Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440001 2002 CS_{149}	17.7	X	142.09094	317.24080	113.72594	3.89707	0.1772419	0.26672536	2.3901575	21	4 19.6	21.2
440002 2002 CJ_{191}	17.8	X	235.95926	260.06614	138.47121	7.04837	0.2817368	0.27794148	2.3254150	21	5 28.6	21.8
440003 2002 DE_{15}	16.0	X	261.42966	179.40292	313.59899	9.71959	0.0515887	0.18794267	3.0184625	21	11 13.3	20.3
440004 2002 EQ_{53}	15.6	X	101.48453	246.41315	340.57990	16.04623	0.1830881	0.17447245	3.1718902	21	9 19.1	20.6
440005 2002 ER_{62}	16.2	X	219.84086	157.89969	338.82483	11.63825	0.1567149	0.18091395	3.0961454	21	9 18.4	21.1
440006 2002 EU_{113}	17.7	X	63.19905	105.20191	12.08171	3.07097	0.1468063	0.25825567	2.4421339	21	2 26.7	19.9
440007 2002 GS_{174}	17.3	X	207.04203	120.56447	133.90732	5.64544	0.2406023	0.23982988	2.5656684	21	—	—
440008 2002 HT_{10}	17.2	X	185.50589	63.42727	155.93635	13.75584	0.2348104	0.23309290	2.6148695	21	11 30.0	21.9
440009 2002 JP_{2}	16.4	X	190.40626	103.21986	153.18025	28.48854	0.3605183	0.23452907	2.6041836	21	—	—
440010 2002 JZ_{144}	17.2	X	222.41231	111.22712	121.01425	12.57026	0.2084099	0.23760641	2.5816495	21	—	—
440011 2002 KL_{16}	16.7	X	222.94069	282.99284	299.13466	14.77954	0.2507463	0.23329422	2.6133649	21	—	—
440012 2002 LE_{27}	19.3	X	310.76753	83.67754	226.22080	3.09863	0.4545184	0.30639043	2.1791439	21	3 18.0	22.4
440013 2002 LF_{36}	16.8	X	163.14024	154.94318	122.65199	14.73784	0.2399950	0.23024831	2.6363622	21	—	—
440014 2002 LE_{48}	16.1	X	150.27941	59.32748	288.67548	30.34574	0.2199876	0.23414527	2.6070286	21	1 17.4	20.1
440015 2002 MK_{6}	17.4	X	163.67493	103.13180	171.74843	11.43031	0.2893167	0.22995636	2.6385932	21	—	—
440016 2002 NR_{1}	17.0	X	109.71238	168.37625	194.02463	12.61909	0.3017360	0.22787406	2.6546430	21	1 4.9	20.7
440017 2002 NP_{7}	16.4	X	141.79919	86.68255	267.88743	26.31442	0.4289355	0.23226564	2.6210748	21	1 29.6	21.4
440018 2002 NP_{58}	17.7	X	134.80171	115.28689	220.61930	4.76644	0.3304625	0.22957466	2.6415171	21	1 3.6	21.9
440019 2002 NG_{69}	18.1	X	279.78512	73.30466	263.93127	5.87061	0.1900728	0.30366271	2.1921743	21	4 24.1	21.2
440020 2002 NO_{73}	19.1	X	287.46387	314.97783	3.21892	4.08802	0.1704660	0.30352724	2.1928265	21	4 10.8	21.8
440021 2002 OL_{12}	16.6	X	149.34767	71.23609	284.81867	25.50324	0.3381231	0.23199358	2.6231235	21	1 31.9	21.4
440022 2002 OZ_{16}	17.3	X	121.90067	105.91197	264.76999	8.43767	0.4086267	0.22941935	2.6427090	21	2 8.3	21.6
440023 2002 OZ_{17}	17.4	X	124.19672	197.93721	142.79870	13.59570	0.2739517	0.22882865	2.6472550	21	—	—
440024 2002 OS_{25}	18.0	X	313.46567	22.60103	275.36753	5.22543	0.1927879	0.30368488	2.1920676	21	4 11.8	20.5
440025 2002 OF_{27}	18.7	X	323.30835	131.00421	150.46978	2.45652	0.1515135	0.30366808	2.1921484	21	4 14.2	20.9
440026 2002 PP_{1}	16.9	X	144.31600	2.42975	325.54107	12.10292	0.3111534	0.23099238	2.6306977	21	1 2.6	21.2
440027 2002 PP_{7}	17.3	X	111.82908	52.64973	316.27122	12.59528	0.2847382	0.22859817	2.6490341	21	1 16.4	20.8
440028 2002 PG_{19}	18.1	X	136.52798	158.92083	153.22601	7.33640	0.2810279	0.22827089	2.6515655	21	—	—
440029 2002 PT_{25}	17.1	X	90.94732	73.99290	303.54177	15.42861	0.2442269	0.22702811	2.6612333	21	—	—
440030 2002 PB_{43}	17.0	X	84.44059	86.87088	274.33220	6.90067	0.2690544	0.22403192	2.6849083	21	—	—
440031 2002 PM_{93}	15.6	X	55.08242	96.04429	281.66714	15.40670	0.2036665	0.22011688	2.7166508	21	—	—
440032 2002 PO_{108}	17.9	X	296.71921	21.77475	342.87206	7.79690	0.1979305	0.30844690	2.1694473	21	6 29.9	20.2
440033 2002 PZ_{121}	16.6	X	97.04432	104.03614	301.15254	10.31981	0.3034986	0.22925135	2.6440000	21	2 11.5	19.9
440034 2002 PW_{122}	17.3	X	126.17618	94.07848	224.21236	5.23336	0.1453677	0.22674116	2.6634781	21	—	—
440035 2002 PV_{139}	16.8	X	128.02191	349.95148	347.66567	13.80256	0.2699579	0.22809167	2.6529543	21	—	—
440036 2002 PX_{141}	17.1	X	141.55899	354.11014	323.23623	11.88317	0.2640572	0.22819212	2.6521757	21	—	—
440037 2002 PF_{142}	16.7	X	109.85067	76.26441	316.67459	14.59210	0.2513573	0.22946500	2.6423586	21	2 6.4	20.0
440038 2002 PX_{151}	17.1	X	81.53006	235.51417	102.91399	5.38652	0.2640305	0.22251797	2.6970727	21	—	—
440039 2002 PL_{158}	17.0	X	172.91002	146.29945	133.46674	14.77979	0.2549025	0.23047598	2.6346258	21	—	—
440040 2002 PX_{183}	17.2	X	119.69412	239.22559	140.62305	14.03042	0.2845127	0.23181988	2.6244337	21	2 5.4	20.8
440041 2002 QN_{15}	16.5	X	165.26488	331.43512	331.74181	13.35107	0.0886076	0.22943455	2.6425924	21	—	—
440042 2002 QW_{18}	16.9	X	118.81336	333.50951	60.34976	3.64413	0.1975573	0.23224206	2.6212521	21	2 11.9	20.5
440043 2002 QF_{24}	17.3	X	278.87706	46.79858	320.88177	27.81632	0.2701394	0.30635325	2.1793203	21	5 19.8	21.1
440044 2002 QM_{56}	17.5	X	139.61488	192.32188	113.98741	5.34995	0.1511790	0.22624525	2.6673688	21	—	—
440045 2002 QR_{69}	18.4	X	318.04845	296.81155	155.50275	23.87360	0.0957149	0.37607307	1.9008794	21	—	—
440046 2002 QY_{78}	18.3	X	272.49273	350.72645	350.26439	1.59756	0.1563508	0.30133212	2.2034630	21	4 26.7	21.0
440047 2002 QZ_{80}	17.5	X	48.06142	258.30840	140.52816	14.83288	0.2095696	0.22223440	2.6993666	21	—	—
440048 2002 QX_{107}	16.4	X	340.34992	237.24218	154.69761	16.63915	0.2736578	0.21179295	2.7873728	21	11 12.8	19.0
440049 2002 QH_{112}	17.1	X	91.49367	95.67436	313.82728	10.30554	0.3031693	0.22935756	2.6431837	21	2 10.6	20.1
440050 2002 QU_{113}	17.1	X	162.77571	354.00555	302.34600	11.40628	0.1737660	0.22872573	2.6480491	21	—	—
440051 2002 QZ_{119}	18.6	X	234.52069	291.43814	33.44362	1.97237	0.1802923	0.29420238	2.2389201	21	2 25.9	21.9
440052 2002 QL_{139}	17.3	X	106.27549	27.62018	346.92026	4.57926	0.2433645	0.23016359	2.6370092	21	1 8.9	20.5
440053 2002 QL_{140}	16.9	X	145.10759	343.49539	359.85892	14.13425	0.0767365	0.23051955	2.6342938	21	—	—
440054 2002 RY_{16}	17.0	X	145.03154	218.41184	170.44168	13.46301	0.2449419	0.23427005	2.6061028	21	3 7.8	21.0
440055 2002 RE_{34}	16.4	X	130.46702	8.87010	4.84461	8.16792	0.1957267	0.23036449	2.6354757	21	2 1.3	20.2
440056 2002 RM_{57}	16.7	X	81.07067	80.34464	311.40298	3.37631	0.3203946	0.22388502	2.6860826	21	1 5.2	19.2
440057 2002 RL_{70}	16.7	X	73.72432	146.46177	260.70255	7.40080	0.2865229	0.22582223	2.6706989	21	1 4.2	19.0
440058 2002 RM_{70}	16.9	X	151.12379	62.48284	252.05861	6.49212	0.2153584	0.22889252	2.6467626	21	—	—
440059 2002 RX_{99}	17.0	X	82.51455	209.78207	184.41567	4.90514	0.3181883	0.22320644	2.6915239	21	1 10.1	19.7
440060 2002 RH_{103}	17.8	X	310.28418	339.31242	0.80896	5.55647	0.2237295	0.30517567	2.1849229	21	6 7.6	19.8
440061 2002 RB_{111}	17.1	X	42.71330	85.09191	329.44498	8.34402	0.2580210	0.22086746	2.7104926	21	—	—
440062 2002 RO_{112}	18.1	X	71.24114	9.56880	334.76372	14.89907	0.1018538	0.37668522	1.8988194	21	—	—
440063 2002 RQ_{116}	16.8	X	43.99673	172.61340	196.34519	7.34513	0.2838343	0.21777409	2.7360997	21	—	—
440064 2002 RW_{184}	17.7	X	271.26639	73.01996	289.98155	5.98079	0.1773202	0.30252187	2.1976821	21	5 23.0	20.7
440065 2002 RC_{191}	16.2	X	121.24578	54.80018	355.66586	27.30465	0.1201367	0.23466945	2.6031449	21	3 2.4	19.9
440066 2002 RK_{239}	18.2	X	319.60594	295.09162	170.99820	22.95539	0.0577423	0.37766329	1.8955396	21	—	—
440067 2002 RP_{241}	16.8	X	153.56963	324.05158	330.00198	12.52552	0.1608733	0.22644678	2.6657860	21	—	—
440068 2002 RS_{250}	17.2	X	97.91415	171.52884	197.38549	5.91226	0.1662148	0.22749723	2.6575736	21	—	—
440069 2002 RY_{260}	16.6	X	52.67194	315.63693	100.86184	13.28814	0.1458193	0.22551614	2.6731149	21	—	—
440070 2002 RB_{279}	17.9	X	253.79540	115.22745	265.54051	5.96135	0.1921798	0.30282547	2.1962130	21	5 26.5	20.8
440071 2002 SV_{1}	18.2	X	253.14724	157.11861	195.39626	2.97920	0.2015495	0.29843048	2.2177228	21	4 17.6	21.3
440072 2002 SG_{14}	17.9	X	52.63302	4.25677	26.96522	3.70928	0.2736636	0.21982923	2.7190201	21	—	—
440073 2002 SG_{17}	16.9	X	116.76785	26.19674	5.79818	12.63932	0.2957995	0.22907347	2.6453686	21	2 23.5	20.8
440074 2002 SZ_{19}	18.8	X	238.37905	171.03826	180.09727	8.81796	0.2743354	0.29639033	2.2278881	21	3 30.2	22.5
440075 2002 SV_{24}	16.8	X	84.14846	186.38298	179.21056	8.72126	0.2749620	0.22204062	2.7009368	21	—	—
440076 2002 SX_{67}	18.4	X	166.73005	68.81100	14.50763	4.08281	0.1371210	0.29633799	2.2281503	21	5 24.1	21.7
440077 2002 SL_{69}	17.5	X	140.14709	177.08435	137.61122	14.41657	0.2036601	0.22606759	2.6687661	21	—	—
440078 2002 TP_{18}	16.6	X	77.69329	188.96077	192.75525	13.45423	0.1366166	0.22287895	2.6941597	21	—	—
440079 2002 TK_{22}	17.4	X	48.09035	58.55559	359.37666	5.44957	0.2675055	0.22097651	2.7096008	21	—	—
440080 2002 TC_{61}	17.1	X	68.34614	81.67942	334.94842	11.48676	0.2643290	0.22429349	2.6828204	21	1 6.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440081 2002 TA_{68}	17.6	X	147.46617	288.76526	349.96548	20.10313	0.0608276	0.37630814	1.9000877	21	—	—
440082 2002 TL_{99}	17.2	X	133.46973	44.62330	282.15822	6.80810	0.2226444	0.22607383	2.6687170	21	—	—
440083 2002 TL_{156}	16.6	X	106.46376	31.86096	328.88381	12.52512	0.1792290	0.22572362	2.6714766	21	—	—
440084 2002 TE_{167}	17.4	X	59.03179	120.31821	285.47670	11.76603	0.2606663	0.22214505	2.7000903	21	—	—
440085 2002 TM_{174}	16.2	X	79.01432	247.04622	182.49842	27.64821	0.2916566	0.22647392	2.6655731	21	2 13.7	19.5
440086 2002 TK_{189}	18.0	X	260.63122	60.38953	289.89372	4.39551	0.2169297	0.29960334	2.2119312	21	4 18.1	21.3
440087 2002 TT_{203}	17.5	X	141.97649	329.49570	56.46992	7.43395	0.2645843	0.23191547	2.6237124	21	3 7.7	21.8
440088 2002 TG_{223}	17.1	X	72.55585	36.94324	17.42526	6.00047	0.2774405	0.22356074	2.6886794	21	1 13.8	19.6
440089 2002 TO_{232}	16.7	X	159.96530	79.17158	249.77466	10.29376	0.3181323	0.23010396	2.6374647	21	1 13.1	21.4
440090 2002 TP_{285}	16.8	X	85.56644	22.54577	6.29533	8.62215	0.2860813	0.22227246	2.6990584	21	1 5.3	19.7
440091 2002 TC_{319}	17.7	X	93.02903	27.95531	310.28283	2.01247	0.0962258	0.22132035	2.7067936	21	—	—
440092 2002 TH_{350}	17.1	X	151.72281	152.98344	203.94283	12.73224	0.1926333	0.23312973	2.6145941	21	1 26.6	21.3
440093 2002 TE_{353}	16.0	X	352.43897	87.34791	218.05874	5.85617	0.0662406	0.14994020	3.5090589	21	7 21.1	20.7
440094 2002 UR_{51}	16.7	X	110.41356	20.65241	305.40396	14.18473	0.0654693	0.22406915	2.6846109	21	—	—
440095 2002 VC_{46}	17.1	X	87.08788	228.34703	177.40374	8.73902	0.2393812	0.22361869	2.6882149	21	1 19.6	20.2
440096 2002 WK_{5}	18.0	X	208.03191	337.80890	54.18670	6.54070	0.1829215	0.29224539	2.2489041	21	4 29.0	21.4
440097 2002 XW	17.0	X	88.10118	128.03134	252.01223	11.72793	0.2327225	0.22165247	2.7040891	21	—	—
440098 2002 XC_{50}	16.4	X	45.74432	83.21751	281.19144	9.32212	0.3290759	0.21343536	2.7730549	21	—	—
440099 2002 XO_{69}	17.1	X	61.93361	162.28258	249.19149	3.57193	0.2504075	0.21978157	2.7194132	21	—	—
440100 2002 XP_{120}	18.2	X	197.22043	259.54440	128.93254	3.73439	0.1243904	0.28935632	2.2638487	21	4 15.0	21.6
440101 2003 AJ_{17}	16.7	X	99.28565	13.09656	118.07243	26.02807	0.2392761	0.28390081	2.2927584	21	6 4.4	20.3
440102 2003 AK_{23}	17.3	X	33.37094	99.38459	283.76116	19.18794	0.1353936	0.36752954	1.9302248	21	—	—
440103 2003 AP_{67}	17.1	X	7.34967	0.76182	92.26864	8.24633	0.2800507	0.21382486	2.7696863	21	—	—
440104 2003 BL_{11}	16.5	X	21.15538	109.08884	317.42830	25.63264	0.3112499	0.21144661	2.7904157	21	—	—
440105 2003 BY_{37}	17.6	X	231.79404	162.28760	325.92240	17.84958	0.0808099	0.35405604	1.9788887	21	10 11.3	20.2
440106 2003 GJ_{37}	17.8	X	291.75739	220.51164	349.53176	1.76929	0.1597812	0.26090927	2.4255471	21	—	—
440107 2003 HC_{14}	17.1	X	267.22216	68.32588	157.56177	11.38236	0.2137458	0.25753206	2.4467064	21	—	—
440108 2003 KG_{1}	15.7	X	69.23818	212.40531	121.17969	15.90115	0.2373898	0.18341396	3.0679466	21	—	—
440109 2003 KR_{5}	16.3	X	101.91730	101.39486	102.81951	10.77040	0.1588875	0.17471248	3.1689844	21	8 27.0	21.2
440110 2003 QT_{13}	17.6	X	114.27900	166.90017	187.75724	12.60455	0.2955959	0.23944235	2.5684360	21	—	—
440111 2003 RK_{27}	17.9	X	107.49381	189.52813	179.29977	2.85205	0.2433854	0.23777956	2.5803961	21	—	—
440112 2003 SL_{24}	17.7	X	141.33285	36.29658	347.46126	5.42264	0.2716884	0.24494092	2.5298522	21	2 28.4	21.6
440113 2003 SK_{46}	17.2	X	70.21247	356.64154	12.89148	4.07986	0.2143454	0.23327474	2.6135105	21	—	—
440114 2003 SV_{54}	17.8	X	129.06261	63.77915	298.60398	4.35757	0.2741371	0.24168678	2.5525100	21	1 21.9	21.5
440115 2003 SH_{58}	16.3	X	105.97863	107.51582	222.65752	12.47881	0.1251600	0.23602770	2.5931486	21	—	—
440116 2003 SZ_{75}	17.2	X	155.79406	343.47800	4.85434	13.39393	0.2219175	0.24422093	2.5348219	21	1 29.4	21.4
440117 2003 SP_{78}	17.3	X	149.06816	307.47146	290.97086	4.99764	0.1135391	0.22795209	2.6540371	21	11 20.6	21.5
440118 2003 SX_{82}	17.5	X	132.27810	170.40568	180.43424	10.84156	0.1372234	0.24051708	2.5607790	21	—	—
440119 2003 SC_{107}	18.0	X	106.89699	103.71951	310.78552	4.97652	0.3132847	0.24197599	2.5504757	21	3 7.5	21.4
440120 2003 SX_{108}	17.2	X	100.66235	148.45493	209.57699	13.11761	0.2669943	0.23576477	2.5950761	21	—	—
440121 2003 SD_{133}	17.4	X	85.22231	161.90950	198.45464	15.11311	0.2651541	0.23321330	2.6139694	21	—	—
440122 2003 SX_{156}	17.6	X	131.72709	175.63335	183.71513	11.13747	0.2006706	0.24106892	2.5568695	21	1 10.2	21.4
440123 2003 SF_{183}	17.6	X	146.49453	313.33251	20.67038	5.86956	0.2334610	0.24191840	2.5508805	21	—	—
440124 2003 SH_{224}	18.2	X	109.82796	87.43469	326.57275	2.86308	0.3098991	0.24103017	2.5571436	21	3 10.9	21.7
440125 2003 SE_{254}	15.5	X	353.64401	50.47326	266.70532	9.05853	0.0977077	0.15566910	3.4224290	21	8 5.5	19.9
440126 2003 SV_{274}	18.0	X	171.63681	155.98522	160.66794	2.32864	0.0984279	0.24056823	2.5604160	21	—	—
440127 2003 SG_{281}	17.3	X	144.05822	204.66995	128.72261	4.55220	0.2174545	0.24020297	2.5630110	21	—	—
440128 2003 SX_{297}	16.9	X	167.36276	57.54924	269.18542	11.39599	0.1953814	0.24389257	2.5370966	21	1 6.2	20.8
440129 2003 SN_{302}	16.5	X	280.91932	246.66727	324.26074	12.46576	0.1132130	0.24271398	2.5453032	21	—	—
440130 2003 SE_{327}	17.4	X	37.85573	86.39740	3.42833	9.68996	0.0426249	0.24028197	2.5624492	21	—	—
440131 2003 SR_{329}	18.2	X	79.86126	21.33457	20.51744	2.17497	0.2194321	0.23619892	2.5918953	21	—	—
440132 2003 SS_{332}	18.0	X	112.58778	162.45891	251.31294	2.98024	0.3009983	0.24445102	2.5332311	21	3 11.0	21.6
440133 2003 SC_{420}	17.1	X	100.53156	273.08558	107.87035	12.75569	0.0588691	0.23602998	2.5931319	21	—	—
440134 2003 TG_{9}	16.9	X	54.50410	76.04936	338.04285	10.71437	0.1915127	0.23353066	2.6116007	21	—	—
440135 2003 UJ	17.8	X	124.21033	303.45306	78.89316	9.22291	0.3564865	0.24149795	2.5538404	21	2 24.2	21.9
440136 2003 UH_{10}	17.6	X	103.33066	34.42532	28.50357	12.95789	0.2873382	0.24201953	2.5501699	21	3 17.3	21.1
440137 2003 UG_{33}	18.1	X	144.25590	193.84146	170.97085	3.32847	0.1214063	0.24306320	2.5428646	21	1 21.6	21.7
440138 2003 UR_{60}	17.3	X	135.89360	264.40331	91.71702	6.80461	0.2791983	0.24139834	2.5545429	21	1 22.6	21.1
440139 2003 UD_{79}	17.6	X	161.61635	57.20755	287.23577	3.19077	0.2312280	0.24410484	2.5356256	21	1 25.7	21.7
440140 2003 UQ_{117}	16.9	X	79.50312	299.24241	114.57629	8.48007	0.1759155	0.23841322	2.5758219	21	1 4.8	19.6
440141 2003 UE_{122}	17.8	X	145.19319	91.13497	288.49221	7.23769	0.2623501	0.24509314	2.5288046	21	2 22.7	22.0
440142 2003 UE_{125}	17.4	X	152.19990	186.76923	158.48425	4.87717	0.2557960	0.24238148	2.5476304	21	1 20.5	21.4
440143 2003 UN_{154}	17.3	X	163.51651	284.76265	50.47589	7.00567	0.2715951	0.24342115	2.5403711	21	1 21.5	21.6
440144 2003 UT_{155}	17.2	X	60.32733	355.96292	77.52858	5.68498	0.1092318	0.23833252	2.5764033	21	—	—
440145 2003 UV_{177}	18.9	X	272.22351	353.30103	348.35815	0.92705	0.1928580	0.31593281	2.1350411	21	4 21.8	21.7
440146 2003 UP_{178}	18.0	X	133.92812	34.15617	313.94968	1.49475	0.2196910	0.23958608	2.5674086	21	1 3.2	21.6
440147 2003 UB_{180}	17.9	X	129.15566	188.81056	175.99078	5.03965	0.3138380	0.24014047	2.5634557	21	1 28.9	21.7
440148 2003 UH_{211}	17.4	X	80.89437	10.55743	34.27799	5.44518	0.2459050	0.23565909	2.5958520	21	1 6.9	19.9
440149 2003 UE_{261}	17.1	X	133.55625	341.52613	28.29126	14.61933	0.1826006	0.24168733	2.5525061	21	1 29.9	21.0
440150 2003 UK_{268}	17.9	X	135.77344	330.35713	35.32431	4.96737	0.3139136	0.24087165	2.5582654	21	2 7.9	21.9
440151 2003 UK_{305}	17.2	X	137.31472	0.50677	358.97901	11.69046	0.0543487	0.24008758	2.5638322	21	—	—
440152 2003 UG_{316}	17.8	X	79.21407	206.45029	240.94963	5.59799	0.2967339	0.23900398	2.5715756	21	3 9.5	20.5
440153 2003 UC_{332}	17.9	X	170.26688	68.61646	225.37770	4.50699	0.1602922	0.24064968	2.5598382	21	—	—
440154 2003 UC_{338}	17.9	X	103.08063	337.24391	60.05676	0.97309	0.1475952	0.24137429	2.5547126	21	1 15.8	21.0
440155 2003 VJ_{4}	17.8	X	107.64160	68.86241	337.39539	3.67549	0.2732298	0.23990800	2.5651114	21	2 22.3	21.2
440156 2003 VM_{4}	18.3	X	107.25319	138.99846	282.52567	5.34140	0.2758546	0.24134631	2.5549100	21	3 10.6	21.8
440157 2003 WM_{26}	16.2	X	70.66001	109.66477	260.35423	27.94268	0.3464440	0.22975279	2.6401515	21	—	—
440158 2003 WH_{28}	17.7	X	142.81743	345.03398	17.40963	4.11430	0.2686902	0.24102251	2.5571977	21	2 5.2	21.7
440159 2003 WW_{32}	17.4	X	66.10600	35.37425	18.48569	5.39960	0.2372654	0.23439084	2.6052073	21	—	—
440160 2003 WE_{33}	17.3	X	172.40539	321.16417	17.19567	5.34230	0.2954827	0.24378323	2.5378552	21	2 2.6	21.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440161 2003 WA_{39}	17.0	X	5.96101	193.57791	255.47046	12.88745	0.1453064	0.22922187	2.6442267	21	—	—
440162 2003 WH_{56}	16.0	X	258.10272	307.89207	251.87241	21.14701	0.0518458	0.22850075	2.6497870	21	—	—
440163 2003 WR_{66}	16.5	X	336.51596	165.99790	249.92231	8.88436	0.1934913	0.21945225	2.7221331	21	12 2.6	18.7
440164 2003 WV_{67}	17.5	X	119.63157	153.32845	242.09866	4.59076	0.2799634	0.24013515	2.5634935	21	2 20.8	21.3
440165 2003 WU_{108}	17.5	X	137.35289	9.56229	9.41298	4.54327	0.2545521	0.24228567	2.5483020	21	2 18.6	21.3
440166 2003 WG_{114}	17.9	X	98.37810	131.69391	254.27631	7.92390	0.2287889	0.23570895	2.5954858	21	1 6.7	20.8
440167 2003 WP_{122}	17.7	X	64.42466	43.73372	29.79794	5.87143	0.2433803	0.23468805	2.6030074	21	1 14.5	19.9
440168 2003 WD_{143}	16.8	X	26.04462	35.97212	71.68778	9.44186	0.1535431	0.23277273	2.6172667	21	—	—
440169 2003 WL_{186}	17.6	X	178.30476	121.39767	157.77493	5.53606	0.1329867	0.23875973	2.5733291	21	—	—
440170 2003 XW_{3}	17.0	X	105.73425	169.38100	228.72680	9.07181	0.2797146	0.23745475	2.5827487	21	2 6.9	20.5
440171 2003 YQ_{63}	16.8	X	111.97170	306.38842	102.31101	6.34492	0.3059264	0.23869010	2.5738295	21	3 9.8	20.5
440172 2003 YN_{89}	16.9	X	71.06294	329.43522	97.64597	7.99844	0.3205787	0.23198934	2.6231555	21	2 2.9	19.1
440173 2003 YB_{133}	16.2	X	231.25909	214.24082	315.27204	12.68901	0.1433441	0.21221248	2.7836979	21	11 12.1	20.5
440174 2003 YF_{136}	18.3	X	256.86056	99.26231	265.32134	3.51263	0.2811392	0.31185979	2.1535905	21	4 28.1	21.6
440175 2003 YH_{145}	16.7	X	84.51602	100.04237	333.15171	12.52844	0.2055879	0.23414983	2.6069947	21	2 16.1	19.4
440176 2003 YB_{163}	17.1	X	112.13877	345.07145	45.62163	6.15937	0.3322777	0.23686961	2.5870003	21	2 19.3	20.8
440177 2004 BM_{8}	16.9	X	357.41360	257.28461	150.48917	5.58162	0.0446002	0.21450783	2.7638043	21	12 15.6	20.5
440178 2004 BZ_{33}	17.3	X	102.27636	287.23875	114.11517	5.25117	0.3195323	0.23451075	2.6043192	21	2 18.3	20.6
440179 2004 BF_{41}	16.5	X	83.62975	113.19207	330.31540	26.75959	0.4119335	0.23475765	2.6024929	21	3 20.3	20.1
440180 2004 BY_{64}	17.4	X	59.15333	344.46086	92.77758	4.16596	0.1811228	0.23042240	2.6350342	21	1 2.2	19.8
440181 2004 BM_{113}	17.1	X	342.43270	59.86210	158.05290	23.39546	0.2134549	0.28768155	2.2726264	21	1 30.7	19.8
440182 2004 CR_{6}	18.0	X	162.25436	118.40963	148.82916	22.94366	0.0745658	0.38293740	1.8780949	21	—	—
440183 2004 CU_{37}	16.1	X	324.79006	354.75903	148.23474	22.71591	0.1389262	0.22135153	2.7065395	21	—	—
440184 2004 CZ_{85}	16.7	X	60.53633	294.60236	142.52623	14.46447	0.2562313	0.22888485	2.6468217	21	1 12.5	19.0
440185 2004 CP_{87}	17.1	X	322.24667	9.09833	96.46909	10.44814	0.1624946	0.21744642	2.7388476	21	—	—
440186 2004 CE_{93}	16.7	X	264.22926	172.89739	338.26736	8.82069	0.2037255	0.21328158	2.7743877	21	11 22.7	20.4
440187 2004 CD_{103}	15.8	X	223.28408	212.51294	308.12901	14.22034	0.0793406	0.20639847	2.8357313	21	10 27.9	20.2
440188 2004 CL_{107}	16.8	X	250.55201	188.30024	341.58061	7.46639	0.1512581	0.21182748	2.7870698	21	12 7.4	20.7
440189 2004 DA_{72}	16.7	X	266.38616	174.78372	342.01284	8.85540	0.1006505	0.21331864	2.7740664	21	12 20.9	20.5
440190 2004 EH_{38}	16.4	X	304.05927	115.01886	27.45761	8.48658	0.2513871	0.21461202	2.7629097	21	—	—
440191 2004 FP	18.1	X	280.57285	317.81490	174.73971	20.99522	0.0596043	0.37922357	1.8903367	21	—	—
440192 2004 FV_{5}	17.6	X	99.73526	324.94375	3.79456	18.99238	0.0540818	0.38209818	1.8808438	21	—	—
440193 2004 FW_{28}	17.6	X	284.85844	333.54058	150.59301	22.84963	0.0789070	0.37949891	1.8894222	21	—	—
440194 2004 FW_{43}	16.0	X	193.25087	220.50744	329.58146	15.27209	0.1761548	0.20346707	2.8629030	21	10 23.2	20.9
440195 2004 FL_{110}	17.4	X	290.27752	116.46053	88.86814	7.96707	0.1998775	0.27670865	2.3323169	21	—	—
440196 2004 FK_{158}	15.2	X	106.83662	133.70509	357.09808	9.02816	0.1979860	0.12514337	3.9585016	21	6 3.6	21.3
440197 2004 GX	18.5	X	309.41900	16.95751	194.42994	1.56228	0.2207039	0.27925111	2.3181389	21	—	—
440198 2004 GS_{2}	17.7	X	241.24295	44.78826	136.94909	23.90167	0.0761567	0.37873828	1.8919511	21	—	—
440199 2004 GP_{39}	16.2	X	86.00572	321.66039	234.87188	13.86516	0.2525653	0.18349505	3.0670426	21	8 3.8	21.1
440200 2004 HV_{35}	17.7	X	307.04125	148.50128	75.82586	5.85750	0.2099286	0.28006348	2.3136539	21	—	—
440201 2004 HM_{41}	17.5	X	278.39792	160.72855	109.32163	8.47579	0.2077693	0.27790166	2.3256371	21	1 28.6	21.0
440202 2004 HN_{63}	17.7	X	223.63666	240.88010	247.99913	18.34429	0.0810136	0.36882155	1.9257143	21	10 7.3	20.1
440203 2004 HH_{64}	16.7	X	159.36127	147.74570	51.87829	6.27728	0.1784513	0.19835806	2.9118532	21	10 14.2	21.5
440204 2004 JA_{31}	16.9	X	104.92573	173.60781	67.84615	7.77295	0.2551137	0.19108491	2.9852804	21	10 22.6	22.0
440205 2004 LL_{30}	17.4	X	237.75508	88.75622	228.69268	11.09675	0.2228557	0.27192150	2.3596107	21	2 15.4	21.6
440206 2004 NX_{9}	17.4	X	237.62339	189.94636	108.82561	10.89426	0.2574055	0.27084724	2.3658458	21	1 28.6	21.5
440207 2004 NY_{12}	17.1	X	58.04406	19.11249	274.84426	6.56624	0.2794999	0.18389095	3.0626390	21	11 8.1	21.6
440208 2004 NQ_{17}	15.9	X	29.29400	33.54408	340.36993	9.03900	0.4259449	0.18131013	3.0916335	21	—	—
440209 2004 NV_{22}	17.7	X	208.30808	35.27035	299.11793	8.70594	0.2640452	0.26805729	2.3822334	21	2 15.9	21.9
440210 2004 ND_{31}	15.4	X	4.28816	28.46060	308.06484	16.68157	0.1745051	0.17687794	3.1430667	21	9 17.4	19.3
440211 2004 NZ_{32}	17.0	X	256.34146	319.49163	346.50199	23.88641	0.1899604	0.27309895	2.3528236	21	2 26.6	20.7
440212 2004 OB	18.8	X	232.60781	223.31778	174.53759	3.44204	0.4302616	0.45233272	1.6807278	21	5 11.9	21.7
440213 2004 OD_{6}	17.5	X	189.54571	328.04859	349.38022	4.76660	0.2476415	0.26516907	2.3995003	21	1 15.9	21.6
440214 2004 OJ_{10}	15.7	X	36.20233	357.49357	322.24957	18.57415	0.1951941	0.18182882	3.0857512	21	10 22.5	20.1
440215 2004 PY_{4}	17.6	X	255.21279	99.56344	222.68268	3.88726	0.2529377	0.27542611	2.3395517	21	3 8.5	21.4
440216 2004 PQ_{6}	17.0	X	218.56370	35.87104	301.91195	5.81156	0.1412036	0.27055016	2.3675774	21	2 28.0	20.6
440217 2004 PT_{10}	17.8	X	240.94630	191.19776	145.79445	12.17145	0.2458486	0.27442295	2.3452497	21	3 19.8	21.8
440218 2004 PR_{21}	16.8	X	65.85514	349.27965	327.99632	3.98313	0.2392984	0.18572590	3.0424333	21	12 10.1	21.5
440219 2004 PY_{34}	17.5	X	227.60602	5.06250	329.38675	1.52772	0.2358916	0.27082198	2.3659930	21	3 4.1	21.6
440220 2004 PO_{38}	17.8	X	206.13262	217.59704	128.32688	5.97179	0.2630659	0.26768151	2.3844624	21	3 3.6	22.0
440221 2004 PQ_{48}	17.4	X	244.44616	337.66181	334.34493	5.85638	0.2480320	0.27291512	2.3538800	21	2 17.9	21.3
440222 2004 PC_{56}	16.7	X	165.41568	342.91000	340.87759	11.50181	0.2575850	0.25800643	2.4437064	21	1 6.8	20.8
440223 2004 PW_{57}	17.9	X	92.53309	323.84598	315.49037	17.63895	0.0663565	0.35893914	1.9609003	21	11 29.3	20.7
440224 2004 PE_{65}	18.0	X	213.14347	290.02551	56.23408	3.77948	0.2168205	0.27033079	2.3688581	21	3 9.3	21.9
440225 2004 PK_{65}	15.8	X	342.12920	55.72294	323.84565	9.08551	0.1437171	0.17770489	3.1333083	21	10 8.2	19.6
440226 2004 PN_{66}	16.0	X	336.24601	227.53791	142.76663	12.71175	0.0831676	0.17877584	3.1207824	21	9 25.4	20.0
440227 2004 PJ_{74}	17.6	X	171.47725	306.40517	67.43956	3.03990	0.2297519	0.26656573	2.3911115	21	3 9.6	21.4
440228 2004 PU_{82}	16.0	X	63.04878	314.19392	338.04193	17.67709	0.2615497	0.18166475	3.0876088	21	11 2.5	20.9
440229 2004 PE_{104}	16.2	X	32.58868	308.25410	43.95346	17.86027	0.2815487	0.18428891	3.0582284	21	12 17.9	20.4
440230 2004 PQ_{111}	16.0	X	73.67539	281.09988	335.46493	24.78129	0.2357962	0.17864918	3.1222573	21	9 25.5	20.9
440231 2004 QG_{15}	16.2	X	333.19035	69.60157	308.41862	9.90362	0.0275371	0.17557482	3.1585996	21	9 23.8	20.6
440232 2004 QQ_{15}	17.6	X	208.49775	174.40173	193.21253	5.70513	0.2512337	0.27041553	2.3683631	21	3 29.6	21.6
440233 2004 QS_{15}	15.7	X	247.96713	148.19751	317.60128	10.12348	0.0409130	0.17571007	3.1569784	21	9 22.7	20.4
440234 2004 QE_{19}	17.8	X	228.09243	342.39224	328.80332	3.22681	0.2204055	0.26838164	2.3803136	21	2 5.5	21.6
440235 2004 QR_{19}	15.3	X	353.97085	75.55175	290.46512	24.77690	0.2714005	0.17483848	3.1674617	21	10 7.6	19.0
440236 2004 QK_{20}	15.4	X	57.67566	50.79528	264.14983	22.03621	0.2463766	0.18208878	3.0828135	21	11 29.8	20.0
440237 2004 QB_{26}	17.5	X	199.87596	195.09225	153.10787	1.60833	0.1926465	0.26743139	2.3859488	21	2 27.0	21.2
440238 2004 QV_{28}	17.6	X	33.21721	321.83259	179.06887	18.89295	0.0402780	0.26470113	2.4023274	21	1 29.8	20.8
440239 2004 RB_{2}	15.5	X	345.31688	98.38282	298.28647	24.82072	0.2674150	0.17671255	3.1450276	21	11 6.7	19.1
440240 2004 RF_{2}	15.2	X	25.72204	33.75224	313.63753	26.62682	0.1400853	0.17730665	3.1379982	21	10 31.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440241 2004 RG_{9}	16.5	X	37.00063	232.42621	126.13975	3.94870	0.1834008	0.18324833	3.0697950	21	12 19.1	20.6
440242 2004 RX_{9}	18.0	X	171.35605	59.30027	5.13220	5.88195	0.4221372	0.26888725	2.3773288	21	5 13.7	22.8
440243 2004 RF_{10}	17.2	X	131.64359	291.71124	85.23018	9.62661	0.3532782	0.25715304	2.4491099	21	2 21.7	21.2
440244 2004 RG_{13}	17.7	X	218.88094	323.43674	22.14791	2.92690	0.2009946	0.26947612	2.3738641	21	3 12.4	21.6
440245 2004 RM_{14}	17.8	X	152.83246	209.39917	183.09201	5.98881	0.2447734	0.26456867	2.4031291	21	3 15.9	21.7
440246 2004 RY_{14}	17.8	X	184.53962	42.88526	339.95564	8.68850	0.2176259	0.26874043	2.3781946	21	3 26.7	21.9
440247 2004 RT_{15}	17.6	X	176.18902	330.86696	33.77870	2.83711	0.1812501	0.26549648	2.3975272	21	2 27.3	21.2
440248 2004 RF_{22}	17.9	X	226.36338	311.43464	346.16899	2.64086	0.1772591	0.26555412	2.3971802	21	1 19.8	21.7
440249 2004 RM_{22}	17.9	X	186.30557	5.98823	5.96179	2.23828	0.2359418	0.26721649	2.3872279	21	3 18.2	21.7
440250 2004 RN_{22}	17.7	X	209.17519	174.95632	160.58875	2.78218	0.2177731	0.26721978	2.3872083	21	2 19.5	21.7
440251 2004 RW_{41}	15.6	X	48.13809	1.39948	317.99248	16.20674	0.1842971	0.17918578	3.1160208	21	11 9.1	20.2
440252 2004 RJ_{46}	17.8	X	210.16959	182.55129	156.44603	2.58584	0.2281812	0.26771183	2.3842823	21	2 24.6	22.0
440253 2004 RR_{64}	15.9	X	44.33933	14.93454	351.22828	11.03314	0.1450309	0.18402369	3.0611661	21	—	—
440254 2004 RV_{68}	17.3	X	152.21910	239.09208	175.14551	8.43847	0.3214298	0.26451438	2.4034579	21	4 18.7	21.5
440255 2004 RD_{71}	18.3	X	208.49255	87.73812	225.96347	2.17803	0.2352587	0.26511416	2.3998316	21	1 24.0	22.5
440256 2004 RR_{80}	16.4	X	3.55700	324.13087	12.58319	5.64049	0.2029407	0.17441756	3.1725557	21	9 28.3	19.7
440257 2004 RG_{81}	17.7	X	166.04196	72.00922	309.42371	2.80083	0.1771882	0.26487170	2.4012959	21	3 8.3	21.3
440258 2004 RR_{82}	17.9	X	178.73098	20.56026	6.97550	2.98314	0.1870880	0.26773113	2.3841677	21	3 28.9	21.5
440259 2004 RB_{88}	17.9	X	141.95646	136.48438	261.07174	1.56255	0.1940405	0.26325494	2.4111174	21	3 6.7	21.5
440260 2004 RQ_{91}	17.9	X	173.44160	111.08492	262.22125	2.15660	0.2092772	0.26584995	2.3954015	21	3 6.8	21.9
440261 2004 RG_{94}	17.5	X	176.45532	71.90291	324.18277	8.34249	0.2216710	0.26886900	2.3774363	21	4 4.2	21.6
440262 2004 RY_{99}	17.6	X	219.05753	25.56855	298.12494	4.43016	0.1936285	0.26724243	2.3870734	21	2 12.4	21.6
440263 2004 RO_{100}	17.3	X	226.47918	311.80906	332.88502	5.34516	0.2374131	0.26432092	2.4046306	21	1 4.8	21.5
440264 2004 RX_{101}	17.9	X	193.42271	137.31834	228.16050	1.70773	0.2514707	0.26713798	2.3876956	21	3 15.4	22.1
440265 2004 RD_{103}	15.6	X	331.57185	53.11770	336.80278	22.34588	0.1756919	0.17460584	3.1702746	21	9 25.7	19.4
440266 2004 RR_{107}	17.3	X	215.86640	317.93712	351.35954	7.47873	0.2484050	0.26476534	2.4019390	21	1 27.1	21.5
440267 2004 RQ_{112}	15.9	X	359.50377	91.38121	281.40627	14.58005	0.2730120	0.17585617	3.1552296	21	11 12.7	19.2
440268 2004 RY_{113}	15.4	X	33.98136	68.36032	264.53169	14.83768	0.2350364	0.17912006	3.1167830	21	11 19.2	19.5
440269 2004 RO_{114}	16.1	X	130.84440	245.38797	332.97032	9.73445	0.0237559	0.17678860	3.1441256	21	9 25.9	20.7
440270 2004 RG_{126}	16.6	X	34.38642	124.44402	174.81506	9.55739	0.1208602	0.17483106	3.1675513	21	9 22.2	20.7
440271 2004 RS_{131}	16.1	X	6.35895	340.43845	351.80149	9.12146	0.0918628	0.17466136	3.1696027	21	9 18.4	20.1
440272 2004 RR_{138}	18.1	X	208.82260	93.20356	257.80007	6.52325	0.2716096	0.26931632	2.3748031	21	3 6.8	22.5
440273 2004 RO_{143}	17.6	X	173.42138	309.75496	86.59223	3.17208	0.2112048	0.26688333	2.3892142	21	4 7.1	21.4
440274 2004 RQ_{143}	17.7	X	210.90669	215.57523	130.22474	3.39885	0.2035354	0.26741079	2.3860714	21	3 6.3	21.7
440275 2004 RP_{155}	17.9	X	171.86298	126.39086	261.75279	3.35525	0.2360495	0.26635174	2.3923921	21	3 24.6	22.0
440276 2004 RX_{159}	17.7	X	207.88828	119.10608	221.22296	4.39618	0.2285490	0.26638384	2.3921999	21	2 22.8	21.9
440277 2004 RF_{164}	16.0	X	6.94321	21.00118	322.04677	13.71885	0.0433471	0.17445382	3.1721159	21	9 24.2	20.4
440278 2004 RL_{169}	18.1	X	226.44160	211.21443	104.58147	1.99895	0.2414653	0.26789010	2.3832244	21	2 9.7	22.2
440279 2004 RW_{170}	15.9	X	11.89964	60.07010	291.44111	8.82597	0.1915590	0.17779520	3.1322472	21	10 29.5	19.7
440280 2004 RE_{179}	16.2	X	335.18627	59.92220	326.78991	14.82181	0.2353064	0.17396356	3.1780729	21	9 27.9	19.6
440281 2004 RZ_{186}	15.8	X	338.73173	174.48485	223.31805	9.75909	0.1935839	0.17588913	3.1548355	21	10 29.9	19.1
440282 2004 RB_{188}	17.3	X	203.56274	24.13901	299.04773	6.15919	0.1549734	0.26320512	2.4114216	21	1 29.7	21.0
440283 2004 RY_{203}	17.3	X	220.59509	28.30444	311.37083	6.42359	0.1582503	0.26911796	2.3759699	21	3 4.2	21.1
440284 2004 RR_{204}	17.2	X	141.05748	157.09739	242.61113	4.36130	0.1856398	0.26305897	2.4123147	21	3 6.3	20.8
440285 2004 RQ_{213}	15.8	X	8.87503	65.66918	305.45041	15.73880	0.2339514	0.17712102	3.1401904	21	11 25.4	19.6
440286 2004 RF_{214}	16.0	X	25.00050	34.22099	308.64077	12.00673	0.2406672	0.17813023	3.1283185	21	11 16.8	20.0
440287 2004 RY_{216}	16.2	X	349.66760	92.16954	314.26826	10.81741	0.2493535	0.17745387	3.1362624	21	12 7.1	19.4
440288 2004 RJ_{217}	16.6	X	286.35463	123.08206	299.58723	10.77800	0.3791781	0.16548898	3.2856653	21	8 1.2	21.3
440289 2004 RY_{217}	16.8	X	157.20601	107.32227	344.75283	20.31807	0.3716061	0.26714841	2.3876335	21	6 5.0	21.7
440290 2004 RS_{220}	16.1	X	333.34409	63.12279	348.84363	20.55403	0.3319174	0.17291294	3.1909332	21	10 21.0	19.1
440291 2004 RR_{224}	17.2	X	223.32383	48.11803	257.05762	1.58150	0.2383428	0.26452349	2.4034027	21	1 25.5	21.5
440292 2004 RY_{224}	16.2	X	19.53703	18.54011	356.41988	7.67609	0.1574051	0.18135458	3.0911283	21	12 9.8	20.2
440293 2004 RV_{227}	17.6	X	137.96777	45.92635	346.23960	4.77565	0.1454706	0.25937823	2.4350826	21	2 19.7	20.9
440294 2004 RB_{232}	17.6	X	155.63559	355.60213	12.81362	6.40196	0.1493876	0.25962645	2.4335303	21	2 11.1	21.1
440295 2004 RL_{235}	16.1	X	337.88767	43.46972	339.68613	11.49320	0.2547872	0.17359631	3.1825535	21	10 1.6	19.3
440296 2004 RP_{235}	18.3	X	164.92960	229.70103	100.45912	1.66769	0.2259384	0.26050744	2.4280407	21	1 8.9	22.0
440297 2004 RN_{247}	15.5	X	345.85223	120.34097	257.31165	17.74428	0.1933250	0.17662226	3.1460992	21	10 11.0	19.3
440298 2004 RA_{258}	15.9	X	352.86669	67.49839	327.80412	10.82941	0.0814684	0.18080762	3.0973592	21	11 14.7	20.1
440299 2004 RA_{270}	16.5	X	316.20209	46.68667	350.62950	6.06378	0.1558193	0.17359754	3.1825386	21	9 18.5	20.3
440300 2004 RX_{272}	18.1	X	142.34460	10.10301	13.96446	2.32730	0.1413028	0.26181741	2.4199350	21	2 13.6	21.5
440301 2004 RP_{280}	17.9	X	135.73227	131.32451	264.84099	1.07429	0.2164453	0.26126418	2.4233499	21	3 1.6	21.4
440302 2004 RY_{285}	18.2	X	226.74569	176.46562	131.92428	3.11130	0.2427647	0.26705166	2.3882101	21	1 31.8	22.3
440303 2004 RX_{307}	17.5	X	204.52532	99.50675	243.08867	3.97724	0.2373610	0.26560917	2.3968490	21	2 23.1	21.7
440304 2004 RN_{318}	16.8	X	33.02022	65.89167	258.25287	5.41888	0.2269483	0.17829987	3.1263339	21	11 5.4	20.7
440305 2004 RO_{320}	17.7	X	149.60445	72.03084	322.24167	4.12834	0.2276833	0.26284260	2.4136384	21	3 13.1	21.5
440306 2004 RM_{326}	17.3	X	204.22402	115.94161	227.11795	5.58153	0.1498856	0.26623109	2.3931148	21	2 21.3	21.2
440307 2004 RB_{328}	16.5	X	358.12294	51.62317	324.80668	9.34514	0.2515877	0.17590977	3.1545887	21	11 11.4	19.9
440308 2004 RU_{337}	18.2	X	138.75531	221.33224	189.87025	2.32113	0.1742438	0.26184166	2.4197856	21	3 19.4	21.5
440309 2004 SC_{3}	16.4	X	38.51732	166.56004	168.03294	10.97711	0.2008070	0.18135552	3.0911176	21	11 26.0	20.6
440310 2004 SR_{3}	15.3	X	313.43230	85.38038	308.67907	14.41153	0.0552600	0.17494349	3.1661940	21	9 13.4	19.7
440311 2004 SO_{34}	17.6	X	277.04567	354.46812	272.41438	5.58191	0.1031934	0.26821503	2.3812993	21	2 1.4	21.0
440312 2004 SE_{42}	16.4	X	330.08936	84.00137	318.99260	8.47230	0.2238954	0.17483793	3.1674683	21	10 13.1	19.7
440313 2004 SG_{50}	17.7	X	205.50648	329.93999	15.25047	2.76160	0.2276574	0.26602911	2.3943260	21	3 1.4	21.7
440314 2004 ST_{50}	16.3	X	2.60875	341.18969	12.64349	8.06726	0.0524672	0.17284902	3.1917199	21	10 8.2	20.5
440315 2004 SR_{56}	16.3	X	355.25218	200.22628	167.57417	11.08561	0.2248647	0.17561452	3.1581234	21	10 28.5	19.6
440316 2004 TF_{26}	16.4	X	307.62962	47.85092	1.05639	5.14439	0.0858838	0.17259168	3.1948918	21	9 27.6	20.5
440317 2004 TE_{33}	18.1	X	207.36871	5.07257	325.03446	1.70905	0.2196091	0.26396474	2.4067932	21	2 12.1	22.2
440318 2004 TN_{33}	18.0	X	136.21190	206.82317	230.48414	4.00700	0.1550490	0.26481904	2.4016142	21	4 16.7	21.3
440319 2004 TN_{45}	15.5	X	2.49706	330.16586	25.52563	16.20497	0.1482514	0.17263659	3.1943377	21	10 17.1	19.2
440320 2004 TC_{46}	18.0	X	215.27717	354.33154	353.63063	1.13092	0.2021923	0.26652498	2.3913553	21	3 11.7	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440321 2004 TS_{59}	17.2	X	168.08833	349.43237	24.81283	5.86959	0.1090861	0.26300269	2.4126589	21	2 27.5	20.6
440322 2004 TK_{60}	17.9	X	173.45199	86.39526	302.63839	1.03925	0.2290990	0.26592711	2.3949382	21	3 27.9	21.7
440323 2004 TR_{65}	16.1	X	322.81587	343.42781	45.94346	5.44169	0.2007558	0.17111636	3.2132292	21	9 17.8	19.6
440324 2004 TH_{90}	17.7	X	205.62580	309.09890	3.27864	6.34428	0.1675557	0.26019683	2.4299726	21	1 21.4	21.6
440325 2004 TV_{96}	17.9	X	154.95712	215.34388	182.32155	2.85811	0.1737007	0.26276265	2.4141280	21	3 18.8	21.4
440326 2004 TS_{103}	17.8	X	207.70278	148.29479	206.27100	1.35888	0.2100237	0.26789490	2.3831960	21	3 13.0	21.8
440327 2004 TB_{108}	17.6	X	179.35723	230.93264	153.12157	7.43198	0.2145037	0.26570487	2.3962734	21	3 28.4	21.5
440328 2004 TC_{112}	16.0	X	16.91728	50.13374	297.34347	13.25213	0.2954583	0.17571522	3.1569168	21	11 17.6	19.7
440329 2004 TW_{115}	17.7	X	188.60019	279.20067	78.02841	3.78759	0.2244674	0.26414542	2.4056955	21	3 3.8	21.7
440330 2004 TP_{118}	16.6	X	163.42769	10.88360	0.81988	8.50881	0.0932190	0.26165075	2.4209625	21	2 17.9	20.0
440331 2004 TA_{124}	17.6	X	181.20568	254.27423	99.15959	2.54028	0.2031650	0.26359851	2.4090219	21	2 19.1	21.4
440332 2004 TX_{124}	16.3	X	319.96592	255.75241	148.06735	8.23148	0.2667103	0.17200767	3.2021193	21	9 23.6	19.5
440333 2004 TM_{125}	17.7	X	203.84833	321.00880	29.23842	1.82579	0.2017133	0.26646167	2.3917341	21	3 5.7	21.7
440334 2004 TQ_{126}	17.4	X	182.58297	312.46868	51.42319	6.78036	0.2750974	0.26449959	2.4035475	21	3 10.4	21.6
440335 2004 TD_{129}	17.8	X	175.42917	298.21138	78.23685	3.76202	0.2250645	0.26417643	2.4055072	21	3 16.5	21.8
440336 2004 TR_{162}	17.8	X	207.31601	192.27797	167.00393	1.40205	0.2093176	0.26612025	2.3937793	21	3 19.2	21.6
440337 2004 TW_{181}	15.6	X	30.13980	327.29138	12.32297	27.49304	0.1327944	0.17802990	3.1294937	21	10 29.1	20.0
440338 2004 TJ_{187}	16.2	X	45.14038	312.46954	13.07053	11.12586	0.1286402	0.17723373	3.1388590	21	11 7.3	20.5
440339 2004 TL_{196}	17.9	X	164.79768	162.25943	211.39637	5.01496	0.2509345	0.26151580	2.4217953	21	3 2.4	22.0
440340 2004 TM_{197}	17.6	X	142.65329	198.65006	199.76641	4.60834	0.1078548	0.26070335	2.4268241	21	2 26.2	20.8
440341 2004 TJ_{209}	18.2	X	210.64959	338.50087	4.75437	1.05567	0.2219174	0.26685747	2.3893686	21	3 2.4	22.2
440342 2004 TN_{213}	15.9	X	2.54949	130.73564	206.07477	16.45031	0.1803865	0.17238986	3.1973847	21	9 20.9	19.7
440343 2004 TB_{224}	17.6	X	166.55454	123.61430	283.00547	1.54268	0.1908535	0.26670507	2.3902787	21	4 10.5	21.3
440344 2004 TG_{226}	16.2	X	9.56992	317.28975	27.92576	9.30771	0.0962538	0.17419733	3.1752290	21	10 11.8	20.3
440345 2004 TU_{227}	18.2	X	128.81036	41.78033	359.41762	4.54483	0.1824092	0.25875801	2.4389722	21	2 26.0	21.4
440346 2004 TN_{244}	16.0	X	328.38269	0.20482	356.80661	7.34913	0.0637904	0.16768422	3.2569262	21	8 25.7	20.2
440347 2004 TH_{265}	17.7	X	139.54998	10.80242	9.34489	2.54178	0.1947109	0.25728395	2.4482791	21	2 12.8	21.2
440348 2004 TZ_{275}	17.5	X	133.09878	175.92969	222.41539	5.25017	0.1135154	0.25744062	2.4472857	21	2 14.9	20.9
440349 2004 TL_{295}	15.6	X	31.63855	359.00940	35.11605	10.99842	0.0902816	0.18046169	3.1013161	21	—	—
440350 2004 TC_{296}	18.2	X	166.72993	157.51439	225.59171	6.00460	0.2391565	0.26151248	2.4218158	21	3 14.2	22.3
440351 2004 TE_{297}	16.9	X	172.68997	328.07888	34.23959	8.03182	0.2048081	0.26129667	2.4231490	21	2 25.8	20.9
440352 2004 TC_{298}	15.5	X	333.19556	121.85463	254.89049	12.22041	0.1625390	0.17093496	3.2155020	21	9 14.2	19.4
440353 2004 TR_{298}	17.0	X	321.27623	28.99804	8.92648	5.99541	0.2288458	0.17093974	3.2154421	21	9 21.3	20.5
440354 2004 TR_{350}	17.4	X	152.29123	340.85698	31.09229	2.97938	0.2227557	0.25793174	2.4441782	21	2 18.6	21.1
440355 2004 TB_{354}	18.2	X	144.87960	357.79771	26.58413	1.07956	0.1804746	0.25732958	2.4479896	21	2 21.7	21.7
440356 2004 TW_{361}	17.9	X	148.16707	28.17334	2.06941	2.64958	0.1761100	0.25981824	2.4323326	21	3 3.7	21.5
440357 2004 VO_{2}	16.2	X	327.58524	211.15275	223.57925	7.78017	0.1611817	0.17662915	3.1460174	21	11 28.2	19.7
440358 2004 VY_{10}	15.5	X	20.94567	9.62374	359.96199	17.43247	0.2104631	0.17668587	3.1453441	21	12 9.9	19.7
440359 2004 VC_{77}	15.9	X	303.93545	20.55631	43.37865	6.81064	0.1450649	0.17001725	3.2270625	21	10 6.5	19.9
440360 2004 XC_{18}	16.4	X	66.60285	247.02715	175.36784	13.84232	0.1252871	0.24704532	2.5154651	21	—	—
440361 2004 XA_{36}	16.1	X	221.31422	71.56394	108.19765	32.17935	0.1519117	0.22436643	2.6822390	21	11 29.8	20.6
440362 2004 XX_{39}	17.5	X	139.27348	353.33160	78.38258	2.76556	0.1559725	0.26021583	2.4298543	21	4 15.2	21.1
440363 2004 XU_{51}	15.4	X	37.21331	89.21078	248.21937	24.39608	0.2959462	0.17453423	3.1711416	21	12 7.9	19.6
440364 2004 XR_{57}	17.0	X	109.67008	97.88537	256.61138	2.54961	0.2291718	0.24376313	2.5379947	21	—	—
440365 2004 XP_{58}	16.5	X	154.48795	276.40029	83.69235	14.38618	0.1583943	0.24981181	2.4968593	21	2 2.5	20.3
440366 2004 XS_{80}	15.5	X	340.56402	169.69370	267.32173	33.59556	0.1899708	0.23381147	2.6095093	21	—	—
440367 2004 XL_{87}	16.3	X	59.67438	106.58342	243.10344	11.68569	0.1715150	0.23875790	2.5733423	21	—	—
440368 2004 XP_{103}	16.7	X	59.85486	152.70545	234.99370	8.21605	0.1201516	0.24258297	2.5462195	21	—	—
440369 2005 AZ_{12}	17.2	X	25.02574	35.03090	70.19869	4.17056	0.1576879	0.24244147	2.5472102	21	—	—
440370 2005 AJ_{18}	15.8	X	251.23985	239.36267	314.11956	29.93602	0.2276060	0.22720686	2.6598374	21	—	—
440371 2005 AG_{23}	16.8	X	61.87597	307.67539	91.22891	8.26062	0.3151632	0.24131522	2.5551295	21	—	—
440372 2005 AJ_{30}	16.3	X	62.55562	68.82601	9.01937	14.26078	0.2851961	0.24483879	2.5305557	21	1 22.3	18.4
440373 2005 AE_{74}	17.2	X	22.26476	145.96546	308.17855	7.26630	0.1071599	0.23911453	2.5707829	21	—	—
440374 2005 BY_{28}	17.2	X	39.65378	63.72059	38.69345	4.81543	0.1806100	0.24355325	2.5394525	21	—	—
440375 2005 BD_{49}	16.9	X	62.08401	184.86052	253.42912	12.47936	0.1345299	0.24438571	2.5336824	21	—	—
440376 2005 CN_{18}	16.5	X	300.66145	2.10731	135.41712	15.09362	0.0803857	0.23063117	2.6334438	21	—	—
440377 2005 CC_{36}	17.0	X	266.95225	40.33005	118.65982	8.43318	0.2020109	0.22755934	2.6570901	21	12 13.6	20.1
440378 2005 CN_{47}	16.6	X	84.06638	264.02434	146.43939	28.28436	0.1783962	0.24147951	2.5539704	21	1 9.2	19.8
440379 2005 CS_{47}	16.7	X	306.90706	203.56136	321.81666	14.51297	0.0708837	0.23426615	2.6061316	21	—	—
440380 2005 CD_{61}	17.0	X	289.60909	185.36573	338.87959	14.11357	0.0708530	0.23138751	2.6277020	21	—	—
440381 2005 EN_{91}	16.6	X	139.27129	21.43984	347.59838	30.02656	0.1726160	0.23708206	2.5854546	21	2 10.4	20.7
440382 2005 ET_{122}	17.1	X	46.44736	93.96408	334.57917	13.55192	0.1442872	0.23686833	2.5870097	21	—	—
440383 2005 EK_{126}	16.5	X	173.11283	58.77275	185.57106	7.55098	0.1746638	0.21707924	2.7419352	21	12 17.5	21.1
440384 2005 EO_{238}	16.5	X	232.40376	176.61421	6.27178	13.80393	0.0692123	0.22103024	2.7091616	21	12 14.1	20.5
440385 2005 ED_{243}	16.5	X	174.96105	259.36997	9.09112	11.24182	0.1809652	0.22248933	2.6973042	21	—	—
440386 2005 EP_{251}	16.8	X	206.72565	143.72925	52.69660	5.52620	0.2422151	0.21801270	2.7341028	21	11 15.4	21.2
440387 2005 GO_{36}	18.4	X	17.90077	142.40441	94.34267	0.39295	0.1245346	0.31104229	2.1573623	21	5 24.5	20.0
440388 2005 GM_{57}	17.1	X	163.08526	239.17908	31.22169	7.99630	0.0706709	0.21977549	2.7194633	21	—	—
440389 2005 GP_{68}	16.9	X	239.89902	69.30464	97.20523	14.42818	0.2032733	0.21950473	2.7216992	21	11 19.6	21.0
440390 2005 GG_{176}	17.2	X	98.94439	166.34358	102.51515	6.60323	0.2266932	0.20541015	2.8448199	21	11 16.9	21.9
440391 2005 GF_{198}	17.1	X	93.89872	213.97163	204.38099	4.43111	0.2189449	0.23564453	2.5959588	21	2 9.9	20.2
440392 2005 GO_{200}	17.7	X	148.21323	272.83335	346.18481	14.22397	0.2984947	0.21771054	2.7366321	21	12 11.9	23.0
440393 2005 JQ_{20}	17.1	X	200.46906	83.09810	108.05300	9.28404	0.3167674	0.21399200	2.7682439	21	11 2.9	22.1
440394 2005 JN_{32}	17.4	X	153.21512	72.46688	209.80232	1.82294	0.1573151	0.21611961	2.7500458	21	—	—
440395 2005 JH_{120}	17.2	X	196.95308	123.82157	105.17801	5.20065	0.1485170	0.21601869	2.7509023	21	12 22.5	21.3
440396 2005 JO_{156}	16.2	X	10.93870	106.69024	234.82003	8.57754	0.0611462	0.20152263	2.8812891	21	10 6.3	20.0
440397 2005 LU_{20}	17.0	X	231.64236	95.11342	99.95551	9.62305	0.1381989	0.21666591	2.7454213	21	12 19.7	20.9
440398 2005 MN_{14}	18.0	X	286.72561	178.71806	138.22356	7.55084	0.2023408	0.29769435	2.2213773	21	4 8.5	21.0
440399 2005 NW_{3}	16.8	X	147.95883	115.19899	126.39477	16.14140	0.2192814	0.20407268	2.8572362	21	11 25.9	22.0
440400 2005 NQ_{19}	18.1	X	348.82881	323.32391	293.59837	5.95181	0.1476498	0.30067150	2.2066894	21	4 19.6	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440401 2005 NS_{28}	18.1	X	302.74885	171.83363	147.88217	6.96109	0.2045859	0.30060260	2.2070266	21	5 2.2	20.7
440402 2005 NO_{41}	18.2	X	242.39475	187.97644	192.03789	1.03599	0.1732858	0.29893341	2.2152347	21	5 15.9	21.5
440403 2005 ND_{45}	18.4	X	282.01037	171.39963	176.54365	4.58511	0.2123692	0.30069035	2.2065972	21	5 12.4	21.3
440404 2005 NT_{64}	18.8	X	270.42402	131.82093	210.44500	2.33619	0.2219410	0.29770021	2.2213481	21	4 19.1	21.9
440405 2005 NW_{67}	16.5	X	66.60135	38.21145	286.57725	7.26149	0.0941708	0.20048925	2.8911812	21	12 4.3	20.6
440406 2005 OK_{1}	17.5	X	81.37576	266.78631	70.08836	8.18543	0.3609673	0.20094467	2.8868112	21	—	—
440407 2005 OU_{21}	17.7	X	268.80735	228.72803	143.15020	4.93226	0.1869975	0.30003565	2.2098060	21	6 2.5	20.7
440408 2005 PM_{3}	16.6	X	45.92878	108.69415	265.63226	11.18646	0.2518851	0.19867882	2.9087183	21	—	—
440409 2005 QZ_{4}	17.8	X	27.29141	234.35097	145.23283	22.98980	0.0931070	0.38541576	1.8700350	21	—	—
440410 2005 QA_{25}	18.1	X	166.62179	358.40900	57.63260	2.58768	0.1659379	0.28585613	2.2822911	21	4 21.1	21.5
440411 2005 QS_{28}	16.4	X	78.43499	359.56195	315.26079	9.72827	0.1030288	0.19878381	2.9076941	21	12 6.1	20.8
440412 2005 QG_{32}	17.0	X	38.34431	53.39035	332.53991	11.62635	0.2928542	0.19697357	2.9254819	21	—	—
440413 2005 QD_{34}	16.3	X	48.28835	29.01665	331.78843	7.83511	0.1629920	0.19727006	2.9225498	21	—	—
440414 2005 QY_{62}	17.0	X	65.85428	30.95983	348.36918	12.49788	0.1344841	0.20258054	2.8712493	21	—	—
440415 2005 QR_{68}	16.1	X	78.99275	23.04933	349.48922	23.63776	0.2616173	0.20446006	2.8536261	21	—	—
440416 2005 QR_{80}	17.8	X	223.46533	204.26584	125.98928	4.50973	0.1844504	0.28634407	2.2796977	21	2 23.9	21.5
440417 2005 QS_{80}	17.5	X	204.56646	36.62085	5.44017	5.93999	0.1832800	0.29211010	2.2495984	21	5 6.3	21.0
440418 2005 QL_{83}	18.2	X	285.43399	85.71434	233.51252	2.40491	0.2002025	0.29495783	2.2350956	21	4 6.6	21.0
440419 2005 QE_{114}	17.8	X	279.62298	314.53641	26.36448	4.44113	0.1739039	0.29593522	2.2301716	21	5 3.3	20.7
440420 2005 QW_{129}	16.5	X	351.57457	225.34338	144.73512	8.73854	0.0703455	0.18819609	3.0157522	21	10 19.6	20.4
440421 2005 QT_{170}	17.3	X	246.01643	73.29003	299.12477	6.44598	0.2147375	0.29437205	2.2380597	21	5 3.5	20.9
440422 2005 QX_{180}	18.1	X	290.05099	141.10124	184.48723	7.53227	0.1870547	0.29622570	2.2287134	21	4 25.1	21.0
440423 2005 RB_{15}	16.6	X	300.27452	81.82543	341.40823	3.75539	0.1333291	0.18660804	3.0328376	21	9 30.5	20.4
440424 2005 RM_{22}	17.4	X	257.52919	92.50151	276.41909	4.63845	0.1993931	0.29524202	2.2336610	21	5 13.2	20.7
440425 2005 RG_{33}	17.5	X	213.29097	195.94036	194.67902	5.53257	0.2189597	0.29009346	2.2600121	21	5 1.3	21.2
440426 2005 RC_{45}	16.7	X	48.30600	352.66485	346.57618	3.29267	0.2465298	0.19081867	2.9880565	21	12 19.7	21.0
440427 2005 RF_{48}	16.6	X	346.71484	334.61782	64.23083	10.25046	0.0773305	0.18832410	3.0143854	21	11 15.9	20.3
440428 2005 RU_{51}	16.5	X	302.12378	188.40875	187.36922	4.63812	0.1606275	0.18041118	3.1018949	21	7 27.6	20.4
440429 2005 SK_{8}	17.1	X	41.17067	159.45652	202.84902	8.72299	0.1280689	0.19309588	2.9645177	21	12 22.7	21.2
440430 2005 SO_{8}	17.7	X	182.60573	163.45843	195.59545	5.11389	0.1864879	0.27982155	2.3149873	21	2 22.1	21.4
440431 2005 SF_{21}	16.6	X	334.79262	94.36380	291.24792	3.76582	0.1382854	0.18327705	3.0694743	21	10 6.6	20.1
440432 2005 SR_{21}	15.7	X	344.59454	219.18768	144.55236	25.31962	0.3162220	0.18203625	3.0834066	21	10 3.6	18.5
440433 2005 SA_{22}	18.1	X	241.25754	199.95962	145.31397	3.80250	0.1698888	0.28941834	2.2635253	21	3 31.7	21.5
440434 2005 SL_{22}	16.6	X	325.50401	258.83960	92.92729	3.07920	0.2324542	0.17976785	3.1092910	21	7 26.9	19.7
440435 2005 SZ_{22}	17.9	X	190.88433	7.31707	24.37018	6.35887	0.1540757	0.28673901	2.2776039	21	4 11.9	21.3
440436 2005 SB_{31}	18.0	X	208.76732	239.08040	137.00759	2.15612	0.1643626	0.28688083	2.2768532	21	4 9.7	21.4
440437 2005 SM_{32}	17.3	X	24.65328	288.83092	87.03750	3.41462	0.1922069	0.19117805	2.9843107	21	12 26.7	21.0
440438 2005 SS_{38}	16.5	X	334.01712	178.99836	191.15994	9.79156	0.0800245	0.18234117	3.0799681	21	9 17.7	20.4
440439 2005 SA_{40}	16.2	X	338.70850	39.35320	13.23659	7.99558	0.1149247	0.18915340	3.0055684	21	11 19.3	19.9
440440 2005 SO_{43}	17.7	X	319.08976	285.28180	353.70193	6.63014	0.1210401	0.29091343	2.2557634	21	4 7.5	20.1
440441 2005 SJ_{45}	18.1	X	204.78149	134.79057	207.89408	4.25929	0.2154713	0.28183758	2.3039344	21	2 21.7	22.0
440442 2005 SP_{45}	16.4	X	30.39470	305.74434	9.62498	10.75803	0.0991676	0.18339207	3.0681907	21	10 4.8	20.2
440443 2005 SN_{47}	16.3	X	257.46085	120.31288	4.88889	11.61202	0.0851071	0.18713537	3.0271374	21	10 24.7	20.5
440444 2005 SU_{48}	17.0	X	47.51294	104.29019	195.82104	3.66119	0.2798234	0.18705646	3.0279886	21	11 6.2	21.1
440445 2005 SG_{59}	16.9	X	12.03358	322.42978	25.19245	0.96736	0.1921448	0.18592850	3.0402227	21	10 29.9	20.3
440446 2005 SS_{74}	16.7	X	317.46170	154.55930	186.34725	11.40623	0.0811218	0.17623183	3.1507443	21	7 14.5	21.1
440447 2005 SD_{75}	18.2	X	184.39438	221.65485	184.64930	5.89195	0.0966088	0.28800169	2.2709419	21	4 23.8	21.4
440448 2005 SH_{76}	17.9	X	264.30978	330.57709	7.98771	5.53178	0.1813993	0.29265450	2.2468078	21	4 11.7	21.1
440449 2005 SJ_{76}	17.1	X	56.11003	144.37298	187.22017	6.17853	0.1962413	0.19299809	2.9655190	21	12 13.4	21.4
440450 2005 SE_{88}	16.3	X	273.20931	114.44274	358.36999	10.42892	0.0791414	0.18744108	3.0238450	21	10 30.1	20.6
440451 2005 SD_{92}	16.1	X	12.66032	337.08996	16.47227	9.74152	0.0713022	0.18542290	3.0457469	21	10 23.9	20.0
440452 2005 SL_{92}	18.3	X	252.62460	133.42234	201.92069	3.80764	0.1605997	0.28881720	2.2666650	21	3 28.9	21.5
440453 2005 SP_{97}	16.1	X	12.97835	340.34027	20.17647	10.87812	0.1115003	0.18853335	3.0121546	21	11 6.0	19.9
440454 2005 SO_{98}	17.6	X	142.55854	191.00273	243.40997	6.01639	0.1430614	0.28286310	2.2983624	21	4 16.1	20.7
440455 2005 SZ_{132}	16.5	X	2.37523	140.51358	210.91663	10.97419	0.0875134	0.18261961	3.0768367	21	10 7.1	20.4
440456 2005 SR_{149}	16.7	X	19.25409	277.32650	82.46241	2.13050	0.1516463	0.18814618	3.0162855	21	11 22.2	20.2
440457 2005 SG_{151}	16.6	X	1.42381	286.29370	75.12185	2.21283	0.1272416	0.18512505	3.0490128	21	10 23.8	20.1
440458 2005 SW_{158}	16.1	X	44.65086	316.73240	359.94179	9.80404	0.1173664	0.18608549	3.0385126	21	10 26.4	20.2
440459 2005 SB_{160}	16.0	X	316.32959	185.19751	166.28090	23.16373	0.0815371	0.18015461	3.1048393	21	7 27.1	20.4
440460 2005 ST_{174}	16.4	X	27.13595	129.57160	223.24077	9.97946	0.1128734	0.18950830	3.0018148	21	11 20.2	20.3
440461 2005 SY_{175}	18.1	X	278.48083	87.45697	245.47428	3.82225	0.1500992	0.29335770	2.2432158	21	4 23.9	21.1
440462 2005 SC_{176}	18.3	X	180.12474	50.29309	357.85676	10.44887	0.1030516	0.28638337	2.2794891	21	4 17.3	21.6
440463 2005 SN_{182}	18.2	X	275.11440	79.84031	216.38234	5.52442	0.1882709	0.28741060	2.2740544	21	2 24.9	21.8
440464 2005 SH_{198}	16.1	X	350.50032	33.44116	347.82895	9.41117	0.1168373	0.18937806	3.0031909	21	10 27.2	19.8
440465 2005 ST_{200}	18.2	X	286.15800	236.57246	36.13407	2.10554	0.1453086	0.28556965	2.2838172	21	2 14.1	21.4
440466 2005 SH_{208}	16.4	X	43.89994	336.24409	357.10873	15.51512	0.1008988	0.18952005	3.0016907	21	11 10.5	20.8
440467 2005 SS_{221}	16.8	X	12.20933	83.09574	303.48022	12.52013	0.2842019	0.18900035	3.0071907	21	—	—
440468 2005 SM_{240}	16.2	X	199.34238	313.41506	225.41959	12.08330	0.0638863	0.18708954	3.0276317	21	10 28.2	20.7
440469 2005 SU_{241}	17.5	X	299.00067	23.53945	249.00963	4.24568	0.1312783	0.28613126	2.2808279	21	2 27.6	20.4
440470 2005 SF_{242}	16.3	X	312.41246	211.97240	210.08104	17.01061	0.2135213	0.18391835	3.0623348	21	10 8.7	19.7
440471 2005 SA_{243}	18.2	X	259.12591	83.52950	203.19644	9.52425	0.1321331	0.28099811	2.3085208	21	2 1.5	21.8
440472 2005 SA_{257}	16.7	X	52.95038	16.67627	317.46397	2.52466	0.1697639	0.19292324	2.9662860	21	12 8.8	20.9
440473 2005 SO_{263}	18.1	X	177.83022	324.49659	85.94688	3.14954	0.1954588	0.28494024	2.2871792	21	4 26.5	21.6
440474 2005 SU_{263}	17.8	X	255.95247	199.33301	142.92539	3.42250	0.2063026	0.29026518	2.2591206	21	4 8.3	21.1
440475 2005 SB_{269}	17.0	X	19.60228	317.48326	66.58224	2.97416	0.0816336	0.19145211	2.9814620	21	12 14.5	20.8
440476 2005 SQ_{271}	15.7	X	11.37190	352.68321	342.12268	20.00602	0.1134707	0.18361145	3.0657463	21	9 26.1	19.6
440477 2005 SK_{288}	16.3	X	323.98679	22.13365	63.71991	12.24864	0.0577168	0.19172108	2.9786729	21	12 11.2	20.3
440478 2005 ST_{288}	16.1	X	106.81483	119.11407	144.40536	12.74102	0.0644275	0.18534231	3.0466296	21	11 4.6	20.8
440479 2005 TX_{6}	18.1	X	40.91429	54.97159	4.23157	20.14197	0.1326461	0.38798385	1.8617739	21	—	—
440480 2005 TU_{13}	16.8	X	356.60825	183.67971	214.39946	7.21243	0.2364218	0.18892218	3.0080202	21	12 13.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440481 2005 TX_{13}	18.1	X	273.10403	129.66446	180.07507	5.23103	0.1631836	0.29045064	2.2581589	21	3 16.6	21.4
440482 2005 TY_{16}	17.9	X	259.70678	302.70495	57.38154	0.98871	0.2533158	0.29486453	2.2355670	21	4 29.4	21.2
440483 2005 TY_{45}	17.3	X	219.60349	162.78543	184.59680	6.23141	0.1296706	0.28331109	2.2959390	21	3 13.3	20.7
440484 2005 TO_{47}	17.0	X	3.28352	164.66261	215.37309	5.29919	0.2215100	0.18689476	3.0297349	21	11 30.6	20.3
440485 2005 TR_{47}	17.8	X	121.76863	173.64801	213.78615	4.33304	0.1470707	0.27145893	2.3622904	21	1 20.3	20.7
440486 2005 TB_{50}	18.0	X	262.19475	33.92486	298.79020	2.30780	0.2542852	0.29068824	2.2569282	21	3 26.3	21.7
440487 2005 TS_{60}	17.0	X	10.49147	9.76154	0.33059	9.45685	0.1151367	0.18892767	3.0079620	21	11 14.2	20.8
440488 2005 TE_{84}	18.3	X	130.44013	98.63800	337.94298	3.31975	0.1303988	0.28115556	2.3076588	21	4 3.8	21.4
440489 2005 TT_{85}	17.0	X	42.48784	134.61751	204.07977	15.64798	0.2468968	0.19103294	2.9858217	21	12 12.4	21.3
440490 2005 TM_{101}	17.8	X	223.76640	283.04729	90.44064	4.16690	0.1845912	0.28853817	2.2681261	21	4 20.6	21.3
440491 2005 TA_{102}	17.2	X	63.02179	353.68914	307.75124	2.63246	0.2853063	0.18977524	2.9989992	21	11 24.5	21.7
440492 2005 TK_{106}	16.9	X	11.29454	153.10858	226.38527	2.11603	0.1448715	0.18843723	3.0131789	21	12 4.1	20.4
440493 2005 TU_{110}	17.8	X	283.71554	357.21295	281.43745	2.88027	0.1716324	0.28716235	2.2753649	21	2 14.1	21.2
440494 2005 TW_{111}	16.7	X	18.90952	352.25548	5.09811	10.38273	0.0933726	0.18849110	3.0126047	21	11 7.7	20.7
440495 2005 TZ_{112}	16.6	X	337.35109	100.12436	207.38981	9.08433	0.0748920	0.17331406	3.1860079	21	7 1.7	20.9
