11303	8.47764	0.0090602	0.19764759	2.9188270	21	—	—
400212 2007 BL_{69}	17.9	X	174.40685	0.24408	133.58826	2.29173	0.1126960	0.30460101	2.1876701	21	8 11.3	20.9
400213 2007 BG_{78}	15.8	X	104.07821	113.90425	129.84075	16.64372	0.1964504	0.17578917	3.1560314	21	10 22.4	21.1
400214 2007 BW_{78}	16.1	X	158.10427	227.82435	287.97372	3.95293	0.0687954	0.16884072	3.2420366	21	8 14.7	20.9
400215 2007 CN_{1}	16.2	X	168.49972	93.90969	129.87818	2.36438	0.1623950	0.18142959	3.0902762	21	11 16.2	21.2
400216 2007 CC_{5}	18.4	X	229.00427	358.45040	143.70899	3.80504	0.0799296	0.31659385	2.1320681	21	11 4.6	20.7
400217 2007 CT_{20}	16.4	X	239.51685	306.84909	137.97232	12.97286	0.0456193	0.17306706	3.1890386	21	8 21.5	21.0
400218 2007 CE_{22}	15.9	X	194.27703	50.43798	136.95243	17.91372	0.1606693	0.18170029	3.0872062	21	11 2.1	21.2
400219 2007 CA_{55}	15.4	X	162.38638	260.28948	280.93221	13.15670	0.2401547	0.17268629	3.1937247	21	9 14.9	21.2
400220 2007 CO_{79}	15.6	X	198.85104	62.93486	132.63723	27.81181	0.1451280	0.18144733	3.0900748	21	11 19.6	21.0
400221 2007 DR_{16}	16.0	X	214.80514	192.72834	357.80970	9.66695	0.0405001	0.18558784	3.0439420	21	11 29.1	20.6
400222 2007 DH_{20}	16.6	X	190.07771	191.21738	11.05742	1.23818	0.1210473	0.18053237	3.1005066	21	11 11.2	21.5
400223 2007 DE_{80}	16.2	X	81.40053	335.17908	339.61876	9.29178	0.0803032	0.18292059	3.0734606	21	12 3.2	20.8
400224 2007 DV_{92}	16.3	X	249.80247	306.30215	153.72102	11.44970	0.0574308	0.17585197	3.1552799	21	9 21.8	20.8
400225 2007 DP_{100}	15.8	X	128.60173	124.86309	150.79816	16.53420	0.0565656	0.18230306	3.0803973	21	12 9.7	20.7
400226 2007 DA_{101}	16.0	X	128.53114	66.15328	145.80245	10.38776	0.0412013	0.17245510	3.1965784	21	9 21.9	20.7
400227 2007 EC_{64}	15.7	X	147.65958	282.69714	324.14196	14.40599	0.2008611	0.18179457	3.0861388	21	11 21.5	21.3
400228 2007 ER_{110}	17.8	X	39.05721	133.15718	123.72407	4.21754	0.1088847	0.29366584	2.2416463	21	8 9.7	19.9
400229 2007 EY_{115}	17.8	X	60.05162	232.05175	42.25172	7.17272	0.1256708	0.29944584	2.2127068	21	10 13.4	20.3
400230 2007 EP_{153}	15.8	X	268.96884	341.96603	149.97797	10.74700	0.0445433	0.18180482	3.0860227	21	11 26.9	20.2
400231 2007 EZ_{172}	18.0	X	21.31722	43.20839	220.26589	1.29808	0.1021660	0.29224401	2.2489112	21	7 15.8	19.8
400232 2007 ET_{219}	15.5	X	270.00537	85.35771	32.44223	10.54922	0.1080668	0.17844568	3.1246306	21	10 29.8	19.8
400233 2007 FY_{15}	17.5	X	171.74844	218.40432	312.62212	4.45754	0.0671022	0.30706495	2.1759515	21	9 28.4	20.3
400234 2007 GL_{11}	16.2	X	180.18984	77.33366	138.86987	9.19237	0.0831062	0.17857420	3.1231313	21	11 22.2	21.1
400235 2007 GC_{48}	17.9	X	54.34726	103.49077	152.72534	2.00794	0.1479672	0.29278270	2.2461518	21	9 10.1	20.3
400236 2007 HS_{53}	16.0	X	308.48814	328.32153	94.35469	5.85482	0.0476871	0.17175871	3.2052128	21	10 22.5	20.4
400237 2007 HX_{61}	18.0	X	339.64827	79.18133	170.55895	2.90921	0.1560002	0.28059530	2.3107296	21	3 27.3	20.0
400238 2007 HS_{66}	15.8	X	156.33359	98.29005	203.19568	14.55281	0.0672124	0.18045630	3.1013778	21	—	—
400239 2007 HA_{85}	17.9	X	8.71149	205.85056	69.92438	4.92015	0.1610718	0.28754721	2.2733341	21	7 14.9	19.6
400240 2007 HX_{95}	18.1	X	347.59364	185.90510	120.17446	11.81228	0.2551859	0.28446615	2.2897197	21	7 8.6	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400241 2007 JX_{44}	17.9	X	40.39282	46.36866	229.41832	6.84532	0.1584733	0.29184928	2.2509385	21	9 15.3	20.3
400242 2007 NZ_{4}	17.3	X	338.36142	254.44593	107.29538	5.37872	0.2767938	0.28555367	2.2839025	21	10 6.7	18.1
400243 2007 ON_{6}	17.4	X	255.78460	208.61312	107.45305	10.43458	0.2256567	0.26399503	2.4066091	21	3 9.9	21.4
400244 2007 PD_{11}	17.0	X	262.40351	64.31801	285.37964	5.99961	0.1263440	0.26749038	2.3855981	21	5 1.4	20.4
400245 2007 PW_{17}	17.5	X	330.18526	36.12729	332.32160	0.60790	0.2260509	0.28421087	2.2910906	21	9 17.2	18.5
400246 2007 PN_{23}	16.9	X	222.47729	92.41294	283.51553	9.54912	0.3019535	0.26250006	2.4157377	21	4 14.4	21.5
400247 2007 PA_{24}	17.7	X	320.09072	55.26431	273.29968	5.15651	0.2147436	0.27587149	2.3370329	21	6 12.1	19.8
400248 2007 PW_{25}	18.1	X	332.55214	352.40559	1.10908	3.18268	0.2748998	0.28150969	2.3057231	21	8 22.5	19.0
400249 2007 PF_{26}	17.3	X	342.30047	235.54243	126.16727	3.53315	0.1789481	0.28481923	2.2878270	21	10 11.5	18.9
400250 2007 PY_{36}	17.8	X	351.64523	92.15027	201.40093	4.58700	0.2413257	0.27864946	2.3214745	21	6 27.6	19.0
400251 2007 PS_{39}	17.6	X	8.05859	147.11496	158.97937	5.58809	0.1838336	0.28387453	2.2928999	21	9 6.7	19.1
400252 2007 PR_{49}	17.6	X	8.17861	80.89118	175.98158	2.50841	0.2216994	0.27519316	2.3408718	21	6 10.2	18.8
400253 2007 PT_{50}	18.0	X	1.18554	31.50556	296.13616	1.65751	0.2242636	0.28481176	2.2878670	21	10 1.7	19.5
400254 2007 RC	17.8	X	336.88490	225.70403	109.29360	3.66549	0.1966326	0.28019625	2.3129230	21	8 7.1	19.1
400255 2007 RW_{4}	16.9	X	228.12570	84.06928	308.10619	7.46028	0.1721092	0.26545855	2.3977555	21	5 17.1	20.7
400256 2007 RG_{24}	17.2	X	320.03129	35.81986	312.44470	7.20001	0.1394291	0.27763231	2.3271411	21	7 27.8	19.1
400257 2007 RF_{26}	18.4	X	297.36898	160.72525	158.28911	2.62676	0.2271272	0.27071949	2.3665900	21	4 21.2	21.4
400258 2007 RG_{36}	17.8	X	225.25965	43.19842	302.61685	1.34966	0.2175558	0.25720179	2.4488004	21	3 17.3	21.8
400259 2007 RR_{65}	18.2	X	263.52146	147.24025	181.89139	0.87978	0.2015272	0.26435569	2.4044197	21	3 31.1	21.8
400260 2007 RK_{87}	17.5	X	211.27914	249.32264	169.89949	2.45805	0.1997640	0.26466772	2.4025295	21	6 6.5	21.3
400261 2007 RM_{115}	18.0	X	219.61557	155.82134	255.28147	2.04164	0.2326268	0.26420638	2.4053255	21	6 1.6	22.0
400262 2007 RY_{117}	17.7	X	29.03687	67.72163	216.36349	2.27341	0.2211543	0.28068652	2.3102289	21	9 20.4	19.8
400263 2007 RP_{137}	15.3	X	246.51436	131.39802	262.42994	1.72580	0.2713499	0.12465235	3.9688900	21	6 3.9	21.7
400264 2007 RW_{139}	18.0	X	277.90450	52.35342	268.00362	1.46346	0.2274333	0.26537047	2.3982861	21	3 30.6	21.5
400265 2007 RP_{143}	17.7	X	246.08102	102.40581	241.41258	1.39902	0.1979436	0.26195188	2.4191068	21	4 2.1	21.6
400266 2007 RP_{147}	17.2	X	249.96801	6.27419	29.66311	5.53201	0.1865561	0.26924312	2.3752335	21	6 13.7	20.8
400267 2007 RU_{148}	17.9	X	318.47568	213.90752	141.95025	3.96191	0.2302454	0.27748063	2.3279891	21	7 21.3	19.7
400268 2007 RO_{149}	17.6	X	324.08399	207.58365	119.47730	6.07204	0.2516495	0.27460314	2.3442237	21	6 11.8	19.6
400269 2007 RE_{206}	17.6	X	221.26247	151.44856	179.10820	1.12701	0.1946999	0.25544096	2.4600410	21	2 24.5	21.8
400270 2007 RA_{218}	17.8	X	262.47834	221.18404	152.97453	1.91795	0.1875267	0.26462950	2.4027608	21	5 30.0	21.2
400271 2007 RQ_{220}	17.7	X	272.17330	353.65575	295.51243	1.50818	0.1792982	0.25629888	2.4545482	21	2 19.8	21.4
400272 2007 RL_{227}	17.9	X	291.96647	225.52415	73.32547	2.20058	0.1660271	0.26293045	2.4131008	21	3 28.1	21.0
400273 2007 RO_{233}	17.4	X	249.24986	224.03309	127.20609	6.27102	0.2123006	0.26259267	2.4151697	21	4 16.8	21.3
400274 2007 RF_{235}	17.7	X	356.59555	305.64292	346.21058	4.27421	0.1777281	0.27604777	2.3360379	21	7 13.3	19.4
400275 2007 RE_{243}	17.7	X	289.13241	280.89915	68.65618	2.11972	0.2122660	0.27111840	2.3642681	21	5 24.5	20.8
400276 2007 RC_{246}	17.9	X	216.81441	259.70326	100.45715	3.18298	0.2267566	0.25841160	2.4411514	21	3 29.9	22.0
400277 2007 RO_{265}	17.6	X	57.77239	5.13300	182.66498	5.55343	0.0279933	0.26452163	2.4034140	21	5 16.8	20.4
400278 2007 RE_{301}	17.8	X	328.71286	207.18689	105.74768	1.69168	0.2236073	0.27193311	2.3595435	21	6 3.5	19.8
400279 2007 RP_{302}	18.2	X	275.98144	323.03824	17.28545	1.26207	0.1851781	0.26325206	2.4111350	21	4 29.6	21.5
400280 2007 RH_{310}	17.1	X	56.07158	48.53910	258.90060	6.78825	0.1395270	0.29086958	2.2559901	21	11 21.5	20.0
400281 2007 RT_{311}	17.1	X	201.35429	301.48309	80.39285	6.83113	0.1854234	0.25917441	2.4363591	21	4 14.6	21.2
400282 2007 RV_{314}	18.1	X	281.77024	118.78446	267.02569	3.81152	0.2506103	0.27426529	2.3461484	21	6 29.0	21.0
400283 2007 SY_{3}	17.6	X	292.11249	259.79146	101.05173	3.37996	0.2285418	0.27261682	2.3555968	21	6 11.2	20.4
400284 2007 SK_{10}	17.5	X	5.14444	52.85809	217.00470	5.63438	0.1800915	0.27224909	2.3577175	21	6 24.6	19.3
400285 2007 SO_{20}	18.0	X	246.21800	207.25880	161.79045	1.42364	0.2063074	0.26007050	2.4307595	21	5 4.9	21.9
400286 2007 TQ_{9}	17.6	X	276.93890	96.38798	261.79737	0.38527	0.2016252	0.26919777	2.3755002	21	5 22.6	20.8
400287 2007 TE_{10}	17.4	X	276.74164	139.89628	181.87422	2.04352	0.2259346	0.26311708	2.4119596	21	4 1.5	21.0
400288 2007 TJ_{46}	16.7	X	139.09345	336.39540	42.67981	13.34888	0.1037512	0.24001734	2.5643323	21	2 7.1	20.5
400289 2007 TH_{51}	17.5	X	334.52775	131.15890	201.30275	4.05353	0.1651218	0.27408262	2.3471908	21	7 27.7	19.4
400290 2007 TT_{64}	17.8	X	265.30562	224.94044	146.52501	1.77151	0.1915869	0.26519935	2.3993177	21	5 29.0	21.1
400291 2007 TS_{69}	16.9	X	32.17131	167.81227	318.29966	6.34870	0.1594384	0.23337395	2.6127697	21	1 16.7	19.3
400292 2007 TM_{79}	17.5	X	300.72647	40.98396	291.94612	1.15817	0.2264368	0.26799060	2.3826286	21	5 14.3	20.4
400293 2007 TU_{89}	18.0	X	302.15172	200.83795	120.98655	3.27980	0.1839838	0.26506915	2.4001033	21	5 9.5	20.8
400294 2007 TJ_{91}	17.3	X	328.54652	89.29973	234.79580	8.43510	0.2374454	0.27296216	2.3536096	21	6 18.9	19.1
400295 2007 TL_{111}	16.9	X	240.94793	31.70000	355.50018	11.99986	0.1878753	0.26479089	2.4017844	21	5 20.3	20.8
400296 2007 TJ_{119}	16.5	X	294.40491	245.90242	254.33931	11.40106	0.1296571	0.21860569	2.7291563	21	—	—
400297 2007 TQ_{124}	15.4	X	267.43185	319.79487	63.51792	4.36238	0.3229145	0.12457055	3.9706272	21	6 4.2	21.6
400298 2007 TU_{124}	16.4	X	316.58198	3.31773	197.41579	12.32830	0.0661191	0.24032626	2.5621344	21	1 5.3	20.1
400299 2007 TN_{126}	17.8	X	336.39660	168.48323	192.97760	2.70262	0.2496360	0.27895489	2.3197796	21	9 21.1	18.8
400300 2007 TQ_{126}	17.5	X	216.87898	320.59291	93.80204	1.35960	0.1805301	0.26171621	2.4205588	21	6 6.1	21.1
400301 2007 TU_{134}	17.8	X	291.66145	143.74528	226.68051	2.21954	0.1876637	0.27452589	2.3446634	21	7 1.5	20.5
400302 2007 TD_{136}	17.5	X	337.93236	132.17361	182.04368	1.39999	0.1983095	0.27224946	2.3577153	21	7 1.7	19.2
400303 2007 TT_{148}	17.1	X	234.22887	230.35371	191.50831	12.36403	0.1680431	0.27027903	2.3691605	21	7 2.8	20.9
400304 2007 TB_{150}	17.3	X	238.52567	137.83705	284.29175	3.90912	0.2341186	0.26966926	2.3727306	21	7 2.8	21.0
400305 2007 TW_{152}	17.7	X	242.40475	156.05642	237.28234	1.64907	0.2243041	0.26580719	2.3956585	21	5 30.6	21.4
400306 2007 TO_{182}	16.6	X	247.55821	307.22127	71.21929	10.07263	0.2240499	0.26335581	2.4105017	21	5 17.3	20.3
400307 2007 TJ_{184}	16.9	X	236.40839	285.88668	90.45120	7.43756	0.1192744	0.26029035	2.4293906	21	5 12.9	20.5
400308 Antonkutter	16.9	X	227.16911	252.27982	41.20290	6.21604	0.1146853	0.24216329	2.5491605	21	1 20.6	20.9
400309 Ralfhofner	17.6	X	306.83090	44.91780	273.90696	5.58794	0.1622738	0.26467000	2.4025157	21	5 13.5	20.5
400310 2007 TX_{185}	17.2	X	213.55414	322.32629	100.32412	2.96350	0.1914864	0.26389991	2.4071873	21	6 13.2	21.1
400311 2007 TD_{244}	17.9	X	301.39648	109.45317	265.14250	4.38789	0.2239785	0.27422758	2.3463635	21	7 17.2	20.1
400312 2007 TE_{244}	14.5	X	263.71348	113.13553	271.57896	7.40740	0.1850140	0.12432511	3.9758514	21	6 17.7	20.3
400313 2007 TH_{274}	17.6	X	227.65685	13.84966	29.04171	2.96199	0.1904864	0.26713224	2.3877298	21	5 31.6	21.3
400314 2007 TT_{281}	16.3	X	294.25010	247.35399	277.26693	13.36566	0.1578141	0.21228667	2.7830493	21	—	—
400315 2007 TT_{325}	17.1	X	309.29589	301.77428	240.62460	8.82975	0.0502645	0.23469527	2.6029540	21	—	—
400316 2007 TT_{330}	17.4	X	311.65721	55.97440	293.02383	1.82793	0.2036375	0.27157581	2.3616126	21	6 30.6	19.6
400317 2007 TP_{332}	16.0	X	290.91852	127.53370	241.39376	3.26144	0.3271815	0.12684150	3.9230918	21	6 9.9	21.5
400318 2007 TU_{338}	17.9	X	273.99226	269.02486	44.25977	7.88655	0.2343041	0.26187168	2.4196007	21	3 21.6	21.7
400319 2007 TB_{356}	17.5	X	249.11336	299.12231	67.16485	8.47715	0.1748242	0.26176463	2.4202603	21	5 7.7	21.1
400320 2007 TG_{357}	15.4	X	262.39533	49.99133	332.80360	1.17882	0.2282727	0.12261014	4.0128396	21	6 9.1	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400321 2007 TH_{367}	17.2	X	202.19037	347.72966	82.05192	6.87524	0.1596388	0.26182256	2.4199033	21	6 12.9	21.0
400322 2007 TH_{385}	17.2	X	306.64752	257.71195	114.55754	5.25071	0.1774939	0.27657359	2.3330761	21	8 2.7	19.4
400323 2007 TJ_{411}	17.9	X	271.02731	255.76445	57.82162	2.15495	0.1923537	0.25987780	2.4319609	21	3 21.0	21.5
400324 2007 TC_{412}	17.8	X	293.02448	90.94026	288.32993	3.84951	0.1640000	0.27331189	2.3516013	21	7 21.3	20.3
400325 2007 TG_{431}	17.9	X	345.26476	268.83068	16.29835	1.76964	0.1347093	0.26494868	2.4008307	21	6 6.6	19.9
400326 2007 TS_{432}	17.2	X	270.74055	295.71396	219.87940	3.68688	0.2338686	0.21809151	2.7334441	21	12 7.0	20.4
400327 2007 TM_{443}	17.6	X	267.09707	205.15900	183.66482	12.17756	0.2550096	0.26788104	2.3832781	21	6 15.5	21.3
400328 2007 TJ_{447}	16.6	X	245.80769	216.30202	43.40615	14.16406	0.1220749	0.23710878	2.5852604	21	—	—
400329 2007 UM_{8}	16.4	X	129.01359	143.06828	269.49983	11.41820	0.0277204	0.24480179	2.5308106	21	2 15.1	19.9
400330 2007 UW_{10}	16.9	X	243.37575	89.02551	308.73767	5.33771	0.1335593	0.26530743	2.3986660	21	6 15.1	20.2
400331 2007 UA_{18}	17.0	X	186.96441	302.76188	121.98247	7.28739	0.2016062	0.25702026	2.4499533	21	5 25.0	21.2
400332 2007 UQ_{18}	17.7	X	295.97853	142.96660	222.90716	2.65499	0.2515241	0.27054721	2.3675946	21	6 20.3	20.4
400333 2007 UO_{33}	17.0	X	265.58692	128.72250	249.89941	9.44944	0.2616754	0.26628665	2.3927819	21	5 30.0	20.5
400334 2007 UB_{34}	17.4	X	114.84657	305.48398	102.57565	9.61975	0.1584932	0.24004441	2.5641395	21	2 19.5	20.8
400335 2007 UO_{34}	16.8	X	291.89134	100.53855	277.18985	6.80585	0.1176414	0.27116180	2.3640158	21	7 24.3	19.6
400336 2007 UZ_{52}	16.6	X	196.06279	218.44083	38.62825	13.26632	0.0788572	0.22795724	2.6539972	21	—	—
400337 2007 UZ_{65}	18.0	X	295.29672	127.60970	233.71507	0.46670	0.1808064	0.27103210	2.3647699	21	6 25.0	20.3
400338 2007 UC_{71}	17.0	X	305.36106	311.13517	208.55621	4.35005	0.1143870	0.22614188	2.6681816	21	—	—
400339 2007 UL_{82}	17.7	X	298.34127	337.76435	331.07048	0.78655	0.1845720	0.26119033	2.4238067	21	4 14.6	20.9
400340 2007 UO_{100}	16.5	X	338.61214	332.57343	240.40342	13.33987	0.0529796	0.24245993	2.5470808	21	2 16.7	20.0
400341 2007 UB_{127}	17.0	X	295.43442	239.20506	63.82287	6.80218	0.1084418	0.25554523	2.4593719	21	4 17.9	20.1
400342 2007 UY_{132}	17.4	X	325.23769	187.84975	125.30647	3.28220	0.2251841	0.26537540	2.3982564	21	5 28.2	19.5
400343 2007 VJ_{2}	16.5	X	67.98273	178.03878	248.52932	13.28675	0.2317214	0.23213205	2.6220803	21	1 7.3	19.0
400344 2007 VP_{12}	16.5	X	135.31254	109.87622	247.84921	13.03682	0.1447633	0.23579549	2.5948508	21	1 5.4	20.3
400345 2007 VC_{40}	15.4	X	278.23669	235.37073	130.27648	4.75767	0.2946682	0.12406285	3.9814527	21	5 28.8	21.3
400346 2007 VT_{47}	17.1	X	133.53970	31.71933	350.61677	4.52196	0.1424087	0.23918730	2.5702615	21	2 5.5	20.6
400347 2007 VD_{59}	17.2	X	254.78608	120.40463	262.61330	6.42852	0.0968502	0.26203192	2.4186141	21	6 13.3	20.5
400348 2007 VO_{61}	17.3	X	263.81439	243.90204	47.98029	9.48174	0.1241950	0.24634989	2.5201969	21	2 26.4	21.2
400349 2007 VG_{80}	17.1	X	344.32289	316.64913	243.84928	12.47933	0.0929195	0.23972445	2.5664206	21	2 4.5	20.6
400350 2007 VD_{84}	17.1	X	110.61646	187.84560	218.00292	4.31790	0.3020089	0.23679046	2.5875768	21	2 27.9	20.7
400351 2007 VK_{91}	16.1	X	11.46537	216.49119	252.80595	20.80963	0.0619516	0.22822470	2.6519232	21	—	—
400352 2007 VA_{100}	17.3	X	35.23774	216.42693	294.63467	2.73846	0.1145455	0.23867900	2.5739093	21	2 24.1	20.1
400353 2007 VX_{104}	17.6	X	274.01654	138.89570	242.57467	4.45404	0.1883136	0.26721397	2.3872429	21	6 22.4	20.8
400354 2007 VV_{109}	17.4	X	308.13116	85.11575	238.64989	13.13543	0.2667401	0.26593381	2.3948980	21	5 4.8	20.4
400355 2007 VX_{126}	18.1	X	189.06287	97.36399	243.25414	20.42137	0.0970982	0.38650592	1.8665170	21	1 6.0	20.5
400356 2007 VP_{135}	17.5	X	34.74015	253.20193	244.17993	19.57730	0.0515083	0.38462349	1.8726021	21	—	—
400357 2007 VW_{156}	17.4	X	307.32021	353.46140	158.38009	2.84924	0.0737008	0.22391584	2.6858361	21	—	—
400358 2007 VN_{161}	16.7	X	234.13488	37.34477	249.20674	12.77351	0.1688901	0.24015927	2.5633219	21	1 13.7	21.1
400359 2007 VH_{173}	15.6	X	273.62807	191.25476	205.26969	12.53980	0.3068877	0.12507824	3.9598756	21	6 26.2	21.7
400360 2007 VY_{180}	15.0	X	267.13285	320.92483	55.74954	4.22510	0.2373763	0.12281291	4.0084214	21	6 5.4	20.9
400361 2007 VL_{189}	17.0	X	33.46730	255.66630	206.72114	21.67902	0.0295259	0.23684726	2.5871631	21	—	—
400362 2007 VK_{219}	17.6	X	263.56181	314.52957	48.92388	1.79141	0.1849444	0.26052256	2.4279467	21	5 16.8	20.9
400363 2007 VE_{226}	16.8	X	356.34274	28.06124	70.53233	12.63393	0.1573844	0.22370558	2.6875188	21	—	—
400364 2007 VG_{272}	17.4	X	266.16447	31.17482	264.26212	2.95159	0.2240280	0.25306047	2.4754444	21	2 17.7	21.4
400365 2007 VQ_{297}	15.9	X	33.28406	263.79728	101.55903	14.34789	0.1342470	0.21836541	2.7311580	21	12 23.5	19.4
400366 2007 VT_{306}	16.7	X	317.11600	348.03573	256.17290	14.01930	0.0444192	0.24289744	2.5440214	21	2 28.5	20.4
400367 2007 VQ_{308}	17.4	X	185.31058	85.85945	244.56427	4.77387	0.1209566	0.23872990	2.5735435	21	1 22.6	21.4
400368 2007 VG_{313}	17.5	X	179.67644	236.34256	94.22330	2.45346	0.1046103	0.23688105	2.5869170	21	1 17.8	21.2
400369 2007 VT_{332}	16.5	X	133.10679	306.59029	103.88424	6.88055	0.1290952	0.23571990	2.5954055	21	3 13.5	20.2
400370 2007 WM_{4}	16.5	X	130.72578	280.48526	121.22336	29.76437	0.2901646	0.23426326	2.6061531	21	3 23.9	21.2
400371 2007 WP_{10}	16.7	X	66.60692	193.60838	294.68770	6.28217	0.1203614	0.24362926	2.5389243	21	3 15.8	19.7
400372 2007 WK_{21}	17.6	X	208.57260	105.25647	280.42532	6.00467	0.1150044	0.25494246	2.4632469	21	4 21.6	21.4
400373 2007 WW_{29}	17.3	X	237.35914	37.86712	328.27634	4.25010	0.1982573	0.25700276	2.4500645	21	4 21.4	21.3
400374 2007 WD_{58}	17.1	X	293.15334	353.25305	342.84271	5.25099	0.1159007	0.26264229	2.4148655	21	5 25.7	20.2
400375 2007 WP_{63}	16.0	X	333.62553	213.47426	258.93169	24.76564	0.1301745	0.22104287	2.7090585	21	—	—
400376 2007 XX_{2}	17.9	X	170.43202	307.88160	91.50639	24.36886	0.0685890	0.38784348	1.8622232	21	3 28.7	20.7
400377 2007 XL_{42}	17.2	X	113.39180	155.11696	273.08535	2.86876	0.1638200	0.23330145	2.6133110	21	3 13.1	20.8
400378 2007 XT_{50}	17.5	X	312.53509	43.23667	119.15369	24.71285	0.0779358	0.36218857	1.9491543	21	—	—
400379 2007 XH_{51}	17.5	X	23.80066	40.21635	86.55574	4.04626	0.1431641	0.23000111	2.6382509	21	1 2.8	20.2
400380 2007 XN_{54}	17.5	X	186.17178	82.79152	300.72458	14.10668	0.2000182	0.24236810	2.5477242	21	3 25.2	22.1
400381 2007 YB_{24}	16.5	X	277.32854	343.09615	292.17279	12.80525	0.1384551	0.23610040	2.5926162	21	2 11.3	20.5
400382 2007 YA_{32}	17.7	X	128.82181	264.95526	110.45471	24.06495	0.1264057	0.37519690	1.9038375	21	—	—
400383 2007 YN_{37}	16.0	X	142.61967	291.80228	99.44375	22.81677	0.0225892	0.23300138	2.6155542	21	2 16.3	19.9
400384 2007 YX_{45}	17.3	X	235.43651	259.62242	126.99211	2.44914	0.2748095	0.25433558	2.4671637	21	5 13.6	21.6
400385 2007 YP_{46}	17.7	X	142.83547	319.45635	114.99665	23.91326	0.0961321	0.38680670	1.8655493	21	4 14.7	20.4
400386 2007 YV_{49}	16.5	X	138.95607	261.52807	105.81223	14.30267	0.1975909	0.23053361	2.6341867	21	2 1.3	20.4
400387 2007 YH_{56}	16.4	X	349.56429	191.74619	303.96243	12.15495	0.0944378	0.21884883	2.7271345	21	—	—
400388 2007 YW_{56}	16.5	X	117.45350	142.27198	302.86824	21.46851	0.0388330	0.23560001	2.5962859	21	3 10.4	20.4
400389 2007 YJ_{74}	16.5	X	70.46136	319.79657	138.68109	14.66499	0.2130298	0.22804347	2.6533281	21	3 2.8	19.3
400390 2008 AH	16.2	X	74.82069	169.93224	297.18733	14.26963	0.0578605	0.23272253	2.6176431	21	2 19.8	19.7
400391 2008 AT_{6}	16.6	X	316.11383	338.85383	254.47443	15.97986	0.0820360	0.24071723	2.5593593	21	2 7.7	20.3
400392 2008 AL_{7}	16.2	X	168.19895	212.31789	118.47777	15.16490	0.0981640	0.22456461	2.6806606	21	1 7.5	20.1
400393 2008 AG_{62}	17.2	X	281.04148	102.79679	284.71371	5.11156	0.1331844	0.26047753	2.4282266	21	7 19.6	20.1
400394 2008 AM_{64}	17.0	X	150.39404	110.48709	287.35237	9.07043	0.0577923	0.23337391	2.6127700	21	3 1.6	20.8
400395 2008 AL_{77}	16.1	X	146.31948	72.99768	99.37843	10.60286	0.1121576	0.18331541	3.0690460	21	8 29.9	21.0
400396 2008 AK_{80}	17.0	X	0.07402	224.32244	270.41961	3.86350	0.0046594	0.22020780	2.7159029	21	—	—
400397 2008 AY_{80}	16.9	X	197.86869	21.89391	144.41712	9.39666	0.1417699	0.19221506	2.9735673	21	10 10.5	21.7
400398 2008 AJ_{92}	16.5	X	105.76738	357.42244	330.98122	8.24239	0.0409274	0.21140514	2.7907805	21	—	—
400399 2008 AP_{94}	17.3	X	259.69637	261.27544	109.95694	4.18886	0.2006516	0.25415078	2.4683595	21	5 22.5	21.0
400400 2008 AJ_{95}	17.1	X	79.81928	267.06578	128.08460	4.96585	0.1782087	0.22197672	2.7014552	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400401 2008 AJ_{110}	16.4	X	60.54792	319.80241	137.54835	22.48259	0.0564096	0.22585958	2.6704045	21	1 23.9	19.9
400402 2008 AP_{111}	16.3	X	75.36180	129.16738	312.95002	8.30483	0.0796035	0.22633579	2.6666574	21	1 28.3	19.4
400403 2008 BJ_{3}	16.5	X	283.54316	231.22729	312.66576	8.39351	0.1436565	0.21489802	2.7604577	21	—	—
400404 2008 BP_{3}	16.7	X	179.42810	262.89605	132.33674	14.61374	0.1038177	0.24130752	2.5551838	21	4 13.1	20.8
400405 2008 BU_{17}	16.4	X	12.04674	300.77622	119.92010	13.48667	0.0861529	0.21171108	2.7880913	21	—	—
400406 2008 BO_{20}	16.0	X	54.30080	132.53410	325.87303	11.75023	0.1464611	0.22568029	2.6718186	21	1 23.9	18.9
400407 2008 BD_{44}	17.0	X	153.83647	40.33361	17.46121	5.62132	0.2195285	0.24241787	2.5473755	21	4 16.9	21.0
400408 2008 BW_{47}	16.0	X	115.28902	6.38381	173.77341	27.43215	0.1180722	0.17065802	3.2189798	21	8 1.5	21.3
400409 2008 CF_{6}	15.4	X	111.87379	127.80192	121.32352	27.91007	0.2364373	0.17444834	3.1721825	21	11 11.5	21.2
400410 2008 CE_{16}	16.3	X	82.65439	316.96058	110.49373	13.98611	0.0060100	0.22375594	2.6871155	21	1 11.9	19.9
400411 2008 CQ_{22}	17.2	X	131.86766	193.99393	152.39334	24.03182	0.0718241	0.36244414	1.9482379	21	—	—
400412 2008 CL_{33}	16.2	X	142.01863	170.93874	262.82542	11.65430	0.2497813	0.24202530	2.5501293	21	4 26.4	20.5
400413 2008 CG_{43}	16.6	X	140.86276	213.91624	122.30492	7.27800	0.0454742	0.21167687	2.7883917	21	—	—
400414 2008 CH_{54}	16.3	X	259.08214	302.61835	292.08504	10.17093	0.1521711	0.21666736	2.7454090	21	—	—
400415 2008 CM_{61}	16.4	X	188.50352	138.60473	150.38670	11.05574	0.1584276	0.20883735	2.8136102	21	—	—
400416 2008 CY_{68}	16.8	X	237.96955	170.20389	64.61016	8.02085	0.0800820	0.21557466	2.7546784	21	—	—
400417 2008 CJ_{73}	16.8	X	177.22153	298.54394	111.27054	13.65992	0.1565803	0.24172478	2.5522425	21	5 1.5	21.1
400418 2008 CE_{78}	17.1	X	141.79846	276.42592	103.50254	13.52569	0.2760266	0.23611675	2.5924965	21	3 1.6	21.5
400419 2008 CL_{88}	16.4	X	223.05100	130.22421	116.24631	7.54556	0.0846556	0.20912399	2.8110386	21	—	—
400420 2008 CM_{98}	16.9	X	262.26668	65.09148	144.36710	4.02909	0.0336666	0.21279900	2.7785806	21	—	—
400421 2008 CQ_{100}	15.6	X	180.37760	269.05843	270.14333	19.59905	0.2022756	0.19019811	2.9945524	21	9 25.1	21.1
400422 2008 CN_{104}	16.7	X	208.41213	225.14536	31.11090	4.13510	0.0499717	0.21106506	2.7937776	21	—	—
400423 2008 CG_{115}	17.2	X	268.39620	97.93090	112.70001	24.35772	0.0874409	0.35988824	1.9574512	21	—	—
400424 2008 CN_{126}	16.7	X	296.12769	295.98188	151.24051	11.70456	0.0669178	0.19701191	2.9251024	21	11 8.7	20.7
400425 2008 CX_{126}	17.0	X	217.59704	358.20011	162.57042	1.62229	0.0873282	0.19437361	2.9515117	21	10 26.2	21.2
400426 2008 CO_{153}	16.7	X	86.51410	312.51293	143.14907	13.00653	0.1504234	0.22859677	2.6490449	21	3 16.0	20.0
400427 2008 CD_{154}	16.9	X	119.80014	250.75071	124.48422	7.28794	0.0852829	0.21637087	2.7479164	21	1 6.2	20.5
400428 2008 CG_{165}	16.5	X	355.17974	189.94929	320.48569	11.18689	0.0585367	0.21803166	2.7339444	21	1 2.2	20.1
400429 2008 CK_{178}	16.3	X	349.35603	146.72523	343.88333	11.03647	0.0877596	0.21749765	2.7384175	21	—	—
400430 2008 CH_{190}	15.6	X	128.63962	283.28262	256.87129	20.81847	0.2777341	0.17613763	3.1518675	21	8 18.4	21.4
400431 2008 CL_{204}	16.1	X	150.19142	148.50234	49.91074	12.76717	0.1359746	0.18151061	3.0893566	21	10 6.1	21.2
400432 2008 CN_{214}	16.7	X	114.00062	30.42851	353.39997	12.47630	0.0225056	0.21596240	2.7513803	21	1 2.7	20.7
400433 2008 DM_{8}	16.4	X	138.32522	216.32958	143.36005	12.41368	0.0442085	0.21866006	2.7287039	21	1 3.4	20.3
400434 2008 DP_{8}	16.1	X	194.59554	258.84956	263.30188	9.56007	0.2127927	0.19020980	2.9944297	21	9 20.9	21.4
400435 2008 DA_{23}	15.9	X	265.45210	276.99429	281.31071	11.31058	0.1527211	0.21111556	2.7933320	21	—	—
400436 2008 DE_{46}	16.7	X	146.98837	270.03609	102.51614	6.62321	0.0368391	0.22186658	2.7023492	21	1 29.2	20.3
400437 2008 DQ_{60}	16.6	X	39.83949	323.91794	43.21840	2.58505	0.0822007	0.19854785	2.9099974	21	12 21.9	20.6
400438 2008 DS_{68}	16.4	X	325.35604	339.17891	171.87249	9.98132	0.1471921	0.20933652	2.8091357	21	—	—
400439 2008 DE_{79}	15.9	X	77.32512	108.67691	185.02058	25.76729	0.2201168	0.17907222	3.1173381	21	11 22.9	21.1
400440 2008 DG_{81}	16.5	X	98.17289	125.00552	171.03800	6.92298	0.0857063	0.19037247	2.9927237	21	12 3.5	21.0
400441 2008 EM_{1}	16.4	X	290.22586	289.74103	279.54085	11.83391	0.1482816	0.21867393	2.7285885	21	—	—
400442 2008 EA_{3}	16.4	X	168.96246	149.19985	90.84150	7.38274	0.0112711	0.19993471	2.8965248	21	12 13.0	20.3
400443 2008 EH_{29}	16.3	X	76.18731	243.74297	29.86784	12.21822	0.1371066	0.17658446	3.1465482	21	10 17.7	20.8
400444 2008 EX_{34}	16.3	X	147.32795	266.54277	305.91723	1.15238	0.2091497	0.18298020	3.0727931	21	10 16.2	21.5
400445 2008 EV_{41}	16.1	X	156.86490	130.62275	177.04575	12.29038	0.1178575	0.20180750	2.8785770	21	—	—
400446 2008 EH_{64}	17.0	X	122.27124	176.46609	207.53990	5.69528	0.0346366	0.21611021	2.7501255	21	1 11.9	20.8
400447 2008 EJ_{81}	16.5	X	184.08393	208.58571	172.80811	32.99305	0.1929027	0.23455466	2.6039941	21	3 30.6	20.9
400448 2008 EA_{135}	16.6	X	321.58468	270.71029	156.24003	5.99117	0.0757818	0.19168766	2.9790190	21	11 15.9	20.4
400449 2008 EG_{137}	16.6	X	160.83093	124.69545	47.60977	4.37523	0.1369348	0.17936031	3.1139992	21	9 11.6	21.6
400450 2008 EM_{147}	16.1	X	91.33919	253.86812	12.91876	12.69420	0.0180247	0.18390758	3.0624544	21	10 10.9	20.5
400451 2008 EO_{152}	16.2	X	65.25171	248.50453	43.90188	14.61097	0.0997014	0.17982698	3.1086094	21	10 24.5	20.5
400452 2008 EP_{154}	16.4	X	89.00422	235.30713	24.06023	9.96169	0.1066692	0.17717664	3.1395332	21	10 10.9	21.0
400453 2008 EH_{162}	16.8	X	194.74876	128.64222	29.42234	2.67158	0.0268258	0.18420152	3.0591956	21	10 1.2	21.2
400454 2008 FJ_{22}	15.6	X	166.01503	111.26432	57.40107	11.54151	0.0681371	0.17747225	3.1360459	21	9 15.8	20.5
400455 2008 FD_{25}	15.5	X	271.45325	181.20890	189.42842	15.56634	0.0369738	0.16753799	3.2588210	21	6 27.5	20.4
400456 2008 FC_{35}	16.5	X	113.95505	101.39493	174.31383	10.57077	0.0778943	0.19088742	2.9873390	21	11 26.3	21.1
400457 2008 FU_{37}	16.3	X	6.25051	318.15858	39.12599	12.11448	0.0770444	0.18225190	3.0809738	21	10 22.4	20.3
400458 2008 FT_{52}	16.8	X	169.32781	42.24199	125.49504	2.33520	0.1111210	0.17895613	3.1186861	21	9 12.7	21.8
400459 2008 FN_{53}	16.7	X	103.14999	105.77751	136.15354	1.63346	0.1511946	0.17695793	3.1421195	21	10 9.7	21.5
400460 2008 FT_{65}	15.9	X	85.88210	67.27420	198.65903	10.61712	0.0894111	0.17645568	3.1480790	21	10 12.5	20.5
400461 2008 FP_{96}	16.3	X	205.22613	61.45324	146.32740	7.50242	0.1418797	0.19310055	2.9644698	21	12 3.8	21.0
400462 2008 FX_{106}	16.6	X	88.43284	355.16603	33.29945	11.71327	0.1488466	0.20653436	2.8344873	21	—	—
400463 2008 FB_{116}	16.9	X	352.90250	16.76602	80.58638	3.24418	0.0285062	0.20291638	2.8680803	21	—	—
400464 2008 FW_{131}	16.6	X	286.64486	248.61069	187.02691	10.13858	0.0407408	0.18368095	3.0649729	21	10 10.1	20.8
400465 2008 FV_{134}	16.8	X	145.21708	37.32807	164.96900	9.44516	0.1017835	0.17815232	3.1280599	21	10 1.1	21.7
400466 2008 GJ_{4}	15.8	X	134.19961	334.95148	225.09215	30.21475	0.2829294	0.17632476	3.1496371	21	9 18.7	21.8
400467 2008 GG_{11}	16.3	X	125.22764	55.92107	210.44452	4.35713	0.1384978	0.18227970	3.0806605	21	11 27.3	21.2
400468 2008 GS_{17}	16.4	X	34.49094	217.49417	147.35532	9.14496	0.0967710	0.18943089	3.0026326	21	12 13.4	20.5
400469 2008 GB_{19}	16.4	X	164.28827	120.53350	58.73176	14.01975	0.0192255	0.17791140	3.1308832	21	9 27.9	21.1
400470 2008 GZ_{23}	16.0	X	251.24495	65.16665	43.14720	11.15913	0.0958918	0.18486033	3.0519230	21	10 1.9	20.4
400471 2008 GZ_{25}	17.2	X	186.70291	206.37096	133.09411	4.99083	0.0792883	0.21535813	2.7565246	21	2 6.8	21.2
400472 2008 GT_{29}	16.4	X	79.25165	272.26366	9.60367	4.47921	0.1272030	0.18120051	3.0928803	21	10 28.6	20.9
400473 2008 GG_{37}	16.5	X	115.05021	25.13934	196.44293	8.55197	0.1390635	0.17371811	3.1810658	21	9 24.1	21.4
400474 2008 GC_{43}	16.5	X	243.89876	276.68458	198.49125	9.26521	0.0463631	0.18265114	3.0764825	21	10 3.2	20.7
400475 2008 GG_{47}	15.5	X	229.41782	89.36111	67.22073	20.49281	0.1057845	0.18482000	3.0523670	21	11 5.0	20.1
400476 2008 GS_{49}	16.0	X	148.87846	7.02143	193.15128	10.52898	0.0767011	0.17819231	3.1275919	21	9 29.5	20.8
400477 2008 GU_{57}	16.6	X	344.92837	210.91277	184.06049	5.82196	0.0349504	0.18698421	3.0287686	21	11 7.5	20.6
400478 2008 GC_{82}	16.5	X	190.11142	79.99910	75.39738	7.86591	0.0707371	0.17958303	3.1114239	21	9 23.4	21.3
400479 2008 GP_{89}	16.3	X	164.01688	176.61175	56.11535	2.43170	0.2778042	0.18564079	3.0433631	21	11 20.9	21.9
400480 2008 GB_{132}	16.0	X	93.13138	173.80315	153.34261	9.29814	0.1118294	0.18561978	3.0435928	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400481 2008 GO_{139}	16.0	X	91.17085	73.39186	193.71645	7.95433	0.0408513	0.17870005	3.1216648	21	10 14.5	20.3
400482 2008 HV_{1}	16.4	X	167.02897	81.05155	137.31941	7.96514	0.1022141	0.18294758	3.0731583	21	11 11.9	21.3
400483 2008 HF_{4}	15.6	X	93.69253	198.75451	93.22232	14.20494	0.1861870	0.18205371	3.0832094	21	12 2.9	20.5
400484 2008 HL_{7}	15.8	X	160.51086	92.68522	161.01760	12.52013	0.1591910	0.18815137	3.0162300	21	12 14.9	20.9
400485 2008 HX_{8}	15.9	X	253.04610	341.35866	106.92725	12.12919	0.1247212	0.17678469	3.1441719	21	9 4.2	20.6
400486 2008 HL_{10}	16.7	X	181.28033	205.37067	26.87189	0.66665	0.1169650	0.19140180	2.9819844	21	12 9.6	21.4
400487 2008 HH_{24}	16.0	X	102.83057	182.54574	136.44758	10.47003	0.0877123	0.18948665	3.0020434	21	—	—
400488 2008 HM_{34}	15.9	X	133.17922	205.03502	90.23482	17.70390	0.1507320	0.18823615	3.0153243	21	—	—
400489 2008 HW_{57}	16.4	X	128.23758	90.10797	138.54457	11.88297	0.0454990	0.17730102	3.1380647	21	10 14.7	21.2
400490 2008 HJ_{69}	15.7	X	112.80274	162.74655	119.38446	14.57679	0.1610242	0.18141681	3.0904213	21	12 7.4	20.8
400491 2008 JW_{3}	16.2	X	96.42697	140.44022	177.58917	17.33465	0.2355435	0.18194111	3.0844814	21	—	—
400492 2008 JG_{4}	16.3	X	102.96127	148.90876	159.73389	8.14977	0.2677979	0.17991518	3.1075933	21	—	—
400493 2008 JJ_{5}	16.8	X	129.51526	62.25922	206.38497	14.21392	0.2774735	0.18538625	3.0461482	21	12 8.3	22.4
400494 2008 JK_{6}	16.1	X	218.93088	34.77030	77.28017	16.66216	0.0382631	0.17392456	3.1785480	21	9 8.7	21.0
400495 2008 JF_{9}	16.0	X	146.89290	138.49558	100.58360	12.28883	0.0996568	0.18206411	3.0830920	21	11 17.5	20.9
400496 2008 JS_{11}	15.9	X	146.72121	27.85733	220.66250	13.18762	0.1027959	0.18290630	3.0736207	21	11 25.6	20.7
400497 2008 JZ_{17}	15.5	X	205.79745	261.13888	211.02788	15.76657	0.0834853	0.16840779	3.2475905	21	8 7.6	20.7
400498 2008 JF_{23}	15.7	X	354.39140	168.61754	207.71762	23.61539	0.0909593	0.17757101	3.1348830	21	10 28.0	19.6
400499 2008 JV_{25}	15.7	X	151.81500	127.32718	109.21566	12.58175	0.0758103	0.18275959	3.0752654	21	11 19.4	20.6
400500 2008 JH_{36}	16.0	X	194.66783	88.48384	93.94982	11.49157	0.1467955	0.18175060	3.0866364	21	10 27.2	21.1
400501 2008 KN_{8}	16.0	X	67.42578	254.79809	72.94710	16.78318	0.2559166	0.17678019	3.1442252	21	12 23.6	20.9
400502 2008 KK_{15}	15.9	X	328.74614	271.01765	112.33042	14.86394	0.1734346	0.17089659	3.2159832	21	9 27.9	19.8
400503 2008 KF_{17}	16.3	X	138.79922	127.63937	106.64323	11.10749	0.1776170	0.17848968	3.1241171	21	11 6.9	21.6
400504 2008 KT_{25}	16.1	X	199.32352	263.10287	215.24273	24.15894	0.2658986	0.17364860	3.1819146	21	7 30.0	22.1
400505 2008 KN_{27}	16.2	X	76.12207	261.32385	75.64390	16.25720	0.3560497	0.18004078	3.1061479	21	—	—
400506 2008 KP_{41}	16.5	X	110.40535	65.10784	197.72263	16.05914	0.2595011	0.17626078	3.1503993	21	11 17.9	22.0
400507 2008 KX_{41}	16.0	X	308.17967	293.05607	109.14791	15.98808	0.0629051	0.17300706	3.1897758	21	9 30.1	20.5
400508 2008 KW_{42}	16.2	X	5.40796	168.10524	139.28710	10.89909	0.1896775	0.16181573	3.3352026	21	8 19.9	19.8
400509 2008 LP_{8}	16.0	X	228.08551	281.45329	193.14615	9.94335	0.0280224	0.17105142	3.2140423	21	9 13.7	20.6
400510 2008 OA_{13}	18.2	X	17.09645	159.41876	183.84910	1.10052	0.1548054	0.31376524	2.1448627	21	11 24.6	20.0
400511 2008 RF_{89}	18.2	X	22.58158	39.03773	327.41833	6.49411	0.1789745	0.31318247	2.1475227	21	—	—
400512 2008 RC_{140}	17.3	X	95.49711	63.90309	70.40306	8.04948	0.0699460	0.27141808	2.3625274	21	5 2.6	20.1
400513 2008 SP_{3}	17.7	X	61.09466	157.06103	152.33436	4.97650	0.2501257	0.31467789	2.1407136	21	12 17.7	20.8
400514 2008 SN_{59}	16.4	X	131.40169	226.25717	184.96968	7.60657	0.1468062	0.18695231	3.0291132	21	3 16.9	21.1
400515 2008 SY_{63}	18.2	X	10.01376	187.07751	192.83103	4.84140	0.1729107	0.31213614	2.1523192	21	—	—
400516 2008 SV_{73}	17.1	X	144.47576	262.64731	208.11902	5.53421	0.0765947	0.28216072	2.3021751	21	6 2.9	20.2
400517 2008 SP_{119}	18.3	X	325.15327	314.55519	87.43416	0.25265	0.1818979	0.30457642	2.1877878	21	11 11.1	19.6
400518 2008 SL_{166}	18.5	X	68.50873	163.96769	156.78039	3.33583	0.2136440	0.31590807	2.1351525	21	—	—
400519 2008 SB_{196}	15.5	X	193.50518	241.75516	185.73955	2.07364	0.1140448	0.12435013	3.9753180	21	6 6.5	21.5
400520 2008 SJ_{223}	18.0	X	107.89518	270.34295	223.25292	4.92259	0.1064680	0.27965855	2.3158867	21	5 22.7	20.9
400521 2008 SH_{236}	15.3	X	147.88979	300.49670	353.50917	26.25918	0.1657908	0.17817835	3.1277553	21	—	—
400522 2008 SN_{243}	17.9	X	355.29596	300.49746	51.85843	4.13999	0.1888138	0.30276487	2.1965060	21	10 31.2	19.4
400523 2008 SY_{245}	17.8	X	41.46296	327.21546	220.46549	6.09043	0.1528174	0.27453027	2.3446385	21	4 29.6	19.6
400524 2008 SR_{257}	16.8	X	240.81068	269.51697	41.43779	6.97218	0.1243358	0.27101167	2.3648888	21	2 21.9	20.4
400525 2008 SU_{266}	18.4	X	83.61290	264.23017	33.42063	4.20037	0.2706677	0.31577300	2.1357613	21	12 23.8	21.8
400526 2008 SK_{273}	16.9	X	307.25312	203.85920	41.78665	6.57750	0.1084155	0.26386896	2.4073756	21	2 14.7	20.1
400527 2008 SL_{283}	18.4	X	67.51146	93.51365	234.65875	0.99926	0.1626117	0.31309773	2.1479101	21	—	—
400528 2008 SM_{309}	15.5	X	209.94539	248.30209	176.44129	3.01893	0.2502523	0.12405288	3.9816659	21	6 13.0	22.1
400529 2008 TZ_{6}	18.9	X	10.25800	357.37693	339.73112	0.53322	0.2279462	0.30695139	2.1764882	21	11 14.2	20.4
400530 2008 TA_{60}	18.0	X	331.90152	123.96530	176.36999	4.15247	0.0814022	0.28769327	2.2725647	21	6 10.7	20.3
400531 2008 TW_{65}	18.4	X	316.15679	151.28764	210.16238	6.03851	0.1709142	0.29796772	2.2200184	21	8 3.9	20.4
400532 2008 UF_{38}	17.1	X	22.84653	122.01879	38.70324	12.20857	0.1261277	0.25918928	2.4362659	21	2 17.8	19.8
400533 2008 UT_{47}	18.2	X	220.29219	147.84119	244.94520	5.76987	0.1089185	0.27766013	2.3269856	21	5 14.6	21.6
400534 2008 UA_{65}	17.9	X	12.75782	76.65315	262.61202	5.13870	0.2009627	0.30358095	2.1925678	21	11 15.7	19.8
400535 2008 UV_{93}	17.0	X	191.31968	344.79716	64.17550	25.00086	0.2311028	0.27450184	2.3448004	21	5 10.9	21.1
400536 2008 UD_{111}	18.2	X	8.54099	345.29080	333.38099	3.12914	0.1841729	0.29938596	2.2130018	21	9 30.5	19.8
400537 2008 UP_{117}	18.7	X	64.77218	22.94962	298.88544	3.41415	0.1823729	0.31189120	2.1534459	21	12 30.0	21.7
400538 2008 UQ_{120}	17.5	X	320.90982	24.92792	290.43372	6.31761	0.1298427	0.28581553	2.2825073	21	6 6.5	19.7
400539 2008 UD_{172}	17.4	X	231.69167	341.29470	40.08464	8.91238	0.1238635	0.27886347	2.3202866	21	5 10.3	20.7
400540 2008 UJ_{213}	17.4	X	164.63354	195.75664	269.14785	5.78991	0.0518921	0.28451325	2.2894670	21	6 17.9	20.2
400541 2008 UU_{214}	17.4	X	9.38896	39.74397	292.10073	4.89021	0.2160851	0.30369843	2.1920024	21	10 29.6	19.2
400542 2008 UX_{226}	18.6	X	60.91806	33.28250	310.26177	1.82162	0.3290551	0.31641016	2.1328932	21	—	—
400543 2008 UX_{228}	17.9	X	330.89493	271.67181	45.11843	8.11998	0.1648467	0.28743854	2.2739071	21	6 23.7	19.9
400544 2008 UK_{230}	16.0	X	291.04355	348.67756	112.27777	26.89836	0.1324918	0.21657962	2.7461504	21	11 22.2	19.8
400545 2008 UE_{243}	17.7	X	64.58127	335.06481	309.96251	6.95244	0.1598544	0.30116301	2.2042878	21	11 3.5	20.6
400546 2008 UB_{256}	17.5	X	167.83922	10.32429	52.58319	7.59108	0.0977581	0.27275461	2.3548034	21	4 28.7	20.7
400547 2008 UT_{281}	17.6	X	188.35012	356.42846	49.08693	7.74186	0.0949853	0.27238013	2.3569612	21	4 28.1	20.8
400548 2008 UF_{286}	17.9	X	203.42711	236.34561	180.01545	4.31444	0.1259538	0.28026189	2.3125618	21	5 28.5	21.3
400549 2008 UF_{308}	16.8	X	80.61067	354.73618	239.98553	24.95459	0.2777387	0.29199356	2.2501969	21	9 22.8	20.8
400550 2008 UV_{320}	18.0	X	19.57953	76.36503	228.66015	7.25814	0.2107674	0.30154610	2.2024205	21	10 5.3	19.8
400551 2008 UR_{368}	17.5	X	20.59869	215.73995	74.85049	7.74753	0.1308113	0.29077748	2.2564664	21	9 6.1	19.7
400552 2008 VL_{27}	17.2	X	31.98684	201.80520	27.39551	8.07130	0.1921979	0.27978172	2.3152070	21	6 21.9	19.1
400553 2008 VK_{46}	18.6	X	40.69039	106.94630	243.59746	1.55550	0.1970124	0.31061084	2.1593596	21	—	—
400554 2008 VA_{58}	18.0	X	356.80404	247.48340	136.98898	5.55122	0.2337428	0.30727789	2.1749461	21	—	—
400555 2008 WK_{41}	17.6	X	57.98490	61.15299	233.51842	7.33702	0.1592639	0.30069196	2.2065893	21	11 11.3	20.4
400556 2008 WU_{42}	18.3	X	280.33591	140.84207	260.57562	4.49393	0.0735498	0.29061546	2.2573050	21	8 18.0	20.8
400557 2008 WL_{45}	17.3	X	25.14943	34.67692	246.43803	5.70316	0.1102429	0.28808857	2.2704853	21	8 18.9	19.6
400558 2008 WJ_{63}	17.3	X	213.94557	349.09614	53.69040	5.67958	0.1439404	0.27691157	2.3311774	21	5 19.8	20.7
400559 2008 WN_{66}	17.3	X	300.81054	261.27744	64.20983	23.96488	0.2933380	0.28576837	2.2827584	21	4 30.6	20.5
400560 2008 WL_{69}	17.4	X	147.57832	242.27689	257.75957	6.28417	0.0715979	0.27967860	2.3157761	21	7 16.3	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400561 2008 WK_{80}	17.4	X	341.23502	35.59819	99.50197	5.32118	0.1769756	0.24122361	2.5557763	21	—	—
400562 2008 WQ_{103}	16.7	X	1.90982	331.68294	251.23279	14.10006	0.1041133	0.27055223	2.3675653	21	3 29.0	19.5
400563 2008 WX_{109}	18.1	X	139.36874	179.06027	261.01111	1.95717	0.0617930	0.26781212	2.3836870	21	4 12.5	21.2
400564 2008 WA_{118}	17.2	X	140.26079	163.46383	272.68937	5.28185	0.1392919	0.26434986	2.4044551	21	4 16.4	20.6
400565 2008 WG_{128}	16.7	X	202.84860	250.70023	113.87625	1.99736	0.1424241	0.19149729	2.9809930	21	3 29.3	21.4
400566 2008 WX_{130}	17.6	X	326.65951	57.62869	222.03201	4.12192	0.1500081	0.27759659	2.3273407	21	4 19.4	19.9
400567 2008 XR_{14}	17.9	X	55.36446	19.38815	276.73071	2.65533	0.1252195	0.30019953	2.2090016	21	11 4.1	20.4
400568 2008 XL_{43}	17.2	X	133.12785	1.22440	57.87094	4.58498	0.1464063	0.25882494	2.4385517	21	3 22.9	20.6
400569 2008 XN_{50}	17.2	X	245.43389	60.34748	334.06637	6.12419	0.1292266	0.27232964	2.3572525	21	6 12.9	20.6
400570 2008 XP_{53}	17.4	X	294.22778	114.05569	109.64922	12.52855	0.1385279	0.24307865	2.5427569	21	—	—
400571 2008 XO_{55}	17.3	X	112.34840	331.55208	89.48961	3.15070	0.2088799	0.25578375	2.4578427	21	3 9.0	20.4
400572 2008 YH_{13}	17.3	X	351.23994	38.50041	110.39606	7.29962	0.1171961	0.24064100	2.5598998	21	—	—
400573 2008 YJ_{14}	16.6	X	130.09740	264.01229	269.07779	6.39684	0.0498239	0.27754784	2.3276132	21	8 6.8	19.6
400574 2008 YE_{16}	17.6	X	263.31763	290.57198	109.46371	7.73080	0.1251410	0.28178277	2.3042332	21	7 14.6	20.6
400575 2008 YE_{19}	18.0	X	222.76779	268.80904	96.37122	2.89790	0.1518497	0.26431132	2.4046888	21	4 11.6	21.7
400576 2008 YK_{37}	18.2	X	246.44129	255.67191	116.56670	2.89276	0.2190150	0.27340271	2.3510806	21	5 8.0	21.8
400577 2008 YG_{40}	18.0	X	221.22943	248.72537	118.99745	5.61454	0.1186337	0.26522296	2.3991752	21	4 15.8	21.7
400578 2008 YP_{41}	17.3	X	259.71900	273.11132	103.28081	7.82939	0.1353440	0.28201310	2.3029784	21	6 5.4	20.3
400579 2008 YG_{55}	17.4	X	232.99823	144.59722	308.10808	6.11061	0.0645428	0.28289773	2.2981749	21	8 25.9	20.2
400580 2008 YO_{76}	17.0	X	131.02013	286.82731	140.12432	6.39480	0.0471629	0.25664857	2.4523182	21	3 17.0	20.1
400581 2008 YS_{79}	18.1	X	266.91352	244.27980	155.90667	3.56446	0.1599761	0.28082448	2.3094722	21	7 13.7	21.1
400582 2008 YA_{91}	17.3	X	200.25805	295.43506	108.04650	9.58107	0.0536881	0.26795060	2.3828657	21	5 12.1	20.7
400583 2008 YX_{102}	17.6	X	180.44921	246.62423	136.06480	2.11413	0.1926343	0.26096756	2.4251859	21	3 26.1	21.6
400584 2008 YL_{105}	17.6	X	329.57184	123.53096	126.47457	2.73380	0.1294648	0.25618340	2.4552858	21	3 20.2	20.3
400585 2008 YQ_{119}	18.0	X	199.74165	14.22958	73.93073	3.09813	0.1451808	0.27750895	2.3278307	21	7 5.4	21.3
400586 2008 YJ_{123}	18.0	X	7.61093	33.54011	139.35374	4.90544	0.0487999	0.25094173	2.4893586	21	2 10.2	20.9
400587 2008 YP_{137}	17.2	X	22.07002	133.39502	116.51212	6.68407	0.0762194	0.27091766	2.3654358	21	6 23.7	19.7
400588 2008 YG_{138}	16.7	X	321.52192	328.43394	287.34005	11.92813	0.2728801	0.25518372	2.4616940	21	2 15.4	20.0
400589 2008 YA_{153}	16.5	X	316.39336	292.57297	313.25192	13.70138	0.0900588	0.25294747	2.4761816	21	2 24.7	19.9
400590 2008 YD_{155}	16.8	X	305.35808	75.06358	58.91718	15.47191	0.2619897	0.22684424	2.6626712	21	—	—
400591 2009 AZ_{3}	14.7	X	255.59588	318.47360	83.74505	9.61255	0.2504437	0.12553290	3.9503085	21	6 23.1	20.9
400592 2009 AF_{13}	18.3	X	1.43199	222.22495	137.45085	4.72930	0.1894127	0.29653754	2.2271506	21	11 24.5	20.1
400593 2009 AT_{21}	17.4	X	23.80336	125.84742	119.09894	7.33797	0.0986847	0.26991534	2.3712882	21	6 20.9	19.8
400594 2009 AQ_{32}	17.1	X	157.06198	345.29198	124.98200	7.33691	0.0442025	0.26817681	2.3815255	21	6 16.2	20.2
400595 2009 AJ_{34}	17.2	X	184.10210	311.38078	103.37391	7.82387	0.1467483	0.26916519	2.3756919	21	5 9.2	20.9
400596 2009 BC_{2}	15.9	X	307.75779	280.55129	277.49216	26.72413	0.3673672	0.23310371	2.6147886	21	—	—
400597 2009 BJ_{13}	16.7	X	88.47867	0.21483	139.99671	10.20768	0.1570825	0.25878076	2.4388292	21	5 17.7	19.9
400598 2009 BY_{47}	17.9	X	218.04969	105.39009	313.26931	4.79574	0.0378080	0.27114975	2.3640858	21	6 22.6	21.0
400599 2009 BF_{56}	17.1	X	316.08507	74.66300	145.17384	10.10565	0.1943800	0.24085666	2.5583715	21	1 11.7	20.7
400600 2009 BT_{62}	17.2	X	349.18276	63.73786	89.27740	7.92833	0.1454781	0.24220889	2.5488405	21	—	—
400601 2009 BC_{71}	17.0	X	12.11906	239.87415	318.30315	10.43213	0.1309998	0.25282860	2.4769577	21	3 14.1	19.7
400602 2009 BL_{78}	17.4	X	300.49977	115.81048	267.10110	4.86637	0.1373619	0.28328471	2.2960815	21	8 12.5	19.8
400603 2009 BZ_{99}	16.2	X	206.51176	248.80543	357.85440	15.33563	0.2423305	0.22008908	2.7168796	21	—	—
400604 2009 BJ_{120}	17.0	X	269.05922	120.66536	126.45958	13.19654	0.2171102	0.23919574	2.5702010	21	—	—
400605 2009 BN_{121}	17.4	X	35.67221	253.60883	317.75547	5.79080	0.0691270	0.25956085	2.4339403	21	5 17.5	20.1
400606 2009 BR_{146}	17.7	X	149.76593	266.91344	189.34813	3.58109	0.1696646	0.26194504	2.4191489	21	5 28.8	21.3
400607 2009 BL_{148}	17.2	X	144.00914	168.21018	308.36744	6.48710	0.0822514	0.26379250	2.4078407	21	6 10.9	20.6
400608 2009 BL_{150}	16.5	X	186.72006	50.77753	172.41029	4.10775	0.0428714	0.21416166	2.7667817	21	12 13.8	20.4
400609 2009 BH_{171}	16.5	X	220.84434	299.05231	328.03564	13.01658	0.1669856	0.23041494	2.6350911	21	—	—
400610 2009 BL_{171}	17.1	X	216.42707	207.17346	10.89184	2.68388	0.1221837	0.21956782	2.7211778	21	—	—
400611 2009 BP_{184}	16.0	X	205.89380	314.62064	265.04130	9.75392	0.1280633	0.22060670	2.7126281	21	12 22.9	19.8
400612 2009 BS_{185}	16.4	X	171.76359	276.92503	343.47238	14.84943	0.1354712	0.21418123	2.7666132	21	—	—
400613 2009 CK_{1}	15.4	X	26.62634	189.88065	116.66884	25.67200	0.2174797	0.18117739	3.0931434	21	10 15.9	19.7
400614 2009 CJ_{3}	17.2	X	237.07416	153.35935	109.38759	2.22657	0.1290522	0.23610668	2.5925703	21	—	—
400615 2009 CM_{8}	17.5	X	27.34482	294.53412	271.70123	3.76151	0.0563601	0.26097910	2.4251144	21	4 25.5	20.4
400616 2009 CE_{14}	16.9	X	340.35280	97.63891	99.67448	6.42741	0.1650528	0.24445070	2.5332333	21	1 19.5	19.8
400617 2009 CH_{20}	17.6	X	288.66720	36.96699	278.24221	3.64037	0.1149642	0.26230258	2.4169500	21	4 19.8	20.7
400618 2009 CA_{45}	17.2	X	318.10976	51.46229	113.05272	13.00704	0.1372723	0.23324050	2.6137662	21	—	—
400619 2009 CE_{57}	17.0	X	303.86719	49.82420	105.43804	5.05300	0.1735697	0.22836164	2.6508630	21	—	—
400620 2009 CZ_{60}	17.1	X	205.90915	304.30415	107.65694	5.96273	0.0936476	0.26257915	2.4152526	21	5 27.3	20.5
400621 2009 DK_{18}	17.0	X	242.22883	109.10398	158.81210	13.16697	0.2496381	0.22964157	2.6410039	21	—	—
400622 2009 DD_{32}	16.8	X	101.79227	253.31488	122.49947	4.06395	0.1154010	0.22666959	2.6640388	21	—	—
400623 2009 DG_{43}	16.6	X	65.28087	346.88576	90.96469	6.15986	0.1629338	0.23854283	2.5748888	21	1 11.0	19.0
400624 2009 DL_{59}	16.8	X	261.09534	221.16032	41.62510	3.30113	0.1486091	0.23485211	2.6017950	21	1 14.7	20.9
400625 2009 DG_{64}	17.1	X	282.47841	265.73333	49.92357	6.37554	0.0787958	0.25276354	2.4773827	21	4 21.6	20.3
400626 2009 DX_{74}	17.5	X	6.74481	6.23579	166.10577	4.25563	0.1463069	0.24466013	2.5317875	21	1 29.9	20.1
400627 2009 DX_{84}	17.3	X	345.00509	73.32714	128.56175	6.37126	0.1815411	0.24076961	2.5589881	21	1 30.8	20.1
400628 2009 DM_{95}	17.1	X	8.02842	345.65228	226.67087	2.49188	0.1346313	0.25318386	2.4746401	21	3 31.1	19.4
400629 2009 DO_{106}	16.8	X	229.91355	216.32272	352.04499	13.21889	0.1484684	0.21891100	2.7266182	21	—	—
400630 2009 DO_{118}	16.7	X	210.41803	264.86919	341.16880	9.88635	0.1287456	0.22098982	2.7094920	21	—	—
400631 2009 DR_{125}	17.6	X	221.21546	26.89644	195.80636	2.07261	0.1209398	0.21701847	2.7424470	21	—	—
400632 2009 DZ_{129}	16.8	X	275.32072	12.49662	182.22438	14.27028	0.0891513	0.22341297	2.6898649	21	—	—
400633 2009 DD_{131}	17.0	X	340.25451	57.71970	164.57691	6.59105	0.1263227	0.24720632	2.5143728	21	2 26.9	19.7
400634 2009 DM_{132}	16.7	X	85.05906	51.25391	78.57112	7.34476	0.1006377	0.25357396	2.4721014	21	4 18.9	19.7
400635 2009 DT_{136}	16.9	X	307.22412	72.89558	117.20689	12.43937	0.1926998	0.23115144	2.6294907	21	—	—
400636 2009 ES_{2}	16.5	X	332.76408	276.49562	269.37800	12.43455	0.1127355	0.23239313	2.6201160	21	1 3.4	19.9
400637 2009 EF_{12}	16.6	X	213.85035	45.15880	147.61383	9.34464	0.1581954	0.21005906	2.8026903	21	11 26.3	21.0
400638 2009 EL_{12}	16.7	X	278.40815	147.64278	110.66939	9.88231	0.1318836	0.23832235	2.5764766	21	1 27.3	20.4
400639 2009 EY_{17}	17.0	X	267.10550	60.44056	163.57101	15.08373	0.0429778	0.23117847	2.6292858	21	—	—
400640 2009 EJ_{20}	16.8	X	272.38414	349.48585	159.04842	11.89109	0.1241714	0.21600304	2.7510352	21	12 17.1	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400641 2009 FC_{23}	16.8	X	278.21360	120.77613	163.51973	15.32478	0.1992422	0.23972476	2.5664184	21	2 19.4	20.8
400642 2009 FF_{23}	16.5	X	311.84059	216.09100	12.82340	10.96099	0.0141031	0.23755014	2.5820572	21	2 19.1	20.0
400643 2009 FG_{27}	16.6	X	321.36076	144.52999	38.87771	13.54538	0.1088964	0.23039840	2.6352171	21	—	—
400644 2009 FA_{50}	16.9	X	336.25062	347.26031	130.80573	8.70878	0.2183395	0.22476273	2.6790852	21	—	—
400645 2009 FC_{54}	16.8	X	189.36998	229.55187	80.20107	6.12885	0.1567800	0.22504142	2.6768728	21	1 7.4	21.0
400646 2009 FE_{63}	17.3	X	305.38980	133.36547	91.26609	3.23673	0.0966780	0.23347337	2.6120279	21	1 21.0	20.8
400647 2009 FC_{68}	17.0	X	199.41495	346.69909	180.83987	1.75514	0.1015950	0.20109140	2.8854068	21	10 14.2	21.2
400648 2009 FM_{68}	17.3	X	297.23811	116.50525	146.73508	5.20164	0.0656463	0.24363836	2.5388611	21	3 4.3	20.7
400649 2009 FV_{72}	16.6	X	192.57332	121.57501	183.97929	13.90034	0.1195877	0.22397783	2.6853405	21	1 2.3	21.0
400650 2009 HW_{16}	17.3	X	305.03686	322.49094	187.61967	13.09983	0.1972243	0.22243234	2.6977649	21	—	—
400651 2009 HT_{18}	16.6	X	197.04035	240.86683	95.26057	7.50443	0.0960296	0.22789337	2.6544930	21	2 14.2	20.7
400652 2009 HZ_{24}	16.6	X	230.97674	201.17897	47.90337	10.28522	0.1507819	0.21734402	2.7397078	21	—	—
400653 2009 HU_{25}	16.9	X	333.77817	273.39733	206.07695	8.04240	0.1043562	0.21886746	2.7269798	21	—	—
400654 2009 HZ_{29}	16.9	X	75.39062	263.19713	122.74839	7.21184	0.0507661	0.22083543	2.7107547	21	—	—
400655 2009 HM_{38}	16.5	X	306.49344	307.60124	190.50732	18.00299	0.1704071	0.21589235	2.7519754	21	—	—
400656 2009 HG_{40}	16.8	X	169.78943	218.45242	91.72851	6.21947	0.1430096	0.22173832	2.7033911	21	—	—
400657 2009 HL_{49}	16.7	X	147.06673	269.30250	111.06830	13.25480	0.1671337	0.22715854	2.6602145	21	2 24.6	20.9
400658 2009 HC_{55}	17.3	X	188.10373	141.46883	96.38556	2.97327	0.1874280	0.21037128	2.7999165	21	12 20.9	21.9
400659 2009 HO_{73}	16.3	X	288.70936	298.38761	280.37085	11.04400	0.2637444	0.22915098	2.6447720	21	—	—
400660 2009 HP_{83}	16.7	X	304.90305	50.81687	164.95682	5.47877	0.0539536	0.22845993	2.6501026	21	1 15.1	20.4
400661 2009 HQ_{88}	16.9	X	224.12449	58.84040	224.42814	7.55650	0.2247807	0.22167965	2.7038681	21	1 5.4	21.8
400662 2009 HN_{94}	17.2	X	199.02929	60.55280	237.22169	5.45532	0.0884424	0.21817919	2.7327118	21	—	—
400663 2009 HB_{96}	17.2	X	251.50924	68.11087	155.07805	8.95047	0.1398664	0.21718534	2.7410422	21	—	—
400664 2009 HV_{99}	16.8	X	175.75153	59.02408	217.66839	18.36498	0.0949964	0.21201296	2.7854441	21	—	—
400665 2009 HW_{100}	17.0	X	106.37069	202.37568	216.57231	5.40977	0.0359198	0.22875328	2.6478365	21	2 1.6	20.6
400666 2009 HH_{104}	16.5	X	108.47550	128.29873	131.58197	10.76255	0.2139503	0.19142673	2.9817255	21	11 13.9	21.6
400667 2009 JS_{2}	16.5	X	295.31156	152.97417	76.11189	14.26555	0.1341584	0.23056988	2.6339104	21	1 10.6	20.4
400668 2009 KG_{20}	18.1	X	238.80214	68.75517	241.88870	19.45434	0.0621646	0.39364345	1.8438858	21	1 19.7	20.6
400669 2009 LO_{1}	16.8	X	230.88884	41.04834	196.82067	14.12214	0.2618308	0.21368283	2.7709135	21	—	—
400670 2009 MD_{8}	17.3	X	40.95642	186.29781	261.06771	18.00685	0.0844902	0.36939402	1.9237242	21	—	—
400671 2009 MR_{9}	16.6	X	194.86756	152.69310	108.38035	8.91494	0.2155682	0.20434857	2.8546639	21	—	—
400672 2009 OO_{3}	15.8	X	170.92508	162.37762	149.90621	18.23348	0.1682766	0.20430945	2.8550282	21	—	—
400673 Vitapolunina	16.6	X	106.31484	96.59740	226.41445	6.25452	0.2628819	0.18712383	3.0272618	21	—	—
400674 2009 OA_{15}	15.6	X	55.21921	204.33249	150.66287	20.80394	0.3153550	0.18077153	3.0977714	21	—	—
400675 2009 OS_{19}	15.7	X	47.12828	213.52028	121.73368	19.16532	0.2668204	0.17752717	3.1353991	21	12 16.4	20.4
400676 2009 OA_{25}	15.8	X	29.18259	224.58680	125.91466	15.71249	0.2858184	0.17508103	3.1645356	21	12 14.2	20.0
400677 2009 PF	15.9	X	91.26533	198.44834	142.59365	21.25873	0.3293229	0.18469519	3.0537418	21	—	—
400678 2009 PG_{5}	15.6	X	50.90031	186.71591	169.88161	10.78583	0.1280284	0.18088643	3.0964594	21	12 25.4	20.1
400679 2009 PZ_{7}	15.6	X	278.07240	177.48194	314.06654	15.30731	0.0463440	0.18388068	3.0627531	21	12 4.6	20.0
400680 2009 PL_{9}	17.6	X	346.05200	64.16911	162.05336	21.06088	0.0329992	0.38543422	1.8699753	21	2 28.7	18.9
400681 2009 PE_{12}	15.8	X	34.13105	33.37177	338.18876	9.88821	0.1544657	0.17948185	3.1125932	21	12 26.9	20.1
400682 2009 PX_{15}	16.1	X	70.43293	333.26803	347.96550	8.24864	0.0757614	0.17523088	3.1627312	21	11 26.1	20.7