440496 2005 TA_{134}	16.4	X	28.03065	92.81232	260.21066	8.02563	0.1499167	0.18951414	3.0017531	21	11 26.0	20.2
440497 2005 TX_{141}	18.5	X	211.18461	247.61498	117.24163	2.76055	0.1245377	0.28514431	2.2860878	21	3 29.3	21.8
440498 2005 TO_{144}	17.9	X	210.26292	318.06287	69.80883	4.40624	0.1623678	0.28810508	2.2703986	21	4 26.7	21.3
440499 2005 TZ_{146}	16.7	X	303.76673	359.02638	84.10445	4.53601	0.0662390	0.18771502	3.0209025	21	11 9.9	20.7
440500 2005 TP_{162}	16.3	X	215.64198	255.29976	218.69912	10.30831	0.0236466	0.17674235	3.1446740	21	8 27.4	21.0
440501 2005 TX_{166}	17.7	X	113.56866	103.25919	18.20657	5.46954	0.1382112	0.28348759	2.2949859	21	5 15.8	20.8
440502 2005 TG_{187}	16.7	X	8.42546	175.59458	114.91339	2.23309	0.1605598	0.17807361	3.1289816	21	8 1.6	20.2
440503 2005 TW_{193}	16.5	X	151.46044	189.49677	34.80582	10.03555	0.0406072	0.18627339	3.0364689	21	10 31.6	21.0
440504 2005 TY_{193}	16.6	X	13.87933	70.52707	250.10268	4.17798	0.1751130	0.18098869	3.0952930	21	9 21.8	20.2
440505 2005 TC_{194}	17.2	X	30.89112	272.91268	89.57874	3.72011	0.2270792	0.19048806	2.9915129	21	12 23.8	20.9
440506 2005 TC_{196}	16.9	X	9.81393	172.64982	209.57431	12.80359	0.1183391	0.19078275	2.9884315	21	12 3.1	20.7
440507 2005 UF_{25}	16.6	X	0.78185	108.54574	229.37172	5.87955	0.1225243	0.17965743	3.1105648	21	9 17.1	20.4
440508 2005 UW_{27}	16.5	X	74.18043	69.45744	238.76906	1.51281	0.1779261	0.18897649	3.0074439	21	12 1.7	21.1
440509 2005 UW_{30}	17.0	X	51.19847	126.75045	212.00031	3.63109	0.2046918	0.18997186	2.9969295	21	12 16.7	21.2
440510 2005 UD_{35}	16.2	X	10.04595	160.41084	225.90535	11.16150	0.0787656	0.18693744	3.0292738	21	12 3.2	20.1
440511 2005 UM_{35}	17.6	X	324.59264	3.75901	50.42792	1.77476	0.1998961	0.18273753	3.0755129	21	10 25.3	20.6
440512 2005 UZ_{35}	17.8	X	10.55723	123.62467	49.61239	7.84177	0.0867705	0.27388939	2.3482946	21	2 10.3	20.4
440513 2005 UB_{36}	16.9	X	283.12931	35.86559	30.08151	0.54579	0.1625101	0.17632906	3.1495859	21	9 4.5	20.9
440514 2005 US_{39}	16.9	X	348.37076	312.58989	66.30728	1.66933	0.1771786	0.18185803	3.0854207	21	10 25.6	20.1
440515 2005 UT_{41}	18.7	X	198.70698	26.08486	21.63208	4.35058	0.2440675	0.28719163	2.2752102	21	5 9.3	22.5
440516 2005 US_{56}	17.7	X	181.68072	46.02260	355.56155	5.55513	0.1611354	0.28372529	2.2937039	21	4 14.7	21.3
440517 2005 UQ_{60}	16.6	X	358.55306	291.02252	54.87664	2.39862	0.0878666	0.17837579	3.1254468	21	9 25.8	20.4
440518 2005 UQ_{70}	15.6	X	327.64637	161.02746	248.92789	8.56501	0.0572596	0.18573511	3.0423327	21	10 30.4	19.7
440519 2005 UT_{72}	17.0	X	358.74159	206.64816	209.83797	4.30702	0.3271781	0.18907001	3.0064521	21	—	—
440520 2005 UP_{82}	18.5	X	177.87964	12.16447	44.63466	1.18060	0.1950395	0.28513427	2.2861415	21	5 3.6	22.2
440521 2005 UW_{84}	16.6	X	26.38018	127.02067	209.04092	8.53488	0.1031202	0.18378464	3.0638200	21	10 26.4	20.4
440522 2005 UQ_{87}	16.8	X	19.56567	303.03023	44.88098	10.50995	0.1117425	0.18487514	3.0517600	21	11 2.1	20.5
440523 2005 UH_{88}	17.6	X	256.16420	272.24586	55.67807	3.00918	0.1873915	0.28767084	2.2726828	21	3 22.7	21.0
440524 2005 UA_{89}	16.7	X	25.98500	342.28984	344.05808	6.29162	0.1186151	0.18218705	3.0817049	21	10 12.7	20.7
440525 2005 UX_{89}	17.6	X	153.00406	104.50095	317.40582	4.28684	0.1186860	0.28115560	2.3076586	21	4 8.2	20.8
440526 2005 UD_{92}	15.7	X	179.56915	284.55187	249.88472	9.73413	0.0818511	0.17864913	3.1222580	21	9 26.5	20.6
440527 2005 UJ_{95}	16.8	X	304.30755	312.85670	99.37257	2.60123	0.1833212	0.17893498	3.1189318	21	9 17.0	20.5
440528 2005 UN_{99}	16.2	X	329.64845	337.19416	73.95060	10.52965	0.0539615	0.18395551	3.0619224	21	11 7.7	20.2
440529 2005 UB_{100}	16.6	X	326.19740	196.61342	204.41915	10.98425	0.2070012	0.18146556	3.0898678	21	10 8.5	19.8
440530 2005 UU_{101}	17.9	X	167.81427	269.91541	87.30977	3.27647	0.2341467	0.27579212	2.3374813	21	2 13.0	21.6
440531 2005 UX_{105}	18.1	X	199.04141	222.67237	164.83340	2.57325	0.2171978	0.28424311	2.2909173	21	4 15.7	22.0
440532 2005 UE_{120}	18.3	X	180.25584	14.94472	21.27725	2.08184	0.1412489	0.28295546	2.2978623	21	4 7.1	21.5
440533 2005 UD_{129}	16.9	X	308.90942	162.47362	235.21124	0.28249	0.1420303	0.17768969	3.1334870	21	9 9.1	20.7
440534 2005 UA_{136}	16.4	X	327.53784	24.69268	28.69074	11.97870	0.0697503	0.18730491	3.0253104	21	11 3.5	20.2
440535 2005 UA_{147}	16.4	X	340.91600	121.55804	255.20373	4.26821	0.1448922	0.18126691	3.0921249	21	10 5.4	19.9
440536 2005 UL_{152}	17.6	X	294.80538	53.09493	239.26276	5.49946	0.0772119	0.28406861	2.2918554	21	3 29.9	20.4
440537 2005 UK_{158}	17.6	X	240.60068	248.81961	232.62863	19.55654	0.0782659	0.36941979	1.9236348	21	10 28.1	19.4
440538 2005 UJ_{165}	17.1	X	348.70851	148.17651	207.90903	0.56828	0.0904416	0.17995863	3.1070931	21	9 22.8	21.0
440539 2005 UA_{177}	16.9	X	7.19425	357.27684	8.08707	2.06847	0.1903356	0.18423151	3.0588636	21	11 12.7	20.2
440540 2005 UR_{180}	16.0	X	336.73334	150.17947	222.98326	12.78783	0.0512153	0.17750872	3.1356164	21	9 23.5	20.3
440541 2005 UH_{186}	16.2	X	295.73848	9.28060	59.00031	9.19087	0.1601771	0.17836058	3.1256245	21	9 30.9	20.2
440542 2005 UW_{195}	16.9	X	15.04163	171.83725	195.84068	4.97676	0.1805014	0.18837639	3.0138275	21	11 30.1	20.5
440543 2005 UQ_{196}	16.6	X	31.19039	230.78707	72.88758	2.13668	0.1757418	0.18045619	3.1013791	21	10 2.2	20.4
440544 2005 UU_{218}	16.4	X	353.13198	107.97603	231.48197	16.40140	0.2579268	0.18084117	3.0969760	21	9 4.1	19.6
440545 2005 UQ_{222}	16.6	X	271.22867	233.93646	239.91090	5.29992	0.0604331	0.18519891	3.0482021	21	11 2.9	20.6
440546 2005 UT_{224}	16.9	X	25.60884	82.86177	260.05952	4.61587	0.1463919	0.18569502	3.0427706	21	11 7.9	20.7
440547 2005 UJ_{225}	16.8	X	51.01778	44.98285	296.46303	3.32534	0.1601653	0.19003849	2.9962290	21	12 13.6	20.9
440548 2005 UD_{236}	17.5	X	72.65378	338.86901	77.98105	7.02829	0.1020838	0.26548575	2.3975918	21	—	—
440549 2005 UN_{237}	16.7	X	30.22262	141.83858	209.27546	11.15917	0.1257890	0.18524516	3.0476948	21	11 23.7	20.7
440550 2005 UX_{253}	16.3	X	333.39793	344.23272	35.50427	5.71560	0.1651187	0.18191935	3.0847274	21	9 28.9	19.7
440551 2005 US_{254}	16.6	X	52.70121	219.80226	70.58506	7.46521	0.0316390	0.17751641	3.1355258	21	9 27.9	21.0
440552 2005 UF_{261}	16.7	X	343.66748	154.80398	215.27296	5.11929	0.1658894	0.17864077	3.1223553	21	10 1.8	20.2
440553 2005 UH_{261}	16.3	X	336.23268	188.47193	228.00148	10.80983	0.2230678	0.18370238	3.0647345	21	11 22.4	19.1
440554 2005 UP_{263}	17.0	X	253.89441	319.24548	118.61588	2.03692	0.0602908	0.17529637	3.1619434	21	8 28.3	21.4
440555 2005 UX_{264}	16.6	X	294.86711	2.63856	56.00770	0.74540	0.1823843	0.17920407	3.1158089	21	9 9.5	20.5
440556 2005 UD_{265}	17.1	X	256.16811	346.64390	109.14437	2.58172	0.1739502	0.17529997	3.1619001	21	9 7.5	21.7
440557 2005 UG_{278}	18.1	X	222.42597	344.50147	36.37812	2.26181	0.2190469	0.28819158	2.2699442	21	4 25.9	21.9
440558 2005 UN_{297}	16.7	X	300.72128	203.78629	210.95678	0.43174	0.1590475	0.17776622	3.1325876	21	9 16.2	20.5
440559 2005 UO_{299}	16.5	X	7.87307	270.11070	53.53962	10.86198	0.1017586	0.17643438	3.1483324	21	9 16.9	20.6
440560 2005 UA_{311}	17.1	X	276.80797	346.14235	93.94864	2.16851	0.1473113	0.18006926	3.1058204	21	9 17.5	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440561 2005 UM_{324}	18.2	X	187.86754	280.37545	75.54332	3.23726	0.2253092	0.27890396	2.3200620	21	2 27.8	22.0
440562 2005 UD_{325}	16.7	X	331.68533	326.82946	60.44911	3.48521	0.1287292	0.18363724	3.0654592	21	10 7.5	20.2
440563 2005 US_{327}	18.3	X	268.87478	332.23650	5.37980	3.40598	0.1856817	0.28822533	2.2697671	21	4 15.4	21.6
440564 2005 UX_{329}	17.2	X	328.90699	271.49032	115.66114	2.27049	0.1930517	0.17955414	3.1117576	21	9 27.5	20.4
440565 2005 UX_{331}	16.2	X	9.45061	278.59494	69.48915	11.47461	0.0891802	0.18110234	3.0939979	21	10 19.6	20.2
440566 2005 UG_{332}	16.6	X	44.96627	344.62176	354.55995	2.63987	0.2867876	0.19023794	2.9941345	21	12 21.2	20.9
440567 2005 UK_{355}	17.4	X	170.04108	110.03286	261.84186	5.84486	0.2451771	0.27705215	2.3303887	21	3 1.4	21.3
440568 2005 UP_{360}	16.6	X	135.94375	215.05055	36.49099	12.43562	0.0595756	0.18818267	3.0158956	21	11 15.8	21.1
440569 2005 UX_{382}	17.6	X	251.47500	263.57851	73.97221	7.34367	0.1847857	0.28710618	2.2756616	21	4 2.3	21.1
440570 2005 UJ_{385}	16.3	X	3.41694	54.84134	291.64196	3.78322	0.1347548	0.18137296	3.0909195	21	10 4.4	19.9
440571 2005 UX_{395}	18.2	X	214.89018	37.46817	342.44672	5.00134	0.2406034	0.28672414	2.2776826	21	4 16.0	22.0
440572 2005 UG_{404}	16.9	X	302.76455	299.07715	113.29064	2.27872	0.1822594	0.17987058	3.1081069	21	9 14.6	20.5
440573 2005 UL_{407}	18.6	X	191.27295	284.87025	118.76962	2.03408	0.1034819	0.28662016	2.2782334	21	4 27.9	21.7
440574 2005 UE_{422}	16.4	X	320.66218	201.74611	221.36985	10.54032	0.0575610	0.18532782	3.0467885	21	11 7.8	20.3
440575 2005 UG_{424}	17.3	X	44.16692	106.83560	231.28692	2.66721	0.1761075	0.18868604	3.0105294	21	12 3.4	21.2
440576 2005 UN_{427}	17.8	X	247.86870	307.26810	26.22295	5.02718	0.2411712	0.28598477	2.2816067	21	3 19.0	21.4
440577 2005 UL_{446}	15.8	X	331.34427	180.01058	243.27324	10.21845	0.0912329	0.18789649	3.0189571	21	11 23.0	19.3
440578 2005 UT_{467}	17.7	X	196.53175	10.89580	20.88545	7.54182	0.1222342	0.28383576	2.2931087	21	4 16.8	20.9
440579 2005 UW_{467}	16.7	X	30.94829	334.87489	14.41220	6.73315	0.1937656	0.18648685	3.0341514	21	11 30.3	20.7
440580 2005 UG_{473}	17.9	X	199.03671	139.61418	251.44612	6.42033	0.1465310	0.28324978	2.2962702	21	4 17.2	21.4
440581 2005 UM_{477}	15.7	X	286.45497	127.00069	295.84965	7.90063	0.0959997	0.17974188	3.1095904	21	9 11.2	20.1
440582 2005 UU_{484}	16.4	X	327.53347	270.82099	135.47832	8.29933	0.2195883	0.18351230	3.0668505	21	10 23.1	19.6
440583 2005 UA_{489}	16.5	X	17.99340	124.98614	244.51709	10.59344	0.1356813	0.18830948	3.0145414	21	11 30.3	20.3
440584 2005 UH_{501}	16.1	X	289.73227	348.46589	97.52157	13.22817	0.2371190	0.18022265	3.1040578	21	10 5.9	20.2
440585 2005 UT_{502}	16.4	X	355.54087	252.47526	135.57115	11.82625	0.2530337	0.18519510	3.0482439	21	12 1.5	19.6
440586 2005 UN_{508}	17.5	X	242.83686	191.50997	137.04026	6.66806	0.2338561	0.28559371	2.2836890	21	3 9.3	21.2
440587 2005 UU_{510}	16.6	X	338.34649	273.31712	108.97340	2.73495	0.1099445	0.17891223	3.1191962	21	10 11.8	20.4
440588 2005 UV_{511}	16.1	X	44.11594	61.93443	249.53731	10.94504	0.0680728	0.17860598	3.1227608	21	10 10.6	20.6
440589 2005 UM_{519}	16.7	X	0.21422	239.49980	171.89480	9.38186	0.2187985	0.19117142	2.9843797	21	—	—
440590 2005 UQ_{523}	16.7	X	353.92277	174.22347	181.93135	8.63539	0.1064094	0.18393201	3.0621833	21	10 2.8	20.5
440591 2005 UP_{525}	16.6	X	353.26286	325.05560	54.38575	11.30343	0.1514044	0.18300086	3.0725618	21	11 4.4	20.0
440592 2005 UE_{526}	16.8	X	30.90985	283.99084	56.61243	23.16166	0.2297363	0.18591696	3.0403486	21	11 24.7	20.6
440593 2005 UW_{526}	17.8	X	29.62855	129.42031	54.01581	9.49337	0.0518138	0.27744169	2.3282069	21	3 30.9	20.4
440594 2005 UH_{529}	16.5	X	319.02002	221.70843	240.95574	9.26730	0.0764967	0.18959613	3.0008877	21	12 24.5	20.3
440595 2005 VG_{8}	17.2	X	48.98995	129.97966	217.96558	1.34824	0.1210916	0.19014909	2.9950671	21	12 13.7	21.2
440596 2005 VY_{10}	16.4	X	302.23743	326.79729	90.05899	5.06599	0.2021296	0.17818580	3.1276680	21	9 18.3	20.1
440597 2005 VY_{25}	17.7	X	270.76962	21.56752	264.97132	4.99848	0.1289342	0.28163211	2.3050549	21	2 14.4	21.2
440598 2005 VR_{31}	17.0	X	2.38850	121.42021	230.81389	5.92102	0.1861372	0.18022188	3.1040667	21	10 15.0	20.3
440599 2005 VC_{32}	16.6	X	21.03390	289.74392	71.71677	6.71797	0.0952334	0.18361840	3.0656689	21	11 19.2	20.6
440600 2005 VD_{32}	18.4	X	155.60582	195.97996	221.05387	3.61163	0.2094945	0.27924433	2.3181764	21	4 14.2	22.1
440601 2005 VC_{33}	17.8	X	84.72235	32.74069	68.51044	5.61154	0.1757969	0.27201641	2.3590618	21	3 17.9	20.3
440602 2005 VT_{54}	16.3	X	17.34176	241.25113	66.22790	12.03619	0.0922071	0.17542471	3.1604011	21	9 10.4	20.5
440603 2005 VQ_{62}	18.4	X	262.38931	95.29246	223.72200	6.74191	0.1849984	0.28982942	2.2613845	21	3 13.2	21.9
440604 2005 VC_{66}	17.5	X	326.51841	144.82790	56.65511	7.70763	0.0742333	0.27318651	2.3523208	21	1 13.5	20.5
440605 2005 VS_{67}	16.5	X	0.94270	100.80106	237.99545	9.88917	0.0844870	0.17752342	3.1354432	21	9 14.4	20.6
440606 2005 VK_{72}	16.3	X	13.68695	306.98640	79.28520	4.49469	0.2125737	0.18722991	3.0261182	21	12 25.3	19.8
440607 2005 VB_{76}	17.6	X	238.36371	289.36353	72.17415	6.60218	0.1821130	0.28942583	2.2634862	21	4 19.5	21.0
440608 2005 VM_{80}	17.0	X	346.90346	263.65567	105.85116	2.17556	0.2261457	0.18248666	3.0783308	21	10 11.8	20.0
440609 2005 VQ_{95}	18.1	X	135.46564	338.90315	96.17729	3.06832	0.1980301	0.27756815	2.3274997	21	4 18.9	21.4
440610 2005 VJ_{101}	15.8	X	88.68188	236.76314	19.52332	14.31051	0.1063200	0.18089757	3.0963323	21	10 7.5	20.3
440611 2005 VO_{112}	15.5	X	301.78870	170.68140	243.71516	16.67950	0.1723671	0.17737060	3.1372439	21	9 7.6	19.8
440612 2005 VJ_{114}	18.1	X	118.05200	209.96054	243.21442	6.27431	0.0896960	0.27744772	2.3281732	21	4 3.9	21.1
440613 2005 VD_{117}	18.0	X	224.16307	118.90832	246.04428	3.50243	0.1828962	0.28536310	2.2849192	21	4 7.1	21.5
440614 2005 VM_{117}	16.6	X	321.04516	6.70775	32.48076	1.19959	0.1722848	0.17957357	3.1115332	21	9 29.5	20.1
440615 2005 VW_{117}	15.9	X	333.13012	277.64095	137.73685	12.30757	0.1791477	0.18383891	3.0632169	21	11 18.3	19.4
440616 2005 VA_{130}	17.9	X	270.80351	122.51246	176.39970	7.11307	0.1494929	0.28657346	2.2784810	21	3 1.1	21.1
440617 2005 WQ_{2}	16.1	X	303.16582	83.96503	12.20031	23.61313	0.2975816	0.18131875	3.0915355	21	10 19.8	19.6
440618 2005 WJ_{3}	16.1	X	255.33509	331.25936	116.84377	5.42861	0.2451283	0.17121874	3.2119481	21	8 19.0	21.0
440619 2005 WS_{9}	17.9	X	180.89944	165.75625	243.02811	5.82493	0.2216991	0.28289547	2.2981871	21	4 25.8	21.8
440620 2005 WG_{10}	15.9	X	353.59404	331.60113	63.04989	14.04871	0.1945763	0.18470201	3.0536667	21	11 27.3	19.1
440621 2005 WV_{12}	18.0	X	175.75478	93.61088	245.56306	5.03060	0.2270775	0.27263157	2.3555118	21	1 26.1	21.7
440622 2005 WV_{22}	16.1	X	134.23870	339.39939	253.60363	10.67713	0.0849811	0.17934240	3.1142064	21	10 21.9	21.1
440623 2005 WH_{27}	18.5	X	265.37782	318.57465	40.52572	2.57764	0.2921774	0.29224415	2.2489105	21	4 29.8	21.9
440624 2005 WS_{33}	15.9	X	10.85544	104.17476	268.92462	9.21866	0.1458770	0.18243891	3.0788680	21	11 23.1	19.6
440625 2005 WA_{34}	17.3	X	177.83301	330.68831	67.21583	10.27872	0.1916619	0.27941930	2.3172085	21	4 13.9	21.1
440626 2005 WG_{38}	18.2	X	182.87994	175.38381	209.04545	1.63469	0.2003804	0.27907632	2.3191067	21	3 27.9	21.7
440627 2005 WS_{45}	16.4	X	357.51587	288.95806	65.53208	10.46930	0.1058986	0.17772759	3.1330415	21	10 10.1	20.4
440628 2005 WL_{48}	15.6	X	29.24343	250.82510	71.78796	11.18609	0.1322360	0.17720213	3.1392320	21	10 20.8	19.7
440629 2005 WC_{51}	18.3	X	172.86813	130.08802	270.90959	1.42157	0.2144421	0.27944235	2.3170811	21	4 9.4	22.0
440630 2005 WH_{59}	15.5	X	307.22506	334.07421	93.65268	19.04557	0.1816897	0.18006105	3.1059147	21	10 22.4	19.5
440631 2005 WD_{65}	16.7	X	166.13177	180.23073	258.18849	23.46054	0.1742898	0.28879447	2.2667840	21	5 19.6	20.3
440632 2005 WN_{69}	16.5	X	316.95017	320.24737	78.97792	3.98613	0.0899704	0.17648868	3.1476865	21	10 1.5	20.5
440633 2005 WC_{71}	17.9	X	239.61380	58.68454	301.94270	3.80878	0.2990299	0.28853625	2.2681362	21	4 8.8	21.9
440634 2005 WN_{71}	16.0	X	329.33865	154.45380	271.96008	9.14179	0.1768608	0.18424208	3.0587465	21	11 20.6	19.4
440635 2005 WM_{72}	15.2	X	309.86841	166.78503	253.73980	16.19320	0.1037686	0.17958251	3.1114300	21	10 9.6	19.5
440636 2005 WM_{75}	18.2	X	159.39185	11.39768	33.30720	5.52428	0.1254331	0.27888398	2.3201729	21	3 28.1	21.4
440637 2005 WJ_{82}	17.8	X	250.29472	129.12935	218.10391	2.66538	0.2273833	0.28838570	2.2689255	21	4 6.1	21.2
440638 2005 WS_{83}	18.1	X	140.64968	66.65465	32.52409	1.74110	0.2024278	0.28170984	2.3046309	21	5 24.6	21.6
440639 2005 WP_{87}	15.6	X	316.98571	124.35004	273.31251	25.66295	0.1548155	0.17396265	3.1780841	21	9 4.5	20.1
440640 2005 WM_{90}	16.4	X	6.97334	137.02135	266.52857	6.97151	0.4407013	0.18755680	3.0226011	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440641 2005 WK_{106}	17.2	X	359.40940	167.54936	217.40400	4.86080	0.1547981	0.18520274	3.0481602	21	11 22.2	20.6
440642 2005 WP_{107}	16.1	X	348.15438	311.80808	80.46713	10.26240	0.1113090	0.18283464	3.0744238	21	11 11.7	19.9
440643 2005 WL_{108}	18.2	X	143.06887	344.10855	77.58591	2.71672	0.1646355	0.27801171	2.3250234	21	4 5.5	21.6
440644 2005 WT_{116}	16.1	X	5.28468	283.56815	85.54117	11.75604	0.0780763	0.18053490	3.1004777	21	11 7.2	20.2
440645 2005 WB_{117}	17.6	X	171.39378	50.50790	350.75331	6.51121	0.1676743	0.28023686	2.3126995	21	4 4.8	21.2
440646 2005 WM_{127}	17.2	X	294.66321	184.50148	225.73694	0.93569	0.1756524	0.17568049	3.1573328	21	8 29.0	21.2
440647 2005 WY_{135}	16.4	X	36.32006	60.15323	256.08972	6.52328	0.1751129	0.17909181	3.1171108	21	10 22.7	20.5
440648 2005 WB_{164}	18.0	X	151.22346	301.24575	63.10186	4.37229	0.0360367	0.26714252	2.3876685	21	1 14.4	21.1
440649 2005 WO_{164}	17.4	X	30.65784	251.93431	86.96320	2.58901	0.2484730	0.18559997	3.0438094	21	11 26.6	21.1
440650 2005 WL_{166}	16.5	X	347.62407	1.66950	92.17466	11.59452	0.1217918	0.18817301	3.0159988	21	—	—
440651 2005 WN_{177}	17.7	X	197.88677	78.07166	283.94995	6.13271	0.1210415	0.27450298	2.3447939	21	3 8.6	21.2
440652 2005 WE_{178}	15.4	X	7.97135	243.77541	90.57365	28.18222	0.2893054	0.17556697	3.1586937	21	10 31.4	19.2
440653 2005 WK_{178}	17.4	X	152.17858	342.31536	82.47910	8.76501	0.1153780	0.27651992	2.3333780	21	4 17.7	20.8
440654 2005 WB_{184}	15.1	X	239.91304	211.94368	271.43749	24.99933	0.1408188	0.17379772	3.1800943	21	9 12.3	20.5
440655 2005 WQ_{207}	15.6	X	24.94529	61.66522	258.58521	25.62769	0.1351201	0.17639466	3.1488049	21	9 25.4	20.1
440656 2005 WJ_{208}	16.1	X	233.98300	42.84089	83.04831	11.13929	0.0799691	0.17505619	3.1648349	21	10 6.1	20.9
440657 2005 XM_{1}	16.0	X	57.51925	67.29379	253.71799	8.06678	0.0589843	0.18233332	3.0800566	21	11 10.4	20.4
440658 2005 XN_{14}	16.1	X	7.24240	264.57911	96.46464	15.79346	0.0253451	0.17737049	3.1372453	21	10 29.9	20.7
440659 2005 XF_{25}	17.3	X	355.70690	141.87110	265.77493	2.01644	0.1163055	0.18817964	3.0159280	21	12 12.3	20.7
440660 2005 XM_{28}	17.7	X	216.41048	240.08048	155.15392	5.26932	0.1998163	0.28724559	2.2749253	21	5 11.5	21.4
440661 2005 XG_{34}	17.1	X	322.85512	124.59428	242.29740	5.35316	0.1594442	0.17223020	3.1993604	21	8 17.5	20.9
440662 2005 XB_{36}	18.1	X	165.27761	322.78174	67.00893	3.83911	0.1517062	0.27431819	2.3458468	21	3 18.2	21.5
440663 2005 XO_{58}	16.7	X	25.07512	109.80227	258.18650	4.39253	0.2417397	0.18643367	3.0347284	21	12 23.7	20.3
440664 2005 XV_{61}	18.5	X	129.05316	268.28334	167.92193	1.08374	0.1536273	0.27838179	2.3229623	21	4 6.5	21.4
440665 2005 XT_{62}	16.4	X	11.16728	300.31597	56.18174	3.80945	0.0529163	0.17858472	3.1230087	21	10 25.2	20.4
440666 2005 XH_{63}	17.3	X	31.96842	222.66681	271.60348	6.25901	0.0447008	0.26772962	2.3841767	21	1 19.9	20.0
440667 2005 XV_{67}	16.3	X	316.86791	319.26746	62.19656	5.68173	0.1415563	0.17389750	3.1788777	21	9 3.6	20.2
440668 2005 XU_{81}	16.1	X	359.57705	242.28734	85.23137	15.59031	0.2023554	0.17232371	3.1982030	21	9 15.3	19.9
440669 2005 XJ_{82}	16.8	X	359.69428	322.47129	61.52865	10.31405	0.0978471	0.18293937	3.0732503	21	11 16.4	20.6
440670 2005 YL_{4}	17.8	X	202.35549	128.62668	282.21559	3.42100	0.2317849	0.28387127	2.2929175	21	5 16.6	21.5
440671 2005 YV_{16}	18.4	X	171.19404	139.02736	270.61940	1.53041	0.1975795	0.27681005	2.3317473	21	4 18.3	22.0
440672 2005 YU_{17}	18.0	X	11.30530	131.68484	51.68839	6.89419	0.0269701	0.27434130	2.3457151	21	3 2.9	20.8
440673 2005 YC_{19}	16.1	X	146.21247	295.11599	266.61563	6.57349	0.1305167	0.17224608	3.1991638	21	9 27.2	21.3
440674 2005 YJ_{19}	17.1	X	302.03234	173.25833	83.13451	8.33237	0.0847335	0.27370741	2.3493354	21	2 24.8	20.2
440675 2005 YP_{20}	17.1	X	231.82973	68.32368	96.96959	5.05575	0.1678027	0.23963549	2.5670557	21	11 13.9	20.7
440676 2005 YE_{27}	17.5	X	64.57059	155.11212	301.00768	5.68372	0.0915554	0.26363615	2.4087926	21	1 21.7	20.0
440677 2005 YJ_{31}	16.4	X	226.99498	1.92967	110.97880	6.72232	0.0945607	0.16741004	3.2604813	21	9 6.7	21.3
440678 2005 YU_{33}	16.5	X	274.48503	154.21925	287.43032	18.78999	0.1135820	0.17140976	3.2095614	21	9 8.5	21.4
440679 2005 YV_{36}	17.3	X	156.35146	101.97437	296.85658	11.38698	0.1664782	0.27184769	2.3600378	21	3 13.9	21.1
440680 2005 YW_{36}	17.9	X	45.77105	208.23017	188.64743	22.81434	0.5312134	0.19809900	2.9143913	21	—	—
440681 2005 YG_{37}	15.3	X	324.72221	114.55726	274.94521	25.31527	0.1953508	0.17758121	3.1347629	21	9 3.7	19.5
440682 2005 YX_{41}	17.4	X	163.27324	129.56615	304.81403	4.00720	0.2112484	0.27908357	2.3190665	21	5 12.9	21.2
440683 2005 YG_{56}	17.7	X	86.57198	101.43275	286.29064	19.42151	0.1086079	0.38541755	1.8700292	21	—	—
440684 2005 YC_{59}	16.0	X	336.25968	318.71666	100.84408	9.50448	0.2250852	0.18154241	3.0889959	21	11 27.7	19.1
440685 2005 YU_{61}	16.6	X	353.07122	323.34336	50.59716	1.49156	0.1797989	0.17665471	3.1457140	21	10 26.8	19.9
440686 2005 YJ_{62}	16.5	X	321.50588	315.05549	76.53308	2.63893	0.1753370	0.17370190	3.1812636	21	9 20.1	20.1
440687 2005 YV_{62}	18.1	X	132.59941	113.36997	293.40596	6.05199	0.1265661	0.26969238	2.3725949	21	2 25.1	21.2
440688 2005 YF_{64}	18.4	X	154.07998	339.15723	81.58160	2.51293	0.1778174	0.27574704	2.3377361	21	4 16.9	21.8
440689 2005 YK_{68}	15.8	X	41.05015	297.92719	98.42985	10.86966	0.0787874	0.18721524	3.0262763	21	—	—
440690 2005 YO_{73}	18.4	X	109.87675	8.21254	68.15055	2.51206	0.1621048	0.27070217	2.3666910	21	3 16.7	21.3
440691 2005 YP_{73}	17.1	X	162.37003	260.18062	84.86064	6.89445	0.1736441	0.26571983	2.3961835	21	1 19.7	20.6
440692 2005 YY_{73}	16.3	X	341.06275	105.59651	297.43990	6.78299	0.1762757	0.17966851	3.1104370	21	11 9.6	19.8
440693 2005 YJ_{81}	16.5	X	277.90492	329.57846	109.48884	6.91834	0.1054650	0.17225656	3.1990341	21	9 25.3	20.9
440694 2005 YF_{82}	17.0	X	242.17309	33.58281	280.53791	5.77707	0.1171731	0.27024168	2.3693788	21	2 21.8	20.6
440695 2005 YV_{83}	17.4	X	196.25705	230.97982	124.33134	7.27303	0.1410147	0.27113605	2.3641655	21	3 4.7	21.0
440696 2005 YM_{93}	17.5	X	243.59779	229.19443	288.91623	17.20793	0.0609256	0.37004928	1.9214526	21	—	—
440697 2005 YD_{94}	17.6	X	141.48351	137.47355	324.09034	5.33135	0.1606240	0.27852909	2.3221433	21	5 24.0	21.1
440698 2005 YK_{94}	17.5	X	254.96862	206.25649	305.88011	17.82173	0.0710496	0.36862541	1.9263973	21	—	—
440699 2005 YD_{96}	16.6	X	294.09355	135.90624	312.45986	9.25166	0.1815805	0.17652342	3.1472736	21	10 11.4	20.8
440700 2005 YV_{100}	16.8	X	327.81687	102.19139	283.91743	14.05082	0.2642081	0.17479435	3.1679948	21	9 6.1	20.2
440701 2005 YW_{123}	16.0	X	341.09600	102.52797	302.28152	15.31345	0.2270937	0.17955355	3.1117645	21	11 10.4	19.5
440702 2005 YO_{125}	18.4	X	177.82145	32.26510	9.99690	2.67929	0.1592490	0.27731211	2.3289321	21	4 13.5	22.0
440703 2005 YF_{132}	17.3	X	194.98899	257.56686	119.91300	5.24305	0.1723364	0.27435471	2.3456386	21	4 1.4	21.0
440704 2005 YZ_{141}	16.2	X	332.13993	291.61284	100.02083	15.68530	0.1877472	0.17507371	3.1646238	21	10 17.5	20.0
440705 2005 YT_{153}	15.6	X	1.85074	257.29677	97.43817	14.03166	0.0914167	0.17204361	3.2016733	21	10 17.9	19.9
440706 2005 YS_{158}	18.0	X	182.77046	185.03133	223.44978	1.95979	0.2063104	0.27984342	2.3148667	21	4 27.7	21.6
440707 2005 YK_{173}	17.8	X	94.86573	122.18320	326.99649	6.95365	0.2034627	0.26965245	2.3728291	21	3 16.1	20.6
440708 2005 YG_{190}	16.3	X	319.68132	290.86511	100.75539	5.19693	0.1586546	0.17177111	3.2050586	21	9 19.6	20.1
440709 2005 YL_{190}	17.8	X	213.66892	267.31476	99.84116	4.84025	0.2151196	0.27800163	2.3250796	21	4 4.5	21.7
440710 2005 YV_{190}	17.7	X	182.98089	293.12122	107.60039	7.45621	0.2096257	0.27851038	2.3222473	21	4 21.9	21.6
440711 2005 YS_{195}	16.5	X	311.50142	306.14409	116.61484	28.29172	0.1586486	0.17622759	3.1507948	21	10 28.5	20.9
440712 2005 YR_{200}	18.1	X	100.05332	352.52433	110.48928	3.70622	0.1721739	0.27087227	2.3657001	21	4 11.4	20.9
440713 2005 YX_{200}	17.5	X	192.67139	253.81081	110.95476	4.58725	0.1661910	0.27176262	2.3605302	21	3 13.9	21.2
440714 2005 YK_{219}	16.8	X	289.16202	28.17589	18.15672	0.18310	0.1634841	0.17010090	3.2260045	21	8 17.9	21.0
440715 2005 YX_{231}	17.6	X	62.14687	210.71289	302.64710	4.24641	0.1732847	0.27105816	2.3646184	21	4 18.3	19.8
440716 2005 YP_{247}	18.2	X	91.84766	63.29810	23.93400	2.05899	0.1432272	0.26623540	2.3930890	21	3 2.4	20.8
440717 2005 YV_{248}	15.6	X	255.23418	188.41960	289.60069	15.84801	0.1585159	0.17597632	3.1537933	21	9 25.8	20.5
440718 2005 YA_{269}	16.1	X	288.99180	129.74992	311.29227	14.76541	0.2056972	0.17200937	3.2020981	21	9 17.5	20.5
440719 2005 YT_{286}	15.9	X	309.72698	297.46411	122.44668	14.04039	0.1263638	0.17271112	3.1934186	21	10 17.4	20.1
440720 2006 AZ_{24}	17.7	X	224.01114	284.32766	103.28590	6.89240	0.2114135	0.28425678	2.2908439	21	5 8.8	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440721 2006 AR_{27}	18.0	X	166.15239	286.13625	142.38883	4.85543	0.1803685	0.27786739	2.3258283	21	5 9.5	21.6
440722 2006 AV_{35}	17.5	X	234.23161	123.55441	116.81815	10.93091	0.1129317	0.25198399	2.4824895	21	—	—
440723 2006 AT_{37}	17.7	X	125.51389	112.49665	296.17130	5.50651	0.0966869	0.26602135	2.3943725	21	2 15.8	20.6
440724 2006 AS_{43}	17.7	X	216.68714	253.47288	105.46913	5.34299	0.2540921	0.27739831	2.3284496	21	3 27.5	21.7
440725 2006 AC_{44}	16.5	X	115.62291	152.05796	306.68416	24.14287	0.1796562	0.27109313	2.3644150	21	4 9.9	20.4
440726 2006 AN_{49}	16.0	X	351.03497	89.76367	300.84771	11.85958	0.1669801	0.17899772	3.1182030	21	11 9.8	19.8
440727 2006 AY_{54}	18.0	X	196.02912	120.83620	275.77045	7.43824	0.1885537	0.27879165	2.3206851	21	4 21.2	21.9
440728 2006 AO_{58}	18.3	X	194.26868	107.05803	302.20167	4.49392	0.1752922	0.28094807	2.3087949	21	5 6.9	21.9
440729 2006 AA_{71}	15.8	X	278.99016	53.26212	308.07194	18.49156	0.0199730	0.15477309	3.4356249	21	7 1.4	20.8
440730 2006 AJ_{88}	17.8	X	203.42594	95.25459	285.55259	6.00159	0.1526529	0.27736906	2.3286133	21	4 7.4	21.5
440731 2006 BA_{6}	15.7	X	291.17673	237.15248	274.38287	9.28285	0.1003274	0.18352597	3.0666981	21	—	—
440732 2006 BP_{8}	17.7	X	89.50282	351.00860	310.69759	18.38671	0.0476549	0.36560442	1.9369947	21	—	—
440733 2006 BS_{34}	15.7	X	15.55033	41.58710	314.13936	15.01320	0.1366761	0.17323789	3.1869418	21	10 30.3	20.0
440734 2006 BC_{35}	17.2	X	52.70638	184.48824	311.55635	6.46134	0.0633672	0.26635949	2.3923457	21	2 23.7	19.9
440735 2006 BY_{48}	18.0	X	340.58063	87.31452	311.78230	17.29707	0.1046182	0.36624487	1.9347359	21	12 26.2	19.7
440736 2006 BF_{52}	17.6	X	118.02814	77.15751	322.06858	6.63537	0.0897981	0.26127174	2.4233032	21	1 26.4	20.4
440737 2006 BA_{57}	17.3	X	195.02005	30.53383	308.17677	7.48434	0.0444076	0.26364293	2.4087513	21	2 4.6	20.6
440738 2006 BK_{59}	17.4	X	227.52206	261.96867	49.75157	2.82134	0.2057081	0.26651472	2.3914167	21	2 6.9	21.3
440739 2006 BT_{88}	17.1	X	170.62611	255.73552	129.22639	8.37399	0.1095718	0.26812383	2.3818392	21	3 15.8	20.6
440740 2006 BL_{118}	17.6	X	142.32076	251.34475	163.37852	6.49696	0.1012091	0.26650533	2.3914729	21	3 19.9	20.7
440741 2006 BM_{135}	16.2	X	343.99211	292.03968	112.95222	2.70088	0.1690446	0.17588184	3.1549226	21	11 19.7	19.7
440742 2006 BN_{146}	17.6	X	151.36444	97.95987	328.23211	8.88649	0.1358308	0.27313407	2.3526219	21	4 12.3	21.2
440743 2006 BF_{153}	17.4	X	181.43828	37.02197	332.23413	5.87493	0.1091431	0.26632129	2.3925744	21	3 3.8	20.9
440744 2006 BS_{228}	17.5	X	269.39673	235.39117	354.42080	4.16616	0.1599774	0.25350290	2.4725634	21	—	—
440745 2006 BQ_{254}	16.2	X	324.24194	270.29986	146.38439	16.35866	0.2654180	0.17478638	3.1680911	21	10 26.6	19.5
440746 2006 BV_{255}	17.0	X	279.58576	264.36846	334.22573	14.17589	0.0722042	0.25607726	2.4559642	21	1 9.3	20.6
440747 2006 BP_{269}	17.7	X	253.60563	146.10418	351.92411	18.82502	0.0818861	0.36332290	1.9450952	21	12 14.1	19.9
440748 2006 DX_{3}	17.9	X	136.66514	305.10527	339.17028	19.78323	0.0355987	0.36669879	1.9331389	21	—	—
440749 2006 DC_{5}	18.1	X	252.90678	69.68843	146.23987	1.12590	0.1226741	0.24545600	2.5263118	21	—	—
440750 2006 DP_{32}	16.9	X	248.76281	314.66907	167.65196	13.29817	0.1676565	0.23104767	2.6302780	21	10 9.8	20.6
440751 2006 DW_{32}	18.0	X	3.86551	253.92719	167.27583	22.72541	0.0956795	0.36866948	1.9262438	21	—	—
440752 2006 DA_{42}	17.5	X	284.63115	127.95708	345.91731	20.99725	0.0482610	0.36361083	1.9440683	21	—	—
440753 2006 DF_{83}	16.1	X	1.31682	263.74344	170.38419	19.47018	0.4216918	0.18517137	3.0485044	21	—	—
440754 2006 DV_{151}	17.8	X	297.35683	193.47879	332.82934	2.72797	0.1236347	0.24436172	2.5338483	21	—	—
440755 2006 DG_{168}	17.5	X	222.22007	98.30447	157.43308	13.80648	0.1393718	0.24439726	2.5336026	21	—	—
440756 2006 DC_{216}	18.1	X	351.95345	39.13372	5.36780	19.94675	0.0991695	0.36164886	1.9510930	21	—	—
440757 2006 DE_{216}	17.9	X	185.01782	100.54237	100.38444	0.71721	0.1045467	0.23097911	2.6307985	21	11 12.5	21.6
440758 2006 EV_{10}	17.4	X	196.31660	206.71938	49.33892	2.91040	0.1062012	0.24040409	2.5615813	21	—	—
440759 2006 ED_{20}	17.9	X	348.32461	82.03704	335.41158	18.49537	0.1054120	0.36926377	1.9241765	21	—	—
440760 2006 EX_{41}	16.4	X	200.06864	265.62127	347.83545	26.81058	0.3970293	0.23494756	2.6010903	21	—	—
440761 2006 EX_{44}	17.7	X	220.51642	245.76149	6.41962	6.50381	0.1524164	0.24440460	2.5335519	21	—	—
440762 2006 FJ_{15}	16.9	X	189.85564	148.73064	172.91249	7.03140	0.1123456	0.25286035	2.4767503	21	1 13.7	20.7
440763 2006 FE_{20}	17.1	X	168.92345	227.44826	31.24558	4.86533	0.1504104	0.23105361	2.6302330	21	—	—
440764 2006 FA_{54}	17.4	X	145.42499	67.15051	194.34653	14.47381	0.1847729	0.22807188	2.6531078	21	12 15.5	22.1
440765 2006 GV	17.7	X	61.74809	226.31689	168.00609	23.69044	0.0841336	0.37104754	1.9180048	21	—	—
440766 2006 GK_{5}	17.6	X	292.34778	57.01685	129.68446	5.04032	0.0847014	0.24537036	2.5268996	21	—	—
440767 2006 GR_{54}	17.7	X	60.88285	2.04555	102.92857	2.22998	0.1419101	0.25415753	2.4683158	21	2 4.2	20.1
440768 2006 HY_{8}	17.6	X	243.53467	268.45806	323.62456	1.44330	0.0956211	0.24395847	2.5366397	21	—	—
440769 2006 HS_{23}	16.7	X	9.64450	272.74649	204.70722	6.35958	0.0533159	0.24355356	2.5394503	21	—	—
440770 2006 HH_{28}	16.9	X	213.51419	107.27616	155.63756	14.70645	0.0952748	0.23713561	2.5850654	21	—	—
440771 2006 HJ_{28}	16.8	X	271.53538	27.28486	150.88519	14.43940	0.0748759	0.23434431	2.6055521	21	—	—
440772 2006 HY_{37}	16.9	X	187.23442	212.84230	72.39825	7.78357	0.0639165	0.23989704	2.5651895	21	—	—
440773 2006 HN_{38}	17.5	X	266.25185	125.46396	82.39559	5.23987	0.2060870	0.24106575	2.5568920	21	—	—
440774 2006 HO_{59}	16.6	X	206.09431	118.76858	130.09592	31.08031	0.3015821	0.23527838	2.5986514	21	—	—
440775 2006 HX_{69}	16.6	X	168.47138	143.16697	152.10135	13.97915	0.1891332	0.23271068	2.6177319	21	—	—
440776 2006 HD_{84}	17.2	X	177.50758	159.39898	126.11516	4.64699	0.1530187	0.23411710	2.6072377	21	—	—
440777 2006 HH_{97}	17.4	X	3.47644	99.38764	27.93860	3.22962	0.0807507	0.24435537	2.5338922	21	—	—
440778 2006 HB_{154}	17.6	X	225.06131	176.27884	65.31991	4.18562	0.1163403	0.23801712	2.5786788	21	—	—
440779 2006 JV_{24}	16.6	X	128.32762	42.09387	234.67326	12.82799	0.2433958	0.22473976	2.6792677	21	12 19.4	21.4
440780 2006 JX_{80}	17.7	X	156.28256	128.30227	144.79904	2.43509	0.1550394	0.22844492	2.6502187	21	—	—
440781 2006 KT_{18}	17.2	X	120.62630	149.59690	153.01822	14.21224	0.2583253	0.22653607	2.6650855	21	—	—
440782 2006 KU_{18}	17.2	X	229.65758	68.12599	133.75264	12.91173	0.1990860	0.23413868	2.6070775	21	12 21.8	21.1
440783 2006 KD_{45}	17.2	X	167.65681	204.38706	123.33863	14.51896	0.1695413	0.24105608	2.5569603	21	1 6.7	21.1
440784 2006 KR_{69}	17.6	X	187.75809	170.03763	169.31689	5.56600	0.3066116	0.24132908	2.5550316	21	2 12.4	22.3
440785 2006 KQ_{73}	16.3	X	318.02336	318.48468	116.59014	13.29602	0.1471918	0.22319458	2.6916192	21	11 27.2	19.3
440786 2006 KO_{75}	16.0	X	134.53537	187.42048	126.05876	15.43683	0.1788374	0.23234844	2.6204520	21	—	—
440787 2006 KF_{83}	17.2	X	322.70542	45.56112	70.89472	2.77721	0.0445793	0.23339710	2.6125969	21	—	—
440788 2006 KX_{91}	17.8	X	146.29513	147.56919	169.20668	2.84741	0.1866167	0.23290451	2.6162793	21	—	—
440789 2006 KK_{92}	17.5	X	144.59136	78.98095	227.26520	15.36188	0.1770788	0.23089377	2.6314467	21	—	—
440790 2006 KP_{123}	17.3	X	150.39967	64.41432	215.48823	12.84341	0.2378202	0.22660901	2.6645136	21	—	—
440791 2006 MV_{7}	16.7	X	74.13540	264.59278	115.78616	13.72116	0.1165043	0.22384327	2.6864166	21	—	—
440792 2006 MA_{11}	16.8	X	170.08586	344.23890	287.84249	13.18965	0.2334391	0.22588756	2.6701839	21	—	—
440793 2006 OK_{10}	16.9	X	91.59524	71.42521	264.40238	7.86419	0.2721685	0.21697095	2.7428475	21	—	—
440794 2006 OO_{14}	17.0	X	123.58341	27.00705	308.02563	7.42791	0.3153235	0.22217731	2.6998289	21	—	—
440795 2006 OK_{16}	17.1	X	102.27574	37.34013	327.57575	8.89563	0.2666024	0.21990751	2.7183748	21	—	—
440796 2006 OB_{22}	16.8	X	75.88979	178.75091	176.07928	14.22119	0.2002235	0.21127375	2.7919375	21	—	—
440797 2006 PO_{6}	16.1	X	91.06039	21.01339	329.86128	26.22926	0.2070571	0.21926008	2.7237234	21	—	—
440798 2006 PZ_{7}	16.9	X	174.19140	288.30057	345.89220	12.18100	0.2516391	0.22575588	2.6712221	21	—	—
440799 2006 PZ_{9}	19.9	X	6.09609	173.34510	134.70142	4.45955	0.2897045	0.33057906	2.0715042	21	10 7.0	20.6
440800 2006 PA_{16}	16.6	X	77.19797	269.76356	131.27477	13.66771	0.2860164	0.22076259	2.7113509	21	1 5.3	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440801 2006 PZ_{18}	17.0	X	158.68190	340.69682	305.77555	9.30273	0.1714235	0.22419932	2.6835716	21	—	—
440802 2006 PZ_{24}	16.8	X	101.41083	52.97458	280.70823	17.04567	0.3413756	0.21717579	2.7411225	21	—	—
440803 2006 QL_{4}	17.2	X	27.45640	31.21686	9.81137	6.79011	0.1036693	0.21144907	2.7903940	21	—	—
440804 2006 QO_{15}	17.2	X	86.73894	144.48093	204.91813	2.85803	0.2045603	0.21755190	2.7379623	21	—	—
440805 2006 QE_{50}	17.3	X	105.13924	71.17421	256.42303	2.22380	0.1976604	0.21703239	2.7423298	21	—	—
440806 2006 QF_{56}	17.6	X	64.00310	55.92091	337.78649	7.35727	0.2806638	0.21680152	2.7442763	21	—	—
440807 2006 QV_{57}	15.8	X	106.93169	24.39748	326.42126	9.28609	0.2571690	0.21814900	2.7329639	21	—	—
440808 2006 QC_{62}	17.0	X	92.84733	165.68222	154.97851	10.04843	0.2193346	0.21323550	2.7747873	21	—	—
440809 2006 QM_{83}	17.3	X	86.33617	57.65524	318.83616	2.32428	0.2119625	0.21953196	2.7214742	21	—	—
440810 2006 QK_{90}	16.6	X	55.63822	148.47628	203.72721	7.30892	0.3215287	0.21021593	2.8012958	21	—	—
440811 2006 QE_{104}	17.0	X	102.58504	188.19506	130.93034	4.72128	0.2272741	0.21435023	2.7651588	21	—	—
440812 2006 QB_{108}	17.7	X	82.40127	94.81301	279.33679	2.57703	0.3447746	0.21661307	2.7458678	21	—	—
440813 2006 QN_{119}	16.2	X	91.13496	49.57870	309.79082	12.73396	0.2147209	0.21754950	2.7379824	21	—	—
440814 2006 QX_{122}	17.3	X	60.76316	74.55668	315.93691	6.58239	0.3488550	0.21315374	2.7754969	21	—	—
440815 2006 QE_{125}	17.1	X	102.69151	27.20199	310.69058	11.49889	0.2029159	0.21814710	2.7329797	21	—	—
440816 2006 QF_{134}	16.7	X	119.83298	324.96451	358.38003	9.18011	0.2928036	0.21691667	2.7433050	21	—	—
440817 2006 QK_{149}	17.0	X	62.19913	26.89054	357.22405	12.00806	0.1032037	0.21558058	2.7546280	21	—	—
440818 2006 QS_{152}	17.2	X	36.70287	43.66733	347.95637	4.39951	0.1033210	0.21415885	2.7668059	21	—	—
440819 2006 QD_{177}	17.5	X	47.74148	73.71756	296.39593	1.97176	0.0994413	0.21260719	2.7802515	21	—	—
440820 2006 RY	16.3	X	142.49943	312.91722	7.95755	13.69297	0.2137630	0.22000090	2.7176055	21	—	—
440821 2006 RZ_{3}	16.5	X	62.52120	47.30333	351.24952	7.57349	0.2331268	0.21640669	2.7476132	21	—	—
440822 2006 RZ_{4}	17.4	X	87.25384	140.42759	219.68007	7.18368	0.3074649	0.21647335	2.7470491	21	—	—
440823 2006 RP_{8}	17.2	X	61.44874	17.34868	2.63838	9.52790	0.2285661	0.21394053	2.7686879	21	—	—
440824 2006 RX_{8}	16.6	X	107.00725	46.98919	347.55924	12.63782	0.2678676	0.22335382	2.6903397	21	2 11.8	20.3
440825 2006 RX_{35}	16.2	X	119.51084	359.72810	19.98583	10.81558	0.1695564	0.22276203	2.6951024	21	1 25.9	20.1
440826 2006 RD_{36}	16.3	X	90.76677	73.33452	310.23108	10.57441	0.1549272	0.21890949	2.7266307	21	—	—
440827 2006 RB_{38}	17.3	X	75.96041	2.32573	22.81641	8.41401	0.3215163	0.21538764	2.7562728	21	—	—
440828 2006 RU_{41}	16.2	X	231.46817	223.24602	187.43651	22.68094	0.1358060	0.18198177	3.0840220	21	6 19.9	21.4
440829 2006 RQ_{44}	17.6	X	62.88738	333.67540	28.12284	4.62560	0.1148032	0.21008963	2.8024183	21	—	—
440830 2006 RQ_{62}	17.0	X	44.30699	10.88303	7.67606	4.46688	0.2087099	0.21124907	2.7921549	21	—	—
440831 2006 RM_{70}	16.3	X	148.18446	263.03254	359.29227	9.02297	0.0900966	0.21083165	2.7958392	21	12 16.3	20.7
440832 2006 RG_{76}	16.7	X	103.29002	336.55002	9.43897	9.47384	0.1495033	0.21632046	2.7483433	21	—	—
440833 2006 RB_{116}	17.1	X	351.46113	198.95190	201.31120	1.51731	0.0648798	0.20300645	2.8672319	21	11 26.4	20.7
440834 2006 RJ_{122}	16.8	X	70.71868	15.76235	340.50342	8.33699	0.0670839	0.21352977	2.7722375	21	—	—
440835 2006 SE_{3}	17.1	X	78.18820	20.25752	346.29965	10.85231	0.2803386	0.21530380	2.7569883	21	—	—
440836 2006 SP_{16}	17.3	X	358.31445	74.24633	341.34932	4.68634	0.2540175	0.20491591	2.8493924	21	—	—
440837 2006 SA_{32}	16.7	X	71.23212	142.22055	245.38881	1.54780	0.2079857	0.21555080	2.7548817	21	—	—
440838 2006 SV_{43}	16.4	X	24.39067	69.32695	359.07117	11.75525	0.2485107	0.21026520	2.8008581	21	—	—
440839 2006 SA_{45}	16.9	X	33.20715	149.75798	270.55619	10.11980	0.1498230	0.21795412	2.7345928	21	—	—
440840 2006 SM_{65}	17.0	X	59.00054	89.91538	294.66770	7.94715	0.2471325	0.21465158	2.7625702	21	—	—
440841 2006 SR_{79}	16.6	X	120.60619	78.20729	254.69788	10.92496	0.2347852	0.21810696	2.7333151	21	—	—
440842 2006 SE_{84}	16.7	X	63.38579	9.95833	18.39019	9.68956	0.1656256	0.21406609	2.7676052	21	—	—
440843 2006 SD_{103}	17.3	X	60.81281	135.34294	192.18256	1.89864	0.0363878	0.20455461	2.8527466	21	11 24.3	21.1
440844 2006 SF_{105}	16.1	X	99.15087	29.91952	313.61082	17.03676	0.2983524	0.21571059	2.7535211	21	—	—
440845 2006 SK_{109}	17.1	X	38.19288	187.38655	153.26027	2.43907	0.0821660	0.20035527	2.8924700	21	11 18.0	20.9
440846 2006 SP_{115}	17.2	X	55.21536	4.41586	359.87645	4.19091	0.0822275	0.21132842	2.7914560	21	—	—
440847 2006 SY_{126}	16.9	X	81.27831	61.37303	305.49123	6.96897	0.2666274	0.21460911	2.7629346	21	—	—
440848 2006 SJ_{139}	16.7	X	353.59710	208.98430	161.77776	13.54855	0.1968046	0.19794313	2.9159211	21	11 2.5	19.9
440849 2006 SW_{139}	16.7	X	70.10659	148.06043	225.10315	11.01225	0.1128088	0.21572602	2.7533898	21	—	—
440850 2006 SB_{160}	16.9	X	73.09783	316.55915	40.33331	6.57743	0.0518023	0.20942299	2.8083624	21	—	—
440851 2006 SX_{175}	17.5	X	73.42780	20.29899	335.96907	3.17505	0.1295629	0.21197213	2.7858018	21	—	—
440852 2006 SF_{187}	17.3	X	41.00815	181.62537	216.66432	4.38625	0.0844401	0.21448331	2.7640149	21	—	—
440853 2006 ST_{192}	17.1	X	127.54065	199.57762	134.46340	3.80011	0.0996372	0.21836758	2.7311399	21	—	—
440854 2006 SM_{197}	16.5	X	124.72132	68.79254	284.15009	14.52935	0.3075640	0.22051093	2.7134134	21	1 13.0	20.5
440855 2006 SF_{202}	16.7	X	158.62543	273.88738	5.87919	8.55798	0.1503700	0.21379749	2.7699227	21	—	—
440856 2006 SZ_{213}	16.4	X	124.19515	75.36614	256.30528	9.92621	0.2080824	0.21945674	2.7220960	21	—	—
440857 2006 SC_{260}	16.8	X	35.34912	350.68213	295.08403	1.37938	0.0721721	0.19097625	2.9864126	21	8 31.6	20.7
440858 2006 SS_{277}	16.8	X	291.51671	313.31969	137.67222	2.83631	0.0272681	0.20330423	2.8644315	21	11 9.6	20.7
440859 2006 ST_{286}	16.7	X	74.21409	274.86553	95.40460	8.64978	0.2397784	0.21340350	2.7733309	21	—	—
440860 2006 SK_{290}	16.7	X	107.60142	0.49798	53.48563	9.67146	0.2660575	0.22392698	2.6857470	21	3 10.5	20.6
440861 2006 SF_{296}	17.2	X	105.49548	105.20669	224.64234	1.98126	0.0997043	0.21424893	2.7660304	21	—	—
440862 2006 SM_{329}	17.3	X	32.73724	0.65419	41.96672	4.01294	0.0936941	0.20990649	2.8040481	21	—	—
440863 2006 SN_{342}	16.6	X	9.22716	203.31448	233.68474	7.05885	0.2001017	0.20934950	2.8090195	21	—	—
440864 2006 SC_{355}	16.5	X	62.37512	212.31925	181.40877	12.19226	0.1522157	0.21373505	2.7704621	21	—	—
440865 2006 SF_{378}	17.0	X	73.97210	237.17783	114.74199	8.73062	0.2301563	0.21016001	2.8017927	21	—	—
440866 2006 SA_{385}	16.2	X	82.73192	86.69539	133.20843	11.72965	0.0385166	0.18417455	3.0594942	21	8 5.3	20.3
440867 2006 SV_{394}	17.1	X	74.51544	79.50372	290.26234	11.78181	0.2372535	0.21202809	2.7853116	21	—	—
440868 2006 ST_{405}	17.2	X	296.54288	171.41975	346.32817	4.10300	0.0487090	0.21637900	2.7478476	21	—	—
440869 2006 SE_{411}	17.3	X	39.30942	195.61215	201.59207	3.34322	0.0990718	0.21050419	2.7987379	21	—	—
440870 2006 TB_{12}	17.0	X	113.14609	289.79049	27.75167	8.20056	0.2255485	0.21400975	2.7680909	21	—	—
440871 2006 TM_{12}	17.4	X	111.11749	104.42649	207.96490	12.82842	0.3391304	0.21634376	2.7481460	21	—	—
440872 2006 TL_{25}	16.5	X	42.57167	164.40297	212.66232	12.44284	0.0707479	0.20626472	2.8369570	21	—	—
440873 2006 TB_{29}	17.2	X	57.72564	338.47983	38.46125	6.78403	0.0768872	0.20899227	2.8122196	21	—	—
440874 2006 TR_{34}	16.7	X	54.45035	4.87013	24.45741	7.27972	0.1872666	0.21005187	2.8027542	21	—	—
440875 2006 TX_{40}	17.2	X	10.67072	6.25996	20.81410	1.98526	0.0754673	0.20137109	2.8827344	21	12 7.2	20.9
440876 2006 TD_{46}	17.2	X	11.73075	316.62110	71.92896	3.00515	0.1022558	0.20102846	2.8860090	21	12 13.8	20.7
440877 2006 TF_{56}	18.6	X	214.28600	221.89425	210.37959	1.38194	0.1083320	0.31285982	2.1489989	21	7 1.1	21.4
440878 2006 TC_{62}	16.9	X	61.46609	52.49205	335.56956	8.32803	0.2003965	0.21396914	2.7684411	21	—	—
440879 2006 TP_{74}	16.9	X	33.60449	155.41085	291.57053	9.81785	0.3501068	0.21260460	2.7802741	21	—	—
440880 2006 TY_{76}	16.6	X	104.81391	56.78456	319.79669	6.89366	0.2528164	0.21843755	2.7305566	21	1 13.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440881 2006 TL_{91}	16.5	X	356.93393	113.79918	230.02371	14.62454	0.1006027	0.19063190	2.9900078	21	9 15.9	20.4
440882 2006 TJ_{103}	17.2	X	103.13234	102.53345	219.07437	16.04583	0.1500803	0.20961133	2.8066798	21	—	—
440883 2006 TX_{110}	17.0	X	83.75216	221.15440	119.55152	4.83558	0.1012138	0.21050088	2.7987672	21	—	—
440884 2006 TQ_{115}	16.6	X	136.98772	357.27135	145.33078	13.47198	0.0593064	0.17695860	3.1421116	21	7 6.2	21.3
440885 2006 TT_{124}	16.7	X	42.33249	82.31865	256.95753	5.22717	0.0988004	0.20044065	2.8916486	21	11 23.1	20.4
440886 2006 US_{16}	16.2	X	287.06811	236.47436	209.06654	14.06501	0.0595735	0.19342701	2.9611333	21	10 21.4	20.2
440887 2006 UV_{49}	17.5	X	73.53511	62.59420	292.58621	4.16132	0.1359706	0.20990070	2.8040997	21	—	—
440888 2006 UA_{70}	16.9	X	33.30494	27.02863	323.05475	1.77223	0.1707665	0.20066178	2.8895238	21	12 5.2	20.5
440889 2006 UL_{72}	17.0	X	73.08148	138.51132	263.27540	2.32284	0.1988537	0.21785297	2.7354392	21	—	—
440890 2006 UO_{84}	18.3	X	252.32259	352.37244	40.90875	6.64007	0.1850349	0.31400712	2.1437611	21	6 11.5	21.3
440891 2006 UM_{113}	17.5	X	12.90328	32.50872	351.85707	1.43475	0.0759152	0.20308194	2.8665213	21	12 7.4	21.1
440892 2006 UE_{114}	16.8	X	131.91750	271.16097	26.90112	13.74122	0.2138718	0.21350381	2.7724621	21	—	—
440893 2006 UE_{144}	16.2	X	264.29999	168.55908	241.74414	11.07858	0.2491149	0.18301636	3.0723884	21	7 9.4	21.0
440894 2006 UM_{166}	17.3	X	116.20892	271.79114	79.34445	4.22387	0.1958922	0.21748474	2.7385259	21	—	—
440895 2006 UL_{170}	17.3	X	326.05703	353.79789	99.41194	3.22099	0.0259116	0.20550879	2.8439095	21	12 27.3	21.0
440896 2006 UN_{187}	16.6	X	13.54235	176.73995	262.13403	12.86860	0.1667317	0.21161088	2.7889714	21	—	—
440897 2006 UF_{221}	16.9	X	44.82704	58.47094	355.01547	7.17555	0.2210310	0.21331825	2.7740698	21	—	—
440898 2006 UQ_{224}	16.8	X	89.15130	108.45310	228.39517	11.99481	0.2021423	0.21115008	2.7930275	21	—	—
440899 2006 UU_{229}	17.2	X	71.60621	311.85806	79.71421	3.16660	0.2009707	0.21613808	2.7498892	21	—	—
440900 2006 UC_{283}	16.9	X	4.64698	103.38741	233.38027	6.10133	0.1605068	0.19314935	2.9639705	21	9 27.1	20.2
440901 2006 UJ_{288}	16.9	X	90.60830	49.33605	315.65878	6.69427	0.2379994	0.21293858	2.7773662	21	—	—
440902 2006 UF_{337}	15.9	X	159.71782	247.38379	236.79618	9.45013	0.0283219	0.17554551	3.1589510	21	7 6.2	20.5
440903 2006 UP_{345}	15.6	X	144.96198	280.09997	276.39517	13.86579	0.0773599	0.17916824	3.1162242	21	9 13.9	20.6
440904 2006 VA	18.8	X	350.00905	14.14259	287.21381	4.11247	0.3546145	0.32325966	2.1026567	21	6 21.4	18.1
440905 2006 VV_{1}	16.8	X	56.68124	118.50265	246.92523	9.50664	0.1512313	0.20566151	2.8425015	21	—	—
440906 2006 VO_{6}	16.2	X	210.64418	20.22603	62.78503	8.56252	0.0182427	0.17877936	3.1207415	21	7 18.7	20.7
440907 2006 VA_{35}	18.7	X	242.48202	160.12102	231.71187	2.54129	0.1378736	0.31183928	2.1536849	21	6 4.1	21.6
440908 2006 VY_{56}	18.5	X	195.16020	338.99073	83.02098	2.27188	0.1103265	0.30652732	2.1784951	21	5 25.7	21.6
440909 2006 VP_{63}	16.4	X	6.53884	126.72412	244.62041	9.05595	0.1091365	0.19498005	2.9453886	21	11 12.9	19.9
440910 2006 VB_{72}	16.7	X	353.44979	150.79248	239.68227	9.17005	0.1066401	0.19606105	2.9345521	21	11 17.6	20.2
440911 2006 VN_{77}	16.3	X	153.03631	43.27291	74.60266	10.03182	0.0562364	0.17363297	3.1821056	21	6 23.1	21.1
440912 2006 VZ_{79}	16.1	X	192.61720	248.96995	225.98153	14.96498	0.0335259	0.17990320	3.1077313	21	7 30.1	20.9
440913 2006 VR_{81}	16.6	X	69.04802	346.50729	19.23186	10.41536	0.1445478	0.21231126	2.7828344	21	—	—
440914 2006 VJ_{85}	17.0	X	5.09120	313.84043	70.10166	8.12718	0.1252860	0.19756599	2.9196307	21	11 29.9	20.5
440915 2006 VK_{113}	16.4	X	332.23708	19.49282	47.51178	11.61861	0.1442210	0.19696935	2.9255237	21	11 30.1	19.7
440916 2006 VD_{129}	16.0	X	51.97501	109.82595	253.59055	13.81814	0.1666266	0.20482434	2.8502416	21	—	—
440917 2006 VM_{141}	16.9	X	347.47442	15.27317	40.89188	6.15065	0.0598211	0.20000412	2.8958547	21	12 9.1	20.7
440918 2006 VH_{154}	16.6	X	341.66041	111.46283	237.28144	9.16386	0.1243168	0.18921122	3.0049561	21	8 28.3	20.3
440919 2006 WG_{59}	15.9	X	176.43291	178.02507	276.70148	7.36191	0.1238179	0.17209005	3.2010974	21	6 21.6	21.0
440920 2006 WF_{70}	17.0	X	357.83141	125.45469	259.75326	4.83337	0.1078170	0.19717058	2.9235328	21	11 17.7	20.5
440921 2006 WO_{79}	16.9	X	51.25444	101.78983	258.76817	7.96006	0.1295193	0.20206406	2.8761399	21	—	—
440922 2006 WO_{81}	16.5	X	321.95102	107.45205	231.03514	9.62711	0.0374040	0.17876306	3.1209312	21	7 21.5	20.9
440923 2006 WF_{88}	16.6	X	222.23779	264.92058	219.76258	11.43858	0.1193697	0.18518961	3.0483042	21	9 8.4	21.4
440924 2006 WT_{200}	16.6	X	159.70363	188.35221	322.51873	4.51844	0.1605143	0.17061834	3.2194788	21	8 13.9	21.9
440925 2006 WO_{205}	16.2	X	102.21802	239.41031	72.48815	15.98991	0.1501750	0.20324275	2.8650091	21	12 31.9	20.9
440926 2006 XM_{6}	16.0	X	266.47690	53.88983	55.41938	13.09113	0.0936772	0.19105442	2.9855980	21	10 22.7	20.2
440927 2006 XY_{6}	15.6	X	139.95974	256.13410	266.53567	24.18045	0.2430578	0.17091482	3.2157547	21	8 4.5	21.4
440928 2006 XE_{16}	15.8	X	180.11658	98.39025	91.84320	17.12416	0.0843217	0.18489907	3.0514966	21	10 28.6	20.7
440929 2006 XD_{18}	15.6	X	196.74893	175.71654	298.31854	12.68704	0.0911538	0.17304388	3.1893233	21	8 3.6	20.6
440930 2006 XA_{21}	16.0	X	35.76772	70.58323	283.22237	8.89391	0.1083128	0.19108964	2.9852311	21	12 1.9	20.1
440931 2006 XK_{39}	15.6	X	265.78108	179.90941	283.85924	12.14810	0.0796909	0.18553805	3.0444865	21	10 5.9	20.1
440932 2006 XE_{51}	15.8	X	22.93520	56.44105	281.36631	15.38574	0.0529575	0.18581809	3.0414269	21	10 10.5	20.3
440933 2006 XG_{52}	16.0	X	295.04650	168.94774	275.57777	10.61858	0.1027298	0.19105343	2.9856082	21	10 21.5	20.1
440934 2006 XB_{70}	16.0	X	226.71788	347.56980	102.71377	15.89804	0.0660785	0.17425036	3.1745848	21	8 12.8	20.8
440935 2006 XP_{70}	16.7	X	304.19237	121.21119	324.66263	8.89485	0.1044149	0.18959452	3.0009047	21	11 6.0	20.6
440936 2006 XB_{71}	17.9	X	180.21206	319.49326	104.84059	6.59828	0.1494118	0.29857543	2.2170050	21	5 15.6	21.3
440937 2006 XW_{71}	15.8	X	231.86322	188.23576	283.12854	14.90050	0.0496859	0.18041311	3.1018728	21	9 5.8	20.6
440938 2006 YE_{4}	16.8	X	309.02785	58.28273	278.50634	23.71943	0.2305965	0.30911241	2.1663324	21	5 30.8	19.3
440939 2006 YA_{11}	15.6	X	218.88105	8.29260	108.30934	28.45613	0.0862813	0.17770178	3.1333448	21	9 8.9	20.7
440940 2006 YG_{25}	18.2	X	224.93309	290.31832	82.08043	6.52227	0.2518694	0.30263692	2.1971251	21	4 18.0	21.9
440941 2006 YO_{33}	16.6	X	278.76891	85.82358	358.27023	4.94274	0.1305237	0.18429291	3.0581841	21	9 26.8	20.6
440942 2006 YK_{35}	16.4	X	8.33182	316.86197	68.57760	5.08227	0.1812223	0.19260900	2.9695114	21	12 12.4	19.6
440943 2006 YE_{53}	15.8	X	332.00572	53.90717	317.31329	26.24933	0.0698311	0.17587016	3.1550623	21	9 5.3	20.2
440944 2007 AH	15.5	X	196.51178	251.92361	266.37284	15.33556	0.1070969	0.17962092	3.1109863	21	9 19.5	20.7
440945 2007 AH_{5}	18.4	X	180.23804	125.11508	290.17623	3.52036	0.0747436	0.29748596	2.2224145	21	4 26.9	21.3
440946 2007 AW_{6}	15.6	X	213.61493	168.19921	298.06872	26.68344	0.1039833	0.17512001	3.1640660	21	8 6.5	20.6
440947 2007 AG_{19}	15.3	X	183.42244	173.44891	317.38876	15.98610	0.0882004	0.17175170	3.2053001	21	8 11.7	20.3
440948 2007 AA_{26}	15.7	X	177.47856	195.28162	317.32784	18.47136	0.0281916	0.17604021	3.1530302	21	8 29.1	20.4
440949 2007 AP_{28}	16.3	X	302.13854	283.22038	124.85690	8.99846	0.1205416	0.18124389	3.0923867	21	9 18.8	20.3
440950 2007 AG_{31}	15.6	X	112.96589	162.78442	98.31281	12.02579	0.0457595	0.18258480	3.0772278	21	11 6.6	20.2
440951 2007 BQ_{11}	16.3	X	142.37647	68.40538	115.97147	16.85171	0.2022521	0.17102881	3.2143256	21	9 14.4	21.9
440952 2007 BX_{12}	16.2	X	327.88984	288.55520	117.31981	9.94122	0.1143263	0.18508389	3.0494649	21	10 29.7	20.0
440953 2007 BH_{14}	16.4	X	93.78356	266.43990	332.44250	4.31790	0.1215433	0.17297313	3.1901930	21	9 20.9	21.2
440954 2007 BF_{15}	15.8	X	358.98747	40.03937	325.55489	9.44577	0.0448110	0.18211951	3.0824667	21	10 14.5	20.0
440955 2007 BH_{22}	17.7	X	12.56386	222.91143	334.70263	4.96337	0.1568653	0.28624838	2.2802057	21	3 8.3	19.3
440956 2007 BV_{23}	16.3	X	150.06467	89.81550	119.28427	11.58536	0.0349198	0.18078903	3.0975715	21	10 16.5	21.0
440957 2007 BL_{27}	15.9	X	252.71472	347.99139	128.53519	18.54341	0.1745464	0.18306793	3.0718113	21	10 5.3	20.7
440958 2007 BU_{27}	16.5	X	350.39755	86.13326	312.40663	9.54376	0.1195967	0.18897334	3.0074773	21	11 20.1	20.3
440959 2007 BN_{32}	16.1	X	2.77334	234.84882	123.78802	11.00774	0.0830359	0.18375060	3.0641983	21	10 23.3	20.2
440960 2007 BF_{36}	18.3	X	296.61274	107.63574	70.84437	0.22294	0.1725997	0.26903897	2.3764349	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
440961 2007 BC_{45}	17.8	X	158.93959	142.13000	312.70183	7.06642	0.0707321	0.29769409	2.2213785	21	5 26.3	20.7
440962 2007 BJ_{45}	18.2	X	260.83758	273.69594	289.68390	2.02221	0.1714941	0.26500775	2.4004740	21	—	—
440963 2007 BN_{57}	16.4	X	319.36655	350.69553	89.95676	5.97416	0.1686771	0.19160495	2.9798763	21	11 24.9	19.5
440964 2007 BG_{63}	15.6	X	168.55085	242.01184	308.65401	8.18921	0.0261894	0.17867063	3.1220074	21	10 5.4	20.2
440965 2007 BZ_{70}	16.0	X	166.06805	241.10036	312.62180	10.59457	0.1216812	0.17633591	3.1495043	21	10 4.3	21.2
440966 2007 BQ_{78}	15.6	X	119.81610	273.30223	336.07815	10.87215	0.0910075	0.17862097	3.1225861	21	10 24.9	20.5
440967 2007 BV_{78}	16.2	X	336.81391	61.94794	310.58476	15.75058	0.1863227	0.18172490	3.0869275	21	9 14.2	19.7
440968 2007 BG_{79}	16.0	X	17.72485	23.41724	314.43558	8.68853	0.0966113	0.17799390	3.1299156	21	10 9.6	20.2
440969 2007 BR_{94}	16.1	X	311.25980	89.94476	299.77710	9.77818	0.0956601	0.17868968	3.1217855	21	9 3.8	20.2
440970 2007 BG_{102}	15.8	X	151.66977	97.31502	97.43791	9.74458	0.1887068	0.17421412	3.1750250	21	10 3.5	21.3
440971 2007 CB_{3}	16.0	X	104.32302	299.60165	309.11883	8.95215	0.1117116	0.17554022	3.1590146	21	10 9.8	21.0
440972 2007 CU_{7}	18.0	X	121.81842	5.83613	126.81688	6.18778	0.0887229	0.29794527	2.2201299	21	6 6.3	20.7
440973 2007 CH_{8}	15.6	X	54.45013	306.38143	314.99244	14.23192	0.0448902	0.17260727	3.1946993	21	8 19.9	20.0
440974 2007 CX_{14}	18.2	X	192.82483	273.36920	160.94081	4.68171	0.1191424	0.29970468	2.2114326	21	6 9.8	21.4
440975 2007 CY_{20}	17.7	X	296.06683	327.43095	311.54434	7.05222	0.0949397	0.28750308	2.2735668	21	3 9.2	20.5
440976 2007 CV_{22}	15.9	X	179.91026	44.81289	139.47367	16.99257	0.1472922	0.17893739	3.1189038	21	10 16.4	21.2
440977 2007 CL_{28}	16.5	X	203.29357	332.12316	145.94673	8.85239	0.0919396	0.17093923	3.2154485	21	8 16.6	21.3
440978 2007 CP_{30}	15.8	X	105.51520	114.00845	135.95287	11.00884	0.0818803	0.17765963	3.1338404	21	10 18.6	20.6
440979 2007 CN_{31}	16.4	X	320.08480	253.24152	135.08801	1.52211	0.0875142	0.17879573	3.1205510	21	9 20.9	20.4
440980 2007 CQ_{36}	16.7	X	188.64948	195.75888	326.79075	4.46601	0.1011642	0.17740127	3.1368824	21	9 23.3	21.5
440981 2007 CO_{37}	16.4	X	186.77503	355.58665	130.14687	10.01350	0.0480704	0.16998320	3.2274935	21	8 10.6	21.2
440982 2007 CR_{37}	16.3	X	287.48768	327.12191	129.04746	10.65886	0.0592352	0.18519517	3.0482432	21	11 7.3	20.6
440983 2007 CR_{42}	16.7	X	273.05431	316.37260	147.66777	10.43717	0.0837547	0.18285889	3.0741519	21	10 24.9	21.0
440984 2007 CZ_{51}	16.4	X	305.36665	77.35662	11.44684	8.75099	0.2339515	0.18979529	2.9987880	21	10 29.5	19.7
440985 2007 CS_{78}	16.0	X	186.30627	203.73622	337.87487	9.52587	0.0646573	0.17820583	3.1274337	21	10 13.2	20.8
440986 2007 DX_{4}	16.0	X	230.32686	200.09334	300.90311	7.93712	0.0296917	0.18458923	3.0549104	21	10 17.8	20.5
440987 2007 DH_{6}	18.2	X	328.85990	254.34736	353.73640	1.83144	0.0525317	0.28406727	2.2918626	21	3 22.4	20.7
440988 2007 DJ_{6}	16.7	X	97.40645	162.58892	331.26234	24.19772	0.2320028	0.28918191	2.2647589	21	5 19.7	20.3
440989 2007 DO_{10}	15.9	X	306.98565	62.18047	354.14574	15.98765	0.0678719	0.17616872	3.1514966	21	10 4.7	20.1
440990 2007 DZ_{10}	16.4	X	277.93905	96.55104	352.14954	8.29073	0.1504280	0.17863292	3.1224469	21	9 27.1	20.6
440991 2007 DH_{12}	15.6	X	247.59914	175.16343	291.11224	16.34569	0.1599484	0.17858975	3.1229500	21	9 3.5	20.5
440992 2007 DR_{17}	17.3	X	289.30952	298.49907	334.94682	9.52334	0.1739662	0.27966430	2.3158550	21	2 16.0	20.4
440993 2007 DG_{18}	16.1	X	127.07322	65.98952	157.04142	22.40779	0.0365183	0.17361458	3.1823303	21	10 4.8	20.9
440994 2007 DF_{27}	17.4	X	262.33265	316.23432	2.34623	7.54454	0.1287017	0.28447776	2.2896574	21	3 21.1	20.5
440995 2007 DV_{31}	16.3	X	239.32543	115.10384	350.44503	10.37137	0.0643015	0.17279747	3.1923547	21	9 13.1	20.7
440996 2007 DX_{33}	15.6	X	162.89572	24.61583	157.77098	10.85549	0.0592812	0.17085791	3.2164687	21	9 23.9	20.4
440997 2007 DR_{35}	16.3	X	255.51004	129.92417	342.60093	9.33231	0.1370799	0.17874680	3.1211205	21	9 29.1	20.9
440998 2007 DM_{40}	16.7	X	14.13598	243.58349	158.13701	14.30127	0.1937258	0.18948236	3.0020888	21	—	—
440999 2007 DH_{42}	15.6	X	153.32737	221.32929	332.35514	26.23200	0.1309638	0.17291826	3.1908677	21	9 17.6	21.0
441000 2007 DT_{46}	16.7	X	343.13817	275.52212	122.64415	6.38992	0.1449221	0.18849127	3.0126029	21	11 13.0	20.1
441001 2007 DO_{49}	18.7	X	251.95569	26.48162	132.86987	24.04397	0.0428404	0.39505638	1.8394868	21	—	—
441002 2007 DS_{53}	18.0	X	282.17427	39.56472	181.84758	5.44232	0.1522131	0.26681444	2.3896254	21	—	—
441003 2007 DY_{81}	18.1	X	270.32766	161.75116	105.22815	3.96578	0.1489374	0.27420165	2.3465114	21	1 21.9	21.6
441004 2007 DG_{82}	18.1	X	298.18769	126.08447	84.13426	2.57519	0.1302096	0.26982505	2.3718172	21	—	—
441005 2007 DA_{93}	15.1	X	137.37941	202.39347	337.38324	17.82906	0.0609490	0.16795234	3.2534591	21	8 23.8	20.0
441006 2007 DL_{96}	17.7	X	265.64215	279.44766	337.49784	5.46544	0.1877715	0.26951030	2.3736634	21	1 3.8	21.5
441007 2007 DZ_{98}	18.0	X	358.58358	61.38264	133.44949	3.09896	0.1728367	0.27953639	2.3165614	21	2 4.3	20.3
441008 2007 DV_{100}	15.6	X	165.73569	216.79460	340.13034	15.44089	0.0564107	0.17703489	3.1412087	21	10 7.3	20.5
441009 2007 DP_{116}	16.1	X	193.90712	157.54967	12.97092	17.10350	0.1590373	0.17746297	3.1361553	21	10 6.5	21.1
441010 2007 EB_{6}	18.5	X	271.34822	281.20159	345.00606	2.25344	0.0599200	0.27677905	2.3319214	21	1 29.8	21.5
441011 2007 EX_{12}	17.9	X	30.74068	183.99789	1.77285	8.32104	0.1319572	0.28300547	2.2975916	21	3 30.4	19.7
441012 2007 EQ_{15}	18.0	X	350.76409	89.06528	86.86443	2.26163	0.1210427	0.27219043	2.3580562	21	1 5.3	20.7
441013 2007 EM_{69}	18.0	X	261.89793	123.87296	116.27278	2.54569	0.1744184	0.26482440	2.4015818	21	—	—
441014 2007 EK_{72}	15.9	X	325.56617	32.64024	9.02190	16.59649	0.0905795	0.17420925	3.1750841	21	10 12.7	20.1
441015 2007 EM_{82}	17.5	X	254.05669	314.87989	315.30927	6.01391	0.2000899	0.27398486	2.3477491	21	1 8.5	21.2
441016 2007 EY_{83}	15.6	X	253.88559	299.74456	157.87931	15.43300	0.0491983	0.17281593	3.1921273	21	9 24.9	20.1
441017 2007 EG_{115}	17.8	X	71.10793	13.19111	115.23157	3.06160	0.1628479	0.27962523	2.3160707	21	3 29.1	19.8
441018 2007 EO_{131}	17.9	X	270.15121	230.06502	14.28587	1.07352	0.1527537	0.26782568	2.3836066	21	—	—
441019 2007 EE_{135}	16.2	X	270.40976	264.18009	154.50151	10.81910	0.0773095	0.17320355	3.1873630	21	8 21.2	20.7
441020 2007 EC_{147}	18.0	X	85.68247	104.12763	25.64992	5.08132	0.1036393	0.28476872	2.2880975	21	4 13.0	20.4
441021 2007 EE_{147}	17.8	X	183.02273	255.58987	143.00200	5.65309	0.1113892	0.28607554	2.2811240	21	4 13.9	21.1
441022 2007 EM_{160}	17.6	X	279.36253	234.98854	349.39967	2.32256	0.1975049	0.26469316	2.4023756	21	—	—
441023 2007 ET_{170}	16.1	X	212.41229	161.22052	337.38980	17.70747	0.0985448	0.17604380	3.1529873	21	9 16.2	21.0
441024 2007 EX_{173}	17.8	X	260.91217	249.48679	340.40059	4.57812	0.1422203	0.26309780	2.4120774	21	—	—
441025 2007 EN_{185}	17.5	X	241.65522	208.14101	67.75308	7.55715	0.0980948	0.26677121	2.3898836	21	1 8.5	21.0
441026 2007 EB_{193}	16.1	X	275.25914	114.82381	347.44262	16.40697	0.1891399	0.18158377	3.0885268	21	10 1.5	20.5
441027 2007 EN_{196}	18.2	X	338.89650	171.13542	19.84898	1.87673	0.1222592	0.27125309	2.3634854	21	1 8.7	20.8
441028 2007 EW_{210}	17.8	X	344.34352	210.62491	355.22180	3.46647	0.1936658	0.27785006	2.3259251	21	1 24.8	20.4
441029 2007 EX_{217}	17.7	X	243.14360	80.60810	196.77078	1.87327	0.2035296	0.26483372	2.4015255	21	1 8.4	21.6
441030 2007 EB_{221}	18.0	X	281.30465	133.30382	76.39062	2.39576	0.1370876	0.26265324	2.4147984	21	—	—
441031 2007 FW_{2}	17.1	X	304.18224	107.53125	94.71295	12.21518	0.1971315	0.26768169	2.3844613	21	—	—
441032 2007 FS_{7}	16.3	X	348.30245	235.98991	176.47663	10.16780	0.1985175	0.18562777	3.0435055	21	12 12.5	19.7
441033 2007 FD_{13}	17.6	X	286.82292	351.04069	242.08472	5.16838	0.1863236	0.26861520	2.3789336	21	—	—
441034 2007 FR_{20}	17.7	X	338.52514	262.51716	317.85223	4.42111	0.1814991	0.27721176	2.3294941	21	2 6.4	20.0
441035 2007 FF_{25}	18.0	X	247.79643	231.11942	19.14358	1.13009	0.1496442	0.26361134	2.4089438	21	—	—
441036 2007 GC_{11}	17.5	X	4.19177	65.65976	101.46963	3.02594	0.1465804	0.27456365	2.3444484	21	1 10.1	19.7
441037 2007 GG_{21}	18.0	X	236.39580	97.27245	191.97806	2.53114	0.2004335	0.26322105	2.4113244	21	1 17.1	21.9
441038 2007 GW_{21}	17.6	X	233.69618	250.49723	46.31500	6.87196	0.1221391	0.26525062	2.3990084	21	1 27.8	21.3
441039 2007 GB_{51}	18.0	X	327.37464	144.44820	54.61339	3.79042	0.1203150	0.26758888	2.3850126	21	1 4.8	21.1
441040 2007 GG_{59}	17.8	X	257.36735	256.04952	346.51974	1.33686	0.1500367	0.26162777	2.4211043	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441041 2007 GZ_{66}	17.7	X	248.59074	239.61322	39.20539	3.79337	0.1114309	0.26474021	2.4020909	21	1 19.6	21.2
441042 2007 HF_{3}	18.0	X	272.39652	40.88094	183.69992	1.46640	0.1226033	0.26224517	2.4173028	21	—	—
441043 2007 HD_{13}	17.4	X	296.98428	122.16504	96.72093	3.12824	0.1572383	0.26595142	2.3947922	21	—	—
441044 2007 HK_{30}	18.0	X	24.06985	101.97186	47.37276	2.09827	0.1272072	0.27372122	2.3492563	21	1 23.6	20.2
441045 2007 HC_{41}	17.3	X	222.25505	153.50885	125.34030	3.26078	0.2125910	0.25954515	2.4340384	21	—	—
441046 2007 HM_{45}	17.8	X	199.98840	183.44450	125.83220	3.55499	0.2066236	0.25840908	2.4411673	21	1 12.7	21.9
441047 2007 HH_{64}	17.5	X	276.55312	162.83927	81.81341	3.22601	0.1487754	0.26560949	2.3968471	21	1 1.7	21.1
441048 2007 HD_{67}	17.4	X	185.24587	223.88611	116.48953	8.09845	0.1788292	0.26066210	2.4270802	21	2 5.8	21.1
441049 2007 HW_{83}	17.7	X	241.67312	183.26626	111.70889	4.52262	0.1438717	0.26489004	2.4011851	21	1 30.9	21.3
441050 2007 JH_{1}	17.9	X	250.06797	124.02944	175.14608	1.04623	0.1933393	0.26897163	2.3768315	21	2 9.3	21.7
441051 2007 JT_{41}	17.9	X	251.44138	206.65139	58.31319	2.37425	0.1558674	0.26431621	2.4046591	21	1 2.6	21.7
441052 2007 JO_{44}	17.1	X	228.99029	217.97406	108.06447	6.32548	0.2460168	0.26472002	2.4022131	21	2 25.6	21.2
441053 2007 LB_{10}	17.2	X	198.31550	141.36415	158.12689	10.48303	0.1514115	0.25621410	2.4550897	21	—	—
441054 2007 LR_{17}	17.2	X	234.61191	154.45975	152.52454	14.35361	0.0818913	0.26507555	2.4000646	21	2 8.7	20.6
441055 2007 LS_{24}	17.7	X	308.18674	124.23188	99.31398	3.38806	0.1164305	0.26619603	2.3933249	21	1 13.3	20.9
441056 2007 LC_{25}	18.0	X	268.26159	139.28948	93.09759	2.33106	0.1415468	0.25992304	2.4316787	21	—	—
441057 2007 PX_{10}	17.3	X	150.41879	349.95959	260.45083	11.01648	0.1365529	0.23151243	2.6267567	21	12 7.5	21.5
441058 2007 PH_{25}	16.4	X	132.59275	331.87333	150.25599	53.27495	0.8121494	0.24314701	2.5422803	21	7 23.0	23.0
441059 2007 PF_{33}	17.5	X	2.52154	46.50822	327.23867	17.91194	0.0866203	0.36175615	1.9507073	21	12 18.6	19.7
441060 2007 PR_{45}	16.4	X	177.77440	244.44041	64.17256	12.38321	0.2057392	0.24542903	2.5264969	21	—	—
441061 2007 QX_{13}	17.4	X	176.86705	135.86079	168.07191	13.12047	0.1243037	0.24218795	2.5489874	21	—	—
441062 2007 QV_{14}	18.2	X	174.50405	279.70194	9.02600	4.01906	0.2315987	0.24079213	2.5588286	21	—	—
441063 2007 RG_{4}	17.5	X	141.34434	16.35795	356.15573	7.97444	0.2072026	0.24547784	2.5261620	21	2 9.8	21.2
441064 2007 RF_{9}	17.7	X	124.97990	79.21275	317.82114	9.17254	0.2925902	0.24356434	2.5393755	21	3 1.2	21.5
441065 2007 RV_{11}	18.3	X	147.96683	347.37043	4.90691	6.64088	0.2990848	0.24269101	2.5454638	21	1 31.8	22.5
441066 2007 RA_{17}	17.8	X	116.30085	306.91968	334.59983	18.57028	0.0672415	0.36631897	1.9344749	21	—	—
441067 2007 RN_{30}	17.3	X	132.28383	41.22641	305.16979	13.81685	0.2756298	0.23966550	2.5668414	21	1 7.6	21.0
441068 2007 RF_{34}	17.7	X	103.65455	135.02561	183.44080	21.85930	0.0792950	0.37050667	1.9198709	21	—	—
441069 2007 RQ_{58}	16.1	X	42.56272	102.15683	272.60724	12.95681	0.1848221	0.22608630	2.6686189	21	—	—
441070 2007 RA_{63}	17.2	X	21.87436	246.72694	160.15327	12.65198	0.2698864	0.22561853	2.6723061	21	—	—
441071 2007 RU_{63}	17.7	X	132.95164	229.41534	157.27352	1.44449	0.1692177	0.24633739	2.5202821	21	2 11.3	21.2
441072 2007 RX_{64}	15.6	X	240.80813	39.69361	347.45611	2.42833	0.2783939	0.12419161	3.9787002	21	5 21.7	22.1
441073 2007 RX_{73}	17.4	X	59.70577	193.76839	159.64227	7.19557	0.1535679	0.22694305	2.6618983	21	—	—
441074 2007 RQ_{87}	18.3	X	141.47485	199.67598	176.00465	9.72084	0.2981624	0.24400460	2.5363200	21	2 19.5	22.4
441075 2007 RQ_{107}	15.0	X	211.42093	79.46634	351.01230	10.54733	0.1912173	0.12437006	3.9748935	21	6 23.3	21.5
441076 2007 RO_{111}	17.5	X	39.78471	262.25492	162.88059	3.67476	0.2026160	0.23079081	2.6322292	21	—	—
441077 2007 RC_{132}	18.1	X	123.33469	216.06287	137.70770	6.41833	0.2862294	0.23639977	2.5904270	21	1 7.5	21.6
441078 2007 RJ_{133}	17.8	X	89.38540	355.74325	305.18098	16.84723	0.0570869	0.36466239	1.9403291	21	12 31.8	20.1
441079 2007 RY_{152}	16.7	X	253.60564	262.36349	332.15422	12.05664	0.0853643	0.24379437	2.5377778	21	—	—
441080 2007 RP_{155}	16.6	X	352.28595	167.56072	344.05510	14.36582	0.1162953	0.24405820	2.5359486	21	—	—
441081 2007 RS_{171}	18.0	X	114.80267	261.66298	114.62291	2.64613	0.2494654	0.23955631	2.5676213	21	1 20.4	21.3
441082 2007 RZ_{171}	18.2	X	121.51449	1.61358	41.74517	3.19957	0.2181566	0.24496946	2.5296558	21	2 27.8	21.6
441083 2007 RZ_{178}	17.5	X	149.99186	293.41994	33.73051	8.99017	0.1836134	0.23866378	2.5740188	21	—	—
441084 2007 RT_{182}	17.7	X	181.09220	314.94353	0.27745	14.33599	0.1328356	0.24463903	2.5319330	21	1 3.1	21.8
441085 2007 RM_{186}	17.7	X	114.60090	23.41988	355.92575	4.06576	0.3210062	0.23794818	2.5791769	21	2 4.4	21.3
441086 2007 RK_{188}	17.0	X	84.24106	134.98833	205.73662	6.70262	0.1788847	0.22938310	2.6429875	21	—	—
441087 2007 RJ_{201}	17.8	X	114.53047	13.93435	333.90963	1.39397	0.1740426	0.23439252	2.6051949	21	—	—
441088 2007 RF_{202}	17.5	X	59.92958	103.34723	291.23333	0.91392	0.1035662	0.23048727	2.6345397	21	—	—
441089 2007 RY_{205}	18.6	X	125.69787	16.34972	347.99334	4.82854	0.2807498	0.24057515	2.5603669	21	1 23.1	22.3
441090 2007 RA_{216}	17.2	X	16.05018	260.19544	190.06452	14.00264	0.2185954	0.22988358	2.6391500	21	—	—
441091 2007 RT_{221}	18.3	X	142.15211	101.89378	222.45819	1.16856	0.2197898	0.23605987	2.5929130	21	—	—
441092 2007 RY_{238}	14.9	X	244.38689	296.66354	99.31831	6.90627	0.3279918	0.12597294	3.9411038	21	6 1.2	21.4
441093 2007 RR_{240}	16.6	X	135.14316	112.39165	252.17325	14.03402	0.1618788	0.24311149	2.5425279	21	1 13.5	20.3
441094 2007 RO_{248}	17.7	X	168.02650	115.37866	171.29038	14.99916	0.2538669	0.23849108	2.5752613	21	—	—
441095 2007 RK_{252}	16.7	X	0.65568	57.36964	328.00177	5.82017	0.0792296	0.21890045	2.7267058	21	11 23.3	20.1
441096 2007 RZ_{280}	16.9	X	122.84698	92.39272	293.46196	9.88259	0.2106318	0.24114787	2.5563114	21	2 3.4	20.5
441097 2007 RL_{281}	17.5	X	80.96345	80.39078	324.78029	11.69969	0.3107865	0.23308065	2.6149611	21	1 21.2	20.0
441098 2007 RT_{312}	17.3	X	147.40399	141.57053	165.94986	4.88394	0.2822328	0.23527463	2.5986791	21	—	—
441099 2007 RK_{321}	17.9	X	123.15037	27.08996	344.00666	6.57484	0.2590911	0.24017021	2.5632440	21	1 26.3	21.4
441100 2007 RF_{325}	17.7	X	98.00514	311.67263	69.02267	2.88391	0.1081256	0.23140465	2.6275722	21	—	—
441101 2007 SB_{3}	17.8	X	110.71001	230.26847	176.89933	6.20350	0.2766150	0.24213916	2.5493298	21	2 26.3	21.1
441102 2007 SD_{5}	16.9	X	124.95613	243.89372	115.11271	3.11687	0.2114518	0.23753217	2.5821874	21	1 5.7	20.4
441103 2007 SP_{6}	18.1	X	122.21315	331.59314	68.25418	14.09609	0.5460643	0.24046456	2.5611518	21	4 4.5	23.0
441104 2007 SB_{11}	17.5	X	171.56386	203.23504	126.84352	5.16278	0.2514382	0.24328941	2.5412882	21	1 18.8	21.6
441105 2007 SE_{24}	17.0	X	96.97866	64.05824	263.10633	5.79775	0.2558701	0.22574490	2.6713087	21	—	—
441106 2007 TF_{4}	17.0	X	139.73003	214.61927	151.76204	6.13902	0.3160375	0.23963860	2.5670335	21	2 10.2	21.1
441107 2007 TG_{5}	18.1	X	153.47918	136.38295	207.62726	5.17446	0.2462956	0.24229867	2.5482109	21	1 18.7	22.1
441108 2007 TZ_{5}	17.5	X	63.72609	45.71237	11.41402	4.63779	0.2741783	0.23244208	2.6197482	21	—	—
441109 2007 TV_{9}	17.4	X	93.29488	139.05191	189.99140	13.73123	0.2389402	0.22800663	2.6536139	21	—	—
441110 2007 TC_{12}	16.6	X	59.21308	36.65607	20.44544	13.62368	0.1239194	0.23172590	2.6251432	21	—	—
441111 2007 TD_{20}	17.7	X	119.86205	182.35302	201.35658	4.17722	0.2222980	0.23929766	2.5694712	21	1 30.6	21.2
441112 2007 TU_{23}	17.8	X	168.69482	10.71964	202.54184	20.64010	0.0375248	0.36098641	1.9534793	21	12 7.3	20.3
441113 2007 TO_{34}	17.2	X	78.19902	338.18669	37.12859	3.19780	0.1861531	0.22842076	2.6504055	21	—	—
441114 2007 TG_{35}	17.4	X	116.84105	4.05340	14.17797	6.09741	0.2662473	0.23630785	2.5910987	21	1 30.3	21.0
441115 2007 TX_{36}	18.0	X	127.45189	206.78025	190.23542	3.76715	0.1954483	0.24387116	2.5372451	21	2 21.1	21.6
441116 2007 TL_{38}	16.8	X	96.06806	197.82730	213.88287	12.18747	0.2623938	0.23583297	2.5945758	21	2 8.5	20.2
441117 2007 TT_{43}	16.7	X	65.12117	148.20845	224.86390	12.90881	0.2659820	0.22652723	2.6651548	21	—	—
441118 2007 TD_{46}	17.3	X	152.84751	335.61461	1.28419	4.94422	0.2733706	0.23868506	2.5738658	21	1 15.0	21.5
441119 2007 TV_{48}	17.6	X	103.97408	40.47698	348.41164	2.50392	0.2581580	0.23639717	2.5904459	21	1 24.9	20.8
441120 2007 TL_{56}	17.7	X	114.11673	199.64065	210.59224	11.32481	0.2389191	0.24052478	2.5607243	21	2 26.2	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441121 2007 TL_{62}	18.0	X	62.65644	39.15233	20.05951	1.90956	0.1424132	0.23248933	2.6193932	21	—	—
441122 2007 TK_{64}	17.7	X	20.56088	249.66605	178.86644	2.87093	0.1425492	0.22420152	2.6835540	21	—	—
441123 2007 TK_{76}	17.3	X	88.53968	232.40464	171.63216	14.68324	0.1657816	0.23970814	2.5665370	21	1 4.2	20.5
441124 2007 TN_{76}	17.8	X	94.26020	225.43931	153.85209	3.97686	0.1310732	0.23757704	2.5818623	21	—	—
441125 2007 TJ_{78}	17.5	X	100.64580	19.35902	357.28411	3.51822	0.1614461	0.23302614	2.6153689	21	—	—
441126 2007 TU_{86}	18.2	X	111.27069	193.38016	170.12848	3.67552	0.2434272	0.23384367	2.6092697	21	—	—
441127 2007 TW_{86}	17.6	X	31.73701	352.14797	87.69780	3.42621	0.1851205	0.22818517	2.6522295	21	—	—
441128 2007 TB_{88}	17.6	X	116.07823	244.34490	177.66867	4.54991	0.2290295	0.24219829	2.5489149	21	3 17.7	20.9
441129 2007 TM_{93}	17.9	X	113.02708	213.44724	171.67955	2.58235	0.2450676	0.23694424	2.5864571	21	1 28.7	21.2
441130 2007 TG_{95}	17.4	X	160.32422	247.41018	83.10898	5.96792	0.3215284	0.24107842	2.5568023	21	1 16.6	21.7
441131 2007 TG_{108}	16.4	X	32.87375	183.53257	196.32870	15.69880	0.1361250	0.22314418	2.6920245	21	—	—
441132 2007 TN_{111}	18.1	X	94.33846	115.29888	286.66763	3.83894	0.3124328	0.23656827	2.5891968	21	2 4.8	21.1
441133 2007 TZ_{114}	18.0	X	146.07420	235.95671	140.79980	3.30348	0.2806476	0.24310577	2.5425678	21	2 25.0	22.0
441134 2007 TM_{121}	15.5	X	250.61594	26.28042	359.84131	3.72684	0.2006860	0.12571959	3.9463967	21	6 4.2	21.7
441135 2007 TP_{125}	17.3	X	39.25658	339.23376	79.12459	3.08113	0.1230897	0.22755811	2.6570997	21	—	—
441136 2007 TA_{129}	17.5	X	118.23672	137.02145	227.08825	1.26932	0.1888787	0.23433659	2.6056094	21	1 1.2	20.8
441137 2007 TC_{132}	17.8	X	143.41148	174.48478	176.40114	1.84552	0.2382232	0.23878337	2.5731592	21	1 18.2	21.6
441138 2007 TS_{138}	16.6	X	92.44828	128.50526	285.71701	10.58211	0.1801763	0.23871120	2.5736779	21	1 26.1	19.5
441139 2007 TG_{142}	17.2	X	111.17571	235.06923	159.50524	6.58218	0.3427683	0.23689508	2.5868149	21	2 21.2	20.8
441140 2007 TC_{143}	16.3	X	72.63944	195.73094	144.35953	37.66627	0.3021455	0.22519827	2.6756297	21	—	—
441141 2007 TO_{146}	17.6	X	125.66743	327.66415	33.92409	5.76176	0.3345429	0.23726183	2.5841485	21	1 27.5	21.5
441142 2007 TV_{148}	16.5	X	65.49259	358.85128	18.14899	8.69317	0.0947967	0.22732575	2.6589099	21	—	—
441143 2007 TO_{170}	17.6	X	110.72208	145.55441	266.82869	3.48887	0.3418329	0.23867846	2.5739132	21	3 12.9	21.4
441144 2007 TV_{180}	17.9	X	148.09678	283.37968	63.59744	6.47425	0.3485204	0.24127174	2.5554364	21	1 29.8	22.2
441145 2007 TM_{194}	17.5	X	42.74639	60.24240	29.89721	2.26039	0.1358554	0.23367738	2.6105074	21	—	—
441146 2007 TU_{197}	17.0	X	213.00108	207.89814	15.93947	16.75887	0.1266169	0.22634372	2.6665951	21	—	—
441147 2007 TT_{200}	18.6	X	137.29724	95.25091	249.91238	0.84735	0.3180138	0.23823382	2.5771149	21	1 14.5	22.6
441148 2007 TE_{201}	17.5	X	145.23544	95.70479	230.15267	1.57794	0.1232395	0.23362855	2.6108712	21	—	—
441149 2007 TT_{204}	17.2	X	105.32850	239.30002	94.57373	4.12937	0.0964250	0.22532156	2.6746537	21	—	—
441150 2007 TZ_{207}	16.7	X	54.27036	342.32873	67.58389	12.41677	0.1931016	0.22997485	2.6384517	21	—	—
441151 2007 TC_{218}	17.5	X	111.79792	349.63686	28.41527	5.89154	0.2107675	0.23458645	2.6037589	21	1 15.4	20.9
441152 2007 TV_{221}	18.6	X	131.22006	338.22134	16.65750	4.99967	0.3147424	0.24060698	2.5601411	21	1 21.4	22.5
441153 2007 TD_{222}	17.7	X	160.57998	238.15908	78.15782	1.64894	0.1976851	0.23765782	2.5812772	21	—	—
441154 2007 TU_{226}	17.7	X	113.88521	336.43941	42.46266	5.99303	0.0830488	0.23575283	2.5951638	21	—	—
441155 2007 TZ_{226}	16.8	X	152.46933	295.24125	27.60019	15.27266	0.1505739	0.23459779	2.6036750	21	—	—
441156 2007 TR_{229}	17.4	X	157.67861	58.14519	215.31780	7.57522	0.0868123	0.22387863	2.6861337	21	—	—
441157 2007 TY_{232}	17.5	X	88.08475	196.87441	194.36380	2.01264	0.1012083	0.23081252	2.6320642	21	—	—
441158 2007 TM_{238}	17.3	X	91.22414	98.06190	287.88540	3.69042	0.2729860	0.23303832	2.6152778	21	1 4.3	20.0
441159 2007 TC_{248}	17.3	X	106.76975	52.10217	349.07470	13.57309	0.2880025	0.23894350	2.5720095	21	2 19.9	20.7
441160 2007 TN_{262}	17.1	X	121.88943	86.37296	221.86635	11.69828	0.2780773	0.22764566	2.6564183	21	—	—
441161 2007 TG_{271}	17.4	X	78.40257	4.36547	0.50376	2.85814	0.0943687	0.22682701	2.6628060	21	—	—
441162 2007 TB_{275}	17.3	X	134.39154	289.70113	40.26021	5.17242	0.1875602	0.23575564	2.5951431	21	—	—
441163 2007 TX_{277}	18.1	X	163.67363	79.00345	229.74721	2.63536	0.1637808	0.23701504	2.5859420	21	—	—
441164 2007 TK_{278}	17.2	X	352.90697	148.45719	247.75346	2.11486	0.1821484	0.21582706	2.7525303	21	12 6.1	19.9
441165 2007 TD_{286}	17.6	X	143.57926	301.19184	40.41889	6.54047	0.1927082	0.23878722	2.5731316	21	1 2.7	21.4
441166 2007 TQ_{312}	17.7	X	100.03684	318.65201	50.59614	6.55466	0.2107961	0.23320384	2.6140401	21	—	—
441167 2007 TB_{316}	17.7	X	151.97962	235.12664	72.87302	3.37415	0.1705416	0.23144842	2.6272409	21	—	—
441168 2007 TE_{319}	17.7	X	102.28665	240.98742	160.79881	2.35670	0.1210995	0.23585982	2.5943789	21	1 17.3	20.7
441169 2007 TZ_{330}	17.6	X	112.73923	121.88472	264.09704	2.93129	0.2827315	0.23686440	2.5870383	21	2 3.5	21.1
441170 2007 TX_{332}	17.9	X	147.91902	16.36255	1.73079	2.30181	0.2586359	0.24289312	2.5440515	21	2 26.4	21.8
441171 2007 TF_{350}	17.4	X	114.92486	239.21333	155.56097	7.19911	0.2308301	0.24363684	2.5388716	21	2 8.9	20.7
441172 2007 TD_{365}	17.1	X	106.24420	84.73498	315.46293	10.26209	0.2093824	0.23831857	2.5765038	21	2 3.3	20.3
441173 2007 TG_{367}	17.5	X	114.09634	64.71009	324.35694	3.23089	0.2139420	0.23717184	2.5848021	21	1 31.3	20.8
441174 2007 TZ_{377}	17.6	X	107.47725	242.30418	122.32521	4.37175	0.2516618	0.23421010	2.6065474	21	—	—
441175 2007 TY_{387}	17.5	X	144.90955	290.95045	40.53486	4.51252	0.1733983	0.23794173	2.5792234	21	—	—
441176 2007 TX_{395}	16.7	X	315.34724	251.18997	274.91135	6.09935	0.1554776	0.23019272	2.6367866	21	—	—
441177 2007 TM_{403}	17.3	X	126.30584	84.69684	301.59916	2.24447	0.1350723	0.23871016	2.5736853	21	1 30.7	20.7
441178 2007 TK_{411}	17.8	X	144.97811	32.94124	203.08474	21.39525	0.0602760	0.35955696	1.9586534	21	12 6.5	20.5
441179 2007 TH_{412}	17.2	X	154.55387	3.25409	343.56639	7.31381	0.2016413	0.24004445	2.5641392	21	1 22.1	21.2
441180 2007 TW_{423}	17.2	X	66.10167	219.56332	199.42887	9.40828	0.1056306	0.23475669	2.6024999	21	—	—
441181 2007 TF_{424}	17.6	X	176.09182	253.49847	28.16109	4.90464	0.1783801	0.23310927	2.6147471	21	—	—
441182 2007 TD_{425}	17.8	X	124.05651	56.00642	3.55535	12.50636	0.2682372	0.24422091	2.5348221	21	3 27.2	21.4
441183 2007 TC_{427}	17.8	X	109.32756	329.85156	34.18384	5.01653	0.1325208	0.23343928	2.6122822	21	—	—
441184 2007 TB_{429}	17.2	X	131.53308	278.07376	34.78048	2.06562	0.0874936	0.22786768	2.6546925	21	—	—
441185 2007 TO_{430}	17.3	X	130.16285	186.07384	107.45505	6.12003	0.0892680	0.22106084	2.7089117	21	—	—
441186 2007 TO_{434}	15.6	X	256.12867	323.59082	65.83740	10.09732	0.2395407	0.12352478	3.9930063	21	6 9.5	21.7
441187 2007 TW_{438}	17.9	X	97.55320	326.49740	78.25372	2.24609	0.1438272	0.23785618	2.5798419	21	1 17.9	20.8
441188 2007 TC_{441}	17.0	X	71.60007	283.36073	95.42449	10.16988	0.1955320	0.22805430	2.6532441	21	—	—
441189 2007 TN_{444}	17.7	X	134.56911	261.91135	134.50925	4.87657	0.2599251	0.24277572	2.5448716	21	3 9.6	21.5
441190 2007 TD_{453}	17.0	X	91.25449	245.47836	66.66826	5.02991	0.0409114	0.21439140	2.7648048	21	12 13.7	20.8
441191 2007 UC_{7}	17.1	X	81.25877	94.94779	287.78059	15.33127	0.2460805	0.23220156	2.6215569	21	—	—
441192 2007 UR_{7}	16.9	X	100.59400	61.58240	327.34470	16.75744	0.3061127	0.23582806	2.5946118	21	1 30.5	20.1
441193 2007 UQ_{8}	17.4	X	127.21502	21.80914	315.82135	11.32951	0.2396615	0.23400478	2.6080719	21	—	—
441194 2007 UU_{15}	17.6	X	149.66789	118.10490	186.22072	4.20995	0.2415240	0.23580992	2.5947449	21	—	—
441195 2007 UL_{21}	17.8	X	49.40578	214.28340	189.11646	1.38202	0.0819636	0.22757775	2.6569468	21	—	—
441196 2007 UO_{42}	17.3	X	71.17928	52.70682	356.88467	4.22175	0.1678519	0.23111623	2.6297578	21	—	—
441197 2007 UZ_{58}	17.6	X	96.67865	356.57234	41.67339	6.62639	0.0927009	0.23467558	2.6030996	21	1 1.6	20.8
441198 2007 UL_{62}	17.6	X	124.47873	336.50205	26.48758	2.09917	0.1551203	0.23797333	2.5789951	21	1 2.2	21.0
441199 2007 UU_{64}	17.3	X	15.90536	152.74650	210.01631	4.92542	0.0915661	0.21363618	2.7713168	21	11 18.8	20.7
441200 2007 UB_{68}	17.4	X	74.12300	352.08615	73.53489	6.01411	0.2573301	0.23465125	2.6032796	21	1 26.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441201 2007 UK_{77}	17.1	X	87.98005	291.36711	130.67277	10.09975	0.1959251	0.23692577	2.5865915	21	2 3.6	20.0
441202 2007 UB_{82}	17.7	X	158.62067	105.03495	229.10516	2.13704	0.2077768	0.23882044	2.5728930	21	1 9.4	21.6
441203 2007 UT_{83}	17.9	X	131.63821	114.61184	212.31108	1.31206	0.2148382	0.23095039	2.6310166	21	—	—
441204 2007 UG_{88}	16.4	X	167.50956	34.65782	238.45072	13.14915	0.1785372	0.22402061	2.6849986	21	—	—
441205 2007 UR_{91}	17.5	X	119.81264	123.38246	229.69311	5.92455	0.1915572	0.23203405	2.6228185	21	—	—
441206 2007 UU_{103}	16.3	X	153.90493	145.61454	86.18094	4.85740	0.0428026	0.20913298	2.8109580	21	11 16.9	20.3
441207 2007 UM_{106}	17.5	X	59.71116	8.51766	35.50814	7.44880	0.0853055	0.22747743	2.6577279	21	—	—
441208 2007 UH_{123}	17.2	X	164.56725	231.02258	103.67954	5.96880	0.2917697	0.24218684	2.5489953	21	1 22.2	21.5
441209 2007 UU_{131}	17.6	X	153.12099	238.12913	77.64404	12.09538	0.3023379	0.23440522	2.6051008	21	—	—
441210 2007 VX_{5}	17.0	X	126.81419	256.78229	147.62286	4.86178	0.2612107	0.24122294	2.5557811	21	3 11.9	20.8
441211 2007 VX_{10}	17.2	X	123.64078	283.84950	72.44103	7.10672	0.3089597	0.23475312	2.6025263	21	1 15.3	21.0
441212 2007 VZ_{10}	17.7	X	92.97549	296.51580	93.26147	5.56436	0.2859007	0.23240264	2.6200446	21	1 15.1	20.6
441213 2007 VC_{12}	16.7	X	27.58657	197.56289	241.12108	13.90477	0.0755859	0.22625196	2.6673160	21	—	—
441214 2007 VS_{40}	17.1	X	120.16808	184.28921	165.59854	4.85546	0.2211539	0.23338369	2.6126970	21	—	—
441215 2007 VP_{42}	17.2	X	84.13638	74.10783	296.07798	12.82015	0.2172962	0.22082166	2.7108674	21	—	—
441216 2007 VL_{45}	17.8	X	94.32729	52.36458	349.37736	4.44260	0.2085180	0.23491578	2.6013248	21	1 20.7	20.7
441217 2007 VN_{46}	18.0	X	109.82617	0.49957	0.46199	5.15665	0.2589824	0.23280796	2.6170026	21	—	—
441218 2007 VU_{46}	16.7	X	341.81735	219.32287	273.71237	4.69009	0.1207776	0.22720642	2.6598408	21	—	—
441219 2007 VN_{56}	17.1	X	101.97124	238.57547	116.55814	4.18636	0.1377048	0.22780245	2.6551993	21	—	—
441220 2007 VL_{63}	18.2	X	44.84913	211.33980	235.75053	21.25744	0.1359695	0.37417196	1.9073126	21	—	—
441221 2007 VK_{72}	16.8	X	89.27261	337.19541	56.44851	11.93747	0.2234540	0.23097560	2.6308251	21	1 4.2	19.8
441222 2007 VL_{72}	17.4	X	130.24939	296.84593	64.35848	3.23741	0.2489008	0.23495998	2.6009986	21	1 20.5	21.1
441223 2007 VW_{79}	17.6	X	130.72208	99.99910	235.14319	1.72295	0.2737994	0.23166091	2.6256341	21	—	—
441224 2007 VH_{84}	17.6	X	82.26533	352.61402	359.13124	5.55879	0.0514110	0.22370870	2.6874938	21	—	—
441225 2007 VA_{87}	16.9	X	89.00782	144.79002	248.71384	11.10250	0.1195458	0.23247600	2.6194934	21	—	—
441226 2007 VS_{111}	16.6	X	286.24782	239.99944	235.31113	7.46759	0.1622189	0.21082384	2.7959082	21	11 17.3	19.8
441227 2007 VN_{112}	17.1	X	175.19197	162.69860	67.65275	1.50837	0.0155221	0.21394768	2.7686262	21	12 10.8	21.0
441228 2007 VM_{117}	16.6	X	78.97608	277.00687	76.36493	11.66379	0.2850796	0.22602028	2.6691385	21	—	—
441229 2007 VE_{125}	17.1	X	133.45523	186.67575	188.79804	9.89848	0.2106668	0.23838460	2.5760280	21	2 2.1	21.0
441230 2007 VN_{126}	17.2	X	113.44133	172.50368	235.95416	3.20282	0.2335524	0.23909163	2.5709471	21	2 24.8	20.8
441231 2007 VJ_{160}	17.6	X	140.96209	170.47771	178.70636	4.78415	0.2389171	0.23628174	2.5912895	21	1 13.8	21.6
441232 2007 VT_{162}	18.0	X	56.09839	20.13309	20.72895	2.95490	0.1143757	0.22500235	2.6771827	21	—	—
441233 2007 VF_{163}	16.9	X	186.90825	65.94452	256.99894	5.84239	0.3012532	0.24150836	2.5537670	21	1 23.4	21.6
441234 2007 VV_{167}	16.9	X	141.76612	98.44835	256.35463	10.55684	0.1986324	0.23458656	2.6037581	21	1 15.8	20.9
441235 2007 VH_{188}	17.0	X	94.67422	334.08200	58.31792	14.53823	0.1258664	0.23193288	2.6235812	21	—	—
441236 2007 VN_{188}	17.4	X	75.25509	269.20808	120.38791	3.24487	0.2135965	0.22899255	2.6459917	21	—	—
441237 2007 VS_{208}	16.3	X	327.43255	19.04986	107.95267	17.51255	0.1852307	0.21354796	2.7720800	21	—	—
441238 2007 VF_{214}	17.2	X	140.17623	152.40311	117.62114	5.38881	0.0158904	0.21597144	2.7513035	21	12 18.5	21.0
441239 2007 VA_{220}	16.9	X	49.56660	322.01501	79.87176	6.46096	0.0802426	0.22150152	2.7053175	21	—	—
441240 2007 VK_{221}	18.1	X	117.25930	89.86037	250.35132	1.18921	0.2212145	0.23135681	2.6279344	21	—	—
441241 2007 VS_{221}	17.4	X	98.93757	238.48319	193.74964	4.99728	0.3052038	0.23843434	2.5756698	21	3 21.5	20.7
441242 2007 VW_{223}	17.7	X	73.57577	271.62105	137.05055	4.21699	0.2605629	0.23157691	2.6262690	21	—	—
441243 2007 VJ_{233}	17.6	X	87.08295	278.86181	71.30312	2.23665	0.1031213	0.22299931	2.6931903	21	—	—
441244 2007 VS_{240}	16.4	X	77.68479	307.01292	89.05460	14.28016	0.1882442	0.22889108	2.6467737	21	—	—
441245 2007 VW_{240}	17.2	X	137.76979	274.86829	93.25271	12.52909	0.3074607	0.23908418	2.5710004	21	2 13.4	21.4
441246 2007 VV_{246}	16.8	X	156.01959	39.56446	263.12602	12.51922	0.1717161	0.22990675	2.6389727	21	—	—
441247 2007 VU_{250}	16.4	X	289.57120	208.16815	288.95718	7.89067	0.0417312	0.22014562	2.7164144	21	—	—
441248 2007 VA_{252}	17.7	X	66.40605	263.64920	130.58103	3.50353	0.1760497	0.22770694	2.6559417	21	—	—
441249 2007 VW_{252}	17.6	X	69.19831	259.28420	147.86506	4.28989	0.2539322	0.23040739	2.6351486	21	—	—
441250 2007 VY_{255}	17.7	X	117.69742	329.92951	22.08772	3.82387	0.1675994	0.23018380	2.6368548	21	—	—
441251 2007 VF_{264}	17.2	X	133.62370	338.35585	32.97746	3.29348	0.0664072	0.23449112	2.6044645	21	1 12.7	20.7
441252 2007 VO_{266}	16.5	X	201.01284	219.61827	83.78000	10.13850	0.1186471	0.23275197	2.6174224	21	1 7.6	20.5
441253 2007 VX_{268}	16.7	X	99.09884	337.18278	93.79920	8.71012	0.1264414	0.23796097	2.5790845	21	2 24.6	20.0
441254 2007 VZ_{275}	17.0	X	46.43246	329.67349	72.73379	6.15925	0.1109889	0.22240374	2.6979962	21	—	—
441255 2007 VG_{280}	18.1	X	132.61562	105.14416	238.22139	3.33820	0.2235550	0.23347320	2.6120292	21	—	—
441256 2007 VY_{287}	17.2	X	73.03350	354.31913	14.43354	6.29321	0.0413034	0.22186470	2.7023644	21	—	—
441257 2007 VY_{292}	16.6	X	78.68344	261.85194	130.77786	12.97640	0.2130439	0.23005519	2.6378374	21	—	—
441258 2007 VR_{300}	17.1	X	93.42720	199.86431	217.36335	12.57638	0.2554912	0.23525265	2.5988410	21	2 10.5	20.5
441259 2007 VP_{303}	16.8	X	126.80007	25.01751	338.69096	14.72240	0.1053539	0.23531060	2.5984142	21	1 1.6	20.5
441260 2007 VD_{309}	17.3	X	53.22078	71.82156	312.19572	5.72282	0.0515411	0.22198689	2.7013726	21	—	—
441261 2007 VG_{309}	17.7	X	128.92498	11.02226	359.59595	5.19501	0.2662247	0.23747678	2.5825889	21	2 2.2	21.5
441262 2007 VL_{311}	16.8	X	61.61862	191.41040	233.26381	12.27781	0.2687937	0.22912295	2.6449877	21	—	—
441263 2007 VE_{312}	16.7	X	319.36475	237.54033	256.63693	12.50106	0.1571407	0.22007742	2.7169755	21	—	—
441264 2007 VP_{314}	17.0	X	38.47416	319.83340	94.35672	7.06916	0.1293629	0.22492951	2.6777607	21	—	—
441265 2007 VF_{315}	17.5	X	118.96875	141.09554	235.75588	10.77537	0.1992173	0.23447568	2.6045788	21	1 16.9	21.1
441266 2007 VE_{323}	17.0	X	44.19206	130.79615	308.48902	5.83283	0.3846767	0.22721596	2.6597664	21	—	—
441267 2007 VH_{328}	17.0	X	96.94014	85.60472	269.84214	9.96163	0.2084717	0.22768416	2.6561188	21	—	—
441268 2007 VA_{329}	16.9	X	76.69430	340.80256	77.56805	12.62609	0.1671993	0.23182050	2.6244290	21	1 7.5	19.7
441269 2007 VB_{330}	15.9	X	99.05199	91.94407	86.68233	15.65218	0.1391997	0.17790135	3.1310011	21	7 18.1	20.6
441270 2007 VE_{330}	16.3	X	99.24098	101.23022	260.18183	25.94416	0.3102605	0.23131730	2.6282336	21	—	—
441271 2007 VL_{333}	17.1	X	97.13122	228.65342	143.07315	6.52831	0.3089388	0.23062188	2.6335145	21	1 1.3	20.1
441272 2007 VB_{334}	17.1	X	50.00275	5.69022	47.84728	5.76703	0.1764716	0.22202377	2.7010735	21	—	—
441273 2007 WF_{1}	17.8	X	105.00799	80.00677	265.90711	1.14021	0.1378558	0.22728507	2.6592272	21	—	—
441274 2007 WJ_{6}	16.1	X	144.60314	73.00504	270.55179	15.59744	0.2631040	0.23476157	2.6024639	21	1 12.1	20.2
441275 2007 WF_{7}	17.3	X	118.74472	355.78435	23.46007	5.35465	0.2567387	0.23585725	2.5943977	21	2 1.4	20.9
441276 2007 WR_{12}	17.2	X	92.84239	90.35737	315.62958	3.22019	0.2937381	0.23138992	2.6276837	21	2 6.7	20.0
441277 2007 WK_{29}	16.9	X	39.22335	142.67535	271.05833	8.76379	0.0828906	0.22348316	2.6893016	21	—	—
441278 2007 WB_{44}	16.1	X	192.46927	221.21589	303.98592	9.65155	0.1066996	0.19119993	2.9840830	21	9 27.7	20.9
441279 2007 WL_{58}	16.6	X	63.21298	123.33765	262.35902	5.05411	0.0418636	0.22222270	2.6994613	21	—	—
441280 2007 XK_{6}	17.6	X	37.64660	308.94844	106.80736	5.93975	0.2474325	0.22417947	2.6837300	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441281 2007 XQ_{11}	17.3	X	116.40959	284.62456	85.12098	4.08490	0.2599857	0.23418559	2.6067293	21	1 17.0	20.7
441282 2007 XY_{11}	16.6	X	74.05780	312.39545	57.12503	10.74566	0.0966269	0.22421239	2.6834673	21	—	—
441283 2007 XL_{16}	16.9	X	89.94075	326.67710	48.01324	6.88414	0.2082271	0.22728104	2.6592586	21	—	—
441284 2007 XJ_{17}	16.6	X	26.95940	348.90613	88.71830	14.85394	0.2530984	0.22159167	2.7045837	21	—	—
441285 2007 XO_{19}	16.6	X	98.13260	88.16058	269.26327	10.91687	0.2872108	0.22900085	2.6459278	21	—	—
441286 2007 XZ_{31}	16.5	X	53.49789	56.09951	261.05858	12.72965	0.2150165	0.21076949	2.7963888	21	11 27.9	20.5
441287 2007 XX_{33}	17.2	X	115.71638	90.32192	310.84006	2.84130	0.2512594	0.23704869	2.5856973	21	2 21.9	20.8
441288 2007 XP_{39}	17.2	X	51.30121	133.65274	292.36805	12.26682	0.2335106	0.22476097	2.6790991	21	—	—
441289 2007 XH_{53}	17.8	X	93.13683	14.35401	22.03728	1.70932	0.3173910	0.22849499	2.6498316	21	1 30.7	20.8
441290 2007 XC_{56}	16.9	X	54.12925	18.96499	56.46834	14.81251	0.2293667	0.22644551	2.6657960	21	—	—
441291 2007 YY_{4}	16.7	X	80.84478	2.31052	54.45834	10.10391	0.1614550	0.23188816	2.6239184	21	1 12.8	19.7
441292 2007 YM_{13}	16.8	X	55.21020	292.43285	88.73327	14.72876	0.1160163	0.21484889	2.7608786	21	—	—
441293 2007 YZ_{14}	16.0	X	98.71053	127.73877	272.08336	30.82735	0.2153787	0.23308513	2.6149276	21	1 16.4	19.5
441294 2007 YO_{15}	17.2	X	114.89626	63.34176	282.58472	4.96206	0.0816616	0.22369561	2.6875986	21	—	—
441295 2007 YG_{35}	17.2	X	31.98701	147.33695	294.48855	7.41102	0.1436542	0.22191091	2.7019892	21	—	—
441296 2007 YV_{38}	16.9	X	45.65562	344.69329	78.07431	6.05438	0.1016895	0.22090583	2.7101787	21	—	—
441297 2007 YL_{40}	17.5	X	78.09251	305.78426	45.28667	6.75795	0.0691972	0.21367483	2.7709827	21	—	—
441298 2007 YP_{53}	16.8	X	72.03109	118.79301	307.31778	29.79733	0.3127229	0.22767930	2.6561566	21	1 30.9	19.1
441299 2007 YB_{55}	16.7	X	302.14712	333.12146	101.47528	11.96353	0.0924326	0.20006864	2.8952320	21	10 31.7	20.5
441300 2007 YC_{57}	16.7	X	15.53386	129.59479	290.31223	6.17532	0.0612571	0.21206685	2.7849722	21	—	—
441301 2007 YC_{63}	16.2	X	5.14032	201.95514	110.25473	11.08749	0.0999774	0.18666572	3.0322127	21	8 25.9	20.0
441302 2007 YG_{72}	16.6	X	99.42916	334.14718	98.10338	13.03255	0.1702420	0.23174309	2.6250134	21	3 9.0	20.2
441303 2008 AL_{4}	17.1	X	63.28470	110.30771	297.99599	11.62805	0.3543030	0.22424098	2.6832392	21	—	—
441304 2008 AU_{26}	20.9	X	109.35875	128.69430	299.50925	2.66426	0.1024638	0.59824563	1.3949213	21	—	—
441305 2008 AG_{38}	17.4	X	356.88289	287.63533	140.47031	8.26035	0.2171438	0.21201640	2.7854139	21	—	—
441306 2008 AK_{39}	16.7	X	112.99853	298.32566	117.16398	9.31417	0.2346748	0.23250588	2.6192689	21	3 11.4	20.4
441307 2008 AA_{41}	16.4	X	69.99744	80.56906	119.45156	14.28278	0.0823134	0.17204215	3.2016914	21	6 30.5	20.8
441308 2008 AS_{52}	16.8	X	160.75616	339.51219	291.59993	3.49036	0.0690673	0.20967218	2.8061368	21	—	—
441309 2008 AO_{59}	16.7	X	1.38100	144.52167	295.43312	6.54063	0.1164030	0.21302401	2.7766236	21	—	—
441310 2008 AQ_{67}	17.0	X	276.15005	151.01064	307.58592	5.08867	0.0294517	0.19669823	2.9282113	21	10 25.5	21.0
441311 2008 AM_{72}	15.4	X	75.24702	268.26506	304.29058	21.27490	0.3648719	0.17268395	3.1937536	21	8 23.7	20.6
441312 2008 AZ_{76}	16.8	X	68.62182	19.18098	14.79202	3.58329	0.1852667	0.21957926	2.7210833	21	—	—
441313 2008 AX_{83}	17.6	X	294.53678	146.28346	302.13003	15.97515	0.1000149	0.34837040	2.0003618	21	12 5.6	19.4
441314 2008 AG_{91}	17.2	X	40.81266	111.58214	286.15373	5.52015	0.0784038	0.21347635	2.7727000	21	—	—
441315 2008 AJ_{91}	17.0	X	24.68278	302.46337	113.36891	4.88908	0.0870624	0.21555482	2.7548475	21	—	—
441316 2008 AV_{125}	17.7	X	37.59324	274.23180	118.95281	8.63979	0.2359389	0.21422496	2.7662367	21	—	—
441317 2008 AF_{127}	16.0	X	252.39318	215.09814	329.78797	14.07396	0.0897069	0.21040879	2.7995838	21	—	—
441318 2008 AJ_{134}	17.5	X	56.79141	327.86488	54.74338	3.62549	0.1891490	0.21619832	2.7493783	21	—	—
441319 2008 AH_{136}	17.0	X	317.60494	85.26562	30.33890	8.42832	0.1716904	0.20987029	2.8043706	21	—	—
441320 2008 AF_{138}	16.8	X	11.87775	293.98339	140.92243	14.05691	0.1298416	0.21491724	2.7602932	21	—	—
441321 2008 BE_{4}	16.8	X	315.74691	134.33294	314.93214	14.50362	0.1059020	0.20548046	2.8441709	21	12 4.6	20.4
441322 2008 BK_{39}	16.9	X	39.78163	106.31525	325.09112	12.59774	0.2295987	0.22126084	2.7072790	21	—	—
441323 2008 BK_{50}	16.5	X	358.67347	199.25638	273.76420	13.19454	0.0519618	0.22475139	2.6791753	21	—	—
441324 2008 CR_{3}	16.6	X	39.10260	287.31000	137.47884	8.31353	0.2094938	0.21564006	2.7541214	21	—	—
441325 2008 CO_{8}	16.4	X	330.29643	338.80439	136.99916	11.50265	0.2583943	0.21188389	2.7865751	21	—	—
441326 2008 CE_{36}	16.4	X	19.85272	38.93509	312.78995	8.78370	0.0756334	0.19289672	2.9665579	21	10 31.1	20.5
441327 2008 CQ_{55}	16.9	X	332.70342	341.99899	132.54924	10.27666	0.2411273	0.21086965	2.7955032	21	—	—
441328 2008 CE_{61}	16.5	X	306.01689	63.12073	356.66231	10.30456	0.0593653	0.19128261	2.9832230	21	10 11.9	20.5
441329 2008 CJ_{61}	16.8	X	340.85050	89.40653	351.26965	14.47428	0.1249116	0.20409088	2.8570663	21	—	—
441330 2008 CL_{79}	17.0	X	326.93216	88.64684	346.68468	9.01266	0.1048014	0.20189589	2.8777367	21	12 3.1	20.5
441331 2008 CQ_{84}	16.9	X	67.54244	287.21229	154.38078	13.42043	0.2460092	0.22633332	2.6666768	21	2 3.0	19.5
441332 2008 CA_{110}	15.9	X	92.77551	246.41806	338.11870	14.82872	0.1946664	0.17501575	3.1653225	21	9 10.3	20.8
441333 2008 CB_{120}	16.6	X	226.26846	172.27580	317.13358	9.48948	0.0593414	0.19088522	2.9873620	21	9 25.3	21.0
441334 2008 CC_{120}	17.2	X	45.12554	89.18848	322.30667	12.63014	0.2519448	0.21710925	2.7416825	21	—	—
441335 2008 CG_{125}	16.2	X	91.42358	327.82459	309.97241	7.43618	0.0371950	0.19956989	2.9000537	21	10 26.4	20.4
441336 2008 CM_{130}	16.2	X	87.75503	312.75670	322.92999	7.85039	0.1047969	0.18876899	3.0096474	21	10 26.2	20.7
441337 2008 CZ_{132}	16.2	X	189.17333	295.98816	152.05718	11.04479	0.1357454	0.17500108	3.1654994	21	6 25.7	21.4
441338 2008 CD_{137}	16.7	X	65.35879	110.45227	157.65037	3.07427	0.1972296	0.18275847	3.0752779	21	10 7.3	21.0
441339 2008 CT_{138}	16.3	X	61.40990	127.61754	148.66669	12.69457	0.1164798	0.18147717	3.0897360	21	10 3.5	20.7
441340 2008 CG_{141}	16.0	X	80.56049	275.33694	331.44605	16.51678	0.0798725	0.17946851	3.1127474	21	9 8.2	20.5
441341 2008 CA_{150}	16.0	X	64.40905	309.55494	323.99723	10.34333	0.0509299	0.18304531	3.0720643	21	9 17.5	20.3
441342 2008 CD_{152}	15.8	X	94.03431	297.24185	327.27905	16.90472	0.2129758	0.18344528	3.0675973	21	10 25.4	21.0
441343 2008 CM_{155}	16.5	X	333.87691	352.15389	98.71678	7.29321	0.0284028	0.20364169	2.8612661	21	—	—
441344 2008 CD_{191}	17.9	X	1.71843	137.83556	139.51394	7.44738	0.2571425	0.31585054	2.1354118	21	6 28.6	18.4
441345 2008 CH_{192}	16.5	X	89.22412	36.78864	166.75808	15.03670	0.1927308	0.17071537	3.2182589	21	8 11.5	21.4
441346 2008 CS_{199}	16.8	X	303.21733	79.27425	347.13753	5.13914	0.0241228	0.18895118	3.0077124	21	10 20.3	21.0
441347 2008 CL_{206}	16.9	X	193.03503	338.96122	170.86599	9.75252	0.0879671	0.18513550	3.0488981	21	9 15.1	21.4
441348 2008 CO_{210}	16.2	X	163.17335	318.64401	161.90675	11.70305	0.1319481	0.17643771	3.1482928	21	7 9.8	21.4
441349 2008 CG_{212}	16.2	X	344.41500	75.33598	353.41627	10.00842	0.0539736	0.20113580	2.8849821	21	12 21.3	20.2
441350 2008 DL_{3}	16.5	X	117.28383	264.07156	328.35011	13.88168	0.0757212	0.18683124	3.0304216	21	9 30.1	21.2
441351 2008 DR_{4}	15.8	X	67.45836	254.71322	344.27636	24.79215	0.2571102	0.17359581	3.1825596	21	9 9.3	20.4
441352 2008 DS_{5}	16.4	X	23.80740	127.68227	303.62741	11.00110	0.0690248	0.21612585	2.7499929	21	—	—
441353 2008 DG_{14}	16.3	X	109.69486	118.18801	137.90858	12.15926	0.0928023	0.18916910	3.0054021	21	11 2.0	21.0
441354 2008 DL_{17}	16.4	X	165.92174	6.99830	160.28047	10.26072	0.0920050	0.18215207	3.0820994	21	9 8.5	21.1
441355 2008 DD_{34}	15.9	X	87.28981	63.95451	166.14100	27.61351	0.1618181	0.17740307	3.1368611	21	9 9.4	20.5
441356 2008 DF_{39}	16.1	X	80.29538	261.12857	357.11441	15.12821	0.2030626	0.17618648	3.1512849	21	10 7.6	20.9
441357 2008 DF_{52}	15.7	X	237.47633	305.21221	121.22830	11.51667	0.1143651	0.18055822	3.1002106	21	7 18.4	20.3
441358 2008 DC_{63}	16.6	X	27.10644	321.63207	130.85510	5.65704	0.0831843	0.21425645	2.7659656	21	—	—
441359 2008 DH_{72}	16.2	X	104.52694	259.09680	337.63459	10.10208	0.0520566	0.18429705	3.0581383	21	9 21.9	20.7
441360 2008 DV_{75}	16.7	X	103.00428	275.10992	0.84831	5.18113	0.1448713	0.18919388	3.0051397	21	11 17.4	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441361 2008 DR_{77}	16.4	X	42.93219	134.70337	135.57089	11.65929	0.2026641	0.17457065	3.1707006	21	9 11.8	20.4
441362 2008 DC_{79}	16.5	X	116.46101	284.76750	336.06956	7.00441	0.0258237	0.18906121	3.0065454	21	11 2.1	20.8
441363 2008 DC_{81}	16.2	X	4.41051	262.32276	167.48604	15.07315	0.1329557	0.20439973	2.8541876	21	—	—
441364 2008 DY_{81}	16.0	X	86.75068	224.17026	9.77297	14.20443	0.2323047	0.17376943	3.1804395	21	9 23.4	20.8
441365 2008 DK_{86}	16.6	X	20.85824	196.01108	147.24273	7.68092	0.0916062	0.18927404	3.0042911	21	10 29.8	20.5
441366 2008 DN_{86}	16.3	X	126.56226	321.89906	266.45167	5.17967	0.1575099	0.18206559	3.0830753	21	10 13.8	21.3
441367 2008 EN_{5}	15.6	X	57.93803	109.13251	160.56879	24.07495	0.1389982	0.17756967	3.1348988	21	9 22.2	19.9
441368 2008 EB_{11}	16.5	X	85.25970	145.56724	94.27527	6.07256	0.1068511	0.17738501	3.1370741	21	9 15.1	21.1
441369 2008 EH_{11}	16.1	X	343.09859	13.14420	25.66825	10.04590	0.0723523	0.19223415	2.9733704	21	11 8.5	19.9
441370 2008 EP_{17}	16.6	X	243.49088	134.51072	327.34962	7.21278	0.1221405	0.18223902	3.0811190	21	9 5.5	21.1
441371 2008 EH_{21}	17.9	X	311.36412	307.83967	278.45226	1.63628	0.1559495	0.29233378	2.2484507	21	1 9.6	20.7
441372 2008 EJ_{25}	15.7	X	206.82908	162.86745	322.40305	9.32396	0.0499182	0.18121745	3.0926876	21	8 31.4	20.3
441373 2008 EW_{34}	16.0	X	119.40869	29.45609	190.37447	16.15017	0.1274849	0.17862583	3.1225295	21	9 26.1	20.8
441374 2008 EL_{43}	15.9	X	123.12518	45.67100	158.46430	27.99375	0.1427841	0.17769571	3.1334162	21	9 13.8	20.8
441375 2008 ET_{59}	16.3	X	96.02528	235.78205	352.61619	11.07387	0.0382094	0.17613926	3.1518480	21	9 2.9	20.9
441376 2008 EG_{62}	16.3	X	210.30753	312.13650	193.02021	11.17339	0.0470793	0.18796909	3.0181797	21	10 1.2	20.7
441377 2008 EU_{64}	16.5	X	37.34199	109.09398	188.61647	16.37810	0.1004031	0.17844183	3.1246756	21	9 20.9	20.7
441378 2008 EG_{78}	16.9	X	5.87903	327.17934	104.98535	3.22657	0.0588934	0.20095894	2.8866745	21	—	—
441379 2008 EJ_{92}	16.1	X	151.27793	177.94743	27.17193	14.57526	0.2724849	0.18410032	3.0603165	21	10 13.6	21.5
441380 2008 EE_{94}	15.9	X	46.94658	347.32166	18.64273	9.38920	0.0810015	0.19991775	2.8966886	21	12 30.0	20.1
441381 2008 EL_{97}	15.9	X	84.14854	321.54184	325.81581	14.80323	0.0578378	0.18932718	3.0037289	21	10 27.1	20.5
441382 2008 EE_{119}	15.6	X	131.64174	298.38347	307.82242	10.85955	0.1032874	0.19034286	2.9930341	21	11 4.9	20.4
441383 2008 EB_{158}	16.5	X	80.56419	240.29828	6.96232	12.93888	0.1531918	0.17780180	3.1321697	21	9 23.1	20.9
441384 2008 ES_{168}	18.2	X	322.64561	113.11893	166.56278	7.82031	0.2402363	0.30185203	2.2009321	21	3 25.7	20.6
441385 2008 FU	15.5	X	38.53472	317.35933	341.37419	15.77894	0.0799226	0.18140445	3.0905618	21	9 19.2	19.7
441386 2008 FD_{13}	16.6	X	113.94556	49.38757	183.41935	17.11432	0.2051549	0.17894769	3.1187841	21	10 14.3	21.7
441387 2008 FT_{17}	16.5	X	23.17818	234.95764	123.25691	3.09164	0.0213522	0.19151898	2.9807680	21	11 11.4	20.6
441388 2008 FD_{22}	16.6	X	103.69934	76.81016	134.98394	8.03531	0.0845960	0.17214015	3.2004762	21	8 27.4	21.2
441389 2008 FJ_{24}	16.0	X	275.14023	296.27273	174.59420	15.28698	0.0367281	0.18809884	3.0167916	21	11 11.6	20.4
441390 2008 FK_{24}	16.3	X	31.87570	188.04181	89.32094	6.92509	0.0973414	0.16891840	3.2410426	21	8 19.7	20.5
441391 2008 FD_{30}	16.5	X	27.03069	357.35601	337.14397	10.51877	0.0164900	0.18838552	3.0137302	21	10 11.3	20.9
441392 2008 FQ_{38}	18.3	X	320.15602	220.65386	75.09682	4.60514	0.1915873	0.30473692	2.1870196	21	4 24.2	20.5
441393 2008 FU_{44}	16.2	X	248.78641	108.40972	359.08410	14.56955	0.1050986	0.18813328	3.0164234	21	9 22.6	20.6
441394 2008 FR_{53}	16.5	X	93.18985	185.88835	38.05714	5.69556	0.1236129	0.17186682	3.2038686	21	9 5.8	21.2
441395 2008 FT_{55}	16.5	X	66.34189	245.66463	23.64280	4.60855	0.1316178	0.17405285	3.1769859	21	9 29.8	20.9
441396 2008 FT_{59}	17.0	X	107.21754	136.80009	60.38015	4.02930	0.1940575	0.17087366	3.2162710	21	8 25.9	22.0
441397 2008 FS_{85}	16.5	X	54.90095	92.59250	173.27600	11.53170	0.1864851	0.17327564	3.1864789	21	9 18.1	20.7
441398 2008 FX_{93}	16.2	X	272.20911	31.06478	56.04758	10.83980	0.0472502	0.18116255	3.0933123	21	10 8.5	20.6
441399 2008 FA_{102}	18.8	X	328.55055	98.41102	133.94104	4.79404	0.1858598	0.29441534	2.2378403	21	2 3.9	21.5
441400 2008 FQ_{102}	18.2	X	9.05177	107.10544	110.22500	4.93988	0.1084361	0.30067317	2.2066812	21	4 7.3	20.1
441401 2008 FT_{110}	18.2	X	304.53302	262.04610	14.87050	3.27896	0.1680535	0.29659948	2.2268406	21	3 8.9	20.8
441402 2008 FO_{112}	16.2	X	65.99841	84.12045	172.28452	9.23688	0.0209856	0.17377553	3.1803650	21	8 26.2	20.6
441403 2008 FG_{128}	18.6	X	58.20882	167.46267	37.36818	4.90552	0.0764095	0.30919911	2.1659274	21	6 15.1	20.6
441404 2008 FJ_{129}	16.5	X	130.79678	124.52102	98.07747	8.07484	0.0785673	0.17877217	3.1208252	21	10 12.3	21.3
441405 2008 FJ_{130}	16.5	X	340.91522	183.84692	204.70140	17.33924	0.0162608	0.18094222	3.0958229	21	10 23.3	20.6
441406 2008 FS_{136}	17.7	X	347.19959	223.68254	29.70534	7.08360	0.1424336	0.30298616	2.1954364	21	4 14.9	19.6
441407 2008 FV_{137}	15.7	X	89.67534	100.08967	135.26965	16.80529	0.1881023	0.17267202	3.1939007	21	9 25.7	20.7
441408 2008 GA	15.9	X	59.42863	115.65340	202.43367	25.49702	0.2377199	0.17815324	3.1280492	21	12 3.3	20.9
441409 2008 GY_{1}	15.8	X	177.66447	330.17617	211.06579	14.78306	0.2995328	0.18460616	3.0547236	21	9 30.6	21.5
441410 2008 GT_{11}	17.6	X	38.44119	338.19980	196.93571	3.80446	0.1260833	0.29859195	2.2169232	21	3 26.5	19.4
441411 2008 GP_{17}	18.6	X	33.25658	150.49270	80.66422	5.62778	0.0290613	0.31095961	2.1577447	21	6 8.6	20.6
441412 2008 GH_{24}	16.4	X	52.53257	96.75760	183.64979	18.31262	0.1408352	0.17401316	3.1774689	21	9 26.3	20.6
441413 2008 GH_{26}	16.7	X	199.70334	120.16173	41.36624	6.73344	0.1399471	0.18548029	3.0451186	21	10 4.9	21.5
441414 2008 GU_{36}	15.7	X	294.74511	136.78908	177.65589	10.07371	0.0774536	0.15395730	3.4477507	21	5 15.3	20.6
441415 2008 GQ_{38}	18.2	X	339.25174	133.96051	149.19893	3.02627	0.1929107	0.30283224	2.1961802	21	5 10.9	19.7
441416 2008 GK_{46}	18.4	X	300.77809	140.17407	84.74900	6.87178	0.1477966	0.28706351	2.2758871	21	—	—
441417 2008 GL_{47}	15.8	X	70.18672	198.20850	89.42392	11.94131	0.0771356	0.17446157	3.1720220	21	10 24.0	20.5
441418 2008 GG_{50}	16.2	X	41.97730	288.16809	20.69636	15.82770	0.0626003	0.17974909	3.1095073	21	10 8.8	20.4
441419 2008 GS_{50}	16.4	X	175.42100	144.70204	31.01860	6.17975	0.0289192	0.18146229	3.0899049	21	9 30.9	20.9
441420 2008 GZ_{54}	18.2	X	94.21523	303.55721	164.03491	3.98053	0.0556528	0.29966946	2.2116058	21	3 14.9	20.6
441421 2008 GL_{60}	18.5	X	310.75406	210.93559	93.80955	4.53974	0.0970137	0.30942072	2.1648931	21	5 8.9	20.6
441422 2008 GN_{62}	15.2	X	102.22827	239.98310	21.06821	16.94270	0.0919758	0.18028015	3.1033978	21	10 23.5	19.8
441423 2008 GV_{62}	15.6	X	41.50938	264.37569	37.10366	18.22195	0.0922411	0.17260051	3.1947828	21	10 6.9	20.0
441424 2008 GE_{84}	16.5	X	212.05625	39.27853	94.93332	6.21711	0.0904401	0.17884969	3.1199234	21	9 18.5	21.2
441425 2008 GD_{89}	18.6	X	344.74951	88.65384	164.17408	1.99718	0.1776145	0.30194604	2.2004752	21	4 3.5	20.4
441426 2008 GV_{96}	15.9	X	35.40439	281.30535	27.55815	11.38323	0.1294439	0.17824615	3.1269621	21	10 9.0	19.9
441427 2008 GT_{99}	16.1	X	52.44658	252.06159	48.88290	11.74604	0.0732285	0.17633192	3.1495518	21	10 15.9	20.4
441428 2008 GJ_{100}	18.1	X	326.76185	178.32709	66.84158	2.38525	0.1872099	0.29621230	2.2287806	21	2 20.1	20.5
441429 2008 GC_{127}	15.7	X	88.66540	130.84844	101.96327	13.70350	0.0665723	0.16898272	3.2402201	21	9 6.4	20.5
441430 2008 GT_{132}	16.2	X	103.10260	69.95089	174.34869	15.09653	0.0539777	0.17392376	3.1785577	21	10 2.6	20.9
441431 2008 GC_{138}	15.9	X	196.58097	90.49744	65.57373	16.80542	0.0752282	0.17623587	3.1506960	21	10 5.4	20.9
441432 2008 GG_{139}	16.3	X	93.27309	85.66303	166.54285	11.55727	0.0295497	0.17669465	3.1452400	21	9 28.0	20.7
441433 2008 HN	18.8	X	354.82327	27.78759	223.19571	2.39337	0.1580382	0.30446823	2.1883060	21	4 24.1	20.4
441434 2008 HE_{4}	16.3	X	172.29968	110.42454	70.57216	17.69744	0.1821932	0.18214762	3.0821496	21	10 9.2	21.7
441435 2008 HE_{8}	16.8	X	127.65056	66.50135	124.31354	9.98181	0.0731459	0.17102411	3.2143845	21	8 27.9	21.6
441436 2008 HG_{9}	16.2	X	140.93327	86.44239	120.00814	10.68164	0.1750609	0.17751727	3.1355157	21	10 7.8	21.5
441437 2008 HM_{15}	15.5	X	10.01116	278.59789	76.03360	17.08005	0.1216495	0.17516156	3.1635656	21	11 1.5	19.6
441438 2008 HP_{17}	18.1	X	0.07073	146.01976	106.99384	6.85918	0.1274378	0.30460093	2.1876705	21	5 15.8	19.9
441439 2008 HL_{21}	16.5	X	168.35674	19.97342	185.18548	8.98606	0.0252961	0.18319180	3.0704265	21	10 29.1	20.9
441440 2008 HU_{21}	16.0	X	89.01781	60.93875	225.52397	11.63700	0.1660282	0.17702202	3.1413611	21	11 18.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441441 2008 HG_{24}	16.0	X	87.51163	181.68603	141.32393	10.50664	0.0979449	0.18697618	3.0288553	21	12 24.1	20.6
441442 2008 HW_{43}	18.3	X	324.45450	237.93905	71.75978	2.83683	0.1305979	0.30824400	2.1703992	21	6 2.9	20.2
441443 2008 HH_{46}	18.1	X	306.73106	226.10707	67.26346	6.32637	0.2430977	0.29712335	2.2242223	21	3 25.8	21.0
441444 2008 HX_{48}	16.3	X	59.95040	229.95885	41.05038	11.73928	0.1108652	0.17455137	3.1709340	21	9 25.1	20.8
441445 2008 HY_{54}	18.2	X	49.00410	80.96200	97.12975	4.08538	0.1832285	0.30164230	2.2019522	21	5 2.5	19.7
441446 2008 HS_{57}	16.3	X	157.69172	82.57843	119.69681	11.74047	0.0546553	0.17881387	3.1203400	21	10 16.8	21.1
441447 2008 HM_{67}	18.4	X	88.98063	92.34014	72.24791	5.23723	0.0658714	0.30570317	2.1824087	21	6 1.4	20.7
441448 2008 HF_{68}	17.4	X	279.17777	249.67865	73.14518	6.04868	0.1877535	0.29614307	2.2291280	21	4 9.5	20.4
441449 2008 JJ_{9}	15.6	X	355.17572	243.61164	102.61340	13.27604	0.0685570	0.17267567	3.1938557	21	9 25.4	20.0
441450 2008 KY_{4}	18.6	X	313.08546	117.96347	145.82465	6.46315	0.1162555	0.29433654	2.2382397	21	3 11.0	21.1
441451 2008 KK_{9}	18.5	X	230.52363	210.21215	112.65796	2.39485	0.2280169	0.28592400	2.2819299	21	2 19.8	22.3
441452 2008 KV_{33}	15.9	X	61.73649	144.59620	193.93173	16.31133	0.2405677	0.17718072	3.1394849	21	12 28.4	20.9
441453 2008 MO_{3}	18.5	X	222.12357	92.27362	263.72684	2.49267	0.2364348	0.28200085	2.3030451	21	3 23.9	22.5
441454 2008 OS_{2}	17.8	X	255.23567	56.69618	296.35834	4.23825	0.2229642	0.28883213	2.2665870	21	4 16.8	21.3
441455 2008 OO_{3}	17.0	X	207.43799	50.35266	308.44425	24.20449	0.2757513	0.27731942	2.3288912	21	3 5.6	21.6
441456 2008 OT_{3}	18.1	X	261.85558	129.89034	171.32542	6.63040	0.2394015	0.28225270	2.3016749	21	2 16.9	21.8
441457 2008 OE_{22}	18.2	X	238.63251	345.76739	335.03060	6.89464	0.1370844	0.27828633	2.3234936	21	2 26.9	21.5
441458 2008 PN_{2}	17.7	X	253.54601	57.26544	287.06753	5.57732	0.2131639	0.28736211	2.2743103	21	4 3.9	21.4
441459 2008 PF_{11}	18.0	X	254.23199	212.53194	117.30433	2.24328	0.2189584	0.28495916	2.2870780	21	3 20.9	21.5
441460 2008 PN_{14}	17.8	X	186.73541	174.51001	155.26622	3.33222	0.1885740	0.26902627	2.3765097	21	1 23.3	21.6
441461 2008 PA_{19}	18.0	X	243.70537	144.77360	212.06454	1.29279	0.2235645	0.28472503	2.2883315	21	4 13.5	21.7
441462 2008 PD_{22}	18.7	X	179.69416	230.79551	142.85452	1.79226	0.1877701	0.27354722	2.3502524	21	3 12.4	22.4
441463 2008 QQ_{5}	17.9	X	235.11269	151.41251	153.65554	2.35756	0.2019576	0.27315495	2.3525020	21	2 3.0	21.8
441464 2008 QE_{21}	17.6	X	210.74419	115.36090	238.50500	6.20475	0.1586152	0.27772738	2.3266100	21	3 11.2	21.3
441465 2008 QU_{23}	18.2	X	207.24334	1.09356	333.16976	0.79273	0.2018486	0.27364592	2.3496873	21	2 15.7	21.8
441466 2008 QD_{34}	17.6	X	121.21344	197.20882	172.53558	2.63950	0.1883178	0.25844040	2.4409701	21	1 6.3	20.5
441467 2008 QE_{36}	18.1	X	250.61130	174.33205	160.67086	3.43322	0.1948906	0.28238796	2.3009398	21	3 25.8	21.7
441468 2008 RS_{1}	18.1	X	226.58118	147.08512	164.76922	2.44373	0.1837503	0.27263753	2.3554775	21	2 4.3	22.0
441469 2008 RL_{58}	18.3	X	199.44701	54.46728	321.74525	3.90542	0.2367013	0.27540293	2.3396830	21	3 31.3	22.3
441470 2008 RC_{70}	18.4	X	231.17361	32.81564	317.62724	2.95077	0.1716986	0.28047190	2.3114073	21	3 26.8	22.2
441471 2008 RS_{73}	17.2	X	204.63787	81.20368	345.38079	22.53114	0.2310458	0.28590102	2.2820522	21	6 4.9	21.6
441472 2008 RV_{86}	17.4	X	245.46455	55.02224	263.71716	5.10548	0.1298066	0.27587688	2.3370025	21	3 1.5	20.9
441473 2008 RJ_{94}	18.0	X	181.98056	195.81217	183.24785	2.48448	0.2087312	0.26927432	2.3750500	21	3 21.9	21.8
441474 2008 RD_{106}	17.6	X	250.62039	323.87247	355.71380	6.62854	0.2053070	0.27752504	2.3277407	21	3 6.2	21.4
441475 2008 RY_{114}	17.8	X	253.83132	200.91712	130.37734	0.47473	0.2253815	0.27841017	2.3228045	21	3 21.8	21.5
441476 2008 RK_{118}	17.0	X	274.31827	237.46126	4.71097	7.14567	0.0817726	0.26221546	2.4174854	21	1 3.5	20.5
441477 2008 RQ_{119}	18.4	X	227.44473	313.23422	21.66210	1.58510	0.2030473	0.27580989	2.3373809	21	3 5.4	22.3
441478 2008 RP_{128}	17.1	X	334.28178	211.21854	316.80271	5.64842	0.0933130	0.26530369	2.3986885	21	—	—
441479 2008 RD_{129}	16.7	X	221.39626	42.75722	260.11475	6.05369	0.1482995	0.25740107	2.4475363	21	1 21.2	20.6
441480 2008 RQ_{131}	17.6	X	191.04850	182.82481	224.43261	4.89317	0.1464867	0.28047433	2.3113939	21	5 2.6	21.1
441481 2008 RB_{142}	18.3	X	211.29829	37.18925	298.18898	3.92168	0.1698147	0.27270605	2.3550829	21	2 19.1	22.0
441482 2008 SJ_{6}	17.7	X	219.61420	185.07744	127.33102	3.29431	0.1777176	0.27041199	2.3683838	21	1 30.7	21.5
441483 2008 SB_{15}	17.9	X	179.36155	214.83523	179.49819	5.55528	0.2167552	0.27706629	2.3303094	21	4 8.3	21.6
441484 2008 SG_{26}	18.1	X	238.97989	190.54282	134.03244	2.64797	0.2111869	0.27713872	2.3299034	21	3 2.0	21.9
441485 2008 SL_{32}	17.6	X	259.70878	337.84548	305.81128	4.94997	0.2160949	0.27406966	2.3472647	21	1 28.0	21.3
441486 2008 SS_{46}	17.8	X	221.64362	286.56729	29.75583	4.37605	0.2203766	0.27022802	2.3694587	21	2 7.8	21.8
441487 2008 SX_{49}	18.3	X	218.32557	132.92295	217.29265	0.73449	0.1586313	0.27615986	2.3354058	21	3 16.4	22.0
441488 2008 SA_{58}	17.5	X	260.23306	274.63396	36.07995	4.92192	0.1968665	0.27636122	2.3342712	21	3 5.9	21.2
441489 2008 ST_{58}	17.8	X	243.96270	218.87301	116.24657	1.82581	0.2354338	0.27805594	2.3247768	21	3 18.3	21.5
441490 2008 SB_{63}	17.6	X	179.19463	354.40347	333.85406	2.26606	0.2241980	0.26471101	2.4022676	21	1 18.6	21.4
441491 2008 SL_{71}	17.4	X	100.67383	35.46150	27.26081	6.53984	0.1006589	0.26116360	2.4239721	21	2 6.3	20.3
441492 2008 SQ_{71}	17.6	X	254.33606	218.35687	62.70689	2.94687	0.2101518	0.26998133	2.3709018	21	1 22.0	21.5