400683 2009 PK_{20}	16.4	X	81.86838	326.89502	352.20410	4.71666	0.1353984	0.17977495	3.1092091	21	12 15.7	21.1
400684 2009 QN_{4}	16.4	X	76.27159	252.17597	147.26858	15.58629	0.4958444	0.18875547	3.0097911	21	2 16.9	19.8
400685 2009 QN_{15}	16.2	X	96.36701	282.98246	357.23197	10.26332	0.1619792	0.17521757	3.1628914	21	11 13.9	21.2
400686 2009 QR_{30}	15.7	X	7.83702	86.33287	304.57309	14.74651	0.2335966	0.17291433	3.1909161	21	12 21.4	19.5
400687 2009 QB_{32}	15.5	X	49.17527	218.90643	149.96870	11.70161	0.0892678	0.18119554	3.0929369	21	—	—
400688 2009 QS_{34}	15.3	X	100.17662	17.52600	305.87715	15.61819	0.2373457	0.18439466	3.0570590	21	—	—
400689 2009 QD_{37}	15.5	X	80.16299	55.70259	280.54876	25.87347	0.1627802	0.17901841	3.1179627	21	—	—
400690 2009 QM_{43}	16.8	X	76.83834	313.70878	33.55669	2.05700	0.2818673	0.18333550	3.0688218	21	—	—
400691 2009 QV_{48}	16.0	X	63.50508	191.31838	167.59210	16.31956	0.1249660	0.18312578	3.0711644	21	—	—
400692 2009 QW_{55}	16.8	X	105.57542	79.99998	226.73141	0.91900	0.1573549	0.18244541	3.0787949	21	12 26.6	21.7
400693 2009 QC_{58}	16.1	X	96.20270	326.77509	327.52926	8.12913	0.0562022	0.17556175	3.1587563	21	11 20.8	20.9
400694 2009 QX_{58}	16.2	X	55.40959	148.66217	182.60735	17.79333	0.2332353	0.17759291	3.1346253	21	12 14.6	21.1
400695 2009 QO_{59}	16.0	X	74.94395	73.93872	226.75737	15.19119	0.2340910	0.17774220	3.1328698	21	11 28.5	20.9
400696 2009 QH_{63}	15.9	X	58.62484	93.02993	293.60979	14.97443	0.2597534	0.18301246	3.0724320	21	—	—
400697 2009 RV_{4}	15.9	X	42.19704	35.21083	330.59396	10.67531	0.0633203	0.18092874	3.0959766	21	12 16.9	20.3
400698 2009 RG_{7}	15.8	X	41.95609	45.57268	325.47939	7.61212	0.2827880	0.17705388	3.1409842	21	—	—
400699 2009 RB_{8}	16.2	X	323.91455	218.04780	217.30389	3.97574	0.0211975	0.17394255	3.1783288	21	11 26.6	20.5
400700 2009 RJ_{10}	16.9	X	48.52656	43.00322	325.63192	0.13464	0.1789697	0.17849096	3.1241022	21	—	—
400701 2009 RN_{14}	16.0	X	346.17669	220.63185	191.13798	14.83280	0.1483936	0.17087573	3.2162450	21	11 30.9	20.0
400702 2009 RY_{14}	16.0	X	343.09300	240.15617	190.94811	12.53343	0.1465787	0.17404666	3.1770613	21	12 19.6	20.0
400703 2009 RM_{17}	16.1	X	337.84014	245.47008	165.82358	4.59154	0.1182177	0.16925786	3.2367078	21	11 15.3	20.0
400704 2009 RO_{32}	15.4	X	347.26084	186.49005	246.01560	11.38550	0.2338242	0.17644627	3.1481910	21	—	—
400705 2009 RR_{32}	15.7	X	35.38182	82.10236	310.84538	15.24619	0.1198915	0.18125263	3.0922873	21	—	—
400706 2009 RB_{34}	16.4	X	38.21817	338.61436	21.20252	4.24672	0.1215511	0.17198246	3.2024322	21	12 10.5	20.8
400707 2009 RC_{39}	15.7	X	303.46864	242.91723	244.29159	8.51231	0.0567181	0.18014284	3.1049746	21	12 31.2	19.9
400708 2009 RY_{52}	16.2	X	75.02936	217.44883	93.95597	2.14683	0.1674253	0.17242443	3.1969574	21	12 2.6	20.8
400709 2009 RE_{64}	15.1	X	120.37050	336.54452	304.74583	11.51257	0.1170427	0.18143424	3.0902235	21	12 8.0	20.1
400710 2009 RE_{71}	16.4	X	345.88307	304.44249	117.78859	2.38365	0.1647849	0.17380623	3.1799905	21	12 14.2	19.9
400711 2009 RV_{72}	15.4	X	26.63171	119.19175	237.08866	25.23478	0.2871188	0.17323966	3.1869201	21	12 13.5	19.5
400712 2009 SU_{1}	16.3	X	71.19243	148.18918	189.00355	15.09385	0.1079560	0.17948695	3.1125342	21	12 22.3	21.1
400713 2009 SX_{2}	16.0	X	115.09638	72.65634	202.95315	11.14226	0.0960260	0.17641520	3.1485605	21	11 25.7	20.9
400714 2009 SG_{10}	15.9	X	293.42377	258.08900	201.00819	8.89522	0.0485301	0.17511523	3.1641236	21	11 15.2	20.2
400715 2009 SM_{15}	16.5	X	168.82812	28.03534	327.75763	5.44733	0.0994854	0.20576034	2.8415913	21	2 10.8	20.8
400716 2009 SE_{16}	15.3	X	23.49787	260.41148	149.54414	24.89697	0.0881737	0.17518106	3.1633308	21	—	—
400717 2009 SN_{53}	16.2	X	98.05699	35.15478	269.61590	3.47104	0.1357295	0.17842733	3.1248449	21	12 15.2	21.0
400718 2009 SZ_{62}	16.1	X	299.57322	115.29461	347.47479	8.49859	0.0457792	0.17813207	3.1282969	21	11 25.3	20.4
400719 2009 SD_{63}	16.8	X	135.62806	120.60670	181.55991	2.77990	0.1595314	0.18991856	2.9974903	21	—	—
400720 2009 SV_{80}	16.3	X	357.18737	75.00671	347.25485	9.02918	0.0876450	0.18095024	3.0957314	21	12 29.5	20.4

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400721 2009 SJ_{89}	16.2	X	29.87078	144.30402	247.25424	4.80161	0.1280374	0.17925931	3.1151686	21	—	—
400722 2009 SY_{96}	15.5	X	39.22052	82.42145	272.45121	8.04704	0.0874080	0.17507166	3.1646486	21	12 1.8	19.9
400723 2009 SF_{106}	15.7	X	25.94650	62.39039	328.04866	9.55782	0.0584518	0.18037156	3.1023491	21	12 26.2	20.0
400724 2009 SU_{155}	16.4	X	58.42934	165.43435	197.15616	0.72188	0.1901368	0.17924725	3.1153084	21	—	—
400725 2009 SZ_{164}	15.9	X	69.67645	314.56778	21.82809	12.37101	0.2216979	0.17555406	3.1588485	21	—	—
400726 2009 SD_{172}	15.3	X	71.50156	223.89294	90.38655	28.18264	0.2197706	0.17260682	3.1947049	21	12 10.7	20.3
400727 2009 SP_{179}	15.9	X	31.95504	218.77245	158.69346	15.83461	0.0882182	0.17864335	3.1223253	21	12 21.9	20.4
400728 2009 SZ_{205}	16.5	X	36.31480	332.29571	38.15847	1.07063	0.1837080	0.17350237	3.1837023	21	12 30.4	20.8
400729 2009 SJ_{229}	15.8	X	19.51634	38.00459	351.29038	14.17301	0.2720256	0.17315506	3.1879580	21	—	—
400730 2009 SG_{268}	16.8	X	81.17150	24.07242	339.16600	1.40900	0.1205956	0.18504997	3.0498376	21	—	—
400731 2009 SO_{306}	16.0	X	4.08918	235.46468	182.23453	15.24422	0.0750533	0.18163944	3.0878956	21	12 30.8	20.4
400732 2009 SZ_{331}	16.0	X	82.97248	293.04337	14.99178	10.50661	0.1576017	0.17822907	3.1271619	21	12 4.5	20.9
400733 2009 SK_{344}	16.0	X	41.04328	105.24180	300.02368	14.89803	0.2121402	0.18104867	3.0946093	21	—	—
400734 2009 SL_{344}	16.4	X	59.78865	87.05643	311.46285	13.89110	0.2801905	0.18373121	3.0644139	21	—	—
400735 2009 SD_{347}	16.6	X	67.60717	252.25398	112.31452	5.98467	0.2330150	0.18132985	3.0914093	21	—	—
400736 2009 SX_{358}	16.6	X	83.00724	104.44126	237.19298	7.99306	0.2950024	0.18238102	3.0795195	21	—	—
400737 2009 TH_{45}	16.1	X	57.72779	44.67484	307.11400	10.29461	0.1639449	0.17843039	3.1248092	21	—	—
400738 2009 TP_{45}	16.4	X	19.65467	221.59404	175.74833	15.36841	0.2233248	0.17426164	3.1744478	21	—	—
400739 2009 UK_{3}	16.1	X	53.32006	142.79021	230.98635	15.93772	0.1797173	0.18018676	3.1044700	21	—	—
400740 2009 UY_{37}	15.5	X	39.83745	316.96730	59.12275	10.71129	0.2041443	0.17296099	3.1903422	21	—	—
400741 2009 UP_{61}	16.1	X	3.85851	249.54235	119.34877	3.75204	0.0318662	0.16753885	3.2588099	21	10 28.4	20.5
400742 2009 UX_{90}	15.5	X	57.62041	76.14105	252.13844	9.81535	0.1208134	0.17282572	3.1920068	21	11 27.1	20.0
400743 2009 UZ_{121}	16.0	X	95.87728	25.29788	324.76782	8.34995	0.1383558	0.18362569	3.0655878	21	—	—
400744 2009 UL_{128}	15.8	X	359.55890	133.84380	282.93983	13.14413	0.2647003	0.17266111	3.1940352	21	—	—
400745 2009 UV_{130}	16.4	X	136.98297	64.06973	298.58106	7.03821	0.2088124	0.19590419	2.9361184	21	1 29.4	20.9
400746 2009 UG_{139}	15.6	X	55.45489	98.94935	258.71446	10.87267	0.1423762	0.17409584	3.1764629	21	12 31.8	20.2
400747 2009 UK_{151}	15.3	X	17.42179	116.11406	272.12283	15.59367	0.0783695	0.17179713	3.2047349	21	12 12.3	19.5
400748 2009 UP_{153}	16.7	X	78.16862	88.61790	234.24271	8.60081	0.2270867	0.17512676	3.1639847	21	12 24.9	21.7
400749 2009 VY_{26}	16.5	X	47.25397	102.93393	260.60017	5.68472	0.2078046	0.17277286	3.1926578	21	—	—
400750 2009 VR_{63}	15.6	X	334.14860	147.81963	239.83503	10.31445	0.1199194	0.15526255	3.4284006	21	10 2.9	20.1
400751 2009 VS_{106}	15.8	X	17.87529	65.85893	351.44811	9.94612	0.0722041	0.17516004	3.1635839	21	—	—
400752 2009 WE_{218}	16.6	X	103.72486	116.05274	174.59786	9.67855	0.0780887	0.17523207	3.1627170	21	11 30.4	21.5
400753 2009 WR_{259}	15.5	X	29.06434	283.88397	109.67235	27.09283	0.2389529	0.17239935	3.1972674	21	—	—
400754 2009 WN_{263}	17.4	X	57.30265	15.28174	123.60323	5.49721	0.1639152	0.27629007	2.3346720	21	3 19.5	19.3
400755 2009 YF_{16}	17.5	X	355.92669	324.73952	37.25146	3.90886	0.0916396	0.31826559	2.1245955	21	11 6.6	19.2
400756 2010 AR_{121}	15.3	X	93.25226	12.22938	278.62036	13.59612	0.0397579	0.16833017	3.2485887	21	11 9.9	20.2
400757 2010 BK_{96}	16.7	X	66.82588	118.12891	232.26871	10.07160	0.2290575	0.17655356	3.1469154	21	—	—
400758 2010 CW_{4}	17.9	X	48.68871	144.19855	36.02163	3.15762	0.1566515	0.27586195	2.3370868	21	5 3.0	19.9
400759 2010 CG_{43}	17.6	X	91.05563	19.90748	141.21310	5.36466	0.1617509	0.28318614	2.2966142	21	6 17.0	20.4
400760 2010 CD_{70}	17.6	X	12.69577	93.89475	122.80915	7.19473	0.1031651	0.28098038	2.3086179	21	4 18.2	19.9
400761 2010 CV_{76}	17.9	X	60.67359	255.71436	247.68114	1.65261	0.1654758	0.27099616	2.3649790	21	3 31.2	19.9
400762 2010 CH_{89}	17.3	X	31.06432	299.77937	289.00404	4.41236	0.1082224	0.28442328	2.2899498	21	6 8.8	19.3
400763 2010 CH_{104}	17.7	X	57.12337	103.51659	144.27709	3.81986	0.1256518	0.28946573	2.2632782	21	8 28.7	20.1
400764 2010 CH_{114}	16.8	X	249.90852	182.31546	106.90080	3.50279	0.1806495	0.26360202	2.4090005	21	1 30.0	20.6
400765 2010 CS_{115}	18.2	X	330.51456	175.85853	106.51769	3.21536	0.0637517	0.28343576	2.2952656	21	5 14.5	20.7
400766 2010 CO_{117}	16.4	X	173.97498	66.98551	294.35790	14.05173	0.1126851	0.18810884	3.0166846	21	2 20.2	21.3
400767 2010 CC_{148}	17.8	X	134.45563	10.11998	163.85934	4.35342	0.1639791	0.29173615	2.2515204	21	8 24.2	21.0
400768 2010 CV_{152}	18.2	X	10.80695	167.19805	57.22302	1.95269	0.1390859	0.27406990	2.3472634	21	4 22.5	20.1
400769 2010 DK_{3}	18.4	X	1.30519	71.20651	166.28113	2.28309	0.1599329	0.27514608	2.3411388	21	4 21.8	20.2
400770 2010 DZ_{8}	17.9	X	313.55538	13.12788	188.14658	1.87483	0.1520523	0.25506916	2.4624311	21	—	—
400771 2010 DC_{16}	16.4	X	278.39707	103.80429	121.59385	14.38103	0.1403408	0.24292900	2.5438010	21	—	—
400772 2010 DF_{49}	17.5	X	78.93051	291.50775	154.22430	23.93632	0.1117518	0.35179420	1.9873618	21	1 6.2	19.5
400773 2010 DH_{52}	16.9	X	255.89360	107.00527	134.63229	11.89707	0.1534102	0.23962861	2.5671048	21	—	—
400774 2010 EG_{14}	16.6	X	308.38414	92.31632	119.78969	15.97337	0.2048062	0.24647304	2.5193573	21	—	—
400775 2010 EK_{21}	17.8	X	64.09599	48.97603	105.00751	3.21706	0.1477771	0.27364564	2.3496889	21	4 22.9	20.1
400776 2010 EQ_{31}	17.9	X	349.25688	139.62465	150.35115	1.75362	0.2177876	0.28258272	2.2998825	21	6 15.7	19.0
400777 2010 EF_{32}	17.8	X	53.13826	141.71338	23.30086	2.55286	0.0838418	0.27285208	2.3542425	21	4 9.9	20.1
400778 2010 EO_{42}	17.6	X	87.71041	190.06693	15.29261	4.33683	0.1626675	0.28939380	2.2636532	21	8 17.3	20.4
400779 2010 EQ_{70}	17.9	X	9.48850	284.03984	349.15402	3.66488	0.1589286	0.28011387	2.3133764	21	7 12.1	19.7
400780 2010 ER_{73}	17.2	X	301.88076	277.91528	14.75803	6.69141	0.1390822	0.26855868	2.3792674	21	4 3.7	20.2
400781 2010 EF_{85}	17.9	X	90.95277	196.01343	4.61883	4.19783	0.1106975	0.28710727	2.2756559	21	8 6.7	20.7
400782 2010 ES_{99}	17.1	X	346.62565	133.12270	98.91891	3.34483	0.1800083	0.26478111	2.4018436	21	3 14.2	19.4
400783 2010 EZ_{108}	17.1	X	6.47411	153.16700	64.04933	3.09622	0.1698995	0.26743590	2.3859220	21	4 1.5	19.0
400784 2010 EC_{125}	17.3	X	112.15677	23.75726	112.47098	7.71184	0.0755541	0.27998923	2.3140629	21	5 28.9	20.2
400785 2010 EY_{128}	17.5	X	357.77405	91.49219	199.71688	5.92950	0.1400263	0.28013965	2.3132345	21	7 12.7	19.5
400786 2010 ES_{133}	17.7	X	1.07941	340.34539	302.95890	3.26174	0.1181489	0.28017602	2.3130343	21	7 8.2	19.5
400787 2010 EA_{134}	17.6	X	345.03540	32.07391	196.02341	1.95848	0.1697147	0.26558616	2.3969874	21	3 4.3	20.1
400788 2010 EO_{134}	17.7	X	338.14148	95.76973	203.90735	2.30222	0.2388183	0.27587738	2.3369997	21	5 31.3	19.3
400789 2010 EK_{135}	17.6	X	53.10129	257.03701	346.30754	6.70377	0.0741874	0.28537839	2.2848376	21	8 7.9	20.1
400790 2010 EQ_{135}	18.0	X	2.19336	165.68332	110.34163	2.22588	0.1736175	0.27672477	2.3322263	21	6 28.2	19.5
400791 2010 ER_{136}	18.3	X	43.18578	171.87454	351.95972	2.11549	0.1458144	0.26890499	2.3772242	21	3 25.9	20.4
400792 2010 FS_{6}	17.7	X	72.71632	56.90144	177.61945	5.77199	0.1585950	0.29199457	2.2501918	21	9 5.4	20.3
400793 2010 FF_{16}	18.2	X	306.52002	36.77509	357.56711	5.52284	0.0709216	0.29902465	2.2147840	21	9 23.6	20.1
400794 2010 FZ_{24}	17.9	X	52.69006	142.70397	66.70404	4.00561	0.1607317	0.27807039	2.3246963	21	6 28.1	20.0
400795 2010 FN_{57}	17.7	X	30.49072	204.60149	17.13154	6.61272	0.1310063	0.27385147	2.3485113	21	5 28.4	19.8
400796 Douglass	16.4	X	185.44968	28.53360	287.70347	15.49733	0.2643222	0.22923946	2.6440914	21	1 15.2	21.1
400797 2010 FP_{87}	17.7	X	21.90549	98.40988	129.38633	3.02758	0.1542115	0.27226757	2.3576107	21	5 24.0	19.6
400798 2010 FQ_{92}	16.9	X	343.62921	85.45053	152.03966	10.99653	0.1989371	0.26818791	2.3814598	21	3 12.6	19.2
400799 2010 GW_{15}	16.6	X	320.35558	9.33520	300.02165	16.59251	0.2532160	0.26159104	2.4213309	21	4 29.6	19.7
400800 2010 GT_{28}	17.2	X	38.44057	162.23692	59.19517	3.97224	0.1633733	0.27569837	2.3380112	21	6 19.3	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400801 2010 GJ_{66}	17.4	X	339.48019	186.87700	92.37332	6.73112	0.2163644	0.27156565	2.3616715	21	5 6.3	19.4
400802 2010 GM_{97}	17.9	X	44.53065	238.47797	26.46654	3.30539	0.0895022	0.28667266	2.2779553	21	8 29.2	20.3
400803 2010 GB_{98}	18.0	X	33.58845	38.86622	216.73907	1.78042	0.1180582	0.27994472	2.3143082	21	7 28.1	20.1
400804 2010 GD_{108}	18.0	X	61.60622	358.10386	202.24557	2.32987	0.1441718	0.27588960	2.3369307	21	6 26.7	20.3
400805 2010 GD_{110}	17.8	X	20.20185	17.93127	172.87054	4.92673	0.1339353	0.26531574	2.3986159	21	3 21.5	19.8
400806 2010 GC_{115}	17.9	X	5.89755	271.18020	17.24587	9.51638	0.1211506	0.28327858	2.2961146	21	7 31.6	20.1
400807 2010 GN_{115}	17.5	X	16.28477	156.98132	124.51596	7.00509	0.1444664	0.27989955	2.3145572	21	8 9.4	19.4
400808 2010 GB_{136}	17.0	X	350.70160	64.55723	185.97788	6.75091	0.1010792	0.26918595	2.3755698	21	4 28.4	19.3
400809 2010 GL_{143}	17.4	X	277.24576	268.14506	36.46061	5.64720	0.1524327	0.26207230	2.4183657	21	3 21.3	20.8
400810 2010 GV_{143}	17.5	X	342.47007	98.01715	180.56373	10.99437	0.2656561	0.26864450	2.3787606	21	5 3.8	19.4
400811 Gillesfontaine	16.9	X	305.93734	201.45943	121.45518	14.75377	0.2663070	0.25902678	2.4372847	21	5 8.6	20.2
400812 2010 GH_{160}	16.7	X	57.89850	6.47181	240.20759	23.70561	0.1166930	0.28450789	2.2894957	21	8 13.0	20.1
400813 2010 GX_{161}	17.9	X	334.71735	135.42503	138.45933	5.28056	0.1784288	0.26645823	2.3917546	21	4 25.0	20.3
400814 2010 HP_{77}	17.8	X	11.25324	346.86851	190.94216	8.66933	0.2087603	0.26072923	2.4266636	21	2 1.4	20.1
400815 2010 HU_{79}	18.0	X	318.91074	138.39344	94.10395	1.93444	0.1546903	0.25661766	2.4525151	21	2 4.2	21.2
400816 2010 HQ_{101}	17.4	X	221.30299	262.15096	52.13179	2.09108	0.1285267	0.23589735	2.5941037	21	2 9.2	21.4
400817 2010 HO_{108}	18.0	X	340.21853	260.46639	7.27665	1.27991	0.1527322	0.26894790	2.3769713	21	4 26.8	20.0
400818 2010 JV_{29}	17.4	X	19.80809	17.17765	212.28124	9.23581	0.1465503	0.26957879	2.3732614	21	5 21.9	19.4
400819 2010 JQ_{33}	17.8	X	1.60530	150.81275	97.68732	6.21198	0.1851759	0.26983636	2.3717509	21	5 11.4	19.6
400820 2010 JS_{40}	16.6	X	300.62661	65.41043	76.89640	14.72890	0.0868003	0.23236991	2.6202906	21	—	—
400821 2010 JU_{40}	17.7	X	51.00175	141.17197	55.31852	2.05297	0.1285503	0.27146526	2.3622537	21	5 30.1	19.9
400822 2010 JD_{85}	17.8	X	328.88875	34.17148	240.93034	4.33855	0.2179330	0.26487596	2.4012701	21	4 4.9	20.5
400823 2010 JN_{85}	17.5	X	325.50230	191.14147	63.52263	5.85278	0.1681829	0.26008869	2.4306461	21	3 15.7	20.4
400824 2010 JM_{109}	16.4	X	277.70246	32.45487	230.33687	14.03330	0.1839443	0.23983776	2.5656122	21	1 21.8	20.7
400825 2010 JP_{110}	17.4	X	263.38216	169.36026	133.63634	10.84754	0.1781301	0.25444497	2.4664565	21	3 3.2	21.2
400826 2010 JU_{153}	17.4	X	325.32643	157.93480	127.70198	7.26259	0.2129904	0.26608164	2.3940108	21	4 20.9	20.0
400827 2010 JJ_{157}	17.4	X	330.92862	242.94272	75.02488	7.47673	0.1407075	0.27868950	2.3212521	21	6 29.6	19.4
400828 2010 JV_{167}	17.3	X	37.77828	23.80874	123.83268	8.33424	0.0496938	0.25329373	2.4739244	21	2 22.2	20.2
400829 2010 KB_{32}	17.5	X	248.46615	55.99313	283.06240	10.42471	0.2916737	0.24396688	2.5365814	21	3 19.9	22.2
400830 2010 KU_{36}	17.6	X	355.85259	15.17673	248.74370	2.95852	0.1850122	0.26892681	2.3770956	21	5 21.2	19.3
400831 2010 KT_{78}	16.0	X	63.93716	56.18461	276.87230	10.88646	0.0611333	0.19733790	2.9218800	21	12 6.5	20.1
400832 2010 KT_{79}	16.9	X	188.64043	73.58296	251.41776	10.29308	0.3170058	0.22638618	2.6662617	21	1 27.2	21.9
400833 2010 KR_{103}	16.7	X	194.21737	145.68979	170.56208	13.88029	0.2679429	0.22660052	2.6645801	21	1 20.9	21.6
400834 2010 KO_{117}	17.5	X	6.84686	31.38850	203.19822	4.71895	0.1834873	0.26637166	2.3922728	21	4 29.3	19.1
400835 2010 KY_{120}	16.3	X	244.72543	61.52648	257.79486	13.49180	0.1815331	0.23918315	2.5702912	21	2 26.6	20.7
400836 2010 LB_{38}	15.7	X	50.44915	111.39753	251.01258	9.54370	0.1215631	0.19812627	2.9141238	21	—	—
400837 2010 LP_{41}	16.3	X	197.78672	20.94984	284.74021	13.63006	0.1569162	0.22413397	2.6840932	21	1 9.6	20.6
400838 2010 LS_{51}	16.6	X	202.05676	50.12353	279.38714	12.01134	0.2833300	0.22965629	2.6408911	21	2 8.2	21.5
400839 2010 LE_{60}	16.5	X	124.37445	131.62994	201.76206	12.96056	0.2458831	0.21071316	2.7968872	21	—	—
400840 2010 LH_{67}	17.1	X	349.93890	200.46777	82.61683	6.98803	0.1213276	0.27100760	2.3649124	21	6 14.1	19.3
400841 2010 LN_{75}	16.8	X	213.71191	87.86529	264.96298	11.40639	0.3077872	0.23564349	2.5959665	21	3 12.3	21.9
400842 2010 LJ_{82}	17.1	X	175.80477	246.90473	128.46483	13.23415	0.2424861	0.22999783	2.6382760	21	3 21.6	21.8
400843 2010 LQ_{101}	16.6	X	183.40656	13.92903	321.17890	13.35714	0.2583021	0.22532406	2.6746339	21	2 5.8	21.1
400844 2010 LE_{107}	17.8	X	5.84340	137.64525	137.57208	4.76954	0.1848772	0.27278850	2.3546083	21	7 6.4	19.3
400845 2010 LU_{129}	16.4	X	204.60716	13.69200	300.46919	11.98315	0.2359243	0.22720134	2.6598805	21	1 26.3	20.9
400846 2010 MR_{2}	15.7	X	198.28032	75.25983	282.26507	28.32012	0.3089965	0.23149376	2.6268979	21	2 25.8	21.1
400847 2010 MH_{11}	16.7	X	182.71074	243.51825	129.89730	3.40477	0.3463620	0.22995193	2.6386271	21	3 24.4	21.7
400848 2010 MB_{20}	17.4	X	193.33739	86.87382	193.42937	8.42630	0.2177204	0.21814107	2.7330301	21	—	—
400849 2010 MS_{21}	17.1	X	239.01401	154.12498	172.34893	10.99553	0.2431427	0.23777038	2.5804625	21	3 5.9	21.6
400850 2010 ML_{32}	16.9	X	252.10631	224.17354	73.37557	4.87334	0.2474253	0.23623119	2.5916592	21	2 12.2	21.4
400851 2010 MQ_{32}	17.2	X	190.42041	135.30774	195.97411	5.42798	0.1526565	0.22533708	2.6745308	21	1 31.7	21.6
400852 2010 MK_{38}	16.3	X	178.83428	46.64639	316.46967	13.07552	0.1896099	0.22793088	2.6542018	21	2 27.8	20.7
400853 2010 MM_{102}	15.3	X	26.98982	259.51338	90.14862	23.33018	0.0914697	0.18624542	3.0367729	21	11 19.4	19.6
400854 2010 MA_{105}	16.7	X	163.49342	80.89726	291.62005	6.50900	0.1101016	0.22527997	2.6749828	21	2 21.0	20.8
400855 2010 MN_{113}	17.0	X	307.08990	176.57767	130.14225	3.29308	0.1970293	0.25783406	2.4447954	21	4 24.1	20.0
400856 2010 MQ_{115}	16.9	X	227.27857	188.58257	143.14674	9.60057	0.2027506	0.23395720	2.6084255	21	3 6.6	21.4
400857 2010 NJ_{36}	17.0	X	190.90043	99.46812	215.63675	6.25203	0.1842643	0.22095751	2.7097561	21	1 15.2	21.6
400858 2010 NV_{53}	17.0	X	160.11816	183.84749	137.73342	5.68446	0.0908107	0.21240015	2.7820579	21	—	—
400859 2010 ND_{56}	16.8	X	105.47247	161.73591	217.88291	3.72867	0.0810429	0.21103178	2.7940713	21	—	—
400860 2010 NQ_{57}	17.4	X	216.26998	119.82250	203.34267	4.44753	0.1839319	0.22860805	2.6489578	21	2 13.4	21.9
400861 2010 NA_{59}	17.1	X	112.12855	135.73740	240.06280	4.19239	0.0714743	0.21186739	2.7867198	21	—	—
400862 2010 NC_{66}	18.0	X	234.73066	36.67242	298.42631	6.25682	0.3170870	0.24148882	2.5539048	21	3 7.9	22.7
400863 2010 NY_{66}	16.9	X	248.82023	143.66370	105.69315	9.28088	0.1608780	0.23310588	2.6147724	21	—	—
400864 2010 NJ_{109}	16.4	X	30.88469	147.57513	210.45062	15.68402	0.0769971	0.18723882	3.0260223	21	11 26.9	20.6
400865 2010 OR_{12}	16.7	X	233.41760	89.68474	205.54346	10.84410	0.1840447	0.22638256	2.6662902	21	1 24.7	21.4
400866 2010 OD_{18}	15.9	X	354.12304	340.49532	14.73275	18.67398	0.1145138	0.17634904	3.1493479	21	10 2.3	19.8
400867 2010 ON_{27}	16.8	X	86.29963	191.59435	212.33023	3.75797	0.0720816	0.21003254	2.8029262	21	—	—
400868 2010 OT_{30}	15.7	X	60.87913	240.27748	83.78765	16.37102	0.1175295	0.18695798	3.0290519	21	11 29.8	20.1
400869 2010 OM_{36}	16.6	X	188.76544	74.98571	326.62886	11.33465	0.2152037	0.23402689	2.6079077	21	4 21.8	21.3
400870 2010 OP_{40}	17.1	X	231.66180	146.34751	189.58330	12.98991	0.2829465	0.23510144	2.5999552	21	3 9.3	21.8
400871 2010 OC_{44}	15.9	X	38.71027	348.44817	13.65057	12.50016	0.2372122	0.18922574	3.0048023	21	—	—
400872 2010 OG_{59}	17.1	X	242.26691	4.39080	295.15535	5.37747	0.3399577	0.23265652	2.6181382	21	2 2.0	22.1
400873 2010 OL_{82}	16.2	X	345.17645	65.12180	314.40936	13.82948	0.2916821	0.17749934	3.1357268	21	10 12.3	19.3
400874 2010 OD_{89}	15.9	X	4.94300	354.86366	3.62308	11.96899	0.1784665	0.17897872	3.1184236	21	10 24.9	19.5
400875 2010 OF_{93}	16.3	X	77.87029	33.97548	293.60436	7.95140	0.1997646	0.19212727	2.9744730	21	12 30.9	21.0
400876 2010 OA_{107}	15.3	X	353.05582	339.38578	42.77475	22.90429	0.2669183	0.18004957	3.1060468	21	11 12.1	18.1
400877 2010 OT_{120}	16.1	X	122.35142	317.00130	349.68568	12.63240	0.1081160	0.19585337	2.9366263	21	—	—
400878 2010 PC_{10}	15.8	X	174.55079	46.22975	322.50338	14.66374	0.3310869	0.22902895	2.6457113	21	3 7.9	20.8
400879 2010 PU_{21}	15.9	X	95.68095	7.48821	253.21730	7.01819	0.1408860	0.17765512	3.1338935	21	10 20.9	20.8
400880 2010 PW_{53}	16.9	X	208.27860	184.93685	163.64545	7.86989	0.3195060	0.23014054	2.6371852	21	3 10.3	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400881 2010 PY_{56}	16.6	X	144.94296	47.58876	277.80793	9.21708	0.2433884	0.21490619	2.7603878	21	—	—
400882 2010 PX_{75}	17.5	X	225.06992	165.90125	150.20634	4.60567	0.2369047	0.23426819	2.6061166	21	2 12.1	22.1
400883 2010 PF_{76}	17.2	X	223.91188	344.36134	334.17779	3.87723	0.1728633	0.23441492	2.6050289	21	2 15.5	21.3
400884 2010 PK_{80}	16.2	X	280.80480	287.84806	161.81356	10.54539	0.1078625	0.18412729	3.0600177	21	10 12.8	20.4
400885 2010 QV_{4}	16.8	X	167.15202	66.74902	300.53044	8.98660	0.2274700	0.22836426	2.6508427	21	2 25.3	21.3
400886 2010 QE_{5}	16.6	X	180.65723	288.26010	345.80370	9.10404	0.2176286	0.21417437	2.7666723	21	—	—
400887 2010 RQ_{5}	17.4	X	29.03233	271.68413	176.54513	2.22610	0.0957867	0.21235853	2.7824214	21	—	—
400888 2010 RD_{24}	17.1	X	190.13979	204.84533	127.42293	2.35185	0.1091992	0.22653362	2.6651046	21	2 1.2	21.2
400889 2010 RP_{39}	16.5	X	168.62877	54.13641	331.34721	10.97944	0.3123495	0.22938385	2.6429817	21	3 23.3	21.4
400890 2010 RX_{39}	16.6	X	256.71268	45.86046	248.11126	6.59580	0.1786647	0.23641813	2.5902929	21	2 11.4	20.9
400891 2010 RT_{49}	17.4	X	217.76117	110.62832	185.99083	6.69255	0.2441098	0.22577852	2.6710435	21	1 15.3	22.3
400892 2010 RO_{50}	16.4	X	51.81083	161.26190	184.76351	9.93476	0.1103256	0.19107044	2.9854310	21	12 13.9	20.7
400893 2010 RF_{59}	16.7	X	127.16287	96.81107	276.03085	5.19498	0.0400339	0.21929047	2.7234717	21	1 5.3	20.5
400894 2010 RP_{98}	17.3	X	223.39734	125.42782	201.67836	10.99155	0.1696800	0.23202137	2.6229141	21	2 22.4	21.8
400895 2010 RN_{102}	16.9	X	181.52189	87.64476	216.43620	3.91117	0.0489501	0.21345170	2.7729134	21	—	—
400896 2010 RR_{113}	16.1	X	329.86949	163.61195	224.17588	8.54926	0.0825695	0.17800254	3.1298144	21	10 2.6	20.2
400897 2010 RF_{118}	16.6	X	187.50272	188.11305	108.75909	4.69671	0.0486117	0.21206419	2.7849955	21	—	—
400898 2010 RR_{120}	16.2	X	327.92499	207.69666	192.26434	9.53266	0.0731583	0.18379181	3.0637403	21	10 19.6	20.1
400899 2010 RB_{132}	16.4	X	323.24969	339.73863	214.57963	15.07075	0.0949342	0.22694991	2.6618446	21	1 3.7	20.3
400900 2010 RY_{141}	16.8	X	28.40312	141.13486	215.77668	8.35340	0.0893207	0.18845146	3.0130271	21	11 23.9	20.7
400901 2010 RM_{155}	16.1	X	325.53155	225.09678	170.48077	10.71650	0.1105849	0.17736294	3.1373343	21	10 8.4	19.9
400902 2010 RG_{162}	16.7	X	335.02731	185.89709	213.16252	1.50695	0.0994519	0.18598881	3.0395655	21	10 28.2	20.4
400903 2010 RB_{165}	16.3	X	136.97843	356.89915	355.63235	6.65902	0.0909757	0.21397897	2.7683563	21	1 1.2	20.2
400904 2010 RG_{176}	17.2	X	94.58389	180.85932	206.01518	5.45681	0.0724516	0.21069722	2.7970282	21	—	—
400905 2010 RC_{184}	16.3	X	54.19225	194.13305	146.69864	9.16274	0.0725285	0.18986894	2.9980125	21	12 6.1	20.6
400906 2010 SP_{5}	16.2	X	334.56804	135.58493	251.24647	9.09843	0.0466195	0.18208309	3.0828778	21	10 8.7	20.4
400907 2010 SB_{42}	16.4	X	167.15358	52.41674	296.07218	13.65132	0.1332316	0.22045250	2.7138928	21	1 29.8	20.6
400908 2010 TN_{18}	16.6	X	104.34178	30.57310	270.90715	4.57164	0.0575411	0.19600936	2.9350680	21	12 14.0	20.8
400909 2010 TY_{24}	16.3	X	89.62211	26.41046	21.28913	14.55827	0.1595430	0.21290652	2.7776450	21	1 23.1	20.0
400910 2010 TV_{46}	16.3	X	250.89628	342.77239	335.27815	13.98385	0.2237779	0.23677135	2.5877160	21	3 5.3	20.7
400911 2010 TH_{49}	16.5	X	50.49168	118.96256	189.71865	8.93038	0.0643902	0.17897507	3.1184661	21	10 19.6	20.8
400912 2010 TW_{88}	16.6	X	183.98088	139.37406	116.21135	3.05094	0.0355766	0.20144112	2.8820663	21	—	—
400913 2010 TS_{101}	16.8	X	157.67124	187.27182	102.60601	3.28590	0.0350197	0.20370564	2.8606672	21	—	—
400914 2010 TM_{104}	16.7	X	208.05092	75.67265	186.98529	14.31671	0.1245236	0.21133535	2.7913949	21	—	—
400915 2010 TW_{110}	16.5	X	114.03421	141.68181	235.36897	8.68448	0.1389530	0.21065092	2.7974381	21	1 8.8	20.3
400916 2010 TX_{115}	17.1	X	198.93688	82.78675	279.17949	4.10014	0.1927518	0.23002550	2.6380644	21	3 16.4	21.7
400917 2010 TD_{149}	15.6	X	38.49177	139.80165	200.25935	10.51451	0.0871056	0.18202503	3.0835333	21	11 15.6	19.8
400918 2010 TN_{149}	16.4	X	94.47527	350.52351	36.36277	8.23538	0.2485594	0.19892501	2.9063180	21	1 17.7	20.2
400919 2010 TC_{160}	16.0	X	89.81476	206.83394	41.12673	9.62919	0.0716935	0.17516074	3.1635755	21	9 26.5	20.6
400920 2010 TA_{166}	16.2	X	343.48540	348.49252	77.32823	5.64120	0.1357532	0.18366675	3.0651309	21	12 15.7	19.7
400921 2010 TB_{174}	16.7	X	192.82323	272.31795	86.57908	13.35490	0.3056377	0.22918333	2.6445231	21	3 18.6	21.8
400922 2010 TC_{181}	16.7	X	228.24886	110.22454	182.67801	14.12457	0.1530588	0.22604787	2.6689213	21	1 18.9	21.3
400923 2010 TR_{187}	16.0	X	18.00275	240.83625	138.75200	14.70272	0.2522869	0.18378351	3.0638325	21	12 29.2	19.9
400924 2010 UO_{3}	16.8	X	147.47485	140.57611	230.75892	8.94547	0.1500079	0.21675555	2.7446643	21	2 6.9	21.1
400925 2010 UU_{9}	16.1	X	2.61839	142.34582	218.61511	11.75006	0.0897871	0.17687860	3.1430590	21	10 19.4	20.1
400926 2010 UO_{25}	16.0	X	331.86904	12.87320	72.38343	12.27746	0.0627697	0.18240980	3.0791955	21	12 19.6	20.0
400927 2010 UD_{28}	15.6	X	234.91489	302.76160	224.70029	11.79047	0.0536738	0.18083195	3.0970813	21	11 24.9	20.0
400928 2010 UA_{43}	16.7	X	83.80854	328.54690	42.26586	13.49722	0.1128417	0.20135730	2.8828660	21	—	—
400929 2010 UB_{45}	16.8	X	181.14385	359.55423	310.04760	5.27767	0.1657273	0.21272441	2.7792300	21	1 2.5	21.3
400930 2010 UG_{58}	15.4	X	244.23594	272.80242	254.48074	12.25259	0.0896608	0.17964947	3.1106568	21	11 30.1	19.9
400931 2010 UV_{58}	16.2	X	336.36304	4.27057	53.52111	11.22192	0.0677631	0.17844825	3.1246007	21	11 21.2	20.3
400932 2010 UT_{78}	15.4	X	222.43533	222.95447	303.61180	8.71731	0.0938233	0.17969519	3.1101291	21	10 31.9	20.2
400933 2010 UZ_{92}	16.2	X	94.02729	264.22409	22.42130	8.80786	0.0525655	0.17812542	3.1283748	21	11 9.7	20.8
400934 2010 UP_{94}	15.9	X	216.70012	245.50514	133.55420	28.63240	0.3239449	0.23848885	2.5752773	21	4 29.2	21.3
400935 2010 UE_{107}	15.8	X	337.31728	275.51888	125.12480	16.26972	0.2303472	0.17843606	3.1247429	21	11 8.1	19.2
400936 2010 VP_{5}	16.5	X	86.09376	337.61229	81.34476	8.09816	0.1163659	0.21088854	2.7953363	21	1 23.2	20.0
400937 2010 VH_{25}	15.6	X	67.81881	73.00985	244.74268	13.63984	0.0314314	0.17635506	3.1492763	21	11 14.6	20.0
400938 2010 VD_{29}	16.3	X	7.02358	168.00742	244.69494	7.98538	0.0205458	0.18836375	3.0139624	21	12 25.5	20.4
400939 2010 VH_{30}	16.3	X	52.66514	198.02529	138.24853	8.37595	0.1723870	0.18689389	3.0297443	21	12 11.5	20.7
400940 2010 VG_{31}	16.0	X	11.81652	173.54111	207.47333	10.19383	0.1946843	0.18313929	3.0710133	21	12 12.1	19.7
400941 2010 VD_{40}	16.9	X	50.77862	118.25797	286.46796	4.78764	0.0889827	0.19510034	2.9441778	21	—	—
400942 2010 VT_{45}	16.1	X	273.41098	204.41847	264.10522	8.08686	0.0430930	0.17506646	3.1647112	21	10 29.4	20.6
400943 2010 VA_{47}	16.0	X	155.23182	333.35684	247.88848	15.18329	0.0842093	0.17273349	3.1931429	21	10 28.9	21.1
400944 2010 VF_{64}	15.4	X	177.85305	102.69672	82.20579	10.13008	0.0279113	0.17218955	3.1998640	21	10 17.3	20.2
400945 2010 VO_{65}	16.5	X	348.56076	333.38405	96.61211	6.44953	0.1163053	0.18842745	3.0132831	21	12 29.6	20.2
400946 2010 VJ_{83}	16.6	X	157.52845	120.92657	249.80649	3.47071	0.1402097	0.21618126	2.7495229	21	2 17.4	20.8
400947 2010 VT_{90}	16.1	X	43.01486	144.71490	254.62020	10.62814	0.1499490	0.19163711	2.9795429	21	—	—
400948 2010 VJ_{112}	15.7	X	13.43180	327.32515	65.31068	11.29474	0.1085547	0.18350486	3.0669334	21	12 17.5	19.6
400949 2010 VX_{114}	15.6	X	13.24840	131.73303	260.31729	13.57128	0.0563336	0.18143658	3.0901968	21	12 10.8	19.8
400950 2010 VU_{115}	16.2	X	337.85011	36.90676	19.28112	9.99268	0.0945412	0.18038894	3.1021499	21	11 20.0	20.2
400951 2010 VM_{118}	15.7	X	125.91129	13.49924	255.90122	16.84284	0.1670287	0.18130510	3.0916907	21	12 2.1	20.6
400952 2010 VO_{125}	16.6	X	73.17882	240.92619	149.44471	2.57238	0.0929213	0.19685937	2.9266131	21	—	—
400953 2010 VP_{125}	16.0	X	68.90167	142.29857	229.51994	7.95442	0.1004012	0.19161081	2.9798155	21	—	—
400954 2010 VH_{128}	15.5	X	323.54602	145.22282	232.86936	9.73194	0.1114589	0.16914696	3.2381223	21	9 4.9	19.7
400955 2010 VG_{142}	16.3	X	331.31379	213.88109	169.62067	5.49347	0.1454164	0.17241543	3.1970686	21	9 28.4	20.0
400956 2010 VH_{143}	16.6	X	10.55645	275.24517	137.48850	5.18128	0.0864963	0.18893003	3.0079369	21	—	—
400957 2010 VD_{169}	16.8	X	153.35295	87.69925	224.94642	1.05122	0.0443923	0.19781722	2.9171582	21	—	—
400958 2010 VQ_{181}	16.4	X	69.62142	280.45999	72.39831	10.97439	0.1226558	0.18804571	3.0173597	21	—	—
400959 2010 VG_{182}	16.8	X	234.68723	9.73811	333.37693	2.69699	0.2018330	0.23280129	2.6170526	21	3 24.3	21.2
400960 2010 VB_{201}	16.0	X	2.77255	77.77057	330.55476	8.69442	0.1223898	0.18289926	3.0736995	21	12 23.8	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
400961 2010 VC_{204}	16.1	X	54.49726	336.33586	339.86391	11.48414	0.1288445	0.18324273	3.0698575	21	11 7.2	20.6
400962 2010 VF_{213}	16.6	X	196.99577	9.05059	268.84516	7.10554	0.1952628	0.21102241	2.7941540	21	—	—
400963 2010 VH_{216}	16.7	X	77.17120	257.91375	33.88391	9.66678	0.1597466	0.18125723	3.0922349	21	11 10.9	21.4
400964 2010 WZ_{2}	16.5	X	65.45525	90.45334	253.99335	14.33686	0.2404992	0.18877940	3.0095367	21	—	—
400965 2010 WA_{3}	15.8	X	25.72626	346.84352	53.86159	10.10572	0.1504902	0.18806097	3.0171965	21	—	—
400966 2010 WT_{4}	16.2	X	62.33025	89.48713	226.13973	2.59748	0.0156791	0.17711781	3.1402283	21	11 3.8	20.5
400967 2010 WD_{8}	16.1	X	13.10691	288.29922	64.95277	10.97479	0.1984209	0.17721012	3.1391377	21	11 9.1	19.7
400968 2010 WF_{8}	15.7	X	357.66027	307.03173	70.21179	17.79611	0.2334362	0.17653496	3.1471364	21	11 16.5	18.9
400969 2010 WS_{11}	16.3	X	59.81024	108.73205	297.13806	9.02849	0.1061334	0.19927286	2.9029348	21	—	—
400970 2010 WO_{12}	16.8	X	35.48005	47.85877	323.51227	9.13959	0.0539570	0.18450413	3.0558497	21	12 14.6	21.1
400971 2010 WG_{20}	16.6	X	52.53025	265.23390	67.72441	3.03350	0.2061120	0.18076044	3.0978981	21	12 9.7	21.0
400972 2010 XX_{17}	16.0	X	83.62070	91.39985	260.35149	9.99485	0.0894857	0.18267644	3.0761985	21	—	—
400973 2010 XK_{19}	15.2	X	332.51092	143.13376	291.76517	26.46262	0.1437395	0.17448490	3.1717393	21	12 8.0	19.3
400974 2010 XQ_{35}	16.6	X	97.52630	244.23505	97.36411	2.90925	0.1377478	0.19165222	2.9793862	21	—	—
400975 2010 XE_{36}	15.7	X	332.72862	359.78677	95.20921	9.76700	0.2082865	0.18372061	3.0645318	21	—	—
400976 2010 XE_{42}	15.9	X	48.37296	119.33722	278.76409	9.99909	0.1503716	0.18691725	3.0294918	21	—	—
400977 2010 XM_{42}	16.6	X	191.05025	288.83147	32.94953	4.47092	0.0972905	0.22187601	2.7022726	21	1 21.8	20.7
400978 2010 XH_{45}	15.7	X	334.24733	337.27697	76.55381	10.43945	0.1229867	0.17653297	3.1471600	21	11 14.9	19.4
400979 2010 XM_{53}	16.6	X	80.56632	263.13464	82.33499	2.53927	0.0984445	0.18974645	2.9993026	21	—	—
400980 2010 XJ_{56}	18.3	X	263.82081	12.40940	85.05355	19.23431	0.1231132	0.44822460	1.6909818	21	11 20.4	19.1
400981 2010 XT_{71}	15.7	X	279.11910	204.24217	272.53511	7.91193	0.0564087	0.17428239	3.1741958	21	11 14.8	20.1
400982 2010 XX_{76}	15.8	X	164.09415	160.64301	87.01965	14.11841	0.0796979	0.18012036	3.1052329	21	12 11.2	20.6
400983 2010 XK_{83}	15.9	X	335.99956	162.67174	262.53354	5.49182	0.1310380	0.17833519	3.1259211	21	11 30.7	19.6
400984 2010 XT_{86}	15.7	X	24.18371	189.60768	247.17186	12.99965	0.1454224	0.19217099	2.9740220	21	—	—
400985 2010 YA_{1}	15.6	X	40.82355	125.47529	267.95985	14.58244	0.0741341	0.18638535	3.0352528	21	—	—
400986 2011 AZ_{27}	15.4	X	12.19446	284.10044	117.39373	27.09632	0.2245968	0.17903418	3.1177797	21	—	—
400987 2011 AB_{40}	15.9	X	63.85194	248.52290	145.57279	10.24573	0.1195363	0.18560937	3.0437066	21	—	—
400988 2011 AX_{43}	15.9	X	26.86656	293.92447	119.53066	13.90098	0.1878824	0.18166213	3.0876385	21	—	—
400989 2011 BL_{22}	15.4	X	264.34648	124.44415	304.33604	8.71989	0.0657810	0.14576428	3.5757623	21	8 24.3	20.4
400990 2011 BB_{61}	16.0	X	3.22821	115.64413	305.98881	8.99310	0.1811752	0.17745434	3.1362570	21	—	—
400991 2011 CX_{24}	15.7	X	23.67773	270.15089	127.05904	23.59745	0.1967121	0.17725186	3.1386449	21	—	—
400992 2011 CJ_{42}	17.7	X	55.84100	303.43484	151.38655	23.74649	0.0479367	0.38308805	1.8776025	21	—	—
400993 2011 CZ_{117}	17.9	X	49.39942	4.05505	118.25036	24.89598	0.0592867	0.38659426	1.8662327	21	—	—
400994 2011 EC_{86}	18.1	X	284.89342	122.54044	122.89331	23.87540	0.0444359	0.37632921	1.9000168	21	—	—
400995 2011 GN_{41}	17.8	X	230.75294	67.54227	166.93006	23.20345	0.0827908	0.35894677	1.9608725	21	—	—
400996 2011 OO_{17}	16.3	X	205.62304	67.59992	233.48660	12.90115	0.1396561	0.25322882	2.4743472	21	1 4.1	20.4
400997 2011 QX_{9}	18.2	X	318.88275	351.77417	318.86717	6.34413	0.1290621	0.28277985	2.2988135	21	5 25.3	20.8
400998 2011 QE_{10}	17.1	X	38.32225	291.89563	310.84629	6.83649	0.1050065	0.28685552	2.2769871	21	7 16.1	19.2
400999 2011 QG_{11}	17.8	X	15.96150	189.90189	137.69823	1.38409	0.1988352	0.30151181	2.2025875	21	11 4.2	19.5
401000 2011 QV_{13}	18.3	X	314.22278	206.22705	148.80661	3.29637	0.3148766	0.28982363	2.2614146	21	6 22.9	20.2
401001 2011 QO_{17}	17.7	X	282.88924	199.71303	152.47913	6.15223	0.1263861	0.28004080	2.3137788	21	6 3.2	20.7
401002 2011 QC_{31}	17.9	X	3.72071	214.56945	105.34905	4.35094	0.2006754	0.29749651	2.2223620	21	9 28.1	19.3
401003 2011 QG_{40}	17.9	X	279.46683	164.85698	170.70731	5.27378	0.1850569	0.27821215	2.3239065	21	4 27.8	21.0
401004 2011 QX_{61}	18.0	X	349.60781	17.14776	282.98207	4.21568	0.1904371	0.28795306	2.2711976	21	7 8.2	19.2
401005 2011 QG_{88}	18.2	X	92.77060	98.02893	147.01486	5.11162	0.1389019	0.30205972	2.1999231	21	10 15.8	21.1
401006 2011 QG_{92}	16.3	X	290.09365	249.12674	304.11808	10.59940	0.1867300	0.24155716	2.5534231	21	—	—
401007 2011 QX_{92}	18.1	X	322.22962	50.22215	316.47932	6.00953	0.1110798	0.29368594	2.2415440	21	9 2.9	20.2
401008 2011 QN_{93}	17.5	X	78.41170	311.87509	280.43961	4.42395	0.1225115	0.29262257	2.2469712	21	9 2.7	20.4
401009 2011 RM_{3}	17.9	X	351.42564	314.28184	4.46224	7.96887	0.2739365	0.29258397	2.2471688	21	8 26.2	18.5
401010 2011 RX_{10}	18.4	X	321.31789	41.76926	303.27706	1.24408	0.2297853	0.28965205	2.2623076	21	7 10.0	19.9
401011 2011 RP_{13}	18.1	X	15.29045	150.61206	156.14424	4.19539	0.1884974	0.29771274	2.2212858	21	9 28.3	19.7
401012 2011 RY_{13}	18.5	X	355.07728	92.86139	226.70475	2.11280	0.1932081	0.29389889	2.2404612	21	8 29.1	19.8
401013 2011 RV_{15}	17.5	X	78.73909	216.82732	258.69106	6.12507	0.0712832	0.25842810	2.4410474	21	3 8.0	20.4
401014 2011 SV_{4}	17.5	X	308.35993	324.80789	332.36477	6.54326	0.1220239	0.27370200	2.3493663	21	4 18.2	20.3
401015 2011 SB_{9}	17.6	X	348.47344	119.15855	167.27195	4.34357	0.1456075	0.27999419	2.3140356	21	6 14.6	19.6
401016 2011 SV_{29}	17.5	X	260.53037	230.53548	142.10236	6.22471	0.2377511	0.27657931	2.3330440	21	5 21.0	21.1
401017 2011 SE_{32}	17.4	X	290.70163	141.74563	200.33050	12.41596	0.2527689	0.27604146	2.3360735	21	5 10.9	20.5
401018 2011 SQ_{34}	17.4	X	314.41078	266.28144	27.35267	7.60859	0.1719598	0.27339340	2.3511339	21	4 17.2	19.8
401019 2011 SC_{35}	17.1	X	111.90789	122.75590	182.39348	3.94076	0.0522119	0.21458310	2.7631579	21	12 29.6	21.2
401020 2011 SZ_{36}	17.8	X	235.08304	251.33685	164.65502	6.97926	0.1045784	0.27623736	2.3349689	21	7 3.2	21.1
401021 2011 SF_{40}	17.4	X	265.36187	186.87430	168.05611	6.88991	0.1431286	0.27315156	2.3525215	21	5 13.8	20.7
401022 2011 SN_{46}	17.4	X	240.21431	197.53005	185.69493	4.67436	0.2307464	0.27190844	2.3596862	21	5 15.6	21.3
401023 2011 SC_{51}	17.9	X	333.93295	44.70184	311.00100	6.02244	0.2641825	0.29248362	2.2476828	21	8 31.6	18.7
401024 2011 SC_{56}	18.0	X	327.70679	178.89830	99.41049	3.15563	0.2030621	0.27275060	2.3548265	21	4 12.8	20.4
401025 2011 SN_{80}	17.5	X	314.79646	248.25408	344.93992	6.02133	0.0989763	0.25670829	2.4519378	21	2 8.9	20.5
401026 2011 SU_{98}	18.1	X	3.90406	79.86353	187.44907	5.07970	0.1493453	0.28002405	2.3138711	21	6 17.2	19.9
401027 2011 SG_{102}	17.5	X	321.26579	148.33693	129.46706	3.56169	0.1894035	0.27392389	2.3480974	21	4 3.7	20.1
401028 2011 SK_{118}	17.5	X	307.97898	268.84257	118.28748	8.24801	0.1334538	0.29109570	2.2548216	21	9 10.2	19.6
401029 2011 SB_{126}	18.5	X	15.84686	295.11886	37.93847	5.20249	0.1850885	0.29640806	2.2277992	21	11 7.7	20.5
401030 2011 SJ_{127}	18.0	X	64.67863	113.60934	178.90688	5.08568	0.1772756	0.30286425	2.1960255	21	11 20.4	21.0
401031 2011 SL_{127}	17.6	X	239.19804	172.53936	178.27110	4.97026	0.1253367	0.26322948	2.4112729	21	4 10.5	21.1
401032 2011 SR_{135}	17.7	X	51.41962	293.99225	325.22761	7.22125	0.1294370	0.29202066	2.2500577	21	9 4.8	20.0
401033 2011 SX_{166}	15.9	X	234.24933	101.64563	40.38035	11.55125	0.0515220	0.19205994	2.9751682	21	10 26.7	20.0
401034 2011 SK_{182}	17.1	X	58.47104	83.41287	324.78453	2.14326	0.0903554	0.22375262	2.6871421	21	—	—
401035 2011 SL_{185}	17.8	X	262.27473	243.65963	166.68606	5.40111	0.1566009	0.28025239	2.3126141	21	7 22.1	20.8
401036 2011 SO_{191}	17.6	X	328.58833	131.48865	221.33266	6.00106	0.1195173	0.28486615	2.2875758	21	8 20.9	19.8
401037 2011 ST_{198}	17.8	X	325.52002	126.65142	156.84041	6.70092	0.0601190	0.27415092	2.3468009	21	5 10.8	20.5
401038 2011 SH_{208}	16.1	X	182.17820	278.24335	192.70331	17.76405	0.1436309	0.17784412	3.1316728	21	7 13.9	21.5
401039 2011 ST_{216}	16.9	X	67.37057	322.93582	83.66412	6.68029	0.2148195	0.22561315	2.6723486	21	—	—
401040 2011 SA_{240}	17.9	X	31.89991	104.63277	188.38453	3.17419	0.0175853	0.29168876	2.2517643	21	9 7.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401041 2011 SW_{256}	17.4	X	44.31306	197.39525	50.76578	7.52060	0.0768962	0.27727765	2.3291251	21	8 1.8	20.1
401042 2011 SJ_{260}	16.7	X	344.07637	19.81300	72.30696	5.86863	0.0376804	0.21464220	2.7626507	21	—	—
401043 2011 SZ_{260}	17.3	X	344.50193	231.11042	45.18167	4.92168	0.0507607	0.27004127	2.3705509	21	5 29.3	19.8
401044 2011 SH_{269}	17.2	X	344.87596	260.09375	53.22321	4.81115	0.0244790	0.28275053	2.2989724	21	7 28.7	19.8
401045 2011 SC_{273}	17.7	X	243.60432	298.19925	71.27401	3.71999	0.1948787	0.27155321	2.3617436	21	5 3.5	21.4
401046 2011 TM_{9}	18.6	X	34.16418	137.05800	190.25898	4.25259	0.1927279	0.30435456	2.1888509	21	12 2.0	21.0
401047 2011 TH_{13}	17.0	X	289.09555	71.59585	237.51820	10.61565	0.2222452	0.26852931	2.3794409	21	3 24.9	20.7
401048 2011 UK	17.1	X	184.12411	156.56611	147.31756	11.47609	0.1571292	0.23551109	2.5969394	21	—	—
401049 2011 UA_{2}	17.7	X	298.34111	67.70412	243.23696	2.87948	0.2396408	0.27186475	2.3599390	21	4 7.3	20.7
401050 2011 UG_{6}	17.2	X	87.80724	328.15825	47.75183	2.09157	0.0899232	0.22121053	2.7076894	21	—	—
401051 2011 US_{7}	17.1	X	118.62808	116.82429	228.18970	5.34990	0.0793444	0.22228332	2.6989705	21	—	—
401052 2011 UN_{16}	15.9	X	154.12933	297.20540	229.89738	21.91012	0.2016960	0.17162503	3.2068770	21	8 21.1	21.7
401053 2011 UE_{17}	17.2	X	312.98829	92.36339	246.75779	5.88185	0.1391481	0.27712704	2.3299689	21	6 28.3	19.5
401054 2011 UG_{17}	17.3	X	154.61051	277.03890	40.44013	6.07368	0.0593551	0.22340625	2.6899188	21	—	—
401055 2011 UU_{19}	16.2	X	50.20533	27.83508	247.64139	9.29355	0.0616709	0.18104281	3.0946761	21	9 1.5	20.6
401056 2011 UU_{24}	18.0	X	237.20730	334.59875	359.89872	2.48953	0.1808709	0.25796814	2.4439483	21	3 15.5	22.0
401057 2011 UP_{35}	17.4	X	309.94071	290.40563	63.78618	6.36163	0.1891045	0.28035428	2.3120537	21	7 8.9	19.5
401058 2011 UE_{36}	16.8	X	121.04515	311.50920	62.19846	5.12858	0.1487267	0.22985657	2.6393567	21	1 12.8	20.3
401059 2011 UF_{39}	17.7	X	285.78455	143.70542	237.55214	5.62761	0.1225563	0.28216173	2.3021696	21	7 18.8	20.3
401060 2011 UN_{39}	15.6	X	284.43351	295.34988	47.46396	33.73159	0.0860845	0.17118963	3.2123121	21	5 25.9	20.4
401061 2011 UT_{45}	17.7	X	280.14387	306.98503	17.51006	2.80732	0.2196195	0.26984216	2.3717169	21	4 8.5	21.0
401062 2011 UZ_{45}	16.7	X	96.86525	184.29920	226.27225	12.37443	0.1550973	0.23393847	2.6085647	21	1 22.9	20.1
401063 2011 UP_{46}	17.1	X	58.13842	50.66793	242.03241	8.85945	0.0342019	0.29306427	2.2447129	21	10 16.9	19.8
401064 2011 UM_{53}	17.0	X	46.24911	217.20488	259.76751	3.30358	0.1616792	0.23137818	2.6277726	21	1 30.6	19.5
401065 2011 US_{53}	17.8	X	266.42551	309.38410	34.65227	5.25572	0.0980676	0.26323259	2.4112539	21	5 4.4	21.1
401066 2011 UN_{54}	17.7	X	311.21242	151.44285	222.51601	5.14322	0.1902266	0.28516363	2.2859845	21	8 10.2	19.7
401067 2011 UP_{54}	15.9	X	357.89140	270.00026	51.73840	11.31231	0.0564979	0.17880026	3.1204983	21	8 28.2	20.2
401068 2011 UE_{59}	17.6	X	23.74383	115.77267	179.47776	7.29925	0.1325245	0.29168590	2.2517790	21	9 14.3	19.5
401069 2011 UK_{59}	17.3	X	152.70198	139.24857	234.17744	12.83567	0.1880628	0.23940401	2.5687102	21	2 13.2	21.6
401070 2011 UO_{79}	16.7	X	251.23075	317.59298	252.98930	3.93668	0.0537704	0.22001682	2.7174744	21	—	—
401071 2011 UH_{80}	18.6	X	27.77620	61.18854	263.70615	2.25314	0.2425976	0.29892117	2.2152952	21	11 25.9	20.9
401072 2011 UT_{80}	17.8	X	311.54015	158.44075	222.81501	6.18593	0.1228696	0.28645564	2.2791057	21	9 1.6	20.1
401073 2011 UC_{82}	16.0	X	149.45857	313.27993	256.50407	10.81963	0.1564034	0.18708292	3.0277031	21	10 10.9	21.2
401074 2011 UM_{84}	17.0	X	39.44722	112.95189	20.83225	6.37954	0.0369182	0.23619388	2.5919321	21	2 10.4	20.3
401075 2011 UV_{86}	16.5	X	186.64479	90.87525	238.12792	25.03169	0.2187617	0.23768773	2.5810606	21	1 20.0	21.4
401076 2011 UK_{94}	17.6	X	345.05930	299.88922	14.92559	0.82856	0.2275640	0.28249087	2.3003810	21	7 20.8	18.7
401077 2011 UM_{101}	16.3	X	40.40789	331.50812	54.75989	20.94590	0.0730508	0.20975379	2.8054089	21	—	—
401078 2011 UD_{102}	17.7	X	265.10974	285.49478	22.93003	2.79338	0.1904061	0.25715856	2.4490748	21	3 9.1	21.3
401079 2011 UY_{102}	16.6	X	338.15820	254.51256	260.06534	9.90106	0.1255249	0.22185455	2.7024468	21	—	—
401080 2011 US_{103}	16.9	X	301.51065	187.90202	58.76062	16.05515	0.0689321	0.23935060	2.5690922	21	2 24.2	20.7
401081 2011 UD_{106}	17.9	X	245.94599	199.73297	116.26392	1.89170	0.1860891	0.25743631	2.4473130	21	2 28.9	21.7
401082 2011 UT_{116}	17.5	X	358.26587	300.00642	0.06803	6.03758	0.1403619	0.28310738	2.2970402	21	8 2.3	19.4
401083 2011 UV_{119}	18.0	X	63.65729	193.21457	89.57860	2.89294	0.1011710	0.29770589	2.2213198	21	10 25.7	20.6
401084 2011 UZ_{128}	17.3	X	298.49284	121.35330	261.83530	5.93126	0.1479459	0.28215202	2.3022224	21	8 7.0	19.6
401085 2011 UB_{129}	16.2	X	7.73790	117.16222	34.95369	11.80312	0.0784389	0.23016331	2.6370112	21	1 18.8	19.6
401086 2011 UE_{131}	15.7	X	313.47250	157.72616	227.11629	21.56603	0.0769614	0.18382389	3.0633838	21	8 30.1	20.2
401087 2011 UV_{132}	16.8	X	117.14322	96.87417	234.46140	5.47556	0.0118757	0.21659761	2.7459984	21	—	—
401088 2011 UD_{137}	16.9	X	10.00878	90.83475	34.72608	11.91683	0.0267339	0.22496080	2.6775123	21	—	—
401089 2011 UP_{139}	18.1	X	3.94762	326.04446	346.55075	1.12013	0.0713795	0.28066578	2.3103427	21	8 28.1	20.3
401090 2011 UM_{141}	17.4	X	352.97787	216.79425	99.96116	5.28033	0.1738429	0.28599204	2.2815680	21	8 19.9	18.9
401091 2011 UW_{152}	15.4	X	137.73468	324.24423	237.90465	26.34602	0.1138631	0.17739582	3.1369466	21	9 13.6	20.8
401092 2011 UM_{156}	16.7	X	209.46974	217.71210	71.11115	14.53250	0.2438941	0.23364217	2.6107697	21	—	—
401093 2011 US_{164}	16.7	X	227.04727	114.08169	200.52819	13.59076	0.0956063	0.24626236	2.5207940	21	2 9.7	20.7
401094 2011 UT_{170}	17.8	X	1.95845	318.75103	329.13912	7.22577	0.1172153	0.28167267	2.3048336	21	7 19.2	19.8
401095 2011 UA_{177}	18.0	X	302.14369	311.10501	17.02899	3.07519	0.1345509	0.27195011	2.3594452	21	5 24.7	20.8
401096 2011 UK_{182}	16.7	X	166.53555	356.38411	1.83435	5.17657	0.1747633	0.23996552	2.5647015	21	2 13.6	20.8
401097 2011 UG_{183}	17.8	X	270.24905	93.33368	299.82957	1.81909	0.1948932	0.27602398	2.3361721	21	7 3.2	20.9
401098 2011 UO_{189}	17.7	X	305.06254	275.78342	94.81512	6.22729	0.1550358	0.28229816	2.3014278	21	8 1.9	19.9
401099 2011 UZ_{189}	18.4	X	5.81536	258.93953	62.66733	6.86528	0.2881265	0.29031292	2.2588730	21	10 20.7	19.8
401100 2011 UQ_{190}	17.3	X	143.35094	257.96399	285.85295	3.84945	0.0577994	0.28607109	2.2811477	21	9 9.3	20.4
401101 2011 UD_{197}	17.2	X	304.51379	276.67842	4.58755	6.04684	0.1399665	0.25751557	2.4468108	21	3 23.9	20.3
401102 2011 UQ_{202}	17.3	X	310.99846	273.65211	70.65639	7.43218	0.1606002	0.27715197	2.3298291	21	6 29.6	19.6
401103 2011 UJ_{209}	17.1	X	255.48330	305.94458	326.12063	3.85190	0.1199005	0.24511435	2.5286588	21	1 20.6	20.9
401104 2011 UO_{218}	16.9	X	59.80737	116.40773	47.62711	7.03905	0.0601172	0.25689310	2.4507618	21	4 20.2	19.6
401105 2011 UQ_{218}	17.6	X	251.65590	202.24581	56.04052	4.57660	0.2038945	0.24269878	2.5454095	21	—	—
401106 2011 UQ_{242}	16.2	X	169.90899	37.86430	237.40446	12.53781	0.1362935	0.21532668	2.7567929	21	—	—
401107 2011 UY_{242}	16.4	X	183.34123	258.30089	241.04563	11.21332	0.0936880	0.17371672	3.1810828	21	8 17.3	21.5
401108 2011 UN_{243}	17.3	X	300.95831	319.12186	46.91100	5.55442	0.2156669	0.28068124	2.3102579	21	7 5.9	19.6
401109 2011 UE_{245}	18.0	X	176.12718	132.64456	298.71921	0.61863	0.1682598	0.25997447	2.4313581	21	5 21.1	21.8
401110 2011 UQ_{251}	16.8	X	42.78567	314.60725	85.79174	5.30933	0.1020539	0.21178459	2.7874461	21	—	—
401111 2011 UP_{253}	17.2	X	93.34877	265.15818	108.10808	3.05914	0.1044472	0.21950205	2.7217214	21	—	—
401112 2011 UQ_{256}	16.7	X	98.04514	150.62695	230.25165	4.80646	0.0565381	0.22456829	2.6806313	21	—	—
401113 2011 UN_{260}	17.6	X	328.20153	321.64456	29.11979	7.56484	0.1444389	0.28345786	2.2951464	21	8 22.4	19.6
401114 2011 UZ_{267}	17.4	X	194.85292	100.65467	254.92261	4.13146	0.1690484	0.24687871	2.5165967	21	3 3.2	21.6
401115 2011 UP_{268}	16.4	X	16.56582	29.30940	26.90182	13.93145	0.1742606	0.21233075	2.7826641	21	—	—
401116 2011 US_{268}	17.8	X	287.62545	108.88089	270.64111	5.56060	0.1329120	0.28113195	2.3077880	21	7 18.0	20.3
401117 2011 UF_{275}	16.0	X	172.47261	273.26047	230.18087	17.32093	0.0928923	0.17538252	3.1609080	21	8 9.5	21.3
401118 2011 UL_{275}	16.9	X	99.17200	113.09400	252.14265	5.52641	0.0268698	0.22173184	2.7034438	21	—	—
401119 2011 UB_{277}	17.3	X	163.42487	87.43836	353.95174	5.46774	0.0363298	0.25717332	2.4489812	21	5 12.5	20.7
401120 2011 US_{280}	17.7	X	281.61547	136.49916	248.03819	4.73064	0.1734098	0.28055826	2.3109329	21	7 9.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401121 2011 UF_{281}	17.4	X	228.38592	304.95277	90.06564	5.64912	0.1285115	0.26634345	2.3924417	21	5 26.8	20.8
401122 2011 UE_{284}	17.1	X	158.07111	331.43098	29.71093	5.16334	0.2027000	0.23748732	2.5825125	21	2 12.5	21.2
401123 2011 UW_{286}	17.2	X	112.77806	28.76398	326.89781	4.60347	0.0176955	0.22416779	2.6838232	21	—	—
401124 2011 UA_{293}	17.5	X	309.52144	192.63809	104.16399	3.40369	0.1996572	0.26449302	2.4035874	21	4 12.7	20.4
401125 2011 UF_{293}	17.5	X	276.80144	305.63149	73.54428	6.62969	0.1162195	0.27467611	2.3438085	21	7 4.8	20.5
401126 2011 UZ_{294}	17.6	X	52.40872	251.88882	84.84270	3.64292	0.2209467	0.30826691	2.1702917	21	—	—
401127 2011 US_{299}	16.0	X	62.77552	34.65138	223.48499	11.75331	0.1242259	0.17993085	3.1074128	21	9 5.4	20.4
401128 2011 US_{306}	17.4	X	226.08783	208.47242	226.13793	2.92574	0.0778620	0.28079359	2.3096416	21	7 20.9	20.5
401129 2011 UW_{307}	15.4	X	214.07362	203.62661	259.43252	15.18831	0.1953410	0.17350555	3.1836634	21	7 28.9	20.8
401130 2011 UJ_{309}	17.4	X	285.07373	251.67006	86.67869	8.39960	0.2029279	0.27400627	2.3476267	21	5 7.4	20.5
401131 2011 UL_{314}	17.7	X	286.17588	177.69194	119.76914	3.23643	0.2122916	0.26125970	2.4233776	21	3 14.1	21.2
401132 2011 UF_{316}	17.8	X	344.11028	275.73990	40.38465	7.37032	0.1977633	0.28076331	2.3098076	21	7 25.3	19.4
401133 2011 UE_{317}	17.8	X	339.41532	272.70068	47.68639	9.34032	0.2388883	0.28160621	2.3051962	21	7 14.4	19.3
401134 2011 UX_{326}	17.2	X	85.48356	154.01098	233.32651	5.09114	0.1759925	0.22224930	2.6992459	21	—	—
401135 2011 UN_{336}	18.1	X	282.43566	152.33049	237.42442	1.88251	0.2233906	0.27979951	2.3151089	21	7 9.9	20.8
401136 2011 UN_{338}	18.0	X	290.39523	170.95257	154.54005	6.11077	0.1702385	0.27390111	2.3482276	21	4 30.9	21.0
401137 2011 UL_{361}	16.7	X	18.40676	250.61203	215.84475	13.30877	0.0536439	0.22844485	2.6502192	21	—	—
401138 2011 UC_{371}	17.9	X	20.77712	194.48371	57.90002	12.87573	0.2125381	0.27734258	2.3287615	21	7 8.8	19.7
401139 2011 UB_{376}	17.9	X	323.76891	319.84320	21.05924	5.14694	0.1702155	0.28124353	2.3071776	21	7 20.4	19.9
401140 2011 UW_{379}	17.3	X	248.84428	117.32466	239.74396	8.73197	0.1298685	0.27086090	2.3657663	21	4 26.1	20.6
401141 2011 UP_{384}	17.2	X	25.42546	305.78748	299.52326	6.22348	0.0890446	0.26639015	2.3921621	21	6 23.9	19.7
401142 2011 UX_{386}	16.2	X	99.45179	233.15311	94.58266	10.62453	0.1565451	0.21504925	2.7591635	21	—	—
401143 2011 UL_{398}	16.4	X	234.24998	331.15249	235.12168	8.77406	0.0581764	0.21603729	2.7507444	21	—	—
401144 2011 UL_{399}	17.6	X	298.36456	209.57881	97.39003	2.33559	0.1914379	0.26866280	2.3786526	21	4 11.8	20.6
401145 2011 UU_{404}	16.7	X	33.17363	318.16220	107.97920	6.16793	0.1353332	0.22211483	2.7003352	21	—	—
401146 2011 VD_{9}	16.8	X	283.60080	140.84832	227.25715	23.98332	0.2946664	0.27624544	2.3349234	21	5 30.3	20.1
401147 2011 VY_{10}	17.8	X	289.12470	292.05197	19.93312	1.56814	0.1891693	0.26746346	2.3857581	21	4 6.3	20.7
401148 2011 VO_{11}	16.3	X	322.59649	167.58711	244.40359	11.00385	0.0744267	0.19122053	2.9838687	21	10 25.4	20.1
401149 2011 VK_{12}	16.7	X	337.55512	337.99856	240.16143	7.29038	0.1187698	0.23961739	2.5671850	21	2 16.4	19.9
401150 2011 VH_{13}	16.9	X	173.62778	87.86594	225.77198	8.11303	0.0488503	0.22702126	2.6612869	21	—	—
401151 2011 VP_{13}	18.3	X	21.62226	127.18850	216.19395	3.61471	0.2141949	0.29928321	2.2135083	21	12 8.8	20.6
401152 2011 VJ_{16}	17.6	X	276.46799	277.56262	51.35787	5.31742	0.2472698	0.26901813	2.3765576	21	4 9.1	21.1
401153 2011 WQ_{1}	16.6	X	199.97400	247.24378	71.05416	13.44960	0.1758402	0.23565183	2.5959053	21	1 28.2	21.0
401154 2011 WD_{2}	15.7	X	19.21508	254.01081	246.54683	20.51422	0.0992721	0.22750417	2.6575196	21	1 11.6	19.2
401155 2011 WB_{4}	17.5	X	338.89119	157.46251	30.64543	2.33530	0.0438589	0.23542970	2.5975379	21	1 25.4	20.9