441493 2008 SN_{72}	18.1	X	214.49247	140.89559	233.42798	3.14680	0.1804493	0.27659151	2.3329754	21	4 11.5	21.8
441494 2008 SE_{77}	18.0	X	196.74228	32.13957	331.31631	2.30572	0.2035505	0.27355086	2.3502316	21	3 14.1	21.9
441495 2008 SF_{81}	18.1	X	195.28809	251.82705	131.91902	4.71566	0.2494796	0.27438697	2.3454547	21	4 10.3	22.1
441496 2008 SF_{89}	18.2	X	250.19786	4.76116	301.09102	1.80594	0.2163740	0.27919762	2.3184349	21	2 15.1	21.8
441497 2008 SA_{90}	17.1	X	208.54360	151.78178	207.45524	7.25963	0.2087548	0.27461118	2.3441779	21	3 17.6	20.9
441498 2008 SN_{97}	18.0	X	188.49396	120.02321	222.63987	3.46106	0.1748317	0.26685103	2.3894069	21	2 8.3	21.8
441499 2008 SQ_{97}	17.7	X	158.43406	47.68375	0.51983	6.01483	0.0561444	0.27140301	2.3626149	21	3 23.9	20.8
441500 2008 SR_{98}	18.0	X	210.82334	243.35193	99.27270	3.00374	0.2299900	0.27192573	2.3595862	21	3 2.4	22.0
441501 2008 SY_{99}	17.8	X	163.31548	243.07325	131.05738	3.24947	0.2075897	0.26609206	2.3939484	21	2 28.6	21.4
441502 2008 SV_{111}	18.3	X	244.20613	156.32151	131.42060	2.26732	0.1789637	0.27277616	2.3546794	21	1 21.5	22.0
441503 2008 SH_{117}	17.7	X	217.49570	18.49525	336.85695	1.11848	0.2055486	0.27511732	2.3413020	21	3 21.6	21.5
441504 2008 SS_{125}	18.2	X	150.32609	158.76779	278.04324	0.71768	0.1586100	0.27266688	2.3553085	21	5 1.5	21.6
441505 2008 SG_{126}	17.5	X	185.32712	4.79106	8.24848	2.90927	0.1837615	0.27053825	2.3676469	21	3 16.7	21.4
441506 2008 SW_{126}	17.6	X	176.27229	182.26696	220.19515	2.90487	0.1514613	0.27325417	2.3519325	21	4 12.1	21.2
441507 2008 SG_{129}	17.8	X	206.62797	4.08270	0.54109	4.52180	0.0403564	0.27158775	2.3615434	21	3 23.9	20.9
441508 2008 SL_{131}	18.3	X	148.19499	48.97649	357.63514	3.57641	0.1827045	0.26686383	2.3893306	21	3 23.7	21.8
441509 2008 SO_{136}	15.3	X	182.34364	92.56702	333.30361	7.70134	0.1463317	0.12472746	3.9672966	21	5 23.3	21.7
441510 2008 SY_{139}	18.0	X	185.77136	69.98404	299.47385	2.65399	0.2317112	0.27206007	2.3588094	21	3 12.8	22.0
441511 2008 SZ_{139}	17.3	X	237.03424	339.92442	325.06947	4.30299	0.2253147	0.27392827	2.3480724	21	2 4.4	21.3
441512 2008 SZ_{141}	17.9	X	239.63823	193.60950	127.05210	2.06711	0.1991093	0.27301772	2.3532902	21	2 26.6	21.5
441513 2008 SH_{146}	17.8	X	200.32874	109.75242	283.58210	4.47320	0.1467843	0.27890131	2.3200767	21	4 21.7	21.4
441514 2008 SP_{149}	18.0	X	207.01518	78.44284	284.12274	3.73681	0.1949971	0.27601470	2.3362245	21	3 19.9	21.8
441515 2008 SJ_{152}	18.2	X	219.08018	85.41664	268.00481	3.26232	0.2340571	0.27599915	2.3363122	21	3 18.5	22.1
441516 2008 SR_{159}	18.0	X	241.06186	130.39351	186.31691	5.99003	0.2674252	0.27671949	2.3322560	21	2 18.3	22.1
441517 2008 SB_{160}	18.1	X	222.96863	50.28126	295.46309	0.43413	0.2020123	0.27582889	2.3372736	21	3 14.3	22.0
441518 2008 SM_{164}	17.6	X	198.27036	221.97868	129.17730	2.12884	0.2025069	0.27131998	2.3630969	21	3 1.5	21.4
441519 2008 SC_{168}	17.2	X	234.31360	115.47671	199.74501	21.71638	0.2801756	0.27294821	2.3536897	21	2 8.3	21.8
441520 2008 SE_{175}	18.1	X	120.64824	131.11858	285.44928	3.58113	0.1870859	0.26506188	2.4001471	21	3 5.4	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441521 2008 SF_{181}	18.4	X	240.14239	126.28815	180.06780	2.49050	0.2227919	0.27204564	2.3588928	21	2 7.9	22.3
441522 2008 SX_{181}	18.1	X	178.38584	196.83284	141.78054	2.08292	0.1518009	0.26194447	2.4191524	21	1 25.3	21.8
441523 2008 SC_{183}	17.8	X	152.53175	182.49909	180.28349	4.34304	0.0919127	0.25938349	2.4350497	21	1 21.5	21.1
441524 2008 SP_{185}	16.5	X	228.74105	194.56088	148.11286	27.27871	0.2128281	0.27638996	2.3341094	21	3 18.5	20.6
441525 2008 SK_{220}	15.3	X	234.48012	195.66635	205.91287	8.21985	0.2420402	0.13157985	3.8283338	21	6 5.7	21.5
441526 2008 SQ_{221}	18.2	X	184.93121	45.69450	345.21096	2.27483	0.1841148	0.27578071	2.3375458	21	4 6.3	21.7
441527 2008 SV_{242}	18.3	X	156.29697	194.17132	141.13050	1.88439	0.2015195	0.25784086	2.4447524	21	1 4.9	22.0
441528 2008 SC_{243}	17.7	X	200.72645	201.81195	168.39808	2.05734	0.2247314	0.27291605	2.3538747	21	3 26.9	21.8
441529 2008 SQ_{256}	18.3	X	180.56126	32.45234	290.65079	1.67673	0.2158776	0.26409412	2.4060070	21	1 12.8	22.2
441530 2008 SD_{258}	17.5	X	256.49251	58.24436	234.76724	3.70549	0.1496911	0.27018570	2.3697061	21	2 8.6	21.1
441531 2008 SH_{282}	18.0	X	218.18975	272.21592	61.41433	9.17831	0.3211879	0.27012391	2.3700674	21	2 28.3	22.5
441532 2008 SU_{283}	17.4	X	207.99095	93.75412	225.83122	7.23588	0.1275829	0.26638045	2.3922202	21	1 26.3	21.1
441533 2008 SV_{283}	16.8	X	221.54719	239.03947	288.80810	4.17616	0.1484269	0.23034101	2.6356549	21	11 4.0	20.6
441534 2008 SP_{286}	18.4	X	227.10492	56.21189	253.03838	2.12180	0.2143223	0.26891049	2.3771918	21	2 1.5	22.4
441535 2008 SA_{300}	17.6	X	232.54541	101.68886	203.93907	9.74364	0.2714649	0.27184209	2.3600701	21	1 29.2	22.0
441536 2008 SG_{307}	17.8	X	119.46718	282.03626	68.57058	5.32555	0.2178135	0.25299101	2.4758975	21	—	—
441537 2008 SX_{307}	17.8	X	210.83768	239.86210	65.69944	2.18128	0.1863617	0.26366164	2.4086373	21	1 16.4	21.6
441538 2008 SA_{308}	17.7	X	202.68556	174.02588	163.90109	3.06488	0.2174786	0.26808029	2.3820971	21	2 16.9	21.6
441539 2008 SP_{309}	17.8	X	114.27370	356.04080	47.99208	2.31960	0.1840279	0.25736353	2.4477744	21	2 12.4	20.9
441540 2008 TF_{5}	17.7	X	228.01749	280.27383	25.72605	2.62202	0.2205163	0.27086100	2.3657657	21	1 30.6	21.6
441541 2008 TJ_{9}	18.2	X	174.79651	355.10761	30.32825	2.77877	0.2145330	0.27028964	2.3690985	21	3 24.7	22.1
441542 2008 TP_{17}	18.5	X	169.97936	33.26136	10.76259	2.84980	0.1805414	0.27048884	2.3679352	21	4 9.9	22.1
441543 2008 TC_{20}	17.6	X	128.62077	175.94254	213.25927	6.40618	0.1375897	0.25910194	2.4368134	21	1 31.7	20.9
441544 2008 TK_{22}	17.5	X	222.39246	286.21228	49.74649	7.75770	0.1333790	0.27045989	2.3681042	21	3 7.6	21.2
441545 2008 TV_{35}	18.2	X	141.69253	35.96126	355.88328	3.23013	0.1309404	0.26585741	2.3953567	21	2 20.8	21.4
441546 2008 TH_{43}	17.8	X	204.19741	39.12084	337.77704	9.78054	0.2395055	0.27568592	2.3380816	21	4 2.8	22.0
441547 2008 TY_{47}	17.3	X	199.46753	185.67304	178.35389	7.09759	0.1630143	0.27080155	2.3661119	21	3 17.1	20.8
441548 2008 TD_{67}	15.1	X	222.11450	345.97956	55.50712	5.97465	0.2719908	0.12661994	3.9276670	21	5 24.9	21.7
441549 2008 TM_{68}	17.5	X	236.75910	202.81958	126.81036	1.95942	0.1896702	0.27400806	2.3476165	21	3 7.6	21.1
441550 2008 TT_{69}	15.4	X	185.53441	300.12130	131.08358	3.53955	0.1105650	0.12428352	3.9767384	21	6 3.6	21.5
441551 2008 TC_{77}	17.9	X	171.79742	204.28789	170.18721	2.04920	0.1376570	0.26910216	2.3760629	21	3 2.6	21.4
441552 2008 TR_{83}	18.0	X	150.33458	49.59980	333.36123	2.81794	0.1349443	0.26535559	2.3983757	21	2 19.1	21.3
441553 2008 TC_{91}	17.6	X	194.29726	298.44409	50.29648	7.30531	0.1363283	0.26652219	2.3913720	21	2 24.6	21.4
441554 2008 TS_{120}	18.0	X	197.81140	268.08822	105.27235	4.22768	0.2300923	0.27423737	2.3463076	21	3 30.3	21.9
441555 2008 TP_{125}	17.3	X	230.69760	348.98607	354.61736	6.46448	0.1152913	0.27577922	2.3375542	21	3 21.2	20.6
441556 2008 TD_{136}	18.0	X	127.04117	197.92758	235.73699	2.23722	0.1680441	0.26671592	2.3902138	21	4 2.8	21.3
441557 2008 TO_{138}	16.7	X	237.06417	4.51530	231.44379	8.36067	0.0944951	0.25162335	2.4848609	21	—	—
441558 2008 TW_{157}	17.4	X	197.98684	60.55970	257.04008	13.67951	0.2357902	0.26681986	2.3895931	21	1 17.8	21.6
441559 2008 TF_{167}	17.6	X	217.73079	20.61757	282.47809	4.04040	0.1776905	0.26532085	2.3985851	21	1 18.2	21.4
441560 2008 TP_{176}	18.3	X	116.83404	23.83113	28.19153	0.79965	0.1986668	0.26172022	2.4205340	21	2 26.9	21.2
441561 2008 TM_{177}	17.6	X	152.86573	246.19565	153.82797	12.21526	0.2479046	0.26662999	2.3907274	21	3 28.4	21.5
441562 2008 TD_{188}	17.3	X	22.99396	217.25607	213.00608	14.37857	0.0839108	0.24519547	2.5281010	21	—	—
441563 Domanski	15.1	X	220.36714	236.94432	154.80941	2.78528	0.2319941	0.12355798	3.9922909	21	5 15.5	21.7
441564 2008 UN_{7}	15.7	X	209.73738	188.79924	237.36766	6.31347	0.3330838	0.12514169	3.9585370	21	6 11.6	22.6
441565 2008 UJ_{23}	18.2	X	230.90317	106.32512	198.97669	1.68089	0.2141983	0.27122497	2.3636487	21	1 30.7	22.1
441566 2008 UR_{24}	18.2	X	115.67281	299.51963	147.28611	1.28461	0.1529037	0.26627322	2.3928624	21	4 5.9	21.4
441567 2008 UJ_{30}	17.2	X	192.36666	319.09226	51.16553	7.99062	0.1208793	0.26908128	2.3761858	21	3 21.3	20.8
441568 2008 UT_{31}	17.5	X	228.35519	211.87758	82.35509	3.57134	0.1985397	0.26401861	2.4064658	21	1 17.4	21.4
441569 2008 UJ_{33}	17.2	X	70.49087	38.09894	61.22361	7.78114	0.0702061	0.25915491	2.4364813	21	2 7.4	20.1
441570 2008 UJ_{36}	17.4	X	187.72013	321.90746	28.94294	6.76023	0.1335312	0.26437847	2.4042816	21	2 20.3	21.1
441571 2008 UX_{41}	17.8	X	166.25021	302.75386	39.96512	5.61494	0.1259451	0.25755730	2.4465465	21	1 18.0	21.3
441572 2008 UJ_{42}	18.2	X	183.41770	300.81379	42.30547	3.02690	0.1972710	0.26272080	2.4143844	21	2 8.7	22.0
441573 2008 UP_{43}	18.0	X	231.12940	130.57912	218.80857	1.73428	0.2285953	0.27768766	2.3268318	21	3 24.4	21.9
441574 2008 UG_{46}	18.2	X	126.09720	106.88874	321.12218	2.41909	0.1657608	0.26291598	2.4131893	21	3 25.1	21.6
441575 2008 UD_{48}	18.0	X	251.68133	49.96458	231.80356	1.72652	0.1465851	0.26753997	2.3853032	21	1 22.7	21.7
441576 2008 UH_{54}	17.9	X	195.05373	145.07167	219.91563	3.59738	0.1231450	0.26640714	2.3920604	21	3 12.4	21.5
441577 2008 UU_{57}	17.7	X	242.32545	218.37651	120.67871	2.73120	0.2199549	0.27676645	2.3319922	21	3 23.1	21.5
441578 2008 UN_{65}	16.7	X	354.76648	182.06586	242.70494	12.35001	0.1407266	0.23487172	2.6016502	21	—	—
441579 2008 UB_{74}	17.7	X	168.26521	143.79979	267.12392	4.62343	0.2188670	0.26975808	2.3722097	21	4 17.7	21.6
441580 2008 UH_{80}	17.7	X	214.02019	143.96030	262.05354	7.16319	0.1033436	0.28000438	2.3139795	21	5 25.7	21.1
441581 2008 UU_{83}	16.4	X	56.17063	166.26472	227.66781	11.63992	0.1721811	0.24129587	2.5552660	21	—	—
441582 2008 UW_{94}	17.8	X	172.94831	359.35621	57.48021	5.86148	0.1149295	0.27615783	2.3354172	21	4 27.0	21.0
441583 2008 UM_{96}	17.3	X	129.45111	0.27639	79.32468	7.72760	0.0960511	0.26943366	2.3741135	21	4 8.7	20.5
441584 2008 US_{97}	16.8	X	87.92129	2.44627	65.05036	7.67248	0.1086684	0.25695181	2.4503884	21	1 25.6	19.7
441585 2008 UO_{98}	16.6	X	19.71634	246.12888	167.62953	5.13560	0.3174340	0.23788446	2.5796374	21	—	—
441586 2008 UW_{98}	16.9	X	170.41090	307.01208	72.48959	9.33543	0.2401604	0.26578163	2.3958120	21	3 19.9	21.0
441587 2008 UL_{113}	17.6	X	236.36932	7.09560	293.29108	2.32487	0.1447360	0.26614292	2.3936433	21	1 31.7	21.3
441588 2008 UA_{114}	18.0	X	215.89786	327.22667	359.20822	2.76692	0.1893043	0.26797638	2.3827128	21	2 14.6	22.0
441589 2008 UT_{114}	17.8	X	228.62856	336.62932	335.22771	5.19600	0.1770318	0.26707487	2.3880717	21	2 7.9	21.5
441590 2008 UK_{119}	17.7	X	213.52982	344.81428	357.94974	3.94916	0.2470526	0.27081656	2.3660245	21	3 4.0	21.8
441591 2008 UT_{122}	17.9	X	137.74772	61.42245	319.72455	4.74696	0.1349072	0.25844841	2.4409196	21	2 3.6	21.2
441592 2008 UC_{128}	16.9	X	99.36510	251.97439	64.73695	16.66469	0.0447378	0.23325337	2.6136701	21	—	—
441593 2008 UA_{157}	17.4	X	48.84881	299.39042	82.24716	0.96262	0.1032311	0.23851448	2.5750928	21	—	—
441594 2008 UA_{167}	17.1	X	30.37569	210.41041	216.97067	15.82962	0.1211367	0.24376131	2.5380073	21	—	—
441595 2008 UH_{176}	17.8	X	225.24610	305.05917	4.02694	2.46779	0.1901450	0.26748388	2.3856367	21	2 1.5	21.7
441596 2008 UL_{178}	17.3	X	255.69182	13.06395	241.45148	5.92758	0.0877268	0.25929091	2.4356293	21	—	—
441597 2008 UC_{180}	15.7	X	229.06557	121.79981	280.04994	2.83064	0.2156476	0.12577823	3.9451702	21	6 2.8	22.1
441598 2008 UJ_{186}	17.4	X	239.48827	288.80772	60.77589	5.62810	0.2537041	0.27603291	2.3361217	21	4 2.4	21.4
441599 2008 UW_{195}	18.0	X	212.26632	312.58620	59.61615	3.78515	0.1929464	0.27259123	2.3557442	21	4 9.1	21.7
441600 2008 UC_{201}	17.7	X	261.76903	57.44750	276.82448	4.88243	0.2838124	0.28174402	2.3044444	21	3 24.9	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441601 2008 UC_{208}	17.5	X	203.95734	284.54816	25.44939	6.57095	0.1422412	0.26122846	2.4235709	21	1 15.8	21.4
441602 2008 UK_{213}	17.7	X	164.50985	79.17815	289.77188	3.65437	0.2011215	0.26596373	2.3947184	21	2 20.8	21.4
441603 2008 UD_{219}	17.7	X	183.45406	13.74267	359.32032	1.96669	0.2225415	0.26892714	2.3770937	21	3 16.5	21.7
441604 2008 UR_{232}	17.8	X	217.25581	338.46106	5.71700	2.09237	0.2422295	0.27282043	2.3544246	21	3 8.2	21.7
441605 2008 UT_{234}	17.5	X	224.43598	86.29251	235.89920	6.64407	0.0290310	0.26809998	2.3819804	21	2 15.1	20.7
441606 2008 UV_{237}	17.4	X	154.17439	193.97620	255.65350	6.09749	0.0732728	0.27503441	2.3417724	21	5 15.4	20.7
441607 2008 UR_{239}	15.4	X	218.19780	117.01466	295.68689	7.73264	0.2307476	0.12530705	3.9550537	21	6 5.7	21.8
441608 2008 UQ_{271}	18.3	X	164.44082	41.97507	336.53143	1.72922	0.2130627	0.26507191	2.4000866	21	3 6.6	22.2
441609 2008 UF_{272}	17.3	X	254.33038	237.49056	33.24558	6.39722	0.1042237	0.26005951	2.4308280	21	1 17.1	20.9
441610 2008 UZ_{290}	17.9	X	195.85229	235.05278	172.15837	2.88553	0.2493091	0.27460943	2.3441879	21	5 8.6	21.8
441611 2008 UX_{292}	17.1	X	50.96100	228.16035	251.97380	5.80558	0.0682625	0.25933800	2.4353344	21	1 30.8	19.9
441612 2008 UL_{300}	17.6	X	154.56220	74.55641	301.51298	5.67669	0.1384492	0.26586863	2.3952893	21	2 13.9	21.1
441613 2008 UO_{300}	17.7	X	216.89260	208.57145	129.30508	6.01477	0.2533784	0.27273831	2.3548972	21	3 1.2	21.7
441614 2008 UF_{309}	17.3	X	112.68527	163.84015	296.00418	5.46583	0.0937531	0.26781233	2.3836857	21	4 7.0	20.3
441615 2008 US_{315}	18.1	X	173.61422	174.77558	230.11854	1.98798	0.1941022	0.26920406	2.3754632	21	4 15.1	22.0
441616 2008 UU_{315}	18.1	X	168.51836	272.69297	76.76170	2.38436	0.2010599	0.25890524	2.4380474	21	2 3.4	22.0
441617 2008 UB_{316}	18.1	X	158.04688	320.94564	63.35461	2.88682	0.2396427	0.26308842	2.4121347	21	3 11.9	21.9
441618 2008 UN_{320}	17.6	X	169.54624	52.63207	333.06918	5.46820	0.2679430	0.26788058	2.3832809	21	3 21.5	21.7
441619 2008 US_{342}	17.8	X	127.14729	38.26474	23.67251	4.93804	0.0932387	0.26098835	2.4250571	21	3 11.2	20.9
441620 2008 UQ_{345}	16.8	X	1.68467	0.24891	99.48496	15.02409	0.2022558	0.23439868	2.6051492	21	—	—
441621 2008 US_{365}	17.7	X	139.33178	271.76036	163.16874	5.67053	0.1974235	0.26923893	2.3752581	21	4 23.6	21.3
441622 2008 UP_{366}	17.7	X	238.35721	283.18073	65.73311	3.55032	0.2914949	0.27646516	2.3336861	21	3 29.2	21.7
441623 2008 US_{369}	17.6	X	194.02311	13.84187	291.74807	4.98097	0.1774128	0.25388595	2.4700757	21	1 2.8	21.5
441624 2008 VH_{1}	15.6	X	43.52416	125.68540	264.79133	27.18304	0.2353927	0.23593545	2.5938245	21	—	—
441625 2008 VP_{1}	17.4	X	124.11775	167.11051	248.48466	9.73957	0.2440516	0.26173044	2.4204710	21	3 13.1	21.1
441626 2008 VG_{5}	17.7	X	220.86826	86.02293	253.67447	9.33061	0.2598162	0.27218235	2.3581029	21	2 28.4	22.0
441627 2008 VD_{18}	17.4	X	186.78939	332.84494	61.23517	6.09119	0.2066687	0.27277806	2.3546684	21	4 15.5	21.3
441628 2008 VN_{18}	17.6	X	123.49064	9.38043	63.50227	6.08241	0.2088614	0.26447915	2.4036714	21	4 6.7	21.0
441629 2008 VJ_{33}	17.9	X	115.51497	302.47499	113.37445	3.66820	0.0794948	0.25957035	2.4338810	21	2 12.9	20.9
441630 2008 VA_{40}	18.1	X	193.35144	5.55154	334.15752	1.97725	0.2116929	0.26733422	2.3865270	21	2 11.9	22.0
441631 2008 VE_{51}	18.0	X	192.47083	335.80928	43.17960	3.37386	0.2060148	0.26954796	2.3734423	21	3 31.7	21.9
441632 2008 VS_{58}	17.7	X	214.74064	266.15850	42.32085	3.59053	0.2059275	0.26598092	2.3946152	21	1 23.7	21.7
441633 2008 VB_{68}	17.5	X	157.36852	310.17682	117.08804	23.56291	0.2645222	0.27066117	2.3669300	21	5 13.2	22.0
441634 2008 VT_{71}	16.9	X	56.63546	302.32529	80.62779	5.20887	0.2008089	0.23580511	2.5947802	21	—	—
441635 2008 VW_{72}	17.6	X	158.20883	335.84613	80.87899	5.37990	0.1653342	0.26858331	2.3791219	21	4 16.7	21.2
441636 2008 VY_{74}	17.6	X	108.18562	123.35208	314.78664	5.99975	0.1658283	0.26295231	2.4129670	21	3 14.6	20.7
441637 2008 VZ_{76}	17.8	X	122.17104	324.33222	107.37047	4.93436	0.1559113	0.26302047	2.4125502	21	3 27.7	21.0
441638 2008 VA_{78}	18.1	X	169.85858	293.96810	96.36818	3.94487	0.2349417	0.26631561	2.3926085	21	3 29.4	22.0
441639 2008 VC_{78}	18.0	X	148.95732	298.32163	98.66165	3.36465	0.1887389	0.26297291	2.4128410	21	3 15.2	21.6
441640 2008 WG_{13}	16.9	X	146.72449	295.78871	83.26775	12.97077	0.2402083	0.25952794	2.4341460	21	2 28.0	20.9
441641 2008 WZ_{13}	18.6	X	106.36924	133.72270	51.88884	8.17832	0.5608546	0.34903994	1.9978029	21	9 14.8	22.8
441642 2008 WF_{24}	17.7	X	164.27633	356.88679	21.30414	1.37759	0.1961087	0.26394394	2.4069196	21	3 5.6	21.5
441643 2008 WQ_{24}	17.9	X	170.57954	350.87716	46.86441	3.23452	0.2054060	0.26859934	2.3790273	21	4 5.3	21.8
441644 2008 WL_{27}	17.4	X	219.44171	72.12954	244.75042	6.73458	0.1018383	0.26308509	2.4121551	21	2 3.4	21.2
441645 2008 WZ_{28}	17.8	X	230.24523	145.22636	161.82484	2.21554	0.2242784	0.26618551	2.3933880	21	2 1.9	21.9
441646 2008 WO_{31}	17.0	X	122.85258	14.82309	308.27483	1.67798	0.1455625	0.24066082	2.5597592	21	—	—
441647 2008 WQ_{43}	17.9	X	149.06968	16.31434	35.63029	1.59288	0.1725444	0.26475900	2.4019773	21	3 31.3	21.4
441648 2008 WM_{44}	17.3	X	236.20713	199.99612	62.14707	7.59728	0.0750342	0.25074573	2.4906556	21	—	—
441649 2008 WY_{45}	17.8	X	114.42904	349.00507	55.31668	5.74974	0.1612787	0.25570717	2.4583334	21	2 11.3	20.9
441650 2008 WC_{66}	17.7	X	238.26666	175.80796	176.69229	2.15012	0.2378031	0.27751561	2.3277934	21	4 3.5	21.6
441651 2008 WZ_{68}	18.2	X	141.36521	222.92692	156.57719	2.03260	0.1932588	0.25772485	2.4454860	21	2 12.6	21.7
441652 2008 WB_{72}	18.0	X	225.60787	351.32533	12.18195	4.47021	0.2217863	0.27485520	2.3427903	21	4 7.1	21.7
441653 2008 WZ_{73}	17.6	X	169.86071	312.32847	81.41519	5.14655	0.2306823	0.26405640	2.4062362	21	4 3.1	21.6
441654 2008 WQ_{74}	17.9	X	161.25905	9.40108	37.18248	2.99468	0.1782749	0.26930761	2.3748543	21	4 5.8	21.6
441655 2008 WD_{80}	17.4	X	3.93656	21.98295	100.49084	7.24429	0.1541977	0.24445900	2.5331760	21	—	—
441656 2008 WZ_{87}	17.8	X	211.10531	214.76663	88.48549	2.89325	0.1894715	0.26073494	2.4266281	21	1 14.2	21.8
441657 2008 WH_{90}	18.0	X	103.08626	13.43180	59.02779	4.03024	0.2101919	0.25476196	2.4644102	21	3 13.0	21.0
441658 2008 WQ_{91}	16.5	X	9.22494	314.59933	116.49644	22.83444	0.0717060	0.22827254	2.6515528	21	—	—
441659 2008 WV_{95}	17.6	X	231.55930	238.76774	245.38789	20.80769	0.0734039	0.37300520	1.9112880	21	10 15.5	19.8
441660 2008 WS_{108}	17.1	X	172.62119	352.13780	345.50044	5.97817	0.1560204	0.25802110	2.4436138	21	1 20.9	20.8
441661 2008 WE_{112}	17.5	X	154.08342	309.75021	57.14192	3.42271	0.1818706	0.25800110	2.4437401	21	2 10.2	21.1
441662 2008 WJ_{124}	16.3	X	108.79308	68.26522	270.44282	14.43232	0.1452156	0.24062560	2.5600090	21	—	—
441663 2008 WL_{134}	16.8	X	357.28910	322.92213	110.62206	22.98135	0.0292160	0.22683085	2.6627760	21	—	—
441664 2008 WW_{134}	16.1	X	346.74995	329.02245	92.43258	15.27377	0.1670151	0.22898660	2.6460375	21	12 31.9	18.9
441665 2008 WE_{135}	17.8	X	151.93704	279.74592	112.87633	2.20905	0.1896450	0.26226393	2.4171875	21	3 12.0	21.4
441666 2008 WU_{137}	17.7	X	165.22490	148.22341	266.73178	3.98821	0.1864284	0.26823074	2.3812063	21	4 18.7	21.4
441667 2008 WR_{138}	15.8	X	240.99481	12.64054	26.89885	2.87820	0.2839304	0.12632145	3.9338517	21	6 4.8	22.3
441668 2008 XE_{11}	16.3	X	336.57132	342.46587	88.94210	22.74543	0.0391095	0.22967978	2.6407110	21	12 19.9	19.7
441669 2008 XP_{14}	18.6	X	174.24565	115.32524	266.98018	3.55258	0.1958678	0.26670233	2.3902950	21	3 17.0	22.4
441670 2008 XO_{36}	18.4	X	147.04132	12.37298	38.78920	3.16117	0.1699592	0.26384502	2.4075212	21	3 28.6	21.8
441671 2008 XX_{37}	17.3	X	232.21809	280.09753	44.48450	5.99166	0.2180497	0.26666987	2.3904890	21	2 27.7	21.3
441672 2008 XU_{38}	17.6	X	40.85889	41.05400	44.45839	3.07178	0.0263924	0.24604879	2.5222525	21	—	—
441673 2008 XU_{43}	17.1	X	53.24512	326.87904	129.32929	8.68165	0.1496832	0.24068315	2.5596009	21	1 11.7	19.6
441674 2008 XK_{48}	17.8	X	146.45763	168.23506	226.44627	0.79818	0.1985850	0.25687711	2.4508635	21	3 9.4	21.4
441675 2008 XP_{52}	17.0	X	80.50127	113.49953	330.80121	4.44996	0.1622296	0.25435011	2.4670697	21	2 12.6	19.5
441676 2008 YB_{6}	17.6	X	123.00487	353.56932	77.61293	3.39837	0.1573896	0.26163981	2.4210300	21	3 27.6	20.8
441677 2008 YO_{6}	17.8	X	179.04858	244.71671	129.97524	7.32034	0.1836305	0.26493449	2.4009165	21	3 15.7	21.7
441678 2008 YR_{15}	17.8	X	159.93593	283.95651	112.12938	6.91980	0.1209354	0.25868672	2.4394202	21	3 21.1	21.4
441679 2008 YB_{18}	17.7	X	122.56938	72.47531	289.53037	8.33631	0.0765014	0.24000550	2.5644166	21	—	—
441680 2008 YE_{22}	17.0	X	102.01202	271.55134	119.90398	15.83253	0.1661285	0.24310153	2.5425973	21	1 8.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441681 2008 YK_{30}	18.1	X	207.33314	247.27977	129.43794	2.16782	0.1577942	0.27201310	2.3590809	21	4 10.5	21.7
441682 2008 YM_{45}	17.4	X	345.51921	33.86532	86.55765	4.36004	0.1907675	0.23517459	2.5994160	21	—	—
441683 2008 YW_{47}	17.5	X	191.47586	36.82757	310.93146	4.55132	0.2016276	0.25626874	2.4547407	21	2 20.0	21.5
441684 2008 YE_{53}	17.8	X	117.62075	17.05081	11.43036	3.00556	0.1993160	0.24690343	2.5164288	21	1 31.6	21.0
441685 2008 YW_{89}	17.7	X	108.55263	309.67712	112.02578	2.32829	0.1704405	0.25370602	2.4712435	21	2 26.6	20.6
441686 2008 YG_{93}	16.8	X	307.02263	190.71202	293.92877	10.95817	0.0076592	0.22810609	2.6528425	21	—	—
441687 2008 YK_{96}	16.3	X	233.03786	298.09055	299.41222	13.15910	0.0563444	0.23379356	2.6096425	21	—	—
441688 2008 YL_{99}	17.4	X	81.40514	277.18201	115.35766	8.44701	0.1632721	0.24059281	2.5602416	21	—	—
441689 2008 YC_{100}	17.0	X	166.20894	178.55960	114.33163	15.70830	0.1003747	0.23285659	2.6166383	21	—	—
441690 2008 YP_{107}	17.9	X	150.63929	319.38254	113.56606	7.77512	0.1616380	0.26238367	2.4164520	21	5 1.4	21.6
441691 2008 YK_{108}	16.2	X	194.48721	315.90341	303.56895	28.23424	0.0995839	0.22855311	2.6493823	21	—	—
441692 2008 YS_{113}	17.4	X	58.19622	328.60433	98.24353	4.37486	0.1595285	0.24302773	2.5431120	21	—	—
441693 2008 YD_{124}	17.5	X	347.86204	34.60216	121.05769	8.40256	0.0942772	0.24209650	2.5496293	21	—	—
441694 2008 YN_{124}	17.4	X	164.43914	275.65471	86.59056	3.45505	0.2264212	0.25385313	2.4702886	21	2 18.5	21.3
441695 2008 YG_{135}	17.4	X	160.82938	232.90681	119.05915	2.98493	0.1884336	0.25671473	2.4518968	21	1 28.9	21.0
441696 2008 YT_{139}	17.5	X	180.81589	185.25557	170.15136	3.22750	0.2354750	0.25703380	2.4498673	21	2 22.3	21.7
441697 2008 YF_{148}	18.0	X	170.47355	307.94149	281.84442	19.18216	0.0582146	0.37710104	1.8974233	21	—	—
441698 2008 YF_{158}	16.6	X	174.40939	8.92620	138.50433	15.23654	0.0576738	0.19712038	2.9240291	21	8 25.7	20.9
441699 2008 YR_{159}	17.7	X	111.58045	258.16687	132.25049	1.63270	0.1423464	0.24487921	2.5302772	21	1 16.8	20.6
441700 2008 YU_{165}	18.1	X	61.42503	98.36556	346.35491	4.00499	0.1835198	0.24500562	2.5294068	21	1 13.5	20.4
441701 2008 YH_{171}	18.0	X	249.53306	71.81295	110.77775	24.07213	0.0445572	0.38535477	1.8702323	21	—	—
441702 2009 AY	17.8	X	34.21768	158.43481	284.55507	2.96695	0.1586254	0.24001909	2.5643199	21	—	—
441703 2009 AV_{6}	16.8	X	293.04108	237.00673	277.90977	13.29567	0.0835819	0.23022873	2.6365117	21	—	—
441704 2009 AP_{9}	17.3	X	101.18242	147.85702	289.27564	10.36652	0.1986286	0.25390760	2.4699354	21	3 7.0	20.5
441705 2009 AT_{12}	17.5	X	115.23951	280.16032	96.51190	1.52165	0.1355019	0.24388019	2.5371824	21	1 3.1	20.6
441706 2009 AB_{31}	17.5	X	208.56925	337.09996	265.08532	1.20682	0.0641961	0.22973230	2.6403085	21	—	—
441707 2009 AK_{31}	17.5	X	128.70928	256.14241	151.62701	2.38352	0.1713236	0.25403123	2.4691339	21	3 4.9	20.9
441708 2009 AB_{32}	17.1	X	199.49703	283.07103	307.43341	9.53896	0.1661666	0.22113072	2.7083409	21	12 26.6	21.3
441709 2009 AM_{42}	18.2	X	58.19701	182.43747	262.45596	4.69167	0.1147480	0.24235145	2.5478409	21	1 2.5	20.9
441710 2009 AT_{46}	17.0	X	336.22257	271.92294	130.05946	5.30268	0.0649899	0.21559469	2.7545078	21	11 10.5	20.5
441711 2009 BW	17.2	X	143.64619	87.43630	329.91988	11.61321	0.2101546	0.26108919	2.4244326	21	3 31.1	21.1
441712 2009 BW_{3}	16.3	X	129.61236	75.01718	267.81248	11.15257	0.0265090	0.23615155	2.5922419	21	—	—
441713 2009 BB_{5}	16.6	X	261.75694	45.40625	100.21479	22.52527	0.0430010	0.22075239	2.7114344	21	12 12.6	20.3
441714 2009 BQ_{6}	17.1	X	26.53329	184.18277	282.28691	11.44842	0.1060103	0.24011217	2.5636571	21	—	—
441715 2009 BO_{9}	16.4	X	295.06038	205.74293	309.86339	13.15216	0.1477806	0.22627641	2.6671239	21	—	—
441716 2009 BR_{16}	17.1	X	58.57397	294.48469	146.00245	12.96460	0.1495440	0.24033428	2.5620774	21	—	—
441717 2009 BN_{19}	18.0	X	67.58068	182.56880	115.23525	24.87836	0.0756641	0.37053539	1.9197717	21	12 6.5	20.6
441718 2009 BO_{33}	17.3	X	233.16306	231.55102	329.84266	5.83691	0.0308155	0.22465500	2.6799415	21	—	—
441719 2009 BC_{34}	17.3	X	221.38520	146.62719	91.40574	3.56380	0.0801769	0.22865751	2.6485757	21	—	—
441720 2009 BC_{37}	17.5	X	54.39888	297.25158	106.44358	3.02522	0.1379547	0.23354391	2.6115019	21	—	—
441721 2009 BK_{37}	17.7	X	117.99874	296.72276	108.12264	3.08272	0.1247672	0.24734822	2.5134111	21	2 10.9	20.9
441722 2009 BB_{51}	17.3	X	230.89047	120.08032	110.60415	5.21957	0.0446112	0.23010450	2.6374606	21	—	—
441723 2009 BU_{51}	17.1	X	301.28333	168.00363	318.78767	5.67339	0.0461679	0.22414953	2.6839690	21	—	—
441724 2009 BA_{52}	17.3	X	119.71309	75.22499	311.71007	13.78245	0.1349492	0.24482940	2.5306204	21	1 23.2	20.6
441725 2009 BJ_{52}	17.1	X	22.62719	263.85605	119.38861	6.61791	0.1432266	0.22271541	2.6954785	21	—	—
441726 2009 BT_{52}	17.5	X	28.54135	102.92837	316.48667	13.16590	0.0454008	0.22897816	2.6461025	21	—	—
441727 2009 BL_{53}	17.3	X	159.50161	114.88042	121.71979	8.86473	0.1557096	0.21244218	2.7816910	21	11 28.4	21.9
441728 2009 BT_{60}	16.7	X	46.67768	141.68678	309.05194	12.99469	0.1238181	0.23960175	2.5672967	21	—	—
441729 2009 BL_{66}	17.2	X	49.50119	83.95735	290.99003	4.79253	0.0765200	0.22234146	2.6985000	21	—	—
441730 2009 BT_{68}	16.9	X	174.87117	302.82488	144.50275	6.99746	0.1068622	0.26882590	2.3776905	21	6 9.1	20.4
441731 2009 BD_{69}	17.5	X	12.49145	359.13636	116.86944	14.54947	0.0998891	0.23938198	2.5688678	21	—	—
441732 2009 BZ_{74}	16.7	X	52.72366	86.78185	352.96472	8.93352	0.1415967	0.24202113	2.5501586	21	—	—
441733 2009 BV_{77}	17.6	X	174.52070	244.23383	329.16651	17.92419	0.0359946	0.37189364	1.9150945	21	12 19.9	20.0
441734 2009 BR_{81}	16.9	X	310.70700	178.47663	309.19288	11.19005	0.1107696	0.22561423	2.6723401	21	—	—
441735 2009 BC_{89}	17.3	X	231.66705	48.72272	137.45986	5.13356	0.0488054	0.22048216	2.7136495	21	12 21.8	21.1
441736 2009 BO_{90}	17.1	X	276.33624	246.61901	305.52540	3.34819	0.1355253	0.22934438	2.6432849	21	—	—
441737 2009 BB_{99}	16.7	X	248.28329	187.18930	9.67332	7.62356	0.1716622	0.22158325	2.7046522	21	—	—
441738 2009 BL_{102}	17.9	X	102.86011	124.23759	165.94037	21.71916	0.0765459	0.36556537	1.9371326	21	—	—
441739 2009 BP_{103}	17.0	X	101.51713	336.57087	232.45723	1.21899	0.1606117	0.19153479	2.9806040	21	8 29.9	21.5
441740 2009 BN_{107}	17.5	X	120.59448	227.02245	153.30083	6.19174	0.2606805	0.24477593	2.5309889	21	2 1.2	21.0
441741 2009 BN_{110}	17.4	X	200.06694	89.16280	98.48342	3.42028	0.0903313	0.20925376	2.8098763	21	11 10.9	21.6
441742 2009 BR_{111}	17.7	X	124.24429	79.67375	307.40461	3.91631	0.0954439	0.24681350	2.5170399	21	1 22.0	20.9
441743 2009 BH_{134}	17.1	X	17.59412	122.09622	312.75843	5.69528	0.0624097	0.23054280	2.6341167	21	—	—
441744 2009 BA_{136}	16.7	X	58.92797	173.17215	147.83252	5.33652	0.1095568	0.21396492	2.7684775	21	11 26.7	20.6
441745 2009 BM_{139}	17.0	X	151.21918	182.38359	142.44627	4.54626	0.0445756	0.23404584	2.6077669	21	—	—
441746 2009 BJ_{141}	16.8	X	204.49488	57.26753	130.53816	13.23302	0.1340653	0.21266361	2.7797597	21	11 15.8	21.3
441747 2009 BJ_{150}	17.1	X	65.56125	113.03795	322.91100	7.87564	0.0885003	0.23747470	2.5826040	21	1 3.7	20.1
441748 2009 BF_{157}	16.7	X	112.40495	92.28754	153.67191	19.20655	0.1876595	0.19930609	2.9026121	21	11 1.7	21.7
441749 2009 BB_{159}	17.1	X	17.05462	276.66028	159.33077	9.47346	0.1209265	0.22726449	2.6593877	21	—	—
441750 2009 BG_{169}	16.5	X	176.49564	320.93085	287.84348	7.49891	0.1048870	0.21772685	2.7364954	21	12 29.7	20.7
441751 2009 BL_{175}	16.9	X	112.03691	141.72244	139.18342	9.85989	0.2142194	0.21276562	2.7788711	21	12 11.2	21.7
441752 2009 CG_{2}	16.8	X	8.72535	334.83814	111.08905	6.49951	0.0511547	0.23021972	2.6365805	21	—	—
441753 2009 CY_{3}	17.5	X	38.55654	9.02239	93.84954	5.09164	0.1662824	0.24159406	2.5531630	21	—	—
441754 2009 CG_{4}	17.2	X	75.35636	75.69628	286.11121	4.95416	0.1533984	0.23923775	2.5699001	21	—	—
441755 2009 CU_{5}	17.7	X	53.89290	121.75817	140.86353	37.46899	0.0536668	0.35529803	1.9742744	21	9 11.9	20.0
441756 2009 CU_{14}	17.3	X	286.38590	140.88179	348.27853	4.72442	0.1245033	0.21779726	2.7359056	21	12 12.1	20.5
441757 2009 CK_{21}	17.1	X	64.08274	92.66521	309.28074	12.56958	0.0980695	0.23389672	2.6088751	21	—	—
441758 2009 CN_{22}	16.5	X	162.68913	310.68783	311.85198	9.82780	0.1997755	0.21766017	2.7370543	21	12 29.7	21.2
441759 2009 CO_{28}	17.6	X	131.99943	74.00035	359.10231	1.97592	0.1849143	0.25546879	2.4598624	21	4 11.2	21.1
441760 2009 CS_{30}	16.2	X	33.42618	87.51603	139.95097	17.36507	0.1797854	0.17842685	3.1248505	21	6 24.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441761 2009 CU_{34}	17.2	X	197.51247	124.91922	81.81215	5.23522	0.1541095	0.21508325	2.7588726	21	11 26.4	21.5
441762 2009 CD_{39}	17.5	X	199.64861	60.35589	158.02888	23.41267	0.0759418	0.37503152	1.9043972	21	—	—
441763 2009 CS_{41}	17.0	X	121.66473	73.01974	139.95657	11.29955	0.1127010	0.20031922	2.8928171	21	9 24.4	21.5
441764 2009 CZ_{47}	16.7	X	97.32330	305.43416	126.27992	8.05230	0.1843202	0.24529389	2.5274247	21	3 1.2	19.7
441765 2009 CJ_{50}	17.5	X	25.92489	124.35028	330.34323	9.01266	0.1682705	0.23705512	2.5856505	21	—	—
441766 2009 CR_{51}	16.9	X	228.55128	44.39554	127.95482	14.08921	0.1162179	0.21550836	2.7552434	21	11 24.7	21.1
441767 2009 CK_{52}	17.6	X	43.97260	292.02759	140.61857	4.41220	0.2009119	0.23739340	2.5831936	21	—	—
441768 2009 CX_{64}	17.3	X	336.83511	325.07704	131.76521	3.88578	0.1255378	0.22301049	2.6931003	21	—	—
441769 2009 DT_{2}	16.6	X	303.26709	126.15203	11.00063	14.54800	0.0812038	0.22183032	2.7026436	21	—	—
441770 2009 DQ_{3}	16.9	X	64.20841	33.31711	335.64951	5.70261	0.0240205	0.22064235	2.7123358	21	—	—
441771 2009 DU_{3}	18.0	X	226.48805	155.15031	27.38045	6.25184	0.0858943	0.37292731	1.9115541	21	—	—
441772 2009 DE_{4}	16.9	X	22.11106	316.26706	122.31891	5.45999	0.0625328	0.23191365	2.6237262	21	—	—
441773 2009 DU_{7}	16.7	X	8.19113	161.50596	330.71079	13.96389	0.0974744	0.23483521	2.6019198	21	—	—
441774 2009 DM_{31}	16.4	X	93.41776	324.35888	178.32814	14.64061	0.2374366	0.17505994	3.1647897	21	6 9.9	21.3
441775 2009 DS_{34}	17.0	X	9.68547	290.86617	169.38333	12.64592	0.1265254	0.22647188	2.6655890	21	—	—
441776 2009 DM_{41}	16.6	X	329.35574	325.69958	140.40254	14.30540	0.1349840	0.22516535	2.6758905	21	—	—
441777 2009 DF_{45}	15.6	X	217.26714	228.90248	352.56356	24.30133	0.1791284	0.21601117	2.7509661	21	—	—
441778 2009 DZ_{45}	16.6	X	256.14901	354.18903	159.08786	18.03313	0.1701863	0.21571382	2.7534936	21	11 26.6	20.7
441779 2009 DF_{49}	16.6	X	61.58440	62.24386	171.93779	2.71145	0.1452837	0.18284300	3.0743300	21	8 11.2	20.7
441780 2009 DG_{49}	16.8	X	111.38675	236.24524	173.74875	9.13971	0.0870291	0.23751329	2.5823243	21	2 2.6	20.3
441781 2009 DA_{55}	17.6	X	192.62667	214.38673	7.67871	4.60132	0.1007998	0.21357188	2.7718730	21	12 13.1	21.7
441782 2009 DY_{63}	17.0	X	300.06933	6.58568	146.08019	13.30819	0.0973224	0.22252013	2.6970552	21	—	—
441783 2009 DT_{64}	16.4	X	221.92252	276.20863	314.11294	9.06095	0.1499901	0.22152931	2.7050913	21	—	—
441784 2009 DA_{72}	17.1	X	27.10217	325.40161	125.25138	11.52479	0.2281170	0.23565438	2.5958865	21	—	—
441785 2009 DB_{79}	16.9	X	240.04749	232.82710	351.66208	14.32347	0.0564985	0.22445911	2.6815005	21	—	—
441786 2009 DF_{89}	16.7	X	54.62322	345.79877	33.33688	6.57041	0.0579808	0.21661709	2.7458337	21	—	—
441787 2009 DK_{107}	17.8	X	89.88551	36.65834	194.89000	2.56898	0.2372387	0.18853433	3.0121442	21	9 23.1	22.3
441788 2009 DE_{126}	16.9	X	300.44996	129.52565	357.73246	9.00618	0.0291936	0.21471024	2.7620670	21	—	—
441789 2009 DA_{135}	16.6	X	73.36668	141.40562	77.97361	1.67699	0.1043881	0.18240493	3.0792504	21	8 2.7	20.9
441790 2009 EQ_{12}	16.6	X	60.39024	3.90706	67.80729	7.81823	0.2469061	0.24118323	2.5560616	21	—	—
441791 2009 EC_{16}	17.6	X	319.73315	106.51890	18.97860	3.91717	0.1090696	0.22375435	2.6871282	21	—	—
441792 2009 ED_{18}	16.8	X	125.18282	340.35477	335.62720	10.59620	0.0217711	0.22039811	2.7143393	21	—	—
441793 2009 EL_{18}	17.2	X	204.13541	46.28173	174.98874	13.32489	0.1242175	0.21321502	2.7749650	21	12 22.4	21.6
441794 2009 ES_{24}	17.0	X	296.35167	342.37290	107.94726	3.23015	0.0271007	0.20366019	2.8610929	21	11 15.1	20.7
441795 2009 FM_{9}	17.9	X	356.30984	269.25265	177.53737	23.10763	0.0755592	0.38177971	1.8818896	21	—	—
441796 2009 FN_{27}	16.9	X	58.50015	1.85555	93.98214	6.04660	0.1996879	0.24197306	2.5504963	21	1 26.6	19.0
441797 2009 FQ_{27}	16.4	X	42.88032	244.38084	163.92542	14.47325	0.0959230	0.22288766	2.6940896	21	—	—
441798 2009 FV_{27}	16.4	X	77.52214	142.09843	76.33550	4.39277	0.1367799	0.18395098	3.0619727	21	8 12.8	20.7
441799 2009 FJ_{41}	16.8	X	13.39202	35.41666	83.56024	5.43699	0.1367171	0.23361970	2.6109371	21	—	—
441800 2009 FY_{45}	16.5	X	61.74063	98.29312	169.50432	15.25946	0.3489816	0.18444067	3.0565506	21	10 25.2	21.3
441801 2009 FV_{53}	16.9	X	93.87246	270.54524	66.03824	6.94046	0.0543399	0.21301360	2.7767141	21	—	—
441802 2009 FH_{64}	17.0	X	90.93090	69.33932	190.55896	6.35131	0.1832975	0.19164817	2.9794282	21	10 23.9	21.5
441803 2009 FC_{65}	17.1	X	259.17694	136.91800	30.58345	8.74029	0.1134049	0.21166303	2.7885133	21	12 21.9	20.9
441804 2009 FW_{73}	16.0	X	67.34009	152.07150	128.29311	11.61382	0.3272071	0.18545671	3.0453766	21	11 12.6	21.0
441805 2009 HQ_{8}	16.6	X	333.77192	106.86652	31.08838	11.98102	0.1356544	0.22462722	2.6801625	21	—	—
441806 2009 HJ_{24}	16.5	X	75.53231	54.71297	189.54897	17.61654	0.2019516	0.18251781	3.0779806	21	9 17.9	21.0
441807 2009 HE_{34}	16.0	X	60.20006	232.46409	68.55809	14.95182	0.2697412	0.18668179	3.0320387	21	11 20.7	20.5
441808 2009 HV_{39}	16.5	X	147.23819	93.71168	101.95715	12.71824	0.1010590	0.18860598	3.0113813	21	9 30.9	21.4
441809 2009 HV_{48}	16.3	X	128.87048	242.17267	82.47280	7.80354	0.1436989	0.20884004	2.8135861	21	—	—
441810 2009 HD_{99}	17.2	X	178.57737	215.80811	61.11563	2.50293	0.0978635	0.21330856	2.7741537	21	—	—
441811 2009 HF_{102}	16.8	X	43.55275	226.73586	84.40950	2.61544	0.2951494	0.18206488	3.0830833	21	11 16.1	20.9
441812 2009 JH_{8}	16.2	X	94.00779	171.20917	80.18658	13.60517	0.0936498	0.18801034	3.0177382	21	10 12.8	20.8
441813 2009 KH_{5}	16.8	X	63.87278	147.39457	122.28861	9.95311	0.2101829	0.18268024	3.0761559	21	10 12.9	21.3
441814 2009 KP_{23}	16.1	X	42.51259	221.91656	93.85270	11.30671	0.0920845	0.18847387	3.0127883	21	10 27.4	20.3
441815 2009 KU_{23}	15.4	X	133.71635	270.37704	224.71751	31.10343	0.0075259	0.16995094	3.2279019	21	6 13.8	20.4
441816 2009 KC_{24}	16.2	X	249.86209	252.98736	165.86679	15.18579	0.1157791	0.17977305	3.1092311	21	7 21.1	21.0
441817 2009 LM_{4}	15.5	X	56.75864	139.34658	110.89090	23.33356	0.1788236	0.17720282	3.1392240	21	9 5.9	20.1
441818 2009 MW_{8}	15.4	X	74.87126	315.68202	292.24018	25.94944	0.2101612	0.17412006	3.1761683	21	9 7.7	20.6
441819 2009 NW_{1}	15.8	X	36.67369	266.01609	65.02140	25.80080	0.3691516	0.17517399	3.1634159	21	12 8.5	20.1
441820 2009 OD_{10}	15.5	X	26.67663	30.01518	305.86985	19.32516	0.1470107	0.17270475	3.1934971	21	10 20.3	20.0
441821 2009 OW_{12}	15.8	X	336.49088	117.60602	298.15534	21.25061	0.2878695	0.17321506	3.1872217	21	11 12.8	19.1
441822 2009 OC_{17}	15.9	X	57.58080	115.20529	234.23953	10.06219	0.0916812	0.18267978	3.0761610	21	12 19.8	20.3
441823 2009 QO_{5}	22.1	X	321.60289	188.81618	145.76860	8.55532	0.2383400	0.48902658	1.5955646	21	6 11.6	22.1
441824 2009 RO_{61}	15.8	X	72.51301	82.26698	210.14408	16.12688	0.2302926	0.17442803	3.1724287	21	11 16.3	20.6
441825 2009 SK_{1}	18.4	X	344.57819	104.51449	184.38057	30.81797	0.2227963	0.48200407	1.6110249	21	5 3.9	19.2
441826 2009 SR_{64}	16.3	X	304.51861	272.84271	175.38472	9.42535	0.0533073	0.17514863	3.1637213	21	11 17.1	20.6
441827 2009 SA_{88}	18.4	X	188.17227	322.15957	110.16676	3.52861	0.1216976	0.30512145	2.1851817	21	6 1.7	21.5
441828 2009 SF_{97}	16.8	X	352.14410	347.48418	22.64082	0.77929	0.2402628	0.16711042	3.2643774	21	10 20.5	20.0
441829 2009 SQ_{241}	15.6	X	45.13784	138.65169	221.52990	25.79305	0.2027202	0.17517695	3.1633803	21	12 27.5	20.5
441830 2009 SJ_{244}	17.9	X	92.34662	27.05653	102.85811	3.93887	0.0976794	0.29518382	2.2339547	21	4 23.4	20.3
441831 2009 SB_{286}	18.9	X	323.63054	128.07208	175.12057	2.52476	0.1130275	0.31521097	2.1382993	21	5 24.8	20.9
441832 2009 SK_{343}	18.8	X	327.19618	132.82169	156.68178	5.14322	0.2125575	0.31298818	2.1484113	21	4 22.2	20.7
441833 2009 TU_{19}	15.7	X	221.49527	323.63392	49.01844	3.76861	0.0205336	0.13077233	3.8440775	21	5 5.7	21.3
441834 2009 TW_{47}	17.6	X	137.70787	321.22121	73.97050	7.11563	0.1132995	0.28602385	2.2813988	21	2 17.1	20.5
441835 2009 UH_{53}	15.7	X	332.50035	303.11121	28.61372	10.04151	0.0813505	0.14975728	3.5119157	21	7 29.7	20.4
441836 2009 UC_{82}	17.9	X	142.13935	63.63170	30.25070	5.09155	0.0844924	0.29767710	2.2214631	21	5 5.7	20.8
441837 2009 UZ_{125}	18.4	X	261.59988	44.01942	324.50960	4.65080	0.1605707	0.30971581	2.1635178	21	5 20.6	21.3
441838 2009 VJ_{5}	17.4	X	273.34922	267.06879	327.37110	1.59158	0.0862161	0.27696680	2.3308674	21	—	—
441839 2009 VU_{28}	15.6	X	165.43849	199.21903	228.82370	2.98039	0.1753025	0.12393394	3.9842129	21	5 13.9	22.0
441840 2009 VK_{31}	18.2	X	187.49813	62.65333	10.46980	4.58577	0.0816528	0.30166974	2.2018186	21	5 31.5	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441841 2009 VB_{35}	18.7	X	315.20978	32.73433	277.10919	2.86746	0.1692758	0.30885541	2.1675339	21	5 8.8	20.7
441842 2009 VJ_{35}	17.4	X	18.31289	200.38331	271.68516	4.10526	0.0747330	0.27067647	2.3668408	21	—	—
441843 2009 VK_{53}	17.9	X	353.24854	335.19826	238.94489	5.23307	0.1270544	0.29179603	2.2512124	21	2 24.5	20.3
441844 2009 VK_{58}	17.6	X	59.89085	51.78922	81.69166	6.44524	0.1315353	0.28363611	2.2941847	21	3 12.3	19.7
441845 2009 VU_{73}	15.9	X	212.42058	311.08355	58.31046	3.06034	0.0391570	0.12818315	3.8956693	21	4 21.3	21.5
441846 2009 VX_{98}	17.9	X	331.87092	24.67330	107.83862	3.81708	0.1239844	0.26204175	2.4185537	21	—	—
441847 2009 VG_{114}	17.6	X	242.93911	41.41806	264.45056	6.81849	0.2088157	0.28617436	2.2805989	21	2 6.5	21.4
441848 2009 WN_{10}	14.8	X	161.63117	240.22680	206.25870	10.08315	0.2106392	0.12611683	3.9381055	21	6 2.6	21.3
441849 2009 WO_{20}	18.0	X	213.85689	119.97812	301.20851	3.31468	0.1231198	0.30305710	2.1950937	21	6 14.0	21.2
441850 2009 WJ_{23}	17.9	X	170.17957	37.74098	17.91059	3.92635	0.1710218	0.29216934	2.2492943	21	4 22.8	21.3
441851 2009 WK_{33}	15.3	X	186.16569	338.15417	81.69912	4.86844	0.1996857	0.12672245	3.9255485	21	5 21.8	21.7
441852 2009 WC_{42}	18.3	X	236.16314	276.26173	71.81272	5.70334	0.1323848	0.29364235	2.2417659	21	4 2.5	21.6
441853 2009 WD_{71}	18.5	X	271.46983	289.65259	71.14381	4.53118	0.2067918	0.30886450	2.1674914	21	5 17.3	21.2
441854 2009 WR_{96}	18.0	X	112.18113	40.17532	65.95748	3.45604	0.1083095	0.29023985	2.2592521	21	4 19.4	20.6
441855 2009 WY_{96}	18.8	X	295.58917	141.13723	220.32206	4.06540	0.2175831	0.31511808	2.1387195	21	6 17.9	20.9
441856 2009 WD_{101}	17.4	X	334.79404	74.78142	77.07817	7.58439	0.0564795	0.26866238	2.3786551	21	—	—
441857 2009 WP_{162}	18.5	X	192.95989	134.34934	249.90039	7.85975	0.2388510	0.29428386	2.2385068	21	4 2.3	22.4
441858 2009 WS_{169}	18.2	X	84.50166	262.45554	239.16814	6.55116	0.0598725	0.29428398	2.2385062	21	4 18.7	20.6
441859 2009 WU_{171}	18.1	X	258.88926	79.86280	285.61876	4.34944	0.1593881	0.30654680	2.1784028	21	5 13.6	21.1
441860 2009 WH_{190}	17.5	X	309.76474	28.51865	250.32990	4.45090	0.2366198	0.29578884	2.2309073	21	3 4.7	20.5
441861 2009 WF_{219}	18.3	X	236.42020	318.49458	64.82229	4.72208	0.1698481	0.30336901	2.1935889	21	5 14.3	21.6
441862 2009 WX_{260}	18.8	X	250.86289	330.38131	63.89299	2.83137	0.1529777	0.30694746	2.1765067	21	6 15.9	21.4
441863 2009 WE_{262}	17.5	X	92.41839	191.55577	272.53390	6.40049	0.1952345	0.28114057	2.3077409	21	3 29.1	20.1
441864 2009 XG	17.7	X	113.48551	30.04343	86.22639	5.79095	0.1149305	0.29074232	2.2566483	21	5 7.4	20.4
441865 2009 YZ_{2}	17.4	X	215.13512	266.37144	257.91628	3.88147	0.1804698	0.23293098	2.6160812	21	10 21.1	21.5
441866 2009 YM_{11}	18.1	X	179.17508	345.73498	68.71351	3.65266	0.1467376	0.29058896	2.2574422	21	4 30.5	21.4
441867 2009 YA_{15}	17.9	X	5.87774	173.36879	332.93481	4.69154	0.1270629	0.26546073	2.3977424	21	—	—
441868 2009 YC_{17}	17.3	X	24.67023	48.07202	96.62253	7.06280	0.0727263	0.27229762	2.3574373	21	1 22.3	19.8
441869 2009 YG_{23}	17.5	X	108.32009	351.05896	105.61556	8.42531	0.0629129	0.28062032	2.3105922	21	3 28.9	20.4
441870 2009 YF_{25}	18.1	X	5.79705	108.18008	71.73805	2.34849	0.1169299	0.27037107	2.3686228	21	2 6.6	20.3
441871 2010 AX_{38}	17.8	X	52.67353	158.16873	319.99753	6.11857	0.1634751	0.26788546	2.3832519	21	2 4.6	19.8
441872 2010 AC_{40}	17.2	X	124.50792	297.60389	113.78999	22.95993	0.2335587	0.27980233	2.3150933	21	3 17.7	20.9
441873 2010 AB_{55}	18.0	X	349.38663	122.48976	48.16957	3.04684	0.1357480	0.26184888	2.4197411	21	—	—
441874 2010 AC_{60}	18.0	X	166.51997	61.11759	18.92146	5.59796	0.1361692	0.29159490	2.2522474	21	5 19.1	21.2
441875 2010 AX_{128}	16.1	X	166.79126	272.66010	332.42244	21.66862	0.3941396	0.21984022	2.7189295	21	12 5.1	21.8
441876 2010 AV_{133}	17.1	X	129.09614	248.42555	116.89447	12.57518	0.1186026	0.24638696	2.5199441	21	1 3.5	20.4
441877 2010 BS_{6}	17.0	X	196.04749	57.70754	222.63874	13.52608	0.1366663	0.23892010	2.5721774	21	—	—
441878 2010 BK_{13}	17.1	X	114.79568	47.66421	218.68289	18.11930	0.2745199	0.21335214	2.7737759	21	11 28.5	22.1
441879 2010 BC_{74}	17.3	X	205.42320	346.17066	247.11178	6.63437	0.0645761	0.23080448	2.6321253	21	—	—
441880 2010 CX_{9}	16.0	X	159.59821	22.85502	307.78437	30.56603	0.1783572	0.23650412	2.5896649	21	1 9.6	20.2
441881 2010 CW_{31}	17.0	X	97.07151	312.16312	150.65445	22.63377	0.2115541	0.27625078	2.3348933	21	4 17.4	20.3
441882 2010 CC_{51}	17.0	X	316.16080	287.59160	267.60012	9.37160	0.0438684	0.24597942	2.5227267	21	—	—
441883 2010 CM_{70}	17.9	X	352.05356	57.07105	110.16370	4.12308	0.0705809	0.26558976	2.3969657	21	1 4.4	20.8
441884 2010 CX_{73}	17.6	X	158.50095	118.68345	314.48687	5.87027	0.0817572	0.28258749	2.2998566	21	4 25.7	20.9
441885 2010 CH_{79}	17.2	X	196.95026	231.20698	328.32478	1.61943	0.0690296	0.22932079	2.6434662	21	11 25.8	20.9
441886 2010 CZ_{98}	17.0	X	193.25773	121.40843	155.21764	14.05081	0.1878146	0.24131159	2.5551551	21	—	—
441887 2010 CS_{103}	17.3	X	218.65386	257.55576	353.81685	9.63172	0.0564045	0.24453295	2.5326653	21	—	—
441888 2010 CY_{155}	17.3	X	172.74057	283.49092	343.91833	10.75348	0.1974370	0.23562278	2.5961186	21	—	—
441889 2010 CH_{161}	17.4	X	165.38423	111.74761	141.39132	11.89667	0.1563969	0.23360870	2.6110190	21	12 24.6	21.7
441890 2010 CC_{162}	17.4	X	246.06339	300.56236	330.82288	9.25330	0.1285465	0.25818817	2.4425595	21	1 8.9	21.2
441891 2010 CE_{181}	17.4	X	326.43847	26.01213	183.40668	7.48179	0.0684617	0.26270209	2.4144990	21	1 24.4	20.6
441892 2010 CU_{181}	16.9	X	259.65118	11.73943	134.23883	7.34683	0.1051535	0.23439448	2.6051804	21	12 2.9	20.2
441893 2010 CC_{182}	17.5	X	206.29408	258.22694	322.45198	4.60242	0.1772610	0.23520325	2.5992048	21	12 22.2	21.4
441894 2010 DT_{25}	16.8	X	107.28429	51.48768	313.49686	27.11705	0.1489451	0.23150351	2.6268242	21	—	—
441895 2010 EM	16.3	X	318.99287	62.27563	118.92874	24.74164	0.1104621	0.24267324	2.5455880	21	—	—
441896 2010 EF_{29}	17.0	X	213.45672	58.89211	174.39121	15.57590	0.1555010	0.23585985	2.5943787	21	—	—
441897 2010 EG_{32}	17.1	X	215.98975	226.77794	359.31610	12.76201	0.1206454	0.23717436	2.5847838	21	—	—
441898 2010 EP_{33}	16.6	X	191.00166	220.37930	3.62575	13.31761	0.2124852	0.22747002	2.6577856	21	12 5.5	21.2
441899 2010 EU_{66}	17.8	X	239.31389	86.62352	144.93136	4.88376	0.0438036	0.24554595	2.5256948	21	—	—
441900 2010 EC_{68}	17.1	X	239.00910	178.44647	19.78105	12.57851	0.1287280	0.23512434	2.5997863	21	—	—
441901 2010 ES_{73}	17.2	X	239.20179	200.98623	11.15540	12.57622	0.1586758	0.23631845	2.5910212	21	—	—
441902 2010 EX_{77}	17.5	X	218.80867	93.65182	125.25550	4.77337	0.0837868	0.23612080	2.5924669	21	—	—
441903 2010 EH_{97}	17.6	X	251.87874	210.08506	36.29653	4.58216	0.0166380	0.25278571	2.4772378	21	—	—
441904 2010 EZ_{102}	17.6	X	146.69462	24.81559	260.18927	1.25023	0.1872065	0.23080443	2.6321257	21	—	—
441905 2010 EH_{104}	17.1	X	116.80512	156.60326	318.40407	10.39417	0.1496446	0.27852148	2.3221856	21	5 10.1	20.4
441906 2010 EC_{111}	16.9	X	187.39823	219.88152	357.03231	13.31257	0.2034986	0.22404787	2.6847809	21	11 22.9	21.5
441907 2010 EW_{122}	16.8	X	143.27380	77.41534	210.63057	12.16754	0.2629211	0.22374022	2.6872414	21	—	—
441908 2010 EM_{134}	16.8	X	182.00782	22.12858	193.86962	17.46779	0.0693378	0.22374812	2.6871781	21	11 30.2	21.0
441909 2010 EN_{171}	17.4	X	193.36511	123.22435	110.63684	12.79668	0.2537668	0.22978401	2.6399124	21	12 19.6	21.9
441910 2010 FW_{14}	16.6	X	212.34824	118.63257	99.94642	12.95782	0.1296787	0.23403111	2.6078763	21	12 31.1	20.4
441911 2010 FU_{19}	17.1	X	236.66642	75.75602	161.74899	10.79463	0.0767788	0.24394654	2.5367224	21	—	—
441912 2010 FD_{85}	16.9	X	182.20986	142.80832	74.96578	12.85158	0.2446073	0.22251344	2.6971093	21	11 22.6	21.5
441913 2010 FO_{87}	17.8	X	222.08409	259.38055	358.98133	2.55037	0.0719983	0.24239599	2.5475288	21	—	—
441914 2010 FL_{101}	15.9	X	137.34609	82.68259	88.61068	15.73840	0.0912083	0.20397036	2.8581916	21	8 20.0	20.4
441915 2010 GT_{94}	15.5	X	16.52397	195.99492	69.94025	16.40984	0.0185143	0.17757281	3.1348618	21	7 4.9	20.0
441916 2010 GO_{119}	16.9	X	221.64336	228.97323	12.22582	3.90959	0.0374135	0.23584679	2.5944745	21	—	—
441917 2010 GT_{123}	16.5	X	136.42751	133.69475	151.77349	11.51364	0.1547090	0.22175842	2.7032278	21	—	—
441918 2010 GN_{127}	17.5	X	149.16200	137.58977	149.20271	6.69998	0.2395088	0.22338530	2.6900870	21	—	—
441919 2010 GE_{142}	17.3	X	231.95157	326.95366	194.28925	12.96464	0.0996087	0.22630931	2.6668654	21	11 16.3	21.1
441920 2010 GW_{145}	17.0	X	157.62047	91.36794	155.01684	14.06685	0.2194692	0.22061039	2.7125978	21	12 8.3	21.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
441921 2010 HB_5	16.9	X	108.75157	274.99923	94.06553	17.72756	0.3470877	0.21558650	2.7545776	21	1 23.7	20.8
441922 2010 HK_{45}	16.0	X	324.22249	83.06750	260.89675	14.64799	0.1424850	0.17859808	3.1228529	21	7 20.6	20.0
441923 2010 HA_{70}	15.8	X	106.09678	34.62185	131.46729	21.94472	0.1214202	0.17526050	3.1623748	21	7 8.2	20.6
441924 2010 JB_2	17.2	X	90.81119	24.82572	236.21922	2.86578	0.1399548	0.20543774	2.8445652	21	10 20.7	21.5
441925 2010 JK_3	16.6	X	207.97021	344.52188	255.48880	15.77832	0.1881041	0.23028910	2.6360509	21	—	—
441926 2010 JL_{13}	16.6	X	72.23960	175.86167	189.88903	10.83091	0.2868980	0.20515003	2.8472241	21	—	—
441927 2010 JQ_{30}	17.0	X	338.67158	6.67020	128.13839	12.36716	0.1232455	0.23826574	2.5768847	21	—	—
441928 2010 JT_{31}	17.2	X	207.70671	103.43953	139.80411	13.17486	0.2163369	0.23154674	2.6264972	21	—	—
441929 2010 JB_{34}	16.8	X	270.80687	102.93965	88.69338	13.11637	0.2283483	0.23732438	2.5836944	21	—	—
441930 2010 JM_{37}	17.5	X	143.52531	221.92289	80.69077	3.73014	0.1726037	0.22573683	2.6713724	21	—	—
441931 2010 JS_{43}	16.6	X	179.87948	175.34481	88.51647	10.75249	0.0793786	0.22727077	2.6593388	21	—	—
441932 2010 JZ_{43}	17.7	X	223.51725	73.66240	151.83047	4.92367	0.1310825	0.23007921	2.6376539	21	—	—
441933 2010 JU_{45}	17.2	X	124.70377	97.28017	185.23247	4.80617	0.1699828	0.21584073	2.7524141	21	12 20.9	21.8
441934 2010 JB_{77}	17.2	X	109.12632	84.96148	223.19987	6.71325	0.2156325	0.21732814	2.7398413	21	—	—
441935 2010 JZ_{77}	16.4	X	294.30227	119.80772	57.92595	12.45943	0.1206648	0.23859996	2.5744777	21	—	—
441936 2010 JP_{78}	17.3	X	5.47817	88.66592	109.50533	3.49878	0.0418314	0.25906233	2.4370617	21	3 14.4	20.2
441937 2010 JK_{83}	17.0	X	137.60540	115.66880	186.27396	12.13476	0.1226883	0.22435891	2.6822989	21	—	—
441938 2010 JA_{114}	16.9	X	131.66643	164.29428	86.80077	3.31376	0.1933993	0.21347345	2.7727250	21	11 21.0	21.6
441939 2010 JG_{133}	15.9	X	295.27590	233.73984	139.65619	28.45653	0.2117680	0.17351260	3.1835771	21	7 9.1	20.5
441940 2010 JL_{147}	17.0	X	206.15758	356.88349	215.40581	4.83950	0.0961254	0.22526639	2.6750903	21	12 18.7	20.9
441941 2010 JV_{149}	16.8	X	106.77978	108.00463	229.24588	13.07124	0.2246334	0.22052743	2.7132781	21	—	—
441942 2010 KB_{35}	16.4	X	72.58516	27.33479	324.73479	16.56564	0.1667646	0.20341768	2.8633663	21	—	—
441943 2010 KF_{62}	16.8	X	153.10526	171.93063	94.37353	7.78104	0.2672255	0.21795455	2.7345892	21	12 24.7	21.6
441944 2010 KZ_{78}	17.2	X	110.13741	152.26253	130.53773	9.10843	0.1727410	0.19978055	2.8980147	21	12 7.9	22.0
441945 2010 KZ_{79}	15.9	X	300.44556	91.34502	325.30487	17.83978	0.0537183	0.18600730	3.0393640	21	9 24.1	20.2
441946 2010 KR_{95}	15.8	X	14.76377	55.15357	309.06184	9.60011	0.0487321	0.19181125	2.9777393	21	11 6.0	19.9
441947 2010 LE_{12}	16.5	X	56.84328	286.95608	333.78609	5.78469	0.2970537	0.18420390	3.0591693	21	9 29.5	20.8
441948 2010 LD_{17}	16.2	X	37.97358	48.66799	308.64843	10.94144	0.0728809	0.19467247	2.9484902	21	12 4.5	20.3
441949 2010 LZ_{33}	16.8	X	128.10311	76.47371	194.72023	9.45153	0.2480164	0.21277355	2.7788022	21	12 12.6	21.8
441950 2010 LG_{35}	17.8	X	103.52447	181.98607	148.13943	21.39743	0.1154640	0.39708628	1.8332124	21	—	—
441951 2010 LB_{57}	16.6	X	75.72119	3.09985	284.88181	2.77578	0.2290409	0.19152761	2.9806785	21	11 14.8	21.1
441952 2010 LR_{68}	18.3	X	359.16595	299.68508	109.07459	4.71189	0.5868038	0.18104207	3.0946845	21	—	—
441953 2010 LZ_{69}	16.2	X	343.34516	43.33880	328.93989	15.97703	0.1473637	0.18213611	3.0822794	21	9 28.2	20.0
441954 2010 LY_{72}	16.2	X	19.20162	332.82590	355.42246	7.80524	0.1515928	0.18311373	3.0712990	21	10 9.2	19.9
441955 2010 LL_{78}	16.1	X	81.57469	30.74037	259.22943	12.41105	0.1406648	0.19145547	2.9814271	21	11 12.5	20.6
441956 2010 LM_{86}	16.1	X	319.18418	238.16955	167.59878	13.77378	0.1645030	0.18214493	3.0821799	21	10 8.3	19.6
441957 2010 LD_{100}	16.9	X	17.38200	178.87081	187.30818	12.44258	0.2581723	0.18809817	3.0167987	21	12 13.3	20.6
441958 2010 LR_{101}	16.6	X	349.29909	38.92917	331.56007	0.14445	0.1798755	0.18227068	3.0807622	21	10 15.5	19.7
441959 2010 LR_{116}	15.4	X	97.77218	312.88371	276.83095	17.65230	0.0512523	0.17749808	3.1357416	21	8 28.5	20.3
441960 2010 LV_{117}	16.9	X	50.99376	166.29631	169.61166	9.88286	0.1236240	0.19205430	2.9752264	21	12 3.7	21.2
441961 2010 MN_6	15.5	X	317.67612	58.58810	312.37170	15.49861	0.1860301	0.17368186	3.1815084	21	8 11.9	19.3
441962 2010 MJ_{23}	17.1	X	20.55020	310.26890	31.75145	0.87077	0.1915296	0.18478888	3.0527096	21	11 5.8	20.6
441963 2010 MB_{24}	16.3	X	66.40010	321.35965	328.03946	10.32419	0.0953078	0.18511678	3.0491036	21	10 15.1	20.7
441964 2010 MA_{26}	16.3	X	296.43684	105.62143	293.40278	6.17645	0.1601438	0.17325111	3.1867797	21	8 17.9	20.4
441965 2010 MS_{33}	16.6	X	25.23907	338.07710	347.90696	4.84218	0.2194380	0.18328284	3.0694096	21	10 25.7	20.2
441966 2010 MN_{37}	15.9	X	302.23462	273.17144	173.97620	26.14007	0.2147894	0.18486502	3.0518714	21	10 28.9	19.7
441967 2010 MB_{49}	16.6	X	355.09260	199.94566	174.13424	5.39073	0.1754240	0.18318612	3.0704899	21	11 2.3	19.9
441968 2010 MD_{66}	16.5	X	44.75871	3.14198	325.51212	8.16930	0.0956243	0.18694922	3.0291465	21	11 7.3	20.8
441969 2010 MO_{70}	16.5	X	38.39969	357.64605	311.32296	3.44188	0.2129754	0.18314621	3.0709360	21	10 23.2	20.4
441970 2010 MK_{72}	16.1	X	33.22890	6.23528	324.55164	16.48763	0.1782151	0.18503889	3.0499593	21	11 1.5	20.4
441971 2010 MT_{77}	16.4	X	340.40142	34.05214	348.37108	8.65513	0.1606987	0.18059783	3.0997573	21	10 11.0	20.0
441972 2010 MS_{79}	16.7	X	54.20472	123.69276	200.23186	6.97827	0.2186306	0.18962800	3.0005514	21	12 4.7	21.0
441973 2010 MN_{81}	15.6	X	321.50820	108.63977	303.89757	16.33901	0.2132494	0.18033298	3.1027917	21	10 4.3	19.3
441974 2010 MQ_{92}	16.7	X	24.59253	17.45049	342.67388	8.46723	0.1607885	0.18770386	3.0210222	21	11 29.7	20.7
441975 2010 MX_{93}	15.9	X	58.22691	8.13027	288.42456	17.59372	0.0817941	0.18233414	3.0800473	21	10 7.0	20.6
441976 2010 MW_{108}	16.5	X	310.23016	24.39249	20.23507	6.03749	0.2360329	0.17477733	3.1682004	21	9 9.7	20.1
441977 2010 MJ_{110}	16.4	X	33.32734	145.54063	192.26010	17.76322	0.1784347	0.18596306	3.0398461	21	11 20.1	20.5
441978 2010 MC_{111}	16.3	X	7.61411	178.50490	177.64304	18.32412	0.1589021	0.18240889	3.0792058	21	11 1.2	20.1
441979 2010 ND_{22}	15.7	X	328.47012	303.36975	76.75345	9.59224	0.2207875	0.17554744	3.1589280	21	9 18.4	19.1
441980 2010 NT_{23}	15.7	X	54.89827	71.38000	187.00975	18.16838	0.2060633	0.17481244	3.1677762	21	9 9.6	20.1
441981 2010 NV_{31}	16.1	X	15.17444	89.26279	277.69432	7.89085	0.1613144	0.18566381	3.0431116	21	11 24.6	19.8
441982 2010 NJ_{42}	16.5	X	349.69581	98.78407	331.92215	12.94509	0.2600308	0.18969750	2.9998185	21	—	—
441983 2010 NQ_{42}	16.7	X	357.93927	312.97681	60.75422	7.54166	0.1016219	0.18265079	3.0764865	21	11 1.7	20.6
441984 2010 NX_{43}	15.8	X	325.29159	58.81936	357.51726	21.91559	0.0398732	0.18480287	3.0525555	21	10 27.5	20.2
441985 2010 NP_{53}	16.6	X	30.86397	3.11018	343.34681	11.23159	0.2597140	0.18629612	3.0362219	21	12 6.3	20.7
441986 2010 NG_{63}	15.7	X	305.78674	25.93781	14.88870	10.11754	0.0732890	0.17468751	3.1692864	21	9 18.8	19.9
441987 2010 NY_{65}	21.3	X	78.46038	251.87280	267.97212	11.55698	0.3704006	0.98169353	1.0026563	21	—	—
441988 2010 NS_{71}	15.8	X	324.80754	351.44048	28.51689	11.20895	0.0623037	0.17441474	3.1725898	21	9 21.9	20.0
441989 2010 NA_{81}	15.5	X	16.01151	5.51385	359.95190	16.94805	0.1244278	0.18443514	3.0566117	21	11 13.5	19.6
441990 2010 NC_{84}	15.9	X	54.35054	329.38670	334.70167	14.89815	0.1288491	0.18365226	3.0652921	21	10 20.5	20.4