401156 2011 WF_{15}	17.1	X	130.91458	119.55356	316.69743	4.97347	0.1606839	0.24511079	2.5286832	21	4 10.1	20.8
401157 2011 WQ_{16}	16.3	X	33.46012	227.49139	269.06890	10.95720	0.0391187	0.23140805	2.6275465	21	1 31.2	19.8
401158 2011 WP_{27}	17.2	X	256.21688	288.01344	118.06236	6.69816	0.1716739	0.27343395	2.3509015	21	7 6.9	20.3
401159 2011 WR_{35}	15.7	X	279.36391	359.72616	73.86654	15.17131	0.0975411	0.18319364	3.0704058	21	9 28.1	20.1
401160 2011 WY_{43}	15.8	X	310.17394	182.04313	251.30246	10.47475	0.0696587	0.19111910	2.9849243	21	11 4.4	19.7
401161 2011 WK_{48}	16.6	X	105.89162	308.11319	91.25798	12.42966	0.0979674	0.22079737	2.7110662	21	1 20.5	20.2
401162 2011 WN_{53}	17.9	X	263.62482	0.80887	37.95701	3.03797	0.2192991	0.27544432	2.3394485	21	6 29.5	21.1
401163 2011 WU_{53}	15.9	X	283.72080	190.82769	241.61315	8.24539	0.1163246	0.18367813	3.0650043	21	9 17.2	20.1
401164 2011 WV_{53}	17.2	X	287.46222	299.51264	56.97273	6.66197	0.1464018	0.27585198	2.3371431	21	6 11.2	20.0
401165 2011 WX_{54}	17.2	X	93.45498	298.56932	68.16986	6.64680	0.0570342	0.22131250	2.7068577	21	—	—
401166 2011 WY_{54}	17.1	X	26.61966	43.06249	215.21844	6.24960	0.0793874	0.27383839	2.3485862	21	7 13.5	19.7
401167 2011 WZ_{54}	17.0	X	8.80389	122.13694	54.91070	11.22713	0.0575630	0.24298070	2.5434402	21	2 24.8	20.3
401168 2011 WJ_{59}	17.2	X	281.61756	221.34757	84.35322	6.03315	0.1195123	0.25450603	2.4660621	21	4 3.2	20.6
401169 2011 WE_{60}	17.3	X	69.18159	50.84975	90.97885	4.84530	0.0809479	0.24368254	2.5385542	21	4 9.1	20.3
401170 2011 WQ_{63}	16.0	X	269.89772	183.08435	255.04787	6.63110	0.0959721	0.18054738	3.1003347	21	9 8.9	20.4
401171 2011 WD_{65}	16.2	X	14.58273	290.32055	76.45444	12.84424	0.1215310	0.19344228	2.9609776	21	11 22.6	19.8
401172 2011 WS_{65}	16.6	X	298.32430	15.38719	47.96574	3.17526	0.1086507	0.18363143	3.0655239	21	10 2.6	20.6
401173 2011 WH_{70}	18.0	X	325.83664	300.05124	47.99795	6.86699	0.2151444	0.28350864	2.2948723	21	8 1.7	19.7
401174 2011 WM_{70}	18.2	X	300.30795	125.57540	264.51191	2.26150	0.2167727	0.28384645	2.2930511	21	8 10.7	20.3
401175 2011 WV_{88}	16.4	X	308.45416	288.41351	259.09111	12.02192	0.1544851	0.21702681	2.7423768	21	—	—
401176 2011 WN_{94}	17.3	X	13.66743	310.93376	229.34900	8.22147	0.1052628	0.23881403	2.5729390	21	2 24.4	20.4
401177 2011 WT_{96}	17.2	X	97.67618	67.04841	213.96698	6.05039	0.1439367	0.29656232	2.2270266	21	12 5.3	20.4
401178 2011 WF_{97}	16.8	X	295.55960	287.99797	241.33799	3.75880	0.1318682	0.21311096	2.7758683	21	—	—
401179 2011 WA_{98}	17.1	X	84.55858	276.33064	88.12534	9.54624	0.1790962	0.21602234	2.7508713	21	—	—
401180 2011 WF_{99}	15.8	X	171.25434	340.29460	250.78892	15.56380	0.0353169	0.19667312	2.9284605	21	12 2.9	19.8
401181 2011 WL_{102}	16.7	X	201.93954	190.93725	87.05938	8.13014	0.1615208	0.22398836	2.6852563	21	—	—
401182 2011 WD_{103}	15.8	X	248.87741	209.15663	258.21131	10.88637	0.0462983	0.18402636	3.0611365	21	9 25.0	20.3
401183 2011 WE_{103}	15.6	X	111.46050	324.26701	263.63234	9.94903	0.0521312	0.17929509	3.1147543	21	9 15.8	20.3
401184 2011 WM_{104}	16.4	X	235.88451	62.76032	61.69311	11.79166	0.0494825	0.18473720	3.0532789	21	10 10.7	20.9
401185 2011 WE_{108}	16.5	X	185.37363	311.10132	223.04794	3.40865	0.0787539	0.18276579	3.0751958	21	10 6.0	21.1
401186 2011 WJ_{109}	17.3	X	281.62396	75.78315	233.63415	5.81871	0.1176792	0.25623519	2.4549550	21	4 2.9	20.7
401187 2011 WS_{113}	16.8	X	112.42892	96.36525	287.88476	4.85660	0.0183476	0.22179984	2.7028912	21	—	—
401188 2011 WV_{115}	17.6	X	298.52844	312.83030	50.65383	3.03130	0.2197011	0.27824597	2.3237182	21	6 26.5	19.9
401189 2011 WA_{120}	17.3	X	282.61883	43.82059	4.95385	2.57885	0.2199079	0.28098678	2.3085828	21	8 9.5	19.8
401190 2011 WP_{120}	17.2	X	331.60300	111.69950	250.88195	5.33041	0.1928765	0.28404013	2.2920086	21	9 8.4	18.8
401191 2011 WL_{125}	17.4	X	213.11327	95.70141	308.52269	5.22306	0.1521743	0.26220098	2.4175744	21	5 20.0	21.2
401192 2011 WN_{127}	18.0	X	339.36185	228.01038	85.76115	3.95849	0.2463775	0.27995503	2.3142514	21	6 28.1	19.1
401193 2011 WD_{134}	16.8	X	221.43188	32.30737	91.56576	4.00041	0.0840050	0.17862160	3.1225788	21	9 15.5	21.4
401194 2011 WX_{137}	17.4	X	112.59652	218.94250	222.56629	3.22645	0.0860918	0.23942306	2.5685739	21	3 17.5	20.7
401195 2011 WJ_{139}	16.4	X	284.29961	353.46618	254.81607	11.37150	0.1172405	0.23290021	2.6163116	21	1 20.2	20.3
401196 2011 WO_{139}	16.5	X	21.99636	198.23206	271.49386	8.00266	0.1009584	0.21583195	2.7524888	21	—	—
401197 2011 WQ_{142}	16.5	X	208.51341	191.71597	58.14228	3.48108	0.0133827	0.21923414	2.7239382	21	—	—
401198 2011 WS_{145}	17.1	X	264.08633	80.81008	295.67502	5.57340	0.1454462	0.26749644	2.3855620	21	6 8.9	20.3
401199 2011 WJ_{153}	16.5	X	192.86094	175.82168	119.00062	15.16580	0.1014827	0.22501313	2.6770972	21	—	—
401200 2011 YC_{1}	15.7	X	322.87795	88.72199	297.97053	8.59424	0.0807912	0.17705444	3.1409776	21	9 18.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401201 2011 YR_{1}	16.3	X	13.91312	75.20405	250.18959	24.15976	0.2000166	0.28649887	2.2788764	21	10 18.1	18.9
401202 2011 YD_{7}	15.9	X	108.46891	330.50013	272.94612	8.39412	0.0727204	0.18222251	3.0813051	21	10 5.1	20.6
401203 2011 YF_{7}	16.8	X	208.53290	272.97989	58.05127	6.76068	0.1896376	0.24200244	2.5502899	21	2 19.3	21.1
401204 2011 YC_{8}	17.0	X	6.46455	207.20967	258.83095	5.55395	0.0994232	0.20948663	2.8077935	21	—	—
401205 2011 YE_{13}	16.6	X	25.25810	24.05933	82.18936	7.14029	0.0406868	0.21474370	2.7617801	21	—	—
401206 2011 YU_{19}	16.1	X	320.09885	273.39004	115.97244	13.07698	0.0786050	0.17394125	3.1783447	21	9 27.8	20.4
401207 2011 YN_{20}	16.8	X	113.01543	156.73034	288.60313	14.20801	0.0810621	0.23312125	2.6146575	21	3 15.9	20.7
401208 2011 YA_{25}	16.3	X	184.59367	276.95021	106.96016	15.44957	0.1177529	0.23907393	2.5710739	21	4 6.8	20.6
401209 2011 YO_{26}	15.5	X	216.98761	30.39117	136.57097	16.09613	0.2160998	0.17520199	3.1630790	21	10 24.2	20.9
401210 2011 YD_{32}	15.8	X	338.37727	241.62288	118.08006	12.76939	0.0728675	0.17365655	3.1818175	21	9 15.8	20.1
401211 2011 YL_{37}	17.2	X	135.16557	159.41382	273.76119	2.42991	0.1868960	0.23751486	2.5823128	21	4 15.6	21.2
401212 2011 YZ_{37}	15.6	X	338.04929	256.73418	133.13775	10.79717	0.1119730	0.17804447	3.1293229	21	10 24.3	19.6
401213 2011 YY_{42}	17.2	X	134.40847	16.67866	30.59332	3.01454	0.1000941	0.23360383	2.6110554	21	3 5.5	20.9
401214 2011 YF_{44}	15.5	X	332.34268	258.97383	120.80002	22.74644	0.1318295	0.17711858	3.1402193	21	10 5.5	19.7
401215 2011 YM_{44}	16.9	X	59.93896	286.37350	148.39561	4.03489	0.0759750	0.21529416	2.7570706	21	—	—
401216 2011 YF_{45}	16.3	X	143.40356	255.71029	125.91693	15.85980	0.0451765	0.22403913	2.6848507	21	2 5.8	19.9
401217 2011 YD_{46}	15.7	X	189.29170	97.71950	95.41231	15.17512	0.0820048	0.17801316	3.1296899	21	11 7.6	20.7
401218 2011 YW_{57}	16.7	X	263.90814	65.06226	293.65885	6.87384	0.1881866	0.25731327	2.4480931	21	5 8.6	20.4
401219 2011 YF_{59}	16.5	X	186.16095	248.90525	115.23491	13.05813	0.1205831	0.23212858	2.6221064	21	3 12.3	20.7
401220 2011 YG_{64}	16.0	X	68.56708	256.71021	110.33960	27.75238	0.1683560	0.20097338	2.8865363	21	—	—
401221 2011 YD_{67}	15.8	X	166.99131	140.07725	92.19565	9.60371	0.1122827	0.18139884	3.0906255	21	11 26.5	20.7
401222 2011 YG_{69}	16.2	X	266.00830	229.61585	57.49499	12.90970	0.0849714	0.23957655	2.5674767	21	3 1.7	20.1
401223 2011 YA_{71}	15.7	X	198.23761	84.59753	114.71949	21.46913	0.1226728	0.18452153	3.0556576	21	11 23.1	20.8
401224 2011 YK_{77}	16.7	X	183.12047	217.71305	114.91060	11.63778	0.1145414	0.23372915	2.6101219	21	1 25.1	20.7
401225 2012 AR_{4}	16.1	X	171.98579	124.27255	271.67458	13.45558	0.1651353	0.23711967	2.5851813	21	3 28.1	20.5
401226 2012 AE_{6}	17.5	X	23.53565	243.78388	125.09186	6.16769	0.2382542	0.29609006	2.2293940	21	—	—
401227 2012 AN_{7}	16.0	X	259.95281	287.81411	248.68314	8.10851	0.0254617	0.19717843	2.9234552	21	—	—
401228 2012 AL_{8}	16.6	X	106.15450	131.47702	305.08682	5.14802	0.0310652	0.22709555	2.6607065	21	2 23.9	20.2
401229 2012 AS_{9}	17.0	X	215.32778	98.24933	270.78173	7.97042	0.1714607	0.24278963	2.5447745	21	4 5.5	21.4
401230 2012 AN_{13}	16.1	X	326.35421	283.24094	125.56629	10.98649	0.1143073	0.18198807	3.0839508	21	10 30.7	20.0
401231 2012 AK_{14}	16.5	X	348.41213	258.33849	283.62122	6.82743	0.1461472	0.22100181	2.7093939	21	1 19.0	19.6
401232 2012 AC_{17}	15.6	X	325.10728	324.57873	135.90259	17.59196	0.0379539	0.18823057	3.0153839	21	12 31.6	19.9
401233 2012 AW_{18}	15.7	X	199.52860	271.77067	292.13234	9.57368	0.0789734	0.18192999	3.0846071	21	11 24.7	20.4
401234 2012 AM_{23}	16.7	X	159.38168	15.36027	319.36395	5.05626	0.0333962	0.21544414	2.7557909	21	—	—
401235 2012 AH_{24}	15.8	X	163.36775	351.06422	223.63323	8.16774	0.0482375	0.17462398	3.1700549	21	10 31.7	20.6
401236 2012 BH_{5}	15.9	X	109.13754	306.09078	305.45948	8.89833	0.1270263	0.17089597	3.2159911	21	10 19.3	21.0
401237 2012 BM_{6}	17.2	X	226.13045	49.18610	320.85506	2.13910	0.1066463	0.24581793	2.5238314	21	4 22.4	21.0
401238 2012 BW_{9}	15.8	X	278.83205	290.17700	166.97810	10.42836	0.0133281	0.17219229	3.1998301	21	10 30.6	20.4
401239 2012 BA_{18}	15.9	X	292.07038	307.99935	108.55859	17.19532	0.2429246	0.17386985	3.1792148	21	8 27.4	20.2
401240 2012 BR_{20}	16.8	X	149.98447	296.02130	129.77154	15.54552	0.1047005	0.23876626	2.5732822	21	4 21.6	20.9
401241 2012 BQ_{22}	15.9	X	171.09513	301.61274	272.60379	11.16285	0.1273294	0.17689780	3.1428315	21	11 4.6	21.0
401242 2012 BD_{24}	15.8	X	38.90314	325.04058	48.13564	8.82332	0.0655473	0.18454090	3.0554437	21	12 22.4	20.0
401243 2012 BR_{24}	15.9	X	172.70798	79.02811	131.25610	13.78061	0.0882511	0.17761647	3.1343481	21	11 9.9	21.0
401244 2012 BR_{34}	15.9	X	264.08684	217.39400	290.89600	11.17534	0.0627579	0.18266150	3.0763662	21	12 5.5	20.2
401245 2012 BC_{36}	17.2	X	138.34996	102.25269	270.93210	4.38904	0.0294226	0.22001679	2.7174747	21	1 17.5	20.8
401246 2012 BA_{48}	16.0	X	82.18979	108.20839	316.31716	12.67824	0.2013483	0.22090129	2.7102159	21	2 2.5	19.0
401247 2012 BM_{52}	16.7	X	169.16011	267.96572	144.04310	27.92333	0.1516117	0.23780859	2.5801861	21	4 29.1	21.4
401248 2012 BC_{56}	15.5	X	240.76998	35.57599	141.45806	27.82199	0.0490069	0.18111481	3.0938559	21	12 18.2	20.4
401249 2012 BV_{62}	16.8	X	274.63942	356.96931	159.38473	4.44723	0.0241316	0.19391210	2.9561929	21	—	—
401250 2012 BE_{63}	17.0	X	259.88776	17.29327	251.08992	3.92709	0.0692040	0.22071874	2.7117100	21	1 27.0	20.9
401251 2012 BW_{73}	16.2	X	183.66195	314.92362	259.61654	3.34463	0.0751231	0.18062496	3.0994469	21	11 21.8	21.0
401252 2012 BB_{78}	18.0	X	14.04734	101.47607	279.90796	3.91097	0.2203390	0.29451623	2.2373292	21	—	—
401253 2012 BY_{79}	16.5	X	98.20910	335.33513	321.10569	9.49560	0.0558382	0.18198693	3.0839636	21	11 26.9	21.2
401254 2012 BW_{84}	15.8	X	119.32905	4.17972	320.19877	10.83565	0.1317834	0.19658641	2.9293216	21	—	—
401255 2012 BD_{88}	15.9	X	243.59775	155.97673	354.15453	8.34976	0.0348769	0.17525673	3.1624203	21	11 12.9	20.4
401256 2012 BH_{88}	16.5	X	297.93637	62.95540	39.68687	3.46576	0.0556781	0.18528772	3.0472280	21	11 25.3	20.5
401257 2012 BW_{90}	16.4	X	105.04129	278.64707	133.42977	17.80067	0.0943590	0.21820345	2.7325093	21	2 3.7	20.0
401258 2012 BH_{92}	16.1	X	107.12490	224.06363	137.27926	16.06503	0.1524293	0.20333761	2.8641180	21	—	—
401259 2012 BG_{93}	16.3	X	126.16472	183.73177	115.56647	10.45194	0.1179408	0.18898473	3.0073564	21	—	—
401260 2012 BJ_{99}	16.0	X	334.11311	254.99648	128.47339	15.92797	0.0894477	0.17268008	3.1938012	21	10 11.3	20.3
401261 2012 BK_{105}	15.6	X	184.08199	308.46447	259.34779	8.17483	0.0426312	0.17544796	3.1601218	21	11 14.8	20.2
401262 2012 BV_{110}	15.6	X	244.90869	182.62518	329.21641	9.95829	0.0704721	0.17862238	3.1225696	21	11 11.4	20.3
401263 2012 BD_{112}	15.8	X	28.36781	87.55686	319.40108	7.72266	0.0860156	0.19202486	2.9755306	21	—	—
401264 2012 BA_{123}	16.0	X	132.06328	155.66099	129.10785	13.34987	0.1813862	0.18409657	3.0603581	21	12 25.9	21.2
401265 2012 BR_{130}	15.6	X	68.66000	295.67302	48.41819	9.68065	0.0968674	0.18642976	3.0347708	21	12 27.9	20.1
401266 2012 BZ_{131}	15.7	X	235.77676	246.36877	267.41123	9.90595	0.1229268	0.17902310	3.1179083	21	10 28.3	20.5
401267 2012 BF_{133}	15.5	X	311.98857	277.96428	141.44710	12.71799	0.1428244	0.17747742	3.1359850	21	10 17.7	19.5
401268 2012 BG_{143}	16.3	X	166.35744	19.05545	232.41836	9.66044	0.0725980	0.18777780	3.0202291	21	12 18.6	20.9
401269 2012 BE_{144}	15.5	X	177.87097	328.36017	266.62126	12.50970	0.1933634	0.18218381	3.0817414	21	12 5.0	20.6
401270 2012 CY_{9}	15.7	X	346.34145	275.89024	147.98750	10.74995	0.0090675	0.18340775	3.0680159	21	12 13.2	20.1
401271 2012 CX_{10}	15.7	X	62.44081	340.64001	329.04667	10.22517	0.0517015	0.17160331	3.2071475	21	10 27.4	20.4
401272 2012 CG_{11}	16.2	X	71.42894	25.99599	332.76816	9.55378	0.0826556	0.19021468	2.9943784	21	—	—
401273 2012 CY_{14}	16.2	X	94.91423	347.58346	322.48575	9.78223	0.0486243	0.18001408	3.1064550	21	12 9.5	20.9
401274 2012 CY_{24}	15.7	X	73.76294	65.24186	262.38183	6.59481	0.1577205	0.17868595	3.1218290	21	12 19.9	20.4
401275 2012 CO_{25}	16.5	X	280.34245	279.31877	198.75092	4.65076	0.0977715	0.18024316	3.1038224	21	11 15.7	20.5
401276 2012 CX_{38}	15.8	X	281.91911	351.97609	138.58286	10.37677	0.0249978	0.18513543	3.0488989	21	12 13.3	20.1
401277 2012 CG_{41}	15.5	X	23.16968	77.07195	317.37861	10.85471	0.0802736	0.18705318	3.0280240	21	—	—
401278 2012 CL_{41}	17.1	X	146.66718	89.04057	326.27129	7.49184	0.1512708	0.23305816	2.6151293	21	3 30.6	21.1
401279 2012 CD_{45}	15.5	X	22.46093	230.47421	153.10819	16.34626	0.0509974	0.17834168	3.1258453	21	12 13.4	20.0
401280 2012 CX_{52}	16.0	X	337.02164	346.83788	116.96971	11.78413	0.0950236	0.19229420	2.9727514	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401281 2012 CU_{53}	15.5	X	307.13552	319.88463	122.18590	12.49478	0.0335616	0.17794352	3.1305064	21	11 17.2	20.0
401282 2012 DD_{5}	16.1	X	80.35408	193.35259	152.24576	11.47633	0.0958250	0.18572205	3.0424754	21	—	—
401283 2012 DN_{11}	16.0	X	190.59238	273.49033	294.96573	8.22230	0.0335576	0.18228238	3.0806304	21	11 24.1	20.5
401284 2012 DC_{19}	15.6	X	199.63792	282.74543	268.31765	10.11524	0.0835181	0.17296536	3.1902885	21	11 7.4	20.5
401285 2012 DZ_{26}	15.4	X	160.90220	271.59729	357.85752	15.47447	0.0751475	0.17986296	3.1081948	21	—	—
401286 2012 DE_{32}	15.7	X	323.95248	283.29828	169.45638	15.90888	0.0976459	0.18123451	3.0924934	21	12 18.3	19.9
401287 2012 DA_{41}	15.7	X	19.52885	280.62032	105.49494	11.27199	0.1168089	0.17958704	3.1113776	21	12 19.3	19.8
401288 2012 DU_{44}	15.9	X	252.52737	70.12424	143.44223	9.54910	0.0585993	0.18719182	3.0265288	21	—	—
401289 2012 DB_{55}	15.9	X	157.62838	182.43998	129.44415	16.38766	0.1386744	0.20484459	2.8500538	21	—	—
401290 2012 DH_{57}	16.2	X	234.41728	24.69693	275.17902	2.63368	0.0786761	0.21264387	2.7799317	21	2 7.9	20.3
401291 2012 DU_{62}	15.8	X	191.43847	336.92963	3.80881	9.05576	0.1563904	0.21254254	2.7808153	21	2 18.8	20.3
401292 2012 DA_{80}	16.2	X	42.91348	287.71847	129.57282	2.91793	0.1021692	0.19568222	2.9383383	21	—	—
401293 2012 DF_{80}	15.1	X	4.16586	308.47962	358.15500	9.33681	0.0772969	0.14615561	3.5693767	21	8 13.5	19.8
401294 2012 DZ_{92}	17.1	X	181.21200	189.43888	163.12723	3.62547	0.1004814	0.21462050	2.7628369	21	2 17.6	21.2
401295 2012 FR	15.5	X	183.57511	101.19830	147.47130	13.74100	0.0568503	0.17974913	3.1095069	21	—	—
401296 2012 FW_{31}	15.7	X	348.85830	15.84554	52.73676	10.14914	0.0939914	0.17625756	3.1504376	21	12 23.1	19.7
401297 2012 FN_{42}	15.4	X	261.78940	174.66699	314.63408	12.21658	0.0822676	0.17050013	3.2209667	21	10 31.0	20.2
401298 2012 FW_{81}	15.8	X	291.69797	24.10069	113.86103	11.35830	0.2029821	0.18398575	3.0615869	21	12 14.9	19.4
401299 2012 GF_{34}	15.8	X	261.47640	279.30295	211.54394	10.60339	0.1340914	0.17034455	3.2229276	21	10 30.8	20.3
401300 2012 HQ_{31}	14.9	X	83.89443	342.21270	184.15933	4.09750	0.1526408	0.12423530	3.9777672	21	6 16.9	20.5
401301 2012 TE_{20}	18.1	X	39.91897	223.99580	238.79805	20.07142	0.1060376	0.37551043	1.9027777	21	—	—
401302 2012 TR_{187}	16.4	X	6.22626	353.63088	48.65083	13.69227	0.1579537	0.22695559	2.6618003	21	—	—
401303 2012 UR_{127}	17.8	X	132.86602	175.13902	185.98757	21.98182	0.0782996	0.37087177	1.9186107	21	—	—
401304 2012 UU_{127}	17.3	X	234.27271	342.77912	235.72577	20.18756	0.0563247	0.35704379	1.9678337	21	—	—
401305 2012 WU_{4}	17.0	X	358.59567	311.38428	250.99523	6.15215	0.0664314	0.27263653	2.3554833	21	2 27.6	19.7
401306 2012 WK_{24}	17.2	X	46.77564	114.65122	58.51440	6.94398	0.0847645	0.27593983	2.3366471	21	4 13.4	19.6
401307 2012 XM_{34}	17.7	X	29.95579	320.70605	248.02883	5.15433	0.1409377	0.27800055	2.3250856	21	5 6.9	19.5
401308 2012 XP_{51}	17.0	X	59.40980	316.82172	211.91832	12.23990	0.0991527	0.27328381	2.3517624	21	4 28.6	19.2
401309 2012 XS_{55}	17.4	X	325.26926	241.27872	294.90130	17.90121	0.0593283	0.36230576	1.9487340	21	—	—
401310 2012 XT_{80}	17.7	X	111.27620	3.32286	191.27580	7.18755	0.0831205	0.30259950	2.1973062	21	8 18.0	20.5
401311 2012 XT_{142}	17.8	X	17.92705	4.54467	101.87291	24.88558	0.0797872	0.35758430	1.9658502	21	—	—
401312 2012 XQ_{151}	17.5	X	61.02996	318.28557	223.35202	4.85018	0.1742802	0.26858603	2.3791058	21	6 2.8	19.9
401313 2012 XK_{156}	15.9	X	253.93688	279.37863	257.42227	10.33155	0.2330660	0.21705753	2.7421180	21	12 10.4	19.6
401314 2012 YK_{1}	16.3	X	211.06783	106.72267	136.41083	10.06607	0.1021515	0.21648620	2.7469404	21	—	—
401315 2013 AB_{1}	17.7	X	180.70114	82.07404	295.24986	17.43475	0.0843230	0.37980915	1.8883932	21	2 15.9	20.0
401316 2013 AU_{6}	16.1	X	338.73347	10.65806	89.01722	22.96127	0.0142788	0.22788172	2.6545835	21	—	—
401317 2013 AQ_{8}	16.8	X	285.59073	128.76888	86.65275	9.86915	0.1103077	0.23826838	2.5768657	21	—	—
401318 2013 AE_{11}	16.8	X	304.80802	57.64085	130.54648	9.21269	0.2301620	0.22697754	2.6616286	21	—	—
401319 2013 AP_{15}	15.1	X	129.39083	282.49997	284.50775	24.34323	0.2164780	0.17852806	3.1236694	21	9 12.1	20.9
401320 2013 AR_{18}	16.6	X	308.65766	38.24293	115.34167	22.37763	0.1131669	0.22507797	2.6765831	21	—	—
401321 2013 AA_{22}	15.6	X	83.92274	145.84482	89.76839	11.47726	0.0475368	0.17752884	3.1353794	21	9 1.7	20.2
401322 2013 AH_{22}	15.6	X	277.97625	254.32039	130.81631	12.66933	0.1051333	0.17433994	3.1734972	21	7 15.1	20.0
401323 2013 AY_{22}	17.1	X	24.45257	149.54539	134.11791	6.33007	0.1954478	0.28631989	2.2798260	21	9 9.6	19.0
401324 2013 AD_{33}	16.3	X	30.37803	16.30339	105.62685	28.27559	0.1289175	0.24229267	2.5482529	21	1 4.9	19.0
401325 2013 AK_{39}	17.4	X	142.31451	81.08188	118.90548	7.73998	0.0548573	0.30178515	2.2012573	21	10 8.3	20.3
401326 2013 AR_{40}	16.5	X	180.84850	353.33373	293.69593	8.57105	0.1593579	0.22437275	2.6821886	21	—	—
401327 2013 AG_{52}	16.4	X	31.50336	6.00959	74.28638	15.47693	0.1535679	0.23531315	2.5983955	21	—	—
401328 2013 AT_{54}	17.5	X	50.79027	78.17045	106.70539	5.80025	0.1296663	0.26615509	2.3935704	21	5 14.4	19.9
401329 2013 AD_{55}	16.8	X	167.09233	133.58994	74.31286	9.53651	0.1358878	0.19572793	2.9378808	21	10 31.8	21.6
401330 2013 AU_{55}	16.6	X	156.65872	245.74901	97.56269	16.17617	0.1767800	0.24572032	2.5244998	21	1 15.0	20.4
401331 2013 AD_{58}	17.2	X	344.68784	132.97822	89.98355	3.10081	0.1339180	0.25478775	2.4642439	21	3 6.4	19.9
401332 2013 AW_{58}	17.4	X	247.00299	66.56036	295.38892	7.00299	0.1299885	0.27576608	2.3376285	21	4 28.5	20.8
401333 2013 AL_{68}	15.7	X	172.00693	229.87584	287.72446	15.41496	0.1578007	0.17908550	3.1171840	21	8 26.2	21.0
401334 2013 AA_{73}	17.5	X	159.38836	307.48256	111.12917	24.19207	0.1103032	0.38406527	1.8744162	21	4 15.9	20.4
401335 2013 AA_{75}	17.7	X	101.93566	276.43544	320.94968	5.18265	0.1132292	0.29824862	2.2186243	21	10 8.2	20.7
401336 2013 AU_{78}	16.8	X	351.73571	30.51047	270.55488	10.77953	0.0808294	0.28764118	2.2728390	21	7 16.7	19.0
401337 2013 AM_{83}	16.2	X	346.84287	193.66003	262.25629	11.05826	0.1413218	0.22353724	2.6888679	21	—	—
401338 2013 AU_{83}	17.2	X	116.17762	59.83658	89.98675	3.83076	0.0768682	0.27632927	2.3344511	21	6 21.6	20.2
401339 2013 AE_{85}	17.8	X	235.05045	280.10352	62.92853	2.38858	0.0342650	0.26744018	2.3858966	21	4 1.6	20.9
401340 2013 AF_{89}	16.6	X	185.27993	102.73096	91.04446	8.59452	0.0688437	0.19726841	2.9225661	21	11 4.6	21.0
401341 2013 AH_{89}	17.0	X	330.30689	59.66063	82.76977	6.97597	0.0517217	0.22915357	2.6447521	21	—	—
401342 2013 AU_{93}	17.0	X	276.67440	12.84658	151.76231	1.90583	0.0902242	0.21668698	2.7452433	21	—	—
401343 2013 AK_{100}	16.3	X	238.52882	270.99526	309.30771	13.83620	0.2605740	0.21698716	2.7427108	21	—	—
401344 2013 AY_{101}	17.6	X	112.96761	103.53077	72.71516	8.01372	0.0671239	0.28457493	2.2891362	21	7 25.8	20.5
401345 2013 AJ_{103}	15.6	X	336.86924	244.58548	95.55717	10.73239	0.0962560	0.17760719	3.1344573	21	8 16.3	19.6
401346 2013 AL_{104}	16.3	X	169.45243	19.25654	125.54160	12.62348	0.2277616	0.17552147	3.1592395	21	8 16.7	21.7
401347 2013 AY_{118}	16.5	X	297.17865	52.55941	90.27368	9.50690	0.1233830	0.21774605	2.7363345	21	—	—
401348 2013 AN_{119}	17.9	X	96.12711	292.97351	296.59058	5.29869	0.1221734	0.29803271	2.2196957	21	9 21.2	21.0
401349 2013 AG_{120}	16.9	X	245.70193	72.05105	116.10013	5.86835	0.0931754	0.21292480	2.7774861	21	—	—
401350 2013 AZ_{123}	17.6	X	39.78150	123.34479	65.90330	3.40519	0.1309028	0.26274065	2.4142627	21	4 29.1	19.7
401351 2013 AG_{147}	16.5	X	217.50779	340.39896	239.89453	12.91511	0.0657876	0.21779873	2.7358933	21	—	—
401352 2013 AY_{149}	16.5	X	227.16040	1.81090	253.14700	12.02995	0.1261199	0.23094606	2.6310494	21	—	—
401353 2013 AF_{166}	17.3	X	253.22762	114.46582	136.61451	27.58110	0.1452838	0.23668722	2.5883292	21	—	—
401354 2013 BR_{4}	16.5	X	37.39227	296.35965	130.33020	22.57949	0.0422767	0.22927515	2.6438170	21	—	—
401355 2013 BX_{9}	16.8	X	329.24208	52.08874	106.45997	13.49317	0.0994216	0.23375475	2.6099314	21	—	—
401356 2013 BT_{21}	17.1	X	8.10747	283.19944	326.99186	2.75764	0.1130499	0.27430063	2.3459469	21	5 28.3	19.2
401357 2013 BD_{23}	16.3	X	59.13927	280.53739	237.11659	12.26359	0.0781694	0.26026171	2.4295688	21	4 6.6	19.1
401358 2013 BM_{24}	16.9	X	343.50830	193.38859	293.98927	3.40198	0.0546874	0.23000339	2.6382335	21	—	—
401359 2013 BK_{32}	17.9	X	66.24000	217.03813	20.39765	5.04135	0.0688564	0.28944600	2.2633811	21	8 19.3	20.5
401360 2013 BE_{37}	17.6	X	68.44917	299.13326	294.52217	6.10952	0.0599386	0.28958859	2.2626381	21	8 11.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401361 2013 BD_{39}	18.2	X	101.09890	303.13690	259.47567	2.38372	0.0552574	0.28879634	2.2667742	21	8 12.7	21.1
401362 2013 BO_{39}	17.4	X	356.10282	334.93451	239.86469	1.86494	0.1619469	0.25456603	2.4656746	21	3 8.2	19.7
401363 2013 BZ_{39}	17.0	X	258.96234	97.49577	133.12101	8.07134	0.0777423	0.22992544	2.6388297	21	—	—
401364 2013 BF_{43}	16.7	X	221.91649	169.12972	110.22691	8.88263	0.1156333	0.23541749	2.5976276	21	—	—
401365 2013 BM_{45}	17.7	X	196.06461	266.88215	118.90132	24.46141	0.1528528	0.38502557	1.8712982	21	4 12.4	20.9
401366 2013 BF_{60}	16.5	X	291.59758	30.84267	112.11219	14.25756	0.0440807	0.21436309	2.7650482	21	—	—
401367 2013 BZ_{60}	17.5	X	4.44718	192.50440	31.66648	1.88632	0.1353753	0.25869469	2.4393702	21	4 11.3	19.7
401368 2013 BO_{63}	16.5	X	249.25835	286.65891	322.18752	10.29343	0.1674256	0.22690216	2.6622181	21	—	—
401369 2013 BP_{63}	17.7	X	89.54955	110.52947	130.13861	6.63073	0.0373614	0.29446722	2.2375774	21	9 22.5	20.4
401370 2013 BM_{66}	17.3	X	14.16090	175.95561	122.94030	9.77298	0.1947544	0.29540994	2.2328145	21	9 16.5	19.1
401371 2013 BR_{66}	17.8	X	66.79463	287.75420	280.93720	3.81706	0.1685040	0.27712583	2.3299756	21	7 22.0	20.4
401372 2013 BE_{70}	17.0	X	81.97337	113.94205	291.43167	16.82928	0.1157706	0.35347109	1.9810713	21	—	—
401373 2013 BC_{76}	17.5	X	147.20316	228.77242	331.70396	5.23186	0.0756465	0.30004726	2.2097489	21	10 8.6	20.5
401374 2013 BR_{77}	17.6	X	17.43702	218.87235	23.93793	1.50726	0.1466025	0.27064313	2.3670352	21	6 6.7	19.4
401375 2013 CC	18.0	X	141.62614	294.33711	110.82205	23.11730	0.1061288	0.37241015	1.9133234	21	2 20.7	20.2
401376 2013 CE	17.5	X	195.89629	235.97779	179.35668	5.40493	0.0816722	0.27556156	2.3387850	21	5 20.1	20.8
401377 2013 CN_{5}	16.6	X	52.45642	150.27788	282.10372	7.52591	0.0540185	0.23318614	2.6141724	21	—	—
401378 2013 CL_{8}	17.5	X	64.24675	64.99728	157.58695	2.86058	0.1032801	0.28028910	2.3124121	21	7 27.5	20.0
401379 2013 CY_{11}	17.6	X	347.08397	172.53116	92.90205	4.22816	0.0693258	0.26879213	2.3778896	21	5 17.3	20.0
401380 2013 CH_{18}	16.5	X	325.97166	40.64008	137.22717	8.81474	0.1300776	0.22890305	2.6466814	21	—	—
401381 2013 CO_{18}	17.4	X	44.84688	112.25964	73.12831	3.05043	0.1089402	0.25682664	2.4511845	21	5 1.4	19.9
401382 2013 CV_{19}	15.8	X	233.13474	98.76244	62.33174	17.63631	0.1056575	0.19785458	2.9167910	21	11 12.8	20.0
401383 2013 CC_{24}	17.2	X	78.49908	169.42437	349.13498	6.54522	0.1210342	0.26270125	2.4145041	21	5 16.8	20.1
401384 2013 CV_{26}	16.8	X	13.21023	277.21113	313.89371	14.23125	0.1045936	0.26467870	2.4024630	21	5 2.6	19.7
401385 2013 CO_{28}	17.0	X	120.08934	255.39684	128.82122	12.07333	0.2057983	0.23570070	2.5955464	21	1 31.4	20.5
401386 2013 CM_{32}	17.7	X	28.38200	161.12089	84.68564	3.53275	0.1554432	0.26727928	2.3868540	21	7 7.5	19.6
401387 2013 CT_{32}	15.9	X	45.32561	343.02543	110.62154	30.58062	0.0872207	0.23429523	2.6059160	21	—	—
401388 2013 CH_{33}	17.3	X	103.51895	2.41190	235.71296	6.47974	0.1111301	0.29606807	2.2295044	21	10 11.3	20.4
401389 2013 CB_{34}	16.8	X	260.49473	280.60465	317.26537	12.70985	0.2194623	0.22621273	2.6676244	21	—	—
401390 2013 CT_{37}	16.1	X	174.61431	310.80918	213.91301	13.91830	0.1659635	0.17924740	3.1153067	21	9 8.8	21.4
401391 2013 CD_{38}	16.5	X	288.05762	262.47252	298.96801	9.12368	0.1537004	0.22578546	2.6709888	21	—	—
401392 2013 CN_{38}	15.8	X	281.56087	318.13593	279.58242	16.73367	0.1497293	0.23582667	2.5946221	21	1 3.2	19.7
401393 2013 CN_{43}	17.3	X	29.71862	135.59545	104.96349	7.04655	0.1037811	0.27248204	2.3563735	21	6 25.5	19.4
401394 2013 CP_{43}	17.8	X	348.18106	268.49236	47.42005	4.44352	0.0553040	0.28703396	2.2760433	21	8 7.3	20.1
401395 2013 CN_{44}	16.6	X	130.43042	283.38537	338.02524	10.26350	0.0515212	0.19673209	2.9278753	21	11 21.4	21.2
401396 2013 CR_{45}	17.1	X	323.25605	150.91641	127.56879	7.17781	0.1006770	0.26301161	2.4126043	21	4 25.9	20.0
401397 2013 CR_{49}	17.2	X	85.08535	44.61481	5.81677	4.46245	0.1414098	0.23544872	2.5973980	21	1 6.9	20.1
401398 2013 CU_{50}	17.9	X	75.04699	322.93926	274.47350	4.88550	0.0675671	0.29019869	2.2594657	21	8 27.2	20.6
401399 2013 CR_{51}	17.1	X	251.92661	277.11757	327.77002	2.22197	0.1534044	0.22669896	2.6638087	21	—	—
401400 2013 CK_{54}	17.3	X	103.53249	259.86605	268.08018	5.05848	0.1182870	0.27488620	2.3426141	21	7 6.4	20.2
401401 2013 CL_{57}	16.0	X	147.46459	24.08547	214.71456	9.16073	0.1025727	0.19302092	2.9652851	21	11 16.4	20.6
401402 2013 CY_{57}	15.7	X	96.85315	102.41557	169.65754	17.06782	0.2092937	0.18062443	3.0994530	21	11 16.2	20.9
401403 2013 CK_{61}	15.9	X	127.65665	308.12094	304.86874	7.60292	0.0469872	0.19063911	2.9899325	21	11 7.3	20.4
401404 2013 CX_{61}	17.5	X	23.53033	158.95427	94.27118	3.07890	0.1883133	0.26921202	2.3754164	21	7 13.4	19.3
401405 2013 CA_{63}	16.3	X	112.31794	34.59449	300.12495	13.31393	0.0641511	0.21722068	2.7407448	21	—	—
401406 2013 CG_{63}	17.4	X	14.38190	236.60138	221.66729	4.98999	0.1719641	0.22933862	2.6433292	21	—	—
401407 2013 CL_{64}	16.9	X	131.41282	68.00570	271.48911	4.07962	0.0732779	0.22508034	2.6765643	21	—	—
401408 2013 CP_{64}	16.8	X	48.20921	273.08336	151.76348	12.54788	0.1466589	0.23034770	2.6356038	21	—	—
401409 2013 CO_{65}	16.9	X	253.03837	38.09181	168.29435	5.26106	0.0444973	0.21825051	2.7321165	21	—	—
401410 2013 CT_{65}	16.0	X	137.27264	223.20534	309.30015	7.59804	0.1147421	0.16803187	3.2524324	21	8 15.8	21.0
401411 2013 CR_{66}	16.2	X	136.72648	275.20575	323.41218	6.74550	0.0331022	0.18929621	3.0040566	21	10 29.9	20.7
401412 2013 CF_{67}	18.1	X	138.08252	236.10526	252.47808	2.05850	0.1760355	0.27568172	2.3381053	21	6 28.5	21.5
401413 2013 CB_{69}	17.5	X	45.87728	308.55931	304.67221	5.54982	0.0857129	0.28216859	2.3021322	21	8 10.2	20.0
401414 2013 CD_{70}	16.7	X	209.17863	135.07070	110.00887	4.75599	0.0301509	0.21632667	2.7482907	21	—	—
401415 2013 CP_{72}	16.9	X	270.65259	24.73642	147.58526	12.54933	0.0671961	0.21768867	2.7368153	21	—	—
401416 2013 CO_{73}	17.2	X	119.68354	306.15438	128.62888	2.10430	0.0526515	0.25941175	2.4348729	21	3 11.9	20.2
401417 2013 CP_{74}	16.7	X	267.31549	304.95354	306.78370	11.21805	0.2503191	0.22909123	2.6452319	21	1 1.8	21.2
401418 2013 CJ_{75}	16.3	X	13.54515	56.00967	31.78036	17.62721	0.1110812	0.22425305	2.6831429	21	—	—
401419 2013 CP_{77}	16.9	X	68.42479	258.83534	270.57632	6.02702	0.0611869	0.26474575	2.4020574	21	5 7.9	19.7
401420 2013 CJ_{81}	16.5	X	105.09224	28.23430	217.33290	7.99294	0.1222067	0.17916175	3.1162995	21	10 11.7	21.3
401421 2013 CM_{81}	17.1	X	290.81590	53.78493	213.98166	7.51300	0.2650106	0.24197976	2.5504493	21	2 2.7	21.3
401422 2013 CX_{81}	17.0	X	23.69052	170.55592	237.51172	5.71849	0.0274116	0.21111642	2.7933244	21	—	—
401423 2013 CX_{82}	17.3	X	334.98765	279.50009	301.38879	4.19933	0.0511968	0.24743867	2.5127985	21	2 26.6	20.3
401424 2013 CR_{85}	16.6	X	275.04794	129.10428	18.78580	5.02993	0.0995237	0.21316178	2.7754271	21	12 21.7	20.2
401425 2013 CB_{86}	16.2	X	225.53080	169.82075	95.94189	4.38481	0.0779180	0.22084680	2.7106617	21	—	—
401426 2013 CT_{95}	16.8	X	155.36372	327.25417	321.80449	9.27719	0.0949322	0.21258607	2.7804356	21	—	—
401427 2013 CW_{98}	16.5	X	159.31593	290.98355	317.04142	6.90021	0.0465761	0.20083009	2.8879091	21	12 9.9	20.9
401428 2013 CO_{101}	16.7	X	193.02434	117.46350	145.40923	6.19948	0.0218261	0.21808194	2.7335242	21	—	—
401429 2013 CE_{104}	17.0	X	198.20006	219.60701	73.51506	3.75428	0.0479839	0.22929897	2.6436339	21	—	—
401430 2013 CE_{107}	16.7	X	214.29742	118.93648	133.87647	3.91688	0.0428654	0.22047569	2.7137025	21	—	—
401431 2013 CX_{107}	17.4	X	348.57269	54.49338	146.83834	11.92671	0.0923274	0.24520728	2.5280198	21	2 16.6	20.1
401432 2013 CS_{108}	17.4	X	308.65193	325.98570	345.36527	7.84254	0.0658227	0.26974858	2.3722654	21	5 19.7	20.3
401433 2013 CN_{110}	16.4	X	229.97056	352.77102	129.65707	13.72900	0.1557820	0.18691020	3.0295681	21	9 17.9	21.2
401434 2013 CX_{110}	15.6	X	43.09475	186.86778	133.11402	17.09890	0.2337652	0.18602304	3.0391926	21	11 22.8	20.0
401435 2013 CL_{111}	17.6	X	10.13911	141.48729	113.38280	7.11786	0.0723942	0.27127526	2.3633566	21	6 10.4	20.1
401436 2013 CE_{116}	15.7	X	94.71065	183.61629	125.49368	6.70347	0.0498824	0.19761343	2.9191635	21	12 12.7	19.9
401437 2013 CJ_{122}	17.5	X	22.77264	39.65005	152.13274	1.68744	0.1267932	0.25332969	2.4736903	21	3 30.9	19.7
401438 2013 CT_{123}	16.9	X	299.41042	225.39201	350.43570	6.70274	0.1485285	0.23048706	2.6345413	21	—	—
401439 2013 CP_{126}	18.0	X	316.88004	237.47089	135.72523	7.42851	0.1822414	0.30121923	2.2040135	21	8 29.5	19.4
401440 2013 CJ_{130}	17.7	X	180.70467	328.43599	159.27460	7.58587	0.0521185	0.28597431	2.2816623	21	8 9.5	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401441 2013 CE_{131}	16.2	X	213.11622	175.28054	309.49232	4.63093	0.0851206	0.17892528	3.1190446	21	9 3.9	20.8
401442 2013 CM_{131}	17.5	X	21.83427	340.72630	297.17451	2.36097	0.1805016	0.27649599	2.3335126	21	8 18.9	19.4
401443 2013 CH_{132}	15.7	X	104.02972	348.06469	241.37494	6.32480	0.0736778	0.17131100	3.2107947	21	9 13.2	20.4
401444 2013 CT_{134}	16.1	X	348.94240	199.97683	151.28119	12.03212	0.0775134	0.17738590	3.1370636	21	9 18.6	20.1
401445 2013 CJ_{135}	17.3	X	283.78145	130.26677	97.07852	4.87227	0.0847807	0.24045436	2.5612243	21	—	—
401446 2013 CY_{135}	13.4	X	2.85504	277.34325	117.22747	24.25468	0.0424791	0.08275792	5.2151043	21	11 19.9	20.4
401447 2013 CG_{137}	16.9	X	7.21596	295.96883	158.87489	9.06324	0.1510414	0.22193814	2.7017682	21	—	—
401448 2013 CH_{137}	17.0	X	337.93598	48.07962	169.84375	5.60249	0.0979932	0.24453266	2.5326672	21	2 21.6	20.1
401449 2013 CJ_{137}	17.2	X	25.78343	52.70700	166.01780	5.80726	0.0761643	0.26114371	2.4240952	21	5 15.6	19.9
401450 2013 CR_{138}	16.7	X	106.66395	208.90334	145.72079	6.92623	0.0344602	0.21955297	2.7213005	21	—	—
401451 2013 CE_{139}	17.7	X	136.49563	90.22238	351.60176	6.34432	0.0883614	0.26775285	2.3840388	21	4 13.5	21.0
401452 2013 CL_{139}	16.3	X	11.13290	275.62662	110.34363	4.00654	0.0314048	0.19557327	2.9394296	21	12 1.5	20.3
401453 2013 CL_{147}	16.8	X	343.48925	336.01792	135.80548	6.61861	0.0603507	0.21750462	2.7383591	21	—	—
401454 2013 CE_{152}	16.8	X	101.02250	271.87522	140.07434	16.92636	0.1023603	0.23908714	2.5709792	21	1 25.1	20.1
401455 2013 CL_{156}	16.8	X	249.50830	133.48542	142.84321	7.37636	0.1892796	0.23096894	2.6308757	21	1 17.6	21.1
401456 2013 CA_{160}	16.3	X	278.61098	93.02275	346.27424	9.12592	0.0414560	0.18402184	3.0611866	21	10 1.2	20.6
401457 2013 CW_{161}	17.2	X	316.08914	1.13858	346.58520	6.69432	0.1412243	0.28217260	2.3021104	21	7 20.3	19.4
401458 2013 CM_{162}	15.5	X	117.12171	82.80475	161.84389	25.86203	0.2562641	0.17350701	3.1836455	21	11 5.5	21.3
401459 2013 CG_{164}	16.8	X	270.20465	272.11709	325.58553	2.94747	0.1259272	0.22557118	2.6726801	21	—	—
401460 2013 CE_{165}	17.7	X	324.73173	97.95508	165.80034	2.27128	0.1298929	0.25122504	2.4874867	21	4 1.0	20.5
401461 2013 CJ_{166}	16.1	X	91.02857	317.80070	15.18095	6.82899	0.0704318	0.20298118	2.8674699	21	—	—
401462 2013 CJ_{169}	17.4	X	141.44538	57.86302	34.57996	4.62019	0.0061042	0.26258284	2.4152300	21	4 26.5	20.1
401463 2013 CN_{169}	17.1	X	15.99148	207.65325	75.44398	3.53106	0.0748430	0.28190110	2.3035883	21	8 5.1	19.3
401464 2013 CC_{170}	17.1	X	72.49743	268.12156	164.42702	8.88100	0.0873612	0.23573182	2.5953180	21	1 8.5	20.2
401465 2013 CP_{172}	16.8	X	359.49753	280.96692	160.89747	6.50424	0.0193853	0.21129153	2.7917809	21	—	—
401466 2013 CQ_{173}	16.3	X	91.92924	127.58420	150.12448	1.17124	0.1632430	0.18063388	3.0993449	21	11 11.2	21.1
401467 2013 CZ_{173}	17.2	X	357.67582	136.13975	157.07188	6.72604	0.1102516	0.27512287	2.3412705	21	7 16.1	19.3
401468 2013 CS_{174}	16.7	X	45.31048	150.16180	270.74885	1.90051	0.0949167	0.22086493	2.7105133	21	—	—
401469 2013 CJ_{175}	17.2	X	333.65777	255.76653	310.72345	3.83367	0.1246702	0.23844934	2.5755617	21	1 29.1	20.2
401470 2013 CE_{182}	16.1	X	212.29244	330.99565	298.99958	8.20005	0.1177205	0.21941735	2.7224218	21	—	—
401471 2013 CA_{183}	17.5	X	189.84798	275.38398	96.80850	6.97523	0.0569927	0.25652144	2.4531283	21	3 20.1	21.0
401472 2013 CQ_{183}	16.8	X	32.93616	287.22790	167.87521	10.79947	0.1668740	0.23151212	2.6267590	21	—	—
401473 2013 CY_{187}	16.6	X	272.53779	324.74279	135.21284	11.01804	0.0667490	0.19297093	2.9657972	21	10 23.8	20.8
401474 2013 CG_{190}	17.7	X	288.23633	184.38880	259.21383	4.05331	0.0566589	0.30992979	2.1625218	21	11 9.7	19.9
401475 2013 CE_{192}	17.1	X	22.42429	95.70730	104.74252	8.57065	0.1568307	0.25645996	2.4535204	21	4 16.9	19.4
401476 2013 CP_{194}	17.5	X	27.86105	70.48418	24.08124	2.40683	0.0368987	0.22881039	2.6473959	21	—	—
401477 2013 CU_{195}	16.7	X	137.13485	161.22202	33.72331	1.27421	0.1147608	0.17441749	3.1725565	21	9 13.6	21.5
401478 2013 CG_{196}	16.3	X	151.29275	72.69323	130.96297	11.81895	0.0256115	0.18349579	3.0670344	21	10 10.7	20.9
401479 2013 CJ_{198}	15.9	X	73.21650	315.88877	341.55722	9.42445	0.0891043	0.18318685	3.0704817	21	11 2.1	20.4
401480 2013 CM_{204}	17.5	X	5.51211	177.27300	107.61726	7.59542	0.1291653	0.27973717	2.3154528	21	7 20.9	19.4
401481 2013 CT_{204}	16.9	X	162.73797	97.93547	85.98759	2.68003	0.1124343	0.18111410	3.0938640	21	9 26.5	21.7
401482 2013 CQ_{206}	17.4	X	97.22688	230.95225	185.85494	5.45560	0.0380686	0.23778725	2.5803404	21	1 16.9	20.7
401483 2013 CX_{209}	17.4	X	200.46922	192.01728	175.92284	6.55182	0.1313875	0.26437699	2.4042905	21	3 23.6	21.1
401484 2013 CW_{210}	16.1	X	161.61090	291.53449	242.61181	12.11373	0.1046362	0.17899394	3.1182469	21	9 6.5	21.2
401485 2013 DS_{1}	17.4	X	44.51931	94.52462	103.48409	4.78468	0.1785044	0.26681613	2.3896153	21	5 28.6	19.4
401486 2013 DB_{3}	16.5	X	287.72673	316.84322	282.88886	11.28904	0.1951192	0.23524245	2.5989160	21	1 7.4	20.3
401487 2013 DX_{4}	16.5	X	224.27820	91.07452	129.21766	4.40466	0.0348895	0.21269188	2.7795134	21	—	—
401488 2013 DT_{5}	17.4	X	89.72758	237.79421	156.43178	5.77496	0.0564789	0.22842810	2.6503488	21	—	—
401489 2013 DY_{5}	17.1	X	245.36117	216.87990	41.78293	6.53265	0.1830538	0.22131326	2.7068515	21	—	—
401490 2013 DV_{8}	17.4	X	8.40140	169.10882	156.17548	3.19802	0.2129614	0.28796027	2.2711597	21	10 16.5	19.0
401491 2013 DK_{15}	17.5	X	164.14243	213.34293	272.22578	5.52613	0.1649384	0.28281966	2.2985978	21	7 19.1	21.0
401492 2013 DB_{16}	16.5	X	27.00276	229.34300	283.20053	11.78639	0.0898288	0.24082257	2.5586130	21	2 8.3	19.5
401493 2013 DC_{16}	16.9	X	66.82924	278.31331	272.16272	10.26646	0.1088429	0.26407509	2.4061226	21	6 14.8	19.7
401494 2013 DG_{16}	15.0	X	113.74674	302.45768	266.26386	17.74245	0.1188787	0.16948764	3.2337817	21	8 27.9	20.3
401495 2013 EG_{3}	17.8	X	227.98296	238.44372	163.90615	6.47121	0.1179916	0.28050668	2.3112162	21	6 5.9	21.1
401496 2013 ER_{10}	16.1	X	163.67938	347.62519	186.28749	10.89715	0.0254876	0.17583917	3.1554330	21	9 11.7	20.8
401497 2013 EB_{13}	16.0	X	317.64497	224.08284	150.55722	8.63599	0.0150254	0.17213884	3.2004924	21	9 5.3	20.3
401498 2013 EY_{15}	17.4	X	334.45475	235.67626	46.60621	2.88060	0.1928650	0.25919343	2.4362399	21	5 3.5	19.7
401499 2013 EQ_{18}	17.3	X	51.30028	293.88985	303.33613	4.69840	0.0995564	0.27337974	2.3512122	21	7 28.3	19.7
401500 2013 EX_{18}	17.6	X	71.07564	215.27325	28.40631	1.99029	0.1339868	0.28058612	2.3107800	21	9 12.9	20.5
401501 2013 ER_{24}	16.9	X	272.69822	53.07895	157.24570	12.71337	0.1188572	0.21719646	2.7409486	21	—	—
401502 2013 ES_{28}	17.5	X	22.29173	44.21028	182.51670	14.85562	0.0508264	0.26503349	2.4003185	21	5 21.2	20.5
401503 2013 EY_{28}	16.5	X	359.52798	349.22277	181.00695	17.11763	0.1151535	0.23411615	2.6072447	21	1 19.5	19.9
401504 2013 ED_{29}	16.6	X	192.11178	317.94259	339.33142	1.52424	0.0615248	0.22114294	2.7082411	21	—	—
401505 2013 EW_{30}	16.6	X	199.42956	149.10979	158.20471	14.19627	0.1023489	0.22181022	2.7028068	21	1 11.0	20.9
401506 2013 ER_{31}	15.9	X	136.96530	131.55609	151.42025	8.13554	0.1217055	0.19169773	2.9789147	21	12 27.4	20.7
401507 2013 EE_{32}	16.6	X	182.14894	78.72384	161.79614	10.17988	0.0213839	0.19937410	2.9019520	21	12 28.1	20.9
401508 2013 EM_{33}	16.0	X	186.83287	163.35086	24.12350	10.43178	0.2100597	0.18366578	3.0651416	21	10 18.5	21.2
401509 2013 EP_{34}	16.6	X	141.62315	126.47712	139.45174	6.01777	0.1238951	0.19042497	2.9921736	21	12 12.4	21.4
401510 2013 EV_{34}	17.1	X	134.16518	81.40102	22.50650	6.63334	0.1017987	0.26155167	2.4215739	21	5 13.5	20.5
401511 2013 EY_{41}	17.8	X	286.58189	54.13816	333.05215	6.00928	0.1137889	0.28678309	2.2773705	21	8 2.7	20.3
401512 2013 EO_{51}	17.0	X	143.66120	329.40464	155.83174	8.62951	0.0631274	0.26862623	2.3788685	21	6 21.3	20.3
401513 2013 EP_{51}	16.8	X	275.39252	87.97084	137.11986	5.53003	0.1053074	0.22159609	2.7045477	21	—	—
401514 2013 EC_{58}	16.9	X	238.22473	287.62604	8.27272	4.62568	0.0554008	0.23576530	2.5950723	21	2 6.9	20.5
401515 2013 ES_{58}	17.6	X	276.53132	9.75012	25.22199	3.10170	0.0325371	0.28349129	2.2949659	21	8 12.6	20.3
401516 2013 EC_{64}	17.0	X	38.09407	281.23690	143.97767	4.57779	0.0858012	0.21769325	2.7367769	21	—	—
401517 2013 EU_{67}	16.3	X	165.62894	248.30196	34.92143	9.93580	0.1988564	0.19699505	2.9252692	21	—	—
401518 2013 ES_{68}	16.7	X	245.93574	285.58911	26.45824	7.50805	0.0514236	0.24227275	2.5483926	21	3 8.9	20.2
401519 2013 EF_{71}	16.8	X	238.20354	274.37480	339.12086	1.83509	0.0883007	0.22265501	2.6959660	21	—	—
401520 2013 EF_{74}	17.5	X	280.16246	126.59611	133.99658	4.54735	0.0989952	0.23728123	2.5840076	21	2 4.3	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401521 2013 EW_{74}	16.7	X	306.60600	319.13355	141.71338	5.87670	0.0782223	0.20009506	2.8949771	21	12 7.8	20.4
401522 2013 EX_{81}	17.3	X	359.80480	91.17767	171.82125	5.34683	0.1099017	0.26188465	2.4195208	21	6 3.8	19.8
401523 2013 EU_{86}	16.5	X	350.11503	79.29791	60.75662	6.94222	0.0213084	0.22033854	2.7148285	21	—	—
401524 2013 EJ_{88}	16.4	X	227.75982	299.96594	334.12599	9.97927	0.2056429	0.22211072	2.7003685	21	—	—
401525 2013 ED_{90}	16.5	X	276.08300	256.11043	324.30025	11.50733	0.1542171	0.21967047	2.7203300	21	—	—
401526 2013 EG_{90}	16.4	X	343.50558	341.55847	144.71823	12.61761	0.1271904	0.22413590	2.6840778	21	—	—
401527 2013 ET_{91}	15.8	X	123.90294	272.29335	327.04877	14.72031	0.2002555	0.17657508	3.1466597	21	10 21.3	21.3
401528 2013 EO_{92}	16.6	X	33.21582	224.20241	273.98697	10.32580	0.1444434	0.23746627	2.5826651	21	1 30.9	19.3
401529 2013 EO_{93}	17.2	X	7.07751	284.74053	221.59227	2.42323	0.1606338	0.22818322	2.6522446	21	—	—
401530 2013 ES_{93}	16.5	X	278.72612	101.58286	105.44714	12.31026	0.1575466	0.21989511	2.7184771	21	—	—
401531 2013 EQ_{94}	16.5	X	260.55474	218.39840	347.93995	8.94979	0.1205985	0.21468833	2.7622549	21	—	—
401532 2013 EP_{98}	17.2	X	339.97233	116.27205	88.15622	0.55473	0.0791292	0.23798203	2.5789323	21	2 11.4	20.4
401533 2013 EJ_{101}	15.5	X	269.79537	314.39706	129.85294	11.95238	0.0160071	0.17719580	3.1393069	21	10 5.9	20.0
401534 2013 EK_{101}	16.2	X	148.07762	162.15206	85.79074	9.49924	0.1663521	0.18515666	3.0486658	21	11 27.6	21.3
401535 2013 EY_{102}	15.5	X	109.51225	255.58440	45.75995	14.47413	0.2058273	0.18329939	3.0692249	21	12 26.3	20.8
401536 2013 ED_{104}	16.9	X	300.24649	81.42311	123.06676	13.70418	0.2170024	0.22680874	2.6629491	21	—	—
401537 2013 EQ_{105}	16.9	X	296.86567	58.95626	176.59761	10.97039	0.0490815	0.23433476	2.6056230	21	1 28.4	20.6
401538 2013 EO_{108}	16.9	X	155.26016	340.44888	290.00547	1.21497	0.0450714	0.20381512	2.8596428	21	—	—
401539 2013 EF_{109}	16.9	X	16.00251	222.61911	286.65292	2.75336	0.1622318	0.23745797	2.5827253	21	1 15.6	19.6
401540 2013 EE_{110}	15.0	X	336.45260	168.77167	66.06977	3.78374	0.1446916	0.12448399	3.9724678	21	3 30.2	20.0
401541 2013 EQ_{110}	16.4	X	303.20726	216.21499	45.78469	14.47825	0.1217536	0.24285095	2.5443461	21	3 9.8	20.0
401542 2013 ER_{110}	17.2	X	313.77835	325.69368	235.37066	6.87430	0.1350054	0.23204349	2.6227474	21	—	—
401543 2013 EU_{111}	16.5	X	333.25748	25.15089	164.39890	12.58108	0.1447086	0.22861605	2.6488960	21	1 5.0	20.2
401544 2013 ES_{112}	15.9	X	273.75345	150.97735	97.51822	11.69981	0.0962616	0.22965542	2.6408978	21	1 15.2	19.8
401545 2013 EG_{115}	15.9	X	187.07551	52.82045	99.63849	4.16381	0.0547724	0.17403344	3.1772221	21	9 14.6	20.6
401546 2013 ES_{120}	17.0	X	329.37527	250.50245	296.14960	2.18547	0.0206153	0.22722953	2.6596605	21	1 15.2	20.6
401547 2013 EQ_{122}	17.0	X	321.47022	16.98598	181.38474	5.00772	0.0739278	0.22973845	2.6402614	21	1 10.8	20.5
401548 2013 EF_{123}	17.4	X	186.58014	259.89977	177.53829	4.97440	0.0907742	0.26698739	2.3885898	21	6 8.3	20.8
401549 2013 EV_{124}	16.5	X	202.33249	257.23600	60.96522	11.22018	0.0360618	0.22997432	2.6384558	21	1 27.2	20.4
401550 2013 EK_{125}	17.3	X	180.67822	192.76224	99.58433	5.53607	0.0418763	0.21261764	2.7801604	21	—	—
401551 2013 ES_{125}	16.1	X	97.33937	220.97068	51.79769	5.52744	0.1460802	0.17285656	3.1916270	21	11 7.9	21.0
401552 2013 EK_{128}	15.7	X	93.95975	265.26796	52.69162	11.16349	0.1209979	0.19232667	2.9724168	21	12 27.2	20.3
401553 2013 EL_{128}	16.5	X	242.35321	66.27798	150.31443	14.69911	0.1697660	0.21270228	2.7794229	21	—	—
401554 2013 EO_{128}	15.7	X	88.88250	162.81274	124.27883	17.28030	0.1640046	0.17859257	3.1229171	21	11 23.6	20.8
401555 2013 EP_{139}	18.5	X	127.05987	95.11655	133.90719	2.81913	0.0747677	0.30518661	2.1848707	21	10 28.1	21.3
401556 2013 FO_{2}	16.2	X	193.58231	239.54558	62.15966	12.41696	0.0738140	0.21958466	2.7210387	21	—	—
401557 2013 FS_{2}	16.6	X	354.07097	51.38506	93.07588	5.77820	0.1002671	0.22571581	2.6715382	21	—	—
401558 2013 FB_{3}	16.1	X	168.08977	169.24462	121.46551	10.41656	0.1103131	0.20639752	2.8357399	21	—	—
401559 2013 FL_{3}	15.4	X	139.04782	112.44492	126.55322	16.58903	0.2144467	0.17569410	3.1571697	21	11 14.6	21.0
401560 2013 FY_{3}	16.6	X	289.31812	309.15470	320.23171	6.89091	0.1261705	0.24019317	2.5630807	21	2 21.1	20.2
401561 2013 FW_{4}	16.3	X	223.18602	229.40811	60.11800	9.69662	0.0937973	0.22605139	2.6688936	21	1 14.4	20.5
401562 2013 FG_{5}	16.7	X	244.40677	183.73104	85.54081	4.69795	0.0376512	0.22392288	2.6857798	21	1 13.9	20.5
401563 2013 FH_{5}	17.0	X	222.21980	17.16179	45.85215	8.75473	0.1234110	0.27277515	2.3546852	21	6 26.4	20.4
401564 2013 FJ_{5}	16.4	X	176.69594	221.78131	48.87415	8.89742	0.0419445	0.20152211	2.8812941	21	—	—
401565 2013 FO_{5}	16.9	X	302.82409	72.37048	148.57118	13.30579	0.1342380	0.23099395	2.6306858	21	1 7.9	20.7
401566 2013 FX_{5}	16.3	X	255.71332	148.43520	107.57340	9.83171	0.1051426	0.22331483	2.6906529	21	1 5.5	20.5
401567 2013 FW_{7}	16.4	X	102.16788	123.51668	148.32561	6.19666	0.1147209	0.17429458	3.1740478	21	11 10.6	21.3
401568 2013 FM_{8}	17.1	X	87.81459	18.16785	134.11526	12.20063	0.1084917	0.25952942	2.4341368	21	5 25.9	20.4
401569 2013 FD_{13}	15.8	X	116.98265	143.33630	105.12876	12.45125	0.1323186	0.17328552	3.1863578	21	11 2.2	21.0
401570 2013 FB_{15}	16.6	X	235.01749	211.71356	83.87426	12.91936	0.1191571	0.22736672	2.6585905	21	2 2.9	20.9
401571 2013 FY_{15}	16.8	X	254.95007	129.45983	69.57164	4.04511	0.0536583	0.20576082	2.8415868	21	—	—
401572 2013 FJ_{17}	16.5	X	230.12151	154.53194	5.57171	3.47173	0.1505258	0.18860158	3.0114281	21	10 29.7	21.1
401573 2013 FN_{17}	17.2	X	355.91065	284.23737	3.02790	2.12980	0.1916674	0.26295547	2.4129477	21	7 2.1	18.9
401574 2013 FN_{20}	16.3	X	303.20714	60.96882	81.08735	3.17105	0.0100985	0.20384240	2.8593876	21	—	—
401575 2013 FQ_{24}	16.7	X	152.99070	206.12228	193.27852	9.30475	0.0593672	0.24018200	2.5631601	21	3 8.7	20.2
401576 2013 FC_{25}	16.7	X	308.14913	185.61857	345.81822	2.64892	0.0306037	0.21464693	2.7626101	21	—	—
401577 2013 FG_{25}	15.7	X	104.91511	281.32858	2.69672	12.11155	0.0588685	0.18211073	3.0825659	21	11 18.0	20.4
401578 2013 FY_{25}	17.2	X	230.66750	348.83506	82.88462	10.73258	0.0964494	0.28253531	2.3001398	21	7 22.6	20.4
401579 2013 FE_{26}	15.3	X	304.01860	331.73557	48.55455	17.52793	0.0919699	0.16959022	3.2324775	21	8 25.0	19.9
401580 2013 FM_{27}	16.4	X	107.72980	131.00359	141.96363	1.56366	0.1500278	0.17575454	3.1564459	21	11 18.9	21.4
401581 2013 FP_{27}	15.8	X	61.97934	110.55469	199.70325	9.15862	0.1045586	0.17515146	3.1636873	21	11 10.1	20.3
401582 2013 FV_{27}	17.1	X	337.17669	113.80562	171.78312	7.37421	0.1205444	0.26035227	2.4290053	21	5 26.3	19.7
401583 2013 GO_{1}	16.3	X	101.24602	21.76542	347.03749	5.36676	0.0428332	0.21175689	2.7876892	21	—	—
401584 2013 GP_{1}	17.4	X	14.30734	4.79944	216.55187	6.04380	0.0547082	0.25257207	2.4786345	21	4 28.8	20.1
401585 2013 GS_{3}	15.9	X	113.35638	278.40131	17.14984	3.13004	0.1859919	0.18701844	3.0283990	21	12 22.9	20.8
401586 2013 GM_{4}	16.1	X	145.44655	95.93380	125.18912	2.30279	0.1282339	0.17685191	3.1433752	21	10 23.8	21.0
401587 2013 GT_{6}	15.7	X	164.04174	217.28383	5.36074	10.40290	0.0607230	0.18014165	3.1049883	21	11 8.6	20.5
401588 2013 GL_{9}	16.5	X	114.81797	80.98569	205.16163	1.65661	0.1911772	0.18382815	3.0633365	21	12 13.4	21.4
401589 2013 GM_{9}	16.8	X	315.27864	340.38292	190.02388	6.50974	0.1033206	0.21963564	2.7206176	21	—	—
401590 2013 GT_{9}	16.4	X	207.27202	161.13916	105.96954	5.08541	0.0626778	0.21148729	2.7900578	21	—	—
401591 2013 GD_{10}	16.7	X	203.89410	183.33965	116.25401	4.65824	0.1777202	0.21596969	2.7513184	21	1 9.8	21.2
401592 2013 GG_{10}	16.8	X	245.32065	74.33101	158.68870	3.69516	0.0367296	0.21294628	2.7772993	21	—	—
401593 2013 GO_{14}	16.5	X	252.15838	185.54733	124.19783	13.42339	0.1705592	0.23814490	2.5777563	21	3 4.6	20.7
401594 2013 GH_{15}	17.2	X	311.75102	59.73018	168.33335	1.89998	0.0334307	0.23484809	2.6018247	21	2 10.6	20.6
401595 2013 GN_{20}	15.9	X	306.50654	225.29961	178.71126	12.62407	0.0993543	0.17242929	3.1968973	21	9 18.1	20.0
401596 2013 GY_{20}	15.5	X	212.14723	298.07630	189.92335	17.54134	0.1028589	0.17074076	3.2179398	21	9 3.7	20.5
401597 2013 GY_{21}	15.9	X	133.18465	57.62411	193.48817	9.62438	0.1049122	0.17933309	3.1143143	21	11 16.1	20.8
401598 2013 GL_{22}	16.5	X	220.45287	242.08269	19.74386	10.38155	0.0811153	0.21061566	2.7977502	21	—	—
401599 2013 GO_{24}	15.2	X	126.43663	110.82766	136.46623	21.25410	0.1052740	0.17550554	3.1594307	21	11 10.5	20.5
401600 2013 GZ_{24}	17.3	X	171.49957	212.63811	299.35094	4.70911	0.0941750	0.28464968	2.2887354	21	8 30.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401601 2013 GP_{25}	16.5	X	185.34761	276.97334	297.60062	4.48132	0.1717369	0.18570500	3.0426616	21	11 18.4	21.6
401602 2013 GT_{25}	16.0	X	21.83256	8.73853	83.52289	14.55980	0.0359729	0.21366644	2.7710552	21	—	—
401603 2013 GX_{25}	15.9	X	158.40447	153.77953	103.74239	11.71272	0.0695377	0.19108727	2.9852558	21	12 18.9	20.5
401604 2013 GB_{26}	16.3	X	273.38769	130.43783	79.79577	8.96459	0.0762782	0.21498642	2.7597010	21	—	—
401605 2013 GV_{26}	16.9	X	195.91861	340.97343	72.15600	7.34589	0.0883255	0.26130408	2.4231033	21	5 17.4	20.2
401606 2013 GW_{26}	16.3	X	97.27808	311.86144	97.19451	7.46622	0.0602842	0.22617765	2.6679002	21	1 14.0	19.8
401607 2013 GV_{27}	15.6	X	51.26440	242.42280	101.95830	11.53693	0.1210947	0.18756680	3.0224937	21	12 12.5	19.8
401608 2013 GD_{30}	16.1	X	140.15365	232.57890	13.68316	7.83087	0.0810804	0.18027423	3.1034657	21	11 13.3	20.8
401609 2013 GH_{32}	16.7	X	197.67307	324.48115	43.80150	6.78303	0.1310320	0.24063452	2.5599457	21	3 25.9	20.8
401610 2013 GR_{32}	16.6	X	191.24568	129.51120	176.18492	6.52902	0.0931116	0.21523780	2.7575519	21	1 1.9	20.9
401611 2013 GO_{34}	15.5	X	94.76317	196.64705	92.38387	16.81874	0.0479996	0.18371518	3.0645922	21	11 19.8	20.1
401612 2013 GV_{37}	16.9	X	60.71310	334.87242	177.78458	13.95434	0.0740895	0.24613998	2.5216295	21	4 9.1	19.8
401613 2013 GJ_{38}	16.2	X	140.59578	255.39488	35.51749	6.09557	0.1025718	0.19348832	2.9605078	21	—	—
401614 2013 GP_{42}	17.5	X	306.12855	196.29428	185.57607	4.63908	0.1213811	0.28071423	2.3100769	21	8 24.6	19.6
401615 2013 GS_{43}	16.4	X	208.15616	264.07791	34.02143	13.37249	0.0781850	0.21662735	2.7457471	21	1 11.9	20.8
401616 2013 GK_{50}	17.0	X	210.48325	197.81200	70.18691	4.77394	0.0584349	0.21135313	2.7912384	21	—	—
401617 2013 GA_{52}	15.4	X	329.00035	324.17831	73.17750	18.20186	0.0824616	0.16899958	3.2400047	21	10 23.0	19.8
401618 2013 GK_{53}	15.6	X	35.45317	216.52613	138.12801	6.40874	0.1276093	0.17693442	3.1423978	21	12 4.0	19.8
401619 2013 GK_{54}	16.0	X	112.07337	201.92249	77.16562	5.48307	0.1111000	0.17697844	3.1418767	21	11 27.2	20.8
401620 2013 GU_{54}	15.6	X	88.57882	261.55490	46.36696	10.72574	0.0645763	0.18018194	3.1045254	21	12 1.1	20.2
401621 2013 GQ_{56}	17.1	X	282.21559	225.65972	102.76527	3.60891	0.1045867	0.25468338	2.4649171	21	5 4.9	20.4
401622 2013 GC_{57}	17.0	X	346.97558	121.76850	63.38355	3.88041	0.0244190	0.23227043	2.6210387	21	2 5.2	20.3
401623 2013 GZ_{58}	17.9	X	213.90797	258.50327	185.83440	4.93007	0.1196091	0.27771782	2.3266633	21	7 15.7	21.2
401624 2013 GD_{61}	16.6	X	131.56206	98.19351	165.49138	5.55442	0.1187501	0.18089897	3.0963163	21	11 29.6	21.6
401625 2013 GQ_{62}	15.6	X	132.65013	153.98773	104.49092	21.74979	0.1643750	0.18162166	3.0880971	21	11 30.3	20.9
401626 2013 GZ_{66}	16.0	X	208.35127	293.41379	191.93575	4.37004	0.1074544	0.17309142	3.1887393	21	8 28.9	20.9
401627 2013 GJ_{67}	17.4	X	136.74916	271.28789	198.29444	3.70446	0.0380788	0.26158150	2.4213898	21	5 19.1	20.4
401628 2013 GT_{70}	16.5	X	169.46068	290.63009	336.53356	1.27111	0.1571149	0.19107598	2.9853734	21	—	—
401629 2013 GU_{72}	16.5	X	224.56671	194.42248	73.98690	4.59860	0.0572090	0.20979345	2.8050553	21	—	—
401630 2013 GP_{73}	17.2	X	35.12235	170.43976	81.31417	5.53418	0.1350874	0.26196581	2.4190210	21	7 28.7	19.6