441991 2010 NO_{84}	16.2	X	64.31306	75.54309	248.19196	9.15776	0.0292856	0.18893407	3.0078940	21	11 19.5	20.5
441992 2010 NG_{86}	16.5	X	74.46848	109.06760	176.21853	21.21446	0.2984239	0.18929612	3.0040575	21	11 20.9	21.6
441993 2010 NT_{102}	16.7	X	25.75138	124.11265	212.73426	12.10724	0.1637586	0.18240757	3.0792207	21	11 3.6	20.4
441994 2010 NX_{103}	16.3	X	313.47634	49.82720	321.25488	5.42228	0.1083479	0.16956334	3.2328191	21	8 15.7	20.3
441995 2010 NU_{106}	16.2	X	349.50825	55.04604	329.53482	8.19864	0.1552186	0.18154485	3.0889681	21	10 30.1	19.9
441996 2010 OY_5	15.7	X	347.44803	94.88427	296.13096	15.54953	0.1481284	0.18188063	3.0851652	21	11 1.5	19.7
441997 2010 OZ_5	15.6	X	13.20354	101.59090	268.42658	10.41499	0.0739678	0.18467928	3.0539172	21	11 14.6	19.6
441998 2010 OK_6	15.4	X	2.65026	305.35847	20.97500	16.84328	0.2400213	0.17518643	3.1632662	21	9 20.7	18.6
441999 2010 OQ_{12}	15.6	X	313.26257	232.76049	203.74990	15.30727	0.2449097	0.18042417	3.1017460	21	10 28.0	18.7
442000 2010 OL_{14}	15.8	X	48.57418	326.74291	356.28854	9.45727	0.0841637	0.18310503	3.0713964	21	11 2.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442001 2010 OH_{15}	15.7	X	299.05625	187.82800	234.15220	13.88409	0.1676745	0.17483125	3.1675490	21	9 16.1	19.9
442002 2010 OX_{17}	16.0	X	8.30982	76.35066	316.33856	13.61466	0.1279083	0.18752913	3.0228985	21	12 13.9	19.9
442003 2010 ON_{19}	16.0	X	55.96205	70.08907	248.14981	10.89781	0.1230302	0.18475409	3.0530928	21	11 14.8	20.2
442004 2010 OJ_{20}	15.8	X	304.70551	238.28329	201.47950	11.83736	0.1230821	0.18149854	3.0894936	21	10 31.3	19.6
442005 2010 OY_{23}	16.4	X	1.58092	81.82447	302.93289	14.41047	0.2158976	0.18356359	3.0662791	21	11 30.1	20.0
442006 2010 OQ_{26}	15.4	X	275.31757	170.75312	285.47759	14.92483	0.1679235	0.17661028	3.1462415	21	9 22.7	20.1
442007 2010 OS_{38}	16.4	X	342.08005	22.51613	352.03511	12.89027	0.1273737	0.17646893	3.1479214	21	10 2.8	20.3
442008 2010 OF_{40}	16.2	X	29.39982	325.25029	32.37456	15.69212	0.2138713	0.18622709	3.0369722	21	12 10.1	20.3
442009 2010 OB_{42}	15.6	X	35.70421	354.22214	288.74418	16.32027	0.2397929	0.17393365	3.1784373	21	9 10.4	19.8
442010 2010 OE_{43}	16.1	X	20.36215	34.60383	358.28664	13.32122	0.1363621	0.19001448	2.9964814	21	—	—
442011 2010 OK_{55}	15.7	X	25.18098	41.30077	286.29633	13.46235	0.0545769	0.17638913	3.1488708	21	9 29.5	20.3
442012 2010 OL_{67}	16.2	X	335.13279	149.71454	214.96504	15.78719	0.1174122	0.17218348	3.1999392	21	9 5.6	20.4
442013 2010 OR_{68}	16.3	X	296.60784	314.92039	119.91166	6.24344	0.1535634	0.17626258	3.1503777	21	10 9.8	20.3
442014 2010 OC_{70}	16.6	X	19.31671	126.96234	198.38977	9.52591	0.2298846	0.17778017	3.1324237	21	10 17.3	20.0
442015 2010 OS_{73}	16.3	X	358.12961	240.83302	124.04491	11.94964	0.1771185	0.17845045	3.1245750	21	10 29.9	20.0
442016 2010 OG_{81}	16.3	X	17.11501	22.39653	313.39873	9.37357	0.2133875	0.17858685	3.1229838	21	10 19.7	20.1
442017 2010 OQ_{84}	15.9	X	310.07578	346.06297	83.36894	10.46641	0.1286383	0.17902816	3.1178495	21	10 28.8	19.8
442018 2010 OZ_{87}	16.3	X	16.49830	125.68659	214.99283	17.78373	0.0518022	0.17660254	3.1463335	21	10 9.7	20.6
442019 2010 OO_{94}	15.7	X	31.23285	243.82848	49.41000	25.01513	0.2644300	0.17548478	3.1596798	21	10 12.5	19.8
442020 2010 OB_{103}	16.5	X	28.17591	311.98285	39.59502	8.08974	0.2551197	0.18436466	3.0573906	21	12 8.4	20.4
442021 2010 OC_{104}	15.9	X	329.18346	53.05507	344.73554	10.48997	0.1473580	0.17647113	3.1478952	21	10 9.6	19.7
442022 2010 OO_{104}	15.9	X	311.26360	309.18582	99.20899	10.54626	0.0667019	0.17493834	3.1662562	21	10 10.2	20.2
442023 2010 OV_{115}	16.9	X	212.57258	304.77355	292.06671	11.31972	0.0910833	0.23158884	2.6261788	21	—	—
442024 2010 OK_{116}	16.4	X	36.38010	46.51746	265.17957	8.77208	0.1726536	0.17721853	3.1390384	21	10 14.8	20.5
442025 2010 OG_{117}	16.3	X	328.64727	146.51755	227.62786	8.70886	0.1259372	0.17133791	3.2104586	21	9 7.9	20.4
442026 2010 OZ_{119}	16.1	X	22.77358	328.42057	14.34447	17.37430	0.1539328	0.17962938	3.1108887	21	10 30.5	20.1
442027 2010 OH_{127}	16.5	X	355.56773	81.41201	286.31375	9.25466	0.1738580	0.18408211	3.0605184	21	10 19.6	20.1
442028 2010 PA_{4}	15.5	X	37.58947	348.17697	303.47685	14.21452	0.1984297	0.17302728	3.1895273	21	9 19.8	19.8
442029 2010 PZ_{4}	15.8	X	27.13739	85.43358	249.90024	14.92562	0.1065639	0.17834785	3.1257733	21	10 22.7	20.1
442030 2010 PR_{6}	16.4	X	327.85585	94.18940	313.89468	8.64785	0.2244085	0.17691738	3.1425996	21	10 15.5	19.7
442031 2010 PW_{10}	16.1	X	358.86416	326.27807	34.21177	9.57450	0.1759786	0.17691545	3.1426225	21	10 20.2	19.6
442032 2010 PH_{19}	16.1	X	324.57285	199.74413	195.41062	8.95203	0.0762600	0.17472841	3.1687917	21	10 6.0	20.1
442033 2010 PV_{27}	15.9	X	32.76248	337.38910	5.54543	22.73989	0.1456707	0.18164478	3.0878352	21	11 8.9	20.3
442034 2010 PY_{35}	15.9	X	310.53320	298.28535	110.87847	10.35287	0.0758391	0.17397298	3.1779583	21	10 8.8	20.2
442035 2010 PT_{64}	16.0	X	346.91763	70.16707	330.74051	9.28427	0.0927325	0.19074742	2.9888006	21	11 15.9	19.9
442036 2010 PP_{65}	17.5	X	106.02457	24.04825	281.78487	18.14006	0.0644818	0.38416639	1.8740872	21	—	—
442037 2010 PR_{66}	19.3	X	73.96624	319.52823	292.74763	17.58871	0.6869693	0.19675662	2.9276320	21	11 7.9	25.4
442038 2010 PG_{69}	15.8	X	273.08812	95.11367	6.26141	19.14319	0.2669578	0.17156121	3.2076722	21	9 22.1	20.4
442039 2010 PW_{80}	15.8	X	71.24817	0.09927	318.92579	11.19803	0.0313386	0.18798089	3.0180534	21	11 19.7	20.3
442040 2010 RG_{5}	16.3	X	21.60095	294.11709	4.96888	8.33111	0.1512874	0.17753965	3.1352521	21	9 7.5	20.0
442041 2010 RA_{10}	16.9	X	2.31722	29.65089	359.81885	11.74196	0.2035424	0.18906477	3.0065076	21	12 7.1	20.4
442042 2010 RV_{10}	16.1	X	280.38971	251.14491	196.41620	9.70382	0.0719659	0.18108086	3.0942425	21	10 11.8	20.3
442043 2010 RX_{10}	16.6	X	62.43538	332.49638	336.20846	4.42827	0.2647709	0.18987382	2.9979611	21	11 29.8	21.2
442044 2010 RA_{11}	17.4	X	343.42821	104.72080	327.21236	4.67673	0.1541198	0.19174431	2.9784323	21	12 27.4	20.7
442045 2010 RF_{19}	16.4	X	357.60376	57.48620	293.27014	7.10861	0.2063806	0.18270531	3.0758744	21	10 2.4	19.8
442046 2010 RY_{28}	16.7	X	48.30462	230.67313	192.80995	4.64087	0.0290909	0.21319910	2.7751032	21	—	—
442047 2010 RG_{30}	16.6	X	68.63992	12.08303	345.59506	9.22719	0.0635515	0.20087041	2.8875227	21	—	—
442048 2010 RQ_{32}	16.6	X	27.16251	25.08630	327.20001	9.33076	0.0654590	0.19157399	2.9801973	21	11 9.8	20.8
442049 2010 RY_{47}	16.7	X	69.11934	260.49728	185.70024	12.94749	0.1613375	0.21610942	2.7501323	21	2 1.7	20.0
442050 2010 RK_{48}	16.4	X	337.77085	39.08313	355.41623	4.96544	0.1445807	0.18184653	3.0855508	21	10 24.0	19.8
442051 2010 RY_{49}	15.4	X	264.09402	93.99550	7.92722	15.73474	0.2073594	0.17551740	3.1592884	21	9 20.9	20.0
442052 2010 RF_{53}	16.1	X	46.88411	328.93540	325.70004	5.36904	0.2731879	0.18418616	3.0593657	21	10 25.3	20.2
442053 2010 RC_{57}	16.2	X	338.03099	43.79788	328.01364	9.26867	0.0888040	0.18003987	3.1061584	21	9 23.3	20.1
442054 2010 RP_{58}	15.9	X	0.06580	28.12695	341.95852	14.83070	0.0554028	0.18585517	3.0410224	21	10 20.5	20.2
442055 2010 RB_{60}	15.7	X	95.90058	244.92110	356.75795	8.52792	0.0391063	0.17411549	3.1762239	21	9 17.9	20.2
442056 2010 RB_{61}	16.2	X	349.85564	162.67463	195.64822	12.84883	0.1286308	0.17622947	3.1507724	21	9 26.7	19.9
442057 2010 RC_{62}	15.5	X	359.51808	335.25750	344.94239	15.69812	0.0700402	0.17192377	3.2031610	21	8 25.2	19.6
442058 2010 RN_{107}	16.0	X	320.69066	359.13692	16.86649	12.22389	0.0340799	0.17199871	3.2022305	21	9 12.9	20.4
442059 2010 RN_{110}	16.9	X	24.83760	148.96866	182.37088	1.72115	0.0972828	0.18151516	3.0893050	21	10 17.2	20.8
442060 2010 RS_{111}	15.9	X	178.78967	155.59603	11.25447	9.37248	0.0363575	0.17665361	3.1457271	21	9 23.0	20.4
442061 2010 RF_{113}	16.3	X	58.11237	313.43846	337.72508	9.98716	0.1464489	0.18111288	3.0938778	21	10 14.5	20.7
442062 2010 RA_{115}	16.2	X	59.24329	293.42528	346.20004	9.11729	0.0645296	0.17540074	3.1606890	21	9 21.9	20.7
442063 2010 RB_{124}	16.8	X	60.19196	268.10134	353.29335	3.30512	0.1670628	0.18017302	3.1046278	21	9 17.0	21.0
442064 2010 RU_{134}	16.6	X	44.74483	119.10075	179.18092	10.61809	0.2844292	0.18466509	3.0540737	21	11 2.4	20.8
442065 2010 RH_{136}	16.3	X	0.76847	305.43603	35.37486	9.78846	0.1105579	0.17535696	3.1612151	21	9 26.0	20.2
442066 2010 RQ_{142}	16.3	X	4.77671	3.68589	347.26759	10.08592	0.1018406	0.18004131	3.1061417	21	10 8.8	20.3
442067 2010 RD_{144}	15.8	X	97.86536	45.90071	202.87693	16.63932	0.1597965	0.18034342	3.1026719	21	10 12.8	20.7
442068 2010 RE_{144}	16.2	X	10.24565	351.99351	354.24777	8.81703	0.0667400	0.17940902	3.1134355	21	10 9.2	20.3
442069 2010 RP_{149}	16.5	X	192.99035	214.84824	337.67645	8.87434	0.0090581	0.19010911	2.9954869	21	11 8.7	20.9
442070 2010 RC_{150}	16.5	X	336.41809	35.67371	339.60982	8.73034	0.1163491	0.17970193	3.1100513	21	9 25.5	20.2
442071 2010 RV_{151}	17.6	X	10.66034	311.17446	36.98540	0.97506	0.1793525	0.18194417	3.0844468	21	10 25.9	21.0
442072 2010 RX_{154}	15.7	X	158.06005	123.52121	40.99252	9.07569	0.0312875	0.16802806	3.2524816	21	8 29.7	20.5
442073 2010 RA_{155}	16.8	X	16.93309	244.19588	76.41964	3.49057	0.1833963	0.17701962	3.1413895	21	10 1.9	20.4
442074 2010 RL_{158}	16.2	X	344.08426	44.83711	308.20705	9.44932	0.1161918	0.17988557	3.1079343	21	9 7.3	20.0
442075 2010 RX_{164}	16.3	X	348.71275	87.65990	311.82434	9.07218	0.1477010	0.18756690	3.0224926	21	11 19.8	20.0
442076 2010 RX_{175}	16.3	X	358.27778	38.20020	319.02646	4.55350	0.1598621	0.17991524	3.1075926	21	10 11.0	19.9
442077 2010 RE_{176}	16.5	X	348.64964	22.96200	352.32633	8.89758	0.1061219	0.18018797	3.1044561	21	10 15.4	20.3
442078 2010 RB_{178}	16.6	X	16.57427	286.39753	38.95247	9.92755	0.2656771	0.17949214	3.1124741	21	10 19.1	19.9
442079 2010 RA_{180}	16.1	X	25.23464	168.83227	139.64631	1.89573	0.1689916	0.17936400	3.1139564	21	9 27.3	19.7
442080 2010 SD_{8}	16.7	X	115.52969	253.42358	341.12993	9.30714	0.0978482	0.18459719	3.0548226	21	10 5.6	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442081 2010 SO_{15}	16.0	X	351.83146	53.62540	331.59120	8.55180	0.0960272	0.18643426	3.0347219	21	11 2.1	19.9
442082 2010 SF_{20}	16.5	X	8.42698	128.48574	202.43347	10.68070	0.0967612	0.17606413	3.1527446	21	9 18.7	20.5
442083 2010 SQ_{21}	17.0	X	7.02484	173.12370	185.27347	0.28017	0.1720506	0.18198654	3.0839680	21	11 1.3	20.6
442084 2010 SZ_{33}	16.8	X	2.33239	259.37645	117.02429	2.81995	0.1078028	0.18334084	3.0687622	21	11 11.9	20.7
442085 2010 SE_{37}	16.0	X	338.33969	39.29018	357.66771	16.87947	0.2196238	0.18017576	3.1045964	21	10 22.3	19.4
442086 2010 SR_{38}	17.1	X	169.54253	278.50649	288.07680	17.48749	0.0437314	0.36791563	1.9288741	21	11 28.2	19.5
442087 2010 SF_{39}	16.1	X	326.17981	116.41792	289.33816	8.55983	0.1655702	0.18048629	3.1010343	21	10 13.7	19.7
442088 2010 TL_{1}	16.8	X	342.26276	348.26194	37.34109	5.37315	0.1381471	0.17984166	3.1084402	21	10 21.9	20.4
442089 2010 TO_{8}	16.6	X	38.44746	102.53221	196.19371	9.27819	0.1000616	0.17797608	3.1301245	21	9 23.6	20.6
442090 2010 TT_{14}	16.2	X	294.97991	65.10664	358.48697	8.66041	0.1081515	0.17662500	3.1460667	21	9 25.6	20.2
442091 2010 TQ_{26}	16.4	X	343.90450	17.60603	356.38962	9.33250	0.0776004	0.18085331	3.0968374	21	10 6.9	20.3
442092 2010 TK_{28}	16.4	X	89.14350	56.22811	197.50687	16.92555	0.0993982	0.17953907	3.1119317	21	10 2.1	21.0
442093 2010 TR_{28}	17.1	X	321.70777	223.10449	204.42880	8.22870	0.2207703	0.18332676	3.0689194	21	11 5.9	20.1
442094 2010 TA_{34}	16.6	X	297.21298	43.92523	35.81000	8.94810	0.1214075	0.17947230	3.1127036	21	10 19.6	20.5
442095 2010 TP_{39}	16.8	X	12.92614	177.44819	183.91544	2.39065	0.1486467	0.18407542	3.0605926	21	11 13.3	20.3
442096 2010 TG_{53}	17.3	X	323.58706	307.82893	112.33563	2.42708	0.1502075	0.18144028	3.0901548	21	11 3.9	20.7
442097 2010 TX_{65}	16.3	X	348.46950	158.25633	200.57321	10.40847	0.0958357	0.17853120	3.1236328	21	9 24.5	20.1
442098 2010 TQ_{67}	16.3	X	254.97872	163.91839	345.69647	8.69385	0.0625292	0.19113012	2.9848096	21	11 25.5	20.6
442099 2010 TD_{69}	15.8	X	18.99043	314.82011	356.36482	8.78060	0.0787628	0.17450387	3.1715095	21	9 10.5	19.9
442100 2010 TR_{70}	16.6	X	297.96942	239.61119	202.31440	9.37034	0.0738274	0.18328300	3.0694078	21	10 29.4	20.6
442101 2010 TQ_{75}	16.6	X	5.37979	301.49709	50.00060	1.46702	0.1855268	0.17999792	3.1066410	21	10 21.3	20.1
442102 2010 TR_{75}	17.1	X	13.31174	126.46913	186.48596	4.74221	0.1559119	0.17378283	3.1802760	21	9 8.9	20.8
442103 2010 TW_{84}	16.3	X	60.87558	243.96612	24.03865	9.52302	0.2031219	0.17842861	3.1248299	21	10 2.9	20.7
442104 2010 TQ_{98}	17.2	X	340.53315	218.60069	154.50922	1.70597	0.1715336	0.17838328	3.1253593	21	10 1.5	20.6
442105 2010 TR_{98}	17.8	X	15.98308	323.97209	24.70174	3.40058	0.1629035	0.18322068	3.0701038	21	11 2.5	21.3
442106 2010 TS_{99}	16.4	X	355.29334	341.81824	24.47190	9.07901	0.0944939	0.18064544	3.0992127	21	10 16.9	20.2
442107 2010 TX_{99}	16.0	X	337.46886	172.57302	233.68098	9.95668	0.1365006	0.18153301	3.0891024	21	11 9.3	19.6
442108 2010 TC_{135}	16.2	X	333.74871	258.08741	135.61471	6.46653	0.1906678	0.17944528	3.1130160	21	10 18.4	19.5
442109 2010 TR_{144}	17.0	X	25.99637	99.36526	240.33890	5.65112	0.2964545	0.18286894	3.0740393	21	11 27.5	20.6
442110 2010 TM_{154}	16.1	X	296.58391	92.83241	337.59420	9.12786	0.2136819	0.17658407	3.1465529	21	9 19.9	20.0
442111 2010 TS_{157}	16.3	X	265.85609	73.38460	37.26475	9.82748	0.0508956	0.18158168	3.0885504	21	10 25.2	20.4
442112 2010 TH_{159}	16.2	X	185.81757	138.00173	38.02817	5.67748	0.0821108	0.17872039	3.1214279	21	10 10.2	21.0
442113 2010 TE_{161}	17.1	X	14.59883	205.64420	127.89398	2.03412	0.2102299	0.17952300	3.1121174	21	10 17.9	20.5
442114 2010 TG_{161}	16.8	X	12.84452	257.69702	73.27985	2.62206	0.0232308	0.17490338	3.1666780	21	9 23.3	21.0
442115 2010 TE_{166}	15.6	X	41.32442	41.01695	284.71176	8.11210	0.1004689	0.18081181	3.0973112	21	10 30.2	19.9
442116 2010 TA_{169}	16.2	X	28.04460	78.53464	280.30492	9.46316	0.0702825	0.18962263	3.0006080	21	11 21.7	20.4
442117 2010 TK_{173}	16.6	X	359.43949	6.70327	341.08524	8.73588	0.2205280	0.17641078	3.1486132	21	10 3.3	19.8
442118 2010 TP_{174}	16.4	X	323.25351	14.34640	21.67096	6.97319	0.2785894	0.17381316	3.1799059	21	9 18.7	19.4
442119 2010 TR_{174}	15.6	X	315.84122	10.83815	62.80972	18.02997	0.2306668	0.18069804	3.0986112	21	11 4.2	18.9
442120 2010 TA_{177}	15.7	X	39.98377	86.03623	278.37615	14.33033	0.1313889	0.18938740	3.0030922	21	12 24.1	19.7
442121 2010 TR_{177}	15.9	X	324.66456	84.32318	302.16844	8.51507	0.1381923	0.17617878	3.1513767	21	9 16.6	19.8
442122 2010 TL_{178}	16.5	X	292.75999	66.88777	11.63864	6.65519	0.1265803	0.18006494	3.1058700	21	10 9.5	20.5
442123 2010 TT_{178}	15.9	X	77.25050	237.73339	19.16076	11.11786	0.1262931	0.17693034	3.1424461	21	9 28.2	20.4
442124 2010 TQ_{179}	16.0	X	99.40062	238.42357	14.93294	11.80832	0.0278448	0.17895202	3.1187338	21	10 5.8	20.3
442125 2010 TS_{184}	15.5	X	225.31865	268.56981	218.30464	7.95642	0.0340195	0.17421947	3.1749600	21	9 24.5	20.1
442126 2010 TZ_{185}	16.0	X	256.07296	112.31229	336.82728	8.46508	0.0355928	0.17296303	3.1903172	21	9 15.4	20.4
442127 2010 UL_{11}	17.3	X	22.44828	324.53231	43.57857	4.59711	0.2601834	0.18639301	3.0351696	21	12 22.8	20.9
442128 2010 UY_{26}	16.7	X	332.18626	346.44653	49.39992	4.99693	0.2746777	0.17490809	3.1666212	21	10 11.2	19.5
442129 2010 UA_{27}	15.7	X	15.15942	292.65955	49.55901	13.45004	0.1026478	0.17342949	3.1845941	21	10 19.6	19.8
442130 2010 UK_{31}	16.1	X	290.08611	84.22809	359.84057	15.80452	0.2331166	0.17410265	3.1763800	21	9 25.8	20.0
442131 2010 UB_{33}	16.3	X	0.65222	106.50222	254.61628	7.05031	0.1894849	0.17805461	3.1292041	21	10 22.7	19.9
442132 2010 UE_{33}	16.0	X	23.66920	91.26354	235.82842	15.07766	0.1770650	0.17705911	3.1409224	21	10 16.3	19.9
442133 2010 UX_{37}	18.1	X	110.69661	95.26398	222.29933	20.03859	0.0953694	0.38172194	1.8820795	21	—	—
442134 2010 UW_{42}	16.8	X	37.36616	142.60988	187.32030	4.99487	0.1559534	0.18170030	3.0872061	21	11 11.0	20.9
442135 2010 UK_{69}	15.7	X	357.15831	94.69372	247.64950	9.52919	0.0650949	0.17304760	3.1892776	21	9 11.8	20.1
442136 2010 US_{78}	15.9	X	14.58541	331.03678	353.03584	11.20793	0.1345812	0.17193412	3.2030324	21	9 23.3	19.6
442137 2010 UQ_{82}	16.1	X	348.73532	115.61000	241.90122	10.19383	0.1651319	0.17292397	3.1907975	21	9 19.9	19.9
442138 2010 UR_{82}	16.5	X	13.07568	13.95132	3.06760	4.64975	0.2121905	0.18351531	3.0668169	21	12 10.8	20.2
442139 2010 UW_{92}	15.6	X	358.48970	138.62652	234.58115	15.81075	0.1298515	0.17692644	3.1424923	21	10 30.9	19.5
442140 2010 UE_{93}	16.8	X	332.49507	56.90140	341.53423	5.15612	0.1584302	0.17540753	3.1606074	21	10 17.6	20.4
442141 2010 UX_{94}	16.0	X	353.67193	314.87421	68.45550	10.10504	0.1189183	0.17922432	3.1155741	21	11 8.2	19.8
442142 2010 UJ_{98}	16.1	X	349.94966	44.28009	344.28021	10.18657	0.0821347	0.17916119	3.1163060	21	11 1.1	20.3
442143 2010 UF_{99}	16.5	X	15.70100	126.72715	236.84914	4.26398	0.1699812	0.18048560	3.1010422	21	11 21.9	20.3
442144 2010 VA_{31}	16.2	X	339.83156	179.43838	206.48361	9.11768	0.1392710	0.17524487	3.1625629	21	10 16.5	19.8
442145 2010 VZ_{48}	15.4	X	283.89562	164.94884	267.68282	10.01974	0.0568230	0.17082665	3.2168611	21	9 23.1	20.0
442146 2010 VH_{59}	16.0	X	306.95090	114.63614	313.62330	8.46698	0.0442450	0.17795856	3.1303300	21	10 21.8	20.5
442147 2010 VK_{59}	16.3	X	245.17005	115.88399	347.45345	10.47600	0.0531107	0.16986439	3.2289983	21	9 17.5	20.9
442148 2010 VC_{62}	18.7	X	350.97426	104.55627	261.71303	4.71292	0.2180710	0.36029496	1.9559778	21	12 7.1	19.6
442149 2010 VB_{106}	15.9	X	2.36870	131.74134	221.28030	17.28548	0.1999283	0.17460632	3.1702687	21	10 15.7	19.4
442150 2010 VV_{117}	15.7	X	342.56937	96.00541	278.16908	8.18243	0.1410472	0.17102842	3.2143305	21	9 30.6	19.7
442151 2010 VW_{121}	16.2	X	12.32005	323.48294	25.03409	9.70203	0.0991455	0.17466075	3.1696101	21	10 19.3	20.2
442152 2010 VV_{183}	15.9	X	22.96065	289.18074	79.58115	11.58099	0.1861426	0.18308401	3.0716315	21	12 12.5	19.5
442153 2010 VO_{188}	16.1	X	32.55714	338.73069	343.83900	6.69960	0.0761850	0.17207190	3.2013224	21	10 10.6	20.5
442154 2010 VB_{191}	16.3	X	9.98955	75.58845	278.55632	14.83395	0.2455909	0.17884114	3.1200228	21	11 5.6	19.9
442155 2010 VA_{195}	17.4	X	97.31442	59.72302	242.07907	19.55356	0.0726894	0.37134541	1.9169789	21	—	—
442156 2010 VC_{198}	16.7	X	18.77112	93.39243	280.85402	12.05666	0.2453846	0.18283178	3.0744558	21	12 22.1	20.3
442157 2010 VT_{198}	16.0	X	344.11402	332.07661	52.06726	6.25584	0.1371388	0.17515562	3.1636371	21	10 23.3	19.6
442158 2010 VF_{201}	15.5	X	291.24406	5.17263	84.74202	18.68048	0.1648642	0.17518206	3.1633188	21	10 25.6	19.8
442159 2010 VD_{203}	16.0	X	357.95845	33.24992	351.77267	9.67560	0.0891663	0.18148111	3.0896913	21	11 10.0	20.1
442160 2010 VY_{203}	16.0	X	65.11628	314.83761	355.54704	13.88458	0.1288248	0.18295376	3.0730891	21	11 12.4	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442161 2010 VB_{204}	16.1	X	353.16381	41.32030	328.73405	9.71711	0.1021566	0.17867856	3.1219151	21	10 13.5	20.1
442162 2010 VG_{204}	16.2	X	264.90736	273.40840	233.87279	10.26519	0.0624451	0.18642501	3.0348223	21	12 6.6	20.3
442163 2010 VN_{204}	16.7	X	8.51595	92.96250	267.68834	6.73682	0.1510915	0.18137123	3.0909391	21	11 2.5	20.4
442164 2010 VM_{205}	16.2	X	51.16250	342.29187	343.51223	5.84457	0.0695669	0.18226540	3.0808217	21	11 8.7	20.6
442165 2010 VU_{205}	16.9	X	313.59599	16.66259	3.10558	1.79337	0.1230610	0.16781398	3.2552471	21	8 26.0	20.8
442166 2010 VK_{206}	16.1	X	343.71875	131.24339	251.52094	8.40361	0.0844845	0.17858899	3.1229589	21	10 16.8	20.1
442167 2010 VR_{206}	16.7	X	348.38146	100.39426	276.43148	3.90868	0.1957452	0.17646091	3.1480167	21	10 19.9	20.1
442168 2010 VJ_{210}	16.3	X	8.64908	67.92976	287.41541	7.95297	0.1419688	0.17748970	3.1358403	21	10 23.4	20.2
442169 2010 VG_{212}	16.2	X	358.74123	45.05008	51.24599	10.91828	0.0768826	0.19140329	2.9819690	21	—	—
442170 2010 VE_{220}	16.0	X	355.52394	272.65807	132.05643	11.12729	0.2182136	0.18232534	3.0801464	21	12 17.4	19.4
442171 2010 WV_{11}	16.3	X	311.60158	149.07854	277.69623	12.18678	0.0872921	0.17603124	3.1531373	21	10 21.8	20.7
442172 2010 WB_{50}	17.4	X	26.26864	140.76156	257.06926	18.52988	0.1012443	0.37258191	1.9127353	21	—	—
442173 2010 WV_{51}	14.2	X	311.24539	183.15359	264.75384	7.40243	0.0880637	0.08373236	5.1745647	21	11 3.6	20.7
442174 2010 WY_{61}	16.2	X	328.14549	322.00680	69.52880	6.37179	0.1610748	0.16944596	3.2343119	21	10 4.6	19.9
442175 2010 WR_{74}	15.7	X	32.58437	236.41930	120.49904	11.48143	0.1047662	0.18360151	3.0658569	21	12 2.4	19.9
442176 2010 XQ_{1}	16.0	X	340.96668	212.28680	217.16536	8.01313	0.0829750	0.18262270	3.0768020	21	12 14.1	19.9
442177 2010 XC_{24}	19.9	X	261.36250	298.33795	269.40053	38.94960	0.0632504	0.74967214	1.2001121	21	—	—
442178 2010 XH_{40}	15.1	X	342.31113	288.13801	88.11084	18.29691	0.0888875	0.16948931	3.2337605	21	10 17.8	19.6
442179 2010 XG_{45}	16.4	X	5.10624	253.41328	116.15092	16.19539	0.2664030	0.17853475	3.1235913	21	11 27.9	19.9
442180 2010 XM_{83}	15.8	X	282.47351	261.97461	235.29936	14.53825	0.1890051	0.17731887	3.1378541	21	11 28.8	19.8
442181 2011 AC_{16}	17.8	X	298.33175	119.72864	315.74970	16.59472	0.0644258	0.35047267	1.9923545	21	11 19.0	20.1
442182 2011 AL_{75}	16.9	X	342.69506	39.24937	130.36896	22.69761	0.2211871	0.28530385	2.2852355	21	—	—
442183 2011 CX_{117}	15.1	X	132.24585	98.48990	21.44542	8.71398	0.1193099	0.12439096	3.9744482	21	6 8.4	21.1
442184 2011 DB_{23}	17.8	X	307.37979	121.39436	154.09361	6.14781	0.1952419	0.29232335	2.2485043	21	3 6.8	20.7
442185 2011 EY_{9}	18.4	X	31.74643	224.32015	348.32180	7.26397	0.0560891	0.30357797	2.1925822	21	5 6.4	20.6
442186 2011 EP_{45}	18.1	X	15.47849	68.33774	161.10297	8.00783	0.1298732	0.30143152	2.2029786	21	5 10.3	19.9
442187 2011 EB_{50}	17.7	X	346.88773	105.96012	93.89649	6.97989	0.1970311	0.28844850	2.2685962	21	1 16.4	19.9
442188 2011 ED_{53}	18.1	X	346.77040	168.68357	78.41834	6.01296	0.1614829	0.29492011	2.2352861	21	4 5.6	20.1
442189 2011 ER_{54}	17.6	X	283.15687	141.59122	64.40996	2.96400	0.1608744	0.27308039	2.3529302	21	—	—
442190 2011 EC_{72}	17.9	X	258.69726	228.33157	82.41459	4.45266	0.0459092	0.29004439	2.2602670	21	3 16.2	20.8
442191 2011 EG_{74}	17.9	X	51.23473	231.21282	337.65470	5.93947	0.0563770	0.30577856	2.1820500	21	6 5.9	20.1
442192 2011 EG_{78}	17.8	X	16.45833	144.69948	71.76498	6.03023	0.1219473	0.29897242	2.2150420	21	4 20.4	19.5
442193 2011 EB_{82}	18.3	X	31.51110	229.12686	354.09846	6.45080	0.0782135	0.30762553	2.1733073	21	5 25.5	20.5
442194 2011 FP_{7}	17.8	X	330.97871	47.23564	192.69958	7.32605	0.1214171	0.28868139	2.2673759	21	2 28.2	20.3
442195 2011 FP_{13}	18.2	X	207.83420	231.71348	27.07908	6.00183	0.1139427	0.26177721	2.4201827	21	—	—
442196 2011 FP_{56}	18.0	X	255.01596	165.88617	120.11288	3.89507	0.2326732	0.27509766	2.3414135	21	1 26.3	21.7
442197 2011 FS_{56}	17.2	X	325.19620	152.17789	63.51684	7.39529	0.0862904	0.28087895	2.3091736	21	1 28.3	20.0
442198 2011 FW_{56}	18.2	X	278.26460	49.41854	218.62709	1.93475	0.1917575	0.28060032	2.3107020	21	1 25.7	21.8
442199 2011 FH_{67}	18.1	X	277.71831	188.00326	108.58273	6.54255	0.2085926	0.29054498	2.2576700	21	3 2.3	21.5
442200 2011 FZ_{71}	17.8	X	327.82841	118.84093	125.09511	5.05599	0.1707904	0.29199745	2.2501770	21	2 23.4	20.3
442201 2011 FA_{147}	17.7	X	293.15023	292.27635	318.74567	6.82910	0.1241635	0.28291513	2.2980807	21	1 27.4	20.6
442202 2011 GV_{30}	18.0	X	350.39989	234.33306	35.96834	9.08599	0.0596397	0.30196191	2.2003982	21	5 26.1	20.1
442203 2011 GW_{31}	18.2	X	264.05475	336.33131	300.12991	1.79503	0.2047108	0.27588618	2.3369500	21	1 23.5	22.0
442204 2011 GZ_{47}	18.9	X	8.14164	200.77689	350.72872	1.34231	0.1923488	0.28943872	2.2634190	21	2 12.6	20.7
442205 2011 GL_{52}	17.9	X	350.93179	56.88470	192.27675	2.43792	0.2276189	0.29604761	2.2296071	21	4 2.5	19.4
442206 2011 GM_{67}	17.6	X	11.85798	62.42272	103.08907	6.75821	0.1159476	0.28393678	2.2925648	21	1 23.1	19.8
442207 2011 GX_{69}	18.0	X	355.05677	173.97000	20.64592	3.45854	0.1333138	0.28487519	2.2875274	21	2 3.9	20.4
442208 2011 GL_{72}	18.1	X	350.14705	115.36207	127.32044	8.18495	0.0963994	0.29416711	2.2390991	21	4 15.3	20.4
442209 2011 GJ_{77}	18.2	X	289.92406	225.37824	46.24281	4.18561	0.1400363	0.28267731	2.2993694	21	2 19.2	21.3
442210 2011 GK_{85}	17.3	X	302.13453	47.23179	126.67311	6.06686	0.0851093	0.26602833	2.3943306	21	—	—
442211 2011 HP_{5}	17.8	X	259.03074	95.33693	155.12060	9.07634	0.2516556	0.26877959	2.3779635	21	—	—
442212 2011 HN_{12}	18.2	X	317.18438	67.25521	137.40358	4.26676	0.1772377	0.27457028	2.3444107	21	—	—
442213 2011 HR_{14}	18.2	X	295.89564	70.45591	197.75159	6.90349	0.1492143	0.28423290	2.2909722	21	2 15.9	21.3
442214 2011 HS_{17}	18.0	X	264.64422	342.44648	231.00086	1.71561	0.1487108	0.26627196	2.3928699	21	—	—
442215 2011 HZ_{17}	18.4	X	352.55016	343.16658	228.21282	0.90134	0.0871850	0.28963918	2.2623746	21	2 27.9	20.6
442216 2011 HD_{18}	18.1	X	331.84618	81.22689	172.67654	3.21275	0.1493376	0.29247644	2.2477196	21	3 18.8	20.2
442217 2011 HR_{25}	17.9	X	29.05189	97.72126	99.12771	6.39841	0.0351352	0.29275641	2.2462863	21	4 15.2	20.4
442218 2011 HB_{37}	17.7	X	286.93696	238.45108	68.31808	6.12038	0.1307094	0.29060279	2.2573706	21	4 5.2	20.7
442219 2011 HZ_{48}	17.5	X	264.31625	216.38469	117.31440	7.21776	0.1424007	0.29114163	2.2545844	21	4 14.0	20.7
442220 2011 HT_{63}	17.6	X	253.15589	106.87085	189.52626	6.28737	0.1533275	0.28162701	2.3050827	21	2 7.6	21.1
442221 2011 HB_{100}	18.3	X	300.24650	222.61960	48.81489	7.16974	0.0923046	0.28786625	2.2716542	21	3 11.5	21.1
442222 2011 JA_{29}	17.7	X	297.81952	159.40025	88.97862	6.35830	0.1119189	0.27666300	2.3325735	21	2 2.0	20.8
442223 2011 KX	17.8	X	213.22282	219.07913	104.05763	7.24571	0.2590812	0.26765393	2.3846261	21	2 9.7	22.0
442224 2011 KS_{6}	18.0	X	283.51220	225.84175	60.22648	6.78661	0.1661338	0.28158959	2.3052869	21	3 1.6	21.3
442225 2011 KQ_{7}	17.6	X	278.08062	157.53061	84.96814	3.68869	0.1903039	0.27037224	2.3686159	21	—	—
442226 2011 KG_{26}	17.8	X	271.33151	173.42395	65.46819	6.19698	0.1095014	0.26657599	2.3910502	21	—	—
442227 2011 KA_{31}	17.8	X	249.84112	182.69634	108.22538	2.30105	0.1822882	0.27154449	2.3617942	21	1 30.8	21.5
442228 2011 KH_{31}	17.7	X	258.28208	190.45002	68.85981	5.71815	0.2100995	0.26656952	2.3910889	21	—	—
442229 2011 KP_{44}	18.1	X	358.78501	68.81383	104.22207	3.62508	0.1642026	0.27852254	2.3221797	21	1 5.3	20.5
442230 2011 KW_{44}	18.2	X	272.16978	123.92797	156.53142	2.80718	0.1547696	0.27632958	2.3344494	21	2 8.4	21.5
442231 2011 KJ_{46}	18.1	X	355.77901	130.83774	40.77172	6.02284	0.1285843	0.27429257	2.3459929	21	1 5.9	20.8
442232 2011 LQ_{4}	17.2	X	176.62322	230.00651	114.11923	17.09314	0.2653405	0.25934844	2.4352691	21	2 8.9	21.4
442233 2011 LR_{9}	17.1	X	349.74735	111.33611	129.93509	7.35945	0.0673557	0.28753687	2.2733886	21	4 16.2	19.6
442234 2011 LA_{11}	18.0	X	356.16277	37.94407	139.59068	5.86602	0.1358373	0.27718884	2.3296225	21	1 11.8	20.5
442235 2011 LT_{14}	17.9	X	121.47455	47.30530	84.77908	8.61696	0.0215351	0.29698331	2.2249215	21	5 26.1	20.4
442236 2011 LC_{18}	18.1	X	249.28731	234.82602	30.32868	2.87606	0.2106106	0.26734536	2.3864607	21	—	—
442237 2011 LF_{19}	17.1	X	154.02382	54.44428	283.72904	13.04849	0.2121120	0.23908654	2.5709835	21	1 10.2	21.0
442238 2011 LL_{19}	15.8	X	172.22836	127.71058	147.14543	30.00846	0.1977523	0.23669088	2.5883025	21	—	—
442239 2011 LK_{28}	17.8	X	291.41523	200.22720	12.80807	2.15811	0.1575364	0.26838178	2.3803128	21	—	—
442240 2011 MT_{4}	17.1	X	103.74983	60.75679	314.79053	11.65658	0.2904869	0.22923792	2.6441032	21	1 15.0	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442241 2011 MM_6	17.0	X	236.03973	162.13982	118.14464	9.07921	0.2006713	0.26521065	2.3992495	21	1 6.3	20.8
442242 2011 MT_{10}	16.7	X	20.92133	228.86470	128.50228	15.89589	0.1233844	0.21358416	2.7717668	21	11 27.4	20.4
442243 2011 MD_{11}	18.1	X	168.51773	333.18420	15.89179	16.15743	0.4962216	0.24887585	2.5031154	21	2 26.0	23.4
442244 2011 OD_2	17.0	X	222.10103	294.41202	291.80403	12.30312	0.1474976	0.23732523	2.5836882	21	—	—
442245 2011 OA_4	17.3	X	164.03933	159.24433	130.18240	4.62883	0.2375565	0.24006299	2.5640072	21	—	—
442246 2011 OG_4	16.5	X	190.52616	186.17456	135.51516	12.28336	0.2020753	0.25369566	2.4713107	21	1 19.8	20.5
442247 2011 OS_{11}	17.2	X	224.94457	177.66525	129.12875	12.95550	0.1367851	0.26071436	2.4267558	21	1 30.1	20.9
442248 2011 OW_{15}	17.4	X	217.85704	15.63847	282.66567	1.89746	0.1627578	0.25451653	2.4659942	21	1 14.2	21.4
442249 2011 OE_{19}	17.2	X	187.13740	18.07977	310.16589	5.28970	0.1190709	0.25187149	2.4832286	21	1 21.0	20.9
442250 2011 OG_{23}	16.3	X	219.67457	243.43973	333.89804	29.79197	0.2876167	0.23420253	2.6066036	21	12 23.4	21.0
442251 2011 ON_{27}	17.3	X	153.44121	316.85414	50.19441	4.99953	0.2353314	0.25210811	2.4816746	21	2 16.5	21.2
442252 2011 OC_{56}	17.8	X	205.41092	67.48410	236.98604	1.61751	0.1940606	0.25517821	2.4617295	21	1 11.3	21.8
442253 2011 PR_1	18.9	X	146.66008	41.69240	270.87204	7.28667	0.3928601	0.23932069	2.5693063	21	—	—
442254 2011 PL_2	17.0	X	232.28569	276.79650	286.67124	10.28445	0.0810254	0.23080853	2.6320945	21	—	—
442255 2011 PL_3	16.1	X	104.89671	162.30031	115.11862	15.56082	0.0471021	0.21704926	2.7421877	21	11 22.7	20.3
442256 2011 PQ_7	18.3	X	139.85587	186.44889	161.21940	14.77110	0.2668388	0.23953452	2.5677770	21	1 13.2	22.4
442257 2011 PF_8	17.8	X	165.79986	333.25370	321.26408	4.54870	0.2717887	0.23849696	2.5752189	21	—	—
442258 2011 PH_8	16.8	X	139.78013	140.67267	162.91219	13.52301	0.0875812	0.22954938	2.6417109	21	—	—
442259 2011 PW_{13}	16.4	X	167.08006	12.39547	284.73351	14.04759	0.1009226	0.24026827	2.5625466	21	—	—
442260 2011 QH_6	18.1	X	115.78546	65.73149	295.65578	13.31378	0.2212020	0.23920494	2.5701351	21	—	—
442261 2011 QA_{13}	16.1	X	168.88946	330.50226	298.83629	12.09867	0.1512820	0.23268236	2.6179444	21	—	—
442262 2011 QR_{19}	17.2	X	117.80384	39.55657	310.01046	13.91495	0.0583533	0.23615250	2.5922349	21	—	—
442263 2011 QN_{25}	17.6	X	116.02841	333.36985	8.10176	2.58896	0.1871946	0.23143182	2.6273665	21	—	—
442264 2011 QP_{35}	16.5	X	67.16002	257.55004	83.24206	8.69190	0.2809079	0.21694002	2.7431082	21	—	—
442265 2011 QF_{38}	17.0	X	203.66404	359.71348	327.38169	9.97015	0.0754262	0.25512558	2.4620680	21	2 4.1	20.6
442266 2011 QS_{39}	17.2	X	159.00940	123.20059	169.17933	6.99821	0.1658280	0.23651142	2.5896116	21	—	—
442267 2011 QD_{40}	17.9	X	175.29424	42.85068	247.87425	3.63220	0.2726519	0.24248103	2.5469331	21	—	—
442268 2011 QL_{45}	16.9	X	129.22845	128.44223	169.78121	13.22707	0.2378037	0.22952725	2.6418808	21	—	—
442269 2011 QO_{51}	17.1	X	145.79552	53.71501	282.36046	12.25931	0.2880778	0.24018848	2.5631140	21	1 7.7	21.0
442270 2011 QK_{54}	17.3	X	158.15615	55.04176	246.22097	4.04294	0.2380203	0.23652424	2.5895181	21	—	—
442271 2011 QJ_{55}	16.4	X	33.46534	84.95087	242.88303	5.07989	0.0953906	0.20563821	2.8427162	21	10 27.3	20.0
442272 2011 QB_{62}	17.0	X	175.26478	283.38634	335.84232	12.30134	0.2531519	0.23135036	2.6279833	21	—	—
442273 2011 QX_{69}	17.8	X	231.78407	349.55543	340.76639	4.58079	0.1810344	0.26481839	2.4016181	21	3 4.6	21.7
442274 2011 QR_{72}	17.0	X	185.39310	196.39357	147.21835	7.24808	0.2019266	0.25339068	2.4732933	21	2 10.9	21.0
442275 2011 QR_{91}	17.6	X	50.55292	113.20251	291.42791	4.84769	0.1677038	0.22576458	2.6711535	21	—	—
442276 2011 QN_{92}	17.4	X	92.68684	120.46904	303.60299	8.01839	0.1554602	0.24308391	2.5427202	21	2 4.8	20.4
442277 2011 QH_{97}	15.8	X	286.42688	87.69249	262.17475	13.39357	0.1603742	0.17823637	3.1270765	21	6 2.7	20.2
442278 2011 RL	17.7	X	177.77403	286.32311	71.38624	2.19474	0.3041423	0.25183181	2.4834895	21	2 27.7	22.0
442279 2011 RS_1	17.2	X	143.25997	7.09548	285.41177	2.23080	0.1357323	0.22833148	2.6510964	21	—	—
442280 2011 RE_2	17.8	X	100.37457	182.87167	173.42212	3.96265	0.2076340	0.22907149	2.6453838	21	—	—
442281 2011 RL_3	16.6	X	8.75742	334.61588	131.54585	14.38651	0.2071827	0.22208278	2.7005950	21	—	—
442282 2011 RJ_{10}	17.2	X	90.88918	24.88703	318.76370	5.35649	0.0182768	0.22427873	2.6829381	21	—	—
442283 2011 RL_{10}	17.2	X	16.16320	81.03561	317.67101	5.38435	0.0700103	0.21696980	2.7428571	21	—	—
442284 2011 RO_{15}	17.9	X	80.38630	178.55141	209.39369	7.61649	0.1478277	0.23291496	2.6162011	21	—	—
442285 2011 SD_1	17.2	X	54.01545	81.30546	346.38891	13.00044	0.1561651	0.23258672	2.6186619	21	—	—
442286 2011 SD_3	18.1	X	173.17567	104.30443	199.64405	4.21899	0.1592839	0.23914289	2.5705797	21	—	—
442287 2011 SK_7	16.5	X	91.74607	9.69543	11.40801	12.69280	0.1806578	0.22906413	2.6454405	21	—	—
442288 2011 SX_8	16.5	X	50.95952	166.29008	179.74439	10.03194	0.1839598	0.21070075	2.7969970	21	12 26.1	20.6
442289 2011 SD_{12}	16.6	X	92.49961	191.02374	172.90797	15.01037	0.1871140	0.22881045	2.6473954	21	—	—
442290 2011 SA_{15}	17.4	X	195.66199	90.50978	282.89975	5.09139	0.1339559	0.26102919	2.4248042	21	3 23.0	21.2
442291 2011 SZ_{20}	17.0	X	86.89986	110.51708	298.27948	11.69134	0.2580573	0.23235406	2.6204097	21	1 25.1	19.8
442292 2011 SB_{21}	16.6	X	192.01856	2.44620	289.48658	11.59770	0.2486939	0.24036102	2.5618873	21	—	—
442293 2011 SL_{23}	17.1	X	96.89650	350.92159	7.18581	12.90062	0.1483519	0.22551892	2.6730930	21	—	—
442294 2011 SU_{24}	16.2	X	249.84599	254.11853	165.81289	18.42169	0.2403104	0.17780576	3.1321232	21	7 9.2	21.5
442295 2011 SY_{25}	17.2	X	225.70433	316.30807	355.96550	5.88138	0.1277423	0.25325216	2.4741951	21	2 9.3	21.0
442296 2011 SJ_{30}	17.8	X	151.76492	176.68931	180.60070	3.87885	0.1745303	0.23857391	2.5746651	21	1 26.9	21.6
442297 2011 SJ_{36}	17.1	X	114.61658	156.11842	182.80815	10.96097	0.1781536	0.22626402	2.6672213	21	—	—
442298 2011 SQ_{40}	16.4	X	0.49508	149.54530	265.06259	7.73303	0.0815654	0.21059940	2.7978942	21	12 30.5	20.0
442299 2011 SR_{45}	17.8	X	216.60564	20.67695	257.40040	3.02281	0.1181104	0.24390229	2.5370292	21	—	—
442300 2011 SX_{51}	17.0	X	112.85406	137.17991	209.48901	11.20779	0.2913944	0.22745076	2.6579356	21	—	—
442301 2011 SF_{54}	16.0	X	339.52051	138.79980	132.51952	6.16564	0.1105260	0.16977958	3.2300736	21	5 18.4	20.1
442302 2011 SB_{57}	16.6	X	2.98821	109.98308	175.95156	10.48258	0.0294673	0.17712552	3.1401372	21	7 11.8	21.0
442303 2011 SO_{57}	17.4	X	146.69830	157.53539	208.28125	3.67573	0.2386641	0.23758752	2.5817863	21	2 7.6	21.4
442304 2011 SS_{59}	17.8	X	119.70418	61.32332	301.86061	2.62637	0.1847586	0.23615931	2.5921850	21	1 1.1	21.1
442305 2011 SF_{60}	17.1	X	147.62368	24.59704	319.97433	14.34957	0.1446495	0.24022963	2.5628214	21	1 6.5	20.9
442306 2011 SN_{62}	16.7	X	147.01128	42.37759	257.95515	12.37371	0.1474547	0.23209069	2.6223918	21	—	—
442307 2011 SC_{67}	16.8	X	77.55868	33.27070	343.90862	3.90213	0.1587690	0.22229756	2.6988552	21	—	—
442308 2011 SC_{72}	16.7	X	153.50201	323.55940	337.75552	10.70972	0.1894208	0.23315416	2.6144114	21	—	—
442309 2011 SC_{73}	17.5	X	179.90778	308.87585	346.06666	8.45370	0.1580277	0.23788911	2.5796038	21	—	—
442310 2011 SX_{78}	17.5	X	133.91210	127.48253	184.42938	3.20285	0.1424362	0.22854753	2.6494254	21	—	—
442311 2011 SK_{79}	17.1	X	134.25143	122.94336	180.62931	13.19080	0.1906208	0.22778630	2.6553248	21	—	—
442312 2011 SL_{96}	16.4	X	92.80231	54.64390	317.28806	12.50989	0.1915140	0.22495518	2.6775569	21	—	—
442313 2011 SG_{97}	17.3	X	69.82381	31.93402	21.88778	9.48715	0.2393541	0.22855129	2.6493963	21	—	—
442314 2011 SS_{100}	17.1	X	164.17878	166.97060	60.64696	1.03622	0.0103981	0.21036006	2.8000161	21	11 23.7	20.8
442315 2011 SO_{105}	17.9	X	157.13799	16.23168	348.78283	7.67456	0.2806551	0.24334332	2.5409128	21	2 20.9	22.1
442316 2011 SM_{111}	16.6	X	59.45282	57.52239	265.17989	3.54231	0.1607708	0.21103265	2.7940636	21	12 4.5	20.4
442317 2011 SA_{115}	17.0	X	73.97460	224.45454	192.50450	12.13382	0.2866190	0.22928446	2.6437454	21	1 15.8	19.7
442318 2011 SW_{118}	16.5	X	154.30064	113.17028	113.22216	11.48871	0.0460272	0.20222197	2.8746423	21	11 12.9	20.9
442319 2011 SF_{121}	17.5	X	82.95633	43.59416	9.96832	8.70273	0.2636770	0.23193438	2.6235699	21	1 29.9	20.3
442320 2011 SH_{126}	16.8	X	48.15403	333.30964	38.09399	4.55722	0.0809801	0.21396981	2.7684354	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442321 2011 SA_{129}	17.6	X	166.26670	148.07211	157.34353	4.42890	0.2531914	0.23501701	2.6005778	21	—	—
442322 2011 SZ_{129}	17.3	X	30.10961	350.58064	42.38781	5.45324	0.1295720	0.21297785	2.7770248	21	—	—
442323 2011 SM_{132}	16.9	X	117.57885	275.64356	40.74179	11.71560	0.2051062	0.21975541	2.7196290	21	—	—
442324 2011 SP_{133}	17.6	X	153.58272	264.76668	28.30962	13.66829	0.3166320	0.22942623	2.6426562	21	—	—
442325 2011 SY_{133}	17.3	X	104.32082	256.94494	149.11394	2.68660	0.2128214	0.23556713	2.5965275	21	2 9.2	20.5
442326 2011 SR_{134}	16.8	X	103.95240	212.38225	176.74899	29.37475	0.2271260	0.23379570	2.6096266	21	1 18.3	20.7
442327 2011 SO_{144}	16.8	X	332.22809	61.00946	20.88134	8.87171	0.1510143	0.21055167	2.7983171	21	12 25.9	19.9
442328 2011 SQ_{144}	17.5	X	50.57964	20.46808	32.28610	3.18915	0.1303320	0.22588393	2.6702125	21	—	—
442329 2011 SY_{159}	17.1	X	120.35499	59.29109	295.69293	4.15574	0.1490896	0.23151790	2.6267152	21	—	—
442330 2011 SY_{162}	17.0	X	95.45067	91.04779	275.75721	5.16319	0.0555932	0.22564006	2.6721361	21	—	—
442331 2011 SD_{163}	16.2	X	148.03214	48.93856	220.79166	13.61896	0.0997905	0.21577584	2.7529659	21	12 25.0	20.6
442332 2011 SK_{166}	17.2	X	99.36159	127.68286	218.18191	4.23438	0.1262714	0.22134850	2.7065641	21	—	—
442333 2011 SX_{173}	17.5	X	148.23415	88.39623	264.26129	4.35584	0.2856111	0.24057658	2.5603567	21	1 28.4	21.6
442334 2011 SU_{174}	17.0	X	130.44390	185.13792	184.30186	8.58053	0.1511836	0.23714235	2.5850164	21	1 15.5	20.7
442335 2011 SJ_{175}	17.0	X	89.88205	341.72195	19.01095	6.88537	0.2057390	0.22509252	2.6764677	21	—	—
442336 2011 SN_{177}	17.5	X	124.54717	195.44746	154.50747	5.05456	0.1915037	0.23091995	2.6312478	21	—	—
442337 2011 SN_{178}	17.5	X	161.36526	18.88260	290.44104	3.16499	0.1910105	0.23322654	2.6138705	21	—	—
442338 2011 SK_{179}	16.3	X	300.55101	117.75534	6.57787	5.96659	0.0355752	0.21244276	2.7816860	21	—	—
442339 2011 SR_{179}	17.0	X	60.76947	165.90957	207.39648	7.95209	0.1956006	0.21717097	2.7411631	21	—	—
442340 2011 SP_{183}	16.8	X	7.33094	14.50051	105.53438	2.75731	0.0560259	0.22801428	2.6535545	21	—	—
442341 2011 SB_{193}	17.7	X	145.35119	134.06738	197.79124	6.42557	0.0930602	0.23505812	2.6002746	21	—	—
442342 2011 SR_{202}	17.7	X	149.59046	117.91225	194.82096	12.20101	0.1934588	0.23574869	2.5951942	21	—	—
442343 2011 SR_{207}	17.8	X	92.19398	36.31958	339.90998	6.02969	0.1626861	0.23251394	2.6192084	21	—	—
442344 2011 SW_{207}	17.7	X	117.13408	25.64499	344.89823	8.61275	0.1736776	0.23776955	2.5804685	21	1 6.5	21.1
442345 2011 SZ_{207}	17.6	X	196.41648	58.84327	270.82157	1.67526	0.2047214	0.25325538	2.4741741	21	2 3.3	21.8
442346 2011 SW_{208}	17.8	X	118.14307	241.29803	122.06967	3.31504	0.2380479	0.23216177	2.6218564	21	1 7.8	21.1
442347 2011 SF_{209}	17.5	X	143.90036	256.45127	79.81093	5.08872	0.2422064	0.23730888	2.5838069	21	1 2.2	21.4
442348 2011 ST_{212}	17.2	X	177.76370	5.47900	309.45118	14.18203	0.1047604	0.24169324	2.5524645	21	—	—
442349 2011 SH_{221}	17.7	X	124.57733	220.67677	144.51795	4.72841	0.2416101	0.23607320	2.5928154	21	1 17.0	21.2
442350 2011 SJ_{224}	16.3	X	261.77858	127.75915	18.66471	12.55966	0.0949333	0.20362344	2.8614371	21	11 27.1	20.3
442351 2011 SF_{228}	17.7	X	161.39128	10.34060	299.75014	4.57775	0.1804527	0.23290108	2.6163051	21	—	—
442352 2011 SP_{228}	16.8	X	142.09978	324.45372	358.96017	13.65016	0.0827242	0.22766795	2.6562450	21	—	—
442353 2011 SF_{229}	17.5	X	144.70859	23.05838	299.72477	2.61138	0.2106181	0.22919612	2.6444247	21	—	—
442354 2011 SW_{229}	16.7	X	111.87410	344.77201	4.36701	13.77799	0.1842760	0.23214098	2.6220130	21	—	—
442355 2011 SE_{230}	16.8	X	36.09776	24.39854	37.23447	3.01554	0.2226174	0.22168546	2.7038208	21	—	—
442356 2011 SG_{230}	18.0	X	104.78628	270.42327	132.11847	4.70423	0.2772783	0.23652791	2.5894913	21	2 15.5	21.1
442357 2011 SV_{230}	17.0	X	6.75276	202.55449	226.79531	3.82577	0.0851784	0.21307801	2.7761545	21	—	—
442358 2011 SL_{231}	16.6	X	154.27492	326.80666	356.21823	14.32260	0.1054763	0.23175328	2.6249364	21	—	—
442359 2011 SC_{233}	16.8	X	110.10306	219.15325	182.13700	5.58241	0.2656746	0.23492040	2.6012907	21	2 17.3	20.3
442360 2011 SR_{233}	18.2	X	86.23908	172.87260	241.54347	4.02752	0.2783558	0.23184392	2.6242523	21	2 3.4	21.1
442361 2011 SD_{234}	16.9	X	73.75124	93.71792	318.81084	6.55668	0.1916157	0.23098704	2.6307382	21	—	—
442362 2011 ST_{241}	17.5	X	48.93731	235.23953	158.36561	3.75198	0.1250323	0.22171835	2.7035535	21	—	—
442363 2011 SN_{245}	17.6	X	111.73417	172.03866	191.83092	7.62100	0.2047878	0.23212533	2.6221308	21	—	—
442364 2011 SD_{250}	18.0	X	103.56149	132.27026	271.35785	3.44911	0.2517064	0.23784580	2.5799169	21	2 9.5	21.2
442365 2011 SJ_{250}	17.4	X	137.34748	104.48196	226.95239	7.09660	0.2527708	0.23297576	2.6157459	21	—	—
442366 2011 SP_{250}	17.4	X	63.28702	16.01825	17.09608	4.43900	0.1556623	0.22418883	2.6836553	21	—	—
442367 2011 SD_{256}	17.8	X	130.53990	175.90436	171.45898	2.68515	0.2186885	0.23185769	2.6241484	21	—	—
442368 2011 SO_{256}	17.5	X	152.54593	291.53521	354.98787	3.56123	0.2175886	0.22995574	2.6385979	21	—	—
442369 2011 SB_{257}	17.6	X	355.61185	103.54347	315.97522	4.32575	0.1592785	0.20951946	2.8075003	21	—	—
442370 2011 SJ_{259}	16.1	X	162.82012	30.25106	224.72016	9.01959	0.0755764	0.21220641	2.7837510	21	12 23.0	20.3
442371 2011 SS_{272}	17.5	X	215.13770	324.49382	80.20527	3.50544	0.1777040	0.27088702	2.3656142	21	5 22.9	21.2
442372 2011 SF_{273}	16.8	X	194.89680	171.68662	129.42449	8.00937	0.1862907	0.24245583	2.5471096	21	—	—
442373 2011 SW_{273}	16.7	X	345.45997	301.82595	138.94604	8.49945	0.2072809	0.21219747	2.7838291	21	—	—
442374 2011 TS_{2}	17.4	X	103.85124	69.93971	336.91224	4.51430	0.2267233	0.23602822	2.5931447	21	2 12.3	20.6
442375 2011 TY_{2}	18.1	X	79.39324	321.92586	54.53487	2.97115	0.1475697	0.22441193	2.6818763	21	—	—
442376 2011 TJ_{3}	17.1	X	76.91928	351.95405	84.44892	5.45632	0.2789066	0.23232010	2.6206651	21	2 21.8	19.7
442377 2011 TB_{5}	17.4	X	100.70436	114.73920	271.92994	5.72588	0.2945783	0.23067671	2.6330972	21	1 22.9	20.6
442378 2011 TK_{17}	16.9	X	28.22799	314.12675	76.32407	6.04831	0.1272986	0.21304676	2.7764260	21	—	—
442379 2011 UQ_{1}	16.8	X	80.08166	108.14894	226.33175	11.44158	0.1161444	0.21293266	2.7774177	21	—	—
442380 2011 UH_{3}	17.6	X	59.72151	348.89119	52.86267	4.80967	0.3051984	0.22220909	2.6995715	21	—	—
442381 2011 UA_{9}	17.0	X	144.54051	121.44725	220.38539	3.63465	0.3323801	0.23471039	2.6028422	21	1 17.9	21.2
442382 2011 UF_{13}	16.4	X	335.74218	268.58964	209.83478	8.66190	0.1477649	0.21544003	2.7558259	21	—	—
442383 2011 US_{16}	16.9	X	30.05198	21.98547	49.30897	4.22346	0.1821228	0.21690091	2.7434379	21	—	—
442384 2011 UA_{19}	16.5	X	179.95474	76.24088	88.77739	6.55926	0.1072603	0.19028352	2.9936562	21	9 23.4	21.2
442385 2011 UD_{22}	16.8	X	16.56868	99.67180	320.70813	5.28226	0.0152017	0.21671200	2.7450320	21	—	—
442386 2011 UB_{24}	17.5	X	74.46905	108.33447	313.84356	1.34992	0.2013569	0.22920170	2.6443818	21	1 13.9	20.1
442387 2011 UR_{25}	16.8	X	56.19031	8.26626	47.28474	5.52033	0.1001688	0.22312129	2.6922086	21	—	—
442388 2011 UX_{26}	17.6	X	91.94346	255.68771	134.36328	1.46155	0.0710555	0.22705195	2.6610470	21	—	—
442389 2011 UH_{27}	17.2	X	77.91845	327.73277	63.40579	5.46994	0.0833634	0.22332400	2.6905792	21	—	—
442390 2011 UJ_{30}	16.9	X	21.82071	186.37226	223.27287	9.79277	0.1236104	0.20970449	2.8058486	21	—	—
442391 2011 UY_{35}	17.4	X	71.39867	322.57460	59.32420	5.97765	0.1644380	0.21786614	2.7353289	21	—	—
442392 2011 UL_{37}	17.1	X	134.82658	293.35595	51.10678	6.43754	0.2942893	0.23384088	2.6092904	21	1 10.5	21.1
442393 2011 UT_{39}	17.0	X	136.10680	319.07446	22.69932	13.48355	0.1608519	0.23235907	2.6203721	21	—	—
442394 2011 UR_{41}	16.8	X	153.69388	244.38657	25.22882	10.71288	0.1003290	0.21651418	2.7467038	21	—	—
442395 2011 UC_{42}	16.8	X	152.76323	292.69337	26.93146	14.74510	0.0755465	0.22939979	2.6428593	21	—	—
442396 2011 UK_{44}	16.6	X	356.67120	212.36568	215.75586	7.04258	0.2036593	0.20977082	2.8052571	21	—	—
442397 2011 UV_{44}	17.1	X	61.40284	9.82925	351.96970	2.95879	0.1049333	0.21440785	2.7646634	21	—	—
442398 2011 UA_{48}	17.1	X	79.22861	177.00952	226.61522	7.40159	0.1387270	0.22646035	2.6656795	21	—	—
442399 2011 UL_{49}	17.2	X	37.19802	187.01699	214.75709	4.25751	0.1059061	0.21410209	2.7672949	21	—	—
442400 2011 UQ_{54}	17.2	X	87.51982	331.23038	46.26527	2.41043	0.1002260	0.22070573	2.7118166	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442401 2011 UP_{56}	16.5	X	77.46589	157.80812	236.75655	6.97919	0.1298934	0.22269936	2.6956080	21	—	—
442402 2011 UF_{57}	17.3	X	112.08307	287.73678	73.64766	3.48036	0.2987801	0.22993379	2.6387658	21	1 7.6	20.6
442403 2011 UQ_{58}	17.2	X	31.92502	186.92681	190.24969	4.19394	0.0853788	0.20931709	2.8093095	21	12 26.8	20.9
442404 2011 UG_{66}	17.1	X	188.12258	193.34447	73.19725	7.76434	0.0522672	0.22257218	2.6966348	21	—	—
442405 2011 UO_{67}	17.7	X	167.60265	182.51285	148.94834	3.83529	0.2424482	0.23956476	2.5675610	21	1 16.8	21.8
442406 2011 UT_{72}	17.2	X	54.24742	196.76835	225.14392	5.01704	0.0903004	0.22294547	2.6936239	21	—	—
442407 2011 UH_{76}	17.2	X	91.89875	27.03781	315.81090	3.46504	0.0855562	0.21551523	2.7551848	21	—	—
442408 2011 UG_{81}	17.2	X	81.39024	137.25855	209.05858	3.49946	0.1184912	0.21321054	2.7750039	21	—	—
442409 2011 UJ_{81}	16.8	X	70.21589	258.86882	63.32787	2.88379	0.0943018	0.20304628	2.8668570	21	12 6.1	20.8
442410 2011 UF_{88}	16.0	X	20.25563	96.64672	237.75930	11.95091	0.0778996	0.18762328	3.0218871	21	10 9.6	20.1
442411 2011 UL_{98}	16.0	X	65.32899	350.04309	274.46969	8.03747	0.0799446	0.18419069	3.0593154	21	9 10.8	20.4
442412 2011 UL_{102}	17.2	X	108.00626	309.55221	23.98298	6.60763	0.0701380	0.21544065	2.7558207	21	—	—
442413 2011 UJ_{104}	17.1	X	150.98226	309.41881	2.43053	7.58242	0.1674818	0.22932098	2.6434648	21	—	—
442414 2011 UZ_{106}	16.5	X	124.55293	52.98669	313.15854	16.55378	0.1325435	0.23320045	2.6140654	21	1 6.4	20.1
442415 2011 UH_{108}	16.3	X	118.69215	300.29081	46.31442	15.11347	0.1471777	0.22649442	2.6654122	21	—	—
442416 2011 UV_{111}	16.5	X	40.60953	126.05182	263.38003	5.48294	0.0146016	0.21476793	2.7615723	21	—	—
442417 2011 UX_{112}	16.3	X	310.60721	120.50578	230.02454	12.69403	0.1649277	0.17543239	3.1603089	21	7 5.3	20.4
442418 2011 UP_{117}	17.5	X	88.98720	164.55654	261.32408	4.66146	0.3044821	0.23245872	2.6196232	21	2 26.6	20.6
442419 2011 US_{117}	17.4	X	93.15432	182.95379	211.10983	13.41940	0.1424088	0.23193950	2.6235313	21	—	—
442420 2011 UR_{120}	16.0	X	178.18684	12.45041	219.91659	11.18018	0.1083023	0.21033182	2.8002667	21	12 10.3	20.4
442421 2011 UN_{125}	16.9	X	207.39021	202.37190	17.93152	12.42476	0.0949439	0.21489598	2.7604752	21	12 28.4	21.2
442422 2011 UU_{125}	16.0	X	194.82185	295.01719	4.92579	14.24723	0.1168091	0.23598911	2.5934313	21	—	—
442423 2011 UE_{126}	16.6	X	93.91923	39.48076	332.72986	5.39872	0.0211942	0.22135633	2.7065003	21	—	—
442424 2011 UA_{129}	16.6	X	121.60712	244.28965	62.27102	9.84100	0.1289898	0.21324651	2.7746918	21	—	—
442425 2011 UE_{130}	17.1	X	119.12365	256.71751	44.43940	5.65148	0.1535482	0.21686763	2.7437185	21	—	—
442426 2011 US_{130}	16.6	X	82.70888	123.94581	301.22345	14.10087	0.1171267	0.23481275	2.6020857	21	1 19.4	19.5
442427 2011 UV_{131}	17.3	X	139.74262	25.72293	341.14740	5.55490	0.2216852	0.23644541	2.5900936	21	2 3.0	21.2
442428 2011 UW_{135}	17.9	X	125.77117	159.10343	191.99026	2.00909	0.2225997	0.23054887	2.6340705	21	—	—
442429 2011 UX_{138}	17.2	X	81.95593	339.71234	29.81859	3.18964	0.0892866	0.21863913	2.7288780	21	—	—
442430 2011 UE_{139}	17.4	X	60.40594	23.71862	9.22689	2.61606	0.0895078	0.21710691	2.7417023	21	—	—
442431 2011 UJ_{142}	17.2	X	32.99370	310.10582	121.07677	3.22630	0.1377987	0.22053541	2.7132126	21	—	—
442432 2011 UL_{144}	17.6	X	103.46622	332.05641	8.30029	6.68506	0.1598403	0.21629296	2.7485763	21	—	—
442433 2011 UV_{144}	14.8	X	213.46602	197.19466	249.25291	25.78067	0.0964411	0.17282143	3.1920596	21	7 12.1	20.1
442434 2011 UV_{148}	17.2	X	118.55822	103.67991	237.27727	1.77588	0.1991975	0.22462136	2.6802091	21	—	—
442435 2011 UC_{150}	17.2	X	127.03320	106.40502	214.83053	11.74743	0.1843983	0.22764919	2.6563909	21	—	—
442436 2011 UE_{157}	17.2	X	347.28151	341.74881	80.23609	3.28802	0.1382475	0.20166499	2.8799330	21	12 22.5	20.2
442437 2011 US_{157}	17.6	X	119.71318	260.55342	116.60161	2.36819	0.2229721	0.23103763	2.6303542	21	1 25.3	21.2
442438 2011 UC_{158}	15.7	X	335.30277	79.50296	239.49156	31.47216	0.0563098	0.16929420	3.2362446	21	7 6.6	20.5
442439 2011 UU_{159}	17.0	X	120.17861	292.97696	55.95032	6.23257	0.2923445	0.23083305	2.6319081	21	—	—
442440 2011 UO_{162}	17.1	X	114.66741	250.98651	90.15712	5.91405	0.1803833	0.22071815	2.7117148	21	—	—
442441 2011 UC_{164}	17.5	X	83.03274	197.90984	180.10654	10.17859	0.2892367	0.22373584	2.6872765	21	—	—
442442 2011 UD_{169}	17.1	X	160.21943	149.44743	169.80156	5.89628	0.4511822	0.23477825	2.6023406	21	1 11.6	22.1
442443 2011 UZ_{186}	17.3	X	182.60019	185.78860	126.24180	5.72991	0.2975881	0.23927300	2.5696477	21	1 9.2	21.8
442444 2011 UK_{189}	17.5	X	132.75218	286.46556	76.32622	5.55987	0.2691044	0.23500854	2.6006403	21	1 27.9	21.4
442445 2011 UR_{194}	17.2	X	147.17521	67.60525	266.61373	3.27106	0.1520052	0.23500008	2.6007027	21	—	—
442446 2011 UX_{194}	16.1	X	265.70140	211.13494	193.18904	13.20831	0.1846415	0.17805136	3.1292423	21	7 11.5	21.0
442447 2011 UG_{197}	16.4	X	156.52962	186.01395	29.33566	10.67182	0.0396712	0.19320716	2.9633793	21	10 27.2	20.7
442448 2011 UT_{200}	16.2	X	111.35396	276.40304	71.60579	13.47441	0.1170976	0.22370838	2.6874963	21	—	—
442449 2011 UR_{208}	17.4	X	104.01836	39.37419	280.49110	3.12818	0.2078322	0.21826722	2.7319770	21	—	—
442450 2011 UQ_{228}	17.7	X	333.61002	253.65612	162.15305	2.35220	0.0562226	0.20325946	2.8648521	21	11 20.8	21.4
442451 2011 US_{228}	17.6	X	164.79668	131.64968	180.03520	3.72354	0.1082607	0.23170524	2.6252993	21	—	—
442452 2011 UV_{233}	16.6	X	149.66793	353.61223	9.07113	13.02040	0.1698858	0.23810811	2.5780219	21	2 6.0	20.7
442453 2011 UX_{234}	17.1	X	126.38892	319.98459	332.31728	2.74278	0.1590914	0.21271034	2.7793526	21	—	—
442454 2011 UZ_{235}	17.1	X	273.26227	214.46261	231.08020	11.01169	0.0590277	0.18978494	2.9988970	21	9 29.2	21.4
442455 2011 UP_{243}	18.1	X	110.32004	335.85942	67.33179	0.37000	0.2053481	0.23352758	2.6116237	21	2 12.9	21.5
442456 2011 UY_{246}	16.1	X	26.84811	9.91967	56.82765	10.65644	0.0330055	0.21477109	2.7615453	21	—	—
442457 2011 UY_{253}	17.3	X	126.19147	311.84971	72.49361	5.98802	0.2233001	0.23674994	2.5878721	21	2 11.8	21.0
442458 2011 UP_{254}	16.9	X	42.31006	171.88345	207.30286	8.44861	0.1552932	0.21123915	2.7922423	21	—	—
442459 2011 UU_{255}	16.8	X	84.68693	283.36802	119.83653	12.76216	0.1920759	0.23136622	2.6278632	21	1 4.0	19.7
442460 2011 UW_{263}	16.3	X	85.86774	307.41468	77.43916	12.32584	0.1346032	0.22437443	2.6821752	21	—	—
442461 2011 UJ_{266}	17.2	X	147.03340	283.31657	76.28726	3.69601	0.2915833	0.23607261	2.5928197	21	2 8.0	21.4
442462 2011 UO_{268}	16.5	X	79.74701	117.56932	232.99144	12.72991	0.0965798	0.21312479	2.7757482	21	—	—
442463 2011 UJ_{274}	17.0	X	349.20963	183.78887	256.97673	4.70658	0.0668901	0.21222962	2.7835480	21	—	—
442464 2011 US_{274}	17.4	X	116.61404	63.28466	312.03719	2.37067	0.2107005	0.23162541	2.6259024	21	1 17.5	20.7
442465 2011 UA_{281}	15.6	X	257.32390	309.38611	80.81910	20.18680	0.1520987	0.17165947	3.2064480	21	6 19.9	20.4
442466 2011 UW_{285}	17.0	X	78.39215	186.70258	116.29366	3.19281	0.0496439	0.20293026	2.8679496	21	11 17.4	21.0
442467 2011 UY_{290}	17.4	X	58.27927	278.31934	145.47981	5.08956	0.1581827	0.22770162	2.6559831	21	—	—
442468 2011 UK_{296}	16.8	X	109.38057	271.39761	46.85376	8.65109	0.1924419	0.21727128	2.7403193	21	—	—
442469 2011 UZ_{297}	17.0	X	320.04005	341.64931	78.03244	3.12429	0.0954512	0.19647432	2.9304356	21	11 3.3	20.4
442470 2011 UX_{298}	16.2	X	130.21051	148.07747	55.45126	11.68901	0.0313203	0.18111126	3.0938963	21	9 17.4	20.8
442471 2011 UM_{300}	16.4	X	228.43873	75.95927	69.40523	11.75191	0.0417867	0.19069890	2.9893075	21	10 27.9	20.7
442472 2011 UY_{303}	17.1	X	226.92435	107.68711	90.63665	5.79782	0.0118973	0.21316191	2.7754260	21	—	—
442473 2011 US_{305}	15.6	X	244.87488	164.29436	242.11708	10.48442	0.1229781	0.17334441	3.1856360	21	6 29.6	20.5
442474 2011 UD_{309}	17.4	X	49.90179	165.83862	208.06429	2.31603	0.1501381	0.21253880	2.7808479	21	—	—
442475 2011 UR_{309}	16.3	X	91.44863	312.36490	58.65496	18.72334	0.2201790	0.22629389	2.6669865	21	—	—
442476 2011 UE_{314}	16.3	X	288.30871	91.06729	60.37065	9.65212	0.0747718	0.21155624	2.7894515	21	—	—
442477 2011 UG_{314}	16.9	X	0.34841	312.73524	83.46778	4.21413	0.0757122	0.20196107	2.8771175	21	12 4.6	20.4
442478 2011 UU_{320}	16.9	X	83.24785	21.46015	354.68382	13.77974	0.1096881	0.22202723	2.7010454	21	—	—
442479 2011 UH_{321}	16.2	X	339.71676	164.32396	312.29540	10.70868	0.0523049	0.21824006	2.7322036	21	—	—
442480 2011 UM_{326}	16.4	X	24.35186	304.49110	89.11372	16.29498	0.1534447	0.21034576	2.8001430	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442481 2011 UA_{336}	17.2	X	62.15232	290.00034	91.84542	4.42241	0.1441525	0.21928398	2.7235255	21	—	—
442482 2011 UH_{347}	16.2	X	307.71712	184.70769	182.15863	10.39097	0.0859451	0.18372988	3.0644287	21	8 2.7	20.4
442483 2011 UO_{351}	17.0	X	64.68181	104.14897	285.04467	4.78099	0.1564233	0.22062017	2.7125176	21	—	—
442484 2011 UN_{362}	16.2	X	229.60193	82.11294	69.53774	9.98345	0.0529736	0.19205092	2.9752614	21	11 3.5	20.4
442485 2011 UW_{369}	17.2	X	45.15445	298.59208	69.96884	5.41194	0.1186631	0.20997764	2.8034147	21	—	—
442486 2011 UH_{387}	16.2	X	76.77546	249.57768	83.39860	13.99508	0.2215650	0.21087525	2.7954538	21	—	—
442487 2011 UJ_{391}	16.7	X	113.33555	256.59495	102.54443	12.56017	0.2676223	0.22782201	2.6550473	21	1 1.9	20.1
442488 2011 UR_{391}	16.8	X	86.13634	289.26271	93.28684	13.67384	0.1928641	0.22377425	2.6869689	21	—	—
442489 2011 UA_{397}	17.3	X	177.08643	67.53821	238.42795	8.26407	0.0829828	0.23919667	2.5701943	21	—	—