401631 2013 GF_{74}	16.0	X	212.79713	107.19807	87.10941	12.35840	0.1287539	0.19124635	2.9836001	21	11 26.8	20.6
401632 2013 GD_{75}	16.6	X	175.25514	210.50250	55.79189	11.28426	0.0801955	0.19656053	2.9295788	21	—	—
401633 2013 GR_{81}	16.0	X	86.75978	277.13667	25.92413	11.88726	0.1295885	0.17857470	3.1231255	21	11 29.2	20.9
401634 2013 GA_{82}	16.1	X	348.32939	65.21152	138.45405	15.57941	0.0802677	0.23543350	2.5975099	21	2 24.4	19.3
401635 2013 GO_{82}	16.8	X	206.67327	119.06306	186.94931	13.12952	0.2070313	0.22090243	2.7102065	21	1 17.2	21.6
401636 2013 GW_{83}	15.8	X	176.60195	63.79178	146.48441	11.15739	0.0781523	0.17947920	3.1126238	21	11 12.9	20.7
401637 2013 GY_{83}	16.6	X	275.40681	354.45719	191.15599	4.38626	0.1325239	0.21097082	2.7946094	21	—	—
401638 2013 GQ_{85}	15.8	X	124.27730	64.37883	209.55504	9.49175	0.0754265	0.17781868	3.1319715	21	12 1.5	20.6
401639 2013 GL_{91}	16.0	X	49.39777	333.70669	356.07201	9.11053	0.1147871	0.17362213	3.1822380	21	11 15.4	20.5
401640 2013 GA_{92}	15.8	X	317.41441	341.52728	256.17108	13.25368	0.0642105	0.23512053	2.5998144	21	2 19.4	19.5
401641 2013 GB_{92}	15.4	X	164.23207	357.02630	227.58289	16.65380	0.1488630	0.17984203	3.1084359	21	11 13.0	20.3
401642 2013 GW_{92}	15.3	X	177.95377	253.71723	294.13550	8.54645	0.1760145	0.17540645	3.1606205	21	10 7.9	20.7
401643 2013 GL_{93}	16.7	X	69.59706	292.73564	183.02088	14.60330	0.0386668	0.23690112	2.5867709	21	2 24.2	20.2
401644 2013 GF_{94}	17.2	X	174.71965	246.73682	228.66797	5.14796	0.1650222	0.27779299	2.3262436	21	7 15.3	20.8
401645 2013 GF_{96}	15.7	X	51.77457	352.34271	9.61762	11.10737	0.1045263	0.18669675	3.0318767	21	12 31.9	20.2
401646 2013 GV_{97}	16.5	X	280.43251	344.42616	251.10099	7.45904	0.1160043	0.22041539	2.7141975	21	1 5.1	20.6
401647 2013 GA_{98}	15.6	X	166.06597	293.93074	299.80907	15.49814	0.1519834	0.18251747	3.0779845	21	11 23.1	20.8
401648 2013 GO_{98}	16.1	X	212.12182	358.98454	175.39219	1.98304	0.0233467	0.18074572	3.0980662	21	11 10.5	20.6
401649 2013 GN_{100}	15.8	X	157.92581	40.86423	239.94073	10.14839	0.1144051	0.18890199	3.0082345	21	—	—
401650 2013 GN_{101}	15.2	X	48.91686	297.09476	64.49694	10.46303	0.0706390	0.18111686	3.0938325	21	12 20.7	19.6
401651 2013 GY_{102}	17.1	X	29.80194	324.21492	193.84190	7.36172	0.1359608	0.23847510	2.5753763	21	2 22.9	19.8
401652 2013 GO_{104}	17.3	X	58.12401	123.45921	15.09441	4.20336	0.1623006	0.24261844	2.5459714	21	3 25.3	19.9
401653 2013 GA_{105}	17.0	X	14.35897	330.18424	187.08524	14.68117	0.0354314	0.23091482	2.6312867	21	1 31.9	20.7
401654 2013 GS_{105}	15.3	X	136.27504	295.03187	324.29592	16.84642	0.1602148	0.17931403	3.1145349	21	11 25.7	20.7
401655 2013 GX_{107}	15.8	X	99.86869	187.98483	105.83946	5.97781	0.1463331	0.17241262	3.1971034	21	12 4.9	20.7
401656 2013 GR_{109}	16.1	X	179.07724	170.67509	107.88947	10.09249	0.0717292	0.19785346	2.9168020	21	—	—
401657 2013 GX_{109}	16.7	X	263.43702	130.39262	129.64477	4.16158	0.1340903	0.22171470	2.7035831	21	1 16.1	20.7
401658 2013 GG_{111}	15.6	X	194.97352	41.07853	161.28029	11.43948	0.0932725	0.18153666	3.0890610	21	11 20.9	20.5
401659 2013 GM_{111}	15.5	X	98.49831	190.40984	145.52245	11.95818	0.0998286	0.18394799	3.0620059	21	—	—
401660 2013 GK_{112}	15.7	X	198.10744	315.67711	239.45260	15.58037	0.1502876	0.18053820	3.1004399	21	11 8.1	20.7
401661 2013 GN_{112}	15.5	X	106.50319	351.75849	296.58629	8.85680	0.1461397	0.17672900	3.1448323	21	12 4.3	20.5
401662 2013 GO_{112}	16.2	X	98.93753	263.21105	50.29677	0.73259	0.0264864	0.18783668	3.0195979	21	12 17.9	20.5
401663 2013 GC_{113}	15.8	X	224.46995	135.01456	39.17026	12.48823	0.0745074	0.18217307	3.0818626	21	11 16.7	20.3
401664 2013 GP_{113}	16.0	X	175.65048	199.71447	125.42494	7.56399	0.0675159	0.21118404	2.7927281	21	1 8.3	20.0
401665 2013 GV_{115}	18.0	X	44.76852	286.70905	16.67730	2.83735	0.0878829	0.29000311	2.2604814	21	10 23.4	20.3
401666 2013 GD_{117}	16.6	X	125.39787	301.41769	77.14524	6.47255	0.0168703	0.22244897	2.6976304	21	1 6.6	20.1
401667 2013 GX_{118}	16.2	X	107.37370	50.72308	219.26185	1.02474	0.0505284	0.17710886	3.1403341	21	11 6.2	20.7
401668 2013 GX_{119}	16.6	X	100.89214	150.92797	154.28417	3.07568	0.1676521	0.18251199	3.0780461	21	12 21.5	21.6
401669 2013 GO_{120}	16.8	X	176.52838	267.81219	38.98981	5.03569	0.0732346	0.21047239	2.7990197	21	—	—
401670 2013 GX_{121}	15.9	X	117.34255	248.46961	16.49953	6.49674	0.1027448	0.17581031	3.1557783	21	11 13.5	20.7
401671 2013 GB_{122}	16.2	X	237.28693	140.09292	21.40492	9.65095	0.0562699	0.18474536	3.0531890	21	11 18.3	20.6
401672 2013 GJ_{125}	16.1	X	143.77976	169.51563	89.91117	11.79238	0.1093443	0.17883114	3.1201390	21	12 5.3	21.0
401673 2013 GO_{130}	16.3	X	337.87979	252.38020	250.09393	9.77036	0.1485924	0.21353170	2.7722208	21	—	—
401674 2013 GZ_{130}	16.7	X	264.52078	206.49155	110.99476	12.65565	0.1499246	0.24446729	2.5331187	21	3 30.5	20.7
401675 2013 GF_{131}	15.7	X	108.32958	149.32735	146.05891	16.04065	0.1741348	0.17926288	3.1151274	21	12 18.3	21.0
401676 2013 GY_{131}	16.2	X	291.97387	142.22717	134.25935	14.83823	0.0771043	0.24165125	2.5527602	21	3 16.9	19.8
401677 2013 GU_{132}	15.7	X	29.44224	65.13924	111.17338	4.17292	0.0965741	0.12555553	3.9498337	21	4 10.7	20.8
401678 2013 GA_{133}	16.1	X	145.06935	238.02426	342.75748	4.30237	0.0796433	0.17626735	3.1503209	21	10 19.1	21.0
401679 2013 GF_{134}	16.9	X	276.87311	220.44880	49.50782	5.69108	0.0066873	0.23403717	2.6078313	21	2 27.2	20.4
401680 2013 GQ_{134}	16.8	X	205.13288	69.08879	160.73543	4.38999	0.0800550	0.19386441	2.9566777	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401681 2013 HF_3	15.8	X	115.25388	130.27315	154.55202	9.94221	0.0453767	0.18046868	3.1012360	21	12 4.2	20.5
401682 2013 HL_5	16.1	X	199.06872	148.39567	139.61069	14.76312	0.0806875	0.20991806	2.8039451	21	—	—
401683 2013 HF_8	16.4	X	176.20048	24.25524	195.52731	5.25279	0.0953456	0.18220017	3.0815569	21	11 20.8	21.2
401684 2013 HF_9	16.7	X	327.15484	105.40084	95.79065	11.12240	0.0452902	0.23090565	2.6313564	21	1 27.9	20.1
401685 2013 HL_{10}	15.7	X	120.15671	97.82011	152.20960	17.06061	0.1345525	0.17311334	3.1884702	21	11 6.8	21.0
401686 2013 HB_{12}	16.2	X	120.10280	191.63233	64.00809	4.78166	0.1463738	0.17261858	3.1945598	21	11 9.7	21.3
401687 2013 HJ_{13}	16.4	X	175.54945	184.03452	66.58461	11.27446	0.1290753	0.18880783	3.0092346	21	12 24.2	21.2
401688 2013 HW_{13}	16.3	X	121.68520	38.40963	208.94836	3.95431	0.1285707	0.17176496	3.2051350	21	10 31.0	21.4
401689 2013 HG_{15}	15.7	X	274.18764	323.23488	216.52247	14.36046	0.0833685	0.20477651	2.8506854	21	—	—
401690 2013 HP_{17}	16.7	X	241.26963	350.93933	180.22500	2.71983	0.1543240	0.19142173	2.9817774	21	11 25.4	20.9
401691 2013 HJ_{18}	16.3	X	178.69205	24.48782	152.79354	1.51022	0.0947094	0.17128934	3.2110655	21	10 2.6	21.3
401692 2013 HT_{20}	15.9	X	125.34426	204.89014	91.12029	15.18718	0.0741090	0.18500484	3.0503335	21	12 28.7	20.5
401693 2013 HF_{22}	15.7	X	12.07752	25.13412	17.09028	10.51106	0.0532551	0.18750701	3.0231361	21	12 22.4	19.9
401694 2013 HG_{23}	15.4	X	150.75448	203.52428	50.69427	11.94459	0.0370730	0.17913355	3.1166265	21	12 3.5	20.0
401695 2013 HW_{23}	15.8	X	188.91100	217.81136	34.51965	15.78317	0.0923905	0.19282795	2.9672631	21	—	—
401696 2013 HP_{26}	16.0	X	231.10601	92.29247	69.69411	11.65476	0.0597736	0.18122945	3.0925510	21	11 14.5	20.4
401697 2013 HN_{28}	15.5	X	98.36927	189.25624	113.93857	11.75044	0.0386154	0.17707726	3.1407077	21	12 6.1	20.1
401698 2013 HO_{30}	16.6	X	190.90199	318.19360	249.22613	6.76309	0.1095877	0.18469738	3.0537177	21	11 19.2	21.4
401699 2013 HX_{30}	16.7	X	131.16967	116.61258	270.09959	5.02241	0.0370559	0.22433970	2.6824520	21	1 25.2	20.4
401700 2013 HN_{33}	16.5	X	236.14050	26.97517	280.94006	5.66672	0.0827003	0.22952126	2.6419267	21	2 15.6	20.4
401701 2013 HA_{36}	16.2	X	197.55123	181.69246	7.11320	13.91094	0.1734531	0.18196419	3.0842206	21	10 26.9	21.3
401702 2013 HL_{39}	16.6	X	176.58055	91.67072	240.26115	8.95155	0.1552354	0.21484888	2.7608786	21	1 20.7	21.1
401703 2013 HB_{40}	16.3	X	315.42326	191.11461	216.08955	25.80739	0.1033826	0.17347543	3.1840318	21	10 2.7	20.7
401704 2013 HW_{44}	16.8	X	113.42477	70.54967	298.10959	4.19885	0.0446297	0.21011806	2.8021655	21	—	—
401705 2013 HT_{48}	16.5	X	113.69154	60.48875	224.72627	8.41165	0.0394758	0.18164773	3.0878017	21	12 1.4	21.1
401706 2013 HH_{60}	17.5	X	238.75738	35.29429	245.64433	4.14383	0.0089334	0.22470349	2.6795560	21	1 21.6	21.2
401707 2013 HC_{68}	17.4	X	185.80513	118.92206	255.49600	3.18822	0.1000134	0.23691383	2.5866784	21	3 17.1	21.2
401708 2013 HA_{69}	17.0	X	61.61423	64.77028	349.32754	4.16768	0.1015687	0.21154185	2.7895781	21	—	—
401709 2013 HH_{69}	17.2	X	242.37272	4.50119	7.82123	4.58090	0.0969090	0.25521893	2.4614676	21	5 13.4	20.8
401710 2013 HM_{79}	16.2	X	201.85364	154.45839	27.34112	10.92608	0.0602920	0.17958372	3.1114160	21	11 2.2	20.7
401711 2013 HD_{95}	16.7	X	144.57631	100.60710	200.55981	1.31141	0.0574504	0.19833701	2.9120592	21	—	—
401712 2013 HU_{106}	15.9	X	92.37317	280.29470	31.09557	9.84010	0.0647213	0.18363619	3.0654709	21	12 9.9	20.5
401713 2013 HP_{114}	16.6	X	314.19934	140.15379	28.35833	3.30910	0.0331488	0.21224805	2.7833869	21	—	—
401714 2013 HA_{116}	17.3	X	86.40325	62.60495	35.83836	2.98729	0.0600688	0.23465928	2.6032202	21	3 3.6	20.6
401715 2013 HS_{116}	16.4	X	44.98039	305.65552	49.16697	2.49671	0.0833538	0.18226119	3.0808691	21	12 10.0	20.7
401716 2013 HY_{117}	17.2	X	278.20972	200.86473	154.21425	2.80027	0.1970231	0.25728380	2.4482800	21	5 21.9	20.5
401717 2013 HM_{118}	17.0	X	152.94845	293.76078	57.29271	5.09629	0.1090439	0.21584037	2.7524172	21	1 19.5	21.0
401718 2013 HB_{119}	16.9	X	14.03210	17.94760	66.40414	2.98417	0.0438661	0.20466791	2.8516937	21	—	—
401719 2013 HB_{122}	17.2	X	202.26057	94.20388	174.85487	1.86225	0.0316596	0.20617260	2.8378020	21	—	—
401720 2013 HK_{122}	17.1	X	173.78182	270.01364	5.77149	1.52446	0.0488612	0.19863141	2.9091811	21	—	—
401721 2013 HH_{133}	16.4	X	118.18190	79.03332	221.53629	8.56038	0.0276894	0.18926469	3.0043901	21	12 24.4	20.8
401722 2013 HH_{146}	17.3	X	74.46226	294.03103	205.41195	13.22107	0.0832362	0.24599084	2.5226486	21	4 10.7	20.2
401723 2013 JD_3	16.0	X	127.37530	300.44186	11.98129	5.93272	0.0817377	0.19536923	2.9414757	21	—	—
401724 2013 JR_3	15.6	X	104.09502	56.25244	211.80265	11.03402	0.1192136	0.17132287	3.2106465	21	11 6.7	20.5
401725 2013 JS_3	15.7	X	170.24464	142.44466	69.65033	16.31985	0.0641038	0.17845302	3.1245450	21	11 9.0	20.5
401726 2013 JG_4	15.3	X	6.91403	318.49853	74.48933	10.24373	0.0759851	0.17368202	3.1815065	21	12 3.8	19.3
401727 2013 JR_4	15.7	X	23.83046	137.94096	226.64391	12.80925	0.0262244	0.17539477	3.1607608	21	11 17.1	20.0
401728 2013 JE_9	16.8	X	32.60795	286.08524	217.18190	10.73767	0.2191111	0.23280875	2.6169967	21	2 5.5	19.2
401729 2013 JZ_{14}	16.2	X	119.43763	24.08641	263.62196	8.25687	0.0805883	0.19703374	2.9248862	21	12 15.4	20.5
401730 2013 JF_{16}	16.2	X	249.55958	81.94910	53.81111	9.97711	0.0794827	0.17887020	3.1196849	21	11 1.3	20.7
401731 2013 JH_{20}	16.7	X	343.18215	194.02850	309.54894	2.45594	0.0353117	0.21023316	2.8011428	21	—	—
401732 2013 JD_{23}	16.0	X	108.88311	179.91220	136.44346	1.44093	0.1669213	0.17949749	3.1124123	21	—	—
401733 2013 JX_{23}	15.2	X	82.23395	271.14182	62.81009	11.06901	0.0542853	0.18132571	3.0914564	21	12 24.6	19.7
401734 2013 JW_{24}	16.0	X	96.27214	221.04177	58.81507	3.89915	0.0468873	0.17024191	3.2242230	21	11 4.6	20.6
401735 2013 JE_{26}	15.2	X	220.15078	311.09339	203.67474	18.71089	0.1087817	0.17088944	3.2160729	21	10 16.1	20.0
401736 2013 JK_{32}	15.7	X	89.27654	177.79040	143.58160	7.97578	0.0659401	0.17413589	3.1759758	21	12 18.5	20.4
401737 2013 JB_{33}	16.6	X	123.97853	271.47463	111.64459	6.97781	0.0573202	0.22036761	2.7145898	21	1 16.6	20.0
401738 2013 JB_{35}	15.6	X	224.40212	323.82366	235.34513	7.51408	0.1105275	0.18824564	3.0152229	21	12 14.5	20.0
401739 2013 JN_{35}	15.4	X	296.19021	210.02481	239.12162	14.85466	0.0462477	0.17328452	3.1863700	21	11 4.5	19.7
401740 2013 JP_{37}	15.6	X	170.87997	82.84224	128.04319	22.81344	0.1157094	0.17805159	3.1292395	21	11 11.7	21.0
401741 2013 JZ_{42}	15.7	X	121.30181	271.95398	45.70885	10.45764	0.0841964	0.18764443	3.0216600	21	—	—
401742 2013 JE_{43}	16.3	X	200.35492	323.24861	241.56787	3.82460	0.0967600	0.18162150	3.0880990	21	11 26.4	20.9
401743 2013 JM_{50}	16.3	X	58.27714	137.18270	216.69991	11.15562	0.0772197	0.18152220	3.0892251	21	12 23.4	20.8
401744 2013 JN_{51}	16.5	X	130.91272	172.64002	202.44064	5.85500	0.0355338	0.21279368	2.7786269	21	1 12.4	20.4
401745 2013 JV_{51}	17.2	X	256.36433	226.52109	139.97692	5.11849	0.0931495	0.25704742	2.4497807	21	5 25.5	20.6
401746 2013 JL_{53}	16.2	X	56.13569	117.90138	225.44483	7.42541	0.0369077	0.17841620	3.1249749	21	12 3.2	20.5
401747 2013 JU_{54}	16.2	X	97.60532	247.34552	90.38058	4.73364	0.1411735	0.18371102	3.0646384	21	—	—
401748 2013 JT_{57}	16.1	X	83.94309	261.32311	80.51552	11.94465	0.0432141	0.18448843	3.0560231	21	—	—
401749 2013 JY_{58}	16.7	X	20.33319	321.21804	123.65307	3.11939	0.0377458	0.20300136	2.8672799	21	—	—
401750 2013 JE_{59}	16.7	X	236.67254	205.33516	81.75373	4.61865	0.0894781	0.21831563	2.7315731	21	1 26.2	20.7
401751 2013 JM_{60}	15.9	X	247.00547	260.99173	234.27723	10.17449	0.0690901	0.17579451	3.1559675	21	10 27.0	20.4
401752 2013 JW_{60}	16.2	X	84.89892	85.39381	235.60935	8.78750	0.1141276	0.17419629	3.1752417	21	12 17.9	21.0
401753 2013 JO_{61}	15.8	X	35.48856	353.25543	58.92908	9.89594	0.0776899	0.19079810	2.9882712	21	—	—
401754 2013 JN_{62}	16.0	X	93.43767	181.40398	140.87483	10.32950	0.1020613	0.18238083	3.0795217	21	12 28.7	20.8
401755 2013 KL	16.3	X	82.97783	127.24435	228.30907	10.94726	0.0476547	0.18960302	3.0008149	21	—	—
401756 2013 KW_3	15.8	X	129.00446	74.14686	219.46818	10.69202	0.0718548	0.18008921	3.1055910	21	12 27.8	20.6
401757 2013 KV_4	16.5	X	127.35615	63.82048	233.29255	3.29418	0.1139225	0.18245323	3.0787069	21	—	—
401758 2013 KY_6	16.9	X	91.54773	92.86614	57.46910	4.76158	0.0512058	0.24547346	2.5261920	21	5 16.6	19.8
401759 2013 KQ_9	16.3	X	329.43988	320.97021	148.71994	4.37960	0.0434000	0.18955207	3.0013527	21	—	—
401760 2013 KY_{12}	15.7	X	352.08927	345.84765	65.82757	7.35592	0.0597683	0.17618491	3.1513036	21	12 5.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401761 2013 KM_{16}	15.5	X	96.56622	234.48577	103.11192	10.51954	0.0669569	0.18397337	3.0617243	21	—	—
401762 2013 LJ	16.0	X	94.75933	203.17044	102.29927	2.93099	0.0928902	0.17187440	3.2037744	21	12 7.9	20.8
401763 2013 LG_{4}	15.3	X	117.60054	196.97841	67.75989	12.50077	0.0303766	0.16916101	3.2379430	21	11 10.6	20.1
401764 2013 LV_{11}	15.8	X	306.64806	263.36897	206.30571	13.62751	0.0363664	0.17825745	3.1268299	21	12 15.6	20.2
401765 2013 LM_{18}	15.5	X	85.44136	186.33153	137.88831	10.34237	0.0854497	0.17452451	3.1712594	21	12 20.0	20.3
401766 2013 LY_{18}	15.9	X	314.76984	256.88819	195.58544	9.94534	0.0822046	0.17628747	3.1500812	21	12 3.7	20.0
401767 2013 LN_{25}	15.5	X	62.77004	116.58288	238.76831	20.63174	0.0390154	0.18048826	3.1010117	21	12 23.6	20.1
401768 2013 MK_{1}	15.7	X	13.90049	306.11044	116.57824	11.92910	0.0699953	0.18766607	3.0214278	21	—	—
401769 2013 MR_{7}	15.5	X	127.36894	32.82136	256.88645	10.34208	0.1142544	0.17825516	3.1268567	21	12 23.7	20.3
401770 2013 UX_{11}	16.6	X	338.55431	310.93620	43.78385	5.31556	0.2852080	0.23551675	2.5968977	21	9 8.0	18.1
401771 2014 BN_{43}	15.0	X	111.08551	287.52999	254.28948	23.88199	0.2351039	0.17258381	3.1949888	21	8 2.8	20.6
401772 2014 CU_{15}	15.5	X	97.71107	221.33772	332.02536	10.59194	0.0721874	0.17935907	3.1140135	21	7 27.9	20.0
401773 2014 CG_{19}	16.1	X	196.03653	137.02732	74.05155	10.55828	0.2082348	0.21959918	2.7209187	21	11 26.9	20.5
401774 2014 DS_{19}	16.2	X	29.56350	82.90316	197.92401	0.29530	0.1581481	0.17850996	3.1238805	21	8 26.3	19.8
401775 2014 DK_{31}	16.7	X	211.71052	17.30687	171.46392	5.56877	0.0826708	0.22043444	2.7140411	21	11 27.7	20.6
401776 2014 DU_{66}	16.3	X	157.78463	151.51959	130.33793	8.36812	0.0729962	0.22911066	2.6450823	21	—	—
401777 2014 DH_{123}	16.7	X	204.81291	28.27211	172.15600	13.15549	0.1191967	0.22037407	2.7145367	21	12 1.5	21.0
401778 2014 DW_{140}	15.9	X	114.80697	318.22745	247.09759	3.50040	0.1133708	0.18740543	3.0242285	21	9 1.9	20.6
401779 2014 EJ_{12}	16.4	X	214.29779	241.97172	35.53605	12.63375	0.1805763	0.24574770	2.5243123	21	—	—
401780 2014 ET_{19}	16.9	X	216.45654	177.56911	105.27260	3.46352	0.1765535	0.25022275	2.4941248	21	—	—
401781 2014 EM_{23}	15.8	X	197.00410	15.80992	54.43367	11.07583	0.0646958	0.17210987	3.2008515	21	6 11.9	20.7
401782 2014 FZ_{1}	15.9	X	176.76411	118.38744	48.00261	12.89111	0.0151095	0.19817443	2.9136517	21	9 27.7	20.1
401783 2014 FA_{13}	15.9	X	116.22477	67.81489	115.19750	6.30248	0.0822041	0.18098710	3.0953111	21	8 5.4	20.3
401784 2014 FP_{23}	16.5	X	217.87833	288.33913	218.91892	8.53478	0.1597285	0.20989827	2.8041214	21	10 1.9	21.0
401785 2014 FW_{41}	16.8	X	305.24478	70.38335	84.68188	16.86316	0.1445858	0.24035797	2.5619090	21	—	—
401786 2014 FS_{46}	17.6	X	2.16989	120.95905	144.90074	5.91034	0.1938709	0.28683613	2.2770897	21	6 9.7	19.1
401787 2014 FY_{53}	17.7	X	52.55301	133.88550	97.13420	4.69021	0.1371988	0.29770731	2.2213128	21	7 29.1	19.8
401788 2014 FB_{54}	15.4	X	109.63221	180.05999	95.22806	30.51278	0.3081794	0.18697137	3.0289073	21	12 8.2	21.0
401789 2014 FU_{57}	17.0	X	271.98884	36.99877	146.89245	5.53600	0.2136636	0.23387783	2.6090156	21	—	—
401790 2014 GF_{18}	17.8	X	321.65263	258.66726	6.89834	1.26640	0.1700138	0.27312329	2.3526838	21	3 19.3	20.3
401791 2014 GA_{28}	16.9	X	48.59104	134.62730	35.37130	7.51499	0.0519640	0.27646585	2.3336822	21	4 7.9	19.3
401792 2014 GM_{32}	15.9	X	89.46221	199.98615	49.86276	16.38070	0.0503567	0.18286944	3.0740337	21	9 30.6	20.5
401793 2014 HS_{1}	17.1	X	350.80496	38.06017	219.41654	5.02383	0.2147279	0.27812782	2.3243762	21	4 22.0	18.8
401794 2014 HF_{10}	17.2	X	247.80512	121.02306	55.70946	6.18748	0.1014560	0.21987827	2.7186158	21	12 22.3	20.7
401795 2014 HK_{13}	17.9	X	40.48035	318.50009	173.13298	2.41659	0.1280323	0.26228329	2.4170686	21	1 30.9	20.1
401796 2014 HS_{22}	15.3	X	253.96985	312.20453	116.66655	17.57510	0.0727162	0.17695734	3.1421265	21	8 16.9	19.9
401797 2014 HP_{26}	16.3	X	277.99995	143.51162	43.79802	13.90194	0.0992421	0.23565738	2.5958645	21	—	—
401798 2014 HK_{32}	17.0	X	149.95191	211.10340	61.62827	4.41835	0.0092626	0.21456070	2.7633503	21	—	—
401799 2014 HZ_{121}	17.2	X	281.18756	31.27799	135.09437	2.81454	0.1290424	0.22985092	2.6394000	21	—	—
401800 2014 HS_{128}	16.5	X	246.86132	101.13572	128.57107	14.05356	0.1300290	0.23427965	2.6060316	21	—	—
401801 2014 HS_{129}	16.4	X	228.24819	110.57545	59.41194	24.85825	0.2260001	0.21285060	2.7781315	21	11 8.6	20.8
401802 2014 HM_{130}	16.3	X	14.50115	216.52516	158.24308	6.04504	0.0500170	0.20994447	2.8037100	21	11 27.5	20.0
401803 2014 HB_{156}	16.4	X	235.06565	81.79933	82.27529	4.89755	0.0381886	0.20859167	2.8158190	21	11 27.9	20.3
401804 2014 HR_{162}	16.5	X	189.11999	128.34610	145.21110	4.36705	0.1885599	0.22351791	2.6890229	21	—	—
401805 2014 HK_{172}	16.1	X	180.08209	223.10749	78.91721	10.89174	0.1906439	0.22843141	2.6503231	21	—	—
401806 2014 HN_{176}	14.9	X	56.74945	206.71696	83.84169	24.67131	0.0883995	0.18064209	3.0992510	21	10 21.7	19.7
401807 2014 HP_{179}	16.6	X	258.22422	354.53258	215.39640	13.87072	0.0650089	0.23185596	2.6241614	21	—	—
401808 2014 JB_{24}	17.3	X	288.50451	237.45059	115.78045	5.53804	0.0832052	0.29087177	2.2559787	21	6 19.2	19.8
401809 3195 T–2	17.8	X	309.99973	262.11229	54.06022	2.77408	0.4108117	0.26456790	2.4031338	21	4 6.2	20.9
401810 3165 T–3	17.0	X	266.81979	350.85210	27.11536	8.42012	0.2389242	0.26472481	2.4021841	21	5 31.7	20.6
401811 1981 EM_{36}	16.6	X	347.29605	209.15449	292.19338	8.58358	0.2096841	0.21741713	2.7390936	21	—	—
401812 1994 AV_{8}	17.8	X	179.93703	271.19342	121.88085	5.19832	0.1513187	0.26258395	2.4152232	21	4 7.5	21.5
401813 1994 RB_{5}	17.9	X	319.35143	18.30484	17.22386	7.95712	0.1094619	0.29268777	2.2466375	21	10 15.2	19.7
401814 1994 WQ_{8}	18.1	X	292.74361	274.21539	146.65424	5.36152	0.1311429	0.28924080	2.2644514	21	10 3.2	20.1
401815 1995 ME_{8}	17.0	X	179.73369	194.98914	128.93189	9.15000	0.2209823	0.21363764	2.7713042	21	1 20.1	21.6
401816 1995 SL_{76}	19.0	X	305.83455	3.88238	62.98223	1.90364	0.1191918	0.30533991	2.1841393	21	11 10.5	20.8
401817 1995 SX_{77}	18.7	X	316.51702	298.27321	119.35903	1.94766	0.1653653	0.30523223	2.1846529	21	11 17.5	20.0
401818 1995 UR_{21}	17.5	X	105.70328	351.98133	1.03059	1.72357	0.0877038	0.19996856	2.8961979	21	—	—
401819 1995 UD_{43}	17.7	X	275.03885	98.08282	225.08530	0.80260	0.1974949	0.25464811	2.4651447	21	4 5.2	21.4
401820 1996 SP_{7}	16.6	X	176.48518	113.55846	244.70761	8.27624	0.3184859	0.21823844	2.7322172	21	2 26.2	21.7
401821 1997 SM_{7}	15.9	X	36.19214	54.00503	357.43152	9.21748	0.0919983	0.17599459	3.1535750	21	—	—
401822 1997 YC_{18}	16.5	X	48.86095	150.26096	300.86164	7.05032	0.1867546	0.21370083	2.7707579	21	1 7.7	19.0
401823 1998 QC_{60}	16.3	X	122.60751	332.33420	356.76270	8.91407	0.1320810	0.18476020	3.0530255	21	—	—
401824 1998 QG_{71}	17.4	X	69.77400	7.00647	300.20472	7.06105	0.2512671	0.30826544	2.1702986	21	12 21.9	20.8
401825 1998 RH_{9}	16.9	X	58.08562	209.92635	158.19338	0.82510	0.2181588	0.18102093	3.0949254	21	—	—
401826 1998 RR_{11}	15.9	X	95.92890	303.90179	11.02300	11.21409	0.2288400	0.18003511	3.1062130	21	—	—
401827 1998 SH_{13}	17.5	X	217.72574	355.87266	31.16983	7.98815	0.2630182	0.24451380	2.5327975	21	4 30.1	21.9
401828 1998 SC_{31}	16.2	X	119.38036	324.83369	345.34048	9.50232	0.0577584	0.18353336	3.0666158	21	—	—
401829 1998 SX_{31}	18.1	X	221.41638	325.02759	52.85038	0.53767	0.2140357	0.24476442	2.5310683	21	4 24.1	22.4
401830 1998 SZ_{126}	15.9	X	73.58563	323.01797	40.35036	9.07355	0.2257342	0.18069329	3.0986655	21	—	—
401831 1998 TD_{9}	15.8	X	5.09035	28.13202	28.96318	10.10027	0.0561463	0.17720336	3.1392175	21	12 29.8	20.2
401832 1998 TO_{21}	17.3	X	141.42403	174.62746	228.72515	1.87758	0.0497851	0.23532544	2.5983050	21	2 28.1	20.8
401833 1998 WA_{36}	16.2	X	67.28777	298.09852	44.61643	10.72528	0.1136829	0.17623917	3.1506567	21	12 24.6	20.9
401834 1999 TB_{167}	16.9	X	280.93422	4.03817	327.98032	5.97447	0.1460419	0.25827086	2.4420381	21	4 27.5	20.2
401835 1999 TC_{263}	17.2	X	315.81362	260.84385	24.85385	6.88842	0.0990015	0.25535901	2.4605674	21	4 21.7	20.1
401836 1999 TX_{295}	15.3	X	262.24179	44.40050	354.34254	2.36050	0.2662606	0.12513555	3.9586665	21	6 23.6	21.4
401837 1999 UV_{21}	16.9	X	102.83224	178.12029	172.24640	0.49269	0.1298784	0.19031509	2.9933252	21	—	—
401838 1999 UO_{32}	15.9	X	355.63091	48.22305	42.32975	7.47829	0.1296187	0.18716967	3.0267675	21	—	—
401839 1999 UE_{54}	17.1	X	53.64731	174.48469	215.97199	4.71644	0.1971857	0.18725105	3.0258905	21	—	—
401840 1999 UH_{56}	17.9	X	288.32213	169.30428	203.19894	1.65759	0.3126920	0.26255037	2.4154291	21	6 9.5	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401841 1999 VZ_{75}	18.1	X	253.51396	325.87487	82.12884	2.16229	0.1889413	0.25938572	2.4350358	21	7 4.4	21.7
401842 1999 VF_{84}	17.9	X	277.14243	193.77816	183.16034	0.95216	0.2087629	0.26277461	2.4140548	21	6 17.2	20.9
401843 1999 VH_{88}	16.1	X	293.69773	165.63265	208.51348	2.29265	0.3099041	0.12645634	3.9310537	21	6 21.7	21.6
401844 1999 VM_{105}	17.7	X	211.14751	10.92108	31.48452	0.22504	0.2084106	0.25372263	2.4711356	21	5 15.7	21.9
401845 1999 VW_{116}	16.0	X	269.96657	351.73708	38.17967	3.27964	0.2311498	0.12565810	3.9476841	21	6 24.8	21.9
401846 1999 WN_{5}	16.0	X	255.23205	84.89067	63.52570	12.26009	0.0978172	0.17974275	3.1095805	21	11 20.1	20.4
401847 1999 WW_{19}	16.8	X	47.35024	77.24656	357.92477	7.66829	0.4793097	0.18842085	3.0133535	21	1 29.8	18.1
401848 1999 WE_{21}	16.0	X	272.62509	329.23942	54.63247	5.03934	0.3092515	0.12408633	3.9809502	21	6 10.9	22.0
401849 1999 XY_{77}	16.8	X	92.11188	322.44532	59.49110	1.52151	0.3364709	0.19078445	2.9884138	21	1 22.1	20.6
401850 2000 AC_{90}	14.6	X	260.51962	216.66598	289.00029	26.79753	0.1514277	0.17442333	3.1724857	21	11 9.5	19.6
401851 2000 AE_{207}	17.9	X	170.40211	257.69119	259.37779	0.83025	0.2127469	0.29976096	2.2111557	21	9 5.4	21.3
401852 2000 AJ_{219}	17.3	X	10.44146	63.54438	98.33377	4.12732	0.1457607	0.23524148	2.5989232	21	1 26.1	19.8
401853 2000 DB_{58}	16.8	X	5.41709	205.35723	333.76063	11.80956	0.0992211	0.23333598	2.6130531	21	2 15.7	19.6
401854 2000 ER_{3}	16.5	X	296.25342	235.94387	353.09083	13.98412	0.1343196	0.22919395	2.6444414	21	1 15.0	20.6
401855 2000 HW_{79}	17.2	X	270.46984	66.17693	162.10219	14.44851	0.3088820	0.22195732	2.7016126	21	—	—
401856 2000 KW_{43}	20.2	X	63.02120	63.53701	82.67840	24.27693	0.4781460	0.56307551	1.4524180	21	5 24.3	19.5
401857 2000 PG_{3}	16.0	X	116.27092	141.23268	323.58142	22.02528	0.8552495	0.20760843	2.8247026	21	6 29.4	22.7
401858 2000 QJ_{54}	17.3	X	346.94233	356.91141	350.62173	8.27182	0.2893916	0.28254606	2.3000814	21	10 2.2	18.1
401859 2000 QZ_{69}	17.2	X	309.32402	41.79265	333.20218	9.47986	0.2339751	0.28003721	2.3137986	21	8 4.2	19.0
401860 2000 QP_{93}	17.9	X	353.86123	38.03384	300.62702	3.98857	0.2414895	0.28311017	2.2970251	21	10 1.6	19.3
401861 2000 RB_{36}	17.9	X	339.01877	188.46972	169.46374	6.20210	0.2489821	0.28088981	2.3091141	21	9 25.2	18.6
401862 2000 SA_{41}	17.7	X	329.07538	14.10599	348.09632	6.27072	0.2106426	0.28052054	2.3111401	21	9 3.4	18.8
401863 2000 SM_{101}	17.1	X	146.98465	229.44925	153.23023	9.53942	0.2992176	0.21079582	2.7961559	21	3 9.9	21.8
401864 2000 SP_{296}	17.4	X	335.58412	58.17822	291.46297	5.16150	0.2104464	0.28009720	2.3134682	21	8 26.2	18.8
401865 2000 TT_{1}	17.5	X	326.72242	0.82771	9.36113	10.42783	0.1580068	0.28002074	2.3138893	21	9 17.4	19.2
401866 2000 TF_{24}	16.1	X	83.73521	93.23837	309.14243	13.61055	0.1534823	0.20349540	2.8626372	21	1 5.8	19.7
401867 2000 TM_{25}	17.4	X	300.33022	316.58045	38.92290	4.52456	0.1692122	0.27509152	2.3414483	21	6 26.6	19.9
401868 2000 VS_{41}	18.0	X	319.94101	31.92034	345.78289	3.68152	0.2829921	0.27923468	2.3182298	21	8 25.8	18.9
401869 2000 VZ_{51}	16.7	X	96.13334	141.84838	255.00194	6.88813	0.3294318	0.20318219	2.8655784	21	2 7.9	20.6
401870 2000 WZ_{10}	15.9	X	320.11272	352.84229	102.21399	12.96302	0.0938995	0.18602678	3.0391519	21	12 16.5	19.7
401871 2000 WA_{44}	17.6	X	297.97642	312.86273	87.56273	7.87352	0.3238234	0.27688768	2.3313114	21	8 3.9	20.0
401872 2001 BR_{70}	15.5	X	193.03719	208.46123	307.88693	21.94471	0.2176648	0.17317829	3.1876729	21	9 6.3	21.2
401873 2001 CF_{17}	16.1	X	249.20096	33.51783	122.11760	11.55716	0.2472117	0.18083713	3.0970221	21	11 6.1	20.9
401874 2001 FN_{60}	15.7	X	216.95718	169.73078	3.41471	17.51688	0.1476225	0.17548490	3.1596784	21	10 25.9	20.8
401875 2001 KW_{9}	16.9	X	271.45743	195.68720	75.87566	8.56938	0.2000953	0.23576474	2.5950764	21	2 1.2	21.1
401876 2001 OH_{17}	16.5	X	213.20082	59.12533	292.52913	7.69817	0.1963279	0.23117259	2.6293303	21	3 13.9	21.1
401877 2001 ON_{32}	16.8	X	250.70485	70.83172	298.38733	9.84101	0.2792297	0.23764239	2.5813889	21	4 30.4	21.4
401878 2001 OS_{83}	16.4	X	163.62336	329.67142	66.53141	9.92405	0.2839416	0.22505347	2.6767773	21	4 8.4	21.2
401879 2001 OP_{91}	17.3	X	194.75976	60.63092	279.45954	14.25851	0.3463063	0.22560805	2.6723889	21	2 15.2	22.5
401880 2001 PY_{34}	16.1	X	150.19746	168.79589	243.45707	13.18679	0.2374839	0.22550448	2.6732071	21	4 6.3	20.7
401881 2001 QZ_{250}	16.2	X	228.30910	327.02857	4.61989	18.34010	0.2057584	0.22919864	2.6444053	21	3 10.2	20.7
401882 2001 QH_{283}	16.9	X	237.15745	73.51955	251.27013	11.60365	0.3152310	0.23007774	2.6376651	21	2 23.8	22.1
401883 2001 QU_{329}	17.0	X	126.58639	150.11287	218.43453	9.05483	0.2683120	0.21799188	2.7342769	21	1 27.2	21.2
401884 2001 QG_{333}	16.6	X	279.98108	301.53239	10.84711	15.03985	0.2057493	0.23471844	2.6027827	21	3 29.4	20.3
401885 2001 RV_{17}	20.5	X	84.79909	4.56544	153.89095	7.52613	0.3424905	1.12684990	0.9145877	21	—	—
401886 2001 RH_{28}	16.7	X	229.64564	298.90265	339.46769	11.08783	0.2074432	0.22462598	2.6801724	21	1 6.7	21.4
401887 2001 RA_{41}	17.5	X	151.00810	92.80615	297.92759	11.35084	0.2808757	0.22315688	2.6919223	21	3 13.5	22.3
401888 2001 RR_{56}	17.6	X	278.59356	232.03118	150.25330	1.94409	0.2527799	0.24028334	2.5624394	21	6 20.3	21.1
401889 2001 RA_{83}	16.9	X	208.37750	81.84881	274.06137	3.75667	0.2441899	0.22830124	2.6513305	21	3 16.9	21.7
401890 2001 RD_{85}	17.5	X	187.22029	94.16352	283.72737	3.95621	0.3096551	0.22728594	2.6592204	21	3 28.5	22.4
401891 2001 RW_{121}	16.9	X	148.82485	31.41730	5.38602	10.89601	0.2185482	0.22369093	2.6876361	21	3 20.6	21.1
401892 2001 SA_{5}	16.3	X	239.10607	272.39752	27.62399	23.32219	0.3963821	0.22643098	2.6659100	21	2 10.8	21.9
401893 2001 SR_{27}	17.0	X	168.88501	236.87475	177.47166	13.21329	0.2532975	0.22692153	2.6620666	21	4 30.8	21.7
401894 2001 SH_{85}	16.5	X	229.62437	337.08296	343.56648	14.44132	0.1161435	0.22769066	2.6560683	21	2 26.5	20.5
401895 2001 SA_{154}	17.8	X	23.75244	359.10055	6.90438	7.37182	0.1614693	0.30187214	2.2008344	21	—	—
401896 2001 SO_{184}	17.8	X	336.97451	257.37736	348.10991	18.09745	0.0761422	0.38223079	1.8804088	21	3 9.7	19.0
401897 2001 SM_{224}	16.9	X	166.77400	246.30000	165.59308	6.46812	0.1341464	0.22723564	2.6596128	21	4 19.8	21.0
401898 2001 SO_{269}	17.2	X	191.02624	16.29684	1.83058	4.04585	0.1448799	0.22661133	2.6644954	21	3 30.4	21.4
401899 2001 SD_{298}	15.9	X	158.26084	225.52194	178.84276	9.20170	0.0849832	0.17769012	3.1334819	21	4 2.0	20.6
401900 2001 SZ_{301}	16.6	X	302.50541	214.50865	194.82846	9.24545	0.0855609	0.19649817	2.9301985	21	9 22.7	20.5
401901 2001 SX_{307}	17.1	X	127.74909	41.97677	13.73609	6.40429	0.1787234	0.22221978	2.6994849	21	3 19.7	21.0
401902 2001 TF_{20}	15.6	X	223.76526	150.51683	236.87521	13.98084	0.3069099	0.23066049	2.6332206	21	5 3.9	20.5
401903 2001 TW_{22}	16.6	X	210.19982	189.51520	207.50463	8.15120	0.0836705	0.23130727	2.6283096	21	5 14.0	20.5
401904 2001 TA_{84}	17.6	X	154.13044	137.95982	255.84095	5.65639	0.2731361	0.22293666	2.6936948	21	3 21.9	22.3
401905 2001 TY_{101}	16.4	X	158.39500	11.46579	355.42516	4.70585	0.1711257	0.22006757	2.7170566	21	2 18.3	20.6
401906 2001 TE_{126}	17.5	X	218.76345	350.04044	305.13000	1.50343	0.1563529	0.22196517	2.7015489	21	1 16.2	21.7
401907 2001 TE_{136}	16.6	X	170.99305	69.24635	346.39657	12.08576	0.2582400	0.22668919	2.6638852	21	4 26.7	21.4
401908 2001 TO_{158}	16.7	X	164.37717	347.30585	24.49976	13.41850	0.1496093	0.22333280	2.6905085	21	3 4.5	21.0
401909 2001 TR_{163}	17.0	X	189.33399	332.35093	43.22382	5.59761	0.1385616	0.22593830	2.6697841	21	3 27.9	21.2
401910 2001 UJ_{71}	17.9	X	357.69600	312.35128	42.55514	3.00823	0.2432426	0.29623324	2.2286756	21	11 16.4	19.3
401911 2001 UF_{77}	16.5	X	188.12120	319.19722	56.26609	9.13318	0.2376927	0.22423859	2.6832583	21	3 31.1	21.2
401912 2001 UG_{108}	18.7	X	348.79563	322.52197	57.34945	3.50826	0.2399087	0.29714584	2.2241101	21	12 7.1	20.0
401913 2001 UE_{120}	18.0	X	318.16687	2.49071	48.60779	6.85091	0.1834045	0.29592239	2.2302361	21	11 6.4	19.2
401914 2001 UZ_{128}	17.4	X	152.28463	244.91462	158.56869	3.39321	0.3249207	0.22342462	2.6897714	21	4 7.8	22.1
401915 2001 UD_{187}	18.0	X	16.18251	318.31389	37.00889	5.47070	0.1893972	0.30037314	2.2081504	21	12 12.8	20.2
401916 2001 VV_{38}	17.7	X	191.52047	168.63227	240.84977	7.49334	0.1874889	0.27704335	2.3304381	21	5 6.1	21.3
401917 2001 VG_{128}	17.9	X	26.45176	219.84381	102.21383	7.61198	0.2113825	0.29723022	2.2236891	21	11 16.8	20.2
401918 2001 WF_{37}	16.9	X	145.03207	273.93927	82.18710	4.04591	0.2106735	0.21559847	2.7544756	21	1 27.9	21.1
401919 2001 WW_{53}	17.4	X	171.37751	333.10677	23.12744	2.72839	0.1860908	0.21948324	2.7218768	21	2 18.4	21.7
401920 2001 WD_{87}	16.7	X	136.28995	111.69989	261.38294	4.03012	0.1893622	0.21689094	2.7435220	21	2 4.1	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
401921 2001 XL_6	15.9	X	145.53320	88.13717	303.80634	28.78243	0.4247555	0.21742978	2.7389874	21	3 9.7	21.5
401922 2001 XJ_{45}	17.5	X	143.41104	83.65520	332.67452	6.45800	0.3044364	0.21964419	2.7205470	21	4 11.9	22.3
401923 2001 XV_{166}	17.7	X	2.16441	192.52423	196.69434	2.48759	0.2118447	0.29746410	2.2225234	21	—	—
401924 2001 YZ_{50}	16.8	X	133.05754	143.47661	275.35659	8.27988	0.2979833	0.21847032	2.7302836	21	4 5.0	21.5
401925 2002 AT_{15}	18.3	X	201.34417	266.47139	108.42659	36.38092	0.4752680	0.37815241	1.8939047	21	4 16.1	23.1
401926 2002 AF_{167}	16.3	X	140.94270	109.47997	311.22556	9.77581	0.3724247	0.21665389	2.7455228	21	4 18.0	21.4
401927 2002 AH_{178}	17.4	X	238.68770	108.31676	322.37567	10.95861	0.1863291	0.28055377	2.3109576	21	7 21.1	20.8
401928 2002 CF_{10}	17.6	X	64.62825	104.92792	340.19127	18.38427	0.1110868	0.35842052	1.9627914	21	—	—
401929 2002 CC_{88}	17.2	X	141.44527	313.18273	114.85213	5.53488	0.2889074	0.21722456	2.7407122	21	4 28.4	21.9
401930 2002 CK_{150}	16.3	X	322.73882	89.08307	48.47709	2.86967	0.0658024	0.19736744	2.9215885	21	—	—
401931 2002 CU_{156}	17.6	X	163.63260	190.69051	323.75775	6.83746	0.1350602	0.27940105	2.3173094	21	8 25.8	20.9
401932 2002 CD_{182}	17.4	X	291.62067	85.12479	328.46375	6.81338	0.1012530	0.28511205	2.2862602	21	9 19.1	19.8
401933 2002 CR_{201}	17.9	X	218.18069	104.34222	340.86794	5.30626	0.1559797	0.27830030	2.3234158	21	7 21.0	21.3
401934 2002 CA_{206}	17.8	X	72.60794	23.86572	146.18019	5.50868	0.1568538	0.26654218	2.3912524	21	6 2.9	20.5
401935 2002 CW_{208}	17.7	X	119.17664	101.85313	30.40355	2.03917	0.1348464	0.26908635	2.3761559	21	6 8.3	20.8
401936 2002 CN_{260}	16.6	X	120.91339	262.58591	134.36714	11.33786	0.3267048	0.21058399	2.7980308	21	3 9.5	21.1
401937 2002 CF_{314}	17.6	X	67.92450	42.89675	147.87358	10.10240	0.0572593	0.26841522	2.3801151	21	6 9.9	20.6
401938 2002 EY_{47}	16.4	X	279.65346	151.29932	344.91269	8.82829	0.1176325	0.18918637	3.0052192	21	12 4.1	20.4
401939 2002 EH_{51}	16.3	X	11.87598	71.86892	351.55808	9.24013	0.0309392	0.19186579	2.9771749	21	—	—
401940 2002 EK_{76}	16.2	X	130.11239	278.44385	351.06105	11.59772	0.0547948	0.18452177	3.0556550	21	11 29.2	21.0
401941 2002 EL_{95}	16.9	X	293.44633	57.05976	354.38638	5.59540	0.1585164	0.28321915	2.2964358	21	9 12.5	19.2
401942 2002 EP_{143}	17.9	X	11.11958	197.71949	25.72879	2.34770	0.1741429	0.26185793	2.4196853	21	4 21.4	19.8
401943 2002 GE_{115}	17.6	X	139.73245	355.90185	170.50212	8.75083	0.1384539	0.27238178	2.3569517	21	8 16.1	21.1
401944 2002 GT_{187}	17.4	X	24.18513	174.15005	46.92980	5.91972	0.1761152	0.26263665	2.4149001	21	5 18.8	19.1
401945 2002 JA_{118}	17.2	X	322.71343	125.29877	156.55610	9.88548	0.2505696	0.25655108	2.4529394	21	4 4.7	20.1
401946 2002 JC_{150}	17.5	X	311.23630	209.77562	72.36191	8.25685	0.1080470	0.25681493	2.4512590	21	4 12.8	20.6
401947 2002 PH_2	15.8	X	140.31243	53.53876	245.15332	13.46141	0.2571199	0.17471699	3.1689298	21	—	—
401948 2002 PS_{179}	17.7	X	258.79671	212.52246	161.96529	6.99844	0.2186655	0.25143206	2.4861211	21	5 24.7	21.6
401949 2002 QT_{70}	16.6	X	49.86457	56.76908	322.28737	1.78070	0.1582330	0.16907963	3.2389820	21	—	—
401950 2002 QW_{81}	17.7	X	208.18629	282.75679	94.40904	4.30832	0.1883645	0.24334773	2.5408821	21	4 14.7	22.0
401951 2002 QT_{111}	16.7	X	266.20366	240.17113	305.20463	9.68261	0.1223805	0.22791250	2.6543445	21	—	—
401952 2002 QN_{122}	17.3	X	285.53458	224.50758	54.49770	2.36561	0.1395179	0.24609084	2.5219651	21	2 28.5	20.8
401953 2002 RW_5	16.3	X	256.29059	339.03474	317.32933	13.80270	0.0923722	0.24045707	2.5612050	21	2 20.3	20.1
401954 2002 RW_{25}	18.8	X	251.05369	72.13957	91.96553	1.34936	0.2866317	1.31610620	0.8246609	21	—	—
401955 2002 RY_{28}	16.7	X	184.69435	176.86778	184.29676	5.03587	0.2327273	0.23920323	2.5701473	21	3 5.5	21.2
401956 2002 RK_{29}	17.4	X	193.77652	36.81313	298.17568	3.77971	0.2677954	0.23665271	2.5885808	21	2 10.9	22.0
401957 2002 RJ_{241}	17.1	X	185.37232	156.71402	218.27050	3.50926	0.0846977	0.24034525	2.5619994	21	3 16.8	21.0
401958 2002 RY_{248}	15.9	X	341.84077	32.05110	345.84696	9.49004	0.0616770	0.15868840	3.3788787	21	10 4.9	20.4
401959 2002 RJ_{250}	17.3	X	211.76881	4.59745	7.17696	1.96679	0.1680463	0.24489651	2.5301581	21	4 9.1	21.3
401960 2002 RL_{262}	17.0	X	116.67763	217.47383	237.59677	4.05243	0.2420379	0.23713046	2.5851028	21	5 1.4	20.8
401961 2002 RO_{278}	15.6	X	73.86181	39.04331	359.03202	15.05756	0.1892968	0.17209317	3.2010586	21	—	—
401962 2002 ST_{21}	17.7	X	208.64671	18.77218	12.56233	3.57389	0.2422736	0.24295795	2.5435989	21	4 28.9	22.1
401963 2002 SW_{21}	17.3	X	222.93648	354.56344	13.87477	6.28051	0.2183465	0.24294967	2.5436568	21	4 13.0	21.6
401964 2002 SA_{40}	17.0	X	221.68466	307.92860	27.32254	12.36957	0.2067753	0.23963997	2.5670237	21	3 9.2	21.4
401965 2002 TJ_{99}	17.6	X	195.28298	62.51749	324.04015	11.56337	0.2563208	0.24083167	2.5585485	21	4 8.2	22.3
401966 2002 TP_{132}	17.0	X	141.50007	162.84004	268.29257	3.73230	0.2256070	0.23652621	2.5895037	21	4 22.6	21.2
401967 2002 TK_{135}	17.3	X	200.22438	270.55919	92.47556	5.88195	0.2753292	0.23808261	2.5782059	21	3 23.7	22.0
401968 2002 TE_{138}	18.7	X	240.28445	35.71216	338.31053	5.92956	0.4300632	0.24550142	2.5260002	21	4 21.3	23.7
401969 2002 TY_{144}	17.5	X	204.62967	285.60536	107.18439	8.28428	0.3099076	0.24144937	2.5541829	21	4 30.9	22.3
401970 2002 TB_{185}	17.3	X	230.57153	15.16206	339.92966	3.74963	0.2735591	0.24293972	2.5437262	21	3 31.4	21.8
401971 2002 TE_{195}	17.3	X	171.17932	43.27507	29.13850	7.24725	0.3219252	0.23906994	2.5711025	21	5 21.9	22.1
401972 2002 TN_{199}	15.4	X	191.78703	123.33653	272.97989	27.47170	0.2603729	0.23680826	2.5874472	21	4 14.8	20.6
401973 2002 TC_{251}	17.0	X	142.83276	3.48539	42.69570	14.72700	0.2386441	0.23229200	2.6208765	21	4 1.3	21.3
401974 2002 TG_{257}	17.6	X	179.31980	6.51884	41.62427	6.67327	0.3073763	0.23845890	2.5754929	21	4 29.4	22.2
401975 2002 TJ_{273}	17.9	X	231.58792	91.75207	272.09567	2.71170	0.3090637	0.24339508	2.5405526	21	4 10.0	22.5
401976 2002 TO_{336}	17.3	X	202.30970	307.69435	64.31477	3.96640	0.1141485	0.23980532	2.5658435	21	4 3.3	21.2
401977 2002 TZ_{380}	17.4	X	248.14588	305.16754	5.21776	4.69646	0.1931607	0.24045116	2.5612470	21	2 26.1	21.4
401978 2002 UL_{16}	17.3	X	209.10754	262.12703	122.90764	4.96503	0.2705227	0.24085655	2.5583723	21	4 24.1	21.9
401979 2002 UC_{32}	18.7	X	236.35438	32.96757	343.27719	5.85793	0.3754144	0.24504035	2.5291678	21	4 24.1	23.6
401980 2002 VV_{42}	17.9	X	187.37692	344.28327	62.80807	5.46120	0.2782610	0.23926039	2.5697380	21	5 3.9	22.6
401981 2002 VK_{43}	17.2	X	168.45582	187.35063	179.72816	5.25637	0.2915268	0.23293122	2.6160794	21	3 3.6	21.8
401982 2002 VO_{61}	17.7	X	166.68272	137.85421	269.54510	3.11698	0.2929362	0.23628935	2.5912339	21	4 18.1	22.3
401983 2002 VE_{73}	17.9	X	219.65236	200.65672	198.45504	4.47661	0.2879908	0.24308165	2.5427360	21	5 16.8	22.3
401984 2002 VU_{115}	17.4	X	148.36141	338.00256	83.21596	5.37981	0.2554812	0.23457953	2.6038101	21	4 22.1	21.8
401985 2002 VA_{120}	17.9	X	97.02296	188.05116	252.39780	19.41522	0.0586098	0.38691927	1.8651874	21	1 9.5	19.6
401986 2002 VX_{142}	17.1	X	185.28749	289.99721	73.83042	5.91143	0.1569617	0.23376850	2.6098290	21	3 10.8	21.3
401987 2002 WE_1	17.8	X	202.83363	80.03948	239.54052	18.80266	0.0343873	0.38630139	1.8671758	21	—	—
401988 2002 WD_{26}	17.9	X	181.48358	344.55815	84.78932	7.03522	0.0600727	0.29274732	2.2463328	21	5 20.9	20.8
401989 2002 WN_{31}	17.2	X	204.45186	292.18543	114.06419	5.28334	0.1908035	0.23976440	2.5661355	21	5 17.3	21.4
401990 2002 XR_{51}	17.1	X	205.86239	316.73349	87.87181	2.42862	0.2446340	0.23981765	2.5657556	21	5 14.3	21.6
401991 2002 YZ_{11}	15.0	X	175.70035	83.77235	312.33894	27.77905	0.3434090	0.23140199	2.6275924	21	3 28.1	20.5
401992 2003 AC_5	17.8	X	156.82276	276.07701	142.52897	5.66221	0.3508676	0.23430422	2.6058494	21	4 30.6	22.6
401993 2003 AB_{94}	17.3	X	136.29587	101.57975	342.40883	12.86163	0.2653751	0.23040865	2.6351390	21	5 3.6	21.9
401994 2003 BS_{27}	16.6	X	199.95259	271.74746	151.94080	11.80614	0.3980673	0.23770091	2.5809652	21	6 1.8	21.9
401995 2003 CR_3	16.7	X	116.09417	129.49639	333.09464	12.83994	0.2130145	0.22788821	2.6545331	21	5 2.4	20.9
401996 2003 FJ_{95}	16.2	X	156.27549	318.68203	193.47319	19.13687	0.1782037	0.18116537	3.0932802	21	8 9.1	21.6
401997 2003 GH_{56}	17.2	X	13.92447	187.57974	84.22742	6.22181	0.1556907	0.28049131	2.3113006	21	7 20.0	19.0
401998 2003 MO	18.4	X	173.56755	164.63096	240.07484	21.44259	0.8758550	0.35664028	1.9693177	21	4 29.8	23.6
401999 2003 NG	17.4	X	355.52088	163.87077	122.32038	5.55662	0.2745770	0.27309904	2.3528230	21	6 24.4	18.4
402000 2003 OK_{32}	16.8	X	87.43755	359.69212	319.55292	6.59882	0.1071658	0.17928632	3.1148558	21	12 18.9	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402001 2003 PR_8	15.8	X	107.61197	27.11358	307.04195	12.64665	0.2553079	0.18274016	3.0754834	21	—	—
402002 2003 QL	16.2	X	75.22390	9.61861	321.48854	9.68252	0.2170182	0.17688555	3.1429766	21	—	—
402003 2003 QG_{10}	15.8	X	103.19376	174.77045	149.56342	18.89042	0.1935912	0.17992583	3.1074707	21	—	—
402004 2003 QU_{32}	16.3	X	68.26273	9.16471	327.75282	13.59125	0.3086802	0.17560848	3.1581959	21	—	—
402005 2003 QV_{34}	15.2	X	97.35954	329.74482	329.84576	12.50856	0.1721259	0.17704867	3.1410459	21	12 10.8	20.4
402006 2003 QY_{34}	15.9	X	83.96734	13.66076	340.30547	15.31788	0.2279714	0.17947127	3.1127155	21	—	—
402007 2003 QZ_{51}	15.6	X	55.70909	33.29811	344.47863	18.14928	0.2275175	0.17815343	3.1280470	21	—	—
402008 2003 QZ_{69}	17.8	X	251.54509	148.82410	267.79435	3.94344	0.1847455	0.26743749	2.3859126	21	7 13.9	21.3
402009 2003 QV_{94}	15.6	X	40.98134	55.59741	320.90267	26.36608	0.2704037	0.17432626	3.1736633	21	—	—
402010 2003 QP_{104}	16.8	X	182.44076	80.32573	353.15931	12.97248	0.3823938	0.25528133	2.4610665	21	5 29.1	21.8
402011 2003 RN_7	16.8	X	300.96492	23.54177	343.23045	10.92354	0.2591704	0.26745704	2.3857963	21	6 29.9	19.6
402012 2003 RF_{15}	15.9	X	82.32921	63.84834	281.99639	9.78071	0.2034425	0.17757443	3.1348428	21	—	—
402013 2003 RZ_{24}	17.8	X	346.21317	156.65976	150.58393	2.85662	0.2252608	0.27056138	2.3675119	21	7 8.7	19.1
402014 2003 RA_{27}	15.6	X	81.18646	5.25074	323.30624	8.49583	0.0762788	0.17434445	3.1734424	21	12 18.9	20.3
402015 2003 SY_{24}	16.3	X	13.98170	74.40471	315.69891	7.75719	0.2108026	0.17157713	3.2074738	21	12 26.6	20.2
402016 2003 SB_{28}	17.4	X	220.67639	167.19157	240.66708	3.95512	0.2125582	0.26025386	2.4296176	21	5 30.6	21.3
402017 2003 SD_{32}	16.9	X	209.90513	101.11795	306.36148	10.64385	0.1879887	0.25814642	2.4428229	21	5 19.0	21.1
402018 2003 SK_{34}	15.8	X	62.86004	317.81604	6.21189	10.23608	0.0430897	0.17077865	3.2174637	21	11 14.4	20.4
402019 2003 SE_{39}	17.3	X	326.12793	341.47009	349.82557	2.64389	0.2263527	0.26873842	2.3782064	21	6 28.4	19.1
402020 2003 SU_{54}	16.2	X	71.77646	136.18256	211.69006	9.62221	0.2231326	0.17574123	3.1566052	21	—	—
402021 2003 SY_{59}	15.9	X	59.03408	184.89307	166.77129	29.53211	0.2008081	0.17438314	3.1729730	21	—	—
402022 2003 SK_{83}	18.2	X	306.50933	253.39486	50.71750	1.73056	0.1815109	0.26250238	2.4157235	21	4 20.3	21.0
402023 2003 SP_{87}	17.1	X	292.97913	332.48319	56.73681	6.80629	0.2468365	0.26952927	2.3735521	21	7 23.2	19.8
402024 2003 SB_{88}	15.6	X	69.60355	101.00391	271.74639	14.47901	0.2670352	0.17873704	3.1212341	21	—	—
402025 2003 SA_{101}	17.4	X	85.90363	89.48813	337.77022	17.45361	0.1266538	0.35414748	1.9785481	21	—	—
402026 2003 SC_{113}	16.1	X	69.26775	110.21555	258.13843	9.53379	0.1886291	0.17928579	3.1148619	21	—	—
402027 2003 SG_{155}	17.4	X	304.50979	74.20948	245.75770	1.52877	0.2183713	0.26365469	2.4086797	21	5 3.1	20.3
402028 2003 SV_{157}	15.8	X	32.52205	83.05882	354.77362	14.47550	0.2671694	0.17861385	3.1226691	21	—	—
402029 2003 SY_{164}	17.5	X	264.13647	237.95811	172.13126	5.07954	0.1815424	0.26593265	2.3949049	21	7 20.1	20.7
402030 2003 SH_{173}	17.3	X	241.68827	300.63812	79.46446	3.37351	0.2168837	0.26069418	2.4268811	21	5 14.1	21.2
402031 2003 SQ_{175}	16.4	X	70.86736	338.71544	39.47154	1.94380	0.1694932	0.17908768	3.1171586	21	—	—
402032 2003 SD_{185}	16.1	X	11.81086	50.64747	353.22922	16.00832	0.2605284	0.17112253	3.2131518	21	—	—
402033 2003 SE_{187}	17.8	X	264.27002	301.15167	53.60159	3.14883	0.1936820	0.26163349	2.4210689	21	5 5.3	21.4
402034 2003 SP_{206}	17.4	X	262.10710	31.23920	355.18521	6.59847	0.1431465	0.26442176	2.4040192	21	6 20.9	20.8
402035 2003 SO_{209}	16.2	X	21.58361	42.08728	345.47943	12.50102	0.1701711	0.17201038	3.2020857	21	12 30.3	20.5
402036 2003 SB_{223}	16.6	X	50.53488	165.52156	199.97251	14.94920	0.2653953	0.17258394	3.1949873	21	—	—
402037 2003 SE_{224}	15.6	X	171.17859	275.13541	347.01792	13.16486	0.0908440	0.17772299	3.1330956	21	—	—
402038 2003 SQ_{229}	16.2	X	45.86240	316.27881	49.94685	5.58597	0.1644848	0.17133909	3.2104439	21	—	—
402039 2003 SS_{229}	17.5	X	298.47538	300.79404	58.63592	3.22621	0.1361087	0.26543685	2.3978862	21	7 5.6	20.0
402040 2003 SY_{245}	17.8	X	275.11843	315.78388	19.10652	2.32229	0.2269606	0.26154102	2.4216396	21	4 16.5	21.1
402041 2003 SV_{270}	17.9	X	241.43683	300.87728	90.54459	3.25855	0.2017192	0.26155108	2.4215775	21	5 29.4	21.6
402042 2003 SK_{272}	17.5	X	223.28910	66.98376	335.23562	6.30990	0.1779091	0.25999417	2.4312352	21	5 25.9	21.5
402043 2003 ST_{274}	17.9	X	262.38081	228.79162	144.10545	1.97071	0.2032140	0.26244148	2.4160972	21	5 26.5	21.3
402044 2003 SY_{277}	15.8	X	37.30076	57.35369	348.11485	12.58043	0.0924987	0.17620049	3.1511178	21	—	—
402045 2003 SP_{279}	17.8	X	260.40769	60.51726	330.83736	9.69659	0.2146316	0.26542495	2.3979579	21	6 16.2	21.4
402046 2003 SD_{281}	17.7	X	291.49070	147.08620	188.81722	2.08572	0.2070833	0.26323531	2.4112373	21	5 10.2	20.7
402047 2003 SR_{288}	16.7	X	25.36228	353.99751	49.90850	6.82593	0.2531861	0.17396967	3.1779985	21	—	—
402048 2003 SZ_{292}	16.1	X	59.20757	13.91301	350.35103	17.16543	0.2288560	0.17502708	3.1651858	21	—	—
402049 2003 SD_{301}	17.1	X	316.16047	38.31577	289.60090	5.83610	0.1270559	0.26641816	2.3919944	21	6 19.3	19.5
402050 2003 SZ_{311}	16.3	X	81.15414	26.88812	335.66124	17.90325	0.2068225	0.17965814	3.1105566	21	—	—
402051 2003 SW_{314}	16.9	X	11.87388	116.29509	280.92137	3.25168	0.1715787	0.17266924	3.1939350	21	12 26.6	20.7
402052 2003 SU_{323}	16.9	X	63.55710	27.20584	335.83756	6.47132	0.1613827	0.17656651	3.1467615	21	—	—
402053 2003 SY_{328}	18.3	X	209.76640	355.13424	58.43199	2.57546	0.1673326	0.25944039	2.4346936	21	5 29.7	22.1
402054 2003 SF_{330}	16.6	X	18.05911	74.00968	304.62530	0.71841	0.1676119	0.17079696	3.2172338	21	12 11.9	20.7
402055 2003 SN_{333}	15.9	X	94.97505	307.44556	0.29387	14.85697	0.0860133	0.17406663	3.1768182	21	12 7.9	20.9
402056 2003 SM_{338}	17.9	X	279.75243	326.16594	26.12662	5.61488	0.1321418	0.26348647	2.4097048	21	5 27.6	20.9
402057 2003 SX_{348}	17.9	X	316.40685	283.79385	11.43282	1.36965	0.1686731	0.26280288	2.4138816	21	4 24.2	20.7
402058 2003 ST_{372}	17.9	X	198.33482	60.84934	347.03022	3.64073	0.0844454	0.25875311	2.4390030	21	5 11.2	21.4
402059 2003 SJ_{395}	17.6	X	223.22158	291.59131	126.16719	6.56626	0.1480859	0.26111497	2.4242731	21	6 19.1	21.3
402060 2003 SF_{403}	17.8	X	119.33559	218.68927	190.04941	6.33215	0.1221289	0.24657498	2.5186629	21	2 14.9	21.3
402061 2003 SX_{427}	16.1	X	12.16567	34.87613	354.47265	9.23158	0.1523466	0.17215184	3.2003313	21	12 13.9	20.2
402062 2003 SE_{428}	16.0	X	31.12288	1.65490	358.63132	11.15460	0.1058521	0.17169583	3.2059953	21	11 27.2	20.5
402063 2003 SU_{430}	17.6	X	285.07440	326.67098	344.87456	6.22611	0.1808063	0.25796924	2.4439413	21	4 1.3	21.1
402064 2003 TW_6	17.4	X	305.39748	275.06431	54.00200	11.31240	0.3076336	0.26606758	2.3940951	21	5 3.8	20.4
402065 2003 TE_{10}	15.7	X	23.98357	90.38019	311.94642	24.45003	0.2747263	0.17227907	3.1987554	21	—	—
402066 2003 TY_{12}	15.8	X	97.57411	349.73926	1.83476	12.08776	0.3199677	0.17852445	3.1237115	21	—	—
402067 2003 TF_{26}	17.8	X	251.87042	4.31772	349.65216	6.40857	0.1675571	0.25910473	2.4367959	21	4 21.5	21.6
402068 2003 TB_{38}	17.2	X	188.88020	131.27508	279.75845	5.37966	0.1116646	0.25560771	2.4589711	21	5 4.9	21.0
402069 2003 TV_{44}	16.7	X	14.15435	80.79465	316.82445	6.80343	0.0956393	0.17111594	3.2132343	21	12 21.0	21.0
402070 2003 UB_{25}	17.6	X	311.51184	61.11018	268.87335	4.13555	0.2253340	0.26505664	2.4001788	21	5 27.4	20.0
402071 2003 UD_{29}	17.7	X	230.78090	24.59801	31.03871	1.55920	0.1692854	0.26042771	2.4285362	21	6 22.2	21.4
402072 2003 UW_{32}	17.8	X	250.94505	344.26259	39.31471	2.87292	0.1949612	0.26131646	2.4230267	21	5 28.7	21.3
402073 2003 UE_{107}	15.1	X	64.72717	24.10033	332.75193	27.59803	0.1934266	0.17612220	3.1520515	21	—	—
402074 2003 UE_{113}	16.7	X	316.14817	179.92316	152.40354	7.68320	0.2699537	0.26625202	2.3929894	21	6 1.9	19.2
402075 2003 UG_{128}	16.3	X	53.59594	31.17785	333.02127	5.87090	0.2436490	0.17190180	3.2034339	21	—	—
402076 2003 UF_{193}	18.1	X	261.99030	73.46298	325.77398	1.90082	0.1897699	0.26564314	2.3966446	21	7 2.3	21.4
402077 2003 US_{199}	17.3	X	241.00829	336.54440	58.51707	2.19151	0.1897592	0.26097434	2.4251439	21	6 3.4	21.1
402078 2003 UM_{202}	17.6	X	221.36467	317.16991	81.02107	3.14040	0.1901790	0.25766780	2.4458470	21	5 20.3	21.5
402079 2003 UX_{208}	18.2	X	239.24323	65.41292	341.51951	1.97692	0.2170803	0.26152669	2.4217280	21	6 14.9	22.1
402080 2003 UP_{209}	17.5	X	204.91433	306.37756	112.58155	2.47516	0.1755761	0.25828704	2.4419362	21	6 1.4	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402081 2003 UB_{214}	16.3	X	27.96484	4.72335	18.29114	4.88243	0.1531342	0.17048253	3.2211885	21	12 29.7	20.6
402082 2003 UK_{214}	18.1	X	242.42001	94.75831	295.85188	0.69183	0.1858757	0.26047465	2.4282444	21	5 30.4	21.7
402083 2003 UH_{215}	17.8	X	284.57421	267.64968	61.42456	3.64531	0.1842351	0.26008186	2.4306887	21	4 26.0	20.9
402084 2003 UC_{225}	17.8	X	218.40003	111.80984	279.69224	2.51591	0.1765459	0.25649389	2.4533040	21	5 8.6	21.6
402085 2003 UN_{226}	17.3	X	234.23587	164.82319	251.52553	4.37121	0.1685840	0.26099931	2.4249892	21	6 26.6	20.8
402086 2003 UO_{233}	17.4	X	254.60047	35.38673	310.47443	3.16856	0.1485887	0.25597024	2.4566488	21	4 16.6	21.0
402087 2003 UN_{241}	17.7	X	186.17256	253.25881	171.83369	1.53395	0.1648867	0.25547038	2.4598522	21	5 23.1	21.6
402088 2003 UN_{255}	17.4	X	275.30021	314.44938	82.35471	4.60833	0.1834482	0.26573812	2.3960735	21	7 17.4	20.3
402089 2003 UP_{255}	17.3	X	235.40724	324.65008	78.47518	4.57993	0.1744007	0.26023332	2.4297455	21	6 9.9	20.9
402090 2003 UU_{255}	17.6	X	247.85440	306.91912	94.71238	3.65196	0.2136843	0.26181286	2.4199631	21	6 16.9	21.1
402091 2003 UC_{267}	15.8	X	78.93016	186.14208	217.46023	9.11909	0.1451491	0.17975506	3.1094385	21	1 2.5	19.9
402092 2003 UG_{268}	17.4	X	250.09322	318.81775	50.28169	3.16649	0.2074358	0.25894152	2.4378197	21	5 8.2	21.0
402093 2003 UF_{280}	17.2	X	272.22222	201.49040	162.11679	5.13637	0.2162453	0.26091393	2.4255182	21	5 24.2	20.7
402094 2003 UQ_{297}	18.1	X	226.47532	38.62631	343.28257	2.54422	0.1688089	0.25706515	2.4496681	21	5 3.9	22.0
402095 2003 UC_{308}	17.5	X	339.23805	307.07329	42.40613	1.67013	0.2199312	0.26954229	2.3734756	21	9 7.3	18.8
402096 2003 US_{315}	17.7	X	207.07530	308.92561	96.21217	5.06214	0.1847383	0.25698932	2.4501500	21	5 17.2	21.6
402097 2003 UP_{317}	17.3	X	35.62576	1.69701	1.37706	6.10416	0.1503174	0.17162199	3.2069149	21	12 14.9	21.6
402098 2003 WK_{3}	17.2	X	226.61997	303.70235	85.50058	3.49629	0.2009531	0.25633800	2.4542985	21	5 13.4	21.2
402099 2003 WN_{13}	17.9	X	244.05821	80.69104	294.44378	1.15781	0.2060261	0.25823311	2.4422761	21	5 9.9	21.7
402100 2003 WW_{38}	16.3	X	187.63498	32.76361	353.76566	8.23070	0.1879845	0.24672875	2.5176163	21	4 4.4	20.6
402101 2003 WD_{65}	17.6	X	282.54590	286.22173	79.50902	2.34435	0.2180122	0.26215969	2.4178282	21	6 7.1	20.6
402102 2003 WX_{106}	17.2	X	223.72706	118.97856	318.62724	6.16543	0.0665117	0.26340109	2.4102254	21	7 24.5	20.5
402103 2003 WM_{109}	18.1	X	237.97390	138.05377	266.99971	5.74020	0.3190084	0.26020855	2.4298996	21	6 3.8	22.4
402104 2003 WT_{158}	17.5	X	263.90008	313.51222	84.11153	3.63750	0.2188029	0.26298247	2.4127825	21	6 28.2	20.8
402105 2003 XP_{12}	16.8	X	235.00073	62.74187	327.22830	11.63046	0.2141804	0.25494335	2.4632411	21	5 16.9	21.0
402106 2003 XQ_{24}	17.2	X	225.72859	59.02681	322.33494	5.80563	0.1154716	0.25431607	2.4672899	21	5 4.2	21.0
402107 2003 YB_{47}	17.6	X	221.58669	321.74369	93.31530	3.45354	0.1862852	0.25681152	2.4512807	21	6 11.3	21.5
402108 2003 YZ_{89}	16.5	X	12.24029	212.26820	302.81920	12.44612	0.1090419	0.23231613	2.6206949	21	1 23.5	19.5
402109 2004 AS_{9}	17.5	X	76.96991	170.78852	310.14621	4.11248	0.2328131	0.23796530	2.5790531	21	4 11.9	20.5
402110 2004 BE_{20}	16.5	X	151.94811	28.50481	57.87712	7.13622	0.2367915	0.24500858	2.5293864	21	5 22.3	20.7
402111 2004 BZ_{65}	17.2	X	135.53045	278.72908	152.47521	2.75038	0.1347289	0.24148159	2.5539557	21	4 9.6	20.8
402112 2004 BO_{102}	16.5	X	119.27485	115.37661	325.56772	21.75828	0.0728202	0.23736803	2.5833776	21	3 14.9	20.3
402113 2004 BY_{105}	17.0	X	93.75327	99.10055	31.58727	4.41535	0.1098408	0.24118532	2.5560468	21	5 1.7	20.2
402114 2004 BA_{112}	16.9	X	55.71168	208.74099	308.29378	4.02587	0.1141701	0.23769142	2.5810339	21	4 8.8	19.8
402115 2004 BK_{162}	16.2	X	150.29653	50.32254	322.79791	21.50844	0.0357874	0.23195528	2.6234123	21	2 2.6	19.8
402116 2004 CT_{2}	16.4	X	349.78237	214.61820	306.11244	12.30383	0.1063420	0.22636089	2.6664603	21	—	—
402117 2004 CN_{12}	17.0	X	114.25512	327.77985	137.38942	12.79169	0.1144528	0.24065172	2.5598237	21	4 30.7	20.7
402118 2004 CB_{18}	16.9	X	45.24100	34.41598	118.02493	4.27255	0.1068670	0.23513305	2.5997221	21	3 19.3	19.7
402119 2004 CM_{39}	16.6	X	55.70195	19.14834	125.16849	17.82375	0.1380054	0.23453820	2.6041160	21	4 4.4	19.8
402120 2004 CJ_{55}	16.9	X	293.00690	314.91440	327.14083	3.89975	0.0736053	0.23525813	2.5988006	21	3 21.5	20.4
402121 2004 CP_{118}	17.5	X	71.46434	49.46774	64.88962	2.34866	0.0899005	0.23491830	2.6013063	21	3 6.9	20.6
402122 2004 DR_{28}	17.1	X	81.56080	347.49835	116.60534	4.04322	0.1270207	0.23365483	2.6106754	21	3 14.4	20.2
402123 2004 EK_{3}	16.6	X	149.82415	52.37353	28.22248	17.89096	0.2151299	0.24171916	2.5522820	21	5 8.4	20.8
402124 2004 ER_{36}	16.5	X	310.67516	174.34492	353.82693	8.21162	0.2370192	0.21874418	2.7280042	21	—	—
402125 2004 ER_{52}	16.4	X	88.18913	293.84612	163.54014	14.02435	0.0239929	0.22943861	2.6425612	21	2 26.9	19.7
402126 2004 EW_{92}	16.4	X	239.83220	100.03543	146.77938	12.90636	0.1957327	0.21497925	2.7597624	21	—	—
402127 2004 FK_{119}	17.4	X	31.27205	121.62233	10.91253	4.04707	0.0888075	0.22709859	2.6606827	21	1 28.1	20.4
402128 2004 GE_{30}	16.7	X	257.04884	168.93822	29.38862	8.47420	0.1469779	0.21211604	2.7845416	21	—	—
402129 2004 GS_{76}	16.6	X	243.74020	107.89870	117.25232	9.27012	0.2325216	0.21278772	2.7786788	21	—	—
402130 2004 HS_{42}	16.1	X	229.93683	17.42872	232.27850	7.87803	0.2165340	0.21205894	2.7850414	21	—	—
402131 2004 LB_{30}	18.2	X	83.12292	157.95886	126.48288	7.81656	0.1405396	0.30216707	2.1994020	21	11 26.8	21.3
402132 2004 OR_{1}	16.2	X	122.01153	212.92803	145.53913	12.65446	0.2392794	0.19932172	2.9024604	21	1 12.4	20.6
402133 2004 PN_{26}	17.1	X	120.88420	225.33538	135.79054	7.50100	0.2772397	0.19762011	2.9190976	21	1 19.6	21.4
402134 2004 PD_{29}	16.2	X	2.99397	157.86038	205.75994	7.72987	0.2266156	0.17887681	3.1196080	21	11 6.7	19.4
402135 2004 PY_{29}	16.5	X	178.81481	314.02308	332.90689	14.76138	0.2515767	0.19883354	2.9072092	21	—	—
402136 2004 PE_{60}	17.9	X	169.48420	88.63385	319.09055	18.81054	0.1461810	0.38801075	1.8616879	21	3 20.6	20.5
402137 2004 PP_{93}	17.7	X	335.49649	252.05869	148.59126	8.48993	0.2440635	0.29434476	2.2381981	21	12 10.2	19.1
402138 2004 PC_{97}	17.2	X	142.13697	338.63335	7.25132	23.05154	0.5298848	0.19639662	2.9312085	21	2 18.3	23.1
402139 2004 QN_{3}	17.6	X	53.11244	186.29196	179.26950	8.01406	0.3160406	0.30307541	2.1950054	21	—	—
402140 2004 QX_{3}	16.0	X	139.45609	333.84413	338.48257	17.80844	0.1311538	0.19668507	2.9283419	21	—	—
402141 2004 RU_{2}	17.5	X	353.61550	35.73884	342.05248	5.76907	0.1277105	0.29579988	2.2308518	21	11 24.5	19.6
402142 2004 RT_{14}	18.1	X	345.93691	22.01025	341.49940	1.44634	0.2466001	0.29267578	2.2466988	21	10 30.5	19.2
402143 2004 RM_{26}	18.2	X	33.30021	264.72188	51.33396	1.43791	0.2143018	0.29578528	2.2309252	21	11 16.2	20.5
402144 2004 RR_{28}	17.9	X	347.09199	12.36043	350.27472	5.19763	0.2092132	0.29289402	2.2455826	21	10 25.6	19.2
402145 2004 RM_{41}	16.6	X	99.52490	344.13988	357.47052	8.87656	0.1391219	0.19130239	2.9830174	21	—	—
402146 2004 RQ_{49}	17.4	X	332.38688	358.58677	356.14957	6.76161	0.1160951	0.28910860	2.2651417	21	9 6.3	19.2
402147 2004 RV_{67}	16.1	X	7.31353	79.69252	342.43097	11.77931	0.1124534	0.18739327	3.0243594	21	—	—
402148 2004 RH_{74}	15.4	X	325.35000	73.34546	356.04997	15.05238	0.0730792	0.18091046	3.0961852	21	11 15.3	19.7
402149 2004 RM_{113}	18.1	X	45.77778	154.07750	179.28164	2.71724	0.1664550	0.30027582	2.2086275	21	12 19.8	20.9
402150 2004 RR_{139}	18.2	X	10.01672	203.27124	172.76364	2.13426	0.1461128	0.29803014	2.2197084	21	12 25.5	20.4
402151 2004 RX_{146}	17.9	X	280.57010	69.66830	329.09908	4.62874	0.1530398	0.28584014	2.2823763	21	8 3.1	20.5
402152 2004 RQ_{156}	17.6	X	350.24519	53.66805	323.77928	5.40723	0.1808102	0.29430030	2.2384235	21	11 24.4	19.4
402153 2004 RS_{162}	16.2	X	179.29305	101.68132	244.37163	13.57076	0.1642887	0.20344654	2.8630955	21	2 7.6	21.1
402154 2004 RF_{184}	15.7	X	73.91290	196.83261	209.12706	11.45343	0.0506439	0.19687331	2.9264750	21	—	—
402155 2004 RR_{192}	15.7	X	112.17336	13.80697	342.26112	14.80606	0.1933928	0.19190171	2.9768034	21	—	—
402156 2004 RE_{196}	16.6	X	85.63077	25.00206	336.64029	11.45867	0.2678065	0.18899562	3.0072409	21	—	—
402157 2004 RN_{198}	16.2	X	141.61033	53.89355	339.36306	14.36342	0.1566960	0.20251898	2.8718311	21	3 4.6	20.6
402158 2004 RW_{203}	17.5	X	24.64536	109.25630	221.88193	6.46703	0.1737551	0.29498652	2.2349506	21	11 18.1	19.7
402159 2004 RM_{216}	17.1	X	257.63715	101.78817	342.02421	21.04178	0.3352029	0.28339376	2.2954924	21	8 14.5	20.6
402160 2004 RB_{228}	16.1	X	0.11285	49.28565	5.24218	9.71544	0.0752168	0.18154967	3.0889134	21	12 22.3	20.3

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
402161	2004 RK_{228}	16.5	X	104.57982	299.17204	1.48329	6.49194	0.1097791	0.18250005	3.0781803	21	12 14.8	21.3
402162	2004 RE_{229}	17.9	X	35.76174	306.82829	338.40782	3.00457	0.2277107	0.28891171	2.2661707	21	10 6.2	20.1
402163	2004 RB_{241}	17.0	X	87.26963	182.57335	181.48335	1.85329	0.0723800	0.19153502	2.9806016	21	—	—
402164	2004 RK_{257}	16.3	X	109.82162	328.50549	10.35919	6.83083	0.1412093	0.19212513	2.9744952	21	—	—
402165	2004 RY_{265}	16.8	X	83.81696	229.58428	122.81472	2.60448	0.1966879	0.18912133	3.0059081	21	—	—
402166	2004 RK_{268}	18.1	X	291.34809	354.81604	341.03360	3.79688	0.1343487	0.28025815	2.3125824	21	5 18.6	20.8
402167	2004 RX_{304}	17.8	X	357.68274	311.34904	48.73560	4.19782	0.2452452	0.29311331	2.2444625	21	11 24.3	19.2
402168	2004 RB_{323}	15.9	X	78.68859	26.93428	336.96745	12.86280	0.1198866	0.18783249	3.0196428	21	—	—
402169	2004 RW_{329}	16.9	X	18.19669	122.75011	288.17798	8.01661	0.1574266	0.18614422	3.0378734	21	—	—
402170	2004 RJ_{336}	18.2	X	283.46064	157.25159	243.09445	3.16725	0.1166592	0.28413651	2.2914903	21	8 14.2	20.6
402171	2004 RX_{342}	16.0	X	88.78510	65.66811	319.35179	8.66066	0.0763684	0.19497274	2.9454622	21	—	—
402172	2004 SP_{36}	18.2	X	7.41261	357.49762	326.23602	7.25135	0.1707966	0.29138257	2.2533414	21	9 30.2	20.1
402173	2004 SU_{44}	17.4	X	334.54830	28.24326	329.97126	7.01386	0.1406721	0.28871065	2.2672227	21	9 12.7	19.3
402174	2004 SX_{50}	16.9	X	91.37453	176.89338	200.35874	6.04663	0.2805461	0.19109636	2.9851611	21	1 5.3	20.7
402175	2004 TG_{4}	17.5	X	105.79545	289.76938	37.75570	2.25744	0.2138218	0.18790096	3.0189092	21	—	—
402176	2004 TY_{31}	16.3	X	149.11719	304.41769	2.48639	8.99829	0.1127881	0.19026426	2.9938583	21	—	—
402177	2004 TQ_{33}	15.5	X	235.39353	168.13623	13.59406	9.52269	0.1255236	0.18145100	3.0900331	21	11 30.9	20.2
402178	2004 TS_{40}	17.6	X	33.06353	269.90724	14.79274	4.15828	0.1992387	0.28833472	2.2691930	21	9 27.3	19.6
402179	2004 TV_{50}	17.6	X	338.35817	309.35610	7.86833	3.83053	0.1626948	0.28111719	2.3078688	21	7 13.5	19.5
402180	2004 TV_{67}	16.6	X	25.30370	271.58776	152.39401	9.78179	0.3932048	0.18485838	3.0519444	21	—	—
402181	2004 TF_{73}	15.8	X	38.24657	325.08849	26.46187	10.80132	0.0832393	0.17772713	3.1330469	21	11 24.6	20.1
402182	2004 TP_{73}	18.4	X	8.05865	288.50227	25.15294	4.22128	0.1694600	0.28667342	2.2779513	21	9 19.4	20.1
402183	2004 TF_{87}	17.1	X	201.93667	95.43757	19.31546	7.13800	0.0462467	0.28385148	2.2930240	21	8 23.2	20.1
402184	2004 TZ_{97}	16.0	X	71.18789	307.35026	30.36253	7.31851	0.1339731	0.18206389	3.0830945	21	12 26.9	20.6
402185	2004 TC_{98}	17.8	X	322.29350	167.54996	192.63401	6.31294	0.1724694	0.28559355	2.2836898	21	8 14.9	19.6
402186	2004 TN_{101}	16.0	X	124.07966	87.24523	224.32133	9.74177	0.1191484	0.18536463	3.0463851	21	—	—
402187	2004 TN_{105}	17.2	X	50.36831	50.66959	0.82053	1.99725	0.0817821	0.18992955	2.9973746	21	—	—
402188	2004 TQ_{111}	16.6	X	45.50049	11.80602	42.18127	1.92096	0.1200865	0.18792266	3.0186768	21	—	—
402189	2004 TN_{139}	15.8	X	21.37353	69.76920	321.36814	8.29175	0.0814396	0.18216883	3.0819104	21	12 24.1	19.9
402190	2004 TA_{149}	16.9	X	19.98802	85.19941	351.42658	3.39181	0.1807664	0.18703169	3.0282560	21	—	—
402191	2004 TR_{161}	17.7	X	216.70220	75.28062	28.08453	7.23912	0.1705089	0.27927338	2.3180156	21	8 13.9	21.3
402192	2004 TQ_{162}	17.4	X	293.59640	335.12107	34.63021	11.15984	0.1454109	0.28096899	2.3086803	21	7 13.6	20.2
402193	2004 TR_{185}	16.1	X	343.85032	66.06812	4.33735	5.88146	0.1263721	0.18109088	3.0941284	21	12 21.0	19.9
402194	2004 TU_{203}	15.8	X	329.73940	48.25106	41.90649	16.75486	0.2047080	0.17748760	3.1358650	21	12 20.1	19.3
402195	2004 TE_{212}	16.1	X	335.32610	30.58612	31.98652	6.62970	0.1268682	0.17713915	3.1399761	21	11 24.9	19.8
402196	2004 TX_{218}	16.2	X	42.45170	22.42927	7.72358	9.91634	0.1533744	0.18410482	3.0602667	21	—	—
402197	2004 TJ_{228}	16.2	X	289.89732	127.38645	4.92974	5.40525	0.0443591	0.18257717	3.0773135	21	12 21.8	20.5
402198	2004 TK_{277}	17.9	X	272.42568	6.19718	44.31040	7.89118	0.1039862	0.28178583	2.3042165	21	8 20.2	20.7
402199	2004 TR_{285}	15.6	X	26.66025	83.72777	302.06029	8.75111	0.1271319	0.18021687	3.1041242	21	12 30.3	19.7
402200	2004 TE_{287}	17.0	X	12.49808	45.95992	11.43038	1.46573	0.2676966	0.18227783	3.0806816	21	—	—
402201	2004 TX_{367}	16.8	X	295.16812	66.27875	21.96270	5.21288	0.1662827	0.17296976	3.1902344	21	10 19.2	20.8
402202	2004 VC_{14}	17.6	X	261.02566	11.65944	46.35728	7.06087	0.2041189	0.28001713	2.3139092	21	7 27.6	20.7
402203	2004 VW_{20}	17.7	X	263.19582	13.32572	38.14934	4.95279	0.1730618	0.28094680	2.3088018	21	7 25.1	20.6
402204	2004 VZ_{74}	16.8	X	25.37712	317.76767	93.48011	2.34995	0.2742394	0.18289637	3.0737320	21	—	—
402205	2004 VU_{88}	16.7	X	123.76396	12.26073	329.06625	3.29166	0.1611058	0.18877520	3.0095814	21	—	—
402206	2004 VE_{112}	17.7	X	247.71959	347.23586	79.46465	6.09423	0.2171336	0.27913557	2.3187785	21	7 20.9	21.0
402207	2004 WO_{1}	16.6	X	48.81485	22.59131	26.58411	1.77848	0.2234966	0.18537730	3.0462463	21	—	—
402208	2004 XN_{9}	17.3	X	289.18343	327.17533	58.83853	6.51204	0.1751889	0.28036222	2.3120101	21	7 25.5	19.8
402209	2004 XL_{42}	16.6	X	53.94401	324.23021	60.79364	4.47895	0.3190586	0.18265989	3.0763844	21	—	—
402210	2004 XJ_{118}	16.3	X	353.54953	146.79068	277.40295	9.24021	0.2017411	0.17522080	3.1628526	21	—	—
402211	2004 XJ_{119}	15.5	X	24.22012	309.03163	101.24074	16.68406	0.0974336	0.17551878	3.1592717	21	—	—
402212	2004 XE_{124}	15.5	X	30.63902	73.92164	336.02466	15.01626	0.2796011	0.18111020	3.0939083	21	—	—
402213	2004 XG_{146}	17.5	X	156.85952	14.51835	96.88062	6.32018	0.1843922	0.26518614	2.3993973	21	6 24.8	21.4
402214	2004 XV_{165}	16.4	X	339.30040	151.80886	280.59434	9.20826	0.1950416	0.17607865	3.1525713	21	12 17.2	19.7
402215	2004 YW_{13}	17.3	X	127.43013	10.80878	107.57919	5.37737	0.0297938	0.26135470	2.4227904	21	5 18.6	20.4
402216	2005 AQ_{30}	17.9	X	347.74850	175.68339	337.75855	18.59518	0.0709133	0.36038413	1.9556551	21	—	—
402217	2005 AY_{30}	15.5	X	316.33194	2.97606	105.77330	20.04118	0.0804025	0.17257857	3.1950535	21	12 25.1	19.6
402218	2005 AE_{37}	17.6	X	253.48859	294.23456	143.63512	5.21242	0.1980844	0.27647052	2.3336560	21	8 13.5	20.8
402219	2005 AM_{46}	17.9	X	285.00586	196.68295	221.09689	1.42956	0.2626701	0.28035138	2.3120697	21	8 17.5	20.2
402220	2005 AV_{54}	15.6	X	47.64277	99.61061	316.88207	25.19081	0.2161899	0.18188040	3.0851677	21	—	—
402221	2005 CF_{39}	16.4	X	39.80979	354.93091	19.66304	5.22774	0.1344356	0.16922042	3.2371852	21	—	—
402222	2005 CZ_{64}	17.8	X	245.63360	313.67858	108.74544	3.85386	0.1778441	0.27100045	2.3649540	21	7 16.5	21.0
402223	2005 EH_{108}	15.5	X	29.61828	154.21031	329.78886	27.18772	0.1041789	0.18044115	3.1015515	21	1 31.6	19.5
402224	2005 EM_{145}	17.5	X	335.56136	189.37450	14.98533	4.69999	0.1284051	0.24092548	2.5578843	21	1 29.6	20.6
402225	2005 EH_{151}	17.7	X	327.80156	159.98082	46.81457	5.34470	0.1202025	0.23868952	2.5738337	21	1 23.5	21.0
402226	2005 EV_{152}	17.0	X	190.36860	89.77797	163.46981	7.09399	0.1883483	0.22141244	2.7060431	21	—	—
402227	2005 EJ_{206}	17.0	X	85.92262	199.42977	333.18087	5.07354	0.0623727	0.25419139	2.4680966	21	6 9.8	20.1
402228	2005 EK_{207}	16.9	X	106.86115	39.56691	143.13017	6.40178	0.0422410	0.26137207	2.4226830	21	7 20.4	20.0
402229	2005 EH_{245}	17.3	X	312.42996	205.97035	3.93752	4.62072	0.2304036	0.23907001	2.5711021	21	—	—
402230	2005 GX_{1}	17.2	X	302.96879	192.79726	28.38394	8.14832	0.0879460	0.23664621	2.5886282	21	1 15.8	20.9
402231	2005 GB_{45}	17.0	X	209.72731	106.68598	192.41886	12.33698	0.1827587	0.23251897	2.6191706	21	1 9.9	21.6
402232	2005 GN_{50}	16.8	X	306.92007	185.93882	44.24294	5.02519	0.1996399	0.23613602	2.5923555	21	1 16.0	20.5
402233	2005 GG_{52}	17.2	X	286.15555	115.80756	131.04651	0.87642	0.1266436	0.23470717	2.6028660	21	1 22.0	21.0
402234	2005 GA_{67}	17.0	X	184.21656	191.37774	199.78044	4.48435	0.0798660	0.24525963	2.5276601	21	4 5.5	20.8
402235	2005 GE_{87}	17.5	X	199.53706	59.19760	201.63303	11.20652	0.1703115	0.22226814	2.6990934	21	—	—
402236	2005 GK_{100}	17.0	X	275.38672	288.75856	349.90821	11.58956	0.2668823	0.24067548	2.5596553	21	2 8.0	21.3
402237	2005 GR_{146}	17.2	X	331.49609	227.98329	10.88084	3.51907	0.1018301	0.24268241	2.5455239	21	3 13.7	20.2
402238	2005 GG_{159}	16.9	X	2.58644	44.98751	117.25451	13.63708	0.2296711	0.23850031	2.5751948	21	—	—
402239	2005 GK_{221}	16.9	X	285.51593	131.49679	92.70987	12.14985	0.2365300	0.23219677	2.6215930	21	—	—
402240	2005 JW_{87}	17.2	X	310.33801	189.98335	47.07443	4.93060	0.1842241	0.23972444	2.5664207	21	1 30.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402241 2005 JH_{111}	16.6	X	242.81466	191.80978	94.98532	12.40823	0.2073209	0.23073295	2.6326693	21	1 25.2	21.1
402242 2005 JV_{125}	17.3	X	305.92962	53.83783	150.66400	13.61325	0.2004230	0.23070131	2.6329100	21	—	—
402243 2005 JF_{135}	17.5	X	259.70257	89.74246	170.85720	7.41715	0.3264060	0.22921726	2.6442621	21	1 1.2	22.4
402244 2005 JJ_{137}	17.2	X	119.06296	348.55590	151.02913	3.39071	0.1384601	0.25195393	2.4826870	21	6 19.4	20.7
402245 2005 JO_{137}	17.6	X	236.98204	94.30774	214.92048	11.97667	0.2825101	0.23128388	2.6284868	21	2 8.2	22.5
402246 2005 KN_{7}	16.8	X	321.97868	51.88147	137.74930	14.48437	0.2063297	0.23186696	2.6240784	21	—	—
402247 2005 KH_{11}	16.1	X	25.86605	53.47244	118.77982	25.24666	0.1411441	0.23951004	2.5679520	21	3 19.4	19.3
402248 2005 LZ_{31}	17.0	X	274.94905	157.12804	110.06174	9.44998	0.1147585	0.23267070	2.6180318	21	2 7.0	20.8
402249 2005 LF_{39}	16.4	X	164.60584	201.40195	102.83177	14.88653	0.1844445	0.21827896	2.7318791	21	—	—
402250 2005 MK	16.4	X	221.16971	43.96215	260.48577	11.40567	0.1598480	0.22761965	2.6566207	21	1 25.2	21.0
402251 2005 MP_{27}	17.0	X	272.75112	198.41355	130.26706	5.77315	0.1520636	0.23583817	2.5945377	21	4 19.9	20.7
402252 2005 MX_{27}	17.3	X	209.42536	127.17580	157.80537	9.31511	0.1943097	0.21886812	2.7269743	21	—	—
402253 2005 ME_{48}	16.8	X	191.24915	334.72722	276.14249	11.54490	0.2401313	0.21234664	2.7825253	21	—	—
402254 2005 NH_{6}	16.6	X	155.31036	96.56023	278.34409	9.15369	0.1263876	0.22276919	2.6950446	21	2 15.9	20.7
402255 2005 NY_{11}	16.6	X	216.66497	7.79897	295.63211	8.32300	0.2670869	0.22254266	2.6968733	21	1 23.4	21.5
402256 2005 NR_{18}	17.3	X	201.31842	179.59273	137.07414	5.41783	0.0981239	0.22165070	2.7041035	21	1 24.5	21.5
402257 2005 OF_{18}	17.0	X	167.72176	63.14585	262.06222	2.67571	0.0948752	0.21332297	2.7740288	21	1 1.9	21.1
402258 2005 PU_{10}	16.9	X	127.43190	344.71413	36.10033	4.96214	0.2203093	0.21415085	2.7668748	21	2 11.7	21.0
402259 2005 QE_{45}	16.6	X	282.67816	297.49822	358.13559	10.19818	0.1908588	0.22972434	2.6403695	21	3 13.7	20.5
402260 2005 QU_{73}	16.1	X	189.66737	0.48037	343.74985	9.63229	0.2357255	0.21802980	2.7339599	21	2 21.4	20.9
402261 2005 QV_{81}	17.6	X	134.26474	354.11997	1.58243	4.08263	0.2073339	0.21147775	2.7901417	21	1 17.3	21.7
402262 2005 QZ_{122}	18.3	X	58.95092	325.19356	316.06790	0.86469	0.1511612	0.31311639	2.1478248	21	10 25.4	20.7
402263 2005 QO_{131}	17.1	X	121.18685	253.20699	135.05390	6.50146	0.0581451	0.21400384	2.7681418	21	1 20.6	20.8
402264 2005 QU_{135}	17.6	X	158.79163	354.55981	7.62408	4.86161	0.1677053	0.21510062	2.7587241	21	2 13.9	22.0
402265 2005 QD_{157}	16.0	X	214.57253	16.44198	345.74728	15.97447	0.1981987	0.22362024	2.6882025	21	3 27.7	20.6
402266 2005 QM_{164}	16.8	X	144.78717	249.61930	163.02978	13.78604	0.1484271	0.21962835	2.7206778	21	3 31.9	21.0
402267 2005 QE_{166}	17.0	X	149.78936	234.36964	188.83909	12.95718	0.5290156	0.21625426	2.7489042	21	5 9.7	22.7
402268 2005 QE_{169}	16.3	X	149.03304	28.78398	315.86082	20.69772	0.2131139	0.21089273	2.7952992	21	1 21.1	20.8
402269 2005 QP_{172}	16.9	X	220.95397	51.68746	331.22796	6.58669	0.2935830	0.22783939	2.6549123	21	4 25.2	21.9
402270 2005 QB_{188}	16.5	X	175.42948	136.98717	193.55548	7.50232	0.0794005	0.21372494	2.7705495	21	1 13.8	20.8
402271 2005 QD_{190}	17.4	X	143.42984	159.54326	205.15559	3.70547	0.1089730	0.21478350	2.7614389	21	1 23.8	21.5
402272 2005 RS_{19}	17.1	X	195.92930	303.84988	25.75530	3.89759	0.0878287	0.21711690	2.7416182	21	2 5.8	21.2
402273 2005 RF_{27}	16.3	X	184.49737	14.09101	316.29811	13.18819	0.1983924	0.21498234	2.7597360	21	1 31.0	20.9
402274 2005 SC_{13}	17.1	X	127.47956	188.51931	200.53639	3.92070	0.0753901	0.21253086	2.7809171	21	1 31.1	21.0
402275 2005 SR_{20}	16.2	X	184.43170	190.98044	143.98626	13.59103	0.1764251	0.21679296	2.7443485	21	2 3.0	20.8
402276 2005 SR_{27}	17.0	X	157.51850	58.34633	297.05176	3.81534	0.1722099	0.21263114	2.7800427	21	2 3.4	21.4
402277 2005 SU_{53}	17.0	X	203.44137	17.22330	304.12643	3.53025	0.1234323	0.21523951	2.7575372	21	2 2.7	21.4
402278 2005 SS_{91}	17.1	X	136.50933	314.11511	17.43769	1.93230	0.0662087	0.20361036	2.8615597	21	—	—
402279 2005 SP_{96}	16.6	X	94.05224	27.28245	27.89984	9.41099	0.1545298	0.20962849	2.8065267	21	2 7.3	20.3
402280 2005 SU_{98}	17.4	X	165.51019	102.04182	226.66805	8.05235	0.1856921	0.21015154	2.8018679	21	1 10.7	22.0
402281 2005 SC_{118}	16.7	X	117.10368	231.05565	154.97034	9.78946	0.1623811	0.21029605	2.8005842	21	1 27.6	20.6
402282 2005 SU_{121}	16.4	X	209.70516	30.51746	337.51547	10.75904	0.1528959	0.22566832	2.6719130	21	3 31.7	20.8
402283 2005 SR_{141}	17.0	X	166.46723	212.17637	159.52249	4.42010	0.1631053	0.21640422	2.7476341	21	3 2.4	21.3
402284 2005 SL_{162}	15.8	X	110.04663	202.91683	10.80893	9.92678	0.0477260	0.17834191	3.1258426	21	9 4.4	20.3
402285 2005 SE_{164}	16.3	X	210.56371	345.40057	38.25275	15.05554	0.2617067	0.22487011	2.6782322	21	4 23.3	21.1
402286 2005 SR_{174}	16.6	X	189.79538	318.46772	297.46528	4.67119	0.0897801	0.20193573	2.8773583	21	—	—
402287 2005 ST_{175}	16.3	X	45.79545	136.77831	218.14740	9.91111	0.0685910	0.19255865	2.9700291	21	12 11.4	20.5
402288 2005 SP_{180}	16.7	X	180.79819	178.93094	177.91502	9.86297	0.1352423	0.21828745	2.7318082	21	2 22.6	21.1
402289 2005 SZ_{192}	16.3	X	190.39167	323.41567	10.43048	6.67390	0.2872886	0.21549433	2.7553630	21	2 12.8	21.3
402290 2005 SC_{197}	19.3	X	126.52281	142.01697	153.31856	1.54584	0.2494576	0.32660731	2.0882642	21	—	—
402291 2005 SH_{200}	17.1	X	202.90597	259.89919	27.09724	4.53911	0.1918447	0.21131630	2.7915627	21	—	—
402292 2005 SS_{200}	16.6	X	6.99073	79.34348	26.41183	9.60042	0.0884408	0.20305122	2.8668105	21	—	—
402293 2005 SB_{207}	16.6	X	0.04295	168.71679	215.35084	8.16865	0.2220496	0.18828150	3.0148401	21	11 30.3	19.8
402294 2005 SR_{212}	16.8	X	109.13044	54.30974	18.10079	4.06977	0.0860149	0.21378108	2.7700645	21	3 7.5	20.4
402295 2005 SW_{221}	16.8	X	197.69868	204.05746	140.88621	12.92305	0.1992903	0.21976109	2.7195822	21	2 27.7	21.4
402296 2005 SB_{241}	16.6	X	227.54515	134.85063	214.71073	12.15279	0.0912558	0.22283347	2.6945264	21	3 30.7	20.7
402297 2005 SH_{242}	16.9	X	221.73594	287.63889	341.80731	7.03333	0.1902621	0.21096990	2.7946175	21	—	—
402298 2005 SL_{242}	16.9	X	209.59298	294.76290	347.54757	8.83464	0.1421770	0.21002236	2.8030167	21	—	—
402299 2005 SN_{245}	16.8	X	51.64460	34.81659	17.12330	8.74665	0.0580019	0.20168042	2.8797860	21	—	—
402300 2005 SX_{247}	17.0	X	275.82293	254.82758	4.77852	4.16844	0.0190036	0.21493254	2.7601622	21	2 12.7	20.8
402301 2005 SZ_{249}	17.0	X	156.91715	342.27127	12.80012	10.78871	0.2283420	0.21417771	2.7666435	21	2 11.3	21.6
402302 2005 SS_{279}	17.1	X	134.32079	303.88559	85.16568	2.82091	0.1365511	0.21277680	2.7787738	21	2 18.2	21.1
402303 2005 SF_{280}	16.8	X	140.78652	341.82097	15.00295	4.45275	0.0812997	0.20866214	2.8151850	21	1 10.8	20.8
402304 2005 SC_{290}	17.0	X	59.24464	351.86190	47.66438	7.29381	0.0703089	0.20072470	2.8889200	21	—	—
402305 2005 TO_{30}	16.6	X	139.97052	149.63844	255.92941	7.49310	0.3097750	0.21615524	2.7497436	21	3 27.5	21.4
402306 2005 TK_{35}	17.2	X	0.34756	323.96571	133.39012	2.88048	0.0288882	0.20230863	2.8738214	21	—	—
402307 2005 TN_{43}	16.7	X	133.70366	3.33597	7.62415	3.57333	0.1036970	0.21072000	2.7968266	21	1 22.5	20.7
402308 2005 TS_{50}	17.2	X	125.65263	76.29959	333.03052	10.32169	0.4254900	0.21195621	2.7859413	21	3 30.3	22.2
402309 2005 TL_{78}	17.1	X	170.42938	156.36007	181.21545	7.74675	0.2239692	0.21223347	2.7835143	21	1 27.4	21.8
402310 2005 TV_{87}	17.1	X	205.36738	277.53782	31.99742	3.95260	0.0818819	0.21370522	2.7707200	21	1 22.4	21.3
402311 2005 TH_{110}	16.4	X	238.04883	292.07976	358.54424	12.76754	0.0824428	0.21671808	2.7449807	21	2 4.9	20.7
402312 2005 TK_{111}	16.6	X	228.76399	290.73549	340.21971	4.20963	0.1214652	0.21183767	2.7869804	21	—	—
402313 2005 TH_{118}	17.2	X	110.27233	18.07832	336.08294	1.26782	0.0772351	0.20330599	2.8644149	21	—	—
402314 2005 TD_{123}	17.4	X	56.72042	55.06460	19.49586	2.08216	0.0492002	0.20686012	2.8315106	21	—	—
402315 2005 TL_{124}	17.3	X	26.02834	53.53674	7.09465	4.85250	0.0837755	0.19795625	2.9157922	21	—	—
402316 2005 TC_{125}	17.2	X	124.34325	88.99849	264.49011	0.60116	0.1516058	0.20537294	2.8451636	21	—	—
402317 2005 TR_{125}	19.0	X	8.19377	14.10957	19.69058	0.90558	0.1594910	0.31607825	2.1343861	21	—	—
402318 2005 TD_{136}	17.0	X	135.42569	347.69116	26.01997	9.19962	0.1634199	0.21134850	2.7912792	21	2 6.8	21.2
402319 2005 TH_{137}	17.1	X	172.22687	295.17288	38.87936	4.90233	0.0697744	0.21195021	2.7859939	21	1 16.7	21.2
402320 2005 TF_{143}	17.9	X	67.07330	251.86480	51.53564	5.76756	0.0587003	0.31233313	2.1514141	21	11 22.7	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402321 2005 TH_{159}	17.2	X	188.91179	23.27197	310.73982	3.83788	0.1093384	0.21360806	2.7715601	21	2 3.9	21.6
402322 2005 TF_{177}	15.9	X	333.40946	337.03264	108.12710	16.90696	0.2200556	0.18236296	3.0797228	21	12 25.7	18.9
402323 2005 UZ_{3}	17.1	X	127.00603	194.10226	194.34192	5.49125	0.0411115	0.21331085	2.7741339	21	1 24.6	21.1
402324 2005 UO_{32}	17.0	X	136.07155	260.26447	44.40669	5.12908	0.1282414	0.19793598	2.9159912	21	—	—
402325 2005 UF_{56}	16.0	X	205.27499	144.34404	245.05000	14.66862	0.2136037	0.22187079	2.7023149	21	4 24.0	20.8
402326 2005 UB_{72}	16.4	X	125.68930	110.02806	293.57388	6.42371	0.2290320	0.21162580	2.7888402	21	3 5.9	20.8
402327 2005 US_{84}	17.0	X	113.59558	173.08244	189.83547	2.27277	0.1309559	0.20342428	2.8633045	21	—	—
402328 2005 UJ_{88}	16.7	X	102.95622	330.52416	57.32299	2.82846	0.1017752	0.20539508	2.8449591	21	1 5.5	20.5
402329 2005 UO_{89}	18.5	X	99.58414	20.49825	313.58955	3.81404	0.1503072	0.32276549	2.1048024	21	—	—
402330 2005 UB_{120}	17.2	X	118.49784	45.39864	303.16303	1.01228	0.0829167	0.20188935	2.8777989	21	—	—
402331 2005 UH_{168}	17.2	X	138.32320	283.67515	28.00439	6.13657	0.0628122	0.19904573	2.9051427	21	—	—
402332 2005 UX_{197}	17.3	X	90.51530	204.09137	171.49915	2.15877	0.0792118	0.20258164	2.8712389	21	—	—
402333 2005 UT_{206}	17.3	X	86.75434	316.00455	63.42882	3.02291	0.0784171	0.20285724	2.8686378	21	—	—
402334 2005 UV_{271}	16.9	X	130.46896	285.71112	110.77693	2.67094	0.0557795	0.20893895	2.8126980	21	2 12.7	20.8
402335 2005 UY_{287}	17.0	X	107.49160	322.05293	58.07995	6.90273	0.0770219	0.20505511	2.8481027	21	—	—
402336 2005 UA_{291}	18.3	X	29.48118	3.15979	354.55775	4.69308	0.0290703	0.31167919	2.1544224	21	12 12.2	20.7
402337 2005 UN_{323}	16.3	X	50.96855	90.40316	242.10144	14.65436	0.1070470	0.18534831	3.0465639	21	11 24.5	20.4
402338 2005 UC_{341}	16.8	X	139.95056	235.72702	71.39032	10.81345	0.0799004	0.19724217	2.9228254	21	—	—
402339 2005 UJ_{343}	16.8	X	137.42023	231.35432	180.64256	4.79398	0.1764278	0.21365764	2.7711312	21	3 24.8	21.1
402340 2005 UD_{371}	17.2	X	43.56247	71.88498	358.65435	1.24641	0.0673495	0.19887130	2.9068412	21	—	—
402341 2005 US_{400}	17.1	X	204.82296	328.74288	355.02675	12.33122	0.0757995	0.21847687	2.7302290	21	2 9.8	21.3
402342 2005 UG_{429}	17.0	X	57.73810	51.94384	350.78079	1.41907	0.1043621	0.19757577	2.9195344	21	—	—
402343 2005 UC_{461}	16.9	X	63.98245	167.62037	255.90960	4.39560	0.0648149	0.20028015	2.8931933	21	—	—
402344 2005 UL_{500}	17.1	X	227.09821	305.65008	105.64630	7.60906	0.1141814	0.29250835	2.2475561	21	6 16.7	20.1
402345 2005 UB_{511}	18.4	X	45.19994	233.17962	120.10111	0.36607	0.1510028	0.31520860	2.1383101	21	—	—
402346 2005 UM_{521}	17.4	X	149.32862	184.46764	155.21945	4.52558	0.1074527	0.20853345	2.8163431	21	1 1.8	21.5
402347 2005 UQ_{521}	17.3	X	60.94513	297.44196	145.68702	4.40721	0.0727369	0.20858295	2.8158976	21	1 11.4	20.8
402348 2005 UZ_{522}	16.4	X	18.81094	241.48075	114.58557	12.60381	0.0447991	0.18469810	3.0537098	21	11 8.4	20.7
402349 2005 UR_{527}	16.7	X	90.37670	302.52493	47.99041	2.69773	0.1373419	0.19441366	2.9511064	21	—	—
402350 2005 VO_{8}	16.9	X	127.58438	274.48603	89.33984	3.12476	0.1083593	0.20581357	2.8411013	21	1 7.4	20.7
402351 2005 VY_{31}	16.6	X	37.14423	357.62128	69.35379	5.99572	0.0990330	0.19640437	2.9311314	21	—	—
402352 2005 VF_{54}	16.9	X	261.29305	33.41873	120.56341	3.28547	0.1023695	0.18838102	3.0137782	21	12 5.3	20.9
402353 2005 VC_{55}	17.0	X	156.69560	26.85549	359.43332	3.71130	0.1105835	0.21431316	2.7654776	21	3 7.1	21.0
402354 2005 VK_{58}	16.9	X	31.81631	113.69979	346.20858	5.28261	0.0875206	0.20348719	2.8627143	21	—	—
402355 2005 VW_{76}	16.6	X	140.56391	85.07494	314.73450	1.42463	0.1889554	0.21276095	2.7789118	21	3 13.8	20.9
402356 2005 VX_{87}	16.4	X	118.97323	245.08748	73.41515	10.49355	0.1018146	0.19538533	2.9413142	21	—	—
402357 2005 VL_{113}	16.3	X	343.39933	28.66313	51.20976	14.99363	0.1932809	0.18869363	3.0104486	21	—	—
402358 2005 VU_{117}	18.6	X	4.91072	204.16327	181.29572	2.40644	0.1084101	0.31205803	2.1526783	21	12 28.7	20.7
402359 2005 VE_{124}	17.3	X	101.19872	118.37280	248.87312	0.77270	0.1780727	0.19942808	2.9014283	21	—	—
402360 2005 VQ_{130}	17.2	X	186.25788	159.83001	155.61921	6.04770	0.0809185	0.21024901	2.8010020	21	1 8.7	21.4
402361 2005 VV_{134}	16.9	X	41.50108	283.52043	129.04883	11.11442	0.0959384	0.19844776	2.9109757	21	—	—
402362 2005 WL_{17}	18.8	X	67.00701	283.45700	74.66074	3.88801	0.3135694	0.32094573	2.1127510	21	—	—
402363 2005 WW_{18}	15.6	X	183.27426	118.21027	253.90394	11.52077	0.1089616	0.21245524	2.7815770	21	3 10.7	20.2
402364 2005 WB_{28}	17.0	X	121.79253	313.19112	40.04965	2.02947	0.0520260	0.19865169	2.9089832	21	—	—
402365 2005 WC_{38}	16.3	X	337.48433	19.88568	92.90327	5.30843	0.1339079	0.19082581	2.9879819	21	—	—
402366 2005 WP_{42}	18.7	X	10.76114	4.83145	40.87493	1.45516	0.1369454	0.31579230	2.1356743	21	—	—
402367 2005 WD_{62}	16.7	X	22.10068	284.24395	68.15315	4.58910	0.1225782	0.18116489	3.0932856	21	11 12.2	20.5
402368 2005 WT_{135}	16.8	X	110.61674	312.09950	67.58429	3.29161	0.1254218	0.20204613	2.8763100	21	1 9.6	20.6
402369 2005 WY_{154}	16.8	X	31.52448	342.10337	77.06677	3.01082	0.0939902	0.19243148	2.9713374	21	—	—
402370 2005 WH_{178}	16.3	X	326.76742	36.30523	87.76005	11.50245	0.0946101	0.18899459	3.0072518	21	—	—
402371 2005 WN_{210}	16.5	X	81.28275	275.89084	75.03047	5.30600	0.0901457	0.19052195	2.9911581	21	—	—
402372 2005 WO_{210}	16.0	X	251.69896	278.94930	266.82678	9.17640	0.0446435	0.18822875	3.0154034	21	—	—
402373 2005 XG_{4}	16.4	X	324.26031	68.23764	23.09865	10.29050	0.1172643	0.18743169	3.0239460	21	12 16.3	20.1
402374 2005 XO_{21}	17.2	X	66.67687	324.15818	56.37073	2.76511	0.0818461	0.19507598	2.9444229	21	—	—
402375 2005 XX_{31}	16.6	X	41.38852	337.92069	84.12981	4.88512	0.1180605	0.19243891	2.9712609	21	—	—
402376 2005 XT_{43}	16.9	X	119.73212	357.40854	38.69312	2.45834	0.0791268	0.20514189	2.8472994	21	2 3.5	20.9
402377 2005 XJ_{75}	18.0	X	141.80060	265.53531	307.04811	5.21584	0.0857697	0.29753890	2.2221509	21	10 18.1	21.1
402378 2005 XS_{84}	17.7	X	341.47675	354.88242	95.40189	24.23636	0.0608818	0.37583842	1.9016705	21	—	—
402379 2005 XO_{110}	18.1	X	68.73097	188.64859	344.17728	2.05948	0.1490549	0.26823182	2.3811999	21	5 28.5	20.6
402380 2005 YC_{21}	16.1	X	261.83145	19.88013	104.28612	11.21095	0.0289863	0.17667657	3.1454546	21	11 11.3	20.7
402381 2005 YK_{53}	16.7	X	286.45082	178.39406	300.81146	7.36117	0.0806278	0.17933524	3.1142894	21	11 25.4	20.9
402382 2005 YY_{64}	18.1	X	148.54918	59.89679	95.93472	6.98895	0.1688743	0.28694252	2.2765268	21	8 16.3	21.6
402383 2005 YY_{68}	18.1	X	94.63327	158.20479	51.12123	1.29936	0.1921885	0.28505461	2.2865674	21	9 2.5	21.4
402384 2005 YC_{69}	16.0	X	303.94841	153.01678	308.58731	4.96267	0.1186347	0.18091063	3.0961832	21	11 25.2	19.8
402385 2005 YX_{69}	16.0	X	230.82845	231.60474	306.99032	5.70990	0.1006331	0.17819747	3.1275315	21	11 25.7	20.6
402386 2005 YX_{70}	15.2	X	262.15472	187.88954	299.22546	15.56185	0.0962120	0.17677786	3.1442529	21	10 26.4	19.9
402387 2005 YM_{71}	16.6	X	97.00841	53.37182	358.15202	3.58848	0.2120750	0.20265396	2.8705557	21	2 13.7	20.4
402388 2005 YT_{72}	16.1	X	133.27982	208.79633	89.03455	10.88854	0.1264401	0.18657090	3.0332400	21	—	—
402389 2005 YU_{77}	16.4	X	36.22890	319.19386	88.65872	4.23300	0.1348824	0.18951966	3.0016949	21	—	—
402390 2005 YZ_{78}	16.1	X	162.03279	114.45481	104.99551	12.02684	0.0429810	0.17537889	3.1609516	21	11 9.7	20.9
402391 2005 YL_{79}	18.2	X	29.77526	58.43876	292.81562	2.74811	0.1562388	0.30575093	2.1821814	21	12 23.3	20.5
402392 2005 YE_{83}	15.9	X	129.89659	151.68434	123.14653	11.45575	0.0934296	0.17800671	3.1297655	21	12 9.9	20.9
402393 2005 YM_{88}	16.2	X	205.63927	257.02493	289.83183	8.14463	0.0299200	0.17637429	3.1490474	21	11 14.2	20.8
402394 2005 YM_{90}	15.7	X	180.32325	321.92404	285.49141	9.63818	0.0423137	0.18106794	3.0943897	21	12 29.4	20.3
402395 2005 YW_{97}	17.7	X	47.01421	30.04235	324.52938	3.18683	0.1500896	0.30974994	2.1633588	21	—	—
402396 2005 YM_{98}	15.7	X	242.43370	199.64389	301.81599	16.65438	0.1130437	0.17618158	3.1513433	21	10 16.2	20.7
402397 2005 YA_{104}	16.7	X	135.10066	255.83397	109.82385	3.19136	0.1132966	0.19971008	2.8986964	21	1 20.1	20.8
402398 2005 YX_{114}	15.6	X	47.10481	230.33477	96.76077	9.19590	0.0521464	0.17334763	3.1855966	21	11 6.7	20.1
402399 2005 YJ_{116}	16.7	X	33.59499	18.51974	27.87897	2.14794	0.1664268	0.18715521	3.0269234	21	—	—
402400 2005 YJ_{118}	16.7	X	346.52169	127.58575	338.52060	2.47858	0.0968484	0.18736797	3.0246315	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402401 2005 YL_{120}	18.7	X	280.84886	170.67681	265.02468	3.81721	0.1422452	0.29936453	2.2131074	21	9 29.7	20.9
402402 2005 YJ_{123}	15.6	X	24.19878	0.91552	64.31826	10.97938	0.1270710	0.18993558	2.9973111	21	—	—
402403 2005 YH_{128}	15.9	X	255.77548	182.79915	303.18412	17.08805	0.2589299	0.17507456	3.1646135	21	9 22.5	21.1
402404 2005 YG_{129}	16.1	X	263.26467	197.22018	297.88620	4.33762	0.1401310	0.17947952	3.1126201	21	11 5.8	20.4
402405 2005 YU_{132}	16.3	X	283.42438	36.76983	79.22531	10.98670	0.0746745	0.17973665	3.1096508	21	11 21.0	20.5
402406 2005 YR_{134}	16.1	X	290.30873	177.83704	320.79587	10.46591	0.0482979	0.18365484	3.0652634	21	12 31.1	20.4
402407 2005 YA_{139}	17.1	X	0.94242	110.14156	321.29334	0.83224	0.1858545	0.18654179	3.0335556	21	—	—
402408 2005 YT_{142}	18.5	X	290.84116	5.50515	80.29048	2.53989	0.0963960	0.30208952	2.1997785	21	11 12.9	20.3
402409 2005 YR_{148}	16.2	X	185.24596	257.91747	322.21070	8.50437	0.0518466	0.17813065	3.1283136	21	11 29.9	21.0
402410 2005 YP_{150}	16.2	X	255.09267	167.45503	317.25891	8.42059	0.0659842	0.17479962	3.1679310	21	10 21.4	20.9
402411 2005 YO_{154}	18.0	X	282.55130	105.48331	309.12548	6.27660	0.0555681	0.29455862	2.2371146	21	9 13.2	20.4
402412 2005 YH_{158}	16.5	X	265.38352	207.46193	278.20445	13.85590	0.1893182	0.17773696	3.1329314	21	10 16.3	21.2
402413 2005 YY_{169}	16.1	X	26.81588	279.87428	117.96453	12.58639	0.1313418	0.18580296	3.0415920	21	—	—
402414 2005 YP_{179}	16.2	X	161.14098	149.25922	120.91575	9.65600	0.0164527	0.18374399	3.0642719	21	—	—
402415 2005 YV_{191}	17.4	X	50.75474	154.57759	108.88607	7.59329	0.1134454	0.28673193	2.2776414	21	9 12.2	20.0
402416 2005 YL_{192}	16.4	X	46.56625	72.24887	308.35426	15.70716	0.1792283	0.18421898	3.0590023	21	—	—
402417 2005 YV_{196}	16.7	X	42.00144	91.03902	287.01214	8.39592	0.1010708	0.18447878	3.0561296	21	—	—
402418 2005 YH_{201}	16.1	X	248.41445	53.94141	122.30272	10.46490	0.0321328	0.18121245	3.0927444	21	12 24.5	20.4
402419 2005 YJ_{208}	16.1	X	14.04400	85.71637	331.47802	10.50082	0.1616382	0.18727267	3.0256576	21	—	—
402420 2005 YK_{208}	15.9	X	274.33934	158.68488	319.17145	27.37368	0.1413820	0.17729211	3.1381699	21	10 14.4	20.8
402421 2005 YG_{235}	16.3	X	100.28535	344.55976	306.30453	6.07924	0.0358341	0.17774995	3.1327787	21	11 20.2	21.0
402422 2005 YH_{270}	16.2	X	50.78948	267.90317	131.42770	10.64620	0.0966478	0.18821185	3.0155839	21	—	—
402423 2005 YC_{274}	16.5	X	55.77379	100.92346	323.57284	9.88947	0.0913092	0.19185971	2.9772378	21	—	—
402424 2006 AR_{11}	15.9	X	143.75707	106.35288	123.69933	14.31855	0.0490752	0.17302885	3.1895081	21	11 3.6	20.9
402425 2006 AO_{26}	16.7	X	274.79989	167.52678	296.21132	15.81197	0.1568454	0.17595222	3.1540813	21	10 2.6	21.4
402426 2006 AW_{30}	18.5	X	18.98554	345.01076	49.45594	1.57677	0.1619487	0.31283265	2.1491233	21	—	—
402427 2006 AN_{33}	15.5	X	327.18274	31.01122	77.76476	16.09051	0.1044675	0.18489263	3.0515675	21	—	—
402428 2006 AC_{36}	16.5	X	323.51054	9.01507	93.18168	3.27832	0.0685117	0.18195857	3.0842841	21	12 29.1	20.5
402429 2006 AG_{36}	18.3	X	99.44202	211.41687	328.86599	2.00675	0.1297966	0.28051715	2.3111587	21	7 21.0	21.2
402430 2006 AP_{40}	15.8	X	44.90962	283.94420	121.13794	11.77343	0.0813865	0.18684454	3.0302777	21	—	—
402431 2006 AK_{42}	15.8	X	26.00924	122.73016	296.83345	14.63056	0.0984952	0.18619668	3.0373029	21	—	—
402432 2006 AE_{49}	16.2	X	305.95334	311.98462	96.30554	27.43084	0.1394243	0.17362680	3.1821810	21	10 3.6	20.8
402433 2006 AD_{61}	16.5	X	116.98857	129.85922	133.90191	9.00620	0.0217502	0.17377791	3.1803360	21	11 9.7	21.2
402434 2006 AX_{64}	16.4	X	251.11322	45.30326	107.52500	10.53470	0.0444331	0.17859667	3.1228693	21	11 29.2	20.9
402435 2006 AD_{84}	16.0	X	289.26986	86.68365	16.05904	9.52484	0.1877492	0.17818023	3.1277332	21	10 25.1	19.8
402436 2006 AM_{93}	15.8	X	253.71316	186.58621	319.10992	14.48862	0.0452894	0.17403470	3.1772068	21	11 16.7	20.6
402437 2006 AW_{96}	15.5	X	313.41423	131.16889	327.84603	28.14004	0.1062895	0.17853019	3.1236446	21	12 6.5	20.0
402438 2006 AK_{101}	18.1	X	331.56312	258.67353	152.60093	2.61135	0.1389008	0.30244966	2.1980319	21	12 8.9	19.8
402439 2006 BZ_{12}	17.9	X	7.06050	254.27124	144.35955	6.39293	0.1479962	0.30610057	2.1805194	21	—	—
402440 2006 BE_{31}	16.0	X	52.24901	216.97498	130.05188	12.46721	0.0405763	0.17484773	3.1673499	21	12 4.9	20.6
402441 2006 BJ_{31}	15.6	X	243.48263	181.13373	323.18044	18.48136	0.0926925	0.17253232	3.1956245	21	10 21.9	20.7
402442 2006 BQ_{34}	16.9	X	89.79083	325.75567	29.08654	1.34015	0.0643672	0.18494885	3.0509491	21	—	—
402443 2006 BX_{35}	15.8	X	332.94621	101.37379	321.40888	8.56273	0.0827854	0.17688479	3.1429855	21	11 20.2	20.0
402444 2006 BS_{44}	15.9	X	258.69375	156.78312	342.97199	9.33541	0.1696764	0.17228328	3.1987034	21	10 29.5	20.6
402445 2006 BV_{45}	17.2	X	182.19430	199.39022	321.62651	6.32059	0.0481811	0.29010738	2.2599398	21	9 26.1	20.1
402446 2006 BN_{52}	16.0	X	293.82161	328.88170	131.26781	10.12290	0.0477453	0.17464994	3.1697408	21	11 19.1	20.5
402447 2006 BK_{55}	17.9	X	235.96742	299.41996	149.32429	45.47615	0.2014720	0.41721029	1.7737785	21	8 14.9	19.7
402448 2006 BX_{58}	15.6	X	333.97733	140.83824	333.06215	14.27185	0.0156575	0.18045954	3.1013407	21	—	—
402449 2006 BE_{59}	18.0	X	54.93498	260.79359	318.65768	0.66771	0.1347324	0.27558142	2.3386726	21	7 13.3	20.5
402450 2006 BP_{63}	18.0	X	167.59038	249.92075	291.16340	2.29596	0.1104868	0.29249749	2.2476117	21	10 5.2	21.1
402451 2006 BC_{64}	16.2	X	302.90466	329.17626	138.81350	6.23730	0.1907291	0.17978274	3.1091193	21	11 26.4	19.8
402452 2006 BJ_{64}	16.7	X	61.23506	69.87640	313.53245	7.67751	0.0835526	0.18508760	3.0494242	21	—	—
402453 2006 BA_{87}	17.6	X	144.61071	202.12022	326.66987	7.83188	0.0632010	0.28620146	2.2804549	21	8 22.8	20.7
402454 2006 BS_{87}	18.2	X	90.14523	216.59073	330.14896	6.13959	0.0548074	0.27950226	2.3167500	21	7 6.3	21.0
402455 2006 BQ_{88}	16.2	X	355.83467	299.28907	128.08610	10.25819	0.0634039	0.18001768	3.1064136	21	12 30.9	20.4
402456 2006 BM_{90}	15.7	X	64.24318	251.55468	139.84773	10.52295	0.0727093	0.18345697	3.0674671	21	—	—
402457 2006 BE_{94}	17.2	X	63.29661	255.25736	315.90216	5.18525	0.1365970	0.27549500	2.3391616	21	7 15.6	19.6
402458 2006 BD_{95}	15.9	X	7.89884	114.33199	322.65574	5.48544	0.1310362	0.18229482	3.0804902	21	—	—
402459 2006 BV_{97}	16.2	X	283.66190	151.36176	335.68852	8.38788	0.0578716	0.17516776	3.1634909	21	12 2.9	20.6
402460 2006 BL_{98}	16.3	X	207.65201	225.33049	302.83931	10.38662	0.0599870	0.17297386	3.1901840	21	10 18.7	21.2
402461 2006 BO_{110}	16.5	X	277.23081	89.11145	13.33745	2.81516	0.1407186	0.17340197	3.1849310	21	10 15.0	20.6
402462 2006 BV_{112}	16.4	X	229.97576	26.17826	114.09833	5.47141	0.0563863	0.16957606	3.2326575	21	10 17.8	21.1
402463 2006 BM_{149}	16.9	X	59.21906	211.08708	321.03962	23.50145	0.2404567	0.26863948	2.3787903	21	5 20.4	19.9
402464 2006 BB_{153}	17.9	X	59.85929	211.04933	20.31253	2.07278	0.1526558	0.27905535	2.3192229	21	8 12.8	20.5
402465 2006 BU_{157}	16.1	X	353.74203	113.72055	349.49134	6.96052	0.1479453	0.18363080	3.0655309	21	—	—
402466 2006 BA_{159}	15.8	X	74.56478	247.91382	147.69810	14.69702	0.1404621	0.18954192	3.0014599	21	—	—
402467 2006 BW_{166}	16.4	X	19.69262	289.96710	106.00421	1.51245	0.0469976	0.17662034	3.1461220	21	12 21.9	20.8
402468 2006 BK_{185}	16.2	X	351.21476	330.44687	118.97712	9.00957	0.1049164	0.18401943	3.0612133	21	—	—
402469 2006 BK_{186}	17.8	X	107.66150	241.15378	315.64765	4.92896	0.1042096	0.28144143	2.3060959	21	8 19.6	20.8
402470 2006 BD_{198}	15.8	X	44.28874	70.18208	309.91391	9.73794	0.0781384	0.17825840	3.1268188	21	—	—
402471 2006 BM_{201}	17.6	X	65.79976	218.22445	354.04967	3.97381	0.1362895	0.27774313	2.3265220	21	7 21.8	20.2
402472 2006 BO_{201}	16.7	X	136.60824	234.05898	42.47206	2.01547	0.0565392	0.17547052	3.1598510	21	12 15.3	21.4
402473 2006 BK_{209}	18.6	X	244.82084	171.90308	298.80229	1.50263	0.1080428	0.29592231	2.2302364	21	10 2.3	21.4
402474 2006 BS_{224}	15.4	X	336.14816	303.86212	147.60037	22.77979	0.0866028	0.18001306	3.1064667	21	—	—
402475 2006 BD_{240}	16.1	X	93.25154	42.07362	336.63772	8.78425	0.1077426	0.18868309	3.0105608	21	—	—
402476 2006 BR_{240}	18.7	X	244.69905	148.03411	334.14441	6.24801	0.0932107	0.29671523	2.2262614	21	10 18.9	21.4
402477 2006 BC_{243}	16.0	X	252.51893	186.55237	341.77090	10.07852	0.0248155	0.17730584	3.1380078	21	12 19.9	20.6
402478 2006 BS_{261}	17.7	X	299.31034	312.97801	133.86393	6.77312	0.1341171	0.30046928	2.2076794	21	11 28.5	19.6
402479 2006 BW_{273}	15.6	X	34.65383	45.88359	338.77983	14.23659	0.1525790	0.17868144	3.1218815	21	—	—
402480 2006 BK_{274}	15.4	X	33.98278	27.43763	337.92743	18.92735	0.1320078	0.17255989	3.1952841	21	12 12.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402481 2006 BR_{282}	18.5	X	77.04951	182.16060	14.83581	2.58837	0.1382789	0.27751352	2.3278051	21	7 16.0	21.1
402482 2006 CB_2	15.8	X	302.44752	128.17065	339.09806	9.15842	0.0620534	0.17697341	3.1419362	21	12 3.7	20.1
402483 2006 CA_{14}	17.2	X	24.20017	354.73958	316.41100	5.92201	0.1348289	0.28985633	2.2612445	21	10 7.0	19.5
402484 2006 CY_{24}	15.9	X	66.84696	59.23631	319.95196	8.93035	0.1346728	0.18601423	3.0392885	21	—	—
402485 2006 CN_{29}	16.0	X	63.32156	28.51631	318.54926	18.07333	0.1607953	0.17669582	3.1452261	21	—	—
402486 2006 CA_{35}	17.7	X	112.06273	52.44157	151.76207	7.13793	0.0503738	0.28682625	2.2771420	21	8 30.5	20.5
402487 2006 CD_{42}	17.3	X	44.82894	242.20856	323.13216	12.06073	0.1667991	0.27011233	2.3701351	21	6 5.9	19.8
402488 2006 CA_{45}	17.9	X	347.52797	45.20590	5.18817	3.96208	0.1211077	0.30503726	2.1855837	21	—	—
402489 2006 CQ_{45}	17.8	X	332.31373	57.25186	348.95134	4.40003	0.1286779	0.30169240	2.2017084	21	11 29.7	19.7
402490 2006 CH_{47}	18.0	X	23.46459	164.30332	129.31746	10.28868	0.0848073	0.28651221	2.2788057	21	9 7.1	20.3
402491 2006 CR_{58}	16.6	X	310.39284	346.71820	138.10979	10.46841	0.1375627	0.18201559	3.0836399	21	—	—
402492 2006 CT_{59}	17.7	X	10.98791	248.18555	355.13279	2.16778	0.1267994	0.27086442	2.3657458	21	5 23.4	19.8
402493 2006 DS_1	16.1	X	318.04672	110.92743	355.35294	11.81605	0.1880219	0.17992204	3.1075143	21	12 21.2	19.7
402494 2006 DZ_7	17.1	X	12.32951	228.00048	10.27946	4.84829	0.1966703	0.26710352	2.3879010	21	5 17.2	18.7
402495 2006 DN_9	15.2	X	252.66610	171.24145	355.52734	15.06347	0.2065905	0.17476281	3.1683759	21	11 17.9	20.1
402496 2006 DW_{12}	17.1	X	111.48271	203.03276	348.76675	6.20896	0.1134826	0.28326581	2.2961836	21	8 20.3	20.2
402497 2006 DP_{16}	16.5	X	289.49064	102.81150	29.25364	3.83807	0.1427349	0.17794254	3.1305179	21	12 8.6	20.4
402498 2006 DC_{19}	18.0	X	45.16097	152.02404	64.77580	2.54384	0.1414320	0.27347957	2.3506400	21	6 22.3	20.2
402499 2006 DJ_{26}	15.9	X	42.46012	61.07622	328.95743	10.48036	0.0203412	0.17853207	3.1236226	21	—	—
402500 2006 DU_{38}	16.3	X	52.39990	63.84871	353.30502	8.25227	0.0773360	0.18447014	3.0562250	21	—	—
402501 2006 DC_{40}	15.4	X	312.16736	331.66828	165.53765	18.52829	0.1716737	0.18178154	3.0862862	21	—	—
402502 2006 DP_{42}	16.4	X	36.83856	66.79425	338.01733	10.35841	0.1341343	0.18201370	3.0836612	21	—	—
402503 2006 DO_{45}	15.9	X	220.14006	14.88975	156.69135	9.59108	0.0836960	0.17062907	3.2193439	21	11 10.4	20.8
402504 2006 DK_{52}	17.6	X	356.02971	183.51326	93.26117	3.30931	0.1810173	0.27298706	2.3534665	21	6 13.6	19.3
402505 2006 DZ_{55}	16.2	X	350.94449	346.40269	81.89272	5.72732	0.1123789	0.17670630	3.1451017	21	12 27.7	20.1
402506 2006 DV_{79}	17.9	X	92.55782	243.62904	324.13934	1.78503	0.1754613	0.27863864	2.3215346	21	8 25.7	20.9
402507 2006 DN_{82}	15.6	X	313.49859	156.44609	343.95471	9.13061	0.0431271	0.17937619	3.1138153	21	—	—
402508 2006 DK_{89}	15.9	X	44.28212	61.86071	350.96655	17.73726	0.0877736	0.18081080	3.0973228	21	—	—
402509 2006 DY_{93}	18.0	X	15.90200	231.82840	359.49382	5.85476	0.1399613	0.26712817	2.3877541	21	5 13.1	20.2
402510 2006 DS_{98}	17.7	X	65.19246	34.28848	158.36531	6.50387	0.1541353	0.27312163	2.3526933	21	6 23.1	20.4
402511 2006 DE_{105}	17.8	X	69.65649	191.02260	350.25242	4.83334	0.2168110	0.27089949	2.3655416	21	6 24.6	20.5
402512 2006 DR_{107}	17.9	X	54.38560	202.03823	359.80876	1.41271	0.1138867	0.27087434	2.3656880	21	6 11.4	20.3
402513 2006 DN_{121}	15.3	X	258.44440	177.96935	350.83938	28.98042	0.1718290	0.17658518	3.1465396	21	11 29.6	20.3
402514 2006 DQ_{123}	15.7	X	47.82668	55.30158	339.76146	12.16504	0.1202455	0.18010270	3.1054359	21	—	—
402515 2006 DT_{134}	18.0	X	62.40741	84.55972	113.13521	3.22826	0.1443049	0.27281025	2.3544832	21	6 24.2	20.6
402516 2006 DV_{138}	17.2	X	34.71421	133.72832	135.36692	6.70794	0.1247774	0.27874952	2.3209189	21	8 23.0	19.5
402517 2006 DA_{141}	17.8	X	123.96386	77.03891	77.31670	2.98797	0.1240435	0.27715741	2.3297986	21	7 13.9	21.1
402518 2006 DV_{157}	15.8	X	355.73518	272.83115	157.69511	11.99598	0.0661550	0.17568842	3.1572378	21	—	—
402519 2006 DG_{158}	15.6	X	344.80243	316.93306	160.54087	17.67106	0.1693399	0.18335514	3.0686027	21	—	—
402520 2006 DR_{161}	15.8	X	183.82390	89.66637	147.80814	12.70916	0.0331232	0.17494737	3.1661472	21	12 21.6	20.6
402521 2006 DV_{195}	16.9	X	85.62494	186.64794	32.40533	5.19880	0.0985719	0.28123839	2.3072057	21	8 24.9	19.8
402522 2006 DB_{205}	16.3	X	17.01357	35.84759	333.36702	9.75842	0.0436455	0.17220494	3.1996734	21	11 11.4	20.9
402523 2006 EF_{12}	15.9	X	82.05463	4.34353	354.75057	18.19205	0.1762275	0.17626180	3.1503871	21	—	—
402524 2006 ES_{13}	15.6	X	317.28585	90.38402	350.63878	12.34654	0.0873753	0.17104188	3.2141619	21	11 16.6	20.0
402525 2006 ER_{21}	18.3	X	43.84175	212.19501	351.51401	3.01985	0.1215987	0.27096198	2.3651779	21	5 26.2	20.5
402526 2006 EL_{24}	16.9	X	354.55556	81.52852	331.70850	5.93119	0.0952734	0.17512687	3.1639833	21	12 12.4	20.9
402527 2006 EZ_{24}	15.9	X	73.58102	197.14004	157.73653	10.68304	0.0599974	0.17678234	3.1441998	21	—	—
402528 2006 EC_{25}	15.9	X	28.74330	50.47652	339.56917	11.29579	0.0718105	0.17598700	3.1536657	21	12 30.6	20.4
402529 2006 ES_{31}	17.8	X	126.62664	168.55313	18.37058	5.92893	0.0990019	0.28176196	2.3043466	21	8 31.1	21.0
402530 2006 EW_{45}	16.1	X	311.87156	315.55841	175.25224	6.24021	0.1130438	0.17970857	3.1099747	21	—	—
402531 2006 ET_{55}	18.2	X	165.77412	191.83028	306.55196	2.12690	0.0961499	0.28219534	2.3019868	21	8 6.7	21.3
402532 2006 ER_{67}	16.6	X	321.00417	303.27724	137.19151	4.00088	0.0778509	0.17651525	3.1473707	21	11 28.1	20.6
402533 2006 EU_{74}	17.9	X	9.33388	229.41222	62.16214	2.65635	0.1253953	0.27727005	2.3291676	21	8 9.9	19.9
402534 2006 FY_{10}	17.7	X	61.65862	110.64678	104.39990	2.16238	0.1271831	0.27326372	2.3518777	21	7 16.5	20.1
402535 2006 FC_{24}	17.7	X	217.85346	276.51968	166.31628	4.08101	0.0540107	0.27712039	2.3300061	21	7 24.4	20.8
402536 2006 FT_{42}	17.4	X	229.26381	280.18611	180.53136	6.67448	0.0424969	0.28229846	2.3014261	21	9 5.0	20.1
402537 2006 FN_{43}	17.1	X	114.94478	197.34334	1.07020	5.06972	0.0653764	0.28092413	2.3089260	21	8 28.5	20.0
402538 2006 FP_{53}	17.5	X	20.53465	67.50989	203.06103	6.12011	0.1145139	0.27189358	2.3597722	21	7 24.7	20.0
402539 2006 GE_1	17.8	X	97.47557	51.85830	153.47688	5.22773	0.1744377	0.27740972	2.3283858	21	8 28.0	21.0
402540 2006 GD_{49}	16.8	X	95.12183	219.04326	312.57737	23.65172	0.1965156	0.27306468	2.3530204	21	7 16.8	20.1
402541 2006 HY_{11}	17.9	X	52.50748	110.24072	96.22696	4.90347	0.1955195	0.26794336	2.3829086	21	6 29.4	20.1
402542 2006 HS_{48}	18.1	X	329.43704	208.67352	69.51505	4.20998	0.1786674	0.26273406	2.4143031	21	4 21.2	20.5
402543 2006 HP_{66}	17.7	X	302.32865	270.21358	65.51183	3.26756	0.2019184	0.26555057	2.3972016	21	5 25.6	20.6
402544 2006 HH_{112}	15.9	X	80.90711	347.90269	5.85511	9.68752	0.0774390	0.17392281	3.1785693	21	—	—
402545 2006 JN_4	17.1	X	38.16274	20.03885	199.23690	5.75807	0.0499495	0.26655492	2.3911762	21	6 3.0	19.9
402546 2006 JJ_6	17.3	X	349.77850	194.05276	91.92111	3.76621	0.2014834	0.26533401	2.3985058	21	6 12.5	19.0
402547 2006 JT_9	17.7	X	25.46521	308.61016	243.92738	3.65155	0.1217440	0.25946198	2.4345586	21	4 2.9	20.1
402548 2006 JX_{20}	17.4	X	328.91470	142.71171	125.25219	7.48842	0.0898788	0.25991262	2.4317437	21	4 22.1	20.3
402549 2006 JV_{44}	17.6	X	352.51115	168.62410	172.10315	6.10418	0.1588964	0.27972347	2.3155284	21	9 26.2	19.2
402550 2006 KE_{53}	17.4	X	283.54588	144.86651	96.30337	6.39600	0.1402700	0.24694264	2.5161623	21	1 8.8	21.0
402551 2006 KN_{62}	17.2	X	332.49787	162.45396	145.25391	4.82555	0.1325626	0.26534449	2.3984426	21	6 17.8	19.5
402552 2006 KQ_{91}	17.2	X	300.45717	120.48662	212.98270	6.62109	0.1249988	0.26521037	2.3992512	21	6 2.2	20.0
402553 2006 KW_{94}	17.7	X	259.39206	224.53636	130.13340	3.33654	0.1957212	0.25923615	2.4359723	21	5 1.2	21.3
402554 2006 KM_{108}	18.2	X	63.01592	172.78473	38.23938	2.62088	0.1269184	0.26982325	2.3718277	21	7 13.0	20.9
402555 2006 MU_5	17.2	X	305.91682	216.39548	100.37622	3.57635	0.2018773	0.25615879	2.4554431	21	5 5.7	20.2
402556 2006 PX_{27}	15.8	X	297.79660	143.44091	216.32917	5.35467	0.2944018	0.12504278	3.9606243	21	6 11.8	21.2
402557 2006 QU_1	17.2	X	217.41743	26.86681	315.82336	17.78694	0.0818693	0.37396876	1.9080035	21	2 17.0	19.3
402558 2006 QD_{18}	17.5	X	244.54469	286.96877	55.41330	4.73772	0.2668012	0.24503160	2.5292280	21	3 29.8	21.8
402559 2006 QP_{19}	17.2	X	220.86534	267.33437	111.73893	13.23800	0.2827687	0.24414010	2.5353814	21	4 28.6	22.0
402560 2006 QR_{35}	17.9	X	145.51266	50.50715	341.90519	19.62874	0.0745503	0.36771838	1.9295639	21	2 4.6	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402561 2006 QP_{54}	15.2	X	300.07183	326.69199	35.73646	3.21204	0.2285751	0.12387242	3.9855320	21	6 27.8	20.4
402562 2006 QO_{60}	17.6	X	253.15161	258.18179	128.21008	3.53256	0.2299145	0.25289876	2.4764995	21	6 1.3	21.5
402563 2006 QW_{61}	17.2	X	269.65104	349.86885	330.97123	12.49278	0.1594077	0.24614487	2.5215961	21	3 27.5	21.0
402564 2006 QA_{123}	17.5	X	197.54173	317.77095	58.04824	3.90146	0.2638715	0.23943437	2.5684930	21	4 4.2	22.1
402565 2006 RV_{4}	16.9	X	154.79361	10.14921	9.85154	11.93026	0.1244458	0.23043499	2.6349382	21	2 28.1	20.9
402566 2006 RK_{7}	17.2	X	253.65025	107.96528	241.63120	5.26305	0.1807651	0.24722128	2.5142714	21	4 18.5	21.0
402567 2006 RB_{11}	18.3	X	230.64489	334.68274	356.71906	2.99297	0.3156314	0.24038811	2.5616948	21	3 4.0	23.1
402568 2006 RN_{25}	18.4	X	238.15055	43.05151	294.21065	4.28516	0.2481069	0.24321190	2.5418281	21	3 15.8	22.9
402569 2006 RG_{26}	17.5	X	248.22314	349.06254	345.43868	7.74055	0.2018312	0.24437695	2.5337430	21	3 23.8	21.7
402570 2006 RV_{33}	16.9	X	157.68650	213.41989	186.76688	14.56062	0.1062141	0.23636930	2.5906496	21	3 21.3	20.7
402571 2006 RK_{35}	17.2	X	248.88824	195.57198	160.63310	12.35427	0.2174711	0.24617835	2.5213675	21	4 24.1	21.4
402572 2006 RB_{47}	17.6	X	252.33968	151.41575	175.88630	5.62912	0.2661573	0.24229814	2.5482146	21	3 16.1	22.0
402573 2006 RB_{52}	16.8	X	223.51298	8.16097	193.52419	8.95367	0.0871981	0.20883127	2.8136648	21	12 23.1	20.9
402574 2006 RC_{53}	17.5	X	130.82018	24.87914	52.02264	1.33798	0.1940240	0.23225103	2.6211846	21	4 18.4	21.3
402575 2006 RH_{53}	17.4	X	233.47308	317.18205	29.03843	3.45078	0.2708931	0.24036548	2.5618556	21	3 25.1	22.0
402576 2006 RC_{54}	17.2	X	295.02620	92.08445	184.66585	7.24403	0.0367584	0.23691403	2.5866770	21	3 23.7	20.6
402577 2006 RQ_{57}	17.0	X	149.16263	325.34658	5.57597	4.56592	0.1578483	0.22367724	2.6877458	21	—	—
402578 2006 RX_{68}	17.2	X	206.59093	25.97202	208.48929	1.78583	0.0407381	0.21534599	2.7566282	21	—	—
402579 2006 RO_{85}	17.4	X	223.54710	327.93064	7.25995	4.79811	0.0029181	0.23559490	2.5963234	21	3 13.1	20.8