442490 2011 VV	17.0	X	73.80908	177.50317	176.69821	6.58376	0.0263400	0.21340699	2.7733007	21	—	—
442491 2011 VT_{1}	16.2	X	295.25923	277.54246	234.85248	12.63238	0.1432893	0.21646001	2.7471619	21	—	—
442492 2011 VY_{3}	16.7	X	150.42510	337.06102	343.16821	11.36468	0.1825199	0.23493770	2.6011630	21	—	—
442493 2011 VB_{9}	17.7	X	144.35687	166.28570	179.28541	14.22308	0.2629934	0.23571788	2.5954203	21	1 14.3	22.0
442494 2011 VL_{12}	16.7	X	341.80625	331.02768	68.95392	10.35590	0.0568437	0.19314520	2.9640130	21	11 11.5	20.6
442495 2011 VN_{18}	16.8	X	100.37922	253.60008	75.88943	12.37710	0.2587877	0.21889092	2.7267849	21	—	—
442496 2011 VY_{18}	17.2	X	48.99078	344.96059	46.98373	4.28434	0.1098746	0.21523872	2.7575440	21	—	—
442497 2011 VK_{19}	17.2	X	108.54401	294.93950	52.09239	9.51852	0.1993464	0.22278822	2.6948912	21	—	—
442498 2011 VJ_{22}	17.0	X	16.36507	72.61720	345.62301	5.00462	0.0763027	0.21001217	2.8031074	21	—	—
442499 2011 VO_{22}	17.4	X	147.03237	201.98369	137.39866	4.78435	0.1346856	0.23030784	2.6359079	21	—	—
442500 2011 WG_{2}	15.4	X	201.51219	307.79534	74.50746	19.13816	0.0796937	0.14787596	3.5416394	21	4 28.6	21.0
442501 2011 WX_{8}	16.7	X	104.82393	39.81553	248.74917	5.12375	0.2046039	0.20351443	2.8624588	21	12 11.3	21.5
442502 2011 WJ_{14}	17.0	X	47.16503	169.28886	207.35148	7.76540	0.1841756	0.21335359	2.7737634	21	—	—
442503 2011 WK_{16}	16.8	X	95.06411	259.01006	82.73478	13.24818	0.2637076	0.21542889	2.7559209	21	—	—
442504 2011 WA_{20}	16.4	X	77.88490	351.17069	248.56404	8.44101	0.0508471	0.17298082	3.1900984	21	8 21.6	21.1
442505 2011 WP_{21}	17.1	X	111.16410	128.82352	247.73591	5.14941	0.0276684	0.22340334	2.6899421	21	—	—
442506 2011 WJ_{22}	17.1	X	320.54742	357.27850	58.39442	1.70452	0.1058071	0.19176415	2.9782268	21	10 27.9	20.6
442507 2011 WN_{29}	17.7	X	357.91705	56.89838	7.67352	8.28402	0.1793980	0.20451001	2.8531614	21	—	—
442508 2011 WA_{42}	16.6	X	135.86418	184.23540	200.14507	13.68833	0.1781435	0.23660721	2.5889127	21	2 10.6	20.6
442509 2011 WH_{47}	17.1	X	90.69478	305.35472	73.80628	9.16802	0.1796850	0.22269667	2.6956297	21	—	—
442510 2011 WB_{48}	17.3	X	31.50440	194.11872	193.59593	2.07073	0.0541604	0.20628237	2.8367951	21	—	—
442511 2011 WF_{61}	17.1	X	67.52316	336.02466	90.03029	3.07812	0.0561187	0.22361246	2.6882648	21	—	—
442512 2011 WQ_{65}	16.1	X	33.07381	44.56973	273.97680	9.55573	0.0233262	0.18070840	3.0984928	21	9 28.2	20.6
442513 2011 WZ_{66}	17.4	X	105.11486	37.73154	355.58940	6.12844	0.3286520	0.23066447	2.6331903	21	2 13.9	21.0
442514 2011 WR_{75}	16.6	X	88.59728	89.56033	251.60655	11.66108	0.1278143	0.21286503	2.7780059	21	—	—
442515 2011 WR_{78}	17.3	X	134.74144	29.71989	11.07994	5.59257	0.3471256	0.23809539	2.5781137	21	3 22.9	21.6
442516 2011 WE_{79}	16.3	X	186.03346	279.41646	249.39853	8.12688	0.0339244	0.18626962	3.0365099	21	9 30.1	20.9
442517 2011 WM_{83}	16.7	X	343.77532	237.93682	87.23983	6.25462	0.1925538	0.17767870	3.1336162	21	8 1.5	20.0
442518 2011 WM_{85}	16.9	X	26.92916	320.95397	99.85961	4.75039	0.0869269	0.21101823	2.7941908	21	—	—
442519 2011 WN_{87}	17.4	X	291.57665	298.85140	133.52674	1.80343	0.1408324	0.18757789	3.0223745	21	9 29.9	21.2
442520 2011 WU_{87}	17.0	X	240.09846	67.06440	81.72608	6.35074	0.0885427	0.19237408	2.9719284	21	11 6.9	21.2
442521 2011 WK_{91}	16.6	X	68.25028	333.59722	64.59653	10.43543	0.2832873	0.21862074	2.7290311	21	—	—
442522 2011 WZ_{91}	17.3	X	71.34507	306.83587	80.50366	9.52992	0.2686663	0.21831152	2.7316074	21	—	—
442523 2011 WU_{95}	19.5	X	245.78941	242.39196	67.69219	6.71525	0.4247372	0.45806324	1.6666807	21	1 28.7	22.5
442524 2011 WV_{97}	15.9	X	85.24924	187.00320	79.61569	10.60230	0.0765481	0.18455030	3.0553400	21	10 16.9	20.4
442525 2011 WR_{103}	16.1	X	343.69294	353.53280	8.97384	8.16853	0.0900271	0.18692261	3.0294339	21	9 25.0	19.7
442526 2011 WG_{104}	16.5	X	289.53630	84.10618	334.51074	7.38062	0.0314732	0.18504078	3.0499385	21	9 21.1	20.8
442527 2011 WH_{106}	16.2	X	197.46879	268.62490	286.19643	5.56339	0.0383077	0.19401419	2.9551558	21	11 17.1	20.5
442528 2011 WB_{109}	16.2	X	2.29703	246.12319	119.36855	11.75579	0.1409749	0.19221329	2.9735856	21	11 6.5	19.9
442529 2011 WT_{121}	16.6	X	277.47997	159.95621	288.60244	4.95415	0.2154032	0.18420172	3.0591934	21	9 15.6	20.7
442530 2011 WM_{125}	16.4	X	343.15431	125.19090	255.03852	14.75915	0.0765588	0.18973419	2.9994318	21	10 11.9	20.5
442531 2011 WG_{126}	16.4	X	178.87751	311.69007	242.49974	9.47303	0.0605095	0.19072451	2.9890399	21	10 24.1	20.9
442532 2011 WC_{127}	17.3	X	45.71715	157.04652	245.91595	3.39771	0.0711930	0.21220464	2.7837665	21	—	—
442533 2011 WO_{133}	16.3	X	147.88799	202.86003	128.02489	19.31999	0.2931046	0.23236860	2.6203004	21	1 5.8	20.7
442534 2011 WG_{134}	16.6	X	62.40695	317.95943	34.03238	3.10823	0.1666514	0.20212950	2.8755190	21	—	—
442535 2011 WA_{138}	17.3	X	315.98529	151.58211	345.28212	3.17334	0.0364944	0.21540543	2.7561210	21	—	—
442536 2011 WB_{146}	17.1	X	167.27589	35.22189	338.00450	2.16474	0.1995827	0.23985166	2.5655131	21	3 4.5	21.3
442537 2011 WE_{151}	16.2	X	299.37808	81.49771	336.01625	11.75646	0.1655490	0.17948736	3.1125295	21	9 14.7	20.0
442538 2011 WJ_{151}	16.0	X	144.09834	13.52386	274.81072	16.74412	0.1297454	0.21515698	2.7582423	21	—	—
442539 2011 YM_{9}	16.1	X	71.41337	214.43576	83.29563	8.78191	0.0401063	0.18821942	3.0155030	21	11 1.2	20.4
442540 2011 YR_{12}	16.6	X	37.02179	261.35057	117.23485	16.91251	0.2360251	0.19931269	2.9025480	21	—	—
442541 2011 YQ_{13}	15.5	X	356.15424	242.03447	106.97176	22.84473	0.1901078	0.17632864	3.1495909	21	10 11.8	19.5
442542 2011 YW_{13}	16.6	X	294.60377	90.16003	345.08595	4.77001	0.1253677	0.18349461	3.0670476	21	10 7.6	20.5
442543 2011 YV_{31}	15.6	X	236.47446	201.48246	290.86327	7.89226	0.0689194	0.18018992	3.1044337	21	10 8.7	20.3
442544 2011 YE_{33}	16.3	X	333.40778	281.98231	122.36508	16.67049	0.1419774	0.18539639	3.0460372	21	11 8.0	20.2
442545 2011 YZ_{33}	15.6	X	177.88609	207.16671	325.81269	9.86615	0.0263049	0.17140689	3.2095972	21	9 24.2	20.3
442546 2011 YE_{34}	16.2	X	252.38635	4.01975	97.17897	9.99217	0.0429826	0.17404255	3.1771113	21	10 1.7	20.8
442547 2011 YQ_{39}	17.7	X	213.91143	80.83700	120.08960	45.29009	0.0233645	0.39788709	1.8307519	21	—	—
442548 2011 YR_{42}	16.5	X	353.95863	48.70082	308.42643	7.69040	0.1142126	0.18027110	3.1035017	21	9 29.2	20.4
442549 2011 YA_{45}	15.7	X	270.67126	165.28300	283.60084	9.85505	0.0813465	0.17526689	3.1622980	21	9 23.1	20.2
442550 2011 YT_{56}	17.0	X	19.63348	81.08879	311.10977	3.23709	0.1244233	0.19441076	2.9511357	21	12 31.3	20.8
442551 2011 YO_{59}	16.2	X	289.08538	290.32193	118.31930	17.93450	0.1284283	0.17057900	3.2199738	21	8 29.5	20.6
442552 2011 YP_{60}	16.8	X	83.25141	253.03051	151.63632	8.42317	0.2237996	0.21724339	2.7405538	21	1 11.9	19.9
442553 2011 YX_{69}	16.3	X	342.89268	253.79789	112.71321	11.03371	0.1063595	0.18055532	3.1002438	21	10 2.9	20.3
442554 2011 YW_{78}	16.2	X	282.55077	127.99209	331.24019	12.16127	0.0808368	0.18055005	3.1003042	21	10 22.0	20.7
442555 2012 AB_{6}	16.5	X	334.48018	276.35876	127.29248	8.48607	0.1972609	0.18548596	3.0450565	21	11 4.7	19.7
442556 2012 AH_{7}	16.1	X	313.59367	284.68307	135.59739	11.53525	0.1156121	0.18062729	3.0994203	21	10 24.6	20.1
442557 2012 AH_{8}	16.4	X	4.07170	268.71467	112.95438	3.03039	0.0685350	0.18372802	3.0644494	21	11 17.9	20.4
442558 2012 AU_{8}	16.2	X	359.24310	231.49703	124.95801	10.26683	0.0897630	0.17482645	3.1676070	21	10 13.8	20.4
442559 2012 AU_{10}	18.2	X	197.76436	307.45528	125.22818	39.13111	0.3158042	0.46177092	1.6577473	21	6 17.4	21.6
442560 2012 AR_{14}	15.8	X	280.04337	189.82072	273.21642	14.80652	0.1306362	0.18231748	3.0802350	21	10 16.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442561 2012 AK_{15}	15.9	X	264.29155	129.47618	318.10823	11.97114	0.0507721	0.17504534	3.1649658	21	9 18.2	20.5
442562 2012 AL_{16}	16.2	X	7.40150	286.31465	51.46330	5.79826	0.0362664	0.17309014	3.1887551	21	9 26.5	20.5
442563 2012 AD_{17}	16.0	X	294.74971	308.87332	148.52510	17.30034	0.1905261	0.18100666	3.0950881	21	11 3.3	20.1
442564 2012 AP_{18}	16.4	X	123.15062	306.99061	76.50804	12.26096	0.2042284	0.22488797	2.6780904	21	2 8.2	20.4
442565 2012 AX_{23}	14.6	X	28.69093	189.36651	341.25728	10.06676	0.1214255	0.12392894	3.9843201	21	3 30.2	19.6
442566 2012 BL_{6}	16.4	X	351.08497	51.60395	303.33155	6.84056	0.0821770	0.17208806	3.2011220	21	9 20.5	20.6
442567 2012 BU_{11}	15.3	X	27.49075	19.77840	322.22959	12.04903	0.1275057	0.17644402	3.1482177	21	10 31.8	19.7
442568 2012 BO_{21}	15.9	X	341.69974	103.20724	300.54778	9.46050	0.0849256	0.18122499	3.0926017	21	11 9.6	20.0
442569 2012 BN_{22}	16.1	X	335.68547	145.79324	263.91497	8.13939	0.1327556	0.18509893	3.0492997	21	11 10.4	19.8
442570 2012 BG_{30}	16.2	X	265.28295	324.80951	126.36525	9.97881	0.0746951	0.17555346	3.1588557	21	9 29.6	20.7
442571 2012 BW_{32}	15.6	X	268.35464	272.44926	158.33659	26.48370	0.2355686	0.17061092	3.2195722	21	8 10.7	20.5
442572 2012 BP_{49}	16.9	X	41.76157	251.41488	125.80406	8.33670	0.3231691	0.20163131	2.8802537	21	—	—
442573 2012 BP_{73}	15.7	X	0.90991	245.09569	144.39879	17.43568	0.0978421	0.18429166	3.0581979	21	11 29.2	19.9
442574 2012 BH_{74}	16.4	X	340.29467	267.05287	147.19750	4.33741	0.1835265	0.18774534	3.0205772	21	11 28.9	19.6
442575 2012 BC_{79}	15.2	X	221.48996	199.65145	295.99980	15.75609	0.1600611	0.17562305	3.1580211	21	9 12.2	20.5
442576 2012 BU_{82}	16.2	X	343.21705	56.48275	318.66131	8.37608	0.1007288	0.17425815	3.1744902	21	10 4.1	20.2
442577 2012 BA_{83}	16.9	X	275.49035	8.76566	93.41569	2.58938	0.1512929	0.17949940	3.1123903	21	10 13.2	21.0
442578 2012 BZ_{84}	17.2	X	306.53912	335.56162	75.25946	2.44462	0.1686705	0.17535111	3.1612854	21	9 20.4	21.0
442579 2012 BQ_{87}	15.6	X	313.22161	127.75453	287.69713	15.50048	0.0985841	0.17779663	3.1322304	21	10 5.3	19.9
442580 2012 BV_{90}	16.3	X	298.50482	274.12025	137.28824	6.57506	0.2699820	0.17418970	3.1753217	21	8 22.4	20.3
442581 2012 BU_{93}	16.1	X	355.97573	80.75448	317.04776	11.68790	0.1432614	0.18512912	3.0489682	21	11 29.8	19.9
442582 2012 BL_{98}	16.2	X	255.64455	179.29332	308.21314	11.30681	0.2075242	0.18019840	3.1043363	21	10 4.8	20.9
442583 2012 BE_{102}	15.5	X	305.63665	113.46287	296.46704	9.75922	0.0077717	0.17562400	3.1580098	21	9 29.0	20.1
442584 2012 BB_{103}	15.6	X	350.83424	229.23644	123.24213	28.32237	0.2239465	0.17314134	3.1881264	21	10 4.3	19.5
442585 2012 BH_{103}	15.7	X	306.15343	274.22576	130.33720	15.90056	0.0792149	0.17484004	3.1674428	21	9 26.4	20.1
442586 2012 BX_{150}	16.8	X	123.21534	29.23301	68.28826	13.95292	0.3651592	0.23944165	2.5684409	21	5 23.4	21.2
442587 2012 BP_{151}	16.5	X	317.62435	109.90501	343.61572	5.63760	0.1063304	0.18600722	3.0393649	21	12 8.7	20.3
442588 2012 BK_{152}	15.6	X	337.61685	271.52829	131.18357	10.37897	0.0849170	0.17750694	3.1356373	21	11 8.5	19.7
442589 2012 CZ_{7}	15.9	X	267.29115	290.84010	152.65213	12.21422	0.1147926	0.16922892	3.2370767	21	9 13.6	20.4
442590 2012 CV_{8}	16.6	X	279.34659	128.96789	313.14895	2.60505	0.1421438	0.17372238	3.1810137	21	9 21.4	21.0
442591 2012 CR_{9}	16.8	X	312.19746	229.73645	201.62091	3.16780	0.2002407	0.18187040	3.0852808	21	10 23.9	19.9
442592 2012 CS_{25}	15.7	X	277.91324	279.93431	168.85019	18.93232	0.1396305	0.17307028	3.1889990	21	10 1.1	20.1
442593 2012 CU_{33}	16.5	X	11.31707	222.30060	161.52464	6.14091	0.1339389	0.18122015	3.0926567	21	12 7.3	20.4
442594 2012 CM_{40}	15.8	X	314.19510	236.33813	131.01107	10.75726	0.0384091	0.15606198	3.4166826	21	8 19.6	20.5
442595 2012 CJ_{43}	16.1	X	355.28856	8.20068	11.48666	11.65363	0.0878029	0.17891723	3.1191381	21	10 30.3	20.2
442596 2012 DT_{4}	16.3	X	327.04434	343.92567	111.43238	12.33109	0.2451414	0.19099827	2.9861831	21	12 28.7	19.0
442597 2012 DN_{7}	15.7	X	311.54812	303.17625	130.01108	9.97706	0.1491527	0.17834837	3.1257671	21	11 2.9	19.6
442598 2012 DO_{9}	15.4	X	283.91755	249.59782	145.94632	18.24313	0.1277177	0.15719482	3.4002478	21	7 31.9	20.2
442599 2012 DD_{13}	15.4	X	340.43069	212.40645	187.75807	11.85841	0.0577350	0.17429804	3.1740058	21	11 6.6	19.6
442600 2012 DE_{24}	16.7	X	309.40795	271.59449	176.89574	25.54212	0.2537191	0.17902953	3.1178337	21	11 6.8	20.4
442601 2012 DC_{39}	18.0	X	288.27130	283.22537	159.34530	23.51036	0.1274872	0.37945019	1.8895840	21	11 27.1	20.0
442602 2012 DE_{56}	15.7	X	268.92178	319.08203	131.16452	29.20806	0.1697996	0.17619964	3.1511279	21	9 21.3	20.5
442603 2012 FC_{29}	15.4	X	100.14059	335.59508	144.95385	4.01258	0.1252862	0.12299662	4.0044290	21	5 9.7	21.1
442604 2012 GR_{11}	17.7	X	87.72788	177.97323	119.90076	23.74390	0.0593766	0.37231657	1.9136439	21	12 27.1	20.0
442605 2012 HY_{33}	19.1	X	40.09162	270.76702	63.61264	14.69795	0.5436800	0.34910757	1.9975448	21	—	—
442606 2012 JM_{18}	17.9	X	0.18890	274.46850	111.03888	23.90651	0.1217823	0.36716785	1.9314922	21	—	—
442607 2012 KZ_{8}	17.9	X	97.46638	140.59292	119.22924	24.33276	0.0366534	0.36027931	1.9560345	21	11 18.8	20.7
442608 2012 KD_{9}	18.0	X	194.27355	84.59606	130.04916	24.01525	0.0667406	0.37612992	1.9006878	21	—	—
442609 2012 KU_{42}	17.7	X	263.95790	207.79457	136.19274	18.97961	0.5149103	0.30190749	2.2006626	21	3 30.9	22.3
442610 2012 KS_{44}	17.6	X	137.36606	148.83355	126.81057	23.62003	0.0654794	0.37294651	1.9114885	21	—	—
442611 2012 PC_{5}	17.4	X	321.86740	288.32346	281.81100	5.39909	0.0271056	0.28582067	2.2824799	21	1 21.5	20.1
442612 2012 PY_{12}	17.8	X	305.00212	342.67546	312.14817	7.26509	0.0949704	0.30442648	2.1885061	21	4 9.6	20.4
442613 2012 PE_{20}	18.1	X	303.09153	330.57996	267.14001	4.45597	0.1986972	0.29505698	2.2345948	21	1 9.2	21.1
442614 2012 QZ_{12}	17.7	X	98.15895	222.35835	154.75474	1.74887	0.1907374	0.25826172	2.4420957	21	—	—
442615 2012 QD_{35}	18.1	X	316.62993	62.49829	210.51007	5.26352	0.1888808	0.30401710	2.1904703	21	3 12.5	20.7
442616 2012 QC_{50}	17.3	X	188.83042	232.96113	147.57214	23.97541	0.2196918	0.28937267	2.2637634	21	4 2.5	21.3
442617 2012 RR_{20}	17.4	X	230.26027	27.78520	282.54287	4.92649	0.1046729	0.28563983	2.2834431	21	2 4.1	20.8
442618 2012 RF_{21}	18.1	X	250.24061	60.49335	254.65141	1.57027	0.2000432	0.29289054	2.2456005	21	2 25.5	21.5
442619 2012 RZ_{22}	17.8	X	191.87161	224.02528	94.25847	2.67728	0.1888952	0.27125347	2.3634831	21	1 14.2	21.6
442620 2012 RD_{29}	17.8	X	216.79476	145.00143	194.19605	7.15909	0.1288154	0.28903429	2.2655299	21	2 26.1	21.1
442621 2012 SD	18.7	X	298.52448	310.07787	11.54939	4.64136	0.1101608	0.30766144	2.1731382	21	5 10.2	21.0
442622 2012 SJ_{8}	18.2	X	209.38443	127.74915	204.01450	6.09757	0.1677152	0.28338580	2.2955354	21	2 10.5	21.9
442623 2012 SL_{15}	18.3	X	183.38240	75.18231	344.22440	8.04762	0.1500523	0.29199480	2.2501906	21	5 7.4	21.8
442624 2012 SF_{18}	18.3	X	232.34505	167.12330	226.13050	6.18363	0.0660402	0.30145201	2.2028787	21	6 1.5	21.1
442625 2012 SG_{18}	18.1	X	323.52960	332.73646	312.43752	3.46920	0.1803844	0.30306306	2.1950650	21	4 11.8	20.3
442626 2012 SH_{21}	18.0	X	264.40044	188.20527	189.04918	6.63660	0.1475374	0.30557328	2.1830271	21	6 9.6	20.8
442627 2012 SC_{26}	18.6	X	329.68760	89.77757	212.82072	4.32798	0.0329458	0.30818847	2.1706600	21	6 15.1	20.7
442628 2012 SH_{50}	17.9	X	351.26240	50.57885	231.44424	2.28091	0.2587567	0.31614569	2.1340825	21	5 27.9	18.2
442629 2012 SX_{57}	18.3	X	192.35005	320.41956	14.62657	1.16374	0.2397112	0.27603315	2.3361204	21	2 5.8	22.0
442630 2012 SU_{64}	18.4	X	303.76824	338.76973	352.98898	1.85296	0.1859715	0.31278169	2.1493567	21	5 20.9	20.5
442631 2012 TL_{8}	17.1	X	131.35260	213.79913	228.51041	8.88323	0.0972199	0.28472147	2.2883506	21	4 6.9	20.0
442632 2012 TC_{18}	17.7	X	292.17348	236.60937	28.84495	2.39091	0.2001207	0.28757035	2.2732122	21	2 4.8	21.1
442633 2012 TG_{22}	18.2	X	176.29645	188.51075	220.45944	2.95397	0.1122391	0.28779120	2.2720491	21	4 17.6	21.2
442634 2012 TT_{24}	17.7	X	113.89471	58.12915	323.79239	6.05390	0.1619615	0.26318992	2.4115145	21	1 8.3	20.4
442635 2012 TL_{28}	18.0	X	168.83604	283.80625	178.00127	4.17104	0.1297843	0.30146010	2.2028393	21	6 21.4	21.2
442636 2012 TF_{45}	17.4	X	339.44503	308.76312	260.73172	6.18794	0.0801520	0.28153558	2.3055817	21	2 5.4	20.0
442637 2012 TQ_{49}	18.3	X	277.37585	293.00478	6.28507	2.17767	0.0397269	0.28950311	2.2630834	21	3 23.3	21.0
442638 2012 TY_{53}	17.9	X	233.67346	55.86267	303.33940	3.96560	0.1815125	0.29455629	2.2371264	21	4 6.9	21.3
442639 2012 TB_{69}	18.4	X	267.80831	145.90972	192.67795	2.97766	0.1694170	0.29776942	2.2210039	21	4 17.6	21.2
442640 2012 TD_{73}	17.9	X	122.56279	134.22936	304.40690	2.44175	0.1652480	0.27926787	2.3180461	21	4 1.8	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442641 2012 TS_{93}	17.9	X	242.68871	203.65564	86.66045	3.70712	0.1992294	0.28186028	2.3038107	21	1 22.1	21.6
442642 2012 TY_{100}	17.2	X	129.85458	151.74613	211.96611	5.80418	0.1701729	0.25968175	2.4331848	21	1 5.9	20.5
442643 2012 TH_{101}	17.6	X	132.61707	153.94243	299.49192	5.13166	0.0929267	0.28393183	2.2925914	21	4 23.2	20.7
442644 2012 TF_{102}	18.3	X	279.17192	283.38257	0.73867	4.84217	0.1507589	0.28836852	2.2690156	21	2 20.7	21.4
442645 2012 TW_{109}	17.9	X	19.86148	250.04026	323.60362	7.21853	0.0517722	0.29259107	2.2471325	21	4 17.6	20.3
442646 2012 TP_{117}	18.1	X	206.74649	139.01291	269.42636	2.28979	0.1015415	0.29784406	2.2206328	21	5 19.9	21.1
442647 2012 TP_{120}	17.3	X	238.97525	225.60999	286.13087	3.71842	0.0523616	0.22748965	2.6576327	21	11 17.3	20.9
442648 2012 TM_{123}	17.2	X	321.42257	327.95503	254.13249	5.91792	0.0655329	0.27850647	2.3222690	21	1 31.3	20.1
442649 2012 TU_{124}	18.0	X	323.73392	228.93258	78.01882	5.28056	0.2611955	0.31058631	2.1594733	21	5 4.2	19.9
442650 2012 TZ_{125}	17.7	X	240.86657	351.09163	354.48027	2.72612	0.1778355	0.29278371	2.2461467	21	3 29.2	21.0
442651 2012 TR_{132}	18.0	X	246.60414	63.45756	308.24838	8.64537	0.1730160	0.30554237	2.1831743	21	5 4.9	21.4
442652 2012 TF_{136}	17.8	X	250.72520	290.55927	102.13817	5.31392	0.1163581	0.30746306	2.1740728	21	6 18.3	20.4
442653 2012 TJ_{137}	18.5	X	230.24851	131.71837	267.36662	1.30101	0.1512882	0.30107029	2.2047403	21	5 30.5	21.6
442654 2012 TB_{150}	17.7	X	235.52007	348.39527	17.02366	7.22370	0.1096600	0.29350743	2.2424528	21	4 22.4	20.8
442655 2012 TY_{159}	18.3	X	263.20526	195.95433	175.75713	6.45131	0.0846864	0.30660666	2.1781193	21	6 9.4	21.0
442656 2012 TK_{163}	17.9	X	275.12161	125.75609	153.96282	5.74806	0.1582815	0.28461740	2.2889084	21	2 8.7	21.1
442657 2012 TD_{166}	18.0	X	178.01184	331.97830	74.43269	5.36180	0.1436359	0.28695263	2.2764734	21	4 20.0	21.3
442658 2012 TW_{179}	18.2	X	206.42100	47.79175	261.89519	4.97290	0.1527996	0.27388788	2.3483032	21	1 13.9	21.9
442659 2012 TZ_{195}	17.8	X	95.79699	90.02607	354.40605	6.67305	0.1384119	0.26728805	2.3868018	21	3 3.7	20.4
442660 2012 TK_{197}	18.2	X	144.62486	32.71274	11.56310	2.32742	0.1283002	0.27266505	2.3553190	21	3 10.9	21.3
442661 2012 TF_{207}	18.1	X	127.29893	137.36361	294.53137	4.09649	0.1722064	0.27549024	2.3391886	21	3 29.8	21.3
442662 2012 TW_{207}	16.4	X	303.63815	193.31023	245.90153	8.82862	0.1383704	0.21950684	2.7216818	21	11 1.1	19.6
442663 2012 TB_{219}	17.5	X	192.44423	10.60790	35.73285	8.57019	0.1208749	0.28887944	2.2663394	21	5 1.6	20.8
442664 2012 TS_{227}	18.5	X	273.10826	258.56741	111.36354	0.76743	0.1570901	0.30867067	2.1683987	21	6 8.4	21.0
442665 2012 TY_{232}	17.5	X	194.08245	273.69890	87.30393	7.06231	0.2273794	0.28338960	2.2955149	21	3 12.7	21.4
442666 2012 TX_{252}	17.4	X	335.93482	329.35132	277.39502	6.20124	0.0716859	0.28848151	2.2684231	21	3 24.0	20.1
442667 2012 TF_{275}	17.7	X	276.78056	42.95809	246.95322	7.13155	0.1326719	0.28814992	2.2701630	21	2 22.6	21.1
442668 2012 TJ_{280}	17.8	X	98.73190	127.90654	323.55889	4.97895	0.1850556	0.27246860	2.3564509	21	3 21.9	20.5
442669 2012 TS_{285}	18.0	X	217.97812	146.22069	204.58505	6.65545	0.1094131	0.28269280	2.2992854	21	3 15.5	21.5
442670 2012 TT_{291}	17.2	X	222.72305	118.53590	262.18641	5.40372	0.0209002	0.29209618	2.2496699	21	5 3.9	20.0
442671 2012 TD_{294}	17.9	X	54.22356	134.40706	323.05481	3.83475	0.1177314	0.25800429	2.4437199	21	1 9.1	20.2
442672 2012 TL_{296}	16.7	X	230.24852	328.71989	221.44552	21.10390	0.0373205	0.23297727	2.6157347	21	12 26.1	20.6
442673 2012 TO_{301}	17.8	X	229.17537	352.59568	56.02356	8.41922	0.1580773	0.30406777	2.1902270	21	6 10.3	20.9
442674 2012 TJ_{302}	17.0	X	114.81130	164.81275	296.51585	4.33367	0.0996859	0.28509935	2.2863282	21	4 11.6	19.9
442675 2012 TT_{306}	18.0	X	235.41269	308.87283	82.60495	4.93292	0.1854579	0.29973105	2.2113028	21	5 23.6	21.3
442676 2012 TR_{308}	17.1	X	259.80696	16.78993	279.20144	6.06453	0.1205914	0.28189897	2.3035999	21	2 15.4	20.4
442677 2012 TM_{311}	17.7	X	179.87026	64.76641	352.01098	7.38726	0.1340972	0.28878426	2.2668374	21	4 30.3	21.1
442678 2012 TN_{320}	17.0	X	126.96828	273.26500	144.06595	13.64104	0.1294628	0.27055366	2.3675570	21	3 9.1	20.1
442679 2012 UD_{7}	18.2	X	197.13715	270.04781	126.16689	4.46718	0.1953043	0.29077023	2.2565039	21	4 25.8	21.9
442680 2012 UZ_{13}	16.9	X	188.37725	195.61530	34.82098	6.19629	0.0587053	0.23827618	2.5768094	21	12 27.7	20.6
442681 2012 UK_{24}	18.4	X	240.35437	0.98762	334.20958	9.70823	0.1263750	0.28871217	2.2672147	21	3 16.3	21.9
442682 2012 UT_{31}	17.1	X	101.15606	159.04057	285.32489	6.29374	0.0695705	0.27154955	2.3617649	21	2 24.0	20.1
442683 2012 UL_{38}	17.7	X	283.40495	55.38761	256.32626	4.95473	0.2485942	0.29809468	2.2193880	21	3 17.4	20.9
442684 2012 US_{39}	16.3	X	242.27376	29.33613	19.17221	10.78674	0.1062113	0.19214002	2.9743415	21	7 3.1	20.9
442685 2012 UU_{42}	18.3	X	191.50955	268.60252	31.50522	1.52546	0.1859383	0.26443838	2.4039184	21	—	—
442686 2012 UT_{43}	17.7	X	167.58156	212.92520	194.16414	4.66625	0.2132512	0.27969033	2.3157113	21	4 13.4	21.4
442687 2012 UH_{46}	17.4	X	343.29488	35.34051	173.34291	6.00214	0.0611096	0.27517659	2.3409657	21	2 15.6	20.0
442688 2012 UF_{48}	17.5	X	38.26422	221.27414	180.73261	3.89390	0.1455368	0.24033047	2.5621044	21	—	—
442689 2012 UT_{48}	17.8	X	293.44595	227.66841	41.71629	7.16808	0.1038014	0.28300316	2.2976041	21	2 26.9	20.8
442690 2012 UV_{50}	17.8	X	273.97957	151.89279	137.83402	2.88029	0.1686041	0.28453917	2.2893280	21	2 20.2	21.1
442691 2012 UP_{52}	17.8	X	78.02850	73.31453	43.73549	6.21570	0.1063932	0.27213615	2.3583697	21	3 18.3	20.3
442692 2012 UC_{61}	15.8	X	316.38311	71.64013	278.46688	14.97608	0.1073305	0.18181686	3.0858865	21	7 21.6	19.8
442693 2012 UD_{72}	18.1	X	141.06773	79.02031	30.46616	6.11397	0.0983471	0.29294716	2.2453111	21	5 28.0	21.0
442694 2012 UV_{80}	18.1	X	140.22059	102.84745	306.02742	4.45828	0.1047119	0.27285043	2.3542520	21	3 6.5	21.3
442695 2012 UC_{85}	18.2	X	223.14371	76.09448	327.64915	3.89100	0.1945337	0.30285257	2.1960819	21	5 25.9	21.7
442696 2012 UY_{94}	18.0	X	227.22508	190.06364	194.91617	6.60479	0.1681449	0.29716958	2.2239916	21	5 8.5	21.3
442697 2012 UT_{99}	17.9	X	220.66804	205.97322	189.68629	4.64476	0.1324669	0.29550039	2.2323589	21	5 17.9	21.0
442698 2012 UV_{108}	17.8	X	275.37351	337.93248	347.15022	5.25862	0.1523162	0.29662061	2.2267348	21	4 7.8	20.7
442699 2012 UK_{110}	17.0	X	203.10995	110.20307	211.88056	6.32385	0.1284160	0.26811456	2.3818941	21	1 24.9	20.8
442700 2012 UE_{112}	17.8	X	181.27669	274.83814	58.47246	3.04882	0.2285967	0.26716614	2.3875278	21	1 26.9	21.6
442701 2012 UH_{115}	17.7	X	164.57150	47.14522	252.58204	2.22093	0.1618651	0.25616449	2.4554067	21	—	—
442702 2012 UL_{116}	17.9	X	124.64391	97.44741	17.68197	8.23567	0.0600111	0.29052492	2.2577739	21	5 8.6	20.7
442703 2012 UO_{117}	17.8	X	261.55027	264.94425	23.63811	6.63007	0.1049909	0.28067065	2.3103160	21	2 14.3	21.1
442704 2012 UL_{122}	17.7	X	92.76199	200.32798	261.14159	4.18938	0.0508273	0.27187802	2.3598622	21	3 5.2	20.6
442705 2012 UD_{125}	17.5	X	75.77028	103.82795	271.84110	4.76005	0.1844708	0.24340648	2.5404733	21	—	—
442706 2012 UN_{134}	17.4	X	115.81206	99.89244	322.35416	7.42305	0.1434290	0.26943782	2.3740891	21	2 27.9	20.3
442707 2012 UD_{135}	17.7	X	261.84841	349.35047	338.28692	5.81344	0.2288453	0.29524567	2.2336427	21	3 20.9	21.1
442708 2012 UK_{142}	18.3	X	317.31141	186.37665	102.82436	5.40206	0.1930041	0.30051744	2.2074435	21	4 11.2	20.7
442709 2012 UH_{152}	18.0	X	251.43846	117.66385	201.08664	4.66715	0.1827278	0.28407727	2.2918089	21	3 4.5	21.6
442710 2012 UD_{154}	17.6	X	203.69050	79.35328	228.49526	7.87231	0.1204160	0.26978272	2.3720652	21	1 7.7	21.2
442711 2012 UC_{159}	17.7	X	253.72400	325.33903	22.95087	8.06969	0.1007935	0.29265561	2.2468021	21	4 21.4	20.7
442712 2012 UP_{159}	18.0	X	137.27804	331.51545	107.11095	6.92008	0.1232412	0.28121617	2.3073272	21	4 18.9	21.2
442713 2012 UA_{162}	17.1	X	12.09138	164.36539	242.93751	7.69142	0.1628668	0.23127529	2.6285519	21	—	—
442714 2012 UJ_{163}	17.2	X	266.72118	16.14146	283.71633	3.68751	0.1447352	0.28315941	2.2967588	21	2 26.2	20.4
442715 2012 UQ_{166}	17.9	X	302.08316	56.60309	262.64965	7.04590	0.2468910	0.30684435	2.1769943	21	4 17.1	20.6
442716 2012 VH_{11}	18.1	X	252.34001	148.55729	209.83370	5.29186	0.1875980	0.29540260	2.2328515	21	4 25.9	21.5
442717 2012 VQ_{15}	15.4	X	110.51461	253.97006	264.35264	10.04308	0.0761844	0.17993653	3.1073475	21	6 26.8	19.8
442718 2012 VJ_{17}	16.1	X	316.77265	173.24774	248.98337	12.50095	0.0301703	0.21703762	2.7422857	21	11 6.4	19.7
442719 2012 VV_{17}	18.1	X	214.31919	255.52832	124.85373	2.85476	0.1445362	0.28790050	2.2714740	21	4 21.3	21.5
442720 2012 VP_{21}	17.8	X	259.52040	64.03678	231.53538	1.39076	0.2270092	0.28388259	2.2928565	21	2 9.0	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442721 2012 VB_{31}	18.0	X	263.21583	315.28462	80.10348	6.05496	0.2453984	0.30832908	2.1699999	21	6 20.2	20.9
442722 2012 VM_{31}	17.2	X	197.38237	48.20693	233.91412	7.50231	0.1305274	0.25987716	2.4319649	21	—	—
442723 2012 VK_{32}	17.5	X	155.57694	252.18927	100.22541	3.37484	0.2301306	0.26443364	2.4039471	21	1 27.7	21.0
442724 2012 VY_{33}	17.8	X	241.38479	230.97031	141.11307	4.74191	0.1666758	0.29522208	2.2337616	21	5 6.5	21.0
442725 2012 VK_{39}	16.4	X	4.52290	23.19238	77.90511	15.49912	0.1271976	0.23670562	2.5881951	21	—	—
442726 2012 VS_{49}	17.4	X	47.70229	48.35322	52.15602	6.35847	0.1195627	0.25903689	2.4372214	21	—	—
442727 2012 VQ_{67}	17.4	X	312.25316	4.58930	225.95631	5.28872	0.0701212	0.27151098	2.3619885	21	1 31.2	20.5
442728 2012 VD_{68}	17.9	X	265.19732	313.05823	47.20869	6.93777	0.1077954	0.30025693	2.2087201	21	5 21.6	20.6
442729 2012 VE_{72}	17.3	X	103.66754	344.95770	64.66115	7.66669	0.0923381	0.25908327	2.4369304	21	1 21.8	20.2
442730 2012 VW_{72}	18.3	X	199.11537	327.97999	84.72419	3.53638	0.1388449	0.29068149	2.2569631	21	5 18.1	21.5
442731 2012 VU_{91}	16.6	X	126.62038	52.39562	220.80769	8.68149	0.0502297	0.22284914	2.6944000	21	12 8.9	20.5
442732 2012 VJ_{92}	17.4	X	194.66076	342.53456	81.74945	6.45429	0.1375631	0.29121688	2.2541960	21	5 29.1	20.6
442733 2012 VW_{93}	17.5	X	15.20201	211.51394	183.87183	4.21411	0.0758701	0.23000577	2.6382153	21	12 30.9	20.9
442734 2012 VT_{95}	17.9	X	214.21642	154.45776	220.58295	6.42638	0.1154360	0.28652589	2.2787332	21	4 12.6	21.2
442735 2012 VC_{99}	17.4	X	135.12298	192.95054	223.50392	5.88796	0.1177371	0.26861966	2.3789073	21	3 12.1	20.6
442736 2012 VN_{99}	17.9	X	253.89370	253.67256	137.61668	4.20428	0.1764042	0.30337136	2.1935776	21	6 12.9	20.9
442737 2012 VP_{99}	17.5	X	183.73953	344.08633	67.21458	5.56480	0.1251463	0.28705674	2.2759229	21	4 30.9	20.8
442738 2012 VK_{101}	18.4	X	257.68917	223.64232	181.74230	2.20697	0.1193272	0.30871626	2.1681852	21	7 15.5	20.8
442739 2012 VO_{104}	18.2	X	257.05692	117.25049	210.14141	6.09822	0.2459597	0.29192103	2.2505696	21	3 15.2	22.0
442740 2012 WT_{1}	16.6	X	58.16362	308.97542	70.99174	6.53741	0.1428877	0.23659735	2.5889846	21	—	—
442741 2012 WY_{1}	17.2	X	113.18398	233.49189	83.71365	4.45651	0.1487124	0.23875569	2.5733581	21	—	—
442742 2012 WP_{3}	17.6	X	330.17199	141.63741	227.17579	22.56577	0.3841972	0.32383838	2.1001509	21	8 19.3	18.9
442743 2012 WF_{9}	17.7	X	222.58340	307.71878	79.87915	6.60834	0.1767243	0.29095611	2.2555427	21	5 7.9	21.1
442744 2012 WW_{13}	18.1	X	235.08293	208.51171	116.33907	3.15345	0.2174540	0.28056019	2.3109223	21	2 27.0	21.8
442745 2012 WG_{15}	18.3	X	146.29604	290.79173	114.19417	2.94169	0.1782711	0.27103862	2.3647320	21	3 20.4	21.6
442746 2012 WH_{15}	17.6	X	107.85211	330.36451	95.29177	4.44739	0.1695534	0.26327282	2.4110082	21	3 2.4	20.5
442747 2012 WO_{15}	17.5	X	156.84235	263.31170	94.69409	4.54511	0.1689438	0.25979341	2.4324876	21	1 30.8	21.0
442748 2012 WJ_{19}	17.0	X	84.68844	73.81382	251.63061	9.83793	0.1300231	0.22996128	2.6385555	21	—	—
442749 2012 WX_{20}	18.2	X	84.38572	151.03720	284.19638	2.32610	0.1738650	0.25854180	2.4403317	21	2 6.2	20.5
442750 2012 WG_{24}	16.1	X	118.98097	39.59874	243.31403	11.15982	0.1445875	0.22596270	2.6695919	21	12 16.7	20.3
442751 2012 WO_{24}	17.8	X	162.27639	44.11554	1.84686	2.82754	0.1574416	0.27668435	2.3324534	21	4 2.8	21.3
442752 2012 WA_{25}	15.7	X	28.29263	130.88799	301.79814	31.47779	0.1965204	0.23199070	2.6231452	21	—	—
442753 2012 WK_{27}	16.4	X	36.36077	132.30853	256.04302	12.58772	0.1979392	0.23185010	2.6242056	21	—	—
442754 2012 WV_{27}	17.9	X	182.75056	154.84843	236.37376	6.44741	0.0987738	0.27449863	2.3448187	21	3 30.6	21.3
442755 2012 WR_{29}	17.6	X	117.91309	3.99573	74.00419	3.85081	0.1402557	0.26742485	2.3859877	21	3 27.4	20.6
442756 2012 WX_{31}	17.3	X	161.58696	169.07450	255.81833	8.34979	0.1077903	0.27952465	2.3166262	21	4 20.9	20.7
442757 2012 WU_{33}	17.2	X	130.78815	246.91248	98.41736	4.95397	0.1006362	0.24576921	2.5241650	21	—	—
442758 2012 XE_{14}	17.5	X	199.63481	83.60043	302.06856	6.02061	0.1162809	0.28453910	2.2893283	21	4 9.0	20.9
442759 2012 XJ_{37}	16.4	X	342.32945	322.97148	80.08593	14.66907	0.1914717	0.21689050	2.7435257	21	11 27.3	19.0
442760 2012 XV_{46}	17.9	X	189.29703	283.05033	103.57869	4.67555	0.2106326	0.28014330	2.3132144	21	4 8.3	21.7
442761 2012 XR_{48}	17.4	X	170.03174	49.99052	294.79504	5.28875	0.1307624	0.25998209	2.4313105	21	1 23.0	21.0
442762 2012 XJ_{51}	16.9	X	340.08264	148.57951	67.19704	13.85035	0.0262580	0.26933946	2.3746670	21	3 8.2	20.1
442763 2012 XG_{53}	13.9	X	190.28370	84.05160	109.96147	22.25679	0.0895564	0.08410996	5.1590660	21	11 2.2	21.4
442764 2012 XL_{62}	17.6	X	183.68390	201.46751	150.26273	6.67033	0.1388992	0.26820262	2.3813727	21	2 13.9	21.2
442765 2012 XH_{77}	17.5	X	76.75121	129.05209	189.55930	2.31222	0.0794444	0.22319482	2.6916173	21	12 11.3	21.4
442766 2012 XE_{81}	17.3	X	11.99187	329.43179	127.33324	5.65314	0.1539664	0.24036304	2.5618730	21	—	—
442767 2012 XM_{82}	17.7	X	167.29086	252.89250	117.45477	5.27923	0.0867678	0.26718462	2.3874177	21	2 17.6	20.9
442768 2012 XV_{92}	18.3	X	160.95999	72.73268	315.50296	1.49792	0.1193240	0.27040425	2.3684290	21	3 6.8	21.7
442769 2012 XL_{93}	16.5	X	284.26410	60.22933	101.97621	13.44221	0.0882437	0.22236930	2.6982747	21	—	—
442770 2012 XQ_{96}	17.8	X	132.81036	14.41211	49.29845	7.42248	0.0882255	0.26926543	2.3751023	21	3 20.9	20.9
442771 2012 XZ_{102}	18.2	X	98.98038	51.47606	47.05974	6.59579	0.1520482	0.27068872	2.3667694	21	3 31.8	20.9
442772 2012 XH_{104}	16.6	X	13.93074	14.29304	84.43979	13.82372	0.1260125	0.23365279	2.6106906	21	—	—
442773 2012 XO_{105}	16.9	X	315.29820	146.39634	317.91701	8.95374	0.1537303	0.21709292	2.7418200	21	12 27.8	19.8
442774 2012 XZ_{105}	16.3	X	225.24961	102.15197	101.09902	18.44543	0.1087287	0.21461106	2.7629180	21	12 25.9	20.2
442775 2012 XH_{107}	17.8	X	177.86524	158.02572	248.66533	3.56757	0.1422009	0.27971874	2.3155545	21	4 17.6	21.2
442776 2012 XB_{117}	17.3	X	152.17105	116.40825	281.86364	8.50681	0.2076855	0.27049773	2.3678833	21	3 14.5	21.1
442777 2012 XE_{120}	17.1	X	262.27288	72.98597	89.47467	9.69433	0.0954556	0.21447218	2.7641105	21	12 23.3	20.5
442778 2012 XE_{124}	16.8	X	218.18703	134.80860	128.76861	9.15412	0.0237789	0.24429023	2.5343425	21	—	—
442779 2012 XO_{125}	17.6	X	124.68122	237.18746	146.17777	6.78794	0.1356849	0.25667211	2.4521682	21	1 20.9	20.7
442780 2012 XT_{131}	16.0	X	87.84302	140.29856	91.08488	11.73024	0.0424703	0.19182649	2.9775815	21	9 1.6	20.3
442781 2012 XL_{135}	16.9	X	93.07145	217.12259	138.31456	3.90113	0.1617135	0.24094152	2.5577707	21	—	—
442782 2012 XY_{135}	17.2	X	51.37007	328.52550	110.02616	14.58895	0.1406418	0.24217853	2.5490535	21	—	—
442783 2012 XU_{136}	18.2	X	232.72092	77.65260	287.53431	3.52569	0.2063605	0.28915114	2.2649196	21	4 13.4	21.9
442784 2012 XB_{140}	18.4	X	154.99362	199.77010	194.11356	0.78081	0.1764606	0.27146311	2.3622662	21	3 13.3	21.9
442785 2012 XM_{144}	16.6	X	55.94068	322.18629	106.52323	5.07354	0.2152630	0.23749868	2.5824301	21	—	—
442786 2012 XN_{144}	16.7	X	7.95675	139.63230	310.13449	32.04229	0.1788554	0.23080380	2.6321305	21	—	—
442787 2012 XQ_{150}	18.5	X	160.22921	16.80714	27.11525	2.45556	0.2237690	0.27566791	2.3381834	21	4 3.9	22.2
442788 2012 XY_{150}	16.7	X	101.37015	287.62332	83.37209	12.47992	0.1472165	0.23747009	2.5826374	21	—	—
442789 2012 XW_{151}	17.9	X	115.69899	314.57328	124.92994	2.77931	0.1499882	0.26254955	2.4154341	21	3 27.9	20.9
442790 2012 XA_{152}	17.6	X	188.23099	309.13167	115.16580	5.32291	0.1994028	0.28319477	2.2965676	21	5 23.9	21.4
442791 2012 XE_{152}	16.8	X	350.69461	119.02759	312.92877	8.07368	0.1183162	0.22079243	2.7111066	21	—	—
442792 2012 XS_{152}	17.5	X	100.45368	75.26338	3.20949	5.31465	0.2011927	0.25791569	2.4442796	21	3 13.9	20.4
442793 2012 XJ_{154}	15.8	X	71.62400	331.12503	295.68770	9.89299	0.0875477	0.17948072	3.1126063	21	9 21.3	20.4
442794 2012 YU_{1}	15.9	X	146.99424	248.90154	273.90350	12.90865	0.2341515	0.17450890	3.1714485	21	8 14.8	21.5
442795 2013 AW_{7}	17.7	X	120.66636	247.13046	174.33960	0.77562	0.1578102	0.25584975	2.4574200	21	3 10.8	20.9
442796 2013 AY_{7}	18.2	X	161.43383	298.26275	121.40037	5.43200	0.2172094	0.27067367	2.3668571	21	4 26.9	22.0
442797 2013 AH_{8}	16.2	X	156.56068	278.00385	294.72003	8.00047	0.2338523	0.18661981	3.0327101	21	10 21.1	21.7
442798 2013 AX_{8}	17.6	X	77.99087	47.02514	20.68282	3.60819	0.1392744	0.24670713	2.5177634	21	1 15.3	20.3
442799 2013 AM_{14}	17.2	X	96.59142	43.24472	16.02371	4.52657	0.2266173	0.25187939	2.4831767	21	2 16.6	19.9
442800 2013 AS_{14}	15.5	X	95.58848	276.77829	315.63892	11.99371	0.2524847	0.17404217	3.1771159	21	9 24.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442801 2013 AZ_{18}	17.4	X	2.88708	125.72738	311.97579	4.90361	0.1129338	0.22308127	2.6925305	21	—	—
442802 2013 AN_{19}	17.0	X	314.91030	11.23410	110.70068	10.67910	0.1367561	0.21872797	2.7281390	21	—	—
442803 2013 AZ_{22}	16.7	X	176.62627	31.96051	131.48070	6.77588	0.0998347	0.18217563	3.0818337	21	9 16.3	21.5
442804 2013 AJ_{28}	16.6	X	66.67310	220.60077	143.67326	6.81207	0.0390243	0.21335808	2.7737244	21	—	—
442805 2013 AL_{28}	16.5	X	18.43387	296.10890	136.16369	12.53696	0.1711390	0.22388381	2.6860923	21	—	—
442806 2013 AO_{28}	16.7	X	233.01368	141.21841	348.38184	8.39981	0.1452316	0.19540706	2.9410961	21	9 26.5	21.1
442807 2013 AQ_{28}	16.7	X	327.76261	57.48135	85.17161	14.49146	0.2021337	0.22666716	2.6640579	21	—	—
442808 2013 AH_{33}	16.9	X	44.54394	41.45851	47.64537	8.46545	0.1568665	0.23823818	2.5770834	21	—	—
442809 2013 AY_{38}	18.4	X	221.64569	119.62332	284.12321	1.03657	0.2361287	0.28804745	2.2707014	21	5 23.8	22.2
442810 2013 AH_{41}	17.7	X	149.54787	259.83207	115.59927	2.37288	0.1871968	0.25381939	2.4705075	21	2 16.6	21.2
442811 2013 AV_{41}	17.0	X	54.42175	127.09058	326.45111	13.41604	0.0473016	0.24042281	2.5614483	21	1 8.9	20.3
442812 2013 AQ_{43}	16.9	X	356.37376	343.39830	108.28430	14.80890	0.2137060	0.22421729	2.6834282	21	—	—
442813 2013 AM_{44}	17.2	X	336.05383	331.70657	107.72085	4.76624	0.0751294	0.21003620	2.8028937	21	12 25.9	20.6
442814 2013 AD_{46}	16.7	X	353.53861	74.85373	350.87922	3.74766	0.0901482	0.21203852	2.7852203	21	—	—
442815 2013 AK_{46}	17.8	X	243.14480	263.35503	83.34626	8.57700	0.1900144	0.28339448	2.2954885	21	4 6.9	21.5
442816 2013 AJ_{52}	16.5	X	326.81227	129.61516	333.81836	13.19157	0.1761299	0.21956026	2.7212403	21	—	—
442817 2013 AE_{55}	17.1	X	336.68384	90.04589	359.89170	6.22622	0.0155804	0.21755659	2.7379230	21	—	—
442818 2013 AJ_{55}	16.8	X	78.31155	293.77972	87.78994	12.77028	0.1382077	0.23251813	2.6191769	21	—	—
442819 2013 AN_{58}	16.5	X	337.15567	355.00637	121.68456	13.34029	0.0987591	0.22352966	2.6889286	21	—	—
442820 2013 AF_{61}	17.2	X	126.42268	130.40617	283.23091	12.55391	0.1413871	0.25831300	2.4417726	21	2 26.3	20.7
442821 2013 AR_{63}	15.0	X	124.47531	251.27139	289.23664	21.08332	0.0585071	0.17400627	3.1775528	21	8 3.3	19.9
442822 2013 AL_{64}	17.2	X	49.75648	321.53156	114.29265	10.58750	0.0595563	0.23774609	2.5806382	21	—	—
442823 2013 AR_{68}	16.9	X	52.12302	146.05110	261.02235	11.17032	0.1112866	0.23094312	2.6310718	21	—	—
442824 2013 AP_{73}	17.8	X	104.05188	161.16317	284.69155	1.77355	0.1837222	0.25891078	2.4380127	21	3 24.4	20.9
442825 2013 AY_{75}	16.9	X	290.30570	67.01025	88.27388	4.47583	0.1337447	0.21751097	2.7383058	21	—	—
442826 2013 AE_{78}	16.8	X	333.97295	4.09204	92.69485	10.80977	0.1717888	0.21823260	2.7322659	21	—	—
442827 2013 AV_{78}	17.0	X	104.33522	110.85588	264.85474	9.28817	0.1960738	0.23902852	2.5713996	21	—	—
442828 2013 AT_{81}	16.4	X	127.88280	293.42495	302.13788	10.79521	0.1571870	0.19106359	2.9855024	21	10 21.5	21.5
442829 2013 AU_{81}	17.8	X	107.78419	354.23166	83.40805	2.32886	0.1580413	0.25854962	2.4402826	21	3 16.8	20.9
442830 2013 AE_{82}	16.4	X	128.80486	280.21084	299.99932	9.92453	0.1692692	0.18598519	3.0396049	21	10 4.2	21.5
442831 2013 AD_{83}	17.1	X	150.84895	138.14369	114.23149	5.41707	0.0097779	0.20946276	2.8080069	21	12 8.6	21.0
442832 2013 AG_{85}	17.4	X	175.93152	262.80849	98.60157	7.14955	0.1359581	0.25798355	2.4438509	21	2 22.3	21.1
442833 2013 AP_{87}	16.6	X	127.50009	285.37261	310.68762	8.48320	0.0627028	0.19551935	2.9399699	21	10 17.6	21.1
442834 2013 AP_{88}	17.2	X	34.34394	91.73691	32.90626	8.72264	0.1810591	0.24351094	2.5397467	21	1 16.1	19.6
442835 2013 AC_{93}	16.8	X	1.62193	330.81576	123.84293	34.41922	0.2125826	0.22984209	2.6394676	21	—	—
442836 2013 AE_{94}	17.5	X	166.69201	335.10177	57.58438	2.15655	0.1890052	0.26611715	2.3937978	21	3 25.7	21.3
442837 2013 AZ_{96}	18.1	X	208.69585	254.00128	134.69417	6.36530	0.2100378	0.28090683	2.3090208	21	4 27.5	21.9
442838 2013 AN_{97}	15.9	X	335.97535	96.21463	284.95414	7.99895	0.0144112	0.19189791	2.9768427	21	10 4.4	20.1
442839 2013 AB_{100}	17.5	X	127.09574	34.16678	354.31026	1.08280	0.1882771	0.25477101	2.4643518	21	2 8.4	20.7
442840 2013 AZ_{100}	16.1	X	110.95094	259.54310	307.05909	11.97344	0.2338390	0.17373228	3.1808929	21	9 6.7	21.4
442841 2013 AK_{103}	16.0	X	170.88993	42.46793	116.03103	17.52310	0.0501898	0.17997210	3.1069380	21	9 7.3	20.8
442842 2013 AR_{108}	16.1	X	105.76669	324.91840	291.00840	10.06715	0.0793906	0.19109398	2.9851859	21	10 18.4	20.7
442843 2013 AF_{113}	16.0	X	345.75434	61.11285	280.41950	7.50751	0.1180109	0.18831320	3.0145018	21	8 26.7	19.6
442844 2013 AP_{116}	17.7	X	195.86287	56.95024	339.08247	6.57799	0.2026992	0.27351648	2.3504285	21	4 20.9	21.7
442845 2013 AH_{117}	16.3	X	99.66884	272.10583	322.32713	16.22736	0.1000832	0.18116686	3.0932632	21	9 15.0	21.0
442846 2013 AR_{118}	17.1	X	322.48748	60.17916	61.44191	5.65288	0.1836686	0.22247940	2.6973844	21	—	—
442847 2013 AR_{119}	17.0	X	179.27369	234.76895	106.72745	5.52385	0.2357095	0.25663384	2.4524120	21	2 5.8	21.0
442848 2013 AY_{120}	17.8	X	227.80301	39.47807	278.33727	4.55200	0.1427069	0.26761945	2.3848310	21	2 12.7	21.6
442849 2013 AA_{122}	16.7	X	100.45515	239.31531	103.47866	5.98606	0.0526563	0.22050094	2.7134954	21	—	—
442850 2013 AN_{122}	16.5	X	143.90617	311.63215	335.47711	6.96817	0.2010519	0.21248846	2.7812871	21	—	—
442851 2013 AX_{123}	17.6	X	81.42209	319.90880	88.24840	4.47029	0.1739981	0.24073499	2.5592335	21	—	—
442852 2013 AC_{125}	17.3	X	329.53130	101.69614	9.32566	4.19312	0.0772951	0.21951944	2.7215777	21	—	—
442853 2013 AE_{126}	16.8	X	83.22912	74.19340	331.98999	11.23584	0.1794432	0.24392327	2.5368837	21	1 1.4	19.5
442854 2013 AR_{126}	17.0	X	30.22747	106.93748	286.87755	5.86918	0.0594498	0.22069419	2.7119111	21	—	—
442855 2013 AH_{130}	17.0	X	339.76857	98.04905	348.95799	2.83080	0.0955277	0.21598693	2.7511719	21	—	—
442856 2013 AY_{131}	17.0	X	340.94498	6.42362	121.05141	6.57296	0.1342743	0.22412306	2.6841803	21	—	—
442857 2013 AF_{135}	17.4	X	129.09588	186.47418	200.26948	2.27657	0.2274443	0.25133367	2.4867699	21	2 13.1	21.0
442858 2013 AQ_{136}	17.8	X	123.66869	98.36171	284.72965	1.80703	0.1591241	0.24559614	2.5253506	21	1 25.4	21.2
442859 2013 AZ_{137}	17.2	X	295.23479	227.04061	235.94415	0.79867	0.0354648	0.20902614	2.8119158	21	11 28.9	20.9
442860 2013 AB_{150}	16.4	X	67.20374	115.83395	147.64891	16.57881	0.2143700	0.18109238	3.0941113	21	10 9.6	21.0
442861 2013 AH_{161}	17.2	X	78.48895	167.20475	193.77942	8.68289	0.1271827	0.22448480	2.6812960	21	—	—
442862 2013 AN_{162}	16.3	X	303.92996	199.47094	242.81354	10.68126	0.0113133	0.20294596	2.8678016	21	11 14.6	20.1
442863 2013 AX_{165}	17.0	X	173.82025	135.24870	160.14467	14.36279	0.1869334	0.22853760	2.6495022	21	—	—
442864 2013 AO_{166}	16.5	X	95.92013	99.66637	159.02044	11.89596	0.0522284	0.19143047	2.9816867	21	10 15.4	20.9
442865 2013 AP_{171}	16.8	X	75.42768	85.45042	202.69654	10.74506	0.0800458	0.19465350	2.9486818	21	10 29.2	21.0
442866 2013 AR_{173}	16.6	X	79.14545	74.43477	170.07875	10.27272	0.0924325	0.17963568	3.1108159	21	9 8.4	21.0
442867 2013 AT_{174}	16.8	X	104.48585	220.34656	151.62069	24.53528	0.1334494	0.23691204	2.5866915	21	—	—
442868 2013 AY_{178}	16.8	X	101.89645	141.30367	243.76447	12.03303	0.1500845	0.24117569	2.5561149	21	—	—
442869 2013 BH_{9}	17.4	X	15.21020	354.40527	87.30067	4.06935	0.0798350	0.22818182	2.6522555	21	—	—
442870 2013 BL_{9}	15.9	X	42.71626	323.53265	308.14999	15.67557	0.1996692	0.17654151	3.1470585	21	9 3.8	20.0
442871 2013 BY_{13}	16.6	X	109.52417	96.36148	128.73134	11.52588	0.0423712	0.18358292	3.0660639	21	9 18.2	21.1
442872 2013 BB_{15}	17.7	X	245.44475	274.28601	279.16855	0.70267	0.0130709	0.21914132	2.7247073	21	—	—
442873 2013 BE_{15}	16.8	X	19.82727	137.56719	299.90863	7.70182	0.0586712	0.22696743	2.6617077	21	—	—
442874 2013 BJ_{15}	17.4	X	159.21910	162.53767	133.78980	4.35138	0.0684054	0.22403045	2.6849200	21	—	—
442875 2013 BA_{24}	16.2	X	164.35774	229.15653	290.29863	8.75798	0.0680238	0.18060530	3.0996718	21	8 24.3	20.9
442876 2013 BE_{24}	17.1	X	311.01971	7.35937	121.19137	12.90485	0.0701099	0.21988698	2.7185440	21	—	—
442877 2013 BX_{25}	16.3	X	30.97271	264.63142	131.31108	10.44807	0.1921136	0.21656371	2.7462849	21	—	—
442878 2013 BG_{29}	17.2	X	52.82494	357.37510	73.87257	10.09920	0.1404771	0.23504063	2.6004035	21	—	—
442879 2013 BN_{33}	17.2	X	19.19654	303.53527	143.00638	6.16933	0.2027692	0.23138272	2.6277382	21	—	—
442880 2013 BS_{35}	17.4	X	356.18722	7.84218	120.65663	16.09604	0.0366725	0.23465814	2.6032286	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442881 2013 BX_{37}	17.9	X	117.63628	251.20332	176.95925	1.06422	0.1567220	0.25938635	2.4350318	21	3 15.2	21.1
442882 2013 BU_{38}	16.2	X	260.52754	279.42752	122.82400	10.27897	0.0868742	0.17834537	3.1258022	21	7 17.9	20.6
442883 2013 BY_{38}	17.3	X	68.53469	286.47128	133.18966	15.24957	0.0822895	0.23682623	2.5873162	21	—	—
442884 2013 BB_{39}	15.9	X	110.79295	310.64780	297.06438	13.38880	0.1728301	0.18613132	3.0380139	21	10 19.7	21.1
442885 2013 BU_{43}	17.4	X	283.43423	37.73717	77.14896	2.98376	0.0170785	0.20541352	2.8447889	21	11 29.6	21.3
442886 2013 BK_{47}	16.9	X	73.37379	357.99668	340.92950	5.76324	0.0745626	0.21354052	2.7721444	21	12 30.3	20.9
442887 2013 BS_{47}	17.3	X	71.46480	283.68449	90.47707	7.16059	0.0485490	0.22391346	2.6858551	21	—	—
442888 2013 BU_{47}	16.8	X	151.88862	186.98444	351.61231	3.82145	0.0876440	0.18206017	3.0831365	21	9 7.7	21.5
442889 2013 BE_{56}	17.0	X	40.80666	297.97632	128.85100	13.77821	0.1392865	0.23302988	2.6153409	21	—	—
442890 2013 BN_{59}	17.0	X	323.64305	101.60866	342.73294	3.75187	0.0345962	0.21107807	2.7936627	21	12 13.9	20.6
442891 2013 BN_{60}	16.9	X	85.37702	87.46392	321.74100	15.11930	0.0721702	0.23561544	2.5961725	21	—	—
442892 2013 BX_{63}	16.4	X	149.08936	243.18190	329.88245	14.34228	0.0198646	0.18749438	3.0232720	21	10 8.3	21.0
442893 2013 BJ_{69}	17.2	X	53.92703	90.55084	322.26320	9.74574	0.1321630	0.23132102	2.6282055	21	—	—
442894 2013 BL_{72}	16.8	X	28.78212	268.33155	152.30987	14.81513	0.0908027	0.22355983	2.6886867	21	—	—
442895 2013 BR_{73}	16.3	X	314.25473	111.53181	318.56948	14.12370	0.1256593	0.20337797	2.8637391	21	10 30.3	20.0
442896 2013 BQ_{75}	17.5	X	146.68847	325.06198	76.66843	3.85866	0.1672520	0.25837872	2.4413585	21	3 17.7	21.0
442897 2013 BE_{76}	17.7	X	120.38052	81.54711	313.24516	10.20684	0.0973176	0.24518668	2.5281614	21	1 27.9	20.8
442898 2013 CF	17.3	X	115.32252	283.20382	155.73349	5.36555	0.1627676	0.25895624	2.4377274	21	3 29.1	20.4
442899 2013 CE_{3}	15.6	X	164.20171	44.19973	143.50978	28.70559	0.1181208	0.17823947	3.1270401	21	10 6.8	20.9
442900 2013 CH_{9}	17.1	X	353.11434	283.79541	186.23639	9.54753	0.1379459	0.22371709	2.6874266	21	—	—
442901 2013 CJ_{9}	16.3	X	252.32566	61.31615	167.19660	14.55904	0.1146076	0.22231186	2.6987395	21	—	—
442902 2013 CZ_{9}	15.8	X	229.83970	287.55201	132.07177	17.12449	0.1273799	0.17330121	3.1861654	21	7 1.3	20.9
442903 2013 CT_{10}	16.6	X	344.54892	86.13258	104.81500	9.66528	0.0552095	0.24126421	2.5554896	21	2 3.8	19.9
442904 2013 CB_{11}	17.1	X	339.31960	319.12057	87.37733	4.61313	0.0654942	0.20029993	2.8930028	21	11 16.9	20.7
442905 2013 CQ_{12}	16.9	X	80.93572	78.42693	328.32314	25.86454	0.2246136	0.23860650	2.5744307	21	1 12.9	19.9
442906 2013 CV_{12}	16.6	X	127.84012	91.35263	125.91060	7.56308	0.0353426	0.18337280	3.0684056	21	9 28.9	21.1
442907 2013 CK_{15}	17.2	X	73.75316	296.90102	134.85891	9.89657	0.1079116	0.23884980	2.5726821	21	1 11.1	20.1
442908 2013 CC_{16}	16.9	X	68.28935	27.43877	343.45346	5.61506	0.0612844	0.21454819	2.7634576	21	—	—
442909 2013 CS_{19}	16.1	X	131.24940	208.08569	120.54452	33.69981	0.1864581	0.23148964	2.6269291	21	—	—
442910 2013 CR_{20}	17.0	X	354.70917	313.57167	99.13403	2.88096	0.0596868	0.20980028	2.8049945	21	12 17.9	20.5
442911 2013 CH_{25}	17.0	X	118.98074	81.26400	305.24802	14.08463	0.1477505	0.24240812	2.5474438	21	1 23.3	20.3
442912 2013 CR_{26}	16.6	X	135.64584	264.59413	310.02101	12.08508	0.1157325	0.18213199	3.0823259	21	9 29.7	21.7
442913 2013 CA_{31}	16.0	X	7.65740	328.32109	344.30888	8.86636	0.0894793	0.17483550	3.1674977	21	8 27.1	19.9
442914 2013 CA_{33}	15.7	X	18.09454	306.15637	341.28296	8.96145	0.0123246	0.16964756	3.2317491	21	8 5.6	20.2
442915 2013 CU_{36}	16.2	X	174.29290	11.27800	132.37884	17.95401	0.1370239	0.17556858	3.1586744	21	8 19.2	21.3
442916 2013 CL_{39}	16.8	X	70.47332	71.36791	338.43402	14.19116	0.0863833	0.23087953	2.6315549	21	—	—
442917 2013 CU_{39}	17.6	X	38.31013	12.55867	61.03678	2.58154	0.0787795	0.22774929	2.6556124	21	—	—
442918 2013 CZ_{39}	16.5	X	129.44966	29.91206	333.17144	14.05913	0.1104462	0.23423210	2.6063843	21	1 5.3	20.2
442919 2013 CH_{42}	16.3	X	351.06614	52.96846	279.86596	8.64558	0.0332524	0.17451613	3.1713609	21	8 22.7	20.8
442920 2013 CG_{43}	17.3	X	14.15529	327.14923	93.87551	4.65670	0.0814167	0.21639850	2.7476826	21	—	—
442921 2013 CY_{44}	17.7	X	77.58513	321.70018	92.83799	4.33336	0.1210755	0.23464140	2.6033524	21	—	—
442922 2013 CM_{45}	16.3	X	106.07744	285.63909	333.79418	10.41501	0.1142781	0.18528450	3.0472634	21	10 25.7	21.1
442923 2013 CA_{48}	15.9	X	130.80490	208.48530	354.78770	7.78941	0.1076402	0.17242397	3.1969631	21	9 16.4	20.7
442924 2013 CW_{48}	18.0	X	215.12227	165.81917	240.21240	2.37172	0.2292479	0.28719976	2.2751673	21	5 21.7	21.7
442925 2013 CF_{49}	17.1	X	208.44037	289.36096	54.38123	2.26751	0.1977899	0.26268826	2.4145838	21	3 2.4	21.1
442926 2013 CS_{49}	15.9	X	234.80607	167.35771	299.20919	11.82178	0.0546237	0.18309477	3.0715111	21	9 5.7	20.5
442927 2013 CQ_{51}	17.1	X	229.58441	260.67224	321.44085	3.92158	0.0307002	0.21671844	2.7449776	21	—	—
442928 2013 CL_{52}	17.1	X	55.52819	318.53546	121.27380	5.75735	0.1617967	0.23463458	2.6034028	21	—	—
442929 2013 CH_{64}	16.1	X	61.59870	321.71812	294.86199	8.59492	0.0669161	0.17221630	3.1995326	21	8 25.3	20.5
442930 2013 CQ_{64}	16.9	X	80.59224	79.76867	294.74588	4.85427	0.0416633	0.22030554	2.7150996	21	—	—
442931 2013 CW_{64}	16.1	X	229.21433	144.89463	305.96789	9.67550	0.0569103	0.17580206	3.1558771	21	8 13.6	20.8
442932 2013 CY_{64}	15.9	X	62.01623	102.36761	155.15542	17.94997	0.1007314	0.17088155	3.2161720	21	9 4.5	20.2
442933 2013 CA_{66}	16.7	X	21.31839	117.24493	313.35259	5.24342	0.1216494	0.22113210	2.7083296	21	—	—
442934 2013 CE_{66}	16.8	X	20.21086	122.52066	320.90497	12.34913	0.2342113	0.22791605	2.6543169	21	—	—
442935 2013 CR_{70}	17.2	X	11.52660	307.21758	155.30275	12.50923	0.1408284	0.23012151	2.6373306	21	—	—
442936 2013 CL_{71}	16.3	X	46.84390	3.40471	298.09432	15.34714	0.0735898	0.18602711	3.0391483	21	9 28.1	20.8
442937 2013 CN_{72}	17.0	X	109.85234	220.03446	147.25061	14.64723	0.1203383	0.23452057	2.6042465	21	—	—
442938 2013 CG_{74}	16.1	X	173.52584	165.01222	345.87067	9.81511	0.0197340	0.17431679	3.1737782	21	8 28.1	20.6
442939 2013 CO_{74}	17.5	X	206.54819	272.73710	148.19346	22.46390	0.2875431	0.28489325	2.2874307	21	6 5.9	22.0
442940 2013 CZ_{74}	16.6	X	216.62001	33.42228	108.90284	10.86345	0.0487347	0.18866136	3.0107919	21	10 10.8	21.1
442941 2013 CH_{75}	16.3	X	131.42597	59.24166	151.33308	16.40743	0.1393112	0.17691286	3.1426531	21	10 1.3	21.4
442942 2013 CP_{76}	16.1	X	172.71270	63.90218	109.06599	11.94962	0.0110478	0.18211838	3.0824795	21	9 28.9	20.7
442943 2013 CZ_{86}	15.6	X	158.50842	200.92960	337.58704	16.33702	0.1446886	0.17550260	3.1594659	21	9 12.1	20.8
442944 2013 CQ_{87}	16.5	X	86.56716	68.78523	181.00639	10.65990	0.1312589	0.17407798	3.1766802	21	9 28.9	21.1
442945 2013 CL_{90}	16.7	X	24.89103	91.81506	351.07295	12.41174	0.1512187	0.22578191	2.6710168	21	—	—
442946 2013 CM_{90}	15.9	X	174.03680	25.96563	131.24164	14.37000	0.2181948	0.17550600	3.1594252	21	9 5.2	21.4
442947 2013 CM_{95}	16.7	X	247.00053	142.51134	322.47370	8.97770	0.0685933	0.18655071	3.0334588	21	9 18.9	21.1
442948 2013 CH_{99}	16.5	X	102.66279	326.81096	321.92220	10.70572	0.0868916	0.19345330	2.9608651	21	11 27.2	21.1
442949 2013 CJ_{100}	17.5	X	68.64855	91.61037	313.03948	3.30908	0.0961122	0.22812156	2.6527226	21	—	—
442950 2013 CM_{103}	16.8	X	355.41121	331.36489	122.86646	12.21246	0.0447308	0.21824356	2.7321744	21	—	—
442951 2013 CU_{104}	15.9	X	107.27777	246.03023	344.17991	10.27877	0.0450080	0.17901923	3.1179532	21	9 17.0	20.4
442952 2013 CZ_{104}	16.9	X	291.62438	231.03054	313.04610	1.59983	0.0299900	0.22502502	2.6770029	21	—	—
442953 2013 CA_{114}	16.9	X	21.27955	121.56915	325.44299	7.54410	0.1376561	0.22493133	2.6777463	21	—	—
442954 2013 CL_{115}	15.5	X	119.90446	72.26850	160.74894	18.27239	0.1161010	0.17581084	3.1557720	21	10 15.5	20.5
442955 2013 CF_{116}	16.0	X	43.02479	12.42720	353.16432	11.70026	0.0751011	0.20153019	2.8812171	21	12 24.2	20.1
442956 2013 CW_{116}	15.9	X	151.56320	184.94170	359.61137	12.11632	0.1500898	0.17463584	3.1699114	21	9 16.6	21.0
442957 2013 CK_{119}	17.1	X	61.87089	7.03316	80.27677	4.15611	0.0339144	0.23134780	2.6280027	21	1 10.6	20.4
442958 2013 CG_{121}	17.2	X	302.94954	61.35479	71.90822	10.62912	0.1351245	0.21593863	2.7515821	21	—	—
442959 2013 CA_{123}	16.2	X	119.58725	41.45242	133.65973	11.79546	0.1057967	0.16903997	3.2394885	21	7 31.6	21.1
442960 2013 CQ_{123}	16.6	X	183.89599	157.17464	341.79820	9.95722	0.1541541	0.17323533	3.1869732	21	8 22.3	21.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
442961 2013 CS_{124}	15.8	X	58.27002	175.80609	128.32246	10.02046	0.0244597	0.18519814	3.0482107	21	10 22.5	20.2
442962 2013 CG_{125}	16.9	X	73.08242	348.89090	92.22351	5.98385	0.1552572	0.24022383	2.5628626	21	1 29.6	19.5
442963 2013 CN_{125}	16.0	X	149.56903	94.33210	85.52291	6.62814	0.1288816	0.17166287	3.2064056	21	9 10.7	21.2
442964 2013 CB_{126}	16.1	X	156.64306	133.57272	40.89428	4.80252	0.0882413	0.17168916	3.2060783	21	9 8.8	21.0
442965 2013 CP_{130}	16.2	X	188.79775	189.59514	337.04229	10.48124	0.0891190	0.18180564	3.0860134	21	9 27.5	21.0
442966 2013 CC_{131}	16.0	X	19.56483	23.90734	324.06008	10.42171	0.0661335	0.18801936	3.0176417	21	10 22.9	20.3
442967 2013 CF_{131}	16.8	X	249.75111	21.15712	172.85236	5.09920	0.0922133	0.21025406	2.8009571	21	—	—
442968 2013 CG_{134}	15.4	X	99.72677	62.04070	109.55926	14.85020	0.1639108	0.15607964	3.4164250	21	7 12.4	20.5
442969 2013 CV_{135}	16.7	X	350.93318	106.55614	54.45888	13.44826	0.1343369	0.23931145	2.5693724	21	—	—
442970 2013 CH_{136}	16.2	X	344.22994	123.93174	8.95769	14.39132	0.1202981	0.22581604	2.6707477	21	—	—
442971 2013 CK_{136}	16.7	X	85.29852	69.84271	12.83183	13.62461	0.1498688	0.24592833	2.5230760	21	2 24.2	19.7
442972 2013 CB_{137}	16.5	X	105.23698	63.16762	306.62723	5.39638	0.0463195	0.22302437	2.6929885	21	—	—
442973 2013 CZ_{137}	16.7	X	358.52811	92.23385	355.65991	10.21911	0.1669574	0.21554111	2.7549643	21	—	—
442974 2013 CJ_{141}	16.7	X	196.33635	194.71676	340.08609	13.51473	0.0310538	0.19116348	2.9844623	21	10 17.7	21.2
442975 2013 CV_{141}	17.5	X	44.01790	304.22968	93.96290	5.65485	0.1930795	0.22115453	2.7081465	21	—	—
442976 2013 CB_{147}	16.6	X	72.16943	274.72939	98.21579	5.27800	0.1153817	0.21433649	2.7652770	21	—	—
442977 2013 CO_{149}	17.3	X	88.43996	90.92204	352.24130	12.99465	0.1157960	0.24363620	2.5388761	21	2 22.1	20.3
442978 2013 CL_{150}	16.3	X	59.86954	144.15177	148.63106	10.43523	0.0745694	0.17841401	3.1250005	21	10 15.7	20.7
442979 2013 CH_{151}	16.5	X	25.36081	168.72720	147.39111	11.41718	0.0437400	0.17527899	3.1621524	21	9 24.3	20.8
442980 2013 CX_{154}	15.6	X	41.96814	163.15765	148.12021	16.37156	0.0820443	0.18157516	3.0886244	21	10 18.6	20.0
442981 2013 CB_{155}	16.3	X	344.46405	51.55478	339.06731	7.68439	0.0582522	0.19084322	2.9878003	21	10 29.0	20.3
442982 2013 CP_{155}	16.8	X	2.59634	268.85854	142.65964	6.80625	0.0586980	0.20390019	2.8588473	21	12 25.9	20.5
442983 2013 CQ_{158}	16.7	X	73.08080	200.46294	164.86743	11.01290	0.1286561	0.20916423	2.8106781	21	—	—
442984 2013 CP_{159}	16.3	X	343.09548	82.65394	340.32794	9.92250	0.1291305	0.20337413	2.8637751	21	12 16.3	19.8
442985 2013 CK_{161}	16.7	X	286.28731	101.81806	350.87134	8.75938	0.0747586	0.19157113	2.9802270	21	10 24.0	20.7
442986 2013 CK_{165}	16.7	X	37.21130	251.84145	170.53466	6.35764	0.0266746	0.21431955	2.7654227	21	—	—