402580 2006 RA_{86}	17.8	X	141.87607	52.35021	2.19795	4.42820	0.1696608	0.23282344	2.6168867	21	3 29.4	21.6
402581 2006 RX_{91}	17.2	X	210.34599	328.64029	359.04421	3.01194	0.1909365	0.23353466	2.6115709	21	2 15.5	21.4
402582 2006 RF_{94}	17.7	X	183.83231	60.56419	330.20210	2.19806	0.2932711	0.23613223	2.5923832	21	4 10.6	22.4
402583 2006 RG_{97}	18.0	X	216.92928	96.93482	232.47079	2.02810	0.2121600	0.23467892	2.6030749	21	2 21.0	22.5
402584 2006 RJ_{100}	17.2	X	226.00684	20.51994	322.42280	16.51931	0.2396878	0.24042076	2.5614629	21	3 10.2	21.8
402585 2006 RE_{102}	17.3	X	256.61287	93.08799	195.05642	10.31707	0.1204248	0.23475599	2.6025051	21	2 8.6	21.4
402586 2006 SE_{22}	17.4	X	212.62782	20.62875	332.44046	8.40526	0.1771869	0.23850641	2.5751509	21	3 16.4	21.8
402587 2006 SQ_{28}	17.1	X	307.96587	256.59112	311.92828	13.17418	0.1538212	0.23559279	2.5963389	21	—	—
402588 2006 SY_{28}	17.5	X	195.22019	61.35122	311.13793	8.30532	0.0977367	0.24121451	2.5558406	21	3 21.6	21.5
402589 2006 SQ_{43}	17.7	X	237.68228	31.04538	315.40753	6.34766	0.2917276	0.24162147	2.5529699	21	3 23.9	22.4
402590 2006 SB_{52}	17.9	X	222.47282	200.58389	158.71998	3.19148	0.2353508	0.24069843	2.5594926	21	4 2.6	22.3
402591 2006 SP_{77}	16.8	X	223.35512	310.91893	21.33461	14.11609	0.2527102	0.23541136	2.5976728	21	3 6.9	21.5
402592 2006 SC_{91}	17.5	X	198.53499	43.58694	318.86586	0.77290	0.1767664	0.23479820	2.6021932	21	3 17.9	21.6
402593 2006 SN_{92}	17.3	X	253.94535	112.73370	201.40937	6.21959	0.1892671	0.23824627	2.5770251	21	3 5.4	21.6
402594 2006 SO_{96}	17.0	X	259.63119	205.04669	32.83723	5.79562	0.0301579	0.22151515	2.7052066	21	—	—
402595 2006 SV_{97}	18.0	X	209.23788	152.94600	192.17449	2.04901	0.2048581	0.23469145	2.6029822	21	3 5.9	22.5
402596 2006 SN_{105}	17.4	X	236.62379	315.94024	11.63690	4.35297	0.2251006	0.23866377	2.5740188	21	3 7.5	21.6
402597 2006 SQ_{129}	17.7	X	206.86721	4.66570	357.11068	9.04206	0.1768182	0.23919187	2.5702287	21	3 23.5	21.9
402598 2006 SV_{146}	17.5	X	120.06662	262.44652	193.68978	0.93694	0.0378954	0.23733724	2.5836011	21	4 10.0	20.8
402599 2006 SP_{150}	17.4	X	255.69485	89.77592	200.69925	2.83538	0.1219374	0.23374610	2.6099958	21	2 12.4	21.4
402600 2006 SV_{151}	17.2	X	231.74366	281.36978	3.05490	6.07761	0.1230114	0.22850396	2.6497621	21	1 15.9	21.5
402601 2006 SB_{154}	17.3	X	177.66569	52.03191	322.37279	4.94595	0.2724698	0.23267824	2.6179752	21	3 16.9	22.1
402602 2006 SK_{158}	17.9	X	208.07276	254.41440	112.26000	1.21626	0.1075013	0.23908289	2.5710097	21	4 1.4	21.8
402603 2006 SU_{160}	17.3	X	229.89532	175.93977	149.96880	3.13939	0.0980685	0.23451608	2.6042797	21	3 4.4	21.2
402604 2006 SG_{168}	17.4	X	201.73309	16.79101	348.88357	4.94013	0.1806661	0.23779144	2.5803101	21	3 23.8	21.7
402605 2006 SU_{176}	17.7	X	42.65598	122.82143	14.45728	7.60481	0.0613556	0.23048885	2.6345277	21	2 21.8	20.9
402606 2006 SC_{188}	17.4	X	265.25482	139.10375	143.95443	2.35557	0.1530445	0.23685847	2.5870814	21	2 10.9	21.4
402607 2006 SJ_{188}	17.1	X	155.37326	54.59543	17.66702	9.64525	0.1877648	0.23780633	2.5802024	21	5 2.9	21.3
402608 2006 SE_{214}	17.2	X	69.32364	158.79873	315.73846	2.06699	0.0884236	0.23196193	2.6233621	21	3 2.4	20.3
402609 2006 SB_{218}	17.4	X	202.69343	17.10548	4.79822	2.60960	0.2642735	0.23780635	2.5802022	21	4 13.4	22.0
402610 2006 SL_{236}	17.8	X	203.33587	283.27467	66.90007	0.82166	0.1150439	0.23732254	2.5837078	21	3 7.1	21.6
402611 2006 SD_{249}	17.4	X	285.37235	273.15913	347.82705	3.15371	0.0789214	0.23398920	2.6081877	21	2 14.3	21.1
402612 2006 SY_{259}	17.3	X	150.74707	114.92552	206.76300	5.49795	0.0775177	0.21928207	2.7235413	21	—	—
402613 2006 SN_{273}	16.9	X	176.12899	16.04422	27.19498	5.09533	0.2484967	0.23419893	2.6066303	21	4 19.7	21.4
402614 2006 SB_{280}	17.5	X	181.85200	272.44182	135.56386	5.74631	0.2649302	0.23730868	2.5838084	21	5 2.3	22.1
402615 2006 SC_{296}	17.3	X	73.34858	118.44329	330.53976	2.15561	0.0638255	0.22792820	2.6542226	21	2 1.3	20.6
402616 2006 SV_{313}	17.5	X	162.64697	248.10082	150.03726	2.07954	0.0799386	0.23403713	2.6078316	21	3 23.3	21.2
402617 2006 SA_{318}	18.3	X	214.13656	327.65335	43.83583	5.36655	0.2379660	0.23978370	2.5659978	21	4 11.2	22.7
402618 2006 SL_{318}	17.3	X	199.18925	208.57082	119.46765	4.02250	0.0611055	0.22900660	2.6458835	21	2 3.5	21.2
402619 2006 SC_{337}	17.2	X	228.44936	182.56539	133.48074	4.16682	0.2300626	0.23571604	2.5954338	21	2 15.1	21.5
402620 2006 SJ_{346}	17.2	X	272.14694	303.39392	324.45191	3.95814	0.0601675	0.23113366	2.6296256	21	2 9.7	20.8
402621 2006 SE_{363}	17.1	X	225.73327	226.84057	161.20846	5.46104	0.3315314	0.24187995	2.5511508	21	5 7.0	21.8
402622 2006 SK_{391}	17.6	X	227.26663	147.58119	154.55758	0.37546	0.0662041	0.23056778	2.6339264	21	2 1.5	21.4
402623 2006 SW_{398}	17.5	X	264.68169	335.47134	356.78518	10.50384	0.2061950	0.24465771	2.5318042	21	4 4.2	21.6
402624 2006 SK_{401}	17.4	X	119.49728	9.87472	57.25981	5.87519	0.1360972	0.22543472	2.6737585	21	3 20.8	21.1
402625 2006 TO_{17}	17.5	X	212.33967	333.73490	66.32580	2.89147	0.1838155	0.24200694	2.5502583	21	5 15.3	21.7
402626 2006 TT_{18}	17.3	X	153.92115	85.73166	315.26867	1.83250	0.1765323	0.23079579	2.6321914	21	3 24.8	21.5
402627 2006 TK_{32}	17.8	X	187.56427	333.27649	29.92440	1.33665	0.2050396	0.23253812	2.6190268	21	3 11.1	22.1
402628 2006 TC_{41}	18.6	X	229.61470	344.37817	16.89307	2.04479	0.2527752	0.24014928	2.5633930	21	4 9.1	22.9
402629 2006 TH_{43}	17.4	X	202.69152	12.60811	34.19343	3.75686	0.1711444	0.23968189	2.5667244	21	5 14.8	21.7
402630 2006 TW_{44}	17.2	X	166.15398	167.36054	214.55445	6.06280	0.2007109	0.22950350	2.6420630	21	3 13.4	21.6
402631 2006 TB_{50}	17.5	X	203.68563	24.07565	0.24469	4.39806	0.2540399	0.23811525	2.5779703	21	4 16.5	21.9
402632 2006 TL_{50}	17.5	X	224.42414	262.20306	118.84996	0.59846	0.1479942	0.23991841	2.5650372	21	5 4.2	21.6
402633 2006 TH_{59}	17.1	X	233.48489	347.05788	347.78358	3.38738	0.2687653	0.23736142	2.5834256	21	3 11.1	21.6
402634 2006 TD_{60}	17.0	X	78.29414	189.84331	247.07441	4.23709	0.1475879	0.22038912	2.7144132	21	2 2.9	20.2
402635 2006 TQ_{78}	17.2	X	97.27216	228.03693	194.85394	3.17693	0.0804514	0.22248505	2.6973387	21	2 3.1	20.8
402636 2006 TS_{99}	17.6	X	238.36640	307.62582	56.15255	2.31773	0.1717095	0.24242208	2.5473460	21	4 24.3	21.7
402637 2006 TC_{105}	16.7	X	157.68253	304.63469	50.16035	7.00156	0.0473446	0.22299408	2.6932324	21	1 21.9	20.5
402638 2006 TQ_{113}	17.2	X	176.13338	273.21954	99.86987	12.39323	0.2209043	0.23098438	2.6307585	21	3 19.7	21.9
402639 2006 TD_{118}	17.4	X	52.24471	302.33955	150.04853	12.16874	0.1952022	0.21774138	2.7363736	21	1 14.3	20.2
402640 2006 TF_{118}	16.9	X	247.40033	250.86370	102.60369	11.54834	0.1588588	0.24117702	2.5561054	21	4 26.2	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402641 2006 TV_{119}	15.8	X	258.49343	250.10943	147.73483	13.37777	0.1276254	0.18088012	3.0965314	21	7 4.4	20.6
402642 2006 TR_{124}	16.5	X	17.73177	110.56737	58.97221	15.51430	0.0900207	0.22539759	2.6740521	21	3 5.5	20.0
402643 2006 TD_{127}	17.8	X	180.47244	48.95354	313.68068	3.04476	0.1696971	0.23040106	2.6351969	21	3 2.1	22.0
402644 2006 TJ_{127}	16.8	X	221.94857	19.13355	263.44755	5.35172	0.0707491	0.22205803	2.7007957	21	1 4.1	20.9
402645 2006 US_{6}	17.3	X	133.81013	323.23558	73.83674	4.94159	0.1868493	0.22639530	2.6661901	21	3 4.9	21.3
402646 2006 UN_{12}	16.4	X	66.32771	17.20532	49.75240	11.56714	0.1156642	0.21786284	2.7353565	21	—	—
402647 2006 UJ_{17}	17.9	X	190.36310	25.64191	324.34559	0.51033	0.1375085	0.23116387	2.6293965	21	2 23.2	22.1
402648 2006 UO_{24}	17.6	X	153.93761	133.20332	272.05625	1.69646	0.2120755	0.23169225	2.6253973	21	4 1.6	21.9
402649 2006 UR_{39}	17.6	X	240.60140	101.14678	223.07876	1.58565	0.1888637	0.23599389	2.5933962	21	3 7.0	21.7
402650 2006 UL_{46}	17.4	X	203.53589	243.24681	111.87936	1.47850	0.1657300	0.23219861	2.6215791	21	3 14.5	21.7
402651 2006 UE_{55}	17.5	X	180.55384	29.51152	326.50872	2.56802	0.2367003	0.22935334	2.6432161	21	2 25.8	21.9
402652 2006 UG_{71}	17.3	X	152.68252	308.15119	90.28793	3.24284	0.2098244	0.22887446	2.6469018	21	3 25.8	21.6
402653 2006 UU_{77}	17.5	X	118.31414	162.99065	253.73135	2.40212	0.1697303	0.22634861	2.6665567	21	3 6.4	21.3
402654 2006 UA_{83}	17.3	X	187.73872	56.22746	268.02211	4.26969	0.0523517	0.22403686	2.6848688	21	1 16.6	21.0
402655 2006 UQ_{86}	16.9	X	85.56292	20.37142	37.16575	5.45773	0.1059448	0.21866181	2.7286893	21	1 17.4	20.3
402656 2006 UC_{87}	17.1	X	192.61917	105.16026	254.36925	0.89918	0.1748245	0.23067793	2.6330878	21	3 9.4	21.3
402657 2006 UK_{94}	17.3	X	118.52483	273.07074	165.36028	3.60672	0.1285816	0.22951191	2.6419985	21	3 30.4	20.8
402658 2006 UR_{96}	17.1	X	141.25246	326.37740	65.71846	3.53466	0.1542398	0.22727696	2.6592904	21	3 2.1	21.0
402659 2006 UC_{99}	16.8	X	154.23870	276.27135	101.42209	3.93273	0.1125246	0.22657220	2.6648022	21	2 21.3	20.7
402660 2006 UH_{104}	17.2	X	175.53351	325.02442	72.23957	4.52769	0.1598192	0.23323994	2.6137704	21	4 10.8	21.3
402661 2006 US_{119}	16.9	X	72.59536	77.17024	35.96793	11.39433	0.0567027	0.22869256	2.6483051	21	3 8.6	20.4
402662 2006 UH_{154}	17.6	X	202.37243	261.97249	101.10990	1.92451	0.2094250	0.23662046	2.5888160	21	3 23.1	22.0
402663 2006 UK_{164}	17.0	X	62.35365	300.31649	167.63256	4.65674	0.0432004	0.22617038	2.6679575	21	2 7.7	20.3
402664 2006 UU_{171}	17.3	X	174.99953	270.39507	99.63710	4.10818	0.1110423	0.22887140	2.6469253	21	3 5.5	21.4
402665 2006 UZ_{177}	17.3	X	137.96303	281.08539	153.18470	4.75796	0.2170113	0.23222388	2.6213889	21	4 25.8	21.5
402666 2006 UL_{192}	17.4	X	198.88095	73.20935	301.46864	5.72222	0.2104062	0.23580018	2.5948164	21	3 30.5	21.9
402667 2006 UB_{193}	17.2	X	159.11601	65.65923	357.11700	11.16918	0.3064248	0.23341456	2.6124666	21	4 29.2	22.0
402668 2006 UJ_{199}	17.0	X	214.25768	287.84258	51.53368	6.36179	0.2836479	0.23362235	2.6109173	21	3 6.2	21.8
402669 2006 UM_{212}	16.9	X	169.15097	331.15055	13.79193	5.87259	0.0543594	0.22133214	2.7066975	21	1 24.1	20.8
402670 2006 UX_{221}	17.7	X	217.29383	288.13659	75.92759	5.72374	0.2215249	0.24010629	2.5636989	21	4 6.5	22.1
402671 2006 UN_{238}	16.6	X	204.06007	64.54857	327.45487	16.64803	0.2161233	0.24002389	2.5642857	21	4 18.9	21.3
402672 2006 UK_{241}	16.7	X	189.11439	98.69503	273.60572	10.56871	0.1384306	0.23185648	2.6241575	21	3 15.5	21.1
402673 2006 UQ_{265}	16.9	X	171.57840	21.92672	7.01566	8.49341	0.1375555	0.23197244	2.6232828	21	3 25.1	21.0
402674 2006 UJ_{273}	16.7	X	37.92199	203.98045	251.75698	7.95971	0.1318841	0.21488189	2.7605959	21	—	—
402675 2006 UV_{279}	17.5	X	31.38146	357.71265	89.70101	2.07907	0.0363009	0.21459517	2.7630543	21	—	—
402676 2006 UN_{282}	17.7	X	227.05360	278.48624	75.07710	2.02719	0.1889389	0.23657712	2.5891322	21	4 1.4	21.9
402677 2006 UV_{285}	17.1	X	197.68459	313.78493	43.55918	3.44786	0.2086506	0.23234069	2.6205102	21	3 13.4	21.5
402678 2006 UF_{286}	17.2	X	203.86881	279.94143	55.70368	4.24033	0.1024273	0.22864861	2.6486445	21	2 20.3	21.2
402679 2006 UH_{335}	17.2	X	206.28193	178.92071	176.12071	2.77550	0.1564846	0.23230994	2.6207415	21	3 16.1	21.5
402680 2006 UE_{336}	17.4	X	257.89330	250.44092	27.01712	2.34054	0.1624774	0.22967312	2.6407620	21	1 29.2	21.5
402681 2006 UM_{336}	16.3	X	53.66142	275.80904	131.91838	13.01918	0.1535518	0.21365052	2.7711928	21	—	—
402682 2006 UD_{338}	17.0	X	237.62243	255.93713	70.86085	12.95299	0.2602124	0.23500964	2.6006322	21	3 12.1	21.8
402683 2006 UF_{346}	16.4	X	4.69783	232.41243	246.29133	8.75153	0.1859392	0.21310320	2.7759357	21	—	—
402684 2006 UH_{361}	17.4	X	170.53607	99.70649	301.71124	5.38526	0.2882912	0.23296539	2.6158235	21	4 12.3	22.2
402685 2006 VH_{2}	17.4	X	224.42525	304.47794	60.49402	6.43479	0.3155235	0.24019259	2.5630848	21	4 9.9	22.1
402686 2006 VO_{10}	17.6	X	202.81909	268.51373	87.94682	3.06747	0.2240945	0.23319101	2.6141360	21	3 16.5	22.2
402687 2006 VO_{11}	17.2	X	222.40103	73.82103	235.05134	2.76264	0.1674884	0.22794936	2.6540584	21	2 2.5	21.6
402688 2006 VW_{22}	17.4	X	199.67430	152.48901	208.53913	1.25814	0.0980793	0.23083214	2.6319150	21	3 16.6	21.5
402689 2006 VA_{27}	17.3	X	134.13432	353.19837	56.77117	6.20491	0.0951052	0.22579472	2.6709158	21	3 11.1	21.1
402690 2006 VB_{37}	17.8	X	198.96941	38.48525	358.99050	5.06216	0.3070397	0.23839276	2.5759692	21	4 28.2	22.5
402691 2006 VS_{40}	17.9	X	215.79049	261.83925	71.65767	2.80588	0.2145067	0.23172195	2.6251730	21	2 27.4	22.3
402692 2006 VN_{46}	16.7	X	40.46299	35.69050	46.92458	6.30038	0.0610834	0.21441777	2.7645781	21	—	—
402693 2006 VQ_{48}	17.0	X	224.35049	203.98368	173.60099	13.01705	0.2878549	0.24092144	2.5579129	21	4 26.2	21.7
402694 2006 VG_{51}	17.4	X	160.14800	152.41957	250.49243	1.52869	0.2066042	0.22883069	2.6472393	21	4 4.2	21.8
402695 2006 VU_{52}	17.3	X	149.91122	25.99335	350.81779	4.59442	0.1575312	0.22465939	2.6799066	21	2 19.9	21.3
402696 2006 VU_{64}	17.2	X	110.97308	358.08457	67.66468	4.85611	0.2075509	0.22345998	2.6894876	21	3 18.7	20.9
402697 2006 VB_{65}	18.2	X	16.66910	181.52824	226.78716	1.98629	0.1738232	0.27082810	2.3659573	21	—	—
402698 2006 VC_{65}	17.5	X	212.83151	198.73280	156.15492	1.14617	0.2316098	0.23352402	2.6116502	21	3 20.9	22.0
402699 2006 VD_{68}	16.9	X	249.07161	329.00366	65.69485	2.32426	0.2115761	0.24516710	2.5282960	21	6 9.5	20.7
402700 2006 VY_{81}	17.3	X	168.55367	358.14687	17.73742	3.94249	0.2173180	0.22915991	2.6447033	21	3 12.0	21.7
402701 2006 VK_{87}	17.4	X	180.87233	35.47022	341.98846	3.89704	0.2208675	0.23170921	2.6252693	21	3 22.1	21.9
402702 2006 VB_{90}	17.2	X	176.40631	36.69475	38.11237	4.22094	0.1915764	0.23697265	2.5862503	21	5 26.8	21.4
402703 2006 VO_{98}	17.5	X	223.37530	28.27833	352.39643	1.84341	0.2540740	0.24118285	2.5560642	21	4 27.2	21.8
402704 2006 VH_{104}	17.3	X	213.88326	261.11129	120.51541	4.56328	0.2416357	0.24007699	2.5639075	21	4 24.0	21.8
402705 2006 VD_{110}	17.2	X	186.67458	49.23924	332.06904	4.24338	0.1887513	0.23206660	2.6225732	21	3 29.8	21.5
402706 2006 VT_{112}	16.3	X	190.34986	96.15750	266.66554	11.25561	0.2026240	0.22967771	2.6407269	21	3 6.9	21.1
402707 2006 VG_{121}	16.5	X	170.29290	139.98240	246.40290	13.66268	0.0964276	0.23061221	2.6335881	21	3 11.6	20.7
402708 2006 VG_{128}	17.5	X	170.82806	77.46238	276.60422	5.10212	0.1620841	0.22528307	2.6749583	21	2 10.5	21.8
402709 2006 VW_{129}	17.0	X	46.08480	219.81438	224.46932	2.24918	0.0487235	0.21522143	2.7576916	21	—	—
402710 2006 VF_{147}	17.0	X	184.08139	22.76929	279.18201	3.87673	0.0319473	0.21403192	2.7678997	21	—	—
402711 2006 VG_{149}	17.1	X	198.25400	245.72479	139.57604	17.32326	0.3324482	0.23768531	2.5810782	21	4 20.7	22.2
402712 2006 VO_{150}	17.7	X	166.39936	38.67500	345.43457	1.86919	0.2250302	0.23030345	2.6359414	21	3 19.2	22.0
402713 2006 VO_{156}	17.3	X	94.72459	314.52171	122.24926	2.91756	0.2050671	0.22595369	2.6696629	21	3 10.0	20.5
402714 2006 WH_{7}	16.5	X	78.80702	331.59266	92.46076	6.56489	0.1207313	0.21761352	2.7374454	21	1 17.0	19.6
402715 2006 WF_{12}	17.1	X	152.99056	295.80042	112.59094	3.24077	0.1926127	0.22877768	2.6476482	21	4 5.8	21.4
402716 2006 WW_{17}	17.1	X	56.23679	201.31933	254.74180	5.18046	0.0439502	0.22107443	2.7088006	21	1 15.8	20.7
402717 2006 WQ_{20}	17.4	X	82.72797	312.92529	127.12061	3.70025	0.1396841	0.21979147	2.7193315	21	2 15.2	20.5
402718 2006 WT_{33}	17.4	X	129.99294	256.44416	152.14986	2.54550	0.1956837	0.22539331	2.6740860	21	3 14.2	21.4
402719 2006 WO_{36}	17.3	X	155.93534	164.05289	192.82457	5.78897	0.0420091	0.22040021	2.7143221	21	1 19.2	21.1
402720 2006 WK_{42}	16.8	X	219.20995	156.91168	203.17888	6.85736	0.2451893	0.23579354	2.5948650	21	3 30.7	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402721 2006 WP_{48}	16.7	X	33.42180	197.30718	265.58351	5.10365	0.0411227	0.21428638	2.7657081	21	—	—
402722 2006 WY_{55}	16.0	X	265.96159	213.15258	298.34295	11.71442	0.1139294	0.19102028	2.9859536	21	12 6.3	20.1
402723 2006 WR_{56}	17.3	X	188.42080	292.92310	64.75873	4.18095	0.2804631	0.22861251	2.6489233	21	3 9.2	22.0
402724 2006 WR_{67}	16.2	X	212.50907	102.60971	251.43163	11.66083	0.2147016	0.23151591	2.6267304	21	3 14.4	21.0
402725 2006 WN_{70}	16.9	X	7.64273	79.04371	35.56318	5.51618	0.0354236	0.21398415	2.7683117	21	—	—
402726 2006 WR_{86}	16.9	X	167.23570	156.13029	245.79585	6.30844	0.2727879	0.23099128	2.6307060	21	4 10.7	21.6
402727 2006 WS_{110}	17.1	X	72.22139	314.13442	103.30105	2.78880	0.0635707	0.21356470	2.7719352	21	—	—
402728 2006 WO_{123}	15.8	X	265.75436	225.00601	291.69507	11.11070	0.0588029	0.19150378	2.9809257	21	12 21.0	20.0
402729 2006 WE_{125}	16.8	X	49.67635	351.73056	88.30598	5.68272	0.0474886	0.21342428	2.7731509	21	—	—
402730 2006 WE_{133}	17.8	X	186.55452	114.65976	245.26087	2.73208	0.1821631	0.22926296	2.6439107	21	3 4.2	22.2
402731 2006 WS_{137}	16.9	X	212.56004	237.98035	69.07463	15.65606	0.1361303	0.22262338	2.6962213	21	1 27.4	21.4
402732 2006 WY_{154}	17.0	X	12.51288	40.30133	60.09261	5.37814	0.0252302	0.21194723	2.7860199	21	—	—
402733 2006 WJ_{158}	17.0	X	232.57298	191.59230	90.88415	5.81816	0.0371908	0.21855870	2.7295474	21	1 17.7	20.8
402734 2006 WR_{158}	17.3	X	157.55206	8.37308	33.45678	5.76792	0.2513386	0.22935909	2.6431719	21	4 5.1	21.8
402735 2006 WV_{163}	16.7	X	20.75863	60.70916	75.07294	9.87791	0.0996432	0.21833511	2.7314106	21	1 17.1	19.9
402736 2006 WN_{169}	17.0	X	180.15540	187.91925	119.93987	0.45579	0.0559620	0.21452950	2.7636181	21	—	—
402737 2006 WX_{169}	16.3	X	214.33215	24.97954	246.36797	6.18049	0.1668584	0.21394227	2.7686729	21	—	—
402738 2006 WH_{177}	16.7	X	204.48137	294.64691	115.57933	7.18551	0.1870197	0.23942582	2.5685541	21	5 22.7	21.0
402739 2006 WH_{201}	16.9	X	161.34664	265.97605	98.75780	12.33041	0.2116553	0.22256777	2.6966704	21	2 23.9	21.4
402740 2006 WX_{201}	16.0	X	259.00629	66.58730	115.39158	11.50782	0.0989442	0.19263277	2.9692671	21	—	—
402741 2006 XL	15.9	X	170.11921	135.59672	269.09377	12.32548	0.2397967	0.22953837	2.6417954	21	4 12.2	20.7
402742 2006 XG_{6}	16.9	X	195.90863	218.07979	174.56763	6.24854	0.3557526	0.23618684	2.5919836	21	4 23.5	21.9
402743 2006 XQ_{13}	17.5	X	156.99364	120.01202	260.76957	5.62077	0.2217807	0.22534647	2.6744565	21	3 5.0	22.0
402744 2006 XD_{16}	17.2	X	181.45563	257.13942	155.60493	6.14805	0.2867363	0.23557411	2.5964762	21	5 7.9	21.9
402745 2006 XQ_{26}	16.9	X	117.75715	331.64466	90.53881	12.96844	0.1820823	0.22340183	2.6899542	21	3 23.1	21.0
402746 2006 XA_{32}	17.3	X	238.60506	154.04094	87.48100	4.92307	0.0477118	0.21168620	2.7883097	21	—	—
402747 2006 XF_{32}	17.1	X	119.97470	295.20608	71.67805	7.50176	0.0705177	0.21247293	2.7814226	21	—	—
402748 2006 XA_{38}	16.8	X	65.01067	155.63999	286.41873	5.49776	0.2461491	0.21350434	2.7724576	21	2 2.5	19.5
402749 2006 XZ_{46}	16.4	X	189.15787	283.84556	73.62134	16.51840	0.2476815	0.22833586	2.6510625	21	3 15.4	21.4
402750 2006 XL_{73}	16.7	X	159.19143	267.41285	90.01650	3.91438	0.1099631	0.21520409	2.7578398	21	2 2.9	20.8
402751 2006 YW_{11}	17.3	X	70.88280	146.71844	289.25740	6.39993	0.1950018	0.21360436	2.7715920	21	1 29.2	20.2
402752 2006 YM_{12}	16.2	X	185.44748	254.08019	294.79043	14.46673	0.2929592	0.18040237	3.1019960	21	10 9.1	22.1
402753 2006 YQ_{14}	17.0	X	184.90928	302.84764	79.03092	3.60822	0.2342969	0.23078128	2.6323017	21	4 2.5	21.6
402754 2006 YW_{18}	15.9	X	132.73142	356.59319	326.79743	11.13963	0.0499778	0.19764116	2.9188904	21	—	—
402755 2006 YK_{21}	17.6	X	98.09702	107.31243	315.06502	1.01475	0.1616081	0.21765168	2.7371254	21	2 17.5	21.0
402756 2006 YC_{34}	17.2	X	170.50111	328.49862	81.31345	9.36629	0.3957281	0.23134332	2.6280366	21	5 1.1	22.4
402757 2006 YV_{48}	16.5	X	356.72075	352.72271	111.41153	18.52408	0.0601205	0.20236859	2.8732538	21	—	—
402758 2007 AT_{8}	16.5	X	45.80816	131.99402	288.02683	9.44183	0.0830721	0.20322254	2.8651991	21	—	—
402759 2007 AK_{14}	16.8	X	122.10989	289.21130	124.39306	13.79156	0.1939072	0.21874407	2.7280052	21	3 16.7	20.9
402760 2007 AN_{17}	16.9	X	85.60576	135.38497	293.89268	6.66857	0.2062787	0.21490111	2.7604313	21	2 14.1	20.3
402761 2007 AL_{31}	16.7	X	158.92765	255.28782	159.62894	16.70993	0.1779211	0.22370671	2.6875097	21	4 21.3	21.2
402762 2007 BF_{14}	16.2	X	69.64103	206.25706	117.81999	11.32803	0.1151833	0.18741141	3.0241642	21	12 9.3	20.7
402763 2007 BO_{25}	16.9	X	82.51224	136.45005	312.25376	8.32661	0.1289825	0.21501254	2.7594775	21	2 23.1	20.4
402764 2007 BW_{29}	15.8	X	217.94808	200.84881	328.50941	16.70962	0.1908488	0.18316694	3.0707042	21	10 16.7	21.0
402765 2007 BA_{33}	16.5	X	103.84222	70.31447	298.13552	4.99712	0.0797417	0.20453405	2.8529378	21	—	—
402766 2007 BL_{41}	16.4	X	345.00773	274.02461	129.45285	11.09029	0.0997771	0.18868755	3.0105133	21	11 22.6	20.3
402767 2007 BF_{47}	16.6	X	153.10614	144.10377	124.27261	10.67104	0.0306973	0.18875350	3.0098120	21	12 26.1	21.0
402768 2007 BS_{49}	16.7	X	36.86247	122.93859	347.68496	3.37392	0.0577131	0.20891226	2.8129376	21	1 11.9	20.2
402769 2007 BA_{52}	15.7	X	300.17101	297.64727	119.97210	19.29776	0.0810661	0.18068401	3.0987716	21	10 8.2	20.1
402770 2007 BS_{76}	16.7	X	62.96374	152.37251	304.40907	4.56743	0.0485203	0.21242273	2.7818608	21	1 29.2	20.2
402771 2007 BN_{77}	16.7	X	65.30131	65.89710	328.50445	8.50262	0.0656373	0.19913348	2.9042892	21	—	—
402772 2007 BL_{78}	16.3	X	152.80495	264.44998	318.16002	14.55677	0.2069067	0.17890942	3.1192289	21	10 25.7	21.9
402773 2007 BO_{78}	16.6	X	41.00755	134.28769	317.42620	11.51215	0.0731779	0.20595882	2.8397653	21	—	—
402774 2007 BK_{81}	16.3	X	154.50708	79.03959	142.06569	17.38782	0.2103563	0.17727650	3.1383540	21	11 6.1	21.9
402775 2007 CH_{3}	16.8	X	56.74771	274.34045	149.39023	9.68625	0.0453451	0.20257604	2.8712918	21	—	—
402776 2007 CR_{4}	18.2	X	153.51278	358.51980	151.22356	5.75075	0.0845555	0.30437787	2.1887391	21	8 8.4	21.0
402777 2007 CB_{15}	16.2	X	233.92372	249.23939	320.15100	10.96568	0.1108210	0.19168324	2.9790649	21	—	—
402778 2007 CD_{21}	16.6	X	341.27117	154.91744	312.15314	9.08317	0.0464936	0.19685517	2.9266548	21	—	—
402779 2007 CB_{30}	16.6	X	316.97201	158.19788	313.67109	9.65516	0.0394571	0.19343572	2.9610445	21	—	—
402780 2007 CR_{31}	16.2	X	105.31984	2.94838	315.41407	8.47142	0.0855089	0.19152858	2.9806684	21	—	—
402781 2007 CA_{35}	17.2	X	139.30865	92.90387	308.64658	27.26380	0.3376665	0.22255013	2.6968129	21	3 11.6	22.3
402782 2007 CH_{37}	16.2	X	126.08896	336.80794	323.37542	9.91878	0.1248868	0.19084112	2.9878221	21	—	—
402783 2007 CS_{47}	16.5	X	224.97427	29.15848	142.51396	9.87531	0.1784033	0.18564888	3.0432747	21	11 8.1	21.3
402784 2007 CD_{50}	17.0	X	92.83341	319.52415	124.25110	11.56924	0.3065691	0.21601958	2.7508947	21	4 6.7	21.0
402785 2007 DZ_{2}	15.2	X	174.45618	251.43470	338.34598	25.61806	0.1975477	0.18198447	3.0839915	21	11 18.2	20.9
402786 2007 DK_{5}	16.8	X	200.69069	82.19332	114.26201	11.65846	0.1396599	0.18638243	3.0352845	21	11 17.7	21.7
402787 2007 DA_{18}	17.0	X	198.36465	155.09009	50.77180	0.68482	0.1753901	0.18220986	3.0814477	21	11 19.9	22.0
402788 2007 DO_{24}	16.9	X	357.62551	112.44839	329.46758	9.03572	0.0302245	0.19178748	2.9779853	21	—	—
402789 2007 DW_{29}	15.9	X	133.24065	99.22543	158.75048	15.77248	0.1994876	0.17621024	3.1510016	21	11 28.6	21.5
402790 2007 DE_{32}	16.1	X	151.67000	266.27942	348.25226	12.63415	0.1081455	0.18081784	3.0972424	21	12 4.3	21.2
402791 2007 DK_{32}	16.5	X	153.33870	268.10682	3.71454	5.33799	0.1104961	0.18420657	3.0591397	21	12 28.7	21.4
402792 2007 DV_{34}	16.1	X	115.19986	111.29532	161.50242	10.84121	0.0614329	0.17784631	3.1316471	21	11 21.6	20.9
402793 2007 DO_{40}	15.7	X	106.16571	302.81458	345.52703	14.76026	0.1914269	0.17775685	3.1326977	21	12 5.7	21.1
402794 2007 DL_{50}	16.4	X	266.31441	340.64064	126.83484	11.13039	0.0747197	0.18549564	3.0449506	21	10 23.3	20.8
402795 2007 DO_{51}	15.8	X	128.35416	247.22715	353.38433	9.11769	0.0562324	0.17459569	3.1703974	21	10 22.3	20.7
402796 2007 DQ_{51}	15.4	X	174.60780	266.63492	346.71014	25.45297	0.2008213	0.18252863	3.0778589	21	12 25.4	21.0
402797 2007 DN_{54}	16.7	X	96.76320	310.47485	320.42863	3.64912	0.1666668	0.17407061	3.1767699	21	11 5.7	21.7
402798 2007 DJ_{61}	15.7	X	192.49008	82.24978	86.03905	16.55225	0.1597690	0.17592490	3.1544078	21	10 11.1	21.1
402799 2007 DZ_{61}	16.2	X	20.92532	279.74322	129.33922	12.56936	0.0169265	0.19101289	2.9860307	21	—	—
402800 2007 DY_{62}	16.9	X	177.81902	123.28874	72.77906	3.94399	0.2006336	0.17782315	3.1319189	21	10 22.5	22.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402801 2007 DD_{68}	18.2	X	111.71285	267.68010	28.55204	2.65339	0.1816673	0.31814415	2.1251361	21	—	—
402802 2007 DN_{68}	16.6	X	65.40882	50.65400	347.98680	10.14856	0.1431149	0.19738332	2.9214318	21	—	—
402803 2007 DD_{72}	16.4	X	143.72195	247.21481	355.87527	10.70138	0.0635774	0.17778066	3.1324180	21	11 10.7	21.3
402804 2007 DJ_{72}	16.7	X	83.52827	356.93341	33.86439	2.53024	0.1058020	0.19685952	2.9266117	21	—	—
402805 2007 DS_{73}	17.1	X	168.82780	134.51686	66.82822	0.36272	0.1220579	0.17534688	3.1613362	21	10 21.1	22.2
402806 2007 DS_{76}	16.3	X	287.07772	154.41092	347.98333	9.66079	0.1994193	0.19140729	2.9819274	21	12 13.5	19.9
402807 2007 DQ_{84}	17.6	X	81.30969	111.49732	321.35889	1.73184	0.1733842	0.21057512	2.7981093	21	2 9.9	20.9
402808 2007 DD_{89}	15.9	X	128.85101	112.51563	151.33394	16.59932	0.2123890	0.17709511	3.1404967	21	12 2.5	21.5
402809 2007 DG_{91}	16.9	X	147.57212	69.99955	336.54442	12.93060	0.2101476	0.21807777	2.7335590	21	3 25.9	21.5
402810 2007 DO_{98}	18.4	X	105.58208	35.56294	148.93527	5.92267	0.0904803	0.29937443	2.2130586	21	7 29.1	21.1
402811 2007 DE_{109}	16.0	X	297.07960	135.21533	352.67201	9.62318	0.0349151	0.18598011	3.0396602	21	12 28.1	20.3
402812 2007 DP_{114}	16.7	X	186.64755	82.07699	136.80570	3.00405	0.1613606	0.17756445	3.1349602	21	11 25.6	21.7
402813 2007 DL_{117}	16.4	X	269.16691	330.98262	155.48379	2.39705	0.1301669	0.18019285	3.1044000	21	11 6.7	20.5
402814 2007 EW_{1}	15.4	X	110.54064	331.24653	346.57946	17.33096	0.1490342	0.18528092	3.0473026	21	—	—
402815 2007 EL_{33}	16.5	X	359.52949	113.70656	332.64757	8.62636	0.0554412	0.19318161	2.9636406	21	—	—
402816 2007 EJ_{47}	18.1	X	21.22072	61.06348	191.11363	7.58086	0.1310137	0.28953934	2.2628946	21	6 28.9	20.1
402817 2007 EZ_{62}	16.3	X	332.89989	117.97340	3.69710	10.57858	0.0796991	0.19323156	2.9631298	21	—	—
402818 2007 EJ_{63}	16.9	X	235.78308	55.32845	130.35032	2.02156	0.1117792	0.18539950	3.0460031	21	12 10.7	21.4
402819 2007 EJ_{72}	16.1	X	200.10492	55.74008	175.37376	11.34103	0.0752417	0.18400414	3.0613829	21	12 28.8	20.9
402820 2007 EX_{98}	16.5	X	295.27438	133.08721	16.12153	5.66384	0.0679435	0.19000387	2.9965930	21	—	—
402821 2007 EK_{115}	15.7	X	211.60041	146.81868	40.81285	10.46962	0.0599980	0.17654891	3.1469706	21	11 19.5	20.4
402822 2007 EL_{133}	18.5	X	89.14614	264.05256	11.74654	2.26746	0.2080911	0.30686288	2.1769067	21	11 25.6	21.7
402823 2007 EF_{146}	16.3	X	92.94680	311.38964	22.75348	6.60474	0.0665692	0.18533967	3.0466586	21	—	—
402824 2007 EL_{156}	17.9	X	200.98257	192.47988	323.64085	5.21593	0.1845151	0.31017619	2.1613764	21	10 2.8	21.2
402825 2007 EV_{160}	15.3	X	285.38811	144.06265	339.61869	9.71738	0.0989053	0.18311314	3.0713057	21	11 26.9	19.5
402826 2007 EJ_{186}	16.7	X	181.34177	75.78093	125.88947	5.89620	0.0973646	0.17817405	3.1278055	21	11 5.4	21.6
402827 2007 EW_{215}	16.0	X	235.40796	31.46513	150.61515	12.04414	0.1509509	0.18320817	3.0702436	21	12 2.8	20.7
402828 2007 EJ_{220}	15.9	X	333.31676	63.28276	42.24631	9.49638	0.1039496	0.18500528	3.0503286	21	—	—
402829 2007 FP_{10}	16.8	X	213.84167	238.28835	311.42809	3.59594	0.1218364	0.17738483	3.1370762	21	11 18.5	21.6
402830 2007 FJ_{21}	16.4	X	243.18792	189.78674	342.82985	9.19011	0.0599414	0.18683771	3.0303516	21	12 9.8	20.9
402831 2007 FM_{30}	16.1	X	358.23575	72.66353	11.94454	4.20150	0.1790257	0.19035459	2.9929111	21	—	—
402832 2007 FJ_{39}	15.7	X	154.03604	315.28787	348.87310	9.30227	0.0832150	0.19060936	2.9902435	21	—	—
402833 2007 FB_{45}	16.3	X	123.43891	254.56640	4.66207	8.91576	0.1069393	0.17449459	3.1716219	21	11 11.7	21.4
402834 2007 GQ_{11}	18.0	X	81.33876	155.72727	103.76488	5.73006	0.1599892	0.30308923	2.1949386	21	10 25.6	21.0
402835 2007 GX_{27}	16.1	X	193.98038	62.44892	133.74848	14.52734	0.2345809	0.17546928	3.1598659	21	11 6.4	21.7
402836 2007 GW_{31}	15.5	X	199.59282	174.36773	26.07455	16.67503	0.0646870	0.17741113	3.1367661	21	11 18.5	20.3
402837 2007 HM_{12}	17.9	X	22.32983	271.65540	342.44631	1.07463	0.1889721	0.28750353	2.2735644	21	7 12.4	19.4
402838 2007 HY_{24}	18.5	X	171.97679	71.18052	119.92260	3.67867	0.0916428	0.30549032	2.1834223	21	10 28.9	21.4
402839 2007 HR_{72}	16.3	X	347.27797	271.86838	216.46244	3.09730	0.1373698	0.19290419	2.9664813	21	—	—
402840 2007 HV_{95}	15.8	X	161.45526	141.37893	203.33447	12.71015	0.1394971	0.19246462	2.9709963	21	1 23.2	20.7
402841 2007 LE_{1}	16.1	X	92.41815	99.32152	123.64733	16.29835	0.1458574	0.15389557	3.4486727	21	9 6.3	21.3
402842 2007 MX_{6}	16.0	X	156.99959	91.80729	161.34486	14.96913	0.0684776	0.17346560	3.1841521	21	12 10.8	21.1
402843 2007 PX	17.7	X	12.84207	326.48325	9.11444	0.62531	0.2576632	0.28849305	2.2683626	21	11 17.7	19.6
402844 2007 PY_{21}	17.5	X	323.89006	306.84706	23.79444	2.46025	0.2542107	0.27531470	2.3401828	21	6 16.0	19.2
402845 2007 PE_{46}	17.9	X	348.19111	289.80019	35.58881	0.66867	0.2127063	0.28082292	2.3094808	21	8 20.9	19.1
402846 2007 PU_{50}	17.4	X	16.92535	329.66887	346.35846	5.37523	0.1804865	0.28597179	2.2816757	21	10 9.7	19.5
402847 2007 QQ_{7}	17.1	X	308.19658	9.02134	334.13377	6.61360	0.1297420	0.27456131	2.3444618	21	6 28.8	19.6
402848 2007 QU_{7}	17.7	X	297.33541	215.61975	155.25482	3.34350	0.2547368	0.27564602	2.3383072	21	6 29.1	20.2
402849 2007 QT_{14}	18.4	X	235.96947	298.07148	119.78791	2.72420	0.1863228	0.27052196	2.3677420	21	6 28.8	21.9
402850 2007 QV_{16}	17.5	X	189.93152	248.30780	153.12817	11.38130	0.2572799	0.26023106	2.4297596	21	4 30.5	21.9
402851 2007 RE_{11}	17.9	X	294.60854	16.88609	7.96326	4.65565	0.2379297	0.27583157	2.3372585	21	7 20.8	20.4
402852 2007 RE_{12}	17.4	X	325.08870	45.52546	330.03211	6.62538	0.1186941	0.28163497	2.3050393	21	9 20.3	19.5
402853 2007 RE_{18}	17.7	X	310.36350	241.80819	80.17941	7.77480	0.1296537	0.27207296	2.3587349	21	5 30.8	20.2
402854 2007 RD_{36}	18.0	X	335.69992	109.86221	217.81469	1.68848	0.2340058	0.27707669	2.3302511	21	7 15.2	19.2
402855 2007 RY_{46}	17.0	X	289.94020	81.75992	336.73619	7.82537	0.0805299	0.28220054	2.3019585	21	9 26.0	19.5
402856 2007 RM_{83}	17.9	X	303.23134	175.84949	175.10214	2.18935	0.2132416	0.27448524	2.3448949	21	6 16.5	20.2
402857 2007 RT_{91}	17.9	X	347.99936	318.34903	352.54096	3.79628	0.1696279	0.27593397	2.3366802	21	7 25.7	19.5
402858 2007 RW_{91}	17.7	X	251.03723	48.71815	355.34505	1.24272	0.1865672	0.26993598	2.3711673	21	6 26.5	20.9
402859 2007 RQ_{93}	17.3	X	276.31571	310.90860	14.53079	9.44136	0.0608703	0.26165319	2.4209474	21	4 25.3	20.6
402860 2007 RP_{94}	17.9	X	320.31732	223.34821	162.75673	5.00942	0.1677557	0.28037860	2.3119200	21	9 27.3	19.5
402861 2007 RP_{96}	14.8	X	252.89643	11.73174	37.40168	8.18883	0.2504224	0.12537241	3.9536790	21	6 29.0	21.0
402862 2007 RR_{105}	15.1	X	249.94906	4.36655	28.92516	3.15586	0.2651314	0.12403995	3.9819425	21	6 6.3	21.3
402863 2007 RW_{126}	17.9	X	224.24557	237.98831	185.50060	1.98034	0.2342459	0.26635449	2.3923756	21	6 21.4	21.8
402864 2007 RM_{136}	18.2	X	236.18733	55.45218	9.22993	2.38538	0.3306938	0.26884039	2.3776050	21	6 26.4	22.2
402865 2007 RN_{145}	17.0	X	254.16253	213.42099	201.98653	5.57994	0.1772241	0.27092287	2.3654055	21	7 15.5	20.3
402866 2007 RF_{149}	17.8	X	350.26311	20.50887	342.00627	4.28203	0.1706775	0.28505383	2.2865715	21	10 26.7	19.5
402867 2007 RT_{149}	17.8	X	294.37683	273.84924	102.61470	7.60873	0.3519291	0.27400704	2.3476223	21	6 16.5	20.6
402868 2007 RV_{181}	18.0	X	204.68371	35.56600	6.98436	4.93652	0.1201686	0.26013647	2.4303485	21	5 10.3	21.7
402869 2007 RY_{194}	14.8	X	239.14223	56.03199	346.41249	4.56411	0.1357377	0.12455449	3.9709687	21	6 19.0	20.8
402870 2007 RM_{204}	17.5	X	10.70301	26.05486	264.02981	3.56698	0.1827912	0.27664764	2.3326598	21	8 13.0	19.3
402871 2007 RF_{205}	17.3	X	134.43459	122.96202	279.80581	3.14771	0.1173724	0.24645176	2.5195024	21	2 25.5	20.7
402872 2007 RA_{206}	18.5	X	333.72242	165.32795	168.81056	5.55978	0.2671003	0.27874618	2.3209374	21	7 15.7	19.7
402873 2007 RS_{212}	17.7	X	294.53438	314.67445	42.28530	3.07695	0.2202913	0.27246089	2.3564954	21	6 10.1	20.4
402874 2007 RB_{223}	17.7	X	249.38368	233.35899	179.88373	2.27553	0.2064976	0.26956314	2.3733532	21	7 4.5	21.3
402875 2007 RQ_{223}	17.9	X	269.96514	76.53796	326.39354	0.45889	0.1782433	0.27090586	2.3655045	21	7 19.3	20.8
402876 2007 RN_{229}	18.0	X	261.58745	17.34975	6.50975	2.49136	0.2160819	0.27097271	2.3651154	21	6 6.7	21.3
402877 2007 RS_{239}	17.8	X	295.78637	265.60658	115.07409	6.22546	0.2596525	0.27583738	2.3372256	21	7 10.7	20.3
402878 2007 RN_{248}	17.5	X	50.56804	69.67056	159.06929	5.57421	0.1258368	0.27211079	2.3585163	21	7 17.6	20.0
402879 2007 RV_{259}	17.7	X	184.76557	20.76245	61.93128	4.26095	0.2019632	0.26200205	2.4187979	21	6 12.9	21.7
402880 2007 RM_{261}	17.7	X	259.22576	319.02687	54.85802	5.75511	0.0993629	0.26683219	2.3895195	21	6 5.3	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402881 2007 RV_{268}	17.6	X	9.77846	148.68572	138.15258	4.71654	0.2234436	0.27722732	2.3294069	21	8 11.7	19.0
402882 2007 RA_{297}	17.1	X	269.30328	234.94275	215.93481	6.77084	0.1882408	0.20856395	2.8160686	21	9 14.6	20.9
402883 2007 RC_{299}	17.1	X	215.86324	286.20095	163.99083	6.68171	0.1342816	0.27073016	2.3665279	21	7 24.6	20.7
402884 2007 RE_{302}	17.2	X	329.80458	233.26744	38.14716	7.30717	0.0744950	0.25995542	2.4314768	21	4 26.9	19.7
402885 2007 RQ_{312}	17.8	X	234.29414	253.23125	154.21752	2.83459	0.1851583	0.26689625	2.3891371	21	6 13.7	21.5
402886 2007 RD_{320}	18.1	X	320.08977	94.81496	225.60234	1.26412	0.2050373	0.27296844	2.3535734	21	6 1.0	20.3
402887 2007 RW_{320}	17.4	X	274.70613	267.24932	105.24999	3.26365	0.1984434	0.27062443	2.3671442	21	6 9.4	20.5
402888 2007 RT_{322}	17.8	X	349.80392	146.58895	199.80000	5.76478	0.1347826	0.28207937	2.3026177	21	9 26.6	19.6
402889 2007 RJ_{324}	17.8	X	337.09594	234.22721	49.63795	4.40657	0.2467378	0.26713403	2.3877191	21	5 1.2	19.7
402890 2007 SR_{2}	18.1	X	306.32074	99.53168	282.67050	0.89190	0.1979173	0.27890147	2.3200758	21	8 13.9	20.2
402891 2007 SF_{3}	17.7	X	336.14217	333.37973	357.34581	4.79361	0.2462708	0.27771578	2.3266748	21	7 23.2	19.1
402892 2007 SG_{3}	17.6	X	16.01263	131.16618	184.13776	5.99640	0.1678544	0.28317192	2.2966911	21	10 6.7	19.5
402893 2007 SQ_{9}	18.0	X	340.11238	221.42034	122.65459	3.61502	0.1975282	0.27853736	2.3220973	21	9 2.3	19.5
402894 2007 SC_{19}	17.2	X	206.04159	313.23751	103.01950	7.35297	0.1187998	0.26068397	2.4269444	21	6 1.3	20.9
402895 2007 TD_{5}	17.5	X	13.44474	167.65405	197.05491	9.52428	0.1877192	0.28800647	2.2709168	21	12 19.0	20.0
402896 2007 TC_{10}	17.8	X	283.30646	324.67667	45.05980	2.34881	0.1994580	0.27079021	2.3661780	21	6 16.3	20.6
402897 2007 TW_{11}	18.1	X	336.60034	63.85013	297.23825	0.48212	0.2432037	0.27974347	2.3154180	21	9 21.6	19.2
402898 2007 TJ_{12}	15.7	X	284.68713	319.74471	45.12332	6.05214	0.2679190	0.12607853	3.9389030	21	6 5.4	21.3
402899 2007 TE_{17}	17.8	X	227.36916	20.36519	18.39380	1.84707	0.1850991	0.26169023	2.4207190	21	5 26.0	21.4
402900 2007 TL_{20}	17.4	X	351.96715	274.43835	52.09034	3.21929	0.2424838	0.27837512	2.3229994	21	9 6.9	18.4
402901 2007 TF_{36}	17.2	X	306.61225	79.95291	343.27922	21.57519	0.2944185	0.28533844	2.2850508	21	9 28.1	18.8
402902 2007 TG_{38}	18.1	X	295.66318	330.14886	32.36057	1.87212	0.1994665	0.27290203	2.3539553	21	6 24.1	20.8
402903 2007 TH_{38}	17.5	X	23.05476	279.52241	16.89876	6.83166	0.1525126	0.27965038	2.3159318	21	9 18.9	19.6
402904 2007 TY_{41}	17.9	X	269.69420	208.18303	180.55079	1.76738	0.1427637	0.27317845	2.3523671	21	7 3.9	21.0
402905 2007 TU_{43}	17.1	X	295.47090	57.40131	331.76048	6.09594	0.1376951	0.27424485	2.3462650	21	8 15.3	19.3
402906 2007 TU_{52}	17.1	X	195.43647	104.83407	28.65014	5.94616	0.0825053	0.27265601	2.3553710	21	9 6.1	20.3
402907 2007 TF_{56}	17.5	X	242.40313	7.65202	22.83598	2.35333	0.1976823	0.26384440	2.4075249	21	5 28.7	21.1
402908 2007 TW_{57}	18.1	X	287.22628	177.30147	208.52363	0.79569	0.1833108	0.27170614	2.3608574	21	7 18.3	20.7
402909 2007 TL_{68}	17.6	X	291.32093	250.55374	125.70813	2.23268	0.1919336	0.27228421	2.3575147	21	7 9.1	20.1
402910 2007 TC_{72}	17.5	X	266.02673	117.56261	312.55434	0.75070	0.1527773	0.27302482	2.3532494	21	8 25.9	20.2
402911 2007 TB_{78}	17.3	X	273.42819	94.51220	311.25678	1.40754	0.1772280	0.27188234	2.3598372	21	7 28.4	20.0
402912 2007 TG_{80}	17.1	X	238.26752	320.30726	99.71700	2.41293	0.1640743	0.26830673	2.3807566	21	7 6.5	20.4
402913 2007 TM_{97}	17.6	X	315.81772	246.55489	102.80190	2.24336	0.2052941	0.27438421	2.3454705	21	7 9.3	19.5
402914 2007 TB_{122}	17.2	X	264.77809	354.09330	53.41702	2.40839	0.1770284	0.27084004	2.3658877	21	7 19.6	20.2
402915 2007 TW_{126}	18.3	X	253.16749	209.63859	181.97157	2.52373	0.2338648	0.26592702	2.3949387	21	6 7.1	21.8
402916 2007 TE_{130}	17.8	X	259.57208	162.31337	195.79025	2.11176	0.1032312	0.26056179	2.4277030	21	5 15.5	21.2
402917 2007 TV_{130}	17.3	X	287.60823	259.17252	142.64436	6.06487	0.2318179	0.27306599	2.3530129	21	8 3.1	20.0
402918 2007 TD_{137}	17.8	X	1.71151	80.46366	216.38296	2.80009	0.1801157	0.27257772	2.3558220	21	8 2.1	19.6
402919 2007 TK_{140}	17.5	X	262.32064	280.89239	88.28783	2.38453	0.2228441	0.26572888	2.3961291	21	5 18.9	20.9
402920 Tsawout	15.6	X	272.88104	274.17312	117.72626	12.12919	0.2729741	0.12650712	3.9300017	21	6 25.4	21.4
402921 2007 TD_{143}	17.0	X	231.39492	317.29511	98.75458	6.25294	0.2313561	0.26468191	2.4024436	21	6 18.5	20.8
402922 2007 TG_{150}	18.1	X	337.15882	21.38082	339.55476	7.02748	0.2370979	0.28132357	2.3067400	21	9 21.6	19.3
402923 2007 TX_{151}	17.4	X	285.02815	72.52040	287.67204	3.97533	0.1919657	0.27133285	2.3630222	21	6 5.9	20.2
402924 2007 TP_{156}	17.9	X	291.75803	14.66022	7.25230	5.94609	0.2453745	0.27336982	2.3512691	21	7 9.9	20.6
402925 2007 TN_{157}	17.8	X	242.30107	111.63294	233.29498	2.06640	0.2320606	0.25960601	2.4336580	21	3 29.2	21.7
402926 2007 TT_{162}	15.5	X	273.61961	355.89570	26.21843	3.07765	0.2406066	0.12600334	3.9404698	21	6 18.0	21.2
402927 2007 TS_{165}	17.5	X	217.55673	156.92324	282.76875	1.19165	0.1472421	0.26683769	2.3894866	21	7 12.2	21.1
402928 2007 TD_{172}	17.5	X	330.12875	234.41955	119.35174	2.90685	0.1942116	0.27665425	2.3326226	21	8 23.1	19.1
402929 2007 TU_{176}	17.7	X	239.09546	6.43200	47.96734	3.02119	0.1698649	0.26679254	2.3897562	21	6 29.3	21.2
402930 2007 TJ_{181}	17.4	X	260.96919	273.18236	98.32051	6.52258	0.1497736	0.26581172	2.3956312	21	5 29.9	20.7
402931 2007 TJ_{213}	17.6	X	198.04660	112.83226	312.92257	2.61354	0.1622901	0.25984302	2.4321779	21	6 3.3	21.5
402932 2007 TN_{213}	17.5	X	200.19092	71.84241	12.00450	7.10250	0.2208416	0.26196168	2.4190464	21	6 27.9	21.6
402933 2007 TB_{214}	18.0	X	245.78891	38.42176	344.71521	3.15343	0.2008213	0.26324946	2.4111509	21	5 21.7	21.8
402934 2007 TO_{223}	17.4	X	241.88308	270.67338	91.91746	16.58242	0.1590638	0.25889848	2.4380899	21	5 2.9	21.4
402935 2007 TH_{239}	17.6	X	323.98854	228.98366	78.45925	3.36118	0.2343662	0.26947313	2.3738817	21	5 14.3	19.9
402936 2007 TP_{243}	17.7	X	314.39640	70.30018	314.59277	7.86185	0.2258960	0.27853708	2.3220989	21	8 30.1	19.4
402937 2007 TQ_{252}	17.9	X	359.01148	84.38356	196.78292	3.52389	0.1680762	0.27039869	2.3684615	21	6 29.1	19.7
402938 2007 TO_{260}	15.3	X	283.74416	309.88775	59.51248	3.54407	0.2602604	0.12553798	3.9502019	21	6 11.2	21.0
402939 2007 TP_{262}	18.1	X	293.40685	313.49346	35.78619	1.81981	0.2034315	0.26750664	2.3855014	21	5 31.4	21.0
402940 2007 TK_{266}	18.0	X	264.90706	305.40791	83.92894	1.36133	0.2371549	0.26776449	2.3839697	21	6 15.6	21.2
402941 2007 TA_{275}	15.8	X	261.81021	243.73699	147.64510	3.57206	0.2788231	0.12574621	3.9458399	21	6 13.6	22.0
402942 2007 TT_{311}	17.6	X	322.53875	142.37290	102.93782	2.98286	0.1381285	0.25402828	2.4691530	21	3 2.3	20.5
402943 2007 TZ_{322}	17.5	X	256.78241	344.82221	72.37120	5.95391	0.1940546	0.27142493	2.3624877	21	7 21.2	20.8
402944 2007 TT_{331}	17.7	X	286.66447	338.41552	13.32156	5.81972	0.1416895	0.26563972	2.3966652	21	6 3.7	20.8
402945 2007 TB_{333}	17.6	X	309.18621	66.82359	308.92779	1.28311	0.2084865	0.27443737	2.3451676	21	8 7.3	19.5
402946 2007 TN_{348}	18.1	X	339.19849	248.89201	135.14899	2.38989	0.2794529	0.28692318	2.2766291	21	11 21.7	19.0
402947 2007 TS_{355}	17.2	X	333.99504	194.04499	159.30585	13.47060	0.2652353	0.27798456	2.3251748	21	8 25.6	18.0
402948 2007 TT_{362}	16.9	X	126.92075	119.34349	61.97829	7.75850	0.0594578	0.26544645	2.3978284	21	8 20.7	20.2
402949 2007 TL_{364}	15.7	X	259.28680	173.64352	232.17776	4.93790	0.2805680	0.12502315	3.9610387	21	6 27.4	21.8
402950 2007 TV_{366}	17.6	X	307.02742	23.98209	328.28451	3.28529	0.2087896	0.27094103	2.3652998	21	6 26.3	19.9
402951 2007 TK_{369}	17.5	X	14.09930	343.84117	2.18881	3.97162	0.1622270	0.28239745	2.3008883	21	11 16.0	19.7
402952 2007 TD_{376}	17.3	X	344.04566	313.93461	8.60725	6.44305	0.1416407	0.27213572	2.3583722	21	8 7.9	19.3
402953 2007 TL_{378}	17.1	X	118.05669	195.14864	217.12253	14.60291	0.0995907	0.24371732	2.5383127	21	2 11.3	20.8
402954 2007 TV_{385}	14.8	X	255.26203	303.83558	93.57993	10.52035	0.2704243	0.12444347	3.9733300	21	6 15.7	20.9
402955 2007 TN_{386}	17.9	X	248.84604	332.28545	50.30740	2.92938	0.2417091	0.26408868	2.4060401	21	5 21.0	21.7
402956 2007 TP_{388}	18.2	X	205.56350	2.57185	68.25197	2.29639	0.1599983	0.26467685	2.4024743	21	6 17.5	21.8
402957 2007 TJ_{400}	17.8	X	283.40861	43.37475	321.86902	3.48667	0.1498319	0.27154459	2.3617936	21	6 18.2	20.6
402958 2007 TG_{406}	15.4	X	258.87030	42.25241	357.41903	2.46150	0.2247292	0.12535317	3.9540834	21	6 26.1	21.3
402959 2007 TU_{406}	17.8	X	299.85225	348.44588	38.74270	2.14203	0.1956986	0.27392492	2.3480915	21	8 10.5	20.0
402960 2007 TT_{433}	17.6	X	253.06398	306.58749	125.43815	5.17780	0.1763601	0.27207009	2.3587515	21	8 8.1	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
402961 2007 TY_{435}	17.4	X	247.63378	247.84134	122.11561	7.11851	0.1212271	0.25895223	2.4377525	21	5 17.3	20.9
402962 2007 TM_{439}	18.1	X	288.87691	329.82154	350.09475	2.35572	0.1710127	0.26322416	2.4113054	21	4 18.9	21.2
402963 2007 TR_{447}	16.9	X	245.30833	316.53435	71.88229	6.83013	0.0396145	0.26453121	2.4033560	21	6 15.9	19.8
402964 2007 UP_{3}	17.3	X	283.09400	33.31157	328.54490	6.77741	0.2111488	0.26881746	2.3777402	21	6 1.9	20.6
402965 2007 UT_{4}	17.9	X	297.63709	43.88370	13.02491	1.76906	0.2138323	0.27912348	2.3188454	21	9 19.4	19.8
402966 2007 UE_{9}	15.5	X	261.62240	302.34598	103.22280	4.47059	0.2691961	0.12636975	3.9328492	21	6 30.7	21.5
402967 2007 UG_{18}	17.9	X	272.03312	299.29420	108.23162	5.73742	0.2318706	0.27235492	2.3571066	21	7 20.4	20.9
402968 2007 UT_{29}	18.3	X	252.99490	146.43738	196.44728	8.39813	0.2170849	0.26040022	2.4287071	21	4 6.6	21.9
402969 2007 UY_{47}	17.6	X	274.31013	259.84818	76.20741	3.12674	0.1952357	0.26008181	2.4306890	21	4 22.3	21.1
402970 2007 UB_{49}	17.5	X	269.53125	305.63700	71.90726	6.82157	0.1257263	0.26577721	2.3958386	21	6 20.4	20.6
402971 2007 UG_{56}	17.7	X	282.51402	207.72892	209.90225	4.82676	0.1515702	0.27679170	2.3318504	21	8 31.7	20.4
402972 2007 UZ_{59}	17.5	X	271.46766	122.48079	266.00185	1.13142	0.2147779	0.26848869	2.3796809	21	6 25.2	20.4
402973 2007 UB_{96}	17.7	X	255.06607	97.07603	314.64016	1.94668	0.1806422	0.26897891	2.3767887	21	7 12.5	21.0
402974 2007 UT_{96}	17.7	X	345.81575	48.74274	271.54186	0.77411	0.1903865	0.27174746	2.3606180	21	8 3.2	19.4
402975 2007 UX_{114}	17.4	X	291.21355	339.08041	31.05542	5.21905	0.2034864	0.26962336	2.3729998	21	6 28.0	20.2
402976 2007 UM_{132}	15.0	X	291.66792	291.11772	69.58949	3.85419	0.2558024	0.12610773	3.9382950	21	6 10.7	20.4
402977 2007 UD_{136}	17.7	X	310.34079	231.18864	140.95235	3.34626	0.2054030	0.27428210	2.3460526	21	8 4.2	19.4
402978 2007 UT_{138}	17.4	X	331.22498	181.35528	212.76105	5.92667	0.1308134	0.27894376	2.3198413	21	11 3.6	19.1
402979 2007 US_{140}	17.3	X	257.10564	287.99356	121.58576	6.64512	0.1830507	0.26779631	2.3837809	21	7 11.3	20.6
402980 2007 UZ_{141}	15.6	X	290.74412	23.19831	355.70440	2.31825	0.2589830	0.12487190	3.9642367	21	7 1.4	21.1
402981 2007 VF_{12}	17.7	X	306.02932	321.28053	54.29024	3.01132	0.2235187	0.27310477	2.3527902	21	7 29.7	19.8
402982 2007 VV_{14}	17.8	X	273.68761	257.18206	98.56907	3.63434	0.2024836	0.26378800	2.4078681	21	5 16.5	21.0
402983 2007 VP_{40}	17.3	X	326.60188	223.42706	83.52069	6.09167	0.2328912	0.26813497	2.3817732	21	5 19.6	19.4
402984 2007 VZ_{58}	17.4	X	222.82585	6.44066	31.89440	5.81704	0.1797942	0.25890759	2.4380327	21	5 20.9	21.3
402985 2007 VN_{73}	17.0	X	189.24047	73.16020	247.16404	8.83570	0.1067039	0.23617490	2.5920709	21	1 13.3	21.0
402986 2007 VJ_{80}	18.3	X	280.38886	334.02895	43.97715	2.05448	0.1949613	0.26728210	2.3868372	21	6 25.1	21.1
402987 2007 VX_{85}	17.5	X	312.19146	16.75042	349.10966	6.07000	0.1671830	0.27420480	2.3464935	21	8 6.6	19.6
402988 2007 VX_{87}	17.7	X	260.22252	91.54813	298.15727	4.22827	0.2304481	0.26625864	2.3929497	21	6 11.7	21.3
402989 2007 VF_{89}	17.4	X	280.99789	271.01317	106.66623	2.14877	0.1895853	0.26941166	2.3742427	21	6 26.3	20.1
402990 2007 VJ_{100}	17.3	X	65.70325	151.38823	267.28774	5.01859	0.0953769	0.22903828	2.6456395	21	—	—
402991 2007 VJ_{151}	16.6	X	174.92465	333.62828	89.93363	6.31207	0.1011940	0.25235956	2.4800258	21	5 9.8	20.2
402992 2007 VQ_{153}	17.7	X	194.24930	204.01028	228.52188	4.48856	0.1193623	0.26224671	2.4172933	21	6 9.6	21.3
402993 2007 VB_{162}	17.3	X	53.35948	122.33523	29.54686	4.42257	0.1524086	0.24209607	2.5496324	21	4 4.1	19.9
402994 2007 VU_{166}	17.7	X	101.21062	23.66264	94.10491	2.90656	0.0947347	0.24602692	2.5224020	21	4 23.1	20.9
402995 2007 VC_{199}	16.8	X	54.10473	301.67795	41.23994	9.07356	0.0867224	0.21711959	2.7415954	21	12 13.3	20.6
402996 2007 VD_{228}	16.7	X	44.21761	128.37623	12.23258	5.97846	0.1874450	0.23768832	2.5810564	21	3 5.1	19.0
402997 2007 VO_{232}	17.1	X	237.31922	282.81949	62.84879	7.75095	0.1146803	0.25234928	2.4800932	21	4 6.3	20.8
402998 2007 VQ_{243}	17.9	X	240.20667	316.02853	71.36708	1.81458	0.1581658	0.26110582	2.4243297	21	5 26.4	21.3
402999 2007 VJ_{264}	17.7	X	319.94930	331.40763	26.05117	1.84398	0.1997311	0.27205173	2.3588576	21	8 2.9	19.7
403000 2007 VJ_{265}	17.2	X	92.48692	209.72365	262.24505	8.00165	0.1275773	0.24225221	2.5485366	21	4 3.3	20.6
403001 2007 VE_{266}	17.2	X	288.65228	293.21578	91.87748	3.21251	0.2251096	0.26940584	2.3742769	21	7 12.4	20.0
403002 2007 VE_{270}	17.4	X	322.85941	146.79962	258.52326	6.73714	0.1824692	0.27908140	2.3190785	21	10 31.7	19.2
403003 2007 VG_{270}	16.9	X	76.66828	93.95878	49.10503	5.75299	0.2409379	0.24302766	2.5431126	21	5 15.8	19.9
403004 2007 VV_{276}	17.7	X	315.90513	31.09074	275.91600	5.41794	0.1515705	0.26405316	2.4062558	21	5 12.6	20.4
403005 2007 VP_{283}	17.2	X	278.87367	246.72758	64.13802	3.31254	0.2014357	0.25447599	2.4662561	21	3 25.9	20.9
403006 2007 VD_{288}	17.3	X	207.61004	143.01877	310.81042	4.47208	0.1575553	0.26336090	2.4104707	21	7 20.5	21.0
403007 2007 VA_{291}	17.5	X	190.61749	356.64965	88.74950	3.60375	0.1367839	0.25822094	2.4423528	21	6 22.6	21.3
403008 2007 VH_{298}	16.6	X	43.76467	330.89012	119.04434	14.84763	0.2154429	0.23152585	2.6266552	21	—	—
403009 2007 VP_{305}	17.1	X	106.53673	216.02349	254.66256	5.09230	0.1408133	0.24459795	2.5322165	21	4 25.1	20.6
403010 2007 VS_{312}	17.5	X	219.51605	347.97334	65.12724	7.31402	0.1058744	0.25882075	2.4385780	21	6 11.2	21.0
403011 2007 VE_{328}	15.3	X	289.71784	79.09419	305.14159	4.95826	0.2437117	0.12457131	3.9706112	21	7 8.9	20.7
403012 2007 VD_{332}	16.7	X	105.38699	127.62812	259.28126	10.70840	0.1357999	0.23158187	2.6262315	21	1 4.7	20.1
403013 2007 VX_{332}	17.5	X	252.50904	83.63625	322.87708	6.21159	0.1148339	0.26705818	2.3881712	21	7 11.8	20.7
403014 2007 VH_{333}	17.2	X	171.85843	311.81644	95.74723	8.16173	0.2365656	0.24380912	2.5376755	21	4 24.3	21.6
403015 2007 WP_{5}	17.2	X	340.81526	314.71234	1.96226	6.30383	0.2490565	0.27284267	2.3542967	21	7 9.6	18.6
403016 2007 WY_{7}	17.9	X	276.22579	29.50574	350.72904	3.78587	0.2643025	0.26789456	2.3831980	21	6 12.1	21.3
403017 2007 WJ_{24}	17.6	X	147.09337	17.96753	73.36475	7.43924	0.1466619	0.25232963	2.4802220	21	5 18.5	21.2
403018 2007 WY_{27}	17.2	X	103.06109	167.04948	291.40652	4.45559	0.1290208	0.24218656	2.5489972	21	4 1.3	20.6
403019 2007 WY_{55}	17.3	X	268.35915	146.89531	267.40420	1.69962	0.1870475	0.26929507	2.3749280	21	7 31.4	20.3
403020 2007 WV_{61}	16.6	X	138.05198	155.19826	286.27791	11.16319	0.1242999	0.24658212	2.5186143	21	4 18.1	20.5
403021 2007 WZ_{62}	16.5	X	239.69041	25.02345	285.53377	13.96523	0.0903950	0.23787754	2.5796875	21	2 17.3	20.5
403022 2007 XG_{3}	17.5	X	259.88011	291.61999	80.87783	11.73684	0.2780856	0.26326747	2.4110409	21	5 17.2	21.3
403023 2007 XR_{5}	17.3	X	238.36962	256.98247	140.01492	3.66926	0.1964176	0.26157759	2.4214139	21	6 3.5	21.1
403024 2007 XU_{16}	17.4	X	328.92784	82.63418	284.05698	4.21762	0.2629516	0.27503150	2.3417890	21	9 1.5	18.7
403025 2007 XH_{20}	16.3	X	342.36129	234.64187	255.93179	26.02832	0.0510446	0.22565060	2.6720529	21	—	—
403026 2007 XL_{35}	16.9	X	318.96257	120.99092	285.24313	7.61162	0.0946505	0.27766955	2.3269330	21	10 25.3	19.3
403027 2007 XE_{45}	17.3	X	296.72229	247.52118	94.87298	3.14386	0.2182241	0.26228372	2.4170659	21	5 24.8	20.3
403028 2007 XE_{50}	17.1	X	165.41116	295.56412	132.47549	1.59801	0.1452517	0.24673577	2.5175686	21	5 6.9	20.8
403029 2007 XK_{52}	17.1	X	227.03462	296.29236	109.08342	9.42123	0.1888608	0.25629596	2.4545669	21	6 4.9	21.1
403030 2007 XX_{56}	17.9	X	288.92148	141.76230	259.51680	1.48986	0.1947505	0.27120398	2.3637707	21	8 10.9	20.5
403031 2007 YG_{14}	16.4	X	274.50612	229.12072	305.63512	13.84189	0.1808295	0.21140180	2.7908099	21	—	—
403032 2007 YF_{43}	16.9	X	222.93270	123.25367	82.38977	7.94982	0.2609378	0.20601379	2.8392602	21	12 7.2	21.4
403033 2007 YK_{53}	17.3	X	110.29227	332.65668	116.50011	1.88490	0.1196623	0.23683252	2.5872704	21	4 1.2	20.7
403034 2007 YU_{58}	16.3	X	308.69693	62.93615	102.82170	15.67892	0.2701650	0.21430483	2.7655493	21	—	—
403035 2007 YB_{59}	17.6	X	90.90225	1.51699	100.20884	22.74767	0.0711101	0.38306209	1.8776873	21	2 18.3	19.5
403036 2007 YN_{62}	17.6	X	132.30235	127.06687	305.21037	3.83269	0.1593568	0.23905631	2.5712003	21	4 7.4	21.3
403037 2007 YX_{67}	17.1	X	114.25096	21.86726	65.62527	8.71810	0.1656906	0.23850354	2.5751715	21	4 13.1	20.7
403038 2007 YG_{68}	17.0	X	104.36793	314.68597	127.13647	9.80869	0.1391847	0.23451779	2.6042671	21	3 20.8	20.5
403039 2008 AE	19.7	X	94.94109	26.91495	132.12829	11.57149	0.1307275	0.68374567	1.2760656	21	5 22.5	19.1
403040 2008 AZ_{4}	17.4	X	107.82825	329.81160	122.69061	5.79235	0.2334908	0.23734808	2.5835224	21	4 20.6	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403041 2008 AC_{5}	16.8	X	44.28837	217.02048	310.94177	3.55188	0.1091861	0.23516299	2.5995015	21	4 4.8	19.8
403042 2008 AC_{14}	16.4	X	211.60011	279.88135	266.57652	5.17806	0.0544082	0.20180706	2.8785812	21	11 23.4	20.4
403043 2008 AZ_{18}	17.4	X	235.31753	50.42831	5.65848	2.32736	0.1881517	0.25644385	2.4536231	21	6 25.9	21.0
403044 2008 AO_{26}	16.3	X	130.64028	124.66786	296.68082	28.27360	0.0995619	0.23603001	2.5931316	21	2 28.2	20.5
403045 2008 AD_{29}	16.8	X	335.07058	209.33296	316.29516	12.08778	0.1133124	0.22244677	2.6976482	21	—	—
403046 2008 AU_{30}	17.0	X	244.24315	100.83928	121.42971	8.54929	0.1682046	0.21345700	2.7728675	21	—	—
403047 2008 AB_{32}	16.6	X	57.27966	171.80570	322.84876	25.86226	0.2000009	0.23013679	2.6372139	21	3 10.9	19.7
403048 2008 AR_{35}	18.0	X	234.80341	93.71292	308.53174	1.84450	0.2115068	0.25595304	2.4567588	21	6 5.1	21.7
403049 2008 AY_{36}	17.6	X	309.22491	199.99501	234.57043	4.81941	0.3220699	0.27783553	2.3260062	21	11 1.7	18.5
403050 2008 AC_{67}	17.0	X	19.87278	150.89711	333.23436	3.34373	0.1995439	0.22282364	2.6946056	21	—	—
403051 2008 AC_{71}	17.3	X	106.63204	153.63862	297.02877	3.80505	0.1993374	0.23556961	2.5965093	21	4 7.3	20.8
403052 2008 AP_{76}	16.5	X	301.69727	136.76354	88.27986	4.96466	0.1035388	0.22656076	2.6648918	21	1 17.6	20.1
403053 2008 AJ_{77}	17.8	X	119.89041	112.74399	317.07980	13.47230	0.1430078	0.23567460	2.5957380	21	3 15.3	21.6
403054 2008 AN_{78}	16.7	X	45.28884	24.67306	110.59607	12.93685	0.1343519	0.23069182	2.6329822	21	2 28.0	19.6
403055 2008 AR_{84}	17.0	X	37.01579	202.85902	283.91150	6.44555	0.2547727	0.22844796	2.6501952	21	1 27.3	18.8
403056 2008 AV_{91}	16.7	X	228.31635	286.55138	326.19715	7.83810	0.1871704	0.21742625	2.7390171	21	—	—
403057 2008 AZ_{107}	17.4	X	234.07036	262.18319	126.91595	2.61704	0.1985490	0.25356363	2.4721686	21	5 20.4	21.3
403058 2008 AZ_{114}	17.2	X	192.75667	2.47987	350.93187	3.76047	0.0745502	0.23105689	2.6302080	21	2 28.1	20.9
403059 2008 AO_{115}	17.6	X	152.00869	86.55052	328.96713	3.52230	0.1653591	0.23701399	2.5859496	21	4 7.8	21.5
403060 2008 AW_{137}	17.5	X	199.17059	47.52413	344.92530	4.29650	0.1024924	0.24125444	2.5555586	21	4 22.6	21.4
403061 2008 BR_{5}	17.4	X	184.61396	97.61785	302.17254	11.30955	0.1643460	0.24374338	2.5381317	21	4 13.9	21.8
403062 2008 BB_{20}	16.4	X	154.53558	61.97352	294.20159	15.60277	0.0399504	0.22762344	2.6565912	21	1 16.1	19.8
403063 2008 BZ_{21}	16.9	X	2.34800	170.89619	347.90417	12.81628	0.1741874	0.22114544	2.7082207	21	1 10.9	20.1
403064 2008 BZ_{33}	16.4	X	169.24003	32.98693	325.99822	10.55208	0.0899011	0.22401885	2.6850127	21	2 11.7	20.4
403065 2008 BN_{34}	16.7	X	160.64912	115.62582	334.07028	12.62112	0.0981174	0.24182646	2.5515270	21	5 23.8	20.8
403066 2008 BD_{40}	17.5	X	16.91904	65.57131	136.85029	27.86174	0.0486466	0.38186402	1.8816127	21	3 22.1	19.5
403067 2008 BF_{42}	16.3	X	16.66444	52.28274	97.11567	8.93415	0.1696504	0.22517412	2.6758210	21	1 21.2	19.0
403068 2008 BL_{42}	16.6	X	53.36122	64.57108	75.79001	8.85028	0.1495978	0.23198025	2.6232240	21	3 24.7	19.5
403069 2008 BU_{42}	16.5	X	334.91317	7.08607	141.75964	9.52790	0.1363792	0.21540373	2.7561355	21	—	—
403070 2008 BW_{42}	16.4	X	156.70142	79.99767	316.34479	21.59249	0.0637467	0.23216579	2.6218262	21	3 3.7	20.4
403071 2008 BV_{47}	16.8	X	290.56041	110.72532	152.57943	14.69981	0.0849136	0.22617559	2.6679165	21	2 23.6	20.5
403072 2008 BV_{51}	16.7	X	289.25744	300.78121	330.03406	13.31964	0.0613787	0.23442946	2.6049212	21	3 3.2	20.3
403073 2008 BV_{53}	17.1	X	231.13743	327.32166	331.57862	3.94824	0.0453220	0.22342273	2.6897865	21	2 4.1	21.0
403074 2008 CZ_{2}	16.9	X	266.76051	90.43725	126.51703	5.84701	0.1045306	0.21058927	2.7979840	21	—	—
403075 2008 CD_{3}	16.4	X	357.54799	12.56119	154.27537	25.82508	0.0800481	0.22059997	2.7126832	21	1 21.6	20.1
403076 2008 CV_{12}	17.9	X	228.94547	337.31351	333.95374	18.88629	0.0675897	0.37384300	1.9084314	21	1 25.6	20.3
403077 2008 CW_{12}	16.8	X	161.48314	23.90574	38.42869	4.10029	0.2053393	0.24073817	2.5592109	21	4 29.0	20.9
403078 2008 CP_{13}	17.0	X	168.03993	81.17549	337.91773	15.94789	0.0866402	0.23865224	2.5741017	21	4 16.8	21.1
403079 2008 CF_{18}	17.6	X	68.07970	150.42158	318.30190	18.88725	0.0980930	0.37615749	1.9005950	21	1 17.2	18.8
403080 2008 CJ_{19}	16.9	X	333.64847	64.04594	103.53150	11.10913	0.1485105	0.22030788	2.7150804	21	—	—
403081 2008 CU_{19}	16.8	X	293.87008	238.56361	323.20257	11.74555	0.0581474	0.21872054	2.7282008	21	—	—
403082 2008 CV_{20}	16.7	X	164.08462	324.75530	114.57968	12.38126	0.2046155	0.24473468	2.5312733	21	5 25.6	21.1
403083 2008 CA_{23}	17.3	X	37.45104	71.21965	29.40656	2.25857	0.0311210	0.22141801	2.7059977	21	—	—
403084 2008 CK_{34}	17.4	X	356.93444	68.64706	82.17914	0.82182	0.0159095	0.22071223	2.7117633	21	1 7.5	20.8
403085 2008 CK_{37}	17.2	X	25.24621	317.58808	160.95463	9.27785	0.1066914	0.22017472	2.7161750	21	—	—
403086 2008 CW_{43}	16.5	X	151.14725	229.17088	139.20401	12.37038	0.0574207	0.22068376	2.7119966	21	1 30.6	20.3
403087 2008 CB_{44}	17.0	X	177.55591	315.46673	30.15256	6.85636	0.0718220	0.22097814	2.7095875	21	2 5.7	21.0
403088 2008 CC_{46}	16.5	X	284.25114	199.94816	334.50520	14.26731	0.0916300	0.20719513	2.8284577	21	—	—
403089 2008 CB_{61}	16.7	X	247.24762	137.94558	103.86802	3.95767	0.0491975	0.21393493	2.7687362	21	—	—
403090 2008 CX_{67}	16.7	X	251.72983	140.91989	103.32278	4.99977	0.0476819	0.21486143	2.7607712	21	—	—
403091 2008 CX_{72}	16.5	X	64.47545	314.23672	137.31432	22.42666	0.0400315	0.22513786	2.6761083	21	1 21.0	20.0
403092 2008 CA_{73}	17.7	X	233.00837	44.05532	315.97859	19.75751	0.1078600	0.38716105	1.8644108	21	3 22.0	20.5
403093 2008 CO_{84}	16.3	X	138.21801	122.07535	320.32069	21.12063	0.0433795	0.23667610	2.5884103	21	4 2.9	20.4
403094 2008 CY_{87}	17.1	X	121.81253	337.06632	105.98694	4.70773	0.1559083	0.23425531	2.6062121	21	4 14.1	20.8
403095 2008 CJ_{95}	16.8	X	101.99023	358.59074	86.78324	5.62912	0.2716860	0.23275110	2.6174289	21	4 10.4	20.4
403096 2008 CQ_{107}	17.2	X	91.81790	313.97622	126.87765	4.00127	0.1047376	0.22779379	2.6552666	21	2 23.2	20.5
403097 2008 CN_{119}	16.9	X	261.57345	81.87555	141.20284	5.34206	0.1509267	0.21375113	2.7703232	21	—	—
403098 2008 CW_{122}	16.8	X	208.15988	241.86155	149.85900	14.37783	0.2866491	0.24680746	2.5170810	21	5 3.3	21.6
403099 2008 CQ_{126}	17.1	X	241.52799	331.46582	298.77936	2.22521	0.0293358	0.22099555	2.7094451	21	1 12.5	20.9
403100 2008 CP_{137}	17.0	X	163.18607	61.63155	143.43169	10.82241	0.1330043	0.18915237	3.0055793	21	10 25.2	22.0
403101 2008 CK_{138}	16.9	X	269.83595	59.40646	146.23593	8.41220	0.1612515	0.21000258	2.8031927	21	—	—
403102 2008 CU_{148}	17.6	X	222.74234	223.01760	198.89357	3.00266	0.1802753	0.25410706	2.4686426	21	6 21.6	21.5
403103 2008 CS_{151}	17.2	X	202.68386	217.98842	176.35324	10.88483	0.0568465	0.23861206	2.5743907	21	5 3.8	21.0
403104 2008 CR_{152}	16.3	X	126.28835	265.85097	165.16922	22.08355	0.0552350	0.23015922	2.6370425	21	3 20.9	19.9
403105 2008 CJ_{158}	16.8	X	75.96531	28.03763	16.67393	6.30045	0.0265570	0.21299377	2.7768864	21	—	—
403106 2008 CO_{159}	17.6	X	146.57859	52.32547	23.98648	5.23013	0.1993595	0.24165944	2.5527025	21	5 1.9	21.7
403107 2008 CC_{160}	17.3	X	173.36180	240.35403	176.39268	9.00470	0.3215819	0.24225482	2.5485183	21	5 7.7	22.1
403108 2008 CJ_{160}	17.0	X	59.36408	117.13207	319.44149	7.59556	0.0906368	0.21717446	2.7411337	21	—	—
403109 2008 CH_{181}	16.6	X	124.01483	73.51357	355.42298	12.08263	0.1975578	0.23722475	2.5844177	21	3 29.7	20.3
403110 2008 CU_{185}	16.8	X	68.84931	20.68745	88.85565	14.07588	0.2400695	0.23041865	2.6350628	21	3 26.2	19.9
403111 2008 CV_{187}	16.2	X	135.00012	77.47340	120.02377	19.08666	0.1874055	0.18179685	3.0861129	21	9 24.9	21.6
403112 2008 CG_{189}	16.3	X	116.14521	181.41327	282.05278	12.12245	0.0677349	0.23865049	2.5741143	21	4 13.0	20.1
403113 2008 CK_{195}	16.5	X	277.70610	67.93821	172.43429	7.11471	0.0296929	0.21618055	2.7495290	21	1 18.1	20.4
403114 2008 CV_{201}	16.7	X	329.40557	133.40986	13.93940	9.95997	0.0545226	0.20998236	2.8033727	21	—	—
403115 2008 CM_{209}	16.6	X	109.78659	337.20401	121.14048	12.54239	0.1498725	0.23519065	2.5992976	21	4 22.4	20.4
403116 2008 DO_{2}	16.6	X	302.11251	48.79813	145.18682	14.04614	0.0972993	0.21856930	2.7294592	21	—	—
403117 2008 DT_{7}	16.8	X	70.43941	333.24971	132.81689	12.69471	0.1197872	0.23068424	2.6330399	21	2 27.4	19.8
403118 2008 DB_{12}	17.2	X	155.49790	317.08345	111.33000	4.35351	0.1200075	0.24041398	2.5615111	21	4 27.3	21.0
403119 2008 DV_{14}	16.4	X	180.29646	48.00146	355.88111	13.93426	0.0279168	0.23235334	2.6204152	21	4 12.2	20.2
403120 2008 DC_{16}	16.6	X	83.26249	101.35833	356.07692	10.89662	0.0421345	0.22797384	2.6538683	21	2 25.8	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403121 2008 DX_{16}	16.4	X	34.06491	51.62757	67.70563	8.24632	0.2837851	0.22438488	2.6820919	21	1 10.1	18.2
403122 2008 DJ_{38}	16.7	X	103.32722	108.79109	4.13389	13.99398	0.0534058	0.22919126	2.6444621	21	4 10.4	20.2
403123 2008 DA_{53}	16.9	X	62.46353	122.60044	334.18950	5.79100	0.2164233	0.22315292	2.6919542	21	2 13.0	19.5
403124 2008 DV_{56}	16.5	X	331.80888	69.14938	84.39285	13.55075	0.1462064	0.21351561	2.7723600	21	—	—
403125 2008 DZ_{64}	17.3	X	137.98293	339.84444	30.19381	6.45186	0.0215558	0.21914247	2.7246979	21	1 14.1	21.1
403126 2008 DO_{76}	17.1	X	214.61976	274.40902	352.70678	4.48501	0.1405847	0.20991185	2.8040004	21	—	—
403127 2008 DK_{84}	16.6	X	324.52567	169.78895	357.32300	11.17725	0.0252160	0.21370149	2.7707522	21	—	—
403128 2008 DD_{87}	16.9	X	222.96864	221.78414	348.32903	2.45418	0.0982821	0.19883279	2.9072165	21	12 29.7	21.1
403129 2008 EC_{9}	18.4	X	134.88489	91.43560	336.77907	20.10198	0.1000024	0.37948464	1.8894696	21	3 7.2	20.0
403130 2008 EK_{9}	17.9	X	211.07769	62.61232	339.31501	18.50980	0.1360713	0.38876305	1.8592854	21	4 29.2	20.8
403131 2008 EY_{18}	16.6	X	277.04359	201.99117	328.05339	4.84671	0.2141193	0.20589811	2.8403235	21	—	—
403132 2008 EU_{20}	16.5	X	214.89992	327.53173	353.75605	13.34186	0.0742177	0.21883989	2.7272088	21	2 17.1	20.6
403133 2008 EC_{39}	17.1	X	273.05627	158.98370	41.10432	5.52409	0.0542284	0.20923919	2.8100067	21	—	—
403134 2008 ED_{47}	16.8	X	135.77241	296.30751	120.40300	4.95105	0.0975996	0.22275530	2.6951567	21	3 21.2	20.6
403135 2008 EX_{69}	17.0	X	51.29073	342.18738	118.21335	4.95491	0.1560502	0.21818662	2.7326498	21	1 21.9	19.8
403136 2008 EL_{74}	16.6	X	238.84430	158.10623	103.96286	5.08009	0.0480797	0.21217623	2.7840149	21	—	—
403137 2008 EX_{74}	15.9	X	55.17689	81.05415	172.26216	16.69741	0.0562453	0.17276621	3.1927397	21	8 11.9	20.5
403138 2008 EZ_{74}	17.0	X	316.48145	139.49358	40.09506	4.02148	0.0427518	0.21283831	2.7782384	21	—	—
403139 2008 EH_{96}	16.3	X	258.03082	130.29631	52.82961	8.54489	0.0240972	0.20092468	2.8870027	21	—	—
403140 2008 EV_{103}	17.3	X	2.31965	129.58098	355.49773	4.28892	0.0706170	0.21501543	2.7594528	21	—	—
403141 2008 EG_{124}	16.9	X	150.02627	32.15136	192.60130	8.76542	0.1252653	0.18676677	3.0311190	21	11 2.4	21.7
403142 2008 EN_{135}	17.1	X	41.83585	71.40030	49.71603	4.67239	0.0383806	0.21829746	2.7317247	21	1 31.0	20.6
403143 2008 EU_{141}	16.8	X	333.49924	213.52819	315.96948	7.83304	0.1136578	0.21622256	2.7491729	21	—	—
403144 2008 ED_{162}	13.9	X	277.56143	231.84476	101.99759	7.14214	0.0816017	0.08467773	5.1359793	21	5 20.6	20.7
403145 2008 ES_{162}	17.0	X	138.96081	317.48053	1.98833	1.76493	0.0626297	0.20273780	2.8697643	21	—	—
403146 2008 FD	16.0	X	351.36364	23.63512	120.69804	27.75223	0.2117245	0.21631425	2.7483959	21	—	—
403147 2008 FS_{9}	16.9	X	219.08497	264.81027	6.72378	3.33657	0.1754395	0.21132216	2.7915111	21	—	—
403148 2008 FV_{20}	17.5	X	293.61680	101.42163	95.77118	5.93100	0.0960076	0.20922348	2.8101474	21	—	—
403149 2008 FZ_{27}	16.6	X	157.44704	52.72231	168.12730	8.85650	0.2468183	0.18234606	3.0799130	21	11 5.2	22.1
403150 2008 FP_{37}	17.0	X	178.65861	312.41405	88.05560	4.14531	0.1202888	0.22869418	2.6482927	21	4 16.6	21.0
403151 2008 FF_{45}	16.3	X	156.76014	66.64200	167.45934	8.77334	0.0747854	0.19191233	2.9766936	21	11 21.1	21.0
403152 2008 FQ_{72}	16.5	X	137.66735	329.44439	43.64797	12.54171	0.1306815	0.21305169	2.7763831	21	2 5.4	20.8
403153 2008 FU_{89}	16.6	X	304.73659	220.95242	344.96134	7.13616	0.2132497	0.21918653	2.7243327	21	—	—
403154 2008 FG_{94}	16.0	X	140.30451	218.54812	46.81994	14.16166	0.1858261	0.18620584	3.0372032	21	12 8.7	21.2
403155 2008 FK_{97}	17.0	X	56.88027	60.32554	22.99276	4.65455	0.0382833	0.21429938	2.7655962	21	1 3.3	20.6
403156 2008 FR_{101}	16.4	X	177.93823	145.38512	73.78709	6.78711	0.2835928	0.18717868	3.0266703	21	11 15.9	21.8
403157 2008 FT_{102}	16.2	X	88.83210	250.04982	77.41989	10.43787	0.1423418	0.18693423	3.0293085	21	—	—
403158 2008 FL_{113}	17.0	X	133.04701	240.89204	82.74088	3.59902	0.0450453	0.20014511	2.8944945	21	—	—
403159 2008 FY_{116}	16.3	X	131.76570	253.76563	37.04783	5.30185	0.1721690	0.18872908	3.0100717	21	—	—
403160 2008 FU_{122}	17.2	X	196.62266	221.18249	35.65604	7.49941	0.0479539	0.20126905	2.8837087	21	—	—
403161 2008 FQ_{125}	17.0	X	145.78533	154.57994	161.15887	7.96398	0.0589111	0.20288327	2.8683924	21	—	—
403162 2008 FK_{129}	16.7	X	196.20167	155.41033	115.24573	6.94694	0.0257914	0.20060352	2.8900832	21	—	—
403163 2008 FO_{135}	16.5	X	314.09570	97.07624	80.33163	6.02366	0.0999011	0.21039459	2.7997097	21	—	—
403164 2008 FH_{136}	17.4	X	137.55548	45.09578	7.56061	2.55340	0.0688381	0.22663226	2.6643313	21	3 12.3	21.1
403165 2008 GQ_{58}	17.0	X	134.68645	157.45263	154.68724	2.35104	0.0611042	0.19879757	2.9075599	21	—	—
403166 2008 GF_{91}	16.5	X	109.01099	336.64231	54.25527	5.67552	0.0650972	0.20980409	2.8049605	21	1 11.5	20.3
403167 2008 GX_{99}	16.1	X	267.29627	93.34053	53.04789	11.04546	0.0597766	0.19207966	2.9749646	21	12 8.9	20.2
403168 2008 GO_{102}	16.1	X	149.49855	189.84645	51.97146	10.80945	0.2490602	0.18348175	3.0671909	21	11 20.7	21.6
403169 2008 GU_{103}	16.0	X	17.66304	263.81916	68.33972	10.69438	0.0921023	0.17689303	3.1428880	21	10 11.4	20.2
403170 2008 GP_{123}	16.5	X	266.70059	310.48887	59.99497	6.18633	0.2006953	0.24203988	2.5500269	21	5 28.5	20.1
403171 2008 GG_{126}	16.9	X	313.40331	272.42697	233.12519	4.95650	0.0206839	0.20174634	2.8791587	21	—	—
403172 2008 GO_{129}	16.5	X	200.99996	263.84353	71.33855	5.87172	0.1635722	0.20960543	2.8067325	21	2 20.9	21.2
403173 2008 GK_{139}	16.8	X	77.41891	39.18746	19.10213	6.64774	0.0320692	0.21080408	2.7960829	21	—	—
403174 2008 GT_{144}	16.3	X	162.72724	162.78687	101.64487	8.31534	0.0800904	0.19268485	2.9687320	21	12 30.9	20.9
403175 2008 GF_{146}	15.7	X	138.21681	172.37144	106.68398	10.68821	0.2216642	0.18537088	3.0463166	21	12 24.8	20.9
403176 2008 HR	16.4	X	140.55033	13.50402	204.17601	17.82297	0.0903749	0.18153228	3.0891107	21	10 12.8	21.2
403177 2008 HH_{4}	16.3	X	110.59757	238.81173	50.52915	11.62554	0.1238793	0.18507042	3.0496128	21	12 8.3	21.1
403178 2008 HE_{19}	16.8	X	227.18807	10.45371	235.26051	1.08139	0.0221161	0.20439385	2.8542422	21	—	—
403179 2008 HT_{20}	17.2	X	178.93816	207.89112	50.24718	1.81620	0.1703763	0.19319770	2.9634760	21	—	—
403180 2008 HW_{54}	16.8	X	223.03175	5.90804	186.40251	4.22742	0.1065639	0.18915952	3.0055036	21	12 6.0	21.2
403181 2008 HM_{58}	17.1	X	156.38237	332.26708	308.26109	1.18721	0.2925493	0.19119060	2.9841801	21	—	—
403182 2008 HY_{64}	16.0	X	87.64201	218.40492	101.36464	7.25125	0.2038487	0.18136896	3.0909649	21	12 29.1	21.0
403183 2008 JS_{7}	16.7	X	145.72041	201.96484	52.76412	1.25132	0.2657557	0.18302869	3.0722503	21	12 2.9	22.0
403184 2008 JP_{16}	16.1	X	82.64144	239.13777	103.49414	6.27723	0.1671227	0.18619829	3.0372853	21	—	—
403185 2008 JC_{22}	16.5	X	183.02383	162.17498	79.82823	9.19537	0.0923601	0.18989494	2.9977388	21	12 23.8	21.0
403186 2008 JG_{35}	16.2	X	108.89231	139.18324	154.98031	24.81972	0.2602093	0.17884678	3.1199571	21	12 22.9	22.0
403187 2008 JC_{36}	16.4	X	92.17102	244.65767	106.72950	4.29219	0.1415946	0.18886383	3.0086397	21	—	—
403188 2008 JV_{36}	16.4	X	176.32434	117.20752	160.16584	9.52747	0.0982086	0.19297542	2.9657513	21	—	—
403189 2008 KN_{22}	16.6	X	125.84255	138.86053	165.69095	5.94891	0.1921544	0.18592255	3.0402876	21	—	—
403190 2008 KO_{31}	16.4	X	64.43157	262.12914	100.47455	11.46383	0.0792160	0.18822178	3.0154778	21	—	—
403191 2008 KN_{33}	16.0	X	352.29908	222.27705	132.81462	9.52345	0.0440876	0.17179394	3.2047746	21	9 28.8	20.4
403192 2008 KM_{39}	16.6	X	95.22972	141.56139	177.33465	11.73701	0.1698133	0.18155027	3.0889067	21	12 31.4	21.7
403193 2008 KX_{40}	15.9	X	143.98956	165.13636	112.59511	13.04800	0.1394913	0.18540544	3.0459381	21	12 27.2	20.9
403194 2008 LF_{4}	16.5	X	108.70825	139.59084	171.78180	11.91238	0.2243449	0.18249334	3.0782557	21	—	—
403195 2008 LN_{12}	16.8	X	40.62599	196.18308	157.71450	5.99854	0.1416161	0.17202286	3.2019308	21	12 10.4	21.2
403196 2008 PL_{9}	14.9	X	130.10214	60.59246	131.23456	15.96745	0.0649373	0.15409837	3.4456462	21	8 30.4	20.1
403197 2008 QS_{21}	15.7	X	79.67648	210.90399	188.17095	13.88055	0.3232176	0.17811264	3.1285245	21	1 23.4	19.7
403198 2008 RV_{24}	16.8	X	68.48952	279.51775	359.18393	30.71227	0.2985452	0.31278135	2.1493583	21	11 3.3	20.7
403199 2008 RC_{56}	15.2	X	54.82559	313.96894	327.74212	15.28698	0.1240562	0.15435292	3.4418569	21	9 20.6	20.1
403200 2008 SL_{59}	15.6	X	172.29972	22.33005	79.06736	3.92166	0.1846380	0.12565451	3.9477593	21	6 27.0	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403201 2008 SY_{68}	16.6	X	79.09206	349.80812	352.55313	4.55121	0.1382427	0.17076006	3.2176972	21	—	—
403202 2008 SS_{91}	15.9	X	58.07606	198.51665	196.87169	15.52109	0.1845705	0.17046164	3.2214516	21	—	—
403203 2008 SP_{197}	18.5	X	356.63307	214.79919	169.53865	3.44234	0.1685885	0.30797889	2.1716446	21	12 21.9	20.5
403204 2008 ST_{200}	18.2	X	152.26093	148.72653	6.69785	5.15756	0.0647913	0.29013338	2.2598048	21	8 16.0	21.1
403205 2008 SC_{256}	18.5	X	336.51237	348.28417	69.97220	0.80792	0.1177551	0.31156243	2.1549605	21	12 30.3	20.3
403206 2008 TA_{8}	18.2	X	109.16497	234.15862	37.66357	5.08457	0.1895698	0.31550255	2.1369817	21	12 8.6	21.5
403207 2008 TT_{19}	17.4	X	14.73577	0.73468	215.52908	4.78099	0.1549241	0.27361058	2.3498896	21	4 16.3	19.0
403208 2008 TQ_{32}	18.5	X	351.68947	157.17186	151.07711	2.26994	0.1915820	0.29598836	2.2299047	21	7 29.8	19.6
403209 2008 TW_{52}	17.4	X	346.56522	181.70760	27.75057	6.54786	0.0426387	0.27064431	2.3670283	21	3 1.1	20.2
403210 2008 TS_{73}	18.6	X	356.73784	34.74733	8.73675	2.61840	0.1045622	0.31101213	2.1575018	21	—	—
403211 2008 TP_{97}	18.8	X	312.86033	71.13229	339.23172	6.58478	0.0954975	0.30572021	2.1823276	21	10 26.7	20.8
403212 2008 TQ_{112}	17.6	X	15.72568	36.89899	336.80541	5.24304	0.1541955	0.31160159	2.1547800	21	—	—
403213 2008 TU_{161}	18.3	X	317.34641	336.38937	82.34747	1.94461	0.1316181	0.30615756	2.1802488	21	11 21.3	20.0
403214 2008 TX_{171}	18.3	X	271.73988	111.17350	252.74918	3.99358	0.1609113	0.28716419	2.2753552	21	5 29.0	21.1
403215 2008 TE_{183}	18.5	X	68.80003	2.93535	320.79506	3.16426	0.1820997	0.31549096	2.1370340	21	—	—
403216 2008 US_{11}	18.2	X	123.10416	273.30592	318.24394	4.59772	0.0835120	0.30537132	2.1839895	21	10 23.7	21.1
403217 2008 UX_{71}	18.1	X	333.38768	33.68117	349.03391	5.23817	0.1523696	0.30075608	2.2062756	21	10 24.1	19.6
403218 2008 UQ_{81}	18.4	X	235.92846	33.44073	77.19011	3.67207	0.1294986	0.29852759	2.2172418	21	9 20.3	21.2
403219 2008 US_{105}	18.3	X	333.00513	283.71354	121.67702	2.39658	0.1318223	0.30646456	2.1787925	21	12 3.2	19.8
403220 2008 UN_{125}	17.9	X	271.46861	161.19977	264.83751	7.38043	0.1000625	0.29372396	2.2413506	21	9 3.6	20.5
403221 2008 UN_{145}	19.0	X	339.02475	330.53435	62.36340	3.90123	0.1399396	0.30435374	2.1888548	21	11 25.2	20.5
403222 2008 US_{151}	18.3	X	311.55878	185.21392	236.96476	1.23015	0.0582436	0.30286562	2.1960189	21	11 15.7	20.3
403223 2008 US_{204}	18.0	X	347.65318	46.61370	334.88588	4.44398	0.1844741	0.30652213	2.1785197	21	11 30.4	19.6
403224 2008 UJ_{211}	18.7	X	36.13891	324.59428	25.32854	2.69456	0.0955419	0.30966552	2.1637520	21	12 21.4	21.2
403225 2008 UT_{221}	18.3	X	252.75446	82.06249	3.82955	5.02651	0.1037974	0.29433539	2.2382455	21	9 9.9	20.9
403226 2008 UP_{224}	18.4	X	250.75968	143.87200	302.86280	4.88624	0.1198900	0.29308747	2.2445944	21	9 2.7	21.3
403227 2008 UH_{229}	17.9	X	70.17321	244.22039	98.09552	2.62193	0.2370930	0.31619286	2.1338703	21	—	—
403228 2008 UP_{239}	17.7	X	259.34928	165.10610	285.36065	5.84593	0.1582877	0.29596666	2.2300136	21	9 12.7	20.5
403229 2008 UH_{275}	18.1	X	286.02891	198.84710	231.56840	5.90962	0.1397715	0.29854439	2.2171587	21	10 1.2	20.3
403230 2008 UO_{283}	18.0	X	188.49374	279.86344	124.16200	1.84395	0.1673081	0.27477983	2.3432186	21	4 27.5	21.5
403231 2008 UU_{286}	17.9	X	273.36299	8.85872	94.07259	3.71910	0.1378488	0.30302892	2.1952299	21	11 3.1	19.8
403232 2008 UC_{328}	18.3	X	292.75935	143.83629	315.41903	4.21585	0.0451344	0.31123924	2.1564521	21	12 12.2	20.4
403233 2008 UM_{338}	18.0	X	55.89687	28.54619	271.68543	4.06186	0.1702088	0.30206859	2.1998801	21	11 17.6	20.8
403234 2008 UX_{343}	17.5	X	325.55654	29.45169	258.20600	8.68520	0.1419849	0.27972438	2.3155234	21	4 28.9	20.0
403235 2008 UL_{351}	17.9	X	107.44036	184.78899	40.60890	4.04331	0.0975001	0.29707742	2.2244515	21	9 30.6	20.8
403236 2008 UU_{353}	17.9	X	188.28118	73.56916	72.34532	5.29979	0.0974048	0.29028849	2.2589997	21	9 15.5	21.0
403237 2008 VE_{11}	15.2	X	202.84161	357.27459	77.58944	11.12034	0.2917774	0.12415655	3.9794491	21	6 17.9	21.9
403238 2008 VD_{16}	17.9	X	141.83573	118.01535	51.34777	6.39839	0.0930091	0.28932620	2.2640058	21	8 25.8	21.1
403239 2008 VK_{67}	18.1	X	137.99355	36.54281	106.73223	6.81357	0.0500734	0.27959264	2.3162507	21	7 7.9	20.9
403240 2008 VH_{70}	15.2	X	235.73441	327.70724	71.71296	4.60443	0.1397553	0.12626008	3.9351264	21	6 11.7	21.2
403241 2008 VK_{80}	17.6	X	106.29264	47.85741	89.50377	10.34093	0.1487573	0.26116039	2.4239920	21	6 2.8	20.9
403242 2008 WD_{31}	17.9	X	35.44303	258.71264	49.23605	4.36153	0.2634065	0.29948350	2.2125212	21	11 16.3	20.3
403243 2008 WY_{31}	17.9	X	190.69368	209.55986	296.78104	2.15817	0.0867025	0.28947780	2.2632153	21	9 15.3	20.9
403244 2008 WE_{34}	17.7	X	346.79396	35.17279	217.43172	2.43807	0.1444452	0.27798457	2.3251747	21	4 15.8	20.0
403245 2008 WP_{136}	17.6	X	306.81351	16.00271	37.19622	5.82284	0.1291649	0.29809159	2.2194034	21	10 19.4	19.4
403246 2008 XT	17.6	X	295.05109	25.15291	30.81569	6.80462	0.1722103	0.29738674	2.2229088	21	9 25.1	19.4
403247 2008 XO_{2}	19.2	X	111.86934	197.05781	39.06535	9.47307	0.3172499	0.45016851	1.6861103	21	11 12.8	21.6
403248 2008 XU_{12}	18.3	X	307.66514	294.16203	143.25227	5.76974	0.1199855	0.30345943	2.1931531	21	12 1.8	20.2
403249 2008 XO_{51}	17.8	X	142.46643	231.07977	291.35197	4.59710	0.0747091	0.28359916	2.2943839	21	8 10.9	20.9
403250 2008 YC	17.5	X	241.13111	348.55152	107.04533	6.29383	0.0529418	0.28942466	2.2634923	21	9 17.7	20.2
403251 2008 YC_{10}	17.1	X	141.90131	30.57558	93.92844	6.91017	0.0596256	0.27049245	2.3679142	21	6 17.4	20.1
403252 2008 YR_{10}	17.5	X	152.85916	57.80458	80.60615	6.17681	0.0730196	0.28061915	2.3105986	21	7 22.7	20.7
403253 2008 YF_{16}	17.7	X	254.84677	347.37100	106.87924	8.84389	0.1479450	0.28977464	2.2616695	21	9 21.2	20.5
403254 2008 YL_{18}	17.8	X	34.09927	107.87432	108.30809	3.99254	0.1602703	0.26196433	2.4190301	21	6 2.3	19.9
403255 2008 YP_{44}	17.7	X	91.05729	243.47748	317.91928	5.45406	0.0262727	0.27605300	2.3360084	21	7 24.1	20.6
403256 2008 YH_{47}	16.9	X	98.75224	61.36970	95.11945	7.46772	0.0679394	0.26731408	2.3866468	21	6 6.6	19.7
403257 2008 YL_{65}	18.5	X	296.09652	177.56963	227.91863	2.06485	0.1879482	0.29014670	2.2597356	21	9 2.2	20.6
403258 2008 YH_{78}	18.3	X	271.99321	246.97426	163.08213	3.62666	0.1575276	0.28431866	2.2905115	21	8 4.6	20.8
403259 2008 YR_{79}	17.2	X	246.00522	327.50363	137.71959	7.53438	0.0562697	0.28705397	2.2759376	21	10 7.6	19.9
403260 2008 YE_{80}	17.5	X	48.74849	72.85557	140.79214	4.93872	0.0922821	0.26442561	2.4039958	21	6 17.1	20.1
403261 2008 YE_{105}	17.5	X	335.99691	34.78421	290.27541	6.58111	0.1395540	0.27862874	2.3215896	21	7 22.1	19.5
403262 2008 YF_{126}	18.0	X	242.83450	11.66443	83.86706	2.46869	0.0863196	0.28641815	2.2793046	21	9 12.5	20.9
403263 2008 YC_{137}	17.8	X	72.46902	87.99455	93.10290	6.75897	0.0847499	0.26709208	2.3879691	21	6 6.1	20.4
403264 2008 YD_{137}	17.1	X	181.57386	86.16148	70.43712	2.82422	0.0798741	0.28560456	2.2836311	21	9 21.4	20.2
403265 2008 YQ_{144}	18.0	X	350.18898	123.93454	239.51076	3.40555	0.1302749	0.29147193	2.2528808	21	10 26.7	19.8
403266 2008 YE_{145}	17.9	X	208.18549	321.15707	137.68083	6.52429	0.0428585	0.27774726	2.3264989	21	8 5.2	20.7
403267 2008 YW_{150}	17.6	X	321.07738	255.46713	114.91786	7.56483	0.1318632	0.28799883	2.2709570	21	9 9.6	19.6
403268 2008 YZ_{150}	18.0	X	162.66062	9.58111	154.22054	2.32455	0.1343151	0.28136126	2.3065339	21	9 7.2	21.4
403269 2008 YB_{154}	17.2	X	2.91431	305.52217	322.41318	7.99628	0.0930874	0.26736085	2.3863685	21	6 16.9	19.7
403270 2008 YR_{165}	18.0	X	80.68260	197.05311	321.72522	1.33574	0.1330290	0.26232442	2.4168159	21	5 24.6	20.9
403271 2009 AM_{2}	17.5	X	115.10420	200.25078	302.38741	7.29743	0.1532338	0.26630020	2.3927008	21	6 20.6	20.9
403272 2009 AJ_{10}	18.2	X	256.06711	222.72943	200.55917	1.59201	0.1559603	0.28525385	2.2855025	21	8 2.2	21.2
403273 2009 AT_{14}	17.5	X	118.59019	62.89887	110.14864	2.92124	0.1329597	0.27127693	2.3633469	21	8 3.3	20.9
403274 2009 AY_{22}	17.4	X	72.81763	276.34539	310.59595	6.39884	0.0793174	0.27567908	2.3381202	21	8 11.6	20.2
403275 2009 AO_{39}	18.1	X	245.74304	324.68745	135.05885	4.81232	0.1170089	0.28760682	2.2730200	21	9 18.1	20.8
403276 2009 AB_{41}	17.3	X	144.06582	198.77736	300.37897	6.31615	0.0719524	0.27232468	2.3572811	21	7 12.1	20.5
403277 2009 AD_{46}	16.8	X	353.05085	10.38602	285.47507	4.24857	0.1485819	0.27020437	2.3695969	21	7 10.9	18.7
403278 2009 AV_{46}	17.8	X	338.13336	185.40770	104.48218	4.84608	0.0733900	0.26931030	2.3748385	21	6 7.2	20.2
403279 2009 BJ_{20}	17.3	X	56.48625	201.10156	325.96281	1.79353	0.1458507	0.25774225	2.4453759	21	4 27.9	19.6
403280 2009 BD_{22}	17.8	X	299.22547	275.93057	101.89629	7.34372	0.2067815	0.28266311	2.2994464	21	7 23.2	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403281 2009 BJ_{23}	17.7	X	86.00616	175.53326	351.80732	6.01015	0.2065143	0.26124827	2.4234483	21	6 26.7	20.9
403282 2009 BF_{27}	17.5	X	13.67820	15.33645	325.95272	8.50051	0.1566756	0.29072816	2.2567216	21	11 6.4	19.9
403283 2009 BA_{36}	17.2	X	307.76035	261.07566	112.42503	8.39006	0.0812507	0.28062545	2.3105641	21	8 23.8	19.7
403284 2009 BH_{44}	18.0	X	279.04128	127.91678	314.29612	3.79610	0.1610872	0.28940014	2.2636202	21	10 2.0	20.4
403285 2009 BC_{51}	17.9	X	157.02551	201.89240	320.32829	5.45223	0.1003599	0.27782907	2.3260422	21	8 28.5	21.2
403286 2009 BL_{56}	17.5	X	276.15389	324.16614	140.51071	4.13134	0.1165640	0.29151513	2.2526583	21	11 11.6	19.8
403287 2009 BD_{62}	17.6	X	202.12339	109.83059	329.86089	6.80733	0.1570550	0.27073198	2.3665173	21	6 26.4	21.3
403288 2009 BC_{64}	17.7	X	259.10231	120.57873	334.66621	7.64920	0.0817962	0.28992422	2.2608915	21	10 1.9	20.5
403289 2009 BU_{72}	18.0	X	184.62011	333.52124	123.50886	3.32527	0.1999639	0.27179976	2.3603152	21	7 1.4	21.9
403290 2009 BO_{75}	16.9	X	50.19023	74.61653	93.35763	7.01838	0.0739161	0.25711270	2.4493661	21	4 14.5	19.7
403291 2009 BX_{86}	18.6	X	285.89954	85.25856	2.61054	0.99922	0.1913135	0.29391011	2.2404042	21	10 21.3	20.5
403292 2009 BW_{96}	17.2	X	191.00064	196.11794	334.77088	6.36044	0.0264583	0.28957351	2.2627166	21	10 23.1	20.0
403293 2009 BQ_{104}	18.2	X	217.84950	285.15009	147.68614	1.78588	0.1519955	0.27382988	2.3486348	21	7 2.9	21.8
403294 2009 BD_{107}	17.1	X	66.35435	77.92492	96.61325	3.51103	0.1546163	0.25749589	2.4469355	21	5 29.7	19.7
403295 2009 BX_{108}	17.8	X	185.70304	345.47429	108.05482	3.10264	0.1854649	0.26975635	2.3722198	21	6 27.9	21.5
403296 2009 BC_{109}	17.6	X	339.34813	241.13045	310.60268	3.52322	0.2193072	0.24277077	2.5449062	21	1 2.2	20.7
403297 2009 BF_{116}	16.9	X	297.16385	68.08011	119.87274	7.13359	0.0536946	0.23695775	2.5863588	21	—	—
403298 2009 BJ_{144}	18.2	X	214.07076	357.43641	131.26413	4.54290	0.1549066	0.28362544	2.2942422	21	9 14.1	21.4
403299 2009 BR_{158}	17.4	X	72.50198	231.97513	320.29837	3.77702	0.1702868	0.26055562	2.4277414	21	7 7.4	20.2
403300 2009 BH_{162}	17.7	X	23.91470	36.17601	76.43381	2.76877	0.0256014	0.23758984	2.5817695	21	—	—
403301 2009 BL_{164}	18.1	X	204.25868	117.48323	342.08916	6.34558	0.0360171	0.27484946	2.3428229	21	8 3.3	21.2
403302 2009 BT_{173}	17.0	X	211.20559	54.18291	359.22796	11.94898	0.1011510	0.25976211	2.4326829	21	5 31.0	20.8
403303 2009 BA_{175}	18.0	X	287.14563	66.93398	324.37656	2.57969	0.2058895	0.27864023	2.3215257	21	7 23.2	20.6
403304 2009 BH_{182}	16.9	X	100.95650	193.97816	322.69676	12.20600	0.1089263	0.26498390	2.4006180	21	6 16.2	20.2
403305 2009 BZ_{184}	17.0	X	187.90146	19.73047	210.50347	6.05475	0.0203197	0.29996431	2.2101563	21	—	—
403306 2009 BP_{190}	17.1	X	5.13757	173.03244	12.64713	7.17890	0.1497056	0.24655517	2.5187978	21	2 18.2	19.6
403307 2009 CR_{6}	17.8	X	200.49318	307.55859	136.24777	7.09485	0.0961006	0.27118641	2.3638728	21	7 1.9	21.2
403308 2009 CD_{18}	16.9	X	127.12889	237.66171	281.84907	5.81413	0.0388481	0.27014190	2.3699622	21	7 14.9	20.0
403309 2009 CE_{27}	17.1	X	342.45790	321.28314	352.55698	6.86102	0.1261236	0.26985339	2.3716511	21	7 20.8	19.3
403310 2009 CA_{29}	18.1	X	172.75352	88.99461	17.15625	1.71503	0.1404642	0.26943763	2.3740902	21	7 2.1	21.7
403311 2009 CC_{29}	17.5	X	304.37998	238.06374	336.99080	11.23764	0.2045963	0.23647394	2.5898853	21	—	—
403312 2009 CH_{29}	17.5	X	275.29279	113.04062	1.71427	3.02812	0.1773845	0.21475582	2.7616762	21	10 28.3	20.9
403313 2009 CS_{29}	18.3	X	266.37389	344.46668	67.01332	2.34135	0.1961737	0.28045297	2.3115113	21	7 24.7	21.3
403314 2009 CX_{32}	17.8	X	254.86336	13.68386	44.04061	2.05000	0.1703597	0.27732879	2.3288387	21	7 22.6	20.9
403315 2009 CG_{43}	16.8	X	233.63581	193.75180	347.16539	7.18780	0.0795823	0.29820534	2.2188389	21	12 31.6	19.5
403316 2009 CF_{45}	17.8	X	186.65309	277.93467	177.60706	2.14799	0.1737121	0.27201228	2.3590857	21	7 1.4	21.6
403317 2009 CW_{59}	17.4	X	10.88351	43.00722	124.84420	12.68001	0.2139404	0.24250345	2.5467761	21	1 24.8	19.7
403318 2009 CK_{62}	17.3	X	291.60850	345.89537	325.70718	6.18181	0.0975253	0.25731144	2.4481047	21	4 20.6	20.5
403319 2009 DU_{14}	17.6	X	261.27445	259.15939	334.46880	11.79234	0.2264749	0.22727443	2.6593102	21	—	—
403320 2009 DS_{15}	17.7	X	165.42955	6.35168	119.25515	2.53717	0.0319602	0.27088576	2.3656216	21	7 17.8	20.6
403321 2009 DW_{17}	17.7	X	210.88226	97.12183	326.83383	3.73659	0.1320411	0.26806101	2.3822113	21	6 14.8	21.4
403322 2009 DS_{19}	17.2	X	66.37044	104.05089	65.86173	10.50845	0.1746433	0.25493193	2.4633147	21	5 26.0	19.6
403323 2009 DZ_{20}	17.9	X	232.68612	264.31411	159.23540	2.81612	0.1372618	0.27702230	2.3305561	21	7 7.5	21.1
403324 2009 DX_{21}	17.7	X	6.46383	358.28958	318.85536	2.23145	0.1137369	0.27997326	2.3141509	21	9 11.6	19.9
403325 2009 DW_{22}	18.3	X	296.80085	349.16176	59.35185	3.73213	0.2000687	0.28924586	2.2644250	21	9 10.1	20.2
403326 2009 DU_{25}	18.1	X	289.14843	303.45644	112.97122	2.73022	0.1497307	0.28539089	2.2847708	21	9 15.3	20.2
403327 2009 DC_{33}	17.5	X	259.12357	283.75301	150.16974	4.37335	0.2153713	0.27897927	2.3196445	21	8 12.4	20.6
403328 2009 DK_{53}	16.6	X	6.62521	317.37914	12.27439	5.05537	0.1125098	0.19949137	2.9008146	21	9 21.1	20.0
403329 2009 DJ_{60}	17.5	X	137.44748	317.22670	137.79189	7.21853	0.0772168	0.25541305	2.4602203	21	5 7.3	20.9
403330 2009 DC_{70}	18.0	X	166.42479	156.75948	317.55228	1.55409	0.1634342	0.26909756	2.3760900	21	7 7.1	21.6
403331 2009 DP_{77}	17.5	X	154.15640	313.21635	161.44192	8.41654	0.1142275	0.26630678	2.3926614	21	6 22.9	21.2
403332 2009 DG_{85}	17.5	X	307.62392	242.59476	145.78425	6.81009	0.1192114	0.28091249	2.3089898	21	9 9.8	19.6
403333 2009 DX_{91}	17.3	X	191.72147	125.40486	139.41381	4.07900	0.1590078	0.21828286	2.7318465	21	—	—
403334 2009 DT_{93}	16.9	X	307.74234	170.32803	30.10834	6.47805	0.1980756	0.23168773	2.6254315	21	—	—
403335 2009 DE_{94}	17.8	X	146.46572	4.29471	120.92041	6.46347	0.0545544	0.26146954	2.4220809	21	6 23.9	21.1
403336 2009 DV_{112}	17.9	X	115.22876	358.66694	132.53063	2.76048	0.1471225	0.25995252	2.4314949	21	6 4.6	21.3
403337 2009 DB_{119}	17.7	X	39.45708	223.74618	329.72576	0.40062	0.1149892	0.25312701	2.4750106	21	5 3.6	20.2
403338 2009 DA_{124}	17.5	X	274.26031	270.47004	170.99225	6.57976	0.0832589	0.28284600	2.2984551	21	10 8.4	20.0
403339 2009 DF_{127}	17.0	X	215.51450	359.65783	340.35173	5.93141	0.0300490	0.24354709	2.5394953	21	3 6.1	20.5
403340 2009 DN_{131}	17.2	X	319.87672	182.61612	138.07693	1.73413	0.1945712	0.26357782	2.4091480	21	6 3.8	19.7
403341 2009 DH_{134}	17.3	X	344.20951	195.90242	7.65780	11.82978	0.1314629	0.24009797	2.5637582	21	2 13.5	20.5
403342 2009 DM_{137}	17.5	X	104.08735	314.03219	164.89365	5.10591	0.1196464	0.25155954	2.4852811	21	5 2.4	20.7
403343 2009 EZ_{12}	15.5	X	198.41512	224.28448	123.52996	14.74331	0.1904067	0.24303685	2.5430484	21	3 3.0	19.8
403344 2009 EM_{24}	17.8	X	279.07886	356.97845	343.62381	4.35093	0.0935980	0.25793276	2.4441717	21	5 16.1	20.9
403345 2009 EF_{25}	16.8	X	242.22863	167.98497	322.68722	1.18912	0.0364812	0.20453195	2.8529574	21	10 24.7	20.6
403346 2009 EY_{30}	17.2	X	245.06596	187.11178	150.89672	4.11273	0.0283202	0.24623656	2.5209701	21	4 11.1	20.5
403347 2009 FS_{3}	17.1	X	105.62521	206.06964	352.92412	6.53361	0.0626563	0.26800234	2.3825590	21	8 16.4	20.1
403348 2009 FB_{34}	18.1	X	225.61734	115.22400	328.56988	3.57364	0.2017289	0.27731605	2.3289100	21	7 22.4	21.7
403349 2009 FV_{55}	16.8	X	321.44497	242.07897	331.63324	29.35278	0.2999722	0.23503669	2.6004327	21	1 5.9	21.1
403350 2009 FY_{61}	17.1	X	7.21461	6.32294	161.34839	4.22864	0.1533528	0.23778004	2.5803926	21	1 25.5	19.9
403351 2009 FT_{68}	16.8	X	44.32694	98.95759	56.04842	15.72395	0.0898826	0.23974462	2.5662766	21	3 26.8	20.0
403352 2009 FJ_{71}	17.1	X	331.32967	303.40623	242.02872	3.40013	0.2168454	0.23211070	2.6222411	21	—	—
403353 2009 FH_{72}	17.3	X	211.61785	248.21931	36.25062	8.43749	0.3051313	0.21968727	2.7201914	21	—	—
403354 2009 FH_{74}	17.4	X	278.73711	190.72477	86.87770	0.97604	0.1038224	0.23539212	2.5978143	21	2 24.1	21.2
403355 2009 FY_{74}	16.8	X	290.48275	226.67931	348.64257	10.80685	0.3139773	0.22728559	2.6592231	21	—	—
403356 2009 FX_{75}	17.2	X	235.03648	241.30368	49.16465	4.09023	0.2432105	0.22653239	2.6651143	21	1 22.8	21.9
403357 2009 HP	16.1	X	292.89430	99.54518	111.20422	15.61096	0.2495066	0.22825408	2.6516957	21	—	—
403358 2009 HR_{3}	16.7	X	150.51976	122.55977	95.85845	7.58484	0.0370666	0.20014928	2.8944543	21	10 28.7	20.9
403359 2009 HQ_{4}	17.6	X	322.76989	61.63691	142.39322	4.51413	0.1571033	0.23460603	2.6036140	21	1 6.9	20.9
403360 2009 HS_{5}	16.9	X	228.08140	278.84245	44.57455	5.81901	0.0539595	0.23933055	2.5692358	21	3 2.9	20.6

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
403361	2009 HP_{6}	17.3	X	149.26377	23.15868	92.93956	7.60581	0.1474222	0.25792385	2.4442280	21	6 21.6	21.0
403362	2009 HE_{37}	16.5	X	313.03634	243.13387	348.99604	6.78351	0.1576310	0.23617217	2.5920910	21	2 1.1	20.0
403363	2009 HR_{42}	17.1	X	252.26135	124.88308	130.49885	5.01754	0.1305359	0.22489550	2.6780306	21	—	—
403364	2009 HB_{47}	17.7	X	304.54428	68.97433	159.54027	1.68945	0.0933081	0.23557996	2.5964332	21	1 24.3	21.3
403365	2009 HF_{49}	16.0	X	131.65278	56.11249	118.09263	15.86566	0.0438076	0.17937698	3.1138062	21	8 8.8	20.5
403366	2009 HJ_{53}	17.8	X	334.93595	148.88171	58.20990	3.15420	0.1088338	0.23710346	2.5852990	21	2 4.6	21.1
403367	2009 HN_{66}	17.1	X	321.99693	93.13176	100.69440	12.49873	0.2425197	0.22958538	2.6414348	21	—	—
403368	2009 HQ_{66}	18.0	X	293.69359	70.27655	150.91180	5.21444	0.1927992	0.23087030	2.6316250	21	—	—
403369	2009 HX_{74}	17.4	X	232.28464	258.83703	48.63417	3.98582	0.1254142	0.23141782	2.6274725	21	2 12.9	21.5
403370	2009 HG_{75}	16.5	X	281.77353	136.72613	88.92346	12.76519	0.1393016	0.22531784	2.6746831	21	—	—
403371	2009 HC_{79}	16.9	X	31.50783	102.09379	57.85104	4.83166	0.0389568	0.23620732	2.5918338	21	3 5.7	20.2
403372	2009 HO_{80}	16.9	X	61.03139	48.74729	135.24303	7.26141	0.0818148	0.25133596	2.4867548	21	5 25.3	19.9
403373	2009 HS_{80}	16.4	X	351.69669	49.42617	121.74717	14.00073	0.1268862	0.23288324	2.6164387	21	1 9.9	19.5
403374	2009 HN_{96}	17.2	X	212.39923	143.91982	158.40609	6.66401	0.1275390	0.22262597	2.6962004	21	1 17.9	21.4
403375	2009 HX_{103}	16.9	X	93.47260	300.29166	162.61781	9.71199	0.1633936	0.23824616	2.5770258	21	4 4.9	20.2
403376	2009 JB_{10}	17.0	X	71.10144	31.43979	111.71769	9.32450	0.1403699	0.24563474	2.5250861	21	4 24.8	20.0
403377	2009 JD_{12}	17.0	X	318.60154	119.58183	86.52164	12.55028	0.2088082	0.23017052	2.6369562	21	—	—
403378	2009 KC_{11}	16.6	X	249.83179	130.18991	103.48061	15.30322	0.1519775	0.21858572	2.7293225	21	—	—
403379	2009 KU_{21}	15.4	X	3.85950	235.26233	106.19355	23.52998	0.1196400	0.17340959	3.1848377	21	10 10.8	19.8
403380	2009 MF_{9}	16.0	X	63.66636	204.51120	124.83179	16.42565	0.2906418	0.18248444	3.0783559	21	12 28.1	20.9
403381	2009 OQ_{18}	16.1	X	56.94680	34.48698	315.83636	10.76940	0.0915057	0.18283880	3.0743771	21	12 21.1	20.6
403382	2009 PS_{4}	16.1	X	75.14789	40.00460	314.82465	8.70947	0.1170525	0.18698374	3.0287737	21	—	—
403383	2009 PO_{19}	16.9	X	102.91397	317.64999	48.35943	1.22488	0.1870475	0.19242374	2.9714171	21	—	—
403384	2009 PS_{20}	15.7	X	116.99527	306.47978	338.95195	15.24530	0.1926923	0.18633301	3.0358212	21	12 14.2	21.0
403385	2009 PX_{20}	15.7	X	18.76686	131.53843	268.00788	15.74579	0.1523251	0.17996300	3.1070428	21	—	—
403386	2009 QM_{11}	16.7	X	83.83039	201.54164	198.95753	5.13967	0.1484302	0.19653808	2.9298018	21	1 2.5	20.4
403387	2009 QQ_{13}	15.5	X	65.12397	19.04828	338.63122	14.77213	0.1791788	0.18207964	3.0829167	21	—	—
403388	2009 QB_{14}	16.1	X	140.97455	276.74856	338.11673	11.45639	0.0381346	0.17753100	3.1353540	21	11 21.3	21.0
403389	2009 QZ_{14}	15.8	X	62.22172	6.33434	344.40433	9.28127	0.0409615	0.18005694	3.1059620	21	12 19.9	20.4
403390	2009 QD_{46}	15.8	X	74.06686	350.93235	348.07458	9.71552	0.0764397	0.18241315	3.0791579	21	12 25.2	20.4
403391	2009 QH_{52}	16.1	X	58.19445	21.04170	331.00580	9.21040	0.0808419	0.18091779	3.0961015	21	12 22.7	20.6
403392	2009 QE_{55}	16.4	X	80.66398	307.73035	352.10955	3.91773	0.1831061	0.17640682	3.1486603	21	11 26.2	21.2
403393	2009 QH_{56}	16.4	X	14.55498	200.58560	179.00594	9.34890	0.0766242	0.17497410	3.1658247	21	11 29.6	20.7
403394	2009 QP_{56}	16.5	X	24.40146	92.94325	359.28048	5.17266	0.1280593	0.19198218	2.9759715	21	—	—
403395	2009 QA_{59}	15.5	X	280.36199	110.51539	6.55137	9.60881	0.0292532	0.17528506	3.1620795	21	11 18.8	20.0
403396	2009 QW_{61}	16.3	X	82.21446	323.16889	344.74213	2.94573	0.1580355	0.17789478	3.1310782	21	12 5.0	21.0
403397	2009 QQ_{62}	16.3	X	94.45055	209.46716	151.08973	12.98564	0.1790358	0.18997008	2.9969482	21	—	—
403398	2009 RO_{22}	16.7	X	21.44711	76.74039	322.29159	15.97454	0.2989143	0.17955610	3.1117351	21	—	—
403399	2009 RU_{25}	15.9	X	333.30823	31.14774	53.70751	6.13908	0.1765953	0.17250621	3.1959469	21	12 19.9	19.5
403400	2009 RX_{36}	15.7	X	319.65435	143.43454	316.20950	10.80743	0.0319001	0.18113075	3.0936743	21	12 21.9	20.1
403401	2009 RW_{44}	16.6	X	8.69309	43.33356	353.49720	4.96005	0.2293958	0.17237040	3.1976254	21	12 28.9	20.3
403402	2009 RR_{45}	16.1	X	129.04038	113.39470	201.33553	9.18525	0.1666263	0.18646505	3.0343878	21	—	—
403403	2009 RT_{48}	16.3	X	31.70716	164.42440	196.54696	5.15423	0.1239723	0.17187494	3.2037677	21	12 4.6	20.5
403404	2009 RX_{50}	16.5	X	47.23738	204.59410	159.05945	0.43893	0.1720428	0.17561210	3.1581525	21	—	—
403405	2009 RM_{66}	15.6	X	143.81032	332.23675	320.99100	8.94950	0.0495406	0.18671513	3.0316777	21	—	—
403406	2009 RK_{71}	16.5	X	11.65062	72.75436	338.41334	8.97145	0.2202481	0.17668361	3.1453709	21	—	—
403407	2009 SQ_{14}	16.4	X	105.78243	357.91167	326.71160	7.30731	0.0733837	0.18453862	3.0554690	21	—	—
403408	2009 SM_{16}	16.4	X	56.76120	29.40846	334.19183	2.76951	0.0726450	0.18250025	3.0781781	21	—	—
403409	2009 SO_{17}	15.7	X	100.01682	333.15199	338.47374	9.00969	0.0568668	0.17893443	3.1189382	21	12 18.1	20.4
403410	2009 SA_{24}	16.3	X	114.40253	45.06882	254.50740	4.08417	0.1240716	0.18188542	3.0851110	21	12 24.2	21.0
403411	2009 SF_{24}	15.9	X	87.84257	7.82397	323.14625	6.49547	0.1273503	0.18166144	3.0876464	21	—	—
403412	2009 SZ_{35}	15.9	X	20.01445	50.23491	5.08176	8.32608	0.1557102	0.17821878	3.1272822	21	—	—
403413	2009 SV_{64}	17.1	X	13.70591	230.77021	184.85624	0.93559	0.3058480	0.17950046	3.1123780	21	—	—
403414	2009 SU_{72}	15.9	X	51.49169	353.26123	346.69879	8.29648	0.0764611	0.17496658	3.1659154	21	11 25.9	20.4
403415	2009 SU_{75}	16.1	X	105.46522	223.43960	80.45874	6.49115	0.1245109	0.17641567	3.1485550	21	12 19.9	21.0
403416	2009 SO_{76}	16.3	X	2.50132	321.55113	78.70674	6.69110	0.0349655	0.17149058	3.2085529	21	12 3.1	20.5
403417	2009 SX_{78}	16.0	X	343.08094	93.01175	342.37801	11.99763	0.2794294	0.17406952	3.1767831	21	—	—
403418	2009 SM_{92}	16.2	X	36.89354	15.21769	327.89527	7.42643	0.0508267	0.17163628	3.2067368	21	11 6.7	20.7
403419	2009 SA_{96}	16.3	X	121.35062	280.12376	18.78598	9.85316	0.0536250	0.18038163	3.1022337	21	12 26.4	21.0
403420	2009 SZ_{100}	16.5	X	70.06907	40.56373	336.70879	12.37865	0.0803301	0.18630816	3.0360911	21	—	—
403421	2009 SZ_{111}	15.9	X	347.08966	170.30946	258.78726	4.24479	0.1567851	0.17542438	3.1604051	21	12 24.9	19.4
403422	2009 SJ_{113}	16.7	X	66.52660	70.19359	291.74353	4.28341	0.0933832	0.18176341	3.0864914	21	—	—
403423	2009 SL_{115}	15.8	X	17.73197	40.37489	352.41540	10.23775	0.0721594	0.17624355	3.1506045	21	12 17.9	20.2
403424	2009 SK_{116}	16.5	X	88.19941	317.42426	343.98766	9.46584	0.0895588	0.17799634	3.1298871	21	11 24.2	21.3
403425	2009 SO_{122}	16.9	X	53.97002	143.23764	221.15278	1.72312	0.1263511	0.18219887	3.0815716	21	—	—
403426	2009 SS_{129}	16.8	X	81.70292	247.10229	87.50262	2.33429	0.1903859	0.17924343	3.1153526	21	—	—
403427	2009 ST_{130}	16.0	X	27.82593	351.55759	30.93997	11.99996	0.0851131	0.17456088	3.1708189	21	12 19.4	20.5
403428	2009 SJ_{132}	16.6	X	74.74051	290.02931	79.69106	2.93401	0.1105513	0.18328937	3.0693367	21	—	—
403429	2009 SA_{141}	16.1	X	139.04477	253.82784	349.23431	10.31681	0.0957607	0.17130665	3.2108491	21	11 6.0	21.2
403430	2009 ST_{175}	15.7	X	247.82685	158.16095	5.32701	8.44629	0.0260730	0.17931229	3.1145550	21	12 7.3	20.2
403431	2009 SD_{183}	16.2	X	62.91499	11.78767	338.50587	8.35561	0.0823186	0.17645710	3.1480621	21	12 25.5	20.8
403432	2009 SK_{183}	15.9	X	261.24944	102.05198	345.35977	11.02052	0.1451852	0.15592940	3.4186190	21	9 4.8	20.7
403433	2009 SZ_{183}	16.2	X	175.86231	302.04812	349.13553	9.28635	0.0788832	0.18912353	3.0058849	21	—	—
403434	2009 SG_{185}	15.9	X	297.65085	143.84052	359.86151	12.13144	0.0427253	0.18035176	3.1025762	21	—	—
403435	2009 SM_{192}	16.0	X	55.62207	47.97592	336.12925	12.28183	0.1888574	0.18359992	3.0658747	21	—	—
403436	2009 SL_{206}	16.1	X	137.82051	320.31492	346.35191	8.39518	0.1003177	0.18740664	3.0242154	21	—	—
403437	2009 SW_{212}	16.9	X	82.53454	153.41174	184.15968	3.65225	0.2689879	0.18054491	3.1003631	21	—	—
403438	2009 SF_{213}	15.6	X	92.60172	289.69467	29.09831	11.24691	0.1196469	0.17673136	3.1448043	21	12 23.9	20.5
403439	2009 SA_{216}	15.8	X	69.44986	314.62203	11.02706	9.41620	0.0889906	0.17509470	3.1643708	21	12 2.1	20.4
403440	2009 SY_{229}	16.2	X	82.95720	18.22124	346.18292	6.12387	0.1267565	0.18643046	3.0347632	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403441 2009 SM_{233}	15.9	X	340.71655	57.62868	18.22181	9.98822	0.2074237	0.17714364	3.1399231	21	12 25.5	19.3
403442 2009 SX_{234}	16.1	X	69.44103	279.90122	126.11281	13.57988	0.3431518	0.18711418	3.0273659	21	1 18.1	19.0
403443 2009 SW_{238}	16.3	X	41.76561	294.72283	129.38823	10.06482	0.3006424	0.18438183	3.0572009	21	—	—
403444 2009 SY_{245}	15.7	X	95.42029	211.30328	176.24191	9.06818	0.1523364	0.19263537	2.9692405	21	1 4.2	19.7
403445 2009 SB_{251}	15.9	X	44.09806	6.04703	6.15485	9.87287	0.0905082	0.17648138	3.1477733	21	12 30.6	20.4
403446 2009 SW_{268}	16.5	X	97.21729	138.73552	176.39817	1.28301	0.1628884	0.18030159	3.1031518	21	12 28.7	21.4
403447 2009 SQ_{273}	15.9	X	10.01233	14.03314	16.14047	10.70128	0.0869176	0.17374979	3.1806791	21	12 3.5	20.2
403448 2009 SM_{276}	16.0	X	7.18529	35.37107	21.67958	9.27743	0.0823010	0.17881856	3.1202855	21	—	—
403449 2009 SH_{288}	16.0	X	15.19763	30.94268	0.34243	11.14597	0.0907437	0.17316244	3.1878674	21	12 13.4	20.4
403450 2009 SP_{289}	16.0	X	64.64729	222.51285	156.29385	4.90162	0.2268536	0.18215467	3.0820701	21	—	—
403451 2009 SX_{293}	16.4	X	49.79819	329.28929	54.64427	8.61094	0.1584847	0.17987926	3.1080070	21	—	—
403452 2009 SA_{294}	16.3	X	357.52670	234.52034	149.57680	2.32174	0.0611336	0.17032580	3.2231642	21	11 8.9	20.6
403453 2009 SL_{305}	16.7	X	91.59758	209.07164	141.14482	1.67522	0.1396223	0.18658662	3.0330697	21	—	—
403454 2009 SU_{309}	15.7	X	112.23236	297.33359	356.14397	10.71539	0.1202368	0.17822142	3.1272513	21	12 13.6	20.7
403455 2009 ST_{318}	16.4	X	12.75219	260.24821	168.86764	5.01626	0.1295177	0.18060760	3.0996456	21	—	—
403456 2009 SC_{319}	15.8	X	84.32871	264.95538	134.66977	7.05055	0.0739428	0.19553703	2.9397927	21	—	—
403457 2009 SY_{321}	15.7	X	35.66006	3.80803	5.06035	13.99092	0.1029497	0.17472994	3.1687732	21	12 15.3	20.2
403458 2009 SE_{330}	15.9	X	60.51895	14.22669	347.38420	9.94460	0.1006697	0.18267373	3.0762290	21	—	—
403459 2009 SL_{332}	15.8	X	122.92069	82.81839	242.29627	9.48979	0.2571871	0.18929838	3.0040336	21	—	—
403460 2009 SD_{336}	16.8	X	50.42916	216.57683	172.47034	2.51460	0.2079412	0.18041678	3.1018308	21	—	—
403461 2009 ST_{342}	16.2	X	107.76237	240.57868	141.47967	13.81369	0.2519646	0.19178958	2.9779635	21	1 28.0	20.3
403462 2009 SA_{343}	15.8	X	110.08857	261.18311	38.68997	8.78437	0.0629345	0.17764490	3.1340137	21	12 14.7	20.5
403463 2009 SE_{352}	16.5	X	39.93420	96.71658	316.78894	14.34962	0.3022987	0.18306709	3.0718207	21	—	—
403464 2009 SG_{353}	17.0	X	14.30586	1.73710	47.83019	2.99686	0.1191637	0.17663076	3.1459984	21	—	—
403465 2009 SB_{363}	16.1	X	331.63639	71.92759	11.81018	10.04793	0.0361694	0.17788797	3.1311580	21	12 15.9	20.5
403466 2009 TM_{4}	16.4	X	106.79388	322.48644	5.83968	0.25598	0.1765602	0.18381018	3.0635362	21	—	—
403467 2009 TU_{4}	15.8	X	52.59953	226.27155	181.01131	10.97980	0.1619606	0.18490661	3.0514137	21	—	—
403468 2009 TZ_{7}	16.2	X	52.90954	293.07546	92.37894	6.25843	0.1455807	0.18108351	3.0942123	21	—	—
403469 2009 TV_{9}	15.9	X	357.97539	92.28844	338.09343	14.91070	0.2147841	0.17585570	3.1552353	21	—	—
403470 2009 TP_{10}	15.4	X	35.91937	255.67817	86.84681	6.94801	0.1057276	0.17014730	3.2254180	21	11 15.9	19.7
403471 2009 TT_{19}	16.6	X	40.40558	344.93999	57.54654	1.56985	0.1642369	0.17956806	3.1115969	21	—	—
403472 2009 TB_{27}	15.6	X	17.96277	9.72098	41.00729	18.24484	0.1927564	0.17692741	3.1424808	21	—	—
403473 2009 TN_{33}	15.9	X	70.48167	198.13668	152.12822	9.94977	0.1196967	0.18020631	3.1042455	21	—	—
403474 2009 TB_{34}	15.6	X	53.75410	127.12293	284.47547	9.39150	0.1017618	0.18864812	3.0109328	21	—	—
403475 2009 TP_{42}	16.5	X	23.17231	26.77082	6.54024	7.66910	0.1422688	0.17223293	3.1993267	21	—	—
403476 2009 UD_{3}	15.6	X	7.72585	153.26848	252.58768	9.36574	0.0760753	0.17396532	3.1780514	21	12 20.4	19.8
403477 2009 UK_{5}	15.3	X	133.50862	295.92982	355.63746	15.36047	0.0318275	0.17903096	3.1178170	21	12 31.4	20.2
403478 2009 UL_{8}	15.9	X	66.57645	230.65036	168.35410	10.12877	0.1540278	0.18733409	3.0249963	21	—	—
403479 2009 UQ_{20}	16.1	X	51.00418	297.25514	62.68205	5.84542	0.1673050	0.17602430	3.1532201	21	—	—
403480 2009 UP_{21}	16.0	X	306.35924	327.80112	116.77173	6.53036	0.1301733	0.16798911	3.2529843	21	11 7.3	20.1
403481 2009 UL_{27}	16.3	X	77.29649	146.52382	217.47086	10.47777	0.3463235	0.18100192	3.0951421	21	—	—
403482 2009 UP_{30}	16.7	X	72.88033	309.94571	51.83794	1.87437	0.1677612	0.17831507	3.1261562	21	—	—
403483 2009 UH_{38}	16.8	X	95.03024	279.05476	92.88954	1.81008	0.2010057	0.18542555	3.0457178	21	—	—
403484 2009 UB_{41}	17.0	X	37.96051	2.76989	47.52390	1.54349	0.1673042	0.18123056	3.0925384	21	—	—
403485 2009 UB_{54}	16.4	X	133.87838	304.16036	344.42268	9.01238	0.1462985	0.18437800	3.0572432	21	12 31.4	21.5
403486 2009 UX_{57}	15.8	X	67.73157	314.85259	32.54225	8.88350	0.2219108	0.17602829	3.1531725	21	—	—
403487 2009 UU_{61}	16.8	X	22.22151	347.39680	41.64671	9.29149	0.1458096	0.17555292	3.1588622	21	12 29.1	21.0
403488 2009 UC_{71}	16.0	X	76.27064	78.29383	295.37243	4.20194	0.1879554	0.18208199	3.0828902	21	—	—
403489 2009 UD_{73}	17.0	X	79.09244	169.11676	184.00070	4.56173	0.2503114	0.18476231	3.0530022	21	—	—
403490 2009 UJ_{73}	14.9	X	88.31430	113.42212	33.55373	9.64400	0.1990521	0.12633625	3.9335444	21	6 3.4	20.6
403491 2009 UX_{73}	16.2	X	56.96213	182.69574	201.18375	10.77022	0.2666601	0.17954833	3.1118248	21	—	—
403492 2009 UD_{89}	16.0	X	43.49525	307.19333	118.90299	4.32556	0.1592742	0.18257147	3.0773774	21	—	—
403493 2009 UE_{89}	15.9	X	112.95248	59.49606	2.75418	8.87308	0.1305161	0.19924594	2.9031962	21	3 8.3	19.9
403494 2009 UR_{89}	16.0	X	91.34422	350.46205	17.01986	10.08930	0.0787250	0.18303924	3.0721323	21	—	—
403495 2009 UM_{98}	16.2	X	84.77054	317.88196	59.50406	5.81697	0.1667665	0.18425721	3.0585791	21	—	—
403496 2009 UY_{131}	16.2	X	109.97722	15.75884	341.52825	11.90940	0.1241864	0.18793130	3.0185842	21	—	—
403497 2009 UT_{132}	15.9	X	68.40081	25.89839	346.86931	16.87019	0.2034398	0.18081425	3.0972835	21	—	—
403498 2009 UA_{137}	16.3	X	42.07521	35.19806	357.88567	9.83445	0.2171827	0.17647035	3.1479046	21	—	—
403499 2009 UK_{147}	16.6	X	54.01765	304.46699	39.26175	1.32896	0.0878398	0.16810472	3.2514927	21	12 5.8	21.1
403500 2009 VY_{14}	16.6	X	89.91131	88.26206	275.71331	3.34932	0.1716588	0.18313591	3.0710510	21	—	—
403501 2009 VS_{22}	16.7	X	64.15183	263.66401	138.88291	1.80005	0.1909907	0.18201475	3.0836494	21	—	—
403502 2009 VZ_{36}	16.9	X	60.08366	19.33970	350.80835	1.63072	0.2915692	0.17791608	3.1308283	21	—	—
403503 2009 VN_{59}	15.9	X	340.39691	115.99743	345.34967	15.38920	0.1982605	0.17377641	3.1803543	21	—	—
403504 2009 VP_{61}	16.7	X	87.53492	177.23363	178.88367	0.24802	0.1863822	0.17969990	3.1100747	21	—	—
403505 2009 VO_{80}	15.3	X	57.80989	217.97392	113.76269	22.53394	0.1987909	0.17259034	3.1949082	21	12 15.0	20.1
403506 2009 VY_{82}	16.3	X	55.06000	35.08368	12.19902	9.33743	0.1070058	0.18216972	3.0819003	21	—	—
403507 2009 VY_{91}	15.8	X	83.03487	255.81293	89.53089	13.41053	0.2133201	0.17724804	3.1386899	21	—	—
403508 2009 VT_{92}	15.5	X	40.43027	325.65512	65.72147	18.42031	0.2019372	0.17760853	3.1344416	21	—	—
403509 2009 WQ_{5}	15.5	X	16.24709	315.16085	83.52276	12.68225	0.2831019	0.17399354	3.1777079	21	—	—
403510 2009 WJ_{52}	15.5	X	123.88475	10.66056	12.14603	9.61597	0.1202862	0.19202971	2.9754804	21	2 2.7	19.9
403511 2009 WY_{89}	17.0	X	249.87526	216.68222	127.79007	4.03650	0.1103334	0.21107352	2.7937029	21	4 20.7	21.1
403512 2009 WT_{118}	16.7	X	71.07635	128.58793	225.58898	0.20929	0.1746457	0.17521203	3.1629581	21	—	—
403513 2009 WG_{120}	16.8	X	69.54588	303.85631	81.49309	0.45575	0.1644817	0.18007555	3.1057481	21	—	—
403514 2009 WW_{236}	16.6	X	34.05202	292.97341	91.97591	2.18869	0.1558799	0.17028810	3.2236399	21	—	—
403515 2009 XZ_{15}	14.9	X	180.03576	171.24601	278.04816	7.80620	0.1275382	0.12451546	3.9717984	21	6 19.2	21.0
403516 2010 AN_{3}	15.0	X	34.26133	305.55109	136.67409	27.42942	0.3831324	0.17671283	3.1450242	21	—	—
403517 2010 AR_{3}	17.1	X	53.72353	78.62033	81.67567	6.30066	0.0864748	0.27921936	2.3183146	21	4 6.8	19.5
403518 2010 AR_{101}	17.0	X	96.89958	194.10701	130.35675	5.39783	0.2770729	0.18231853	3.0802231	21	—	—
403519 2010 BJ_{61}	17.0	X	278.18158	329.61052	298.60890	6.62899	0.1842685	0.25372731	2.4711052	21	1 30.5	20.7
403520 2010 CS_{6}	17.2	X	0.38628	179.28483	124.27624	10.58937	0.2738266	0.27628551	2.3346976	21	8 23.2	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403521 2010 CH_{70}	15.2	X	202.21921	121.71623	313.26886	6.88336	0.1391875	0.12595470	3.9414842	21	6 22.6	21.4
403522 2010 CB_{83}	15.4	X	182.92391	298.73470	149.99819	3.25845	0.1596338	0.12299871	4.0043836	21	6 21.1	21.7
403523 2010 CN_{150}	17.3	X	76.21686	84.35703	333.28990	16.57381	0.0542952	0.34555290	2.0112205	21	—	—
403524 2010 DD_{3}	17.6	X	294.02625	105.03945	171.83746	1.33578	0.1710805	0.26891955	2.3771384	21	2 26.7	20.7
403525 2010 DF_{45}	17.4	X	30.50908	295.91180	317.76152	5.68494	0.2059299	0.28314700	2.2968259	21	8 3.2	19.2
403526 2010 ES_{36}	18.0	X	13.96130	15.52303	184.05289	5.06731	0.1659502	0.26915800	2.3757342	21	3 18.6	19.7