442987 2013 CN_{165}	17.0	X	213.92707	54.55907	76.74633	3.57856	0.0729616	0.17985424	3.1082952	21	9 17.3	21.6
442988 2013 CK_{166}	15.9	X	304.59804	51.29431	13.85596	10.77828	0.0979038	0.19011563	2.9954185	21	10 14.4	19.5
442989 2013 CB_{170}	16.7	X	223.15471	150.42842	318.17504	7.30993	0.1280430	0.17833688	3.1259014	21	8 22.5	21.6
442990 2013 CV_{173}	17.4	X	168.75266	233.84562	172.78784	2.62825	0.1928801	0.26077313	2.4263912	21	4 14.5	21.3
442991 2013 CO_{174}	16.0	X	339.63093	23.33203	331.81177	10.87330	0.0830512	0.17448769	3.1717055	21	9 5.4	20.0
442992 2013 CT_{176}	17.7	X	167.21775	104.07743	312.00062	5.75218	0.1606069	0.27090797	2.3654922	21	4 19.1	21.4
442993 2013 CQ_{177}	16.8	X	105.93064	58.19605	319.86165	14.09292	0.1442441	0.23184397	2.6242518	21	—	—
442994 2013 CM_{179}	16.8	X	18.73078	343.08176	72.74511	4.53623	0.1893407	0.21814834	2.7329694	21	—	—
442995 2013 CM_{180}	16.5	X	190.93952	193.52895	304.48150	8.60938	0.0964540	0.17716659	3.1396519	21	8 26.1	21.4
442996 2013 CV_{180}	15.7	X	264.18955	96.97404	323.01173	14.95701	0.0240132	0.17530600	3.1618277	21	8 22.1	20.2
442997 2013 CE_{181}	16.5	X	341.27648	11.14346	156.34937	11.89529	0.0711662	0.23041419	2.6350968	21	—	—
442998 2013 CR_{181}	17.3	X	91.77747	92.38593	330.03675	5.36527	0.2229199	0.24600213	2.5225714	21	2 12.6	20.1
442999 2013 CO_{183}	16.9	X	28.01246	55.44295	60.79397	8.55349	0.1553205	0.24032013	2.5621779	21	—	—
443000 2013 CA_{187}	16.2	X	122.73782	68.85246	126.02489	17.51748	0.0196948	0.17291353	3.1909260	21	8 22.3	20.8
443001 2013 CV_{191}	16.1	X	323.84472	80.97604	321.20677	8.46757	0.0613384	0.17978370	3.1091082	21	10 11.4	20.4
443002 2013 CO_{193}	16.4	X	250.64363	8.64042	170.95260	20.30686	0.0786940	0.20652965	2.8345304	21	12 29.8	20.7
443003 2013 CA_{194}	17.3	X	309.18420	91.43482	25.94277	6.88725	0.0833785	0.21134903	2.7912745	21	—	—
443004 2013 CU_{194}	16.4	X	342.43968	34.55256	344.32779	8.88095	0.0949082	0.19089195	2.9872918	21	10 11.2	20.2
443005 2013 CL_{195}	18.0	X	58.70092	83.87525	351.42081	3.22406	0.2058163	0.23762798	2.5814932	21	—	—
443006 2013 CX_{195}	15.7	X	51.98126	148.36178	143.44010	28.31976	0.1832482	0.17606523	3.1527315	21	10 24.5	20.6
443007 2013 CV_{198}	15.9	X	184.46798	271.05790	281.54162	8.40730	0.0292518	0.18911990	3.0059233	21	10 28.5	20.4
443008 2013 CS_{199}	16.7	X	124.98686	149.96381	73.06903	6.08418	0.0777172	0.18222096	3.0813225	21	10 5.8	21.3
443009 2013 CU_{201}	16.7	X	124.17141	20.88082	335.29208	17.80129	0.2083546	0.23123956	2.6288227	21	1 5.9	20.6
443010 2013 CE_{212}	16.8	X	227.88939	156.98107	317.04096	4.45829	0.1199229	0.18120865	3.0927876	21	9 3.8	21.4
443011 2013 CQ_{214}	17.1	X	283.16778	39.44009	161.14187	12.82105	0.0442276	0.22507018	2.6766448	21	—	—
443012 2013 CE_{216}	16.3	X	296.40877	116.73639	297.20600	9.69417	0.0505857	0.18441659	3.0568167	21	9 18.6	20.6
443013 2013 DO_{2}	16.1	X	180.48075	149.61449	348.77211	10.13063	0.0359691	0.17202636	3.2018874	21	8 21.3	20.8
443014 2013 DT_{2}	17.6	X	73.33013	87.84059	350.21584	3.21336	0.1919100	0.24296360	2.5435595	21	1 29.6	19.9
443015 2013 DS_{7}	16.4	X	104.47558	272.03127	127.40083	29.88404	0.1695013	0.24204636	2.5499814	21	1 23.8	19.5
443016 2013 DD_{11}	16.4	X	97.34699	310.40590	348.85332	11.87663	0.0843871	0.19898184	2.9057645	21	12 4.7	20.9
443017 2013 DL_{11}	15.8	X	169.80604	201.01586	341.14934	14.77836	0.1381231	0.18250474	3.0781275	21	9 25.7	20.8
443018 2013 EN_{4}	16.3	X	355.37413	128.48231	232.16250	7.46002	0.0309230	0.18478901	3.0527082	21	10 5.5	20.4
443019 2013 EG_{10}	15.8	X	147.57755	253.55204	331.21820	14.59932	0.0382040	0.18132533	3.0914607	21	10 20.4	20.6
443020 2013 EX_{10}	15.3	X	59.32509	351.93429	319.08835	21.69896	0.1158749	0.18640552	3.0350339	21	10 31.1	20.1
443021 2013 EE_{13}	16.7	X	111.50293	258.48185	352.50568	9.64032	0.0445524	0.18272594	3.0756429	21	10 16.1	21.2
443022 2013 EK_{13}	16.7	X	19.68898	356.78197	24.20232	2.17269	0.0670446	0.19824443	2.9129658	21	12 10.3	20.6
443023 2013 EM_{14}	16.3	X	167.15353	338.48693	160.55450	18.15406	0.0833661	0.16692795	3.2667558	21	8 3.5	21.5
443024 2013 EX_{15}	16.5	X	1.11094	12.07416	358.48767	15.27840	0.0370385	0.18657085	3.0332405	21	10 23.0	20.7
443025 2013 EX_{22}	16.4	X	27.78882	64.97134	275.79048	8.63284	0.1060630	0.18897477	3.0074622	21	11 1.8	20.5
443026 2013 EY_{23}	17.0	X	344.93528	302.38523	150.32409	9.88140	0.1409610	0.21125809	2.7920755	21	—	—
443027 2013 ED_{24}	15.6	X	322.99703	168.04223	79.66093	6.82126	0.1710372	0.12538732	3.9533655	21	3 24.4	20.8
443028 2013 EM_{25}	17.0	X	26.29406	277.86921	166.31128	11.56227	0.1712449	0.22250038	2.6972148	21	—	—
443029 2013 EY_{32}	16.5	X	283.27948	36.82399	149.74652	4.54660	0.0077955	0.21932145	2.7232153	21	—	—
443030 2013 ET_{34}	16.2	X	5.54462	338.03827	93.23225	3.19501	0.0452420	0.20627377	2.8368740	21	—	—
443031 2013 EP_{36}	16.2	X	55.65186	194.39699	120.18799	3.47715	0.0792437	0.18135097	3.0911693	21	11 5.2	20.4
443032 2013 EY_{36}	16.1	X	174.41846	163.62070	3.87955	15.21515	0.1305121	0.17466807	3.1695215	21	9 17.9	21.1
443033 2013 EB_{40}	16.1	X	84.51680	117.67354	141.43834	11.90965	0.0873785	0.18030741	3.1030850	21	10 6.6	20.7
443034 2013 EJ_{43}	16.2	X	147.39683	211.88977	345.97745	10.67947	0.0037479	0.17616115	3.1515869	21	9 20.9	20.7
443035 2013 EJ_{59}	16.9	X	133.64520	163.19693	165.38057	4.93577	0.0665984	0.21277352	2.7788024	21	—	—
443036 2013 EN_{65}	16.1	X	207.23183	130.64860	352.82741	6.77842	0.0778537	0.17281557	3.1921318	21	8 29.7	20.9
443037 2013 EY_{65}	17.5	X	76.13754	258.65535	165.05689	8.89718	0.1525045	0.23914419	2.5705704	21	1 8.5	20.3
443038 2013 EZ_{67}	16.1	X	140.21148	19.34434	176.54064	9.21873	0.1433501	0.17091275	3.2157805	21	9 18.3	21.2
443039 2013 ET_{81}	16.8	X	92.92533	231.01653	154.55247	6.38130	0.0527501	0.21943364	2.7222870	21	—	—
443040 2013 EA_{90}	15.4	X	150.57305	226.92418	346.20337	22.82885	0.1105788	0.17778319	3.1323883	21	10 8.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443041 2013 EM_{94}	16.4	X	32.72570	318.76721	106.76533	12.15192	0.1935533	0.22123713	2.7074724	21	—	—
443042 2013 EN_{95}	16.8	X	95.35191	337.05644	24.31647	2.78801	0.0804155	0.21105207	2.7938921	21	—	—
443043 2013 ES_{101}	15.8	X	133.41237	304.45122	311.23693	8.23107	0.0511068	0.19015357	2.9950200	21	11 17.4	20.4
443044 2013 EX_{102}	17.4	X	35.34420	341.70599	127.22467	7.56184	0.2904233	0.23282981	2.6168389	21	—	—
443045 2013 EJ_{104}	15.8	X	138.44134	191.94091	22.01655	10.52548	0.0184712	0.17403979	3.1771448	21	10 3.6	20.3
443046 2013 EX_{104}	15.1	X	1.54192	233.24618	327.19877	10.22839	0.1659123	0.12541336	3.9528182	21	3 21.6	19.9
443047 2013 EX_{106}	15.6	X	166.22305	97.33812	106.97111	10.78793	0.0234518	0.18062533	3.0994427	21	10 28.6	20.2
443048 2013 EK_{109}	15.9	X	235.28557	305.17329	174.02843	5.42366	0.0880718	0.17844819	3.1246014	21	9 23.0	20.3
443049 2013 EK_{110}	16.2	X	78.74582	29.69911	301.02834	0.36805	0.0316678	0.19224022	2.9733078	21	12 16.5	20.3
443050 2013 EV_{111}	15.8	X	310.20928	338.33564	60.29598	8.59948	0.0110882	0.17077945	3.2174537	21	9 29.5	20.4
443051 2013 EA_{114}	17.1	X	54.60154	82.16319	30.24384	12.58312	0.2600101	0.24221709	2.5487830	21	2 25.8	19.3
443052 2013 EN_{119}	16.4	X	148.91911	255.86097	337.86894	8.26079	0.0889738	0.18523028	3.0478580	21	11 6.9	21.2
443053 2013 EP_{119}	16.4	X	64.79745	280.19850	170.54371	22.00191	0.0448866	0.22938823	2.6429480	21	1 18.2	20.2
443054 2013 ES_{126}	16.1	X	250.21338	67.92321	80.21607	15.48275	0.0785203	0.19042075	2.9922178	21	11 20.4	20.4
443055 2013 EP_{138}	17.2	X	331.20719	122.20229	330.38327	4.37890	0.0301968	0.21157926	2.7892492	21	—	—
443056 2013 FG_{6}	15.6	X	353.70291	269.51409	105.61216	23.08880	0.0591021	0.18119407	3.0929536	21	11 4.4	20.2
443057 2013 FU_{7}	15.5	X	13.56445	246.55454	87.96776	13.07170	0.0870376	0.17112888	3.2130724	21	10 9.2	19.9
443058 2013 FK_{11}	16.0	X	145.27972	91.17742	130.38407	11.24611	0.0358368	0.17902165	3.1179251	21	10 25.3	20.7
443059 2013 FP_{13}	16.3	X	190.31625	11.04262	150.33390	12.03896	0.0309982	0.17581604	3.1557098	21	10 1.4	21.0
443060 2013 FN_{15}	16.2	X	267.89648	280.90570	174.81560	12.64089	0.1823936	0.18435043	3.0575480	21	9 20.0	20.5
443061 2013 FB_{16}	16.2	X	233.24849	24.61563	108.22100	3.99551	0.0311429	0.17874773	3.1211096	21	10 16.2	20.6
443062 2013 FM_{16}	15.6	X	190.45381	150.60491	7.40215	8.96629	0.0537030	0.17229486	3.1985599	21	9 23.7	20.2
443063 2013 FQ_{20}	15.8	X	264.94907	90.26640	21.90049	11.71278	0.0441879	0.18338622	3.0682559	21	10 25.2	20.0
443064 2013 FJ_{25}	16.8	X	16.91359	339.27295	150.93432	12.98847	0.1275151	0.22527238	2.6750429	21	—	—
443065 2013 FK_{25}	15.8	X	157.59265	112.68769	101.16253	11.76901	0.0604923	0.18670543	3.0317827	21	10 31.3	20.5
443066 2013 GV_{2}	16.7	X	69.76656	103.79291	317.62999	13.50595	0.0797252	0.23009988	2.6374959	21	—	—
443067 2013 GD_{4}	16.8	X	347.18636	300.06810	183.42402	13.58180	0.1666491	0.21940649	2.7225116	21	—	—
443068 2013 GJ_{4}	16.5	X	32.85521	251.02676	184.43116	4.67822	0.1076448	0.21756167	2.7378803	21	—	—
443069 2013 GC_{11}	16.6	X	63.71574	277.97621	127.95043	6.80371	0.0642053	0.21379565	2.7699385	21	—	—
443070 2013 GO_{11}	16.5	X	285.91881	266.66606	207.36878	9.52281	0.0657512	0.19249878	2.9706448	21	11 24.7	20.4
443071 2013 GO_{13}	15.8	X	192.44386	69.44119	115.60024	10.26181	0.0881320	0.18628153	3.0363804	21	10 31.5	20.6
443072 2013 GX_{14}	16.6	X	45.35275	25.34011	357.83789	5.96939	0.0763270	0.20035800	2.8924438	21	—	—
443073 2013 GC_{20}	15.8	X	18.04103	158.22400	186.94411	15.92373	0.0801186	0.17367121	3.1816385	21	10 23.3	20.0
443074 2013 GQ_{25}	15.5	X	203.37694	214.39218	309.05793	5.02634	0.0524238	0.17811532	3.1284931	21	10 12.1	20.3
443075 2013 GV_{25}	16.1	X	271.42200	22.77494	77.60838	14.86890	0.0903962	0.18243266	3.0789383	21	10 20.6	20.5
443076 2013 GP_{27}	16.0	X	273.74813	52.16012	56.18148	10.57434	0.0308257	0.18708797	3.0276487	21	11 5.6	20.1
443077 2013 GC_{28}	15.9	X	301.10361	334.77547	96.99162	10.79995	0.0914538	0.18441734	3.0568084	21	10 23.9	20.0
443078 2013 GF_{36}	15.4	X	68.00965	298.19909	16.68651	16.58926	0.1070275	0.17659402	3.1464347	21	11 17.4	20.1
443079 2013 GH_{37}	15.8	X	229.67732	74.16303	57.94641	11.55776	0.0386339	0.17552375	3.1592122	21	10 12.5	20.5
443080 2013 GD_{43}	16.5	X	229.41145	95.37299	36.65019	5.39991	0.1041761	0.17673824	3.1447228	21	10 1.4	21.2
443081 2013 GM_{45}	15.6	X	198.68099	348.95969	171.30297	17.32533	0.0619245	0.17314544	3.1880761	21	10 6.3	20.4
443082 2013 GO_{62}	15.6	X	207.54626	106.71200	26.10630	8.75771	0.1062949	0.17050692	3.2208813	21	9 10.5	20.6
443083 2013 GG_{64}	15.7	X	206.46588	22.14435	172.35092	18.29695	0.1098781	0.18730634	3.0252950	21	11 23.1	20.6
443084 2013 GD_{68}	15.8	X	211.79327	0.69595	139.95822	11.56580	0.1596677	0.17647281	3.1478753	21	9 20.0	20.9
443085 2013 GN_{68}	16.0	X	225.16970	347.47716	147.31209	2.33965	0.0712495	0.17588361	3.1549014	21	10 2.9	20.7
443086 2013 GQ_{69}	15.2	X	329.34226	125.31127	121.50872	6.91243	0.1620336	0.12396306	3.9835889	21	4 2.5	20.3
443087 2013 GC_{117}	16.1	X	230.50229	315.30657	172.32772	10.39603	0.0731242	0.17588954	3.1548306	21	9 30.2	20.7
443088 2013 GH_{117}	16.7	X	27.36757	277.00479	135.65021	3.00300	0.0700743	0.20221588	2.8747001	21	—	—
443089 2013 GD_{128}	17.2	X	27.06385	341.53156	129.50867	14.96114	0.1866231	0.23422210	2.6064584	21	—	—
443090 2013 GV_{128}	16.1	X	164.58979	71.42432	126.68895	12.99409	0.0699941	0.17806970	3.1290274	21	10 19.2	21.0
443091 2013 HT_{1}	16.2	X	276.55638	118.31343	70.01300	11.47481	0.0860886	0.20656675	2.8341910	21	—	—
443092 2013 HV_{4}	16.0	X	178.38278	332.77067	45.46924	15.49624	0.1415978	0.24391563	2.5369367	21	3 24.7	20.2
443093 2013 HO_{9}	15.9	X	230.45154	5.57183	140.67157	16.69250	0.0523870	0.18377607	3.0639152	21	10 31.2	20.6
443094 2013 HN_{15}	15.4	X	195.87174	5.19083	160.96200	20.17153	0.0595389	0.17123043	3.2118020	21	10 11.9	20.3
443095 2013 HB_{18}	15.8	X	336.16443	308.81462	163.37018	10.80459	0.1046448	0.20314790	2.8659008	21	—	—
443096 2013 HE_{21}	16.5	X	210.47790	292.24211	202.54094	9.59649	0.1736423	0.17305702	3.1891619	21	9 5.5	21.7
443097 2013 HY_{48}	16.6	X	24.41408	101.25035	264.09484	3.95525	0.1099142	0.17779845	3.1322090	21	11 28.6	20.7
443098 2013 HX_{110}	17.3	X	330.36913	227.43682	168.97052	0.41319	0.1741815	0.17433394	3.1735701	21	10 12.2	20.9
443099 2013 HR_{150}	15.9	X	103.23652	170.68808	39.61636	10.77140	0.0335440	0.15443658	3.4406139	21	8 21.8	21.0
443100 2013 JB_{25}	16.2	X	214.88365	42.92705	113.20387	8.55709	0.1338468	0.17969687	3.1101098	21	10 15.1	21.1
443101 2013 JM_{31}	15.6	X	179.08238	99.14945	76.88274	16.06082	0.0809076	0.17507816	3.1645702	21	10 10.3	20.7
443102 2013 WS	17.8	X	88.84302	347.98427	244.46075	18.34061	0.0531248	0.35186223	1.9871056	21	9 4.1	20.5
443103 2013 WT_{67}	17.9	X	115.68024	99.03965	322.76521	21.47015	0.1921617	0.93609286	1.0349597	21	—	—
443104 2013 XK_{22}	24.3	X	317.05234	265.72424	268.36021	6.99313	0.2033642	0.92180818	1.0456243	21	—	—
443105 2013 YK_{13}	17.3	X	64.21674	192.64134	266.12990	6.13525	0.0650130	0.28334343	2.2957642	21	1 16.7	19.6
443106 2013 YA_{20}	17.7	X	31.97925	224.71044	241.58238	3.43571	0.1348020	0.27351843	2.3504173	21	—	—
443107 2013 YQ_{44}	17.0	X	8.07634	198.77460	271.77420	5.70566	0.0631145	0.26648323	2.3916050	21	—	—
443108 2013 YY_{54}	17.4	X	226.68440	153.41601	120.07560	13.63869	0.1109547	0.27089598	2.3655620	21	—	—
443109 2013 YG_{69}	17.2	X	325.52957	212.52482	314.56088	5.30559	0.1152841	0.26225833	2.4172219	21	—	—
443110 2013 YB_{73}	16.6	X	276.60924	12.40259	114.50352	22.77597	0.0557352	0.23832344	2.5764688	21	12 12.3	20.1
443111 2013 YZ_{73}	16.8	X	285.21133	342.21531	135.99118	10.05096	0.0893567	0.23326063	2.6136158	21	12 6.0	20.1
443112 2013 YV_{84}	18.4	X	132.68207	28.79218	302.67024	19.36281	0.0747045	0.39288697	1.8462519	21	—	—
443113 2013 YQ_{88}	18.0	X	355.06526	221.31496	323.96155	5.21535	0.1179113	0.27997376	2.3141482	21	1 24.3	20.5
443114 2013 YL_{96}	18.0	X	11.90276	139.19489	47.14199	0.35322	0.1427913	0.28695864	2.2764416	21	2 19.4	19.8
443115 2014 AU_{6}	16.6	X	195.43871	38.87447	110.98743	13.60988	0.0477715	0.21483037	2.7610372	21	9 29.2	20.8
443116 2014 AQ_{19}	18.1	X	26.83772	50.15789	130.05129	7.32122	0.0411675	0.29129221	2.2538074	21	3 17.3	20.5
443117 2014 AE_{24}	18.4	X	29.54076	30.99844	150.89640	1.24308	0.1181919	0.29317484	2.2441485	21	3 20.8	20.1
443118 2014 AA_{27}	16.9	X	253.39733	325.30617	142.44986	13.20037	0.1581908	0.21939266	2.7226260	21	9 27.9	20.8
443119 2014 AN_{32}	17.6	X	1.34631	287.98355	138.29484	24.32655	0.0128376	0.37804820	1.8942528	21	—	—
443120 2014 AU_{32}	17.5	X	143.53872	305.52678	311.17626	18.04120	0.0581932	0.36793626	1.9288020	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443121 2014 AW_{43}	17.3	X	313.68918	276.84151	131.50724	24.94837	0.1192852	0.35369013	1.9802533	21	11 21.5	19.6
443122 2014 AG_{45}	17.9	X	353.91031	296.82341	285.34116	6.41906	0.0707159	0.29966754	2.2116153	21	3 14.8	20.4
443123 2014 AG_{46}	17.4	X	35.00919	26.61520	313.84755	17.85611	0.0709292	0.36115021	1.9528886	21	12 15.2	19.7
443124 2014 AH_{50}	17.2	X	283.83505	7.46716	253.80169	7.03725	0.1680209	0.27487522	2.3426765	21	1 24.4	20.8
443125 2014 AS_{51}	17.6	X	247.78150	208.82400	334.43253	20.00404	0.0560703	0.37655863	1.8992450	21	—	—
443126 2014 AN_{54}	17.7	X	59.10514	222.64757	307.27738	5.52833	0.0964474	0.30333310	2.1937620	21	4 22.0	19.9
443127 2014 BK_{8}	18.0	X	0.20837	17.90905	64.36846	20.54434	0.0990463	0.38441022	1.8732947	21	—	—
443128 2014 BN_{8}	17.7	X	126.75870	310.89875	329.72266	18.17660	0.0563173	0.36915828	1.9245431	21	—	—
443129 2014 BS_{8}	18.1	X	79.81311	49.41991	321.32882	15.08473	0.0943378	0.38626047	1.8673076	21	—	—
443130 2014 BA_{9}	17.7	X	227.24030	199.31810	354.06699	19.56310	0.0580110	0.37026973	1.9206899	21	—	—
443131 2014 BL_{9}	17.8	X	106.15720	315.43265	337.01343	18.91585	0.0539956	0.36506237	1.9389116	21	—	—
443132 2014 BT_{12}	17.3	X	227.79972	228.12616	319.79512	4.14175	0.1851306	0.23121146	2.6290357	21	12 2.2	21.0
443133 2014 BW_{16}	17.4	X	269.37561	154.56451	73.16332	5.82885	0.1887004	0.26343405	2.4100244	21	—	—
443134 2014 BL_{19}	17.4	X	337.06140	285.37607	298.73513	4.77808	0.1297922	0.28498583	2.2869353	21	2 14.9	20.1
443135 2014 BJ_{21}	16.7	X	249.53321	6.48190	138.47623	14.38129	0.0857388	0.22697421	2.6616547	21	11 22.4	20.5
443136 2014 BP_{21}	16.6	X	251.58437	324.65509	140.80764	14.14498	0.1523332	0.21621989	2.7491955	21	9 23.2	20.6
443137 2014 BB_{22}	17.8	X	323.64610	72.19333	163.53347	2.63874	0.1839963	0.27991012	2.3144989	21	2 4.7	20.7
443138 2014 BE_{25}	17.3	X	2.71361	275.77123	125.77760	23.91417	0.1075911	0.36618995	1.9349293	21	—	—
443139 2014 BV_{27}	18.1	X	335.00660	264.03854	324.71137	0.66569	0.1704340	0.28931361	2.2640715	21	2 12.0	20.6
443140 2014 BG_{29}	17.9	X	20.04764	40.40275	147.67137	3.40255	0.0949265	0.29047819	2.2580161	21	3 13.7	19.9
443141 2014 BN_{34}	18.1	X	280.83126	135.87806	321.68354	17.60615	0.1167147	0.35739446	1.9665463	21	11 17.2	20.2
443142 2014 BA_{35}	18.1	X	2.39920	110.31604	93.11562	2.38709	0.1596956	0.28442870	2.2899207	21	2 26.7	19.9
443143 2014 BB_{37}	17.6	X	268.29003	93.49110	148.94089	5.42578	0.1482923	0.26030333	2.4293098	21	—	—
443144 2014 BM_{38}	16.4	X	34.59451	17.29836	334.71772	5.73107	0.0388571	0.21995756	2.7179625	21	11 22.9	20.0
443145 2014 BB_{40}	17.6	X	337.34243	173.55332	4.42831	5.16496	0.1375306	0.26988519	2.3714648	21	—	—
443146 2014 BY_{44}	17.9	X	297.74478	47.96142	137.11813	3.10912	0.1451752	0.25488242	2.4636337	21	—	—
443147 2014 BG_{45}	17.6	X	346.10423	81.87717	140.35852	4.41201	0.0421563	0.28841613	2.2687659	21	3 13.6	20.1
443148 2014 BS_{47}	17.8	X	341.00094	303.37498	305.08167	0.74573	0.1444417	0.29248025	2.2477000	21	3 26.7	20.1
443149 2014 BU_{57}	17.9	X	346.17811	94.42799	350.13724	20.61238	0.0843561	0.37845811	1.8928847	21	—	—
443150 2014 BC_{63}	17.0	X	228.92706	188.60317	354.12532	12.30948	0.2784576	0.21645611	2.7471950	21	11 10.7	21.7
443151 2014 CB	16.4	X	313.95785	24.72198	52.97563	6.06712	0.0088367	0.22248833	2.6973123	21	11 25.4	19.9
443152 2014 CY_{3}	18.0	X	339.02879	141.51199	52.08274	3.09242	0.1357786	0.27231157	2.3573568	21	1 10.1	20.7
443153 2014 CR_{5}	16.8	X	164.93812	120.88604	113.54786	9.51420	0.0803811	0.22726180	2.6594087	21	12 4.7	20.8
443154 2014 CQ_{6}	17.8	X	288.47576	225.94115	26.08822	2.61045	0.1568515	0.27643131	2.3338767	21	1 21.1	21.1
443155 2014 CU_{7}	16.4	X	164.81884	300.43195	323.69462	29.92019	0.2620409	0.23027599	2.6361510	21	—	—
443156 2014 CF_{8}	17.9	X	6.08267	273.82095	313.60169	2.28851	0.0956861	0.29387151	2.2406003	21	4 15.2	20.1
443157 2014 CF_{9}	17.6	X	190.53068	201.36467	60.33207	2.44884	0.1825346	0.24276348	2.5449572	21	—	—
443158 2014 CX_{9}	17.9	X	231.81613	128.07296	2.81346	8.31029	0.1892675	0.34990614	1.9945044	21	10 7.6	20.1
443159 2014 CV_{15}	17.5	X	276.56090	276.02687	319.22584	1.89743	0.1416320	0.25810779	2.4430666	21	—	—
443160 2014 CA_{17}	17.8	X	12.80829	242.27883	302.31950	6.35420	0.0428716	0.28412011	2.2915785	21	2 25.5	20.3
443161 2014 CH_{17}	17.7	X	351.70376	181.90208	356.09837	2.49126	0.1357289	0.27106732	2.3645651	21	1 7.9	20.1
443162 2014 CQ_{17}	16.3	X	314.99883	270.00680	140.10289	16.52394	0.1930038	0.21959328	2.7209675	21	10 14.5	19.3
443163 2014 CD_{19}	17.5	X	298.48749	177.68937	17.25859	4.85017	0.1642465	0.25283767	2.4768984	21	—	—
443164 2014 CT_{19}	17.9	X	336.41882	108.17832	334.11545	18.42006	0.0894378	0.37445723	1.9063439	21	—	—
443165 2014 CY_{21}	17.3	X	317.44828	43.46316	142.48579	9.21321	0.0896202	0.26320183	2.4114418	21	—	—
443166 2014 CA_{23}	16.9	X	310.29689	127.03705	71.55193	9.58171	0.1755538	0.26007443	2.4307350	21	—	—
443167 2014 DY_{5}	17.9	X	51.57760	24.46095	126.23809	4.38425	0.1257389	0.28406771	2.2918603	21	3 20.1	19.8
443168 2014 DA_{7}	17.0	X	224.53728	189.54690	87.33196	7.79271	0.0990582	0.25680608	2.4513154	21	—	—
443169 2014 DE_{7}	17.6	X	22.55206	60.66326	84.74664	5.55664	0.0994735	0.27157981	2.3615894	21	1 17.9	19.9
443170 2014 DG_{9}	17.7	X	315.73488	243.18133	305.00650	0.72714	0.1294838	0.26171888	2.4205423	21	—	—
443171 2014 DA_{15}	16.5	X	204.66701	172.49230	95.66554	8.07934	0.2041521	0.24698372	2.5158833	21	—	—
443172 2014 DN_{15}	18.1	X	52.03478	124.69748	43.60822	5.30096	0.0714248	0.28995808	2.2607154	21	4 10.5	20.3
443173 2014 DT_{15}	17.0	X	254.89225	116.78950	127.27857	9.39465	0.1781787	0.25206067	2.4819860	21	—	—
443174 2014 DJ_{16}	17.2	X	258.00954	167.47395	110.68512	3.48081	0.1724529	0.26497765	2.4006557	21	1 23.9	21.0
443175 2014 DT_{18}	17.1	X	217.29150	281.46508	311.31017	4.00786	0.0999849	0.24142324	2.5543672	21	—	—
443176 2014 DU_{18}	17.5	X	301.72006	320.73138	253.97050	1.67877	0.1475941	0.26473102	2.4021465	21	—	—
443177 2014 DF_{21}	16.7	X	342.56817	230.66054	110.05992	4.16513	0.0598671	0.19122988	2.9837714	21	8 26.8	20.4
443178 2014 DG_{21}	17.1	X	257.83019	160.86950	26.25072	4.76427	0.0840935	0.23663803	2.5886878	21	—	—
443179 2014 DX_{24}	17.7	X	247.99442	51.34194	137.91961	1.65058	0.1247822	0.23684516	2.5871784	21	—	—
443180 2014 DC_{26}	18.2	X	47.25718	139.05849	30.88451	3.90244	0.0965725	0.28768307	2.2726184	21	4 6.3	20.1
443181 2014 DF_{27}	17.8	X	313.22053	173.13460	34.47570	4.84259	0.1722282	0.26166496	2.4208748	21	—	—
443182 2014 DX_{28}	17.4	X	231.72730	65.10364	150.91375	12.42294	0.1390351	0.24058951	2.5602650	21	—	—
443183 2014 DH_{29}	16.6	X	109.79242	293.70054	324.83457	10.22095	0.3066986	0.20335784	2.8639280	21	11 13.2	21.8
443184 2014 DR_{30}	17.9	X	330.87285	336.97478	277.34428	6.70736	0.0997489	0.29006049	2.2601833	21	3 22.1	20.5
443185 2014 DB_{34}	17.3	X	254.35678	135.09811	125.09569	7.04896	0.0951743	0.26157479	2.4214312	21	1 2.6	20.9
443186 2014 DU_{37}	17.4	X	254.81758	134.21362	116.95866	3.55465	0.1561324	0.25615051	2.4554960	21	—	—
443187 2014 DM_{38}	17.1	X	216.95859	282.07365	293.42295	7.16485	0.1284013	0.23209902	2.6223290	21	—	—
443188 2014 DY_{38}	17.6	X	332.91432	258.49977	325.31510	6.76960	0.0699570	0.28786245	2.2716742	21	2 18.3	20.0
443189 2014 DY_{39}	17.2	X	141.92370	136.32685	119.30746	7.22957	0.1025631	0.22674154	2.6634752	21	12 6.2	21.3
443190 2014 DC_{43}	17.8	X	161.78659	304.94962	126.90424	7.25461	0.0648200	0.29654596	2.2271085	21	5 1.6	20.7
443191 2014 DD_{46}	17.4	X	293.48676	114.28948	110.44434	6.56053	0.0689869	0.26253578	2.4155186	21	1 3.9	20.7
443192 2014 DJ_{47}	17.4	X	3.29475	213.04959	336.78211	6.02174	0.0677635	0.27443541	2.3451788	21	2 20.6	19.9
443193 2014 DA_{48}	17.2	X	298.44971	164.55465	356.63448	5.69467	0.0330953	0.23922083	2.5700213	21	—	—
443194 2014 DJ_{49}	16.9	X	252.39653	233.34439	50.01572	3.37257	0.1693476	0.26344109	2.4099815	21	1 26.3	20.6
443195 2014 DK_{50}	18.0	X	18.89450	77.26673	91.10194	3.45383	0.1063771	0.27506356	2.3416070	21	2 13.2	20.3
443196 2014 DS_{52}	17.7	X	12.02440	92.91300	90.45661	2.22470	0.1013122	0.27673790	2.3321526	21	2 22.8	20.0
443197 2014 DP_{53}	17.3	X	266.16134	103.23654	160.79089	2.14328	0.1632498	0.26051707	2.4279809	21	1 14.9	21.1
443198 2014 DG_{56}	16.4	X	70.27206	75.06975	153.64143	12.68589	0.0581658	0.17885530	3.1198581	21	8 2.0	20.8
443199 2014 DR_{58}	17.2	X	353.04401	61.65089	140.21396	8.04135	0.0485083	0.27623442	2.3349855	21	2 24.1	19.9
443200 2014 DZ_{65}	17.7	X	17.66353	68.48199	115.97424	5.04719	0.1233517	0.27815948	2.3241999	21	3 6.0	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443201 2014 DF_{67}	17.6	X	236.79688	102.45506	107.55261	5.96486	0.1559765	0.23190878	2.6237629	21	—	—
443202 2014 DH_{68}	17.2	X	181.06919	217.84118	84.16704	4.28378	0.0658132	0.24549341	2.5260551	21	—	—
443203 2014 DT_{68}	16.9	X	250.44125	164.60711	32.79038	9.66213	0.0720854	0.23441913	2.6049977	21	—	—
443204 2014 DE_{69}	16.9	X	178.66721	278.40942	52.41714	7.12471	0.1523046	0.25402567	2.4691699	21	1 18.9	20.7
443205 2014 DP_{70}	18.1	X	30.76207	352.24972	133.81606	4.46036	0.1595181	0.26595031	2.3947989	21	—	—
443206 2014 DQ_{72}	17.6	X	305.39555	53.08744	112.31390	5.28631	0.0913990	0.24380084	2.5377330	21	—	—
443207 2014 DB_{73}	17.9	X	90.80437	7.31067	117.15977	7.13412	0.1392766	0.28766600	2.2727083	21	4 22.8	20.5
443208 2014 DW_{73}	18.3	X	109.35063	38.98805	100.34832	6.15936	0.1248419	0.29855206	2.2171207	21	6 4.3	21.1
443209 2014 DH_{81}	17.9	X	304.11001	143.90967	133.24207	5.28544	0.0890175	0.28584086	2.2823724	21	3 23.9	20.6
443210 2014 DC_{83}	16.8	X	207.10762	37.52211	224.78747	7.82003	0.1576695	0.24548464	2.5261153	21	—	—
443211 2014 DD_{85}	16.5	X	233.31507	339.26548	119.00094	3.15725	0.0514008	0.19620026	2.9331639	21	9 1.1	20.7
443212 2014 DX_{85}	17.6	X	288.91813	274.55407	341.01652	6.16880	0.0913143	0.27218468	2.3580894	21	2 4.0	20.8
443213 2014 DB_{88}	17.3	X	229.61341	271.22941	358.73533	2.16504	0.1674284	0.25691622	2.4506147	21	—	—
443214 2014 DN_{88}	17.2	X	109.26347	7.74793	311.26673	1.82996	0.0649826	0.23593224	2.5938480	21	—	—
443215 2014 DQ_{90}	17.1	X	117.94319	217.74914	114.05662	3.91521	0.0402743	0.23061467	2.6335694	21	—	—
443216 2014 DL_{93}	18.3	X	114.98543	3.31258	127.09066	1.63233	0.0595786	0.30083558	2.2058869	21	5 19.4	20.7
443217 2014 DF_{95}	17.8	X	170.81492	198.59676	220.04077	5.63933	0.0608626	0.29208997	2.2497018	21	4 20.7	20.6
443218 2014 DT_{96}	17.5	X	285.02569	177.80300	109.63504	3.38439	0.2115795	0.27529149	2.3403144	21	2 26.3	20.8
443219 2014 DQ_{97}	17.3	X	148.96541	115.19727	293.56193	3.85061	0.0861664	0.28367577	2.2939708	21	3 12.9	20.3
443220 2014 DZ_{97}	16.9	X	313.99834	76.31050	359.94817	2.50064	0.0997379	0.22178778	2.7029892	21	11 19.1	20.0
443221 2014 DA_{101}	17.8	X	305.40463	261.82827	331.34133	7.61244	0.0724810	0.27609145	2.3357915	21	1 27.9	20.7
443222 2014 DG_{103}	18.4	X	92.20115	152.84503	20.98548	1.45969	0.0528456	0.31005007	2.1619625	21	6 18.1	20.6
443223 2014 DX_{103}	17.2	X	169.39660	297.47766	353.59107	8.43363	0.1577010	0.23851221	2.5751092	21	—	—
443224 2014 DF_{104}	17.0	X	53.10080	186.29606	168.92175	6.43488	0.0601922	0.22559030	2.6725291	21	12 26.2	20.7
443225 2014 DD_{105}	18.3	X	25.35278	45.12506	158.14121	5.31974	0.0698756	0.29096592	2.2554921	21	4 17.7	20.5
443226 2014 DY_{105}	18.0	X	333.55918	146.62919	24.27678	1.67516	0.1283848	0.25996115	2.4314411	21	—	—
443227 2014 DW_{106}	17.6	X	231.66967	103.84002	186.12789	0.87978	0.1721887	0.25996419	2.4314222	21	1 15.3	21.6
443228 2014 DZ_{108}	17.3	X	186.34343	164.21529	94.38795	4.84548	0.0882427	0.22763039	2.6565371	21	—	—
443229 2014 DV_{111}	18.4	X	94.49893	22.50959	117.52915	4.17093	0.0815827	0.29829748	2.2183820	21	5 8.6	20.8
443230 2014 DN_{113}	17.7	X	342.06792	241.67963	314.68758	1.09488	0.1251897	0.27160382	2.3614503	21	1 19.9	20.3
443231 2014 DO_{115}	17.1	X	164.42592	150.68630	185.81822	9.92496	0.1660608	0.25211898	2.4816033	21	1 10.5	21.0
443232 2014 DZ_{116}	16.5	X	170.43456	302.26703	337.14441	13.05270	0.2731873	0.23135726	2.6279310	21	—	—
443233 2014 DR_{117}	17.0	X	311.29949	236.76766	330.31903	13.04261	0.0940234	0.26451741	2.4034396	21	1 1.1	20.4
443234 2014 DM_{119}	17.4	X	172.71450	85.18708	169.54690	5.49469	0.1141043	0.22692346	2.6620515	21	—	—
443235 2014 DP_{119}	17.4	X	159.01255	198.54233	100.21173	3.64247	0.1886753	0.23339464	2.6126153	21	—	—
443236 2014 DJ_{120}	17.3	X	314.09758	310.13596	286.80137	8.28299	0.1093591	0.28086404	2.3092553	21	2 3.4	20.3
443237 2014 DR_{121}	17.4	X	223.23710	45.57879	175.13205	13.31524	0.2017173	0.23188669	2.6239296	21	—	—
443238 2014 DR_{122}	17.8	X	92.70808	146.17883	5.98396	5.59836	0.0592450	0.29880717	2.2158586	21	5 16.6	20.2
443239 2014 DX_{122}	18.0	X	22.26871	94.04815	50.37562	1.90403	0.1263320	0.27044444	2.3681944	21	1 13.7	20.3
443240 2014 DE_{124}	17.5	X	319.85570	178.00808	17.21720	2.57819	0.1592812	0.26103634	2.4247598	21	—	—
443241 2014 DO_{124}	17.8	X	329.89737	97.21360	104.44596	2.29662	0.1171977	0.26756116	2.3851773	21	1 11.9	20.7
443242 2014 DZ_{127}	16.8	X	21.30549	221.54813	156.12721	6.06332	0.0516248	0.22235170	2.6984171	21	12 12.4	20.3
443243 2014 DE_{132}	16.6	X	128.63089	337.17448	175.70615	9.34004	0.0827593	0.17719978	3.1392598	21	7 10.8	21.4
443244 2014 DE_{133}	17.4	X	7.74025	274.12803	166.97861	11.91697	0.1574674	0.24515299	2.5283931	21	—	—
443245 2014 DG_{135}	17.4	X	190.44116	106.04937	103.99026	4.42249	0.1317388	0.21735604	2.7396069	21	11 25.9	21.6
443246 2014 DL_{137}	16.7	X	181.54179	310.98429	6.08948	8.49768	0.1617579	0.25280660	2.4771013	21	1 5.7	20.7
443247 2014 DH_{141}	18.0	X	327.88548	60.17651	120.84354	2.56497	0.1128551	0.26339307	2.4102744	21	—	—
443248 2014 DW_{141}	17.5	X	348.85299	310.88418	264.97535	5.83906	0.1736762	0.28008734	2.3135225	21	2 14.7	20.0
443249 2014 DC_{142}	17.7	X	0.80055	53.26724	116.30496	5.56170	0.1658457	0.27156703	2.3616635	21	1 5.5	20.2
443250 2014 DG_{142}	16.5	X	188.14927	310.58137	278.07444	8.16884	0.2236610	0.22008575	2.7169069	21	12 9.2	21.1
443251 2014 EU_{1}	17.2	X	286.69771	189.55059	50.23568	5.49403	0.1268551	0.26350098	2.4096163	21	1 9.2	20.6
443252 2014 EJ_{3}	17.6	X	96.54095	227.32251	163.32959	7.00609	0.1213162	0.25877201	2.4388842	21	—	—
443253 2014 ES_{4}	18.1	X	30.25183	5.40301	129.32129	3.05156	0.1575607	0.26996664	2.3709877	21	1 11.7	20.1
443254 2014 ET_{5}	18.8	X	174.04868	12.23747	74.04270	1.35517	0.0986933	0.30815243	2.1708292	21	6 4.2	21.8
443255 2014 EY_{6}	17.0	X	184.00149	130.97406	161.70480	7.91228	0.2594213	0.23780440	2.5802163	21	—	—
443256 2014 EA_{7}	17.4	X	241.70938	203.97248	6.73443	3.00661	0.1376874	0.23592993	2.5938649	21	—	—
443257 2014 EB_{7}	17.5	X	291.89176	112.71556	137.92392	1.86900	0.1505592	0.26662858	2.3907358	21	1 24.6	21.0
443258 2014 ER_{9}	18.0	X	117.04936	9.43888	129.92167	5.60001	0.0558766	0.30436815	2.1887857	21	6 4.5	20.7
443259 2014 EB_{11}	17.0	X	195.41684	280.61813	50.68376	5.65989	0.2301858	0.25696502	2.4503044	21	2 7.4	21.2
443260 2014 EW_{11}	17.2	X	20.08091	67.39085	109.03062	6.57242	0.0832557	0.27750425	2.3278569	21	3 1.5	19.6
443261 2014 EG_{13}	17.4	X	222.46082	173.39577	120.56665	5.67353	0.1847283	0.25792322	2.4442320	21	1 12.6	21.4
443262 2014 EF_{14}	17.4	X	317.10794	234.84832	171.04395	23.75158	0.1088241	0.34577549	2.0103573	21	11 15.7	19.5
443263 2014 EE_{15}	17.7	X	264.20097	193.31294	2.78112	5.02999	0.1966564	0.24019330	2.5630798	21	—	—
443264 2014 EF_{16}	16.8	X	263.00696	20.08640	57.13659	3.07294	0.0379895	0.19938524	2.9018439	21	9 14.2	20.7
443265 2014 EW_{17}	17.6	X	275.86810	204.38750	48.72897	5.90083	0.0858989	0.26661673	2.3908066	21	1 18.3	20.9
443266 2014 EJ_{18}	17.1	X	194.59739	69.14703	143.92565	12.88356	0.1133658	0.22142199	2.7059653	21	12 7.2	21.4
443267 2014 EL_{18}	18.0	X	80.07603	79.71125	96.07652	4.69120	0.0976744	0.30177466	2.2013083	21	6 10.7	20.3
443268 2014 ES_{18}	18.0	X	302.39501	242.94971	11.02978	6.05125	0.0990424	0.27566966	2.3381735	21	2 17.9	20.9
443269 2014 ET_{18}	16.9	X	83.87568	221.22109	133.91947	5.62411	0.1256501	0.23657133	2.5891745	21	—	—
443270 2014 ET_{21}	16.8	X	146.34421	309.50354	313.05454	6.57555	0.1725122	0.21730696	2.7400193	21	12 16.0	21.4
443271 2014 ED_{26}	16.2	X	63.58428	141.07834	131.31571	1.74004	0.1417643	0.18953914	3.0014892	21	10 3.3	20.2
443272 2014 EE_{27}	17.3	X	170.37074	218.92459	93.92439	3.35492	0.1060221	0.24687850	2.5165981	21	—	—
443273 2014 EL_{27}	17.0	X	138.03045	258.76515	244.40834	3.19764	0.0583273	0.17822061	3.1272608	21	7 7.8	21.5
443274 2014 ES_{28}	17.6	X	289.93550	139.86678	71.45181	5.19010	0.0954028	0.25640164	2.4538924	21	—	—
443275 2014 EQ_{30}	16.2	X	332.58479	155.55879	157.27655	10.27683	0.0339201	0.17462325	3.1700638	21	7 5.3	20.6
443276 2014 EF_{32}	16.8	X	309.06730	356.99505	151.48147	14.28418	0.0929925	0.24072301	2.5593183	21	—	—
443277 2014 EY_{33}	17.4	X	225.01113	94.26126	106.37160	5.42193	0.0934505	0.22673312	2.6635411	21	12 26.6	21.0
443278 2014 EQ_{36}	17.4	X	219.20444	199.55223	56.96617	5.76107	0.1537118	0.24126087	2.5555131	21	—	—
443279 2014 ET_{36}	17.5	X	282.68381	244.97932	89.72679	5.43180	0.1267486	0.29770393	2.2213296	21	5 7.8	20.1
443280 2014 EA_{46}	17.3	X	218.78307	197.30024	121.76134	4.55084	0.0401365	0.27169483	2.3609229	21	2 6.9	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443281 2014 EB_{46}	17.6	X	304.87546	39.31111	139.99320	6.38515	0.0694465	0.25194462	2.4827481	21	—	—
443282 2014 ER_{46}	17.4	X	302.25392	188.53519	83.02519	6.71730	0.1120863	0.28114175	2.3077344	21	3 12.4	20.3
443283 2014 EZ_{47}	16.4	X	171.16543	243.17994	20.93885	12.81860	0.2405429	0.22278671	2.6949034	21	—	—
443284 2014 EH_{48}	16.5	X	167.27111	265.83876	37.15187	11.25056	0.1310021	0.24227431	2.5483816	21	—	—
443285 2014 EM_{48}	17.5	X	85.97430	23.07068	83.32331	7.53671	0.0563273	0.27973193	2.3154817	21	3 8.3	20.2
443286 2014 EO_{49}	17.1	X	214.40110	130.48283	119.79903	5.38005	0.1100505	0.23993150	2.5649439	21	—	—
443287 2014 ES_{51}	18.0	X	24.15003	251.95385	170.43447	22.88031	0.0875360	0.37101755	1.9181081	21	—	—
443288 2014 FB_{1}	17.0	X	200.71889	164.12262	56.18305	3.70411	0.2001858	0.22064638	2.7123029	21	12 11.8	21.4
443289 2014 FD_{2}	16.7	X	146.34079	224.36726	96.15807	10.80165	0.2105780	0.23796596	2.5790484	21	—	—
443290 2014 FH_{3}	15.9	X	252.30216	327.58627	75.98326	10.19963	0.1344794	0.18481969	3.0523703	21	7 3.9	20.5
443291 2014 FP_{5}	17.2	X	187.48988	186.26542	52.21889	4.75564	0.1489189	0.22635993	2.6664679	21	12 26.3	21.3
443292 2014 FT_{5}	17.3	X	186.91873	183.10077	33.33454	6.13441	0.2147302	0.21555518	2.7548444	21	11 23.2	21.8
443293 2014 FS_{6}	16.2	X	245.46056	302.10197	98.60704	9.89188	0.0207711	0.17690699	3.1427227	21	7 6.4	20.5
443294 2014 FV_{14}	17.7	X	321.48259	136.88495	98.61984	7.03601	0.0621125	0.27608186	2.3358456	21	2 24.9	20.6
443295 2014 FY_{14}	16.3	X	94.26042	166.22383	115.60165	9.55653	0.1344453	0.20494408	2.8491313	21	11 20.9	20.8
443296 2014 FB_{15}	16.8	X	228.36784	111.83001	113.40993	9.77075	0.0605193	0.23742847	2.5829393	21	—	—
443297 2014 FD_{15}	16.8	X	186.94941	0.89597	258.91821	2.79399	0.0841799	0.23201588	2.6229554	21	—	—
443298 2014 FF_{20}	18.0	X	338.95291	319.73170	260.57667	3.68517	0.1771455	0.27777462	2.3263462	21	2 6.1	20.4
443299 2014 FK_{20}	16.9	X	72.86923	68.44270	267.69088	4.82604	0.0628396	0.22940488	2.6428202	21	12 27.5	20.5
443300 2014 FN_{20}	16.4	X	188.47617	273.37208	305.07196	10.61260	0.1130904	0.22442088	2.6818051	21	12 4.9	20.6
443301 2014 FX_{20}	16.8	X	182.57832	141.20717	90.41130	4.93199	0.1291289	0.21550847	2.7552425	21	12 13.2	20.9
443302 2014 FC_{21}	17.9	X	219.00037	85.52945	179.34810	4.83374	0.2326508	0.24242313	2.5473386	21	—	—
443303 2014 FJ_{23}	16.5	X	233.56585	260.32633	324.04634	11.64652	0.1800213	0.23637065	2.5906397	21	—	—
443304 2014 FD_{24}	16.6	X	160.54059	302.48715	319.49908	12.52718	0.1320595	0.22259467	2.6964531	21	12 30.8	21.0
443305 2014 FZ_{26}	18.3	X	63.80389	322.31314	203.91385	5.80643	0.0622641	0.29030546	2.2589117	21	4 25.3	20.7
443306 2014 FX_{27}	17.0	X	164.11216	294.77801	295.35652	4.06450	0.1104149	0.21314678	2.7755573	21	11 23.4	21.3
443307 2014 FQ_{34}	16.2	X	119.26865	118.76514	44.92169	1.90872	0.1118197	0.17822992	3.1271519	21	7 18.5	20.8
443308 2014 FE_{35}	16.8	X	135.78333	117.46811	171.61744	11.22216	0.1881671	0.21661492	2.7458521	21	—	—
443309 2014 FZ_{35}	16.4	X	166.46051	90.40355	162.59531	9.23478	0.1657196	0.21594535	2.7515251	21	12 22.1	21.0
443310 2014 FY_{36}	15.5	X	296.67682	350.78422	52.24158	11.76378	0.0175346	0.18144146	3.0901415	21	9 20.2	19.9
443311 2014 FB_{37}	17.3	X	219.78573	199.15877	46.25762	3.24698	0.1228182	0.23140851	2.6275430	21	—	—
443312 2014 FO_{41}	16.7	X	193.45281	106.90063	106.87595	8.63075	0.1636301	0.20990432	2.8040675	21	11 30.5	21.3
443313 2014 FT_{44}	16.3	X	142.89596	165.04100	106.77370	10.38486	0.1250244	0.21421936	2.7662849	21	12 23.7	20.6
443314 2014 FG_{48}	17.5	X	282.26094	268.39990	328.80243	1.86803	0.1528015	0.25701497	2.4499870	21	—	—
443315 2014 FX_{48}	16.9	X	293.51172	277.46433	328.12688	10.82612	0.1552876	0.26510829	2.3998670	21	1 21.8	20.3
443316 2014 FC_{51}	16.9	X	69.63683	290.76105	65.50253	4.17059	0.1064718	0.23260759	2.6185053	21	—	—
443317 2014 FD_{52}	17.9	X	314.96395	184.35637	354.04944	2.18611	0.1367355	0.26106858	2.4245602	21	—	—
443318 2014 FG_{52}	16.5	X	214.06329	172.60137	48.32736	13.35277	0.1070655	0.22388608	2.6860741	21	—	—
443319 2014 FV_{52}	17.4	X	267.09647	135.77864	36.15417	2.04488	0.0612596	0.23219891	2.6215768	21	—	—
443320 2014 FT_{57}	16.8	X	294.47312	347.66565	253.79168	11.16030	0.2048277	0.25729003	2.4482405	21	1 9.7	20.6
443321 2014 FK_{63}	17.2	X	335.88265	209.53442	350.38395	9.23178	0.1112902	0.26730242	2.3867162	21	1 21.6	20.1
443322 2014 FT_{63}	17.0	X	284.55169	339.94151	274.63275	5.76298	0.0966727	0.26310044	2.4120613	21	1 27.1	20.2
443323 2014 FB_{64}	16.4	X	132.96508	121.78007	230.15686	8.14435	0.0588255	0.24542945	2.5264940	21	—	—
443324 2014 FO_{64}	18.2	X	59.67208	74.75259	54.93420	2.20115	0.1300516	0.27610759	2.3357005	21	3 4.7	20.3
443325 2014 FB_{65}	17.0	X	182.05557	42.26346	223.14786	4.40403	0.1317692	0.22695890	2.6617744	21	—	—
443326 2014 FM_{65}	16.7	X	227.11931	330.24925	236.69088	7.72649	0.0725009	0.22551684	2.6731094	21	—	—
443327 2014 FV_{65}	17.1	X	239.87149	106.23568	179.08534	7.27905	0.1001089	0.25613995	2.4555635	21	1 18.4	20.8
443328 2014 FH_{66}	17.3	X	350.79329	81.55030	104.48974	8.19153	0.1149984	0.26580118	2.3956946	21	1 22.5	19.9
443329 2014 FQ_{66}	17.2	X	10.53780	95.47016	155.70700	6.22065	0.0223091	0.29384826	2.2407185	21	6 4.2	19.8
443330 2014 FD_{67}	16.1	X	70.39983	153.40150	119.51058	14.05694	0.1937104	0.18189924	3.0849547	21	10 23.8	20.9
443331 2014 FO_{68}	16.7	X	301.25784	117.75011	75.69684	12.96130	0.0827254	0.24412167	2.5355090	21	—	—
443332 2014 GB	16.2	X	94.18100	266.20744	337.44990	8.87686	0.1551245	0.18464091	3.0543404	21	9 30.3	20.9
443333 2014 GE_{1}	18.2	X	126.61918	150.57887	195.16583	21.64179	0.0766201	0.37662540	1.8990205	21	—	—
443334 2014 GY_{3}	17.4	X	243.22921	215.79589	338.00495	2.22747	0.0595406	0.22919762	2.6444132	21	—	—
443335 2014 GV_{4}	17.7	X	288.87152	180.27419	353.04794	2.16390	0.0878079	0.23936587	2.5689830	21	—	—
443336 2014 GB_{6}	16.2	X	75.17544	261.26965	6.91017	14.08791	0.3116300	0.18111384	3.0938669	21	10 26.6	21.2
443337 2014 GV_{7}	15.9	X	8.37710	243.94392	75.53843	11.97873	0.0618686	0.17668545	3.1453492	21	9 10.2	20.2
443338 2014 GZ_{7}	15.3	X	6.55957	238.86229	83.32997	10.55467	0.0868793	0.17607635	3.1525987	21	9 11.5	19.5
443339 2014 GN_{8}	17.6	X	13.86638	15.45987	146.88017	7.25823	0.0497316	0.27315630	2.3524942	21	1 30.3	20.2
443340 2014 GA_{9}	16.9	X	248.73600	351.77625	186.34857	17.47573	0.1216335	0.22711031	2.6605912	21	12 23.5	20.8
443341 2014 GD_{10}	16.5	X	97.92397	259.78011	31.52721	15.97119	0.2214622	0.20015104	2.8944373	21	12 6.5	21.5
443342 2014 GM_{13}	17.4	X	229.49891	267.05222	309.91246	0.14434	0.1457958	0.22909313	2.6452172	21	—	—
443343 2014 GA_{14}	17.0	X	91.33153	118.10492	118.63143	4.44608	0.1523918	0.17935398	3.1140724	21	9 22.9	21.7
443344 2014 GB_{14}	17.0	X	91.61306	70.27990	168.73074	4.90500	0.0803494	0.18192174	3.0847003	21	9 15.5	21.3
443345 2014 GZ_{17}	16.5	X	117.55088	302.42090	269.86180	1.83432	0.1510270	0.18557894	3.0440393	21	9 17.3	21.3
443346 2014 GR_{20}	16.6	X	123.60680	25.82714	262.19922	2.67623	0.0645085	0.21526872	2.7572878	21	12 22.6	20.4
443347 2014 GB_{22}	16.0	X	57.53968	253.29845	352.27013	13.50230	0.0731189	0.17455884	3.1708435	21	8 14.1	20.4
443348 2014 GM_{28}	15.5	X	313.83454	154.87495	84.58454	4.00673	0.1572233	0.12565895	3.9476663	21	3 2.7	20.8
443349 2014 GA_{31}	16.5	X	33.36980	213.06907	76.18382	2.05661	0.0945772	0.17570021	3.1570965	21	9 5.3	20.5
443350 2014 GJ_{31}	17.1	X	57.34914	342.90302	36.58084	5.17407	0.0579606	0.22264390	2.6960556	21	—	—
443351 2014 GW_{32}	16.4	X	94.67193	97.61538	158.03571	10.59661	0.0919940	0.18026111	3.1036163	21	10 13.4	21.0
443352 2014 GY_{33}	17.2	X	169.02171	193.56015	74.41171	4.90969	0.0187613	0.22189076	2.7021528	21	—	—
443353 2014 GN_{35}	15.4	X	60.08994	111.38163	119.11483	26.58453	0.2203163	0.16963948	3.2318518	21	8 17.7	19.9
443354 2014 GO_{35}	16.2	X	52.99613	278.54720	15.16385	7.51604	0.2904781	0.18178640	3.0862312	21	11 3.4	20.5
443355 2014 GP_{35}	16.4	X	87.91279	61.26444	204.75332	9.64285	0.0753227	0.18806312	3.0171735	21	10 14.2	20.6
443356 2014 GF_{36}	16.7	X	94.09401	252.60107	59.87128	5.67278	0.0911023	0.21395214	2.7685878	21	12 22.2	20.7
443357 2014 GO_{36}	17.5	X	252.33881	234.97587	65.92626	5.15343	0.1811214	0.26457548	2.4030879	21	2 17.1	21.3
443358 2014 GX_{36}	16.2	X	60.99331	83.22719	173.48804	17.44515	0.2650317	0.17452868	3.1712089	21	9 26.8	20.6
443359 2014 GY_{37}	17.2	X	172.85033	244.42754	62.67668	6.38519	0.1385598	0.23881685	2.5729188	21	—	—
443360 2014 GO_{38}	16.4	X	27.46823	280.53471	11.20476	8.99042	0.0966721	0.17366393	3.1817274	21	9 1.8	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443361 2014 GL_{40}	16.4	X	212.18867	178.79220	52.62982	16.35016	0.1281461	0.22513399	2.6761390	21	—	—
443362 2014 GM_{40}	16.2	X	186.86792	161.03224	94.57311	5.85034	0.1508414	0.22265798	2.6959420	21	—	—
443363 2014 GN_{40}	17.3	X	278.81720	125.70594	38.86003	2.36911	0.1543214	0.23262693	2.6183602	21	—	—
443364 2014 GZ_{42}	16.6	X	155.02743	332.83440	38.00814	8.67689	0.1390704	0.25084105	2.4900246	21	2 15.4	20.4
443365 2014 GC_{44}	16.8	X	264.70801	288.40707	257.17389	7.84525	0.1232016	0.22883704	2.6471903	21	—	—
443366 2014 GK_{46}	16.3	X	245.07758	126.01216	112.09688	6.56383	0.0226575	0.24274744	2.5450693	21	—	—
443367 2014 GO_{50}	16.6	X	234.86698	126.79622	20.25182	10.93870	0.0544722	0.20398938	2.8580140	21	11 1.1	20.7
443368 2014 GK_{53}	16.5	X	260.10351	327.72005	234.09416	1.78920	0.0708899	0.23716413	2.5848581	21	—	—
443369 2014 HG	15.8	X	64.49828	168.69953	103.07178	17.41087	0.0694055	0.17589276	3.1547921	21	9 29.5	20.5
443370 2014 HO	16.9	X	182.39340	215.53893	59.42682	4.62690	0.0333101	0.22875858	2.6477956	21	—	—
443371 2014 HM_{1}	17.1	X	353.06250	304.44967	175.74584	10.92145	0.0758571	0.24383398	2.5375030	21	—	—
443372 2014 HV_{1}	16.0	X	161.21667	105.73958	55.94630	13.50045	0.0960109	0.18481185	3.0524567	21	9 3.9	21.0
443373 2014 HD_{2}	16.7	X	151.43623	225.34398	61.84173	5.66539	0.0456769	0.21564618	2.7540694	21	—	—
443374 2014 HG_{2}	15.7	X	96.88660	28.90423	225.17679	11.55471	0.1151286	0.18134430	3.0912451	21	10 11.9	20.5
443375 2014 HN_{3}	16.4	X	32.27193	185.68457	105.45652	9.69232	0.0452465	0.17882581	3.1202010	21	9 3.2	20.7
443376 2014 HK_{5}	17.3	X	220.43118	106.31194	69.36733	4.07671	0.1050823	0.21345238	2.7729075	21	11 16.9	21.3
443377 2014 HW_{5}	16.3	X	85.43590	275.98678	15.13767	15.40847	0.2244069	0.19572859	2.9378743	21	11 24.1	21.2
443378 2014 HQ_{6}	15.7	X	74.46886	213.22144	70.04177	8.08783	0.1628951	0.18653696	3.0336079	21	11 2.2	20.1
443379 2014 HP_{7}	17.7	X	27.09483	15.52143	111.24911	4.09206	0.1395747	0.25762139	2.4461407	21	—	—
443380 2014 HU_{7}	17.2	X	136.63093	167.30146	110.95476	3.77408	0.0515046	0.21228155	2.7830941	21	12 24.0	21.1
443381 2014 HC_{8}	17.2	X	205.14538	166.80360	70.71788	6.56990	0.0326058	0.22350800	2.6891024	21	—	—
443382 2014 HX_{8}	17.2	X	137.99997	208.28443	68.85343	5.47847	0.0312609	0.21244780	2.7816419	21	12 23.8	21.1
443383 2014 HP_{9}	17.0	X	218.04001	70.28641	97.87027	3.22898	0.0076605	0.20361795	2.8614886	21	11 15.7	20.9
443384 2014 HZ_{11}	16.2	X	127.66785	174.12276	43.55553	9.79131	0.0400748	0.18677321	3.0310493	21	9 30.6	20.7
443385 2014 HD_{12}	16.7	X	76.34528	93.54552	195.49484	8.18387	0.1806763	0.18696420	3.0289847	21	11 12.4	21.2
443386 2014 HO_{12}	17.3	X	126.13682	281.91674	48.24169	4.07287	0.0567405	0.22676937	2.6632573	21	—	—
443387 2014 HD_{15}	16.4	X	78.49195	308.25753	33.73084	4.42881	0.1078504	0.21357665	2.7718318	21	—	—
443388 2014 HS_{16}	17.4	X	341.26981	279.31053	238.28223	0.23566	0.0163754	0.24727858	2.5138829	21	—	—
443389 2014 HU_{17}	17.3	X	133.60792	81.60562	203.13523	3.67824	0.0746578	0.21297944	2.7770110	21	12 28.8	21.5
443390 2014 HD_{20}	18.2	X	80.89075	109.89561	12.89428	3.69356	0.1100987	0.27575419	2.3376957	21	3 28.4	20.5
443391 2014 HW_{21}	18.1	X	189.45513	64.69618	350.92124	2.90232	0.1084531	0.28941518	2.2635418	21	5 10.2	21.3
443392 2014 HD_{22}	16.3	X	51.99131	47.67941	227.06219	9.78630	0.0877010	0.17817195	3.1278302	21	9 7.1	20.7
443393 2014 HN_{22}	15.6	X	35.74556	194.11068	107.86513	18.94473	0.1433001	0.17491534	3.1665337	21	10 10.2	20.1
443394 2014 HU_{24}	17.1	X	206.68794	63.51656	206.32953	14.00712	0.0907996	0.23778667	2.5803446	21	—	—
443395 2014 HC_{29}	16.2	X	64.42272	138.03416	152.97637	3.33700	0.1334571	0.18696721	3.0289522	21	10 26.4	20.4
443396 2014 HZ_{29}	16.7	X	99.02968	122.10432	118.61058	2.85723	0.0596644	0.18466928	3.0540276	21	9 25.2	21.0
443397 2014 HW_{30}	17.3	X	130.23435	174.07442	147.88024	5.02582	0.0170432	0.22629926	2.6669444	21	—	—
443398 2014 HJ_{31}	16.4	X	53.22018	110.28867	184.83182	12.23188	0.0899962	0.18393070	3.0621978	21	10 10.5	20.6
443399 2014 HS_{32}	16.5	X	69.06645	67.30067	196.24379	13.90073	0.1709365	0.17628651	3.1500927	21	9 30.1	21.0
443400 2014 HV_{34}	17.8	X	238.82308	227.10850	159.51804	6.34940	0.1178511	0.29192115	2.2505690	21	5 27.7	20.9
443401 2014 HY_{36}	16.9	X	134.47998	153.83291	76.94830	6.85850	0.2137835	0.19192335	2.9765796	21	10 30.8	22.0
443402 2014 HU_{37}	16.7	X	250.85434	266.73850	77.96482	10.88140	0.1967968	0.27373394	2.3491836	21	4 12.7	20.5
443403 2014 HC_{38}	16.4	X	2.07068	272.03455	71.95895	11.74491	0.0588914	0.18399711	3.0614609	21	10 3.4	20.6
443404 2014 HU_{38}	17.1	X	81.93894	265.13133	95.49706	7.32128	0.0450933	0.22106087	2.7089114	21	—	—
443405 2014 HA_{45}	16.7	X	76.15578	116.17866	167.89668	2.56268	0.0912901	0.19116961	2.9843985	21	10 26.1	20.9
443406 2014 HK_{45}	17.2	X	66.59148	263.51496	118.19736	7.30592	0.0978232	0.22579940	2.6708789	21	—	—
443407 2014 HP_{45}	16.2	X	7.44406	224.53614	115.35691	8.11151	0.1489528	0.18293665	3.0732807	21	10 10.5	19.9
443408 2014 HU_{47}	18.0	X	92.97429	77.68919	68.84229	4.78741	0.0608066	0.28697707	2.2763441	21	5 12.2	20.6
443409 2014 HW_{47}	17.2	X	242.12676	93.66690	79.63288	4.76399	0.0331679	0.21485330	2.7608408	21	12 19.6	21.0
443410 2014 HC_{48}	16.4	X	246.54242	188.62132	55.06802	14.92002	0.0831760	0.23942549	2.5685565	21	—	—
443411 2014 HK_{49}	17.3	X	32.13160	352.56005	40.87416	6.62307	0.0426619	0.21945449	2.7221145	21	—	—
443412 2014 HE_{50}	18.0	X	18.90122	110.93363	47.91895	3.68374	0.1419075	0.26609152	2.3939516	21	1 29.7	20.2
443413 2014 HA_{52}	17.3	X	158.78886	145.08626	132.63555	3.14899	0.0233484	0.22312583	2.6921721	21	—	—
443414 2014 HD_{62}	17.8	X	32.72329	22.06849	94.67557	4.63273	0.1383674	0.25686903	2.4509148	21	—	—
443415 2014 HY_{64}	17.6	X	171.22516	231.50164	181.68740	6.13890	0.1261503	0.28165546	2.3049275	21	4 20.6	20.9
443416 2014 HJ_{70}	17.0	X	113.13453	81.75607	124.50148	2.12229	0.0976767	0.17850090	3.1239863	21	9 1.5	21.7
443417 2014 HL_{73}	17.3	X	290.15860	323.44946	165.96445	3.96746	0.0367951	0.21763916	2.7372304	21	12 27.1	20.9
443418 2014 HM_{73}	17.6	X	174.14789	208.50635	115.27347	2.82058	0.1458724	0.23945700	2.5683312	21	1 6.5	21.3
443419 2014 HY_{73}	16.8	X	69.11524	211.42294	100.54070	3.25222	0.0650004	0.19861541	2.9093374	21	11 18.6	20.9
443420 2014 HC_{78}	16.7	X	44.35379	117.43741	194.25417	10.23765	0.0933900	0.18748568	3.0233654	21	10 20.4	20.7
443421 2014 HJ_{81}	16.8	X	74.49427	200.93119	145.35026	4.44291	0.1197658	0.21237716	2.7822587	21	—	—
443422 2014 HV_{83}	17.3	X	86.46980	185.44611	151.28122	5.04166	0.1126003	0.21252027	2.7810095	21	—	—
443423 2014 HJ_{93}	17.4	X	112.03107	321.68940	60.73831	10.37361	0.0683846	0.24282338	2.5445386	21	—	—
443424 2014 HP_{95}	15.9	X	355.37513	227.33906	106.44370	7.03960	0.1717211	0.17342280	3.1846760	21	9 8.5	19.4
443425 2014 HT_{107}	16.8	X	122.50101	162.48155	103.99459	5.71908	0.0867555	0.20026392	2.8933496	21	11 25.3	21.2
443426 2014 HJ_{111}	17.5	X	96.40642	273.74262	118.27615	6.63615	0.1382315	0.24040019	2.5616090	21	—	—
443427 2014 HH_{118}	17.7	X	187.67988	272.77767	116.48599	5.39248	0.1275203	0.27235722	2.3570934	21	4 8.7	21.2
443428 2014 HW_{118}	16.9	X	84.49003	228.33858	104.75197	7.65344	0.1508515	0.20632396	2.8364139	21	—	—
443429 2014 HJ_{123}	16.8	X	161.50713	6.96979	318.45389	5.15004	0.1216082	0.23671282	2.5881426	21	—	—
443430 2014 HH_{125}	16.8	X	80.96841	347.45299	8.76567	5.66847	0.0575755	0.22171382	2.7035903	21	—	—
443431 2014 HS_{130}	16.7	X	256.58636	220.19844	66.69189	6.99016	0.2082810	0.25984599	2.4321594	21	2 2.8	20.8
443432 2014 HZ_{130}	17.0	X	159.39449	66.73279	203.75768	3.63462	0.0636246	0.21456990	2.7632713	21	—	—
443433 2014 HQ_{133}	16.8	X	162.86561	199.24212	348.98080	4.35816	0.1230135	0.19105022	2.9856417	21	9 30.5	21.6
443434 2014 HO_{136}	17.1	X	66.35097	222.00955	78.85950	2.21719	0.0524261	0.19352210	2.9601633	21	10 29.9	21.2
443435 2014 HG_{138}	17.2	X	179.62424	171.65007	193.50129	6.79384	0.2293810	0.25714834	2.4491397	21	3 3.7	21.4
443436 2014 HH_{140}	17.1	X	121.99816	222.69000	25.29782	1.98188	0.0471206	0.19513927	2.9437862	21	10 28.9	21.4
443437 2014 HX_{140}	15.9	X	286.92555	349.18036	287.89491	1.48252	0.1629180	0.12692592	3.9213520	21	3 10.9	21.5
443438 2014 HF_{141}	16.9	X	292.49120	136.86362	344.91494	3.33131	0.0164177	0.21344379	2.7729819	21	12 21.4	20.7
443439 2014 HY_{146}	17.2	X	131.13347	135.29189	171.20232	6.49787	0.0199284	0.21919915	2.7242281	21	—	—
443440 2014 HG_{149}	16.6	X	44.00045	162.24140	231.01698	5.23013	0.0433976	0.21883202	2.7272742	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443441 2014 HP_{151}	17.1	X	333.37518	45.66906	41.73568	4.61219	0.0724103	0.21491962	2.7602728	21	—	—
443442 2014 HT_{152}	16.2	X	232.80067	70.14301	30.45794	10.47975	0.0388600	0.18010996	3.1053524	21	9 7.6	20.7
443443 2014 HX_{156}	17.0	X	186.95438	172.21507	76.24979	6.01651	0.0588689	0.22024402	2.7156052	21	—	—
443444 2014 HA_{160}	16.4	X	37.21991	182.28166	114.72971	6.73997	0.1273421	0.17794089	3.1305373	21	9 27.7	20.5
443445 2014 HF_{160}	16.7	X	45.63743	220.30889	58.91884	6.33402	0.1403470	0.17421185	3.1750525	21	9 18.6	20.9
443446 2014 HG_{160}	17.1	X	194.44878	109.34517	131.01331	5.85153	0.0604309	0.22073460	2.7115801	21	—	—
443447 2014 HA_{161}	16.4	X	142.67522	48.04983	180.25120	11.09817	0.1408025	0.19553310	2.9398321	21	11 1.9	21.2
443448 2014 HJ_{161}	16.7	X	85.88035	242.42073	106.67196	7.62274	0.0855734	0.21576603	2.7530494	21	—	—
443449 2014 HG_{162}	16.9	X	72.07567	121.90265	150.09769	8.35360	0.1636935	0.18031811	3.1029622	21	10 16.9	21.4
443450 2014 HT_{163}	17.2	X	353.41603	73.13872	160.66625	10.05357	0.0812024	0.27635035	2.3343324	21	4 10.5	19.7
443451 2014 HU_{163}	16.8	X	130.48728	353.00584	271.61566	3.55112	0.0803856	0.21026721	2.8008403	21	12 1.2	21.1
443452 2014 HJ_{167}	15.8	X	52.97909	197.70625	88.87752	12.06284	0.0106117	0.18132240	3.0914940	21	9 23.7	20.3
443453 2014 HB_{171}	16.5	X	138.79874	154.32113	143.79138	8.29458	0.1163714	0.21807645	2.7335700	21	—	—
443454 2014 HS_{171}	16.4	X	359.40238	357.03152	85.65129	10.28228	0.0363345	0.22729714	2.6591331	21	—	—
443455 2014 HH_{176}	16.1	X	128.50034	43.87529	259.82038	5.15955	0.0399280	0.21432760	2.7653535	21	—	—
443456 2014 HK_{179}	15.9	X	73.45411	140.05493	119.13202	18.59163	0.1472920	0.17562930	3.1579463	21	10 5.1	20.8
443457 2014 HW_{183}	17.4	X	263.67565	221.82934	100.08256	6.80989	0.1524902	0.27371073	2.3493163	21	3 29.4	20.9
443458 2014 HY_{184}	16.8	X	238.26301	108.71878	77.79667	5.88413	0.0482762	0.21413259	2.7670321	21	12 28.9	20.6
443459 2014 HZ_{184}	17.2	X	252.30776	28.30950	180.55645	5.10146	0.0167606	0.22699317	2.6615064	21	—	—
443460 2014 HE_{188}	15.7	X	73.02987	197.19701	104.22265	12.65277	0.1322902	0.19060152	2.9903256	21	11 20.6	20.2
443461 2014 HV_{188}	16.1	X	88.15428	284.00687	12.12474	11.68508	0.2419729	0.20165542	2.8800241	21	12 6.6	21.0
443462 2014 HH_{189}	16.0	X	58.49073	135.08280	156.14072	9.57574	0.0914104	0.17929025	3.1148103	21	10 13.8	20.4
443463 2014 HD_{190}	16.2	X	115.19167	343.29547	51.82378	14.59782	0.1710630	0.24270241	2.5453841	21	2 7.6	19.8
443464 2014 HL_{190}	16.9	X	152.28088	341.70662	62.72214	7.16670	0.1296832	0.26225336	2.4172524	21	3 24.5	20.4
443465 2014 HA_{191}	17.1	X	88.57800	192.16513	153.05740	6.84841	0.0165257	0.21712562	2.7415447	21	—	—
443466 2014 HK_{192}	16.6	X	82.30117	251.91291	27.20059	10.11548	0.1703216	0.18400946	3.0613238	21	11 2.8	21.1
443467 2014 JM_{1}	17.0	X	103.24026	185.57841	107.83188	3.20638	0.0420894	0.20306981	2.8666355	21	12 3.3	21.0
443468 2014 JO_{1}	17.3	X	206.60434	63.97109	129.35019	3.01763	0.0099600	0.20625331	2.8370616	21	12 2.7	21.1
443469 2014 JZ_{1}	17.9	X	89.70198	25.82387	77.98209	5.64874	0.0618364	0.26688972	2.3891761	21	3 12.3	20.7
443470 2014 JB_{2}	17.1	X	105.69858	208.91945	83.18058	3.21048	0.0396482	0.20331619	2.8643191	21	12 4.1	21.1
443471 2014 JE_{3}	16.4	X	42.03823	294.48631	52.43369	10.54303	0.0812352	0.19655276	2.9296560	21	11 28.4	20.4
443472 2014 JM_{3}	16.5	X	171.56281	31.18440	173.96915	6.61151	0.0526868	0.19378883	2.9574465	21	11 2.5	20.9
443473 2014 JR_{4}	16.9	X	258.65238	109.46378	84.18375	13.45295	0.1676275	0.22944122	2.6425411	21	—	—
443474 2014 JZ_{6}	16.2	X	75.58236	92.72948	212.57392	10.57805	0.0704832	0.19269492	2.9686286	21	11 17.9	20.4
443475 2014 JB_{7}	16.6	X	65.38149	185.23404	130.91807	3.41025	0.0712620	0.19286767	2.9668557	21	11 19.4	20.8
443476 2014 JK_{7}	17.2	X	72.87796	296.22206	78.18160	7.07751	0.0517845	0.21992479	2.7182324	21	—	—
443477 2014 JK_{8}	17.6	X	173.54725	213.58034	114.64417	3.67835	0.1150840	0.23704935	2.5856924	21	1 9.1	21.3
443478 2014 JQ_{9}	16.8	X	114.51464	130.20068	216.55321	13.38700	0.0623784	0.22430378	2.6827384	21	—	—
443479 2014 JG_{11}	16.4	X	40.89402	223.62020	73.82235	9.47313	0.0661608	0.17623093	3.1507549	21	9 27.1	20.8
443480 2014 JK_{13}	16.5	X	303.96192	303.68007	205.22045	12.10546	0.1210730	0.22755602	2.6571159	21	—	—
443481 2014 JC_{14}	16.5	X	119.28655	291.93569	80.54708	10.17423	0.0401086	0.23690107	2.5867713	21	—	—
443482 2014 JC_{19}	17.2	X	193.30243	143.40056	201.78193	5.97725	0.1587333	0.25758118	2.4463953	21	2 15.6	21.1
443483 2014 JC_{21}	17.0	X	293.80338	175.71822	79.67713	7.86333	0.0890536	0.26687376	2.3892713	21	2 12.6	20.3
443484 2014 JE_{21}	16.5	X	106.91710	151.22374	139.08071	2.56901	0.0443301	0.21014368	2.8019378	21	12 5.2	20.4
443485 2014 JH_{21}	15.6	X	55.40171	356.94289	262.41371	15.28341	0.0697292	0.17036293	3.2226958	21	8 16.6	20.3
443486 2014 JR_{21}	15.4	X	26.63466	220.90292	103.90497	11.49179	0.1358544	0.18185197	3.0854893	21	10 21.9	19.5