403527 2010 EC_{78}	17.5	X	312.91810	279.86228	17.49968	7.43114	0.1187299	0.27689856	2.3312504	21	4 27.5	20.0
403528 2010 ES_{101}	17.5	X	293.66184	91.44756	181.14620	3.07111	0.1733912	0.26097890	2.4251157	21	2 21.1	20.9
403529 2010 ED_{127}	17.8	X	82.03006	91.92672	140.53511	7.01448	0.1690014	0.28928084	2.2642425	21	9 18.4	20.8
403530 2010 EJ_{131}	17.9	X	103.48713	144.56563	44.48053	7.05954	0.0414847	0.28508043	2.2864293	21	7 28.4	20.8
403531 2010 FN_{1}	17.8	X	49.72627	204.94937	29.49372	6.31629	0.1507011	0.28466579	2.2886490	21	8 2.5	20.2
403532 2010 FG_{88}	17.9	X	113.76225	222.37826	44.85810	3.77973	0.1531194	0.30489752	2.1862515	21	12 4.5	21.0
403533 2010 FP_{88}	17.8	X	339.29669	210.49579	76.00271	3.44669	0.2229388	0.27217832	2.3581261	21	5 14.6	19.7
403534 2010 GZ_{29}	18.2	X	26.14895	182.84416	60.56080	2.91846	0.1609049	0.27793010	2.3254785	21	6 29.1	20.0
403535 2010 GE_{98}	17.6	X	68.30019	187.50567	22.24797	5.82861	0.1069685	0.27942227	2.3171921	21	7 17.2	20.3
403536 2010 GW_{102}	18.3	X	242.28023	102.22772	2.95040	6.29063	0.0900218	0.30162073	2.2020572	21	9 25.3	20.7
403537 2010 GY_{114}	17.8	X	43.76908	211.43164	24.80508	4.38263	0.0922309	0.27877211	2.3207935	21	7 13.9	20.3
403538 2010 GP_{119}	17.9	X	113.07784	166.25089	23.42416	5.54310	0.0957282	0.28626804	2.2801013	21	8 18.7	20.9
403539 2010 GN_{140}	18.0	X	28.78980	308.57374	293.50240	0.81555	0.1567107	0.27711896	2.3300141	21	7 2.2	19.9
403540 2010 GP_{145}	17.6	X	28.77612	25.54145	202.65854	4.29864	0.1813228	0.27276601	2.3547377	21	6 11.8	19.4
403541 2010 GO_{156}	17.9	X	164.49071	46.62896	116.97141	5.06953	0.0798858	0.29530573	2.2333398	21	9 12.2	21.0
403542 2010 HR_{8}	16.7	X	300.24520	77.91308	238.82032	10.40944	0.1778794	0.25739505	2.4475745	21	4 28.7	19.7
403543 2010 HG_{17}	16.7	X	310.67375	219.93000	128.52488	12.00268	0.2593713	0.26427043	2.4049368	21	6 18.6	19.3
403544 2010 HF_{80}	17.7	X	54.94939	131.37540	78.22061	4.41454	0.1712204	0.27661499	2.3328433	21	7 4.6	20.1
403545 2010 HM_{80}	17.6	X	18.22582	215.92204	55.64323	5.21888	0.2076574	0.27787536	2.3257839	21	8 7.1	19.3
403546 2010 HQ_{98}	17.5	X	289.21244	182.60989	139.20582	9.10109	0.2552208	0.25334726	2.4735759	21	4 15.7	21.2
403547 2010 HB_{104}	17.1	X	41.07894	319.99430	273.51167	7.87617	0.2447119	0.27571121	2.3379386	21	7 27.8	19.1
403548 2010 HB_{114}	17.4	X	54.11780	70.81075	137.06213	23.03316	0.2165059	0.27365971	2.3496084	21	7 9.5	20.1
403549 2010 JJ	17.2	X	6.98129	184.07405	94.12755	7.69201	0.1801622	0.27657352	2.3330765	21	7 15.4	18.7
403550 2010 JY_{29}	17.8	X	345.93852	150.17133	101.83345	3.68187	0.1428607	0.26534195	2.3984579	21	4 17.8	20.0
403551 2010 JX_{68}	17.0	X	179.41962	90.77849	304.37692	15.31046	0.2525896	0.23866090	2.5740395	21	4 4.1	21.9
403552 2010 JP_{71}	18.0	X	339.17406	88.39049	187.01609	9.21089	0.2599899	0.26707036	2.3880986	21	4 20.8	19.9
403553 2010 JR_{72}	17.5	X	85.27837	136.80081	147.50685	8.54722	0.0551120	0.29769408	2.2213786	21	11 19.9	20.4
403554 2010 JN_{165}	18.2	X	66.12151	106.73521	81.68382	2.22263	0.1248010	0.27323025	2.3520698	21	6 12.9	20.7
403555 2010 JQ_{168}	17.8	X	5.54135	116.82495	170.98946	7.29005	0.2804665	0.27372804	2.3492173	21	8 4.7	18.8
403556 2010 KU_{58}	16.3	X	305.63244	233.70131	316.27273	16.03394	0.0648741	0.22461173	2.6802858	21	—	—
403557 2010 KR_{88}	17.2	X	197.18932	207.86326	167.13175	9.23471	0.1737939	0.23804447	2.5784813	21	4 2.5	21.4
403558 2010 LZ_{4}	15.8	X	173.23594	11.24638	3.48814	13.10082	0.2968068	0.22935314	2.6432176	21	3 17.9	20.4
403559 2010 LD_{35}	17.2	X	343.24460	236.52349	68.51554	7.21567	0.1488268	0.27390838	2.3481860	21	7 4.3	19.3
403560 2010 LA_{70}	17.4	X	261.95701	350.83958	336.82786	7.94400	0.1142365	0.24415814	2.5352565	21	4 4.2	21.2
403561 2010 LK_{81}	16.9	X	311.47043	352.64936	11.29688	11.37591	0.1964755	0.26281414	2.4138127	21	7 30.5	19.4
403562 2010 LX_{94}	16.7	X	119.08678	121.73695	320.67845	13.65416	0.2195848	0.22962244	2.6411506	21	4 8.8	20.9
403563 Ledbetter	16.8	X	221.34030	323.47645	329.21334	4.45769	0.0265079	0.22437209	2.6821939	21	1 16.6	20.4
403564 2010 MV_{33}	16.9	X	202.42819	354.48723	1.26203	10.95282	0.1364841	0.23310271	2.6147961	21	3 14.3	21.0
403565 2010 ML_{60}	16.9	X	128.13434	283.43195	100.77826	7.18412	0.1515135	0.21903223	2.7256120	21	2 6.6	20.7
403566 2010 MF_{103}	17.3	X	216.76494	166.49318	151.59571	2.44900	0.2035939	0.22904883	2.6455583	21	2 9.0	21.7
403567 2010 MQ_{107}	16.3	X	224.47344	59.39157	283.94442	13.30237	0.2060725	0.23530641	2.5984451	21	3 9.4	21.0
403568 2010 NJ_{6}	16.8	X	313.04686	23.63561	291.76252	5.46118	0.1315524	0.25907378	2.4369900	21	5 24.4	19.7
403569 2010 NO_{37}	17.5	X	242.21422	357.27009	305.55184	1.48260	0.1845365	0.23168864	2.6254246	21	2 12.0	21.8
403570 2010 NK_{42}	17.1	X	186.05638	68.11068	314.70109	6.10342	0.2049421	0.23168879	2.6254235	21	3 30.2	21.6
403571 2010 NJ_{58}	17.3	X	105.03571	332.45277	64.05693	1.18451	0.0787593	0.21468965	2.7622436	21	1 13.6	21.0
403572 2010 NQ_{71}	17.0	X	168.32471	343.44610	47.05449	3.10994	0.2191682	0.22777619	2.6554034	21	3 29.6	21.3
403573 2010 NT_{79}	16.3	X	141.81575	120.76169	265.66930	14.84709	0.1365542	0.22076803	2.7113063	21	2 13.9	20.7
403574 2010 NM_{97}	16.8	X	204.19849	48.61415	333.83114	10.97191	0.2112079	0.23587457	2.5942708	21	4 11.2	21.4
403575 2010 NA_{99}	17.2	X	141.11410	93.66163	323.74057	2.08410	0.2226935	0.22570418	2.6716301	21	4 6.2	21.3
403576 2010 NL_{108}	17.0	X	178.55166	319.48539	43.61563	8.03603	0.1588748	0.22593316	2.6698246	21	3 5.6	21.4
403577 2010 NV_{114}	17.1	X	141.08606	129.08079	215.82193	3.62583	0.0816581	0.21195523	2.7859498	21	—	—
403578 2010 OY_{24}	16.8	X	114.16373	348.28735	35.88069	6.16253	0.0879700	0.21279475	2.7786176	21	1 12.7	20.6
403579 2010 OQ_{30}	16.8	X	146.43612	269.07299	144.27700	15.43131	0.2847805	0.22446367	2.6814642	21	4 16.7	21.6
403580 2010 OW_{33}	17.3	X	116.53827	79.97486	305.80080	2.63952	0.1567874	0.21324332	2.7747196	21	1 26.3	20.8
403581 2010 OY_{47}	17.0	X	171.77427	181.92574	196.62925	7.45880	0.1911227	0.22585751	2.6704207	21	3 14.6	21.5
403582 2010 OQ_{59}	16.6	X	193.21771	78.00505	341.25117	8.85376	0.1981809	0.23800707	2.5787514	21	5 19.7	21.1
403583 2010 OD_{73}	17.0	X	89.98891	140.77482	304.13740	7.46200	0.2551728	0.21522908	2.7576263	21	3 18.7	20.6
403584 2010 OR_{99}	16.9	X	146.15959	352.22732	357.35113	4.17029	0.0853770	0.21176729	2.7875979	21	1 7.9	20.8
403585 2010 OE_{127}	17.2	X	248.53123	37.26173	302.38093	15.22141	0.2000866	0.24350516	2.5397868	21	3 23.6	21.7
403586 2010 PN_{10}	16.0	X	295.80591	313.30827	281.91256	12.60023	0.1239376	0.23840956	2.5758483	21	1 16.7	19.6
403587 2010 PY_{23}	17.4	X	218.32141	40.81807	326.56249	3.01601	0.0600603	0.24279770	2.5447181	21	4 12.3	21.1
403588 2010 PO_{25}	16.3	X	144.38181	78.04905	259.48450	18.10174	0.3343761	0.21275283	2.7789826	21	1 13.1	21.2
403589 2010 PA_{40}	16.8	X	193.49486	269.15756	130.52675	5.91140	0.2598876	0.23354343	2.6115055	21	5 1.0	21.5
403590 2010 PY_{46}	16.7	X	143.86739	258.04328	128.36754	6.01477	0.1333603	0.21842811	2.7306353	21	2 24.1	20.8
403591 2010 PF_{58}	17.6	X	299.76383	122.28660	193.17583	0.58036	0.1963430	0.25524450	2.4613032	21	4 24.8	20.8
403592 2010 PN_{77}	17.4	X	290.35493	151.19802	187.69631	1.06255	0.2052707	0.25647908	2.4533984	21	5 13.4	20.6
403593 2010 PT_{79}	17.3	X	259.15633	4.01060	295.21596	2.93261	0.2371261	0.24010289	2.5637232	21	2 17.4	21.5
403594 2010 PC_{80}	16.9	X	156.89839	15.95638	345.24017	5.54220	0.0075450	0.22567171	2.6718863	21	1 23.2	20.5
403595 2010 QN_{2}	16.8	X	247.34782	38.11876	348.51092	6.99788	0.2186992	0.25411793	2.4685722	21	5 25.6	20.9
403596 2010 RN_{4}	16.8	X	24.33737	104.31877	23.11942	5.43891	0.0580172	0.22233253	2.6985722	21	1 12.7	20.2
403597 2010 RO_{5}	17.5	X	185.54919	335.81600	336.42179	1.94312	0.0635286	0.22119698	2.7078000	21	1 1.6	21.4
403598 2010 RN_{7}	17.4	X	270.03747	261.47875	17.50734	4.57117	0.2168860	0.23833511	2.5763846	21	2 6.6	21.5
403599 2010 RQ_{7}	17.2	X	134.76012	232.03481	144.10094	6.81588	0.0161195	0.22283790	2.6944906	21	1 14.3	20.9
403600 2010 RM_{10}	16.7	X	194.91318	303.54349	329.53364	3.99342	0.1249097	0.21223701	2.7834834	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403601 2010 RU_{14}	17.1	X	222.94953	45.19395	295.64124	12.73624	0.1852714	0.23801927	2.5786633	21	3 6.4	21.7
403602 2010 RK_{29}	17.4	X	120.89225	45.38507	343.66253	6.32050	0.0572067	0.22141771	2.7060002	21	1 21.3	21.0
403603 2010 RC_{37}	16.6	X	263.87512	327.05524	321.23082	12.35718	0.2702274	0.23957507	2.5674873	21	2 7.3	20.8
403604 2010 RZ_{37}	16.3	X	162.48383	66.25256	353.35139	11.59616	0.2662844	0.23178080	2.6247286	21	4 25.7	21.1
403605 2010 RL_{40}	16.2	X	244.56287	278.78933	336.05015	24.36312	0.1338134	0.22046942	2.7137540	21	—	—
403606 2010 RL_{48}	16.3	X	327.58401	217.63342	186.31128	8.89773	0.0457687	0.18282072	3.0745798	21	10 25.6	20.3
403607 2010 RM_{49}	16.9	X	126.79692	348.33724	355.82984	5.26985	0.0438573	0.20886887	2.8133272	21	—	—
403608 2010 RC_{51}	17.3	X	158.90369	216.52127	169.13895	1.87072	0.2139999	0.22607526	2.6687058	21	3 14.8	21.7
403609 2010 RP_{55}	16.7	X	354.18787	217.15493	330.40906	9.94759	0.1174550	0.23102366	2.6304603	21	2 7.8	19.6
403610 2010 RQ_{59}	17.1	X	169.20979	87.15494	281.82867	3.13790	0.1752145	0.22602712	2.6690846	21	2 27.9	21.3
403611 2010 RW_{81}	17.1	X	163.57914	345.62521	19.14394	5.82549	0.0938591	0.22396292	2.6854597	21	2 14.9	21.1
403612 2010 RR_{85}	17.3	X	164.60050	274.94985	84.86524	2.96597	0.0879052	0.22626631	2.6672033	21	2 7.7	21.1
403613 2010 RZ_{88}	17.2	X	210.73874	173.20250	177.77223	2.25553	0.1202333	0.23232298	2.6206434	21	3 15.4	21.3
403614 2010 RB_{101}	16.9	X	201.69731	289.28252	356.79255	11.27605	0.1530675	0.21658010	2.7461463	21	—	—
403615 2010 RJ_{101}	16.6	X	346.75527	96.63407	357.21424	10.87963	0.0646803	0.19839993	2.9114435	21	—	—
403616 2010 RM_{101}	17.5	X	146.88311	28.33023	353.55750	8.77163	0.1066238	0.22231996	2.6986739	21	2 19.2	21.4
403617 2010 RC_{105}	17.5	X	36.97064	141.38185	352.53342	1.55824	0.0369941	0.22105732	2.7089404	21	2 7.8	20.8
403618 2010 RT_{106}	17.2	X	169.11429	23.41730	2.81747	3.85025	0.1170948	0.22842602	2.6503649	21	3 18.4	21.0
403619 2010 RC_{112}	17.0	X	245.40492	274.58420	21.01015	4.81946	0.2270036	0.23282122	2.6169033	21	2 6.1	21.4
403620 2010 RA_{121}	17.4	X	48.85264	96.53093	342.81487	3.70077	0.0332026	0.21501021	2.7594974	21	—	—
403621 2010 RD_{127}	18.2	X	209.13805	307.17524	51.81444	3.30975	0.2137507	0.23460031	2.6036563	21	3 24.2	22.7
403622 2010 RY_{127}	16.8	X	151.43104	4.12281	338.29782	13.34492	0.1009707	0.21659985	2.7459794	21	1 7.9	20.9
403623 2010 RE_{129}	16.4	X	228.47656	294.44927	359.00529	13.67659	0.0511929	0.22171553	2.7035763	21	1 29.8	20.5
403624 2010 RQ_{133}	17.0	X	228.58609	28.63467	332.89572	15.60389	0.1821792	0.24084363	2.5584638	21	4 4.2	21.5
403625 2010 RB_{148}	17.4	X	159.22669	126.44659	220.41612	5.14903	0.0580856	0.22050260	2.7134818	21	1 12.8	21.3
403626 2010 RQ_{157}	17.3	X	270.30233	300.59277	352.23910	13.29847	0.1780546	0.24052789	2.5607023	21	2 27.3	21.2
403627 2010 RJ_{174}	16.8	X	170.90374	10.64699	340.40825	5.68932	0.0253200	0.22055536	2.7130490	21	1 30.5	20.5
403628 2010 RC_{180}	17.1	X	132.98220	114.95330	313.75416	5.66082	0.1624640	0.23015471	2.6370769	21	4 3.9	21.1
403629 2010 RP_{183}	16.8	X	280.78260	124.97262	150.71121	9.92577	0.0909861	0.23235070	2.6204350	21	2 26.1	20.3
403630 2010 RW_{183}	16.5	X	53.39429	56.51558	358.87662	5.64965	0.0226201	0.20503680	2.8482723	21	—	—
403631 2010 SC_{6}	15.8	X	6.26605	164.31167	215.47357	9.09664	0.1124156	0.18295709	3.0730519	21	11 22.4	19.6
403632 2010 SJ_{9}	17.2	X	182.31439	185.50421	181.12256	6.35511	0.1966563	0.22973570	2.6402824	21	3 9.8	21.5
403633 2010 ST_{11}	17.1	X	176.66185	8.45361	15.97375	6.32333	0.2126110	0.23000026	2.6382574	21	3 28.2	21.4
403634 2010 SD_{18}	17.5	X	154.47678	9.12622	358.52041	4.23016	0.1169020	0.22270819	2.6955368	21	2 10.1	21.4
403635 2010 SH_{19}	17.1	X	113.30950	341.00224	47.50122	3.97697	0.1864559	0.21411953	2.7671447	21	1 31.1	20.9
403636 2010 SC_{20}	16.8	X	63.16129	207.28031	215.63154	4.55639	0.1528201	0.20917323	2.8105974	21	—	—
403637 2010 SB_{21}	17.6	X	107.88818	50.99014	1.64930	2.28995	0.1825520	0.21831122	2.7316099	21	2 21.5	21.2
403638 2010 SH_{39}	17.0	X	309.12087	200.82798	207.97778	10.76755	0.1992524	0.26889991	2.3772542	21	9 29.9	19.0
403639 2010 TG_{1}	17.5	X	248.58535	107.36846	183.99446	1.91621	0.1801223	0.22960592	2.6412773	21	2 4.1	21.9
403640 2010 TS_{2}	17.5	X	110.98009	64.27898	313.33657	3.34257	0.0797524	0.21207682	2.7848849	21	—	—
403641 2010 TC_{3}	17.1	X	32.98549	64.46461	8.38818	4.68044	0.0404197	0.20475164	2.8509162	21	—	—
403642 2010 TB_{5}	17.0	X	243.19784	124.30560	186.19672	12.61665	0.2044209	0.23451816	2.6042644	21	2 18.5	21.5
403643 2010 TO_{15}	16.9	X	138.67005	126.72442	258.99811	6.01863	0.0910355	0.22077171	2.7112762	21	2 8.7	20.8
403644 2010 TO_{30}	16.8	X	192.21561	112.54193	207.34352	4.56411	0.0347506	0.21940934	2.7224880	21	1 15.7	20.8
403645 2010 TE_{43}	17.3	X	53.73415	148.11740	279.46198	1.83277	0.0525415	0.20897632	2.8123627	21	—	—
403646 2010 TP_{45}	17.0	X	228.78785	50.27083	220.55205	1.90538	0.0727797	0.21508885	2.7588248	21	—	—
403647 2010 TW_{53}	17.1	X	211.65661	244.20436	32.99878	3.54045	0.1650245	0.21654445	2.7464478	21	—	—
403648 2010 TH_{62}	17.2	X	57.26519	154.30464	265.51377	4.05792	0.0617385	0.20862875	2.8154854	21	—	—
403649 2010 TP_{64}	17.2	X	270.81536	310.22977	356.45931	8.61275	0.1610542	0.23875310	2.5733767	21	3 16.7	21.1
403650 2010 TG_{71}	16.7	X	157.26983	26.49919	339.95446	10.85547	0.1858131	0.22250743	2.6971579	21	2 17.8	20.9
403651 2010 TE_{76}	17.3	X	162.48534	294.50676	41.20998	2.62483	0.0925055	0.21559147	2.7545352	21	1 8.9	21.3
403652 2010 TN_{78}	17.0	X	194.81745	206.08613	89.39652	1.87813	0.0506057	0.21268439	2.7795787	21	—	—
403653 2010 TG_{83}	16.9	X	106.78509	82.91309	353.59469	13.85617	0.1930077	0.22532404	2.6746340	21	3 21.1	20.5
403654 2010 TH_{84}	17.3	X	176.50918	322.76806	25.61648	5.28480	0.0774362	0.22367440	2.6877685	21	2 7.3	21.2
403655 2010 TB_{89}	17.0	X	218.42739	274.81421	28.93247	11.74822	0.0715818	0.22339050	2.6900452	21	1 30.4	21.2
403656 2010 TO_{92}	16.3	X	56.16909	141.68413	324.91006	8.14964	0.1642243	0.21690456	2.7434071	21	2 9.9	19.1
403657 2010 TS_{92}	16.4	X	136.00543	108.87392	344.40413	12.63521	0.2066021	0.23292879	2.6160976	21	5 10.4	20.8
403658 2010 TZ_{95}	17.3	X	185.69114	313.89157	46.79966	1.66597	0.1363417	0.22825276	2.6517059	21	3 4.9	21.5
403659 2010 TQ_{96}	16.7	X	224.36233	71.49367	151.93308	1.92828	0.0839515	0.20318118	2.8655879	21	—	—
403660 2010 TS_{103}	17.0	X	179.25728	263.10748	47.50599	4.81831	0.0638389	0.21453693	2.7635543	21	—	—
403661 2010 TL_{105}	16.9	X	152.72285	17.49164	352.27509	5.68539	0.0349026	0.22035275	2.7147118	21	2 2.5	20.7
403662 2010 TB_{107}	17.4	X	166.01829	213.38466	106.44651	1.63677	0.0689488	0.21327538	2.7744414	21	—	—
403663 2010 TH_{124}	17.0	X	139.80705	313.98634	41.41768	3.73091	0.1020024	0.21453709	2.7635529	21	1 9.1	20.9
403664 2010 TT_{127}	16.8	X	170.64055	110.52984	308.49493	10.86654	0.1736983	0.23453229	2.6041597	21	4 27.2	21.2
403665 2010 TP_{157}	17.6	X	249.72384	154.71509	178.41677	5.44131	0.1878980	0.23922751	2.5699734	21	3 26.8	21.8
403666 2010 TP_{158}	16.3	X	286.82576	81.07744	34.64658	9.46447	0.1494955	0.18625937	3.0366213	21	11 14.1	20.0
403667 2010 TQ_{175}	17.0	X	280.49357	167.04122	139.04033	8.84146	0.2469774	0.24386678	2.5372755	21	3 18.4	20.9
403668 2010 TZ_{176}	16.7	X	177.20925	98.16181	267.86911	13.66962	0.1629914	0.22533164	2.6745739	21	2 25.3	21.3
403669 2010 TA_{183}	16.9	X	205.89066	276.13091	28.16943	10.74396	0.1296434	0.22086794	2.7104887	21	1 17.9	21.4
403670 2010 TT_{184}	17.4	X	111.09418	157.71847	246.42414	1.41455	0.1103138	0.21606511	2.7505083	21	2 3.7	21.1
403671 2010 UQ_{2}	17.2	X	47.19651	184.53246	330.47952	2.22374	0.0387933	0.22483415	2.6785178	21	3 20.2	20.5
403672 2010 UO_{11}	17.1	X	192.29161	288.19898	60.79052	2.90786	0.2150661	0.22638476	2.6662728	21	2 27.9	21.6
403673 2010 UK_{21}	16.9	X	112.56682	26.75319	34.79841	3.80617	0.1402535	0.21894407	2.7263436	21	3 5.5	20.7
403674 2010 UE_{23}	16.2	X	202.94062	144.83115	43.61444	5.33183	0.0736410	0.18204851	3.0832681	21	11 11.5	20.9
403675 2010 UM_{25}	16.4	X	75.30647	287.10049	89.24227	3.44538	0.1121282	0.19445361	2.9507022	21	—	—
403676 2010 UZ_{26}	17.3	X	178.97274	180.64873	224.00000	2.14382	0.1827422	0.23011809	2.6373567	21	4 21.9	21.6
403677 2010 UB_{31}	16.4	X	210.98573	251.53712	282.80453	4.09529	0.1000942	0.17878740	3.1206480	21	10 30.2	21.2
403678 2010 UQ_{33}	16.0	X	316.42816	118.56673	14.98110	10.15951	0.0610745	0.19598800	2.9352813	21	—	—
403679 2010 UU_{33}	17.2	X	209.39549	350.96243	341.94214	4.23043	0.1633809	0.22542238	2.6738561	21	2 21.4	21.6
403680 2010 UB_{58}	15.8	X	356.11512	346.80989	51.49355	12.74760	0.0455048	0.17850030	3.1239932	21	11 23.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403681 2010 UZ_{85}	17.0	X	153.09881	267.04349	67.74303	5.33217	0.0727306	0.21028323	2.8006980	21	—	—
403682 2010 UB_{107}	16.7	X	70.12952	79.79038	355.43832	8.67622	0.1501089	0.21178838	2.7874128	21	1 25.2	20.0
403683 2010 VT_{38}	16.8	X	166.47963	6.65666	60.55621	16.01845	0.2486295	0.23095353	2.6309927	21	5 12.9	21.4
403684 2010 VK_{40}	16.9	X	157.83278	23.04722	334.09595	4.43471	0.1735219	0.21829661	2.7317317	21	2 6.1	21.0
403685 2010 VY_{47}	16.1	X	303.35478	52.95148	47.91646	5.88483	0.0901699	0.17892192	3.1190836	21	11 26.1	20.0
403686 2010 VX_{55}	17.0	X	116.72590	251.01335	103.23889	3.27975	0.0779432	0.20253146	2.8717132	21	—	—
403687 2010 VY_{63}	16.8	X	118.46468	161.88497	181.79860	5.62983	0.1240022	0.20128003	2.8836038	21	—	—
403688 2010 VB_{65}	16.1	X	95.04593	305.34396	37.63618	11.04772	0.1107910	0.19220346	2.9736869	21	—	—
403689 2010 VW_{67}	17.3	X	201.66054	270.90862	112.82492	3.86781	0.2056365	0.23449785	2.6044147	21	4 17.5	21.7
403690 2010 VF_{85}	16.0	X	354.82236	2.02614	63.83344	11.05521	0.0537378	0.18511186	3.0491577	21	12 27.9	20.1
403691 2010 VW_{95}	17.4	X	194.01919	338.89657	41.53152	6.05847	0.0983848	0.22879045	2.6475497	21	4 6.2	21.3
403692 2010 VY_{97}	16.9	X	135.08714	157.60356	239.23982	4.38942	0.0551958	0.21769568	2.7367566	21	2 14.6	20.9
403693 2010 VK_{100}	16.5	X	170.47928	65.99189	348.77019	23.85600	0.1409883	0.23375673	2.6099166	21	4 13.5	21.0
403694 2010 VG_{102}	17.3	X	93.36490	181.44667	208.63287	1.34676	0.0795176	0.20297409	2.8675367	21	—	—
403695 2010 VN_{105}	16.6	X	29.86678	141.10972	216.48966	10.72207	0.1764072	0.18227600	3.0807023	21	12 7.3	20.6
403696 2010 VQ_{105}	17.1	X	87.97172	253.26423	143.20948	2.69591	0.0690295	0.20400287	2.8578880	21	—	—
403697 2010 VG_{113}	16.8	X	69.90055	269.06806	117.97411	3.16150	0.1104625	0.19682429	2.9269608	21	—	—
403698 2010 VS_{116}	16.5	X	323.77628	160.76340	294.52486	4.67285	0.1332828	0.18472021	3.0534661	21	12 20.6	20.1
403699 2010 VC_{118}	16.0	X	51.04655	323.50084	30.41220	9.02252	0.0631254	0.18344930	3.0675525	21	12 12.9	20.3
403700 2010 VZ_{144}	16.3	X	207.64094	179.72804	83.11956	9.98471	0.0312991	0.20167173	2.8798688	21	—	—
403701 2010 VF_{149}	16.3	X	222.44083	32.17958	182.21174	5.61294	0.0499114	0.18965920	3.0002224	21	—	—
403702 2010 VR_{150}	16.1	X	300.04386	5.83106	78.93871	9.66548	0.0567821	0.17676029	3.1444612	21	11 7.4	20.3
403703 2010 VD_{157}	17.2	X	141.48700	179.81240	178.15029	1.61177	0.0625857	0.20709732	2.8293482	21	1 9.9	21.1
403704 2010 VL_{159}	15.9	X	334.43334	346.56305	80.63259	11.80603	0.1100045	0.18062194	3.0994815	21	12 1.9	19.8
403705 2010 VN_{166}	16.5	X	258.94664	148.25884	58.24818	2.92284	0.0210697	0.19930060	2.9026654	21	—	—
403706 2010 VU_{171}	16.1	X	229.12505	111.50286	65.24991	10.97620	0.0223070	0.17965714	3.1105683	21	12 2.5	20.3
403707 2010 VY_{172}	16.2	X	232.82213	97.07913	71.79055	10.29615	0.0317290	0.17793716	3.1305810	21	11 26.6	20.6
403708 2010 VF_{175}	17.1	X	254.10900	81.13362	149.32810	2.64924	0.0259652	0.20260530	2.8710154	21	—	—
403709 2010 VB_{185}	16.1	X	200.55080	256.04617	285.92840	9.10358	0.0701759	0.17606797	3.1526988	21	10 28.7	21.0
403710 2010 VD_{187}	16.9	X	208.90166	208.75878	158.14568	7.19336	0.2317141	0.23112859	2.6296640	21	4 2.9	21.5
403711 2010 VE_{203}	17.2	X	191.76883	71.10585	333.51323	4.91684	0.0934918	0.23561320	2.5961890	21	4 30.4	21.1
403712 2010 VV_{203}	16.5	X	170.05460	352.74367	315.64819	7.75883	0.1371503	0.21025253	2.8009707	21	—	—
403713 2010 VL_{204}	16.8	X	115.97207	51.36310	350.80185	5.07737	0.0742054	0.21389631	2.7690694	21	2 4.4	20.6
403714 2010 VT_{205}	17.1	X	65.24263	114.71154	275.63834	1.00420	0.0781448	0.19952038	2.9005334	21	—	—
403715 2010 VA_{208}	16.7	X	230.57862	342.96736	296.01974	2.38967	0.1632225	0.21716617	2.7412034	21	1 8.1	21.1
403716 2010 VK_{215}	16.9	X	73.66284	125.16279	3.77437	3.55166	0.0493546	0.22307193	2.6926057	21	3 25.2	20.4
403717 2010 VV_{219}	17.2	X	203.74057	68.95499	261.17737	4.24001	0.0764658	0.22239433	2.6980722	21	2 10.4	21.3
403718 2010 WU_{7}	16.1	X	331.68224	89.36574	352.18340	9.66174	0.1078299	0.18408409	3.0604965	21	12 15.3	20.0
403719 2010 WH_{11}	16.2	X	286.37141	152.38989	357.80794	9.50884	0.1845293	0.18588530	3.0406937	21	12 23.9	20.0
403720 2010 WX_{12}	16.9	X	356.80806	340.41919	121.26321	3.01786	0.0452945	0.19536606	2.9415076	21	—	—
403721 2010 WK_{24}	16.9	X	136.68247	287.72105	38.79395	2.52963	0.0801381	0.19732880	2.9219699	21	—	—
403722 2010 WR_{26}	17.0	X	2.61747	93.49585	330.29550	1.35882	0.0931942	0.18624505	3.0367769	21	—	—
403723 2010 WU_{30}	16.4	X	206.13401	194.98245	73.18995	12.48584	0.0655705	0.19839807	2.9114618	21	—	—
403724 2010 WR_{52}	16.4	X	333.16981	28.21326	51.79755	5.95827	0.1093879	0.18187325	3.0852486	21	12 15.4	20.1
403725 2010 WV_{53}	16.6	X	184.47616	276.37310	60.50455	12.85639	0.1757184	0.21493045	2.7601801	21	2 10.7	21.3
403726 2010 WQ_{58}	16.4	X	37.56556	299.45210	75.08071	11.55270	0.0476100	0.18272539	3.0756491	21	12 19.6	20.7
403727 2010 WH_{60}	16.5	X	311.17164	180.25387	271.22786	4.34092	0.1811548	0.17764600	3.1340008	21	11 17.9	20.1
403728 2010 WR_{63}	16.0	X	232.97786	98.43900	79.43278	5.48668	0.1443928	0.17626979	3.1502918	21	11 23.2	20.6
403729 2010 XU_{8}	16.9	X	245.42870	214.20665	185.40985	4.35746	0.2475819	0.24420006	2.5349664	21	6 9.5	21.0
403730 2010 XX_{10}	16.7	X	251.02832	203.46779	167.17180	4.93358	0.2972397	0.24130628	2.5551926	21	5 5.9	21.2
403731 2010 XQ_{20}	16.2	X	83.39901	130.27119	255.35229	8.87761	0.1095880	0.19321363	2.9633131	21	—	—
403732 2010 XA_{39}	17.0	X	134.27349	266.16130	125.64690	4.47949	0.1664872	0.21316272	2.7754190	21	2 24.8	21.2
403733 2010 XS_{40}	16.2	X	278.36126	147.73465	356.31940	9.80041	0.0640571	0.18267764	3.0761851	21	12 18.6	20.5
403734 2010 XB_{41}	15.6	X	48.43878	293.36000	82.86936	11.40486	0.1022736	0.18205399	3.0832062	21	—	—
403735 2010 XE_{44}	15.9	X	353.73049	167.45152	269.33443	8.54147	0.1243630	0.18637242	3.0353932	21	—	—
403736 2010 XC_{57}	17.0	X	161.98863	277.38028	66.11641	5.89456	0.0963531	0.21177790	2.7875048	21	1 19.4	21.1
403737 2010 XW_{57}	16.3	X	7.08956	314.84553	123.41551	10.18095	0.1753710	0.19026849	2.9938139	21	—	—
403738 2010 XU_{66}	16.1	X	68.26746	247.26489	98.91519	11.11731	0.0232482	0.18182130	3.0858363	21	12 19.8	20.5
403739 2010 XN_{85}	17.2	X	165.35708	256.24226	150.14687	5.57241	0.1709274	0.22385108	2.6863540	21	4 14.0	21.6
403740 2011 AZ	17.5	X	167.28206	64.00594	339.27210	1.30970	0.2889797	0.22134490	2.7065935	21	4 15.1	22.4
403741 2011 AM_{5}	16.0	X	167.87267	283.55183	202.80298	27.79115	0.2104786	0.23698706	2.5861456	21	7 18.4	21.0
403742 2011 AB_{13}	15.6	X	324.56143	56.91955	33.00009	10.22430	0.2065917	0.17575266	3.1564684	21	12 8.7	19.0
403743 2011 AJ_{14}	15.8	X	38.51435	53.35104	311.10161	16.07855	0.1596922	0.17310049	3.1886279	21	12 23.9	20.3
403744 2011 AJ_{16}	15.7	X	325.95705	152.74098	322.35089	7.55857	0.1596735	0.17943354	3.1131518	21	—	—
403745 2011 AS_{23}	15.8	X	357.33345	320.84962	108.35049	12.36998	0.1040898	0.17842816	3.1248352	21	—	—
403746 2011 AR_{29}	16.4	X	39.97969	53.74378	327.68931	9.52143	0.1813261	0.18094988	3.0957355	21	—	—
403747 2011 AX_{41}	15.8	X	335.79972	327.60360	93.37456	12.56993	0.0453744	0.16860883	3.2450085	21	11 25.3	20.2
403748 2011 AH_{42}	16.5	X	352.80882	16.81161	53.48780	3.66020	0.1729407	0.17817743	3.1277660	21	—	—
403749 2011 AC_{56}	15.9	X	12.01555	18.85604	79.76618	15.18804	0.1262449	0.18923508	3.0047034	21	—	—
403750 2011 AQ_{62}	16.8	X	330.29963	320.69459	117.18227	10.05289	0.2358986	0.17503497	3.1650907	21	12 7.1	20.0
403751 2011 AF_{74}	16.0	X	298.43115	357.81260	92.30762	12.88982	0.1295368	0.16845394	3.2469974	21	11 4.8	20.3
403752 2011 AH_{79}	15.9	X	66.59105	107.30436	301.20993	11.09195	0.1495682	0.19063402	2.9899858	21	—	—
403753 2011 BS_{2}	16.2	X	97.59718	28.20802	318.60710	10.54750	0.1063663	0.18540955	3.0458930	21	—	—
403754 2011 BE_{6}	17.4	X	24.82778	301.59380	107.45063	2.57808	0.1848208	0.18214405	3.0821899	21	—	—
403755 2011 BZ_{9}	16.6	X	39.83418	279.34727	115.50544	5.69063	0.1512158	0.18113592	3.0936154	21	—	—
403756 2011 BV_{13}	16.5	X	24.90595	58.81810	322.29492	12.69429	0.1456187	0.17305800	3.1891499	21	12 23.4	20.8
403757 2011 BN_{28}	15.3	X	321.13417	267.20938	117.78633	8.45746	0.0849975	0.15291980	3.4633276	21	9 18.4	19.9
403758 2011 BG_{33}	16.5	X	41.27490	181.42726	207.19815	0.63063	0.1740705	0.17708101	3.1406634	21	—	—
403759 2011 BH_{58}	16.8	X	30.57655	317.71258	112.47210	2.36484	0.2093199	0.18596892	3.0397822	21	—	—
403760 2011 BY_{83}	16.1	X	322.61757	31.79347	55.90267	5.39545	0.1504332	0.17281807	3.1921009	21	12 4.6	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403761 2011 BR_{85}	15.8	X	8.68952	315.57106	112.05668	12.46030	0.1867954	0.18009465	3.1055284	21	—	—
403762 2011 BX_{136}	16.5	X	61.25119	341.22774	13.29483	3.73115	0.0784450	0.17331170	3.1860368	21	12 27.0	21.0
403763 2011 CE_{1}	15.6	X	0.35808	310.84891	126.50725	18.59278	0.2129727	0.17716702	3.1396468	21	—	—
403764 2011 CH_{5}	15.6	X	356.91602	291.65675	132.79370	9.49983	0.2026787	0.17564976	3.1577011	21	—	—
403765 2011 CE_{20}	15.8	X	59.32751	35.75047	336.60219	11.32811	0.0759015	0.17362344	3.1822220	21	—	—
403766 2011 DA_{3}	16.0	X	50.30820	82.51073	340.35311	11.65568	0.1562024	0.18438621	3.0571524	21	—	—
403767 2011 DP_{24}	17.6	X	265.18683	63.28644	167.28868	23.61478	0.0507970	0.37462256	1.9057829	21	—	—
403768 2011 DF_{26}	15.6	X	12.98292	71.12528	327.84386	8.89181	0.1043722	0.16866882	3.2442390	21	12 21.6	20.0
403769 2011 DL_{29}	16.5	X	51.38135	244.55401	152.10745	16.82271	0.2377725	0.18143833	3.0901770	21	—	—
403770 2011 EA_{2}	16.5	X	45.26139	240.37111	146.63732	17.07597	0.2004327	0.17720093	3.1392462	21	—	—
403771 2011 EV_{40}	17.6	X	17.43909	259.04758	164.64378	22.78908	0.1232717	0.36150350	1.9516160	21	—	—
403772 2011 EY_{50}	18.2	X	356.51686	66.53923	140.07863	23.39034	0.0952719	0.38961719	1.8565671	21	2 1.9	19.6
403773 2011 EA_{77}	15.5	X	77.81282	63.79201	355.04837	28.13860	0.2272978	0.19044982	2.9919133	21	2 12.2	19.5
403774 2011 FO_{94}	17.2	X	128.28641	147.69467	304.58330	1.00758	0.0328344	0.20250905	2.8719250	21	4 17.9	21.1
403775 2011 HS_{4}	21.0	X	166.08190	314.28100	117.49643	5.46356	0.6800074	1.08442608	0.9382878	21	5 14.4	20.4
403776 2011 OV_{48}	17.4	X	77.79859	302.80851	223.78043	5.37184	0.0414667	0.27812460	2.3243942	21	5 15.9	20.2
403777 2011 PD	18.4	X	79.82086	333.75004	307.76165	2.57625	0.1479671	0.31233430	2.1514087	21	11 18.8	21.3
403778 2011 QU_{35}	18.4	X	44.90248	245.93618	86.34673	4.23939	0.1412137	0.30995245	2.1624164	21	12 15.6	20.9
403779 2011 QX_{68}	19.5	X	72.52026	194.76204	138.58340	3.12929	0.2619922	0.31924784	2.1202354	21	—	—
403780 2011 QJ_{79}	18.3	X	334.74368	19.21824	6.86501	4.58287	0.1313888	0.30273682	2.1966417	21	11 2.3	19.8
403781 2011 RU_{17}	18.2	X	197.25855	261.35353	199.15398	4.92645	0.1405862	0.27992986	2.3143901	21	7 18.4	21.7
403782 2011 SL_{56}	18.3	X	318.75947	284.39386	154.13232	5.43559	0.1068193	0.30596332	2.1811715	21	12 24.9	20.1
403783 2011 SC_{84}	18.8	X	22.57319	296.12950	46.42888	0.80654	0.2001575	0.30488041	2.1863333	21	12 7.7	21.0
403784 2011 SJ_{132}	16.8	X	85.32267	229.53779	195.25125	7.20968	0.1728316	0.23296583	2.6158203	21	1 29.0	19.8
403785 2011 SK_{165}	18.1	X	27.55622	221.01439	77.23953	1.96097	0.1450092	0.29209002	2.2497015	21	9 29.9	20.2
403786 2011 SS_{166}	17.9	X	347.53032	9.51055	0.26382	6.00757	0.1656255	0.29900430	2.2148846	21	11 4.4	19.5
403787 2011 SE_{174}	18.2	X	321.95076	230.76456	174.26650	3.64397	0.1502827	0.29908555	2.2144834	21	11 7.7	19.7
403788 2011 SU_{178}	17.6	X	354.34530	3.73031	2.90536	6.72823	0.0928318	0.29848210	2.2174671	21	11 4.5	19.7
403789 2011 SL_{179}	17.4	X	205.17978	42.51826	10.06924	7.08184	0.0958790	0.26685594	2.3893776	21	5 24.1	21.0
403790 2011 SO_{184}	16.3	X	302.98057	332.00209	51.21896	12.17536	0.0570529	0.18301576	3.0723950	21	8 29.9	20.6
403791 2011 SY_{190}	17.6	X	218.44518	89.40674	356.48258	4.94328	0.1927857	0.27292708	2.3538112	21	7 19.4	21.3
403792 2011 SB_{195}	17.3	X	304.49766	292.58074	28.34906	6.18438	0.1235854	0.27027047	2.3692105	21	5 19.1	20.0
403793 2011 SG_{231}	18.3	X	293.62810	159.06615	231.79310	2.31551	0.1680827	0.28515626	2.2860239	21	8 8.3	20.6
403794 2011 SB_{232}	17.9	X	266.36604	25.32027	3.82463	7.77567	0.1178901	0.27813873	2.3243154	21	7 5.3	20.9
403795 2011 SR_{235}	16.0	X	300.32334	253.18461	288.27321	8.93554	0.0651712	0.22802099	2.6535025	21	—	—
403796 2011 SH_{249}	18.0	X	21.71873	254.95505	79.85559	6.05086	0.1839541	0.30040341	2.2080021	21	11 22.2	20.1
403797 2011 SX_{260}	17.9	X	208.11557	29.62216	42.08229	3.08315	0.1934354	0.27007787	2.3703368	21	6 19.6	21.7
403798 2011 UW_{5}	17.6	X	253.86484	344.12511	50.96943	3.31398	0.1733584	0.27368614	2.3494571	21	6 18.7	20.8
403799 2011 UR_{14}	17.3	X	179.45517	130.09418	351.66965	7.56730	0.0516355	0.27713091	2.3299472	21	8 2.5	20.5
403800 2011 UC_{24}	18.2	X	52.20225	88.06484	256.35778	1.98304	0.1893906	0.30951268	2.1644642	21	—	—
403801 2011 UG_{47}	17.3	X	27.75394	313.35616	11.24191	6.79307	0.1391939	0.29638322	2.2279237	21	11 5.4	19.6
403802 2011 UU_{48}	18.1	X	225.99799	189.61730	237.67658	1.78677	0.1904425	0.27279669	2.3545612	21	6 30.9	21.7
403803 2011 UH_{49}	18.2	X	220.39743	26.57597	39.94170	3.74017	0.1096279	0.27168203	2.3609970	21	6 30.6	21.5
403804 2011 UT_{54}	17.8	X	256.67951	148.95699	236.72594	5.69184	0.1193871	0.27062104	2.3671640	21	6 16.2	20.8
403805 2011 UC_{57}	18.0	X	352.02755	337.97980	49.64309	6.13278	0.1696807	0.30190106	2.2006938	21	12 16.1	19.8
403806 2011 UH_{64}	17.0	X	224.69052	357.49670	49.76324	7.54983	0.0844500	0.26694442	2.3888496	21	6 10.3	20.3
403807 2011 UE_{76}	17.3	X	316.12390	325.15147	333.06883	3.74071	0.0612212	0.26623804	2.3930732	21	5 14.3	20.2
403808 2011 UR_{101}	18.0	X	187.99388	307.66653	127.45072	3.45712	0.1056207	0.26315460	2.4117303	21	6 6.7	21.4
403809 2011 UU_{103}	17.7	X	274.18656	7.19025	44.93027	3.98276	0.1949410	0.28028853	2.3124153	21	8 6.8	20.4
403810 2011 UL_{114}	16.8	X	287.50852	334.54266	61.64477	6.38185	0.1261141	0.28125420	2.3071192	21	8 17.7	19.3
403811 2011 UX_{116}	17.9	X	163.93411	289.88671	167.88504	0.27628	0.1679040	0.26244238	2.4160917	21	6 12.9	21.7
403812 2011 UJ_{117}	17.3	X	202.05113	245.54122	195.48238	6.42610	0.0954462	0.27274291	2.3548707	21	6 29.5	20.7
403813 2011 UO_{117}	17.9	X	15.49033	13.80093	316.85150	4.25800	0.2176632	0.29541464	2.2327908	21	11 7.4	19.9
403814 2011 UJ_{124}	18.3	X	344.60598	330.93663	53.33137	4.11098	0.2355323	0.30043713	2.2078369	21	12 4.7	19.4
403815 2011 UA_{130}	17.8	X	104.00432	94.73510	134.90297	1.97083	0.1156534	0.29448390	2.2374929	21	10 3.4	20.7
403816 2011 UL_{133}	18.3	X	74.23124	3.84412	318.74205	2.15377	0.1854384	0.30852601	2.1690765	21	—	—
403817 2011 UR_{144}	17.0	X	17.51291	33.78180	271.93986	5.70940	0.1341766	0.28452984	2.2893780	21	9 14.9	19.2
403818 2011 UY_{144}	17.1	X	332.45303	23.42949	299.53690	8.44135	0.1733829	0.28119121	2.3074638	21	7 7.8	18.8
403819 2011 UD_{149}	16.1	X	299.49489	144.35538	219.84525	14.15789	0.0600339	0.17623534	3.1507023	21	7 19.9	20.7
403820 2011 UB_{159}	17.8	X	300.50854	216.05787	175.30660	6.48900	0.1147931	0.28766790	2.2726983	21	8 31.2	20.1
403821 2011 UN_{161}	17.1	X	323.22089	287.63043	28.18835	6.41403	0.1345796	0.27187100	2.3599028	21	6 10.9	19.5
403822 2011 UX_{161}	17.8	X	330.97928	311.34213	40.67149	6.05523	0.1841859	0.28490232	2.2873821	21	8 27.4	19.4
403823 2011 UD_{162}	18.2	X	333.70123	321.84878	47.39462	2.96604	0.2000583	0.28922133	2.2645531	21	10 2.9	19.5
403824 2011 UM_{164}	18.0	X	33.69939	276.70015	97.96429	4.84852	0.1600875	0.30931642	2.1653797	21	—	—
403825 2011 UY_{165}	17.0	X	273.70536	273.32034	92.78282	7.27193	0.1251130	0.27070699	2.3666629	21	6 10.2	20.0
403826 2011 UM_{179}	17.0	X	140.58065	219.85847	268.29114	8.86991	0.0599574	0.26279159	2.4139508	21	6 20.9	20.2
403827 2011 UC_{183}	18.0	X	28.37899	14.00085	325.07065	3.04740	0.2446091	0.29984738	2.2107309	21	12 17.0	20.5
403828 2011 UU_{185}	18.0	X	304.22138	222.71424	144.45356	5.94897	0.0856235	0.28135844	2.3065493	21	8 4.3	20.2
403829 2011 UT_{199}	17.0	X	202.16800	16.18331	318.26007	4.26282	0.2097956	0.24355982	2.5394069	21	2 14.9	21.4
403830 2011 UB_{210}	17.1	X	111.25105	273.19742	252.96461	5.53832	0.0684150	0.27141428	2.3625495	21	7 6.6	20.0
403831 2011 UA_{219}	17.6	X	262.44888	88.91916	162.89272	1.14273	0.1499636	0.24215150	2.5492432	21	—	—
403832 2011 UL_{237}	17.8	X	324.81767	286.89505	10.94012	2.24647	0.2084021	0.27127657	2.3633490	21	5 4.2	20.2
403833 2011 UD_{241}	17.9	X	32.21640	268.81253	16.56858	3.17366	0.1811141	0.29041040	2.2583674	21	9 23.9	19.8
403834 2011 UW_{244}	17.8	X	174.44842	175.24976	277.87896	1.61394	0.1845408	0.26348291	2.4097265	21	6 17.2	21.5
403835 2011 UW_{249}	18.3	X	40.38605	241.93149	61.83610	3.36887	0.1739598	0.29105663	2.2550234	21	11 2.1	20.6
403836 2011 UM_{251}	17.7	X	267.59417	260.38949	109.94430	4.58237	0.0996825	0.26845126	2.3799021	21	6 11.9	20.8
403837 2011 UR_{253}	17.7	X	325.53074	190.57434	117.91537	4.17803	0.1614963	0.26945061	2.3740139	21	6 1.3	20.0
403838 2011 UC_{254}	17.9	X	1.54333	357.97836	306.95934	3.30378	0.0831219	0.28324218	2.2963113	21	8 12.0	20.1
403839 2011 US_{263}	16.5	X	84.22797	217.72576	188.76995	14.53999	0.0352828	0.22934580	2.6432740	21	—	—
403840 2011 UW_{266}	17.6	X	210.08318	348.54600	119.66667	9.03739	0.2100389	0.27576797	2.3376178	21	8 8.3	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403841 2011 UC_{268}	17.8	X	253.92790	5.25201	37.28308	3.98531	0.0881689	0.27297405	2.3535412	21	7 11.7	20.9
403842 2011 UX_{269}	17.6	X	213.58527	38.30628	55.06052	6.86727	0.0895674	0.27496216	2.3421827	21	8 2.7	20.9
403843 2011 UF_{278}	18.0	X	345.06277	51.23715	269.41473	5.94646	0.2139183	0.28139972	2.3063238	21	7 30.6	19.4
403844 2011 UX_{282}	17.6	X	350.05495	247.21360	64.08840	9.79484	0.1404532	0.27973386	2.3154710	21	8 3.8	19.7
403845 2011 UG_{283}	17.6	X	73.26747	211.35340	84.19502	5.98284	0.1963764	0.30078106	2.2061535	21	12 4.4	20.6
403846 2011 UD_{297}	18.5	X	351.25554	274.96351	75.39255	2.02380	0.1853216	0.29315623	2.2442434	21	10 15.6	19.8
403847 2011 UG_{300}	17.1	X	288.88425	309.81966	77.55274	5.89363	0.0898156	0.27957343	2.3163568	21	8 11.6	19.7
403848 2011 UX_{300}	17.5	X	167.74456	67.83581	32.68590	5.47880	0.0892379	0.26616221	2.3935277	21	6 17.2	20.9
403849 2011 UX_{301}	17.7	X	246.63398	50.65710	34.86901	4.15083	0.1270833	0.28344554	2.2952128	21	8 28.5	20.6
403850 2011 UK_{310}	17.4	X	176.32471	27.07382	52.84398	2.07718	0.1725127	0.26241075	2.4162858	21	6 1.4	21.2
403851 2011 UX_{313}	18.0	X	350.05019	223.61001	81.23113	3.48698	0.1962151	0.28035523	2.3120485	21	7 18.6	19.3
403852 2011 UM_{314}	17.9	X	255.43912	339.20593	64.43305	5.75610	0.1416024	0.27600406	2.3362845	21	7 7.2	20.9
403853 2011 UN_{315}	16.6	X	112.41293	187.00355	138.07082	4.31678	0.0856765	0.21473979	2.7618136	21	—	—
403854 2011 UD_{318}	17.6	X	284.53590	283.10445	60.23830	9.42378	0.1343960	0.26822721	2.3812271	21	5 21.8	20.6
403855 2011 UZ_{318}	17.9	X	189.43072	9.35508	72.99546	2.44818	0.1535958	0.26365984	2.4086483	21	6 17.1	21.5
403856 2011 UE_{341}	17.9	X	198.74580	41.39540	23.64715	2.70652	0.1742268	0.26489256	2.4011698	21	6 2.6	21.8
403857 2011 UL_{341}	18.8	X	48.69284	22.69849	273.56440	1.24216	0.2032366	0.29993120	2.2103190	21	11 7.9	21.4
403858 2011 UD_{344}	16.9	X	93.25510	147.58461	227.65397	5.52450	0.0210121	0.22510668	2.6763555	21	—	—
403859 2011 UY_{357}	17.4	X	96.05026	337.37647	234.91425	6.37618	0.0644583	0.27701090	2.3306200	21	8 18.1	20.5
403860 2011 UR_{382}	17.1	X	59.20475	83.58496	41.57483	2.76372	0.1484478	0.23470725	2.6028654	21	3 8.7	19.7
403861 2011 UT_{385}	16.6	X	96.10074	81.63581	12.66053	5.87909	0.2171619	0.23904747	2.5712637	21	4 2.9	19.9
403862 2011 UT_{389}	17.8	X	306.46116	46.86694	334.81241	6.01988	0.1729780	0.28599052	2.2815761	21	8 19.3	19.7
403863 2011 UU_{389}	17.1	X	190.66089	37.25305	64.48262	4.86461	0.1142394	0.27099905	2.3649622	21	7 15.7	20.5
403864 2011 VQ_{11}	17.5	X	184.49544	17.18790	62.90673	7.84558	0.0427857	0.26161183	2.4212026	21	6 8.4	20.7
403865 2011 VO_{13}	16.6	X	224.13595	204.85691	60.38042	15.35888	0.2331142	0.23060758	2.6336233	21	—	—
403866 2011 VK_{16}	17.4	X	46.01267	191.64989	47.75207	6.66463	0.0795023	0.27385926	2.3484668	21	7 21.4	20.0
403867 2011 VA_{19}	18.1	X	277.05615	100.12471	324.34591	4.96876	0.2307871	0.28553517	2.2840011	21	8 21.6	20.7
403868 2011 WN_{16}	17.4	X	220.50928	299.02176	94.31363	7.56997	0.1242874	0.25980655	2.4324056	21	5 17.8	21.0
403869 2011 WH_{19}	18.1	X	212.98858	349.74995	72.10791	2.46068	0.1712425	0.26466136	2.4025680	21	6 12.4	21.9
403870 2011 WX_{24}	17.6	X	233.48901	219.24707	203.92421	4.50203	0.1240284	0.27339059	2.3511500	21	7 8.8	20.9
403871 2011 WU_{25}	17.2	X	156.63311	162.70084	122.23545	1.39698	0.0434897	0.21421395	2.7663314	21	—	—
403872 2011 WJ_{35}	17.0	X	311.72711	297.84194	249.26015	2.16772	0.0966052	0.22468814	2.6796780	21	—	—
403873 2011 WN_{37}	17.9	X	165.39009	223.40720	227.18397	0.63697	0.1558243	0.25994254	2.4315571	21	6 4.6	21.8
403874 2011 WD_{47}	16.9	X	50.40355	81.44322	32.14349	3.86306	0.1580553	0.23027912	2.6361271	21	2 5.9	19.5
403875 2011 WP_{62}	17.0	X	129.38662	343.66142	22.48496	7.96802	0.1089149	0.23062875	2.6334622	21	1 8.4	20.7
403876 2011 WH_{66}	18.0	X	283.46335	350.81313	22.54749	1.98251	0.1946821	0.27477700	2.3432347	21	6 22.6	20.9
403877 2011 WN_{66}	17.2	X	118.56007	49.65874	47.61651	0.68363	0.1457907	0.24430165	2.5342636	21	4 24.3	20.7
403878 2011 WH_{72}	17.3	X	285.18022	352.48600	47.29113	6.13315	0.1611191	0.27971893	2.3155534	21	8 12.8	19.9
403879 2011 WN_{72}	17.3	X	248.60320	346.71463	70.58622	6.74322	0.1076030	0.27238943	2.3569075	21	7 23.5	20.5
403880 2011 WV_{82}	17.7	X	349.26925	255.49992	71.58051	6.54537	0.2261048	0.28441651	2.2899861	21	9 2.2	19.0
403881 2011 WF_{85}	18.3	X	228.63892	242.14233	168.58874	1.54553	0.1381638	0.26668573	2.3903942	21	6 15.9	21.6
403882 2011 WV_{90}	17.2	X	210.62276	313.44033	81.13430	7.76987	0.1303569	0.25728250	2.4482883	21	5 9.2	20.9
403883 2011 WU_{96}	17.6	X	31.44428	163.76659	150.00569	2.85005	0.1867545	0.28996089	2.2607009	21	11 5.6	19.9
403884 2011 WD_{105}	16.0	X	209.96768	46.03435	95.74535	12.55963	0.0754896	0.18230706	3.0803523	21	9 30.5	20.8
403885 2011 WB_{106}	18.1	X	205.85840	2.89488	53.95482	4.23493	0.0700079	0.26247568	2.4158873	21	6 2.3	21.5
403886 2011 WW_{114}	17.4	X	288.94695	283.54554	105.26798	5.06845	0.2034025	0.28043117	2.3116311	21	7 22.8	19.9
403887 2011 WO_{116}	17.0	X	82.40743	85.90561	30.40725	4.91222	0.1263982	0.23916965	2.5703879	21	3 30.7	19.9
403888 2011 WP_{116}	17.9	X	216.16125	345.26445	68.95252	2.60591	0.1818880	0.26404413	2.4063107	21	6 4.9	21.8
403889 2011 WU_{117}	17.7	X	216.37276	345.77144	82.11213	7.70734	0.1436628	0.26965916	2.3727898	21	6 25.3	21.1
403890 2011 WO_{124}	17.7	X	278.36083	250.76986	99.48745	2.63982	0.0532287	0.26724948	2.3870314	21	6 5.6	20.4
403891 2011 WM_{131}	17.7	X	299.07991	281.71797	77.95110	8.08771	0.0964713	0.27395344	2.3479286	21	7 14.2	20.4
403892 2011 WC_{142}	17.9	X	7.42445	72.24677	244.40915	5.57783	0.1529294	0.28501971	2.2867541	21	9 15.3	19.9
403893 2011 WX_{144}	17.0	X	167.82932	10.10398	7.46766	3.50546	0.0230698	0.23775830	2.5805499	21	2 25.9	20.3
403894 2011 WG_{152}	17.7	X	318.86787	47.96885	301.37948	7.78442	0.1936534	0.28259721	2.2998039	21	7 18.6	19.4
403895 2011 WS_{152}	17.4	X	83.29124	337.31402	147.63069	8.50019	0.0919295	0.24414422	2.5353529	21	4 9.0	20.5
403896 2011 WR_{153}	16.5	X	266.49057	287.37227	168.88841	9.38338	0.1325962	0.18569857	3.0427318	21	9 27.2	20.6
403897 2011 YX	15.8	X	20.13443	254.47078	98.10296	16.93569	0.0466597	0.18243033	3.0789645	21	11 7.6	20.2
403898 2011 YL_{2}	15.9	X	109.33936	140.75833	283.86874	21.22402	0.0394871	0.22814866	2.6525125	21	2 7.0	19.7
403899 2011 YL_{7}	16.2	X	46.27016	334.69849	105.20339	14.84162	0.1661712	0.21324179	2.7747328	21	—	—
403900 2011 YC_{14}	17.3	X	97.77057	73.96848	16.82572	3.48671	0.1363192	0.23343529	2.6123120	21	3 20.4	20.5
403901 2011 YQ_{17}	16.4	X	267.28758	246.39237	275.10671	9.79760	0.0785169	0.19330685	2.9623604	21	12 26.3	20.3
403902 2011 YU_{22}	17.3	X	111.96798	24.81065	55.36853	3.62609	0.1427802	0.23383312	2.6093482	21	3 26.9	20.9
403903 2011 YV_{24}	15.8	X	170.12759	109.45082	104.06300	12.14244	0.0831485	0.17864478	3.1223087	21	11 10.8	20.8
403904 2011 YJ_{36}	15.9	X	230.10662	58.09644	108.79148	10.73164	0.1119147	0.18164079	3.0878804	21	11 14.7	20.6
403905 2011 YD_{38}	15.9	X	289.54694	201.63783	298.54913	10.80222	0.0209036	0.19152848	2.9806694	21	—	—
403906 2011 YO_{40}	17.3	X	140.58467	168.67664	264.35412	2.24358	0.1151647	0.24105149	2.5569927	21	4 13.5	21.0
403907 2011 YT_{42}	18.1	X	343.48627	45.72663	323.99396	5.10416	0.1959303	0.28677337	2.2774220	21	10 24.7	19.6
403908 2011 YO_{44}	18.2	X	267.05501	226.13034	187.03489	2.00128	0.1852543	0.27233825	2.3572029	21	7 28.3	21.1
403909 2011 YQ_{45}	17.7	X	139.74731	253.26603	183.13778	3.34014	0.1804425	0.24085365	2.5583928	21	4 25.3	21.7
403910 2011 YQ_{46}	16.7	X	106.96130	266.81098	88.59101	7.95990	0.0575685	0.20531557	2.8456935	21	—	—
403911 2011 YX_{47}	16.9	X	12.12329	188.22021	2.58398	3.25867	0.0960069	0.24041588	2.5614976	21	3 13.2	19.7
403912 2011 YD_{51}	17.3	X	196.35081	352.27131	105.96328	3.73555	0.1379248	0.26386283	2.4074128	21	7 15.6	20.7
403913 2011 YQ_{56}	13.9	X	8.99979	292.03477	99.90448	5.52097	0.0382306	0.08354584	5.1822635	21	11 17.4	20.6
403914 2011 YR_{59}	16.5	X	313.08824	34.61568	118.04447	13.12854	0.0777488	0.20304265	2.8668911	21	—	—
403915 2011 YS_{59}	16.1	X	76.10389	311.00076	116.78935	15.85146	0.0750620	0.21731567	2.7399461	21	1 12.1	19.5
403916 2011 YE_{60}	16.5	X	215.20231	24.33317	274.37106	7.17936	0.0838363	0.21655128	2.7463900	21	1 17.0	20.6
403917 2011 YJ_{64}	16.8	X	220.92162	308.26574	108.95494	13.65983	0.1854171	0.25972970	2.4328854	21	6 14.6	20.8
403918 2011 YL_{67}	17.3	X	143.07768	63.58246	336.85772	5.53281	0.0605992	0.22791114	2.6543551	21	3 1.5	20.9
403919 2011 YH_{68}	15.9	X	267.35379	93.69473	111.81730	13.57078	0.0431931	0.20299976	2.8672949	21	—	—
403920 2011 YB_{75}	15.6	X	234.76975	65.52184	94.70873	15.83262	0.1239703	0.18071763	3.0983872	21	11 12.1	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
403921 2012 AC_{7}	16.6	X	82.85016	175.52879	285.40714	11.88148	0.2398810	0.22903518	2.6456634	21	3 21.8	20.0
403922 2012 AF_{8}	17.6	X	260.98580	261.58604	113.00758	3.21981	0.2017034	0.26067334	2.4270104	21	5 27.6	21.0
403923 2012 AK_{9}	16.7	X	214.53039	213.62020	135.09196	14.87861	0.1827125	0.23529641	2.5985187	21	3 19.0	21.1
403924 2012 AG_{13}	16.9	X	257.05183	287.23021	104.96083	14.07953	0.2185812	0.26455347	2.4032212	21	6 14.4	20.6
403925 2012 AV_{13}	15.9	X	267.16795	163.59028	328.51246	8.94862	0.0314764	0.18307232	3.0717622	21	11 21.9	20.4
403926 2012 AY_{16}	15.5	X	206.49865	213.02926	305.04931	16.19451	0.1656311	0.17511676	3.1641051	21	9 23.9	20.9
403927 2012 AP_{17}	17.5	X	168.38304	263.05606	226.15168	1.18545	0.1220038	0.25778095	2.4451312	21	7 27.4	21.1
403928 2012 AE_{20}	16.2	X	250.18584	306.06888	304.82009	12.16756	0.1256969	0.21154902	2.7895150	21	—	—
403929 2012 BX_{3}	17.9	X	304.19428	291.86678	113.28653	6.35022	0.1758682	0.28130895	2.3068199	21	9 24.5	19.9
403930 2012 BT_{9}	16.9	X	110.83723	270.20032	152.08037	13.23953	0.2140622	0.22404763	2.6847827	21	3 14.2	20.6
403931 2012 BY_{11}	17.0	X	280.42033	235.29786	348.13067	3.01892	0.0381619	0.21195712	2.7859332	21	1 1.8	20.9
403932 2012 BY_{15}	17.2	X	222.33904	308.53463	125.20056	3.30966	0.1868617	0.26227393	2.4171261	21	7 6.1	20.8
403933 2012 BZ_{15}	16.9	X	279.05072	243.23041	127.19661	3.65865	0.1770859	0.26129273	2.4231734	21	6 15.6	19.9
403934 2012 BN_{17}	16.3	X	108.76277	97.65476	325.60769	16.54642	0.1223790	0.22474959	2.6791896	21	2 23.6	20.0
403935 2012 BR_{18}	16.4	X	153.51775	129.65383	151.80756	12.91269	0.1056088	0.18628995	3.0362890	21	—	—
403936 2012 BE_{20}	16.5	X	198.50202	110.34256	77.43464	12.09825	0.0935526	0.18042705	3.1017131	21	11 7.7	21.3
403937 2012 BH_{20}	16.4	X	125.53150	303.95334	112.95297	14.74825	0.0562889	0.22707323	2.6608808	21	3 5.5	20.2
403938 2012 BS_{20}	15.6	X	155.69446	288.38445	301.62159	9.87881	0.0587977	0.17794312	3.1305111	21	11 8.2	20.5
403939 2012 BD_{21}	16.0	X	36.43505	139.39805	325.51312	15.93627	0.2482948	0.21325952	2.7745790	21	1 3.2	18.6
403940 2012 BH_{25}	15.3	X	143.12452	317.94560	291.04880	12.51901	0.0770152	0.17971999	3.1098430	21	11 19.2	20.3
403941 2012 BY_{25}	16.9	X	40.87901	139.30956	304.06004	3.29324	0.0391891	0.21206643	2.7849759	21	—	—
403942 2012 BB_{28}	15.8	X	272.96504	342.89568	144.23487	11.93715	0.0360783	0.17822820	3.1271720	21	11 26.9	20.3
403943 2012 BJ_{28}	16.1	X	338.93465	19.20472	137.62225	6.72012	0.0639321	0.21071215	2.7968961	21	—	—
403944 2012 BW_{28}	16.1	X	9.35461	242.71693	114.48317	17.31364	0.0894738	0.18087886	3.0965457	21	11 3.1	20.4
403945 2012 BW_{30}	16.8	X	65.92681	282.86559	133.77051	9.67439	0.0403046	0.21166570	2.7884897	21	—	—
403946 2012 BU_{31}	16.8	X	317.27473	240.59151	326.31507	8.16310	0.0873597	0.21860101	2.7291953	21	1 18.9	20.4
403947 2012 BN_{33}	16.3	X	25.25758	28.77829	92.57273	9.89203	0.0725366	0.21596119	2.7513906	21	1 6.1	19.5
403948 2012 BD_{35}	16.5	X	60.72389	344.40406	101.92554	6.65642	0.0538061	0.21566067	2.7539460	21	1 12.7	20.0
403949 2012 BS_{37}	17.2	X	68.35443	0.32041	69.22384	1.60738	0.0553827	0.21405575	2.7676943	21	1 2.4	20.7
403950 2012 BF_{39}	16.5	X	47.88548	75.30158	313.11506	8.15482	0.0334740	0.19605059	2.9346565	21	—	—
403951 2012 BV_{39}	17.3	X	71.02042	65.99163	29.86660	2.55585	0.1858574	0.22391914	2.6858097	21	2 23.9	20.2
403952 2012 BA_{45}	17.5	X	278.50623	280.10296	78.93813	1.78039	0.2287845	0.26102535	2.4248279	21	5 22.5	20.9
403953 2012 BP_{47}	15.2	X	216.10899	177.21202	346.69281	17.28093	0.1520098	0.17399368	3.1777061	21	10 12.6	20.5
403954 2012 BL_{48}	16.5	X	58.59161	350.13186	123.95313	14.68336	0.0154004	0.22383961	2.6864458	21	2 11.0	20.0
403955 2012 BP_{48}	16.4	X	147.25178	96.69142	125.45560	5.64958	0.1065775	0.17348503	3.1839143	21	10 27.2	21.4
403956 2012 BC_{52}	17.0	X	131.43017	119.05321	309.71420	16.67809	0.2092884	0.23296846	2.6158006	21	3 31.5	21.4
403957 2012 BE_{52}	16.7	X	136.07334	91.87530	295.56785	4.90999	0.0855413	0.21825415	2.7320861	21	2 8.9	20.5
403958 2012 BC_{53}	15.7	X	182.46222	296.09532	329.76413	8.14475	0.0708891	0.19038000	2.9926448	21	—	—
403959 2012 BD_{53}	16.2	X	268.00130	7.73182	139.93053	11.49839	0.0425444	0.18318743	3.0704753	21	12 14.2	20.6
403960 2012 BH_{55}	16.0	X	246.47918	136.87428	7.22461	7.64704	0.0688722	0.17424223	3.1746835	21	11 4.9	20.5
403961 2012 BJ_{55}	16.7	X	74.81571	75.52068	8.58529	6.03773	0.1439245	0.21530391	2.7569874	21	2 11.6	19.9
403962 2012 BN_{56}	17.4	X	155.84526	45.50438	358.45618	5.36436	0.1190532	0.22746885	2.6577947	21	3 26.3	21.5
403963 2012 BX_{56}	16.0	X	45.52475	143.90484	318.27701	10.91510	0.1590869	0.21479580	2.7613335	21	1 16.2	18.8
403964 2012 BR_{59}	16.5	X	311.91527	263.77633	323.63897	8.96839	0.0815455	0.22230624	2.6987850	21	2 6.2	19.9
403965 2012 BA_{68}	17.5	X	184.48269	178.63920	205.59140	1.87584	0.0663568	0.23535803	2.5980651	21	3 28.3	21.1
403966 2012 BC_{74}	15.8	X	178.36637	119.70701	130.67880	14.08322	0.1335920	0.18690592	3.0296144	21	12 26.9	20.7
403967 2012 BA_{75}	16.6	X	311.30228	351.42882	133.87226	8.41550	0.2100322	0.19223225	2.9733901	21	—	—
403968 2012 BA_{78}	16.5	X	190.78078	2.47637	282.10197	5.80002	0.0330291	0.20712111	2.8291315	21	—	—
403969 2012 BT_{78}	15.4	X	164.82400	288.80635	328.94252	15.41769	0.0634961	0.18476955	3.0529226	21	12 26.0	20.2
403970 2012 BY_{78}	16.6	X	86.38837	18.24110	27.65804	6.25417	0.0369422	0.21187873	2.7866204	21	—	—
403971 2012 BJ_{80}	17.5	X	175.31442	295.09120	72.48073	3.12739	0.0984267	0.22794093	2.6541237	21	3 1.9	21.4
403972 2012 BQ_{83}	17.7	X	9.13992	277.45967	97.68577	4.93671	0.1978117	0.28959684	2.2625951	21	12 29.4	20.0
403973 2012 BV_{83}	17.3	X	46.68725	78.16955	356.24236	3.97766	0.0503407	0.20811801	2.8200898	21	—	—
403974 2012 BU_{87}	17.0	X	119.54222	354.51709	99.41481	13.33944	0.2023967	0.23588058	2.5942267	21	5 4.4	21.1
403975 2012 BV_{87}	16.3	X	304.41595	39.25707	84.66608	6.44322	0.2038532	0.19106109	2.9855284	21	12 20.5	19.5
403976 2012 BJ_{93}	17.0	X	279.50541	115.14693	38.66594	3.36153	0.0944099	0.19142735	2.9817191	21	12 31.1	20.9
403977 2012 BX_{93}	17.2	X	242.47258	36.37383	347.47412	1.91610	0.2122425	0.25464046	2.4651941	21	5 19.2	21.0
403978 2012 BO_{100}	17.2	X	146.14680	278.90765	125.46393	7.11553	0.0542942	0.22779457	2.6552605	21	3 12.1	20.9
403979 2012 BR_{103}	15.7	X	226.48673	62.53464	86.78118	11.86377	0.0987005	0.17433577	3.1735478	21	10 23.2	20.6
403980 2012 BX_{103}	16.2	X	176.93250	84.22947	111.70721	16.26678	0.1469630	0.17201133	3.2020739	21	10 28.3	21.7
403981 2012 BY_{103}	17.1	X	123.08778	85.51407	326.57739	11.41204	0.1701639	0.22837278	2.6507768	21	3 4.7	21.0
403982 2012 BL_{104}	15.6	X	328.49332	275.60782	115.40117	15.39603	0.0910270	0.17459893	3.1703582	21	10 13.6	19.9
403983 2012 BP_{105}	15.6	X	218.36049	73.21413	101.06947	16.84555	0.2043698	0.17561827	3.1580785	21	11 5.0	20.9
403984 2012 BR_{106}	15.6	X	215.26023	56.45246	116.24681	17.71613	0.0763500	0.17816883	3.1278666	21	11 12.2	20.5
403985 2012 BG_{109}	16.7	X	149.59118	319.27748	328.59345	7.17598	0.0951360	0.19101278	2.9860319	21	—	—
403986 2012 BO_{109}	15.7	X	105.57781	182.18135	126.12604	16.44847	0.1001606	0.18482512	3.0523105	21	12 25.8	20.5
403987 2012 BD_{111}	16.8	X	132.12994	75.52709	311.27887	8.50841	0.0431403	0.21598798	2.7511630	21	1 30.2	20.5
403988 2012 BW_{113}	16.4	X	245.10851	23.31736	133.05685	4.85992	0.0706927	0.18244862	3.0787587	21	11 22.5	20.7
403989 2012 BR_{115}	16.6	X	28.05134	336.03458	132.22281	14.60509	0.0467578	0.21132777	2.7914617	21	—	—
403990 2012 BK_{120}	16.9	X	247.55458	104.87041	162.15802	2.99162	0.0268085	0.21496772	2.7598610	21	1 16.4	20.7
403991 2012 BJ_{122}	16.6	X	284.20800	68.53810	87.77516	2.39040	0.0361559	0.18791474	3.0187616	21	—	—
403992 2012 BS_{122}	16.8	X	35.38256	130.76881	342.32819	4.67609	0.0151309	0.21331571	2.7740918	21	1 12.4	20.5
403993 2012 BL_{124}	16.9	X	84.96428	359.65985	138.83608	9.80456	0.0342478	0.23706991	2.5855430	21	4 23.3	20.4
403994 2012 BD_{128}	16.8	X	148.64075	269.95911	129.24466	10.27260	0.1054888	0.22665761	2.6641326	21	3 15.1	20.8
403995 2012 BQ_{130}	15.5	X	50.50667	241.62392	87.43016	11.12146	0.0908916	0.17552106	3.1592444	21	11 18.2	19.9
403996 2012 BU_{130}	15.6	X	214.48951	69.46398	120.51239	23.30628	0.0380254	0.18047423	3.1011725	21	12 5.4	20.4
403997 2012 BX_{131}	15.5	X	306.83037	255.19638	150.61378	17.15236	0.1025098	0.17230437	3.1984423	21	9 23.9	19.7
403998 2012 BD_{132}	16.5	X	25.73247	134.71747	341.39345	7.35680	0.1761748	0.21294473	2.7773127	21	—	—
403999 2012 BR_{136}	16.0	X	202.42766	260.39315	315.99175	10.94330	0.1479950	0.18182625	3.0857803	21	12 6.9	21.0
404000 2012 BH_{137}	16.9	X	354.15676	154.94177	300.39585	1.01260	0.0662858	0.19701410	2.9250807	21	—	—