443487 2014 JT_{21}	17.3	X	241.43075	39.45429	158.58785	9.35451	0.1278787	0.22305998	2.6927019	21	—	—
443488 2014 JY_{21}	16.8	X	236.20695	95.71607	82.77434	7.75008	0.2232624	0.21331965	2.7740576	21	11 23.8	20.8
443489 2014 JC_{22}	16.3	X	77.67595	140.35263	111.94337	14.29826	0.0921128	0.17710755	3.1403496	21	9 22.4	21.0
443490 2014 JW_{22}	16.7	X	158.56954	221.38514	88.42721	9.86939	0.1734133	0.21875882	2.7278825	21	—	—
443491 2014 JW_{23}	16.2	X	19.95663	212.80699	100.18281	6.96708	0.0919027	0.17379908	3.1800778	21	9 18.1	20.3
443492 2014 JE_{24}	16.6	X	340.33561	68.41536	72.79768	15.89259	0.0930968	0.23663445	2.5887140	21	—	—
443493 2014 JB_{26}	15.9	X	82.62836	175.44101	131.09290	15.73900	0.1290552	0.19229890	2.9727029	21	12 6.5	20.6
443494 2014 JN_{26}	16.6	X	198.69563	65.48617	124.99494	12.73723	0.1211555	0.20411221	2.8568672	21	11 13.3	21.2
443495 2014 JS_{26}	16.4	X	110.88396	97.64740	131.28127	14.10596	0.1359896	0.18137732	3.0908699	21	10 5.2	21.4
443496 2014 JG_{27}	16.5	X	90.19478	205.44205	131.19096	14.61196	0.1864201	0.20589707	2.8403330	21	—	—
443497 2014 JR_{32}	16.3	X	18.23785	226.81770	111.63398	19.35604	0.0326779	0.18187698	3.0852064	21	10 19.6	20.9
443498 2014 JG_{33}	17.0	X	152.38136	152.82002	145.59278	4.24306	0.0580694	0.22290089	2.6939830	21	—	—
443499 2014 JK_{35}	17.0	X	349.10178	340.91690	81.40557	4.07717	0.0478854	0.20953437	2.8073671	21	12 21.3	20.7
443500 2014 JS_{35}	16.9	X	100.75746	147.17472	158.96267	2.29084	0.0619120	0.20396764	2.8582170	21	12 17.6	21.1
443501 2014 JU_{35}	16.9	X	112.89540	99.64749	205.25524	6.77746	0.0242246	0.20970647	2.8058309	21	12 27.4	20.9
443502 2014 JV_{37}	17.1	X	148.98728	126.83523	139.54344	2.72720	0.0383209	0.20703636	2.8299036	21	12 22.3	21.1
443503 2014 JF_{39}	16.6	X	37.93567	163.31651	148.21489	1.24787	0.1756234	0.17711219	3.1402947	21	10 21.4	20.7
443504 2014 JM_{39}	16.8	X	136.67258	199.71889	202.80082	11.55398	0.1487179	0.25620947	2.4551193	21	2 28.6	20.4
443505 2014 JU_{39}	15.7	X	72.25396	229.22762	70.47570	11.91209	0.0950140	0.18756338	3.0225304	21	11 11.1	20.1
443506 2014 JD_{41}	16.9	X	294.09252	276.37947	211.81384	5.71219	0.0119265	0.20988239	2.8042628	21	12 30.4	20.8
443507 2014 JE_{41}	16.6	X	84.86507	257.61041	61.44844	6.84406	0.0926777	0.19891581	2.9064075	21	12 17.5	20.9
443508 2014 JN_{43}	16.0	X	188.27890	26.48166	115.79289	9.86729	0.0929565	0.17503351	3.1651083	21	9 2.8	21.0
443509 2014 JJ_{44}	16.9	X	63.31782	129.55601	199.21688	1.55767	0.1046674	0.19717383	2.9235007	21	12 6.7	21.0
443510 2014 JS_{44}	17.6	X	33.03739	57.14659	48.53987	4.84216	0.0186996	0.24329028	2.5412821	21	—	—
443511 2014 JR_{45}	17.3	X	111.89114	313.73186	33.02467	1.51375	0.0921538	0.22350896	2.6890947	21	—	—
443512 2014 JB_{46}	17.3	X	271.33808	136.62563	36.40085	6.15881	0.0269910	0.22323292	2.6913110	21	—	—
443513 2014 JD_{52}	16.0	X	13.59946	292.01055	52.52299	7.46473	0.0975554	0.18236656	3.0796823	21	10 19.3	19.9
443514 2014 JR_{52}	16.4	X	41.04642	220.60669	64.02203	10.70400	0.0931661	0.16989347	3.2286299	21	9 14.7	20.9
443515 2014 JS_{52}	16.7	X	118.37008	14.56742	226.28011	8.77167	0.1016062	0.18552957	3.0445793	21	10 18.4	21.4
443516 2014 JQ_{53}	16.6	X	60.40661	216.09751	70.50595	5.75023	0.0938255	0.17827928	3.1265746	21	10 10.6	21.0
443517 2014 JY_{57}	16.9	X	115.99062	126.29369	125.76079	11.18951	0.2024181	0.18931593	3.0038479	21	11 10.6	22.0
443518 2014 JY_{58}	16.1	X	93.35246	163.63409	110.33008	17.98520	0.1922526	0.18503665	3.0499839	21	11 17.2	21.2
443519 2014 JV_{59}	16.7	X	86.87126	235.42719	130.73035	6.60335	0.0359647	0.22011378	2.7166763	21	—	—
443520 2014 JW_{59}	17.5	X	204.52089	214.53861	128.86576	6.76664	0.0851314	0.25424212	2.4677683	21	2 26.2	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443521 2014 JB_{60}	16.2	X	14.53549	144.83335	200.06621	10.03717	0.1317144	0.17923936	3.1153998	21	10 22.8	20.1
443522 2014 JX_{60}	17.2	X	257.77778	72.94712	88.30820	8.69332	0.1611388	0.21496220	2.7599083	21	12 6.6	20.7
443523 2014 JE_{61}	17.4	X	198.77416	221.60355	24.63920	3.67888	0.1471892	0.21700007	2.7426021	21	—	—
443524 2014 JL_{62}	16.6	X	115.80561	181.04960	146.84059	5.69034	0.1051432	0.21251005	2.7810987	21	—	—
443525 2014 JP_{65}	16.3	X	96.15962	40.93543	190.10220	10.34730	0.1636174	0.17522302	3.1628259	21	9 19.0	21.1
443526 2014 JE_{67}	16.5	X	122.80001	166.53373	112.66538	6.78503	0.0386605	0.20061087	2.8900126	21	12 7.9	20.7
443527 2014 JK_{67}	16.4	X	49.29198	75.96992	207.74348	9.58731	0.0570982	0.17318749	3.1875600	21	9 11.6	20.9
443528 2014 JZ_{67}	17.4	X	26.38482	76.65928	93.04842	6.69576	0.1702556	0.26904058	2.3764254	21	3 2.7	19.4
443529 2014 JS_{70}	17.0	X	245.20214	136.41325	35.51637	4.26776	0.1793522	0.21551583	2.7551797	21	11 30.5	20.9
443530 2014 JP_{71}	16.5	X	353.26885	250.25363	239.14909	8.51127	0.0775734	0.23665800	2.5885423	21	—	—
443531 2014 JU_{72}	16.8	X	185.30064	50.34725	212.05778	3.66889	0.0754815	0.21759918	2.7375657	21	—	—
443532 2014 JW_{73}	16.6	X	104.31933	104.09432	143.45340	1.71332	0.1109566	0.18231541	3.0802583	21	10 14.2	21.1
443533 2014 JX_{75}	16.6	X	224.54830	308.59928	252.59243	5.18950	0.0064954	0.21072595	2.7967740	21	—	—
443534 2014 KY	16.4	X	86.93630	61.88989	185.02904	11.22862	0.2359569	0.17637153	3.1490803	21	10 8.5	21.3
443535 2014 KJ_{1}	16.0	X	40.53003	143.53427	153.74346	9.92455	0.0720746	0.17742789	3.1365686	21	9 23.9	20.2
443536 2014 KY_{1}	16.6	X	96.26533	115.73094	111.39025	17.03490	0.1738714	0.17437106	3.1731196	21	9 23.3	21.8
443537 2014 KR_{2}	16.2	X	82.84115	44.21491	199.57107	10.49070	0.1458136	0.17595425	3.1540571	21	9 17.3	20.8
443538 2014 KG_{3}	16.1	X	20.43104	164.73961	151.17634	10.02947	0.0918512	0.17717812	3.1395156	21	9 21.4	20.1
443539 2014 KQ_{3}	16.8	X	258.98308	177.78008	17.02218	3.34315	0.0895468	0.23857364	2.5746671	21	—	—
443540 2014 KT_{3}	16.9	X	242.32599	125.70782	76.13803	10.66352	0.1571887	0.22711948	2.6605195	21	—	—
443541 2014 KT_{4}	16.3	X	124.63185	71.35176	136.08110	17.57493	0.1877801	0.17874291	3.1211657	21	9 25.6	21.6
443542 2014 KU_{7}	16.8	X	136.17262	259.59405	28.44362	4.81505	0.0465513	0.21406031	2.7676550	21	—	—
443543 2014 KM_{9}	17.2	X	174.21210	73.32600	217.86746	4.34281	0.0820602	0.22448489	2.6812952	21	—	—
443544 2014 KO_{9}	16.5	X	71.41839	107.57825	236.09692	4.87170	0.1307298	0.20037460	2.8922840	21	—	—
443545 2014 KK_{10}	16.5	X	59.82932	159.72877	137.43320	0.92768	0.2053336	0.17661098	3.1462333	21	11 5.0	20.9
443546 2014 KX_{11}	17.2	X	128.02799	175.87760	107.78078	3.22471	0.0344048	0.20305060	2.8668163	21	12 18.8	21.3
443547 2014 KE_{13}	16.9	X	94.22113	178.70729	80.87303	5.88550	0.0840672	0.18048747	3.1010208	21	10 16.6	21.4
443548 2014 KO_{13}	16.5	X	84.78005	194.06790	67.13586	7.92485	0.1221601	0.17794681	3.1304678	21	10 13.1	21.1
443549 2014 KM_{14}	15.8	X	35.38558	144.00096	155.81681	8.81594	0.1114106	0.17450148	3.1715384	21	9 24.5	19.9
443550 2014 KX_{14}	16.1	X	84.61715	222.05727	103.04456	13.55099	0.1273311	0.20225370	2.8743418	21	12 29.0	20.5
443551 2014 KZ_{14}	16.2	X	88.31904	130.43643	134.77693	10.80426	0.0793181	0.18417157	3.0595272	21	10 18.3	20.8
443552 2014 KQ_{16}	16.3	X	61.52310	267.67574	74.58645	12.34255	0.1211484	0.19673705	2.9278261	21	12 22.4	20.4
443553 2014 KO_{17}	16.9	X	83.21752	259.97751	204.32790	7.75537	0.0885729	0.25903578	2.4372283	21	3 2.6	19.8
443554 2014 KD_{18}	16.4	X	336.32605	206.67893	213.46779	11.43426	0.0370903	0.19871196	2.9083949	21	11 28.9	20.3
443555 2014 KJ_{18}	17.1	X	280.32941	30.97106	131.19559	4.69770	0.0868954	0.22055306	2.7130678	21	—	—
443556 2014 KU_{23}	16.8	X	41.01594	269.18636	83.26824	4.64796	0.2165597	0.18983038	2.9984184	21	12 22.8	20.7
443557 2014 KA_{24}	16.2	X	37.91943	180.79073	120.34161	14.94759	0.1309258	0.17645439	3.1480943	21	10 7.8	20.6
443558 2014 KQ_{25}	16.5	X	81.34200	163.82490	193.59527	5.61584	0.0049562	0.21500939	2.7595044	21	—	—
443559 2014 KU_{25}	17.4	X	305.06290	257.47561	107.03544	7.65081	0.1606085	0.29714352	2.2241217	21	7 21.6	19.4
443560 2014 KY_{26}	17.1	X	218.52545	266.28304	122.75052	7.70333	0.1216650	0.28567553	2.2832529	21	5 9.8	20.5
443561 2014 KC_{28}	16.8	X	146.14688	226.27654	121.83141	9.95059	0.0222682	0.24252302	2.5466391	21	—	—
443562 2014 KJ_{28}	15.6	X	354.30264	218.88176	107.08743	9.89000	0.0775585	0.17456750	3.1707387	21	8 25.2	19.7
443563 2014 KG_{30}	16.5	X	61.20774	207.31319	96.74560	7.35051	0.0975787	0.18554689	3.0443898	21	11 3.8	20.8
443564 2014 KM_{31}	16.6	X	33.28652	113.85088	204.77497	10.04697	0.1639775	0.17541247	3.1605482	21	10 21.3	20.6
443565 2014 KX_{31}	16.2	X	5.39230	253.99611	90.14782	9.42064	0.0877035	0.17660935	3.1462526	21	10 7.9	20.3
443566 2014 KL_{33}	17.2	X	21.20603	350.81947	105.30913	3.57073	0.0234336	0.23085172	2.6317662	21	—	—
443567 2014 KY_{34}	16.7	X	282.70927	50.58263	91.39067	13.70924	0.1606343	0.22223991	2.6993219	21	12 20.4	19.8
443568 2014 KP_{35}	17.4	X	35.47190	280.30122	168.02338	11.85180	0.0239696	0.23870596	2.5737155	21	—	—
443569 2014 KU_{40}	16.6	X	113.71294	106.11215	213.86229	5.81887	0.0575049	0.21864100	2.7288625	21	—	—
443570 2014 KU_{42}	16.1	X	37.81889	140.19952	173.85646	15.54280	0.1114259	0.17579544	3.1559563	21	10 17.0	20.3
443571 2014 KZ_{42}	16.0	X	306.00131	23.71171	92.45488	17.91582	0.0396197	0.20692196	2.8309465	21	12 29.1	19.7
443572 2014 KL_{51}	16.3	X	89.16286	63.62340	174.41061	17.66253	0.0977341	0.17085148	3.2165494	21	9 12.1	21.0
443573 2014 KW_{53}	16.5	X	128.77443	103.77597	97.15412	11.16079	0.0772660	0.17340601	3.1848815	21	9 14.3	21.4
443574 2014 KQ_{55}	16.5	X	100.69429	77.08911	199.11226	10.07114	0.0696715	0.18829250	3.0147227	21	11 10.9	21.0
443575 2014 KC_{57}	16.1	X	32.31755	187.34693	146.32844	9.44734	0.1559872	0.17761734	3.1343379	21	11 10.1	20.3
443576 2014 KL_{58}	16.2	X	356.33524	189.00317	176.90223	10.16233	0.1888746	0.17404783	3.1770470	21	10 24.2	19.7
443577 2014 KV_{59}	15.9	X	253.65935	291.75801	281.29759	13.80120	0.0394445	0.22804185	2.6533407	21	—	—
443578 2014 KA_{65}	17.7	X	193.19424	10.60731	84.29173	8.00850	0.0552067	0.29498100	2.2349785	21	7 10.9	20.5
443579 2014 KC_{66}	16.6	X	67.90561	102.27028	231.20998	9.67423	0.1166269	0.19361564	2.9592098	21	12 18.1	20.9
443580 2014 KE_{67}	17.0	X	359.35257	357.74671	101.21253	7.08667	0.0268625	0.22201150	2.7011731	21	—	—
443581 2014 KZ_{67}	16.0	X	318.48797	216.28261	205.71123	10.97595	0.1032352	0.18992143	2.9974601	21	11 2.1	19.5
443582 2014 KR_{70}	16.4	X	109.00746	120.40376	118.88669	10.97717	0.0400151	0.17822345	3.1272275	21	10 5.9	21.1
443583 2014 KE_{71}	16.3	X	11.19603	280.77889	92.59051	14.13216	0.1383599	0.18584542	3.0411287	21	11 27.2	20.1
443584 2014 KC_{73}	16.3	X	351.91486	193.70914	168.91633	9.79630	0.0896482	0.17507032	3.1646646	21	10 7.5	20.2
443585 2014 KL_{73}	15.9	X	42.87733	219.44088	104.79946	13.52588	0.0689243	0.18415664	3.0596925	21	11 4.3	20.3
443586 2014 KP_{75}	16.6	X	287.91107	195.33134	12.84704	7.24206	0.1145554	0.23951719	2.5679009	21	—	—
443587 2014 KM_{78}	15.8	X	43.38665	69.04849	233.75863	13.17314	0.1564949	0.17527979	3.1621429	21	10 11.6	20.2
443588 2014 KL_{82}	16.2	X	114.37758	158.49219	65.64637	12.31770	0.0954850	0.17678088	3.1442170	21	9 30.3	21.1
443589 2014 KZ_{85}	15.8	X	79.14748	201.41213	89.17650	6.53144	0.1489162	0.18331257	3.0690778	21	11 13.3	20.3
443590 2014 KG_{87}	16.7	X	150.74363	214.16602	161.02677	8.64537	0.0313091	0.25494481	2.4632317	21	1 28.1	19.9
443591 2014 KK_{88}	16.8	X	69.33634	279.81008	135.12644	15.34427	0.1038565	0.23133127	2.6281278	21	—	—
443592 2014 KU_{89}	16.8	X	151.40493	128.06286	171.93848	9.64933	0.1806883	0.21901103	2.7257879	21	—	—
443593 2014 KJ_{91}	16.0	X	353.03023	254.52367	128.27676	16.64491	0.1126187	0.18294917	3.0731405	21	11 11.4	20.1
443594 2014 KL_{91}	15.9	X	51.53699	212.22004	118.46690	11.51496	0.0892876	0.18829393	3.0147075	21	11 24.1	20.2
443595 2014 KQ_{92}	15.7	X	15.19129	274.86450	82.53927	10.92887	0.1422202	0.18167554	3.0874866	21	11 12.8	19.5
443596 2014 KM_{93}	17.1	X	155.99738	233.45696	188.39638	10.00014	0.0894652	0.26428070	2.4048745	21	4 13.7	20.4
443597 2014 KU_{93}	16.3	X	112.78372	126.09426	87.33926	6.30516	0.0713537	0.17010102	3.2260030	21	9 9.2	21.1
443598 2014 KY_{94}	17.0	X	268.80042	20.49932	116.70489	13.46376	0.0685736	0.20324187	2.8650174	21	12 4.2	21.0
443599 2014 KJ_{96}	15.5	X	221.66115	16.88263	87.75394	14.06145	0.0576548	0.17175089	3.2053101	21	8 28.4	20.4
443600 2014 KC_{97}	15.7	X	47.92906	66.05888	228.05717	14.61245	0.0772956	0.17308681	3.1887960	21	9 23.8	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443601 2014 KA_{98}	16.5	X	112.58811	186.87438	58.24275	6.38562	0.1138138	0.18179229	3.0861646	21	10 21.1	21.3
443602 2014 KE_{98}	15.9	X	50.00285	215.07624	73.90417	9.17132	0.0196314	0.17248180	3.1962485	21	9 21.8	20.5
443603 2014 KM_{100}	15.9	X	43.49392	112.84042	195.74946	10.74772	0.0991817	0.17625661	3.1504489	21	10 14.2	19.9
443604 2014 KP_{101}	15.5	X	155.47628	338.42333	259.82644	11.26678	0.0304312	0.19759340	2.9193607	21	11 23.5	19.7
443605 2014 LZ_{2}	17.1	X	73.03243	321.31532	104.86712	6.02691	0.0963381	0.23936803	2.5689675	21	1 1.5	20.0
443606 2014 LG_{8}	16.2	X	26.19553	254.49606	94.54309	10.61443	0.1105837	0.18559770	3.0438342	21	11 15.6	20.2
443607 2014 LT_{8}	16.8	X	340.62584	29.86514	98.18126	8.70755	0.0354745	0.22757610	2.6569596	21	—	—
443608 2014 LA_{10}	16.0	X	89.86859	134.65644	101.21551	12.80608	0.0647028	0.16919013	3.2375715	21	9 11.7	20.8
443609 2014 LX_{10}	16.2	X	65.16189	137.47036	152.66808	11.19685	0.0300259	0.18086520	3.0967018	21	10 12.9	20.6
443610 2014 LZ_{10}	16.1	X	47.04046	229.97963	84.98603	12.66931	0.0936396	0.18120352	3.0928461	21	10 31.4	20.5
443611 2014 LZ_{14}	16.1	X	36.36964	170.58314	154.25689	20.75768	0.0984953	0.17727528	3.1383685	21	10 30.1	20.6
443612 2014 LA_{22}	17.6	X	71.25266	22.57941	144.60313	6.28956	0.0424563	0.27593681	2.3366641	21	5 9.4	20.3
443613 2014 LC_{22}	15.9	X	79.42359	188.95073	121.02810	16.48879	0.0695916	0.19169194	2.9789747	21	11 30.9	20.5
443614 2014 LT_{22}	15.8	X	109.00002	14.49342	255.36495	9.20692	0.0594971	0.18903845	3.0067867	21	11 9.2	20.3
443615 2014 LA_{25}	16.3	X	109.74706	92.54381	118.98739	23.42804	0.2614959	0.17707921	3.1406847	21	9 26.2	21.9
443616 2014 LG_{25}	15.7	X	17.97971	114.65346	240.67922	14.45709	0.1239440	0.18151427	3.0893151	21	11 8.7	19.6
443617 2014 LJ_{25}	16.2	X	16.75146	250.67522	82.90759	10.57821	0.1023072	0.17466134	3.1696030	21	10 12.9	20.4
443618 2014 MO_{1}	16.1	X	166.35126	320.65850	190.70109	15.43316	0.1466749	0.17296498	3.1902932	21	8 16.9	21.5
443619 2014 MM_{2}	16.2	X	8.33707	229.08239	263.58518	11.39573	0.0709716	0.24321782	2.5417868	21	—	—
443620 2014 MJ_{3}	15.9	X	10.14449	191.89828	157.42697	15.49492	0.1040364	0.17863881	3.1223782	21	10 22.5	20.0
443621 2014 MK_{11}	15.7	X	183.64522	324.10757	249.11986	9.19027	0.0493886	0.18245182	3.0787227	21	11 21.9	20.4
443622 2014 MA_{21}	16.5	X	236.09883	156.86577	90.21719	15.92649	0.0884437	0.21645367	2.7472156	21	—	—
443623 2014 MM_{23}	15.4	X	113.80880	342.35372	259.78169	9.92710	0.0197791	0.17872289	3.1213989	21	10 3.6	20.0
443624 2014 ML_{34}	16.3	X	28.10895	182.61309	155.60890	10.69942	0.1204669	0.18088272	3.0965017	21	11 5.6	20.4
443625 2014 MM_{34}	15.6	X	358.82674	257.49367	103.72565	17.29558	0.0351898	0.18342960	3.0677721	21	10 21.9	20.1
443626 2014 MM_{36}	16.5	X	309.30737	57.78832	118.52109	22.35159	0.0248748	0.23261762	2.6184300	21	—	—
443627 2014 MX_{40}	16.0	X	354.19072	220.68375	142.20057	10.90018	0.1351841	0.17666727	3.1455649	21	10 15.9	19.8
443628 2014 MS_{46}	16.3	X	91.48073	169.99999	196.66208	12.42146	0.0998044	0.19776241	2.9176972	21	—	—
443629 2014 MQ_{47}	16.6	X	114.91219	29.62709	182.10741	5.06391	0.1211898	0.17178919	3.2048337	21	9 10.8	21.5
443630 2014 MM_{54}	16.2	X	150.63484	295.67069	330.95774	11.95883	0.0731967	0.19105930	2.9855471	21	12 21.8	21.0
443631 2014 MD_{58}	15.9	X	318.04164	314.83008	128.38813	6.60588	0.1120576	0.17499877	3.1655272	21	11 25.8	19.8
443632 2014 NA_{1}	17.2	X	140.06966	336.19892	143.54439	7.10837	0.0649442	0.28136390	2.3065195	21	6 9.4	20.3
443633 2014 NH_{17}	16.1	X	247.99876	260.20555	220.86496	9.59913	0.0482372	0.18473213	3.0533348	21	10 14.8	20.4
443634 2014 NR_{55}	16.1	X	193.11925	170.33891	85.68714	10.35706	0.0126863	0.19253504	2.9702719	21	—	—
443635 2014 NW_{61}	16.6	X	207.28393	206.29261	84.61566	12.37129	0.0565613	0.22217536	2.6998448	21	—	—
443636 2014 OE	16.3	X	153.07820	237.47650	120.25346	10.27135	0.0377901	0.22233215	2.6985753	21	1 17.2	19.8
443637 2014 OB_{6}	16.1	X	356.40592	324.75342	121.13132	15.44064	0.0965274	0.21625386	2.7489076	21	—	—
443638 2014 OY_{14}	17.1	X	137.63623	327.92326	128.59861	6.71593	0.1060142	0.25502263	2.4627306	21	5 12.5	20.6
443639 2014 OB_{131}	16.0	X	54.59178	148.98594	177.84635	12.27706	0.1007842	0.18462598	3.0545050	21	11 23.2	20.4
443640 2014 OR_{131}	15.7	X	64.23953	141.63490	135.55789	15.98099	0.0159757	0.17474681	3.1685693	21	9 24.0	20.3
443641 2014 OH_{202}	15.8	X	169.51392	114.26701	115.17482	11.67071	0.0295041	0.17896701	3.1185597	21	11 28.8	20.5
443642 2014 OH_{207}	15.3	X	351.68602	332.43247	66.76221	10.47677	0.0691769	0.17437714	3.1730458	21	11 20.3	19.5
443643 2014 OQ_{211}	15.8	X	315.61199	346.59664	137.21153	13.11792	0.0718375	0.18628675	3.0363238	21	—	—
443644 2014 ON_{212}	16.0	X	38.97691	189.01787	141.28855	14.52300	0.1312886	0.17815340	3.1280473	21	11 13.3	20.4
443645 2014 OO_{212}	15.7	X	210.81453	346.24183	145.86368	16.50035	0.0300668	0.17436382	3.1732075	21	9 19.3	20.3
443646 2014 OB_{240}	16.1	X	100.09922	202.37150	113.39197	10.02881	0.0924486	0.18458119	3.0549991	21	12 27.5	20.7
443647 2014 OX_{281}	16.0	X	133.42440	156.55298	98.56663	11.64375	0.1860366	0.17663191	3.1459847	21	11 24.5	21.3
443648 2014 OO_{316}	16.0	X	304.80792	348.95092	106.77992	11.58247	0.0610864	0.17631811	3.1497163	21	11 26.8	20.3
443649 2014 ON_{343}	15.6	X	48.73858	286.65409	110.04364	10.30854	0.1085132	0.19015889	2.9949641	21	—	—
443650 2014 QU_{189}	16.0	X	341.08928	267.90663	167.80095	10.15623	0.0814369	0.17420209	3.1751712	21	12 20.3	20.3
443651 2015 DS_{211}	16.9	X	231.36867	155.19383	89.43673	7.19613	0.0786292	0.27208186	2.3586834	21	—	—
443652 2015 EU_{64}	17.4	X	261.24614	164.95586	38.65317	3.58879	0.1784549	0.27465500	2.3439286	21	—	—
443653 2015 FO_{32}	17.2	X	253.98340	36.93964	154.70084	5.84119	0.0997548	0.26260814	2.4150748	21	—	—
443654 2015 FT_{43}	17.1	X	162.71219	38.04622	176.90534	9.44003	0.2245335	0.23062397	2.6334986	21	11 6.6	21.7
443655 2015 FP_{76}	16.4	X	33.67281	226.19151	85.90332	5.70239	0.0578840	0.21324173	2.7747333	21	10 7.2	20.0
443656 2015 FB_{77}	14.8	X	260.06527	245.86420	49.98387	18.81461	0.0320457	0.14891348	3.5251698	21	3 26.5	20.1
443657 2015 FK_{77}	15.4	X	307.27897	262.04865	69.64930	9.81495	0.0535912	0.18396408	3.0618273	21	6 22.8	19.6
443658 2015 FY_{115}	15.2	X	34.46652	32.88360	172.06157	22.64876	0.0337585	0.18553199	3.0445528	21	5 15.7	19.7
443659 2015 FM_{213}	15.8	X	282.09658	246.72928	99.20631	10.89496	0.0967154	0.18303650	3.0721630	21	6 2.8	20.2
443660 2015 FH_{294}	15.5	X	104.52950	69.49608	72.28050	16.44617	0.0751130	0.17645862	3.1480440	21	5 30.2	19.9
443661 2015 FF_{301}	16.7	X	120.41884	154.44269	132.71611	11.26792	0.1630366	0.23358088	2.6112264	21	12 25.4	21.0
443662 2015 FC_{302}	16.2	X	53.48257	172.25763	164.52584	15.06096	0.1031447	0.22607481	2.6687093	21	12 11.6	20.2
443663 2015 FY_{314}	16.7	X	195.90339	135.90385	108.98099	7.92367	0.0715276	0.26292142	2.4131560	21	—	—
443664 2015 FX_{315}	16.0	X	286.06193	299.61422	93.90541	8.13957	0.0247776	0.21220959	2.7837232	21	8 22.7	19.8
443665 2015 FO_{335}	17.1	X	201.47255	128.28382	140.93060	5.96869	0.1681884	0.26016417	2.4301760	21	—	—
443666 2015 FV_{337}	15.7	X	12.07992	154.94798	113.40639	9.41895	0.1384305	0.17354984	3.1831216	21	7 7.0	19.3
443667 2015 FE_{338}	17.2	X	119.44831	294.20523	128.43456	6.71579	0.0616120	0.29381393	2.2408930	21	2 18.5	19.6
443668 2015 HX	17.7	X	214.69015	190.98385	96.64516	7.05316	0.2937735	0.28283090	2.2985369	21	—	—
443669 2015 HA_{43}	15.9	X	30.59857	74.69297	184.97062	16.66275	0.1683923	0.18188554	3.0851097	21	7 28.4	19.8
443670 2015 HX_{60}	16.7	X	139.34158	123.75432	166.50495	14.86182	0.1313413	0.23500119	2.6006945	21	—	—
443671 2015 HL_{94}	16.3	X	31.26915	134.82628	158.72344	6.46016	0.0629376	0.20169577	2.8796399	21	9 5.5	19.9
443672 2015 HR_{148}	17.1	X	203.79094	48.54137	258.42007	6.40441	0.1605774	0.28031764	2.3122552	21	1 7.4	20.6
443673 2015 HD_{155}	16.3	X	77.82997	51.62549	236.96438	11.03931	0.2500640	0.22040658	2.7142698	21	11 24.1	20.5
443674 2015 HN_{170}	18.9	X	301.88552	249.92692	39.34995	5.69708	0.3683390	0.30964690	2.1638387	21	2 25.3	22.2
443675 2015 HF_{171}	17.4	X	224.27102	146.55350	140.20031	5.32140	0.2199891	0.27769350	2.3267992	21	1 2.7	21.4
443676 2015 KO_{4}	16.0	X	68.68321	289.22186	249.88373	8.49861	0.0455501	0.18204598	3.0832968	21	5 26.6	20.0
443677 2015 KP_{8}	17.2	X	97.68270	270.45235	39.65316	2.03692	0.1588834	0.22844582	2.6502117	21	12 30.9	21.4
443678 2015 KJ_{13}	16.1	X	334.76289	152.13779	159.69700	12.86320	0.0909037	0.17598340	3.1537087	21	7 2.9	20.4
443679 2015 KP_{13}	17.0	X	83.75089	182.88111	129.29959	12.91993	0.1486766	0.22220987	2.6995652	21	12 19.2	21.3
443680 2015 KZ_{13}	16.9	X	141.07526	110.33657	147.17260	10.09080	0.0291793	0.22920737	2.6443382	21	12 8.0	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443681 2015 KS_{14}	17.1	X	127.95601	106.82418	137.79891	8.63864	0.1594274	0.21827427	2.7319182	21	11 12.1	21.6
443682 2015 KZ_{15}	16.0	X	325.33803	203.12756	165.11111	11.30704	0.1195086	0.19299368	2.9655641	21	8 31.4	19.6
443683 2015 KF_{16}	17.0	X	198.00073	51.50249	150.27861	12.26747	0.0836492	0.23288471	2.6164277	21	12 1.8	21.0
443684 2015 KF_{18}	15.7	X	27.98473	138.63644	129.10853	16.96891	0.1683281	0.18064734	3.0991910	21	8 7.6	19.2
443685 2015 KQ_{19}	17.7	X	233.73640	173.01024	76.62700	3.32901	0.1334802	0.26834801	2.3805125	21	—	—
443686 2015 KK_{22}	16.7	X	152.53690	80.69626	195.68857	12.73001	0.1486186	0.23967362	2.5667835	21	—	—
443687 2015 KE_{36}	17.7	X	225.04759	210.42164	83.08955	4.08925	0.1687495	0.26892651	2.3770974	21	1 12.9	21.5
443688 2015 KN_{38}	17.3	X	143.21127	190.64058	130.01587	5.78967	0.1133789	0.25375459	2.4709281	21	—	—
443689 2015 KM_{39}	17.6	X	164.69913	56.62792	257.85479	5.53853	0.0461814	0.26471946	2.4022165	21	—	—
443690 2015 KB_{41}	17.1	X	284.96883	25.22417	77.94907	6.10064	0.0917878	0.22953154	2.6418478	21	11 13.7	20.2
443691 2015 KL_{41}	18.1	X	22.49281	110.96017	92.76091	3.56430	0.0998030	0.31790949	2.1261818	21	4 8.6	19.7
443692 2015 KD_{47}	15.9	X	163.48178	56.52389	72.53458	19.77416	0.0771356	0.18618619	3.0374170	21	7 21.5	20.7
443693 2015 KF_{64}	16.5	X	87.94531	55.77578	141.38608	5.93696	0.1176439	0.18861111	3.0113266	21	7 24.8	20.9
443694 2015 KA_{101}	17.5	X	226.70821	224.32347	100.07724	6.45480	0.1929530	0.28942360	2.2634978	21	2 20.1	21.1
443695 2015 KJ_{103}	16.1	X	75.23010	54.62513	132.04688	7.80112	0.0914203	0.17232576	3.1981777	21	6 21.6	20.6
443696 2015 KD_{107}	16.7	X	62.51046	209.50380	101.46548	7.71429	0.0296936	0.21599475	2.7511055	21	11 8.9	20.5
443697 2015 KL_{108}	16.8	X	168.25184	72.34288	136.65200	5.77471	0.0990502	0.22223618	2.6993521	21	11 6.4	20.9
443698 2015 KS_{108}	16.4	X	62.86926	270.62899	99.71081	9.81103	0.0600025	0.24133238	2.5550083	21	—	—
443699 2015 KU_{109}	16.8	X	120.51086	82.62044	223.13834	12.59292	0.1916710	0.23275561	2.6173951	21	—	—
443700 2015 KB_{110}	17.1	X	23.28458	328.07156	123.81525	6.40725	0.0687401	0.26345546	2.4098938	21	—	—
443701 2015 KE_{110}	17.1	X	117.61139	159.21509	148.42368	5.45685	0.1603942	0.23325158	2.6136834	21	—	—
443702 2015 KA_{111}	17.1	X	86.87940	235.38905	93.32899	14.24901	0.2761207	0.22255602	2.6967653	21	—	—
443703 2015 KQ_{111}	17.3	X	259.02797	108.90192	143.16590	6.84288	0.0711580	0.27827300	2.3235678	21	—	—
443704 2015 KU_{111}	16.5	X	4.29224	152.57691	136.50715	8.08026	0.1352010	0.17628048	3.1501645	21	7 20.9	20.2
443705 2015 KM_{112}	16.7	X	146.80929	20.94261	208.63541	12.51171	0.1354364	0.22015070	2.7163726	21	11 8.7	21.0
443706 2015 KD_{113}	16.7	X	49.40003	113.49818	96.26905	15.41014	0.2951976	0.17452283	3.1712797	21	7 16.3	20.5
443707 2015 KU_{113}	16.4	X	322.50639	254.56939	147.27126	8.15315	0.0283537	0.21237230	2.7823012	21	10 22.7	20.2
443708 2015 KY_{122}	15.3	X	340.47760	197.32734	112.58358	17.08946	0.2587266	0.17580625	3.1558269	21	6 26.1	18.4
443709 2015 KC_{132}	18.5	X	311.69615	244.18675	34.72946	4.23686	0.1778123	0.30401531	2.1904789	21	3 19.3	20.9
443710 2015 KM_{133}	16.0	X	73.33958	235.41533	124.19386	15.21816	0.1238374	0.23748956	2.5824962	21	—	—
443711 2015 KA_{135}	17.7	X	225.53272	353.99971	272.73879	3.41817	0.1049711	0.27322324	2.3521100	21	—	—
443712 2015 KZ_{136}	17.8	X	336.55377	238.04463	19.15539	0.65227	0.1063481	0.31909035	2.1209329	21	4 3.6	19.8
443713 2015 KO_{142}	16.4	X	70.96181	275.99991	242.64721	21.23373	0.4447958	0.17772299	3.1330956	21	6 28.9	21.2
443714 2015 KR_{144}	17.4	X	295.63630	11.65601	227.12737	5.56873	0.1330780	0.29258254	2.2471761	21	1 9.7	20.5
443715 2015 KX_{146}	17.3	X	223.45336	74.97295	184.84934	11.54461	0.1457333	0.26326772	2.4110394	21	—	—
443716 2015 KC_{148}	17.6	X	215.79137	226.30770	60.50238	6.28879	0.2180717	0.26280229	2.4138852	21	—	—
443717 2015 KA_{157}	17.7	X	275.53208	295.02381	152.59405	23.29278	0.0584717	0.37454593	1.9060429	21	11 17.2	20.0
443718 2015 KB_{160}	17.6	X	340.56109	92.47643	159.28710	6.32956	0.0985227	0.31494171	2.1395179	21	4 6.2	19.5
443719 2015 LC_{1}	15.7	X	201.60278	305.61440	137.67210	16.44580	0.0783777	0.18595802	3.0399009	21	7 3.9	20.5
443720 2015 LF_{1}	16.3	X	12.22359	131.77654	139.46773	16.62836	0.1602402	0.17816248	3.1279410	21	7 12.4	20.0
443721 2015 LL_{2}	17.4	X	231.16876	126.26425	128.79182	12.42096	0.1582686	0.26888046	2.3773688	21	—	—
443722 2015 LM_{9}	17.8	X	189.06547	215.75995	81.00887	2.51410	0.1747251	0.26378425	2.4078909	21	—	—
443723 2015 LT_{9}	16.0	X	177.23923	356.94883	255.65746	14.30348	0.2299935	0.24295069	2.5436496	21	12 30.0	20.4
443724 2015 LH_{12}	17.4	X	118.42153	170.65618	148.78024	4.25592	0.1830754	0.23589443	2.5941252	21	—	—
443725 2015 LK_{13}	17.0	X	246.67717	154.34720	129.82849	12.09148	0.2395108	0.28093665	2.3088575	21	1 16.2	20.8
443726 2015 LS_{15}	15.9	X	45.57335	144.53376	98.76523	13.24703	0.0875790	0.17786400	3.1314394	21	7 23.9	20.1
443727 2015 LT_{15}	15.5	X	128.34206	47.87774	98.36403	13.75443	0.0143308	0.17124972	3.2115607	21	6 26.1	19.9
443728 2015 LK_{19}	17.4	X	98.24634	144.67083	150.60938	3.86556	0.1802091	0.21853322	2.7297596	21	12 14.1	21.7
443729 2015 LF_{20}	16.5	X	350.41622	272.59656	215.91426	14.47920	0.0577693	0.24400145	2.5363418	21	—	—
443730 2015 LL_{20}	16.8	X	97.10224	180.95550	216.42514	11.52019	0.0784116	0.24752857	2.5121901	21	—	—
443731 2015 LX_{21}	16.6	X	99.74526	169.37784	100.45757	10.20576	0.2729977	0.21156112	2.7894086	21	11 23.1	21.4
443732 2015 LD_{22}	15.6	X	76.02027	334.07503	231.71010	16.76678	0.1674747	0.18006572	3.1058610	21	7 22.9	20.3
443733 2015 LE_{22}	16.8	X	157.93643	187.90076	131.50391	9.81594	0.2279720	0.25259722	2.4784700	21	—	—
443734 2015 LH_{22}	17.8	X	263.22585	122.19922	130.47638	0.78975	0.1629933	0.27997823	2.3141235	21	—	—
443735 2015 LC_{23}	15.6	X	1.46043	232.60311	76.95175	29.45598	0.3201732	0.17603472	3.1530958	21	9 11.9	19.1
443736 2015 LK_{23}	15.6	X	103.99101	292.79588	241.19446	10.55537	0.1467033	0.18127949	3.0919818	21	7 15.8	20.3
443737 2015 LT_{29}	16.1	X	38.04566	299.69981	100.74129	14.64792	0.2191590	0.21912397	2.7248512	21	—	—
443738 2015 LP_{30}	16.4	X	357.37530	224.39858	129.63249	4.31243	0.1482352	0.18393531	3.0621466	21	10 9.5	19.9
443739 2015 LP_{31}	17.4	X	149.74265	115.56983	279.12493	5.72649	0.1114489	0.27224970	2.3577140	21	2 26.9	20.6
443740 2015 LF_{32}	16.7	X	63.14296	46.40825	299.41185	5.60238	0.0398461	0.21525992	2.7573629	21	12 22.1	20.4
443741 2015 LZ_{32}	16.6	X	83.92400	182.40875	74.73550	5.58624	0.2120254	0.19133242	2.9827052	21	10 18.1	21.2
443742 2015 LX_{33}	15.4	X	49.18694	155.15770	113.00708	16.89057	0.0524022	0.17252489	3.1957163	21	8 28.4	19.9
443743 2015 LM_{34}	15.7	X	183.20299	80.89326	105.06192	12.68500	0.0602618	0.20070126	2.8891449	21	10 27.6	20.2
443744 2015 LX_{34}	15.8	X	10.88172	236.46381	98.48669	11.72827	0.1431528	0.18143381	3.0902283	21	10 11.4	19.7
443745 2015 LB_{35}	16.4	X	351.34214	17.66844	103.97239	12.50030	0.0569260	0.24341612	2.5404062	21	—	—
443746 2015 LE_{35}	16.6	X	55.06869	188.08801	111.01070	14.84003	0.1160528	0.18988414	2.9978524	21	10 28.5	21.0
443747 2015 LF_{38}	16.0	X	130.36290	197.65877	115.50268	13.21952	0.1189422	0.24123998	2.5556607	21	—	—
443748 2015 LO_{38}	15.7	X	342.78685	213.66540	95.55863	19.29213	0.1435736	0.17314725	3.1880538	21	7 9.3	19.4
443749 2015 LM_{39}	17.4	X	251.03402	1.55428	310.37552	9.95183	0.2691719	0.28333605	2.2958041	21	2 18.7	21.3
443750 2015 MG	16.2	X	338.34561	159.81322	156.78477	5.95130	0.2439328	0.17667905	3.1454251	21	7 1.5	19.4
443751 2015 MU_{6}	16.2	X	20.68404	61.73770	243.18429	8.43228	0.0603048	0.17635570	3.1492687	21	8 29.2	20.5
443752 2015 ML_{7}	16.8	X	62.74994	109.92313	260.69001	5.13303	0.0375185	0.22459297	2.6804350	21	—	—
443753 2015 MW_{7}	16.2	X	267.26671	151.58810	268.74771	8.28895	0.0562802	0.17376891	3.1804458	21	8 19.2	20.8
443754 2015 MK_{8}	15.6	X	17.14907	44.86538	273.06724	16.01523	0.0801014	0.17839337	3.1252415	21	9 6.8	20.0
443755 2015 MV_{8}	17.2	X	80.68412	117.38163	252.00117	8.28672	0.0859417	0.22785451	2.6547948	21	—	—
443756 2015 MB_{9}	15.4	X	348.49085	53.79925	286.94181	22.93321	0.0994955	0.17284299	3.1917941	21	8 20.8	19.8
443757 2015 MF_{9}	15.8	X	45.52140	26.92955	282.48511	13.76302	0.0420425	0.18778133	3.0201913	21	10 3.8	20.2
443758 2015 MB_{11}	16.8	X	100.76562	353.21297	4.36346	6.04303	0.0932959	0.23761133	2.5816139	21	—	—
443759 2015 MU_{23}	16.7	X	0.63983	47.51830	245.23993	3.17470	0.1881015	0.17996249	3.1070487	21	7 19.9	19.9
443760 2015 MC_{24}	17.5	X	212.85472	248.92108	50.89862	7.01920	0.1710030	0.27745983	2.3281054	21	1 9.1	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443761 2015 MV_{25}	16.6	X	93.98961	219.52193	344.00664	3.52319	0.0790196	0.19092679	2.9869283	21	8 5.3	20.7
443762 2015 MR_{26}	16.8	X	204.25846	175.50813	332.12840	3.43810	0.0420599	0.21498632	2.7597019	21	9 29.7	20.7
443763 2015 ME_{31}	16.7	X	234.13778	51.71052	154.36609	6.39787	0.0640176	0.25525304	2.4612484	21	—	—
443764 2015 MG_{44}	16.7	X	196.87825	48.03686	185.29664	13.02576	0.1220010	0.24140267	2.5545123	21	—	—
443765 2015 MU_{52}	15.7	X	15.32338	358.34393	288.70699	22.58734	0.1026640	0.17127807	3.2112063	21	7 30.7	19.9
443766 2015 MC_{55}	16.7	X	104.68238	203.29220	123.83231	4.82665	0.1714993	0.23390772	2.6087933	21	—	—
443767 2015 MG_{55}	16.5	X	359.67543	220.95433	176.29910	15.07653	0.0961410	0.22621679	2.6675925	21	12 13.6	20.0
443768 2015 MB_{56}	15.5	X	112.35234	294.03877	273.63569	12.80043	0.1254558	0.18327574	3.0694888	21	8 29.5	20.4
443769 2015 MQ_{56}	16.7	X	233.60514	261.71673	292.38633	10.43070	0.1351462	0.23336513	2.6128355	21	12 24.9	20.2
443770 2015 MW_{56}	17.8	X	290.74910	163.48014	96.15286	2.39798	0.1703196	0.28671428	2.2777348	21	1 29.7	20.9
443771 2015 ME_{57}	15.7	X	52.29235	150.88281	114.31985	18.69810	0.0980593	0.17684879	3.1434120	21	9 5.8	20.2
443772 2015 MU_{57}	17.0	X	113.62018	243.80463	116.91576	11.15857	0.1986868	0.23675092	2.5878649	21	—	—
443773 2015 MB_{59}	15.2	X	31.39281	190.32049	108.15377	21.02200	0.1391255	0.17794445	3.1304955	21	9 29.0	19.6
443774 2015 MK_{65}	16.4	X	36.82838	19.20628	289.33093	9.12592	0.1665915	0.18340987	3.0679922	21	10 10.2	20.5
443775 2015 MW_{65}	15.8	X	38.84066	80.21181	236.87058	7.89341	0.1204875	0.18945981	3.0023269	21	10 21.6	19.8
443776 2015 MC_{67}	16.2	X	46.55313	203.67401	73.94233	7.20031	0.1943736	0.18947680	3.0021475	21	9 28.4	20.1
443777 2015 MS_{67}	17.1	X	207.97753	147.17143	105.49875	11.75697	0.0849464	0.24458400	2.5323128	21	—	—
443778 2015 MX_{67}	15.0	X	261.75366	293.30793	126.51101	19.32360	0.0410055	0.17055473	3.2202793	21	8 18.7	19.6
443779 2015 ML_{68}	16.7	X	39.07815	352.63678	298.59277	3.83735	0.1350832	0.18217722	3.0818157	21	9 19.4	20.7
443780 2015 MO_{68}	17.8	X	197.50356	235.37353	107.75981	7.77012	0.1432439	0.27342826	2.3509341	21	2 18.4	21.4
443781 2015 MW_{71}	16.2	X	33.04988	166.52480	133.13160	22.00357	0.0304157	0.18126649	3.0921297	21	9 14.6	20.7
443782 2015 MN_{73}	16.8	X	107.41505	118.85792	149.32560	4.24532	0.0641154	0.20368068	2.8609009	21	11 10.5	21.0
443783 2015 MB_{74}	14.9	X	257.78547	135.09111	283.35585	15.70849	0.0539719	0.17101143	3.2145433	21	8 4.4	19.6
443784 2015 ML_{74}	16.2	X	2.41620	85.84483	267.53228	8.78182	0.1636636	0.18520817	3.0481006	21	10 12.9	19.9
443785 2015 MH_{78}	15.1	X	152.16870	235.76079	282.46689	23.84995	0.0297281	0.16892511	3.2409568	21	8 2.9	20.1
443786 2015 ME_{89}	16.1	X	323.13340	201.08703	157.23451	10.27869	0.0707785	0.17124584	3.2116092	21	8 16.8	20.2
443787 2015 MD_{91}	15.1	X	139.60946	343.86851	271.96979	13.23911	0.0515079	0.19183310	2.9775131	21	11 26.1	19.6
443788 2015 MF_{92}	16.4	X	163.03423	137.47093	72.72541	14.54717	0.0855700	0.22468616	2.6796938	21	11 5.2	20.5
443789 2015 MZ_{92}	18.1	X	207.92797	145.64885	133.47813	6.06914	0.2142831	0.26364832	2.4087185	21	—	—
443790 2015 MB_{93}	15.7	X	15.01548	198.15665	105.39925	10.26746	0.1013383	0.18843308	3.0132230	21	8 31.2	19.5
443791 2015 MC_{93}	16.8	X	16.53611	141.57300	164.95866	8.88803	0.0924520	0.19048976	2.9914951	21	9 2.1	20.6
443792 2015 ML_{93}	17.9	X	193.46189	152.22388	148.79866	4.64229	0.2183271	0.26245584	2.4160090	21	—	—
443793 2015 MO_{93}	15.4	X	5.98630	204.49958	99.05302	17.79963	0.2431072	0.17803623	3.1294196	21	8 26.4	18.8
443794 2015 MS_{93}	16.1	X	299.47887	223.12044	235.81824	21.11574	0.0513568	0.22686328	2.6625222	21	12 1.7	19.5
443795 1917 $T\text{–}3$	17.0	X	2.22416	149.06677	273.66945	6.94912	0.3188233	0.20442353	2.8539660	21	—	—
443796 1960 SW	17.1	X	143.67069	116.32130	267.17649	1.07365	0.1998069	0.23421502	2.6065109	21	2 23.6	21.1
443797 1994 SQ_{11}	17.0	X	106.77497	9.64958	19.60643	9.93955	0.1259611	0.23343738	2.6122964	21	1 10.9	20.4
443798 1995 CO_{2}	17.1	X	311.99045	117.77381	305.47215	9.08392	0.2091624	0.17550007	3.1594963	21	10 4.8	20.8
443799 1995 UB_{19}	16.8	X	97.80591	194.86786	141.06513	2.98541	0.1164158	0.19868087	2.9086983	21	—	—
443800 1995 VL_{5}	18.2	X	242.74036	276.14303	104.54178	3.74811	0.1715376	0.29350979	2.2424408	21	5 18.3	21.4
443801 1996 LG_{3}	16.9	X	319.72908	326.87807	214.02977	12.90160	0.1938119	0.22672849	2.6635774	21	—	—
443802 1997 RH_{13}	18.3	X	181.34713	242.12075	174.35173	5.06042	0.3395149	0.27362687	2.3497963	21	5 11.1	22.7
443803 1997 SE_{6}	17.8	X	224.47226	2.54906	1.10533	8.06645	0.1269994	0.27552289	2.3390038	21	4 8.3	21.2
443804 1997 SE_{23}	17.3	X	2.61895	214.82746	18.08343	11.15076	0.0676431	0.27377949	2.3489230	21	4 21.4	19.8
443805 1997 WW	16.5	X	336.03030	317.10718	48.69466	13.51967	0.3364499	0.16090458	3.3477815	21	9 5.1	19.6
443806 1998 FL_{3}	22.0	X	76.30319	121.32242	180.11313	26.38698	0.2477701	0.69700646	1.2598287	21	—	—
443807 1998 FG_{48}	16.3	X	23.72246	182.66923	352.06669	13.02588	0.1616801	0.25600675	2.4564152	21	3 6.2	18.5
443808 1998 QP_{36}	17.2	X	160.31197	75.27669	281.71703	3.27913	0.3717067	0.23546531	2.5972759	21	2 18.1	21.9
443809 1998 TP_{38}	16.9	X	130.54878	182.13482	208.71655	4.83584	0.2883477	0.23354253	2.6115122	21	2 28.2	21.0
443810 1998 WF_{40}	17.3	X	81.51878	153.83601	235.15060	13.37426	0.2431363	0.22575078	2.6712623	21	—	—
443811 1998 XJ_{6}	17.6	X	123.66289	153.12719	224.60948	4.61846	0.2777141	0.22993013	2.6387938	21	2 4.8	21.6
443812 1999 RG_{31}	16.3	X	3.54039	34.01132	348.67120	27.50900	0.3470775	0.18185883	3.0854117	21	12 24.5	20.1
443813 1999 TQ_{68}	16.5	X	350.45534	177.95607	217.00823	10.87274	0.0805013	0.18135165	3.0911616	21	11 15.1	20.3
443814 1999 TW_{81}	17.8	X	143.63340	156.32175	186.10411	6.07524	0.0484005	0.24124122	2.5556519	21	—	—
443815 1999 TH_{84}	18.4	X	303.87125	301.24394	28.63805	6.73779	0.2440350	0.30697418	2.1763805	21	5 7.5	20.7
443816 1999 TR_{107}	14.8	X	251.29817	155.17907	237.06131	8.55085	0.2923485	0.12508856	3.9596578	21	6 4.3	21.2
443817 1999 TP_{211}	16.6	X	133.20149	109.32770	230.88022	23.33624	0.2853695	0.24065380	2.5598091	21	—	—
443818 1999 TS_{299}	17.4	X	347.96643	6.89171	32.02204	1.01171	0.1820887	0.17957159	3.1115561	21	11 19.8	20.8
443819 1999 TT_{322}	17.7	X	359.74238	8.29151	53.45101	17.71334	0.2152715	0.36598334	1.9356575	21	—	—
443820 1999 UB_{18}	16.4	X	22.64132	352.49102	30.04533	11.48637	0.1214778	0.18469445	3.0537500	21	12 19.7	20.5
443821 1999 UO_{34}	16.3	X	2.13560	166.24768	213.90839	12.89381	0.1219133	0.18038704	3.1021717	21	11 16.9	20.1
443822 1999 VP_{101}	15.8	X	27.88944	321.54551	52.19802	13.48123	0.1692753	0.18182655	3.0857768	21	12 22.0	19.9
443823 1999 VN_{209}	17.7	X	115.37159	335.01484	84.84657	3.80879	0.2124144	0.24300746	2.5432535	21	3 13.9	21.2
443824 1999 WF_{14}	16.8	X	359.25843	269.33423	138.24009	1.09523	0.2237371	0.18157540	3.0886216	21	12 27.7	20.1
443825 1999 WX_{18}	18.0	X	116.63535	359.33762	62.50104	4.34560	0.2352834	0.24373397	2.5381971	21	3 21.0	21.5
443826 1999 XM_{187}	16.3	X	25.81274	156.88282	308.32429	12.66116	0.1966391	0.23253760	2.6190307	21	—	—
443827 2000 AW_{167}	16.4	X	105.67487	279.09760	151.14603	18.13393	0.2513408	0.23934869	2.5691059	21	3 22.9	20.0
443828 2000 CC_{79}	17.6	X	295.27172	248.48052	274.35664	0.89554	0.1357370	0.22380093	2.6867554	21	—	—
443829 2000 CZ_{123}	15.9	X	56.08011	337.57413	127.09926	22.60827	0.0388778	0.23408810	2.6074531	21	1 24.4	19.2
443830 2000 GP_{131}	17.8	X	275.09959	275.14453	32.91301	4.16410	0.2100573	0.27738830	2.3285056	21	3 14.9	21.3
443831 2000 HV_{80}	17.7	X	246.79029	151.88822	141.51754	7.00154	0.4134483	0.26926506	2.3751045	21	1 23.7	22.5
443832 2000 OP_{60}	17.9	X	225.32641	184.42149	129.85318	4.80441	0.3160566	0.26497827	2.4006520	21	2 6.6	22.2
443833 2000 QP_{110}	17.6	X	194.22442	24.18724	332.96940	5.09152	0.2344794	0.26333461	2.4106311	21	3 5.9	21.8
443834 2000 SO_{174}	17.1	X	198.43399	38.46961	295.50398	7.70157	0.2207406	0.26007503	2.4307312	21	2 8.6	21.2
443835 2000 SR_{229}	17.3	X	160.37406	24.26655	22.24138	9.81059	0.2159966	0.26078797	2.4262992	21	4 8.1	21.1
443836 2000 SM_{232}	17.0	X	233.22608	97.32134	202.00999	22.41050	0.2502601	0.26310701	2.4120211	21	1 21.5	21.7
443837 2000 TJ_{1}	19.5	X	336.72995	52.47687	190.42162	39.53924	0.0808255	0.78837205	1.1605092	21	—	—
443838 2000 UL_{29}	18.0	X	5.00332	228.26128	223.93379	18.77868	0.1231256	0.38712322	1.8645322	21	—	—
443839 2000 WW_{28}	17.3	X	117.86340	27.73064	62.85703	4.55806	0.2371306	0.25749585	2.4469357	21	4 26.3	20.7
443840 2000 WT_{110}	16.9	X	36.95040	7.86960	48.26163	13.14923	0.2851298	0.19559530	2.9392088	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443841 2000 WG_{170}	17.1	X	160.95833	344.62419	21.21048	8.18507	0.2116012	0.25617908	2.4553135	21	2 20.4	21.0
443842 2001 FA_{24}	16.8	X	195.96430	236.39087	7.59285	12.48667	0.4245007	0.22541413	2.6739214	21	12 20.9	22.1
443843 2001 FO_{185}	7.3	X	37.16388	335.79198	205.81170	10.64704	0.1161698	0.00311310	46.4523064	21	5 9.1	23.6
443844 2001 HU_{18}	18.6	X	327.32712	60.66549	188.57778	7.64217	0.3107049	0.29029239	2.2589795	21	2 4.6	21.7
443845 2001 OK_{36}	17.9	X	262.82254	155.89336	152.62935	7.20459	0.1462315	0.28247783	2.3004518	21	3 7.7	21.0
443846 2001 OR_{54}	16.5	X	171.26495	355.47891	335.17981	5.08077	0.1716449	0.22348442	2.6892915	21	1 17.5	20.7
443847 2001 OJ_{113}	17.9	X	243.04992	217.09739	139.40011	7.16313	0.2203281	0.28285346	2.2984147	21	4 15.9	21.7
443848 2001 PY_{29}	16.6	X	116.77117	77.36604	248.90452	6.14297	0.3218799	0.21464241	2.7626489	21	—	—
443849 2001 QW_{170}	18.2	X	292.58083	5.58604	312.32436	1.00732	0.2436394	0.28706415	2.2758837	21	4 8.3	21.1
443850 2001 QC_{203}	16.9	X	202.29003	262.91406	27.71786	4.45198	0.1533089	0.22311734	2.6922404	21	—	—
443851 2001 QE_{261}	16.9	X	237.76275	220.17104	167.84557	23.75463	0.2650162	0.28369882	2.2938466	21	5 20.1	21.2
443852 2001 RB_{39}	17.7	X	257.94208	82.08208	262.47866	1.70942	0.1657492	0.28367016	2.2940011	21	4 15.3	21.1
443853 2001 RE_{41}	17.7	X	252.91548	107.69633	242.38385	5.59114	0.1705683	0.28396613	2.2924068	21	4 16.2	21.0
443854 2001 RM_{51}	18.1	X	234.35517	55.05181	353.13922	6.63309	0.4005864	0.28565230	2.2833767	21	5 29.7	22.5
443855 2001 RT_{99}	17.7	X	281.95740	172.25332	141.95764	3.04551	0.2309160	0.28549558	2.2842123	21	3 26.2	21.1
443856 2001 RC_{107}	16.1	X	157.37798	181.27016	169.65907	26.52273	0.1870787	0.22007169	2.7170227	21	1 27.9	20.7
443857 2001 SB_{4}	17.8	X	257.70123	66.34139	276.70098	3.30327	0.1859128	0.28368747	2.2939077	21	4 10.2	21.2
443858 2001 SY_{30}	18.1	X	233.30309	209.74531	149.24226	3.02756	0.1741817	0.28072671	2.3100084	21	4 11.1	21.6
443859 2001 SF_{77}	16.7	X	89.99900	37.11180	332.20003	7.24426	0.2398376	0.21176902	2.7875827	21	—	—
443860 2001 SP_{89}	18.2	X	210.98128	183.56256	209.98625	3.85096	0.2227131	0.28187695	2.3037199	21	5 2.9	22.0
443861 2001 SY_{195}	16.4	X	117.61819	326.02620	355.64486	13.75068	0.0726658	0.21143407	2.7905260	21	—	—
443862 2001 SX_{207}	17.9	X	235.19053	10.95399	6.02248	7.09030	0.1255698	0.28352831	2.2947661	21	5 6.3	21.2
443863 2001 SZ_{246}	18.3	X	239.13248	227.20246	147.53444	2.39482	0.2389591	0.28239277	2.3009137	21	5 2.6	22.0
443864 2001 SL_{267}	16.6	X	20.43709	205.42224	193.63007	14.81641	0.1341419	0.20393553	2.8585171	21	—	—
443865 2001 ST_{278}	16.3	X	92.68686	193.03706	216.77916	14.96085	0.2780268	0.21411266	2.7672038	21	2 7.2	20.1
443866 2001 SB_{293}	18.8	X	229.80734	11.34921	2.60081	5.46986	0.2478438	0.28171011	2.3046294	21	4 21.1	22.7
443867 2001 SM_{304}	16.6	X	31.77440	82.96736	7.89045	12.92690	0.2190609	0.21183934	2.7869658	21	—	—
443868 2001 SX_{339}	18.3	X	245.50098	116.28774	243.31866	4.98185	0.2588827	0.28283083	2.2985373	21	4 15.2	22.3
443869 2001 TO_{24}	17.7	X	264.97624	25.46365	312.71598	4.85015	0.1933116	0.28257440	2.2999276	21	4 9.8	21.1
443870 2001 TB_{25}	15.8	X	160.27691	288.96244	5.89065	12.84126	0.2033531	0.21323985	2.7747497	21	—	—
443871 2001 TU_{50}	17.0	X	82.44916	200.91349	193.85865	17.42790	0.2273511	0.21264786	2.7798970	21	—	—
443872 2001 TK_{95}	16.5	X	36.71080	70.46001	7.86698	7.42110	0.2091654	0.20987431	2.8043348	21	—	—
443873 2001 TW_{99}	17.3	X	262.69084	352.01125	7.26101	10.17239	0.1025575	0.28339624	2.2954790	21	5 15.9	20.6
443874 2001 TV_{141}	18.0	X	239.20861	286.24768	82.66481	4.72884	0.2431157	0.28251412	2.3002548	21	4 25.8	21.9
443875 2001 TZ_{146}	18.1	X	243.10816	175.36093	173.48262	10.47065	0.2505109	0.28099531	2.3085361	21	4 3.1	22.0
443876 2001 TF_{161}	16.8	X	78.69750	45.06327	354.41179	4.73151	0.1247288	0.21379579	2.7699374	21	—	—
443877 2001 TZ_{184}	18.0	X	211.28814	16.92710	356.23506	4.06943	0.1546567	0.27824757	2.3237093	21	4 7.3	21.5
443878 2001 TB_{213}	18.1	X	235.10334	158.08558	230.01801	8.21014	0.2317273	0.28295231	2.2978794	21	5 15.9	21.9
443879 2001 TL_{257}	17.5	X	210.89193	350.18143	59.76027	6.08398	0.1983805	0.28209491	2.3025331	21	5 24.2	21.2
443880 2001 UZ_{16}	19.4	X	173.51255	28.56997	323.13874	12.67715	0.4262765	0.42232691	1.7594228	21	2 8.1	21.9
443881 2001 UX_{43}	17.8	X	230.69010	301.65864	82.30095	2.66955	0.2341473	0.28171979	2.3045766	21	5 7.2	21.4
443882 2001 UO_{87}	17.7	X	306.56705	49.30030	231.97573	5.52224	0.1569589	0.28132963	2.3067068	21	3 18.2	20.5
443883 2001 UB_{101}	17.6	X	108.57019	329.87577	22.93517	9.56693	0.2994561	0.21290846	2.7776281	21	—	—
443884 2001 UZ_{110}	17.4	X	265.22901	93.23597	224.38583	8.88056	0.1619231	0.27906378	2.3191761	21	3 17.0	20.8
443885 2001 UX_{135}	17.5	X	214.54468	349.11390	57.41065	8.62576	0.2837164	0.28063524	2.3105103	21	5 20.2	21.5
443886 2001 UF_{229}	18.2	X	209.28559	261.69234	146.39015	4.99940	0.2227770	0.28172114	2.3045692	21	5 21.2	22.0
443887 2001 VU_{5}	17.8	X	218.53915	322.69517	56.49840	7.02597	0.2616854	0.27936937	2.3174846	21	4 21.5	21.8
443888 2001 VX_{38}	17.9	X	166.64721	191.30251	245.78444	4.62362	0.1851792	0.27615562	2.3354297	21	5 19.6	21.5
443889 2001 VP_{109}	18.9	X	205.44610	94.78920	301.63818	1.87189	0.2770408	0.27844412	2.3226156	21	4 30.5	23.0
443890 2001 VO_{125}	18.2	X	164.50190	35.38927	51.62207	3.34583	0.1883739	0.27720141	2.3295521	21	5 30.6	21.8
443891 2001 WQ_{55}	17.7	X	209.66469	353.51774	50.13751	10.54966	0.1149968	0.27959796	2.3162213	21	5 17.0	20.9
443892 2001 XT_{4}	17.5	X	229.60633	311.27820	49.65646	6.22330	0.4186348	0.27778860	2.3262681	21	4 3.4	22.1
443893 2001 XT_{20}	17.2	X	174.60962	1.86137	56.87602	9.46854	0.2577594	0.27394522	2.3479755	21	5 6.8	21.1
443894 2001 XU_{104}	18.1	X	218.05900	357.76239	357.03411	0.86648	0.1934919	0.27350165	2.3505135	21	3 21.9	21.9
443895 2001 XP_{170}	15.0	X	183.39953	124.99973	307.55160	7.43081	0.2812766	0.12561570	3.9485723	21	6 2.1	21.8
443896 2001 XH_{220}	17.8	X	231.55942	310.54074	44.07601	4.44125	0.2237564	0.27731280	2.3289282	21	4 2.3	21.6
443897 2001 YO_{36}	18.1	X	221.33932	350.16422	32.19716	3.18689	0.2480317	0.27804111	2.3248595	21	4 26.3	21.8
443898 2001 YO_{92}	17.8	X	240.63396	308.45736	63.37673	2.40842	0.2554639	0.28020753	2.3128609	21	4 28.8	21.5
443899 2002 AE_{19}	16.2	X	30.30099	7.00177	59.48085	17.83539	0.2120754	0.20221489	2.8747095	21	—	—
443900 2002 CU_{13}	17.5	X	38.45063	341.10576	154.20782	5.37379	0.3152388	0.25831181	2.4417801	21	2 1.2	18.3
443901 2002 CD_{70}	15.8	X	141.88301	245.60231	327.00850	14.42562	0.1480959	0.18201579	3.0836377	21	10 4.1	21.0
443902 2002 CJ_{235}	18.0	X	25.22230	191.37190	316.20233	6.07611	0.1343046	0.25908130	2.4369428	21	1 26.9	20.1
443903 2002 CJ_{309}	15.6	X	138.59731	260.87706	332.18747	14.12989	0.2248228	0.18320347	3.0702961	21	10 27.9	21.1
443904 2002 DA_{14}	17.7	X	28.20970	86.79594	88.43727	2.59675	0.1084116	0.26103044	2.4247964	21	3 16.1	20.1
443905 2002 EM_{24}	18.3	X	134.07937	283.76751	167.98791	1.36164	0.1536996	0.26533246	2.3985151	21	5 4.6	21.8
443906 2002 EY_{40}	15.1	X	120.83925	242.34994	10.81762	26.31840	0.2496937	0.17620257	3.1510930	21	11 3.4	20.8
443907 2002 EB_{60}	15.8	X	116.26765	61.39819	168.32880	27.13139	0.2571518	0.17608445	3.1525020	21	10 17.5	21.4
443908 2002 GA_{48}	15.8	X	86.53484	271.17834	12.24608	15.83698	0.1774182	0.17591600	3.1545142	21	11 8.4	20.8
443909 2002 GM_{74}	17.2	X	1.25631	334.93618	210.57721	4.43464	0.2014581	0.25526233	2.4611886	21	1 27.4	19.5
443910 2002 GC_{102}	15.5	X	199.09730	4.37644	183.36691	22.82102	0.1186164	0.18035963	3.1024860	21	11 5.8	20.5
443911 2002 GG_{183}	15.7	X	134.28735	22.20973	207.06882	8.34653	0.0408728	0.17528650	3.1620622	21	10 17.2	20.3
443912 2002 NF_{21}	17.3	X	175.55971	26.03316	258.25381	4.52273	0.3043473	0.23233595	2.6205459	21	—	—
443913 2002 PO	17.4	X	155.44844	142.55983	172.63195	4.57183	0.2510566	0.23055109	2.6340535	21	—	—
443914 2002 PW_{72}	17.0	X	130.01756	103.10377	273.57438	11.40534	0.2951396	0.23200867	2.6230098	21	2 8.9	21.2
443915 2002 PG_{112}	16.3	X	150.07715	258.81928	152.49546	27.34814	0.1744462	0.24047104	2.5611058	21	4 7.9	20.7
443916 2002 PO_{157}	17.7	X	4.54252	346.52486	324.29731	7.79361	0.1560321	0.31278333	2.1493492	21	9 4.9	19.0
443917 2002 PE_{179}	17.0	X	116.16612	80.95320	273.99222	11.41694	0.2835831	0.22633542	2.6666603	21	1 2.4	20.6
443918 2002 PZ_{187}	17.3	X	146.50865	47.99490	320.26394	9.71140	0.2175076	0.23514119	2.5996621	21	2 9.8	21.3
443919 2002 QJ_{36}	18.3	X	324.01802	195.44213	107.95288	7.72367	0.2556734	0.30705967	2.1759765	21	5 2.8	20.4
443920 2002 QW_{38}	17.1	X	110.52801	173.28268	168.80760	13.85768	0.2341369	0.22439698	2.6819955	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
443921 2002 QH_{41}	16.9	X	155.18256	359.44239	328.03560	11.95006	0.2732371	0.23190497	2.6237917	21	1 7.8	21.3
443922 2002 QL_{110}	16.8	X	201.07984	325.32336	319.43054	12.45360	0.0953755	0.23330102	2.6133142	21	—	—
443923 2002 RU_{25}	17.5	X	328.07459	306.38315	5.04769	28.90681	0.4832369	0.30696625	2.1764180	21	3 31.5	20.0
443924 2002 RS_{31}	17.2	X	130.26661	157.66447	215.70486	3.20300	0.3021502	0.23014601	2.6371434	21	2 9.2	21.3
443925 2002 RW_{81}	16.8	X	115.29006	47.19092	346.67450	9.79555	0.2414430	0.22976326	2.6400713	21	2 14.7	20.5
443926 2002 RS_{172}	17.1	X	140.45541	72.77681	316.01112	5.35010	0.2193003	0.23413548	2.6071012	21	2 28.2	21.1
443927 2002 SK_{27}	16.6	X	118.99915	294.33424	87.35401	14.32873	0.2699404	0.22840012	2.6505653	21	2 9.2	20.6
443928 2002 SL_{47}	17.1	X	119.85601	185.22340	183.15932	14.64185	0.2095984	0.22791183	2.6543497	21	1 11.2	21.0
443929 2002 SB_{50}	16.6	X	125.59944	353.79319	18.54856	14.54360	0.2646442	0.22883521	2.6472045	21	2 6.7	20.8
443930 2002 SO_{56}	17.9	X	291.24564	323.34858	44.26844	8.51360	0.2085731	0.30471953	2.1871028	21	6 22.1	20.4
443931 2002 TR_{34}	18.3	X	289.13974	94.15866	272.46832	0.75638	0.1962571	0.30426596	2.1892758	21	6 19.9	20.6
443932 2002 TX_{135}	18.0	X	221.27460	97.03627	297.35595	6.10811	0.1765657	0.29649556	2.2273609	21	5 11.8	21.5
443933 2002 TU_{165}	16.9	X	156.10073	15.26871	300.50383	13.30364	0.2574686	0.22930104	2.6436180	21	—	—
443934 2002 TY_{214}	17.1	X	58.34527	252.16667	172.98579	12.93685	0.2620303	0.22261162	2.6963163	21	—	—
443935 2002 TY_{232}	16.2	X	117.42763	96.85288	278.95908	12.08266	0.0783178	0.22723971	2.6595811	21	—	—
443936 2002 TP_{299}	17.3	X	68.40759	16.63972	46.13733	9.40764	0.2443569	0.22367339	2.6877766	21	1 11.9	19.9
443937 2002 TF_{311}	18.0	X	76.65310	298.26574	140.42676	8.11785	0.1938590	0.22739304	2.6583854	21	2 9.2	20.8
443938 2002 TB_{329}	17.5	X	70.30116	11.06390	47.54364	2.74444	0.1987701	0.22559334	2.6725051	21	1 1.8	20.1
443939 2002 UR_{8}	16.5	X	89.35643	296.02428	86.33997	13.85480	0.2727988	0.22258103	2.6965633	21	—	—
443940 2002 UD_{31}	16.9	X	96.32731	164.07669	249.29974	7.84306	0.2801533	0.22644282	2.6658171	21	2 16.4	20.4
443941 2002 UJ_{66}	17.6	X	105.24796	260.81896	182.38429	6.01869	0.3404588	0.23112597	2.6296839	21	4 18.5	21.4
443942 2002 VG_{14}	17.8	X	117.43533	311.23080	47.89031	21.24256	0.1198780	0.38224006	1.8803784	21	—	—
443943 2002 VT_{23}	17.4	X	74.59310	177.54607	244.28979	5.94499	0.2740545	0.22322056	2.6914104	21	1 24.8	20.1
443944 2002 VE_{71}	18.0	X	282.17669	298.40348	66.80987	4.85674	0.2098452	0.30189678	2.2007146	21	6 5.4	20.4
443945 2002 VL_{87}	16.9	X	125.40553	124.80417	248.83560	10.08912	0.3144930	0.22665974	2.6641160	21	2 4.2	21.2
443946 2002 VF_{96}	16.3	X	127.13656	299.68579	66.84737	12.54871	0.0896952	0.22579749	2.6708939	21	1 3.2	20.0
443947 2002 VY_{116}	16.6	X	89.92170	4.36084	17.60424	12.63159	0.1482674	0.22128908	2.7070487	21	—	—
443948 2002 XO_{32}	16.1	X	358.86509	155.04949	277.10105	24.24623	0.1628902	0.21206726	2.7849686	21	—	—
443949 2002 XR_{32}	16.4	X	63.52554	112.00514	310.92002	11.68662	0.1684996	0.22033468	2.7148602	21	—	—
443950 2002 XZ_{39}	18.2	X	173.14675	10.47807	82.29220	3.23868	0.4171667	0.29085336	2.2560739	21	6 18.9	22.6
443951 2003 AX_{15}	17.7	X	133.58392	66.16729	94.49098	6.70751	0.1161331	0.29280499	2.2460378	21	8 3.5	20.9
443952 2003 BJ_{73}	16.7	X	43.78428	145.56726	332.53836	9.10394	0.4088811	0.22188334	2.7022131	21	2 23.1	17.5
443953 2003 DW_{17}	17.1	X	56.26999	104.49519	113.10511	9.96968	0.1936202	0.28472277	2.2883437	21	7 23.9	19.4
443954 2003 EU_{13}	17.3	X	345.22526	320.72357	172.32935	10.05792	0.2271517	0.21042823	2.7994113	21	—	—
443955 2003 EC_{43}	17.5	X	33.04433	97.01003	109.83140	4.89287	0.1359471	0.27663594	2.3327256	21	5 13.1	19.5
443956 2003 GD_{57}	18.0	X	66.10920	62.81017	120.83961	3.09717	0.1328472	0.27822049	2.3238601	21	6 7.1	20.3
443957 2003 HM_{34}	17.7	X	249.62498	150.45468	141.71969	2.62396	0.2151016	0.26216821	2.4177758	21	1 31.5	21.7
443958 2003 HW_{36}	16.5	X	45.28108	113.37143	182.49528	22.94097	0.2422833	0.17549522	3.1595545	21	10 23.6	20.8
443959 2003 HS_{43}	16.8	X	114.62665	111.74327	171.99711	4.40627	0.1663340	0.18737393	3.0245674	21	12 10.0	21.8
443960 2003 JH_{6}	16.9	X	0.78329	21.18906	219.61404	13.82337	0.1749986	0.27267318	2.3552722	21	4 23.6	18.8
443961 2003 KO_{28}	16.4	X	120.62514	79.66764	145.58482	12.76664	0.1466864	0.18037160	3.1023487	21	10 9.8	21.4
443962 2003 QR_{42}	18.2	X	192.48229	252.44413	66.30879	0.22658	0.3541369	0.24885297	2.5032689	21	1 24.6	23.0
443963 2003 RM_{27}	17.7	X	103.34389	83.36898	331.72888	7.69492	0.2347094	0.24400975	2.5362843	21	2 21.6	20.8
443964 2003 SF_{92}	18.2	X	136.75633	45.30916	355.80333	7.68984	0.1818720	0.24653982	2.5189023	21	3 8.1	21.7
443965 2003 SA_{150}	17.2	X	149.37955	212.67364	115.29363	5.01069	0.3185936	0.24215352	2.5492291	21	1 4.1	21.4
443966 2003 SQ_{174}	18.1	X	125.72401	57.91337	351.18690	4.27496	0.2800095	0.24567528	2.5248083	21	3 17.2	21.7
443967 2003 SA_{241}	18.2	X	164.96707	300.59539	8.88904	2.92606	0.2120649	0.24136771	2.5547590	21	—	—
443968 2003 SX_{273}	17.5	X	124.31586	358.17552	32.08062	6.52512	0.2413750	0.24264111	2.5458128	21	2 19.2	21.2
443969 2003 SX_{304}	17.2	X	174.52780	191.84949	212.32606	11.15927	0.1791006	0.25196731	2.4825990	21	4 15.5	21.3
443970 2003 SB_{312}	18.7	X	151.99482	359.01716	27.05786	4.08830	0.2960099	0.24713560	2.5148525	21	3 14.6	23.0
443971 2003 SR_{318}	18.3	X	148.23742	158.42652	190.61938	6.73818	0.1452866	0.24280831	2.5446439	21	1 8.9	22.0
443972 2003 TN_{1}	19.6	X	90.41043	54.65500	13.66695	19.22970	0.1358673	0.57463519	1.4328737	21	—	—
443973 2003 TX_{26}	17.0	X	306.30455	42.28937	219.56945	13.19485	0.0884027	0.25335498	2.4735256	21	3 3.8	20.5
443974 2003 TK_{54}	17.3	X	93.62643	321.39181	127.41696	4.83793	0.0680531	0.24634435	2.5202347	21	2 27.9	20.3
443975 2003 UF_{104}	16.7	X	51.17998	139.13372	293.28510	6.40818	0.1979309	0.23395337	2.6084540	21	—	—
443976 2003 UY_{196}	17.3	X	136.52176	202.40719	207.59399	10.12505	0.1799644	0.24578997	2.5240228	21	3 15.9	21.2
443977 2003 UE_{234}	18.1	X	142.55755	351.24390	37.15970	6.51507	0.2974492	0.24361099	2.5390512	21	3 11.8	22.3
443978 2003 UV_{277}	16.7	X	115.51449	19.96247	36.40165	18.00115	0.1667162	0.24422991	2.5347598	21	3 10.8	20.4
443979 2003 UJ_{278}	17.9	X	104.24962	139.03672	250.17179	2.49353	0.2663197	0.23864436	2.5741584	21	1 25.3	21.1
443980 2003 UP_{355}	17.7	X	155.19490	49.44130	323.27466	1.97947	0.2110554	0.24486554	2.5303714	21	2 21.4	21.7
443981 2003 UF_{379}	18.3	X	157.71484	122.15911	192.45370	16.71314	0.2410922	0.24096074	2.5576347	21	—	—
443982 2003 VF_{4}	16.7	X	77.94778	172.25292	285.02107	5.37479	0.1974049	0.24035597	2.5619232	21	3 4.1	19.6
443983 2003 WP_{19}	16.8	X	21.82122	207.28688	265.84371	13.09974	0.0988995	0.23423179	2.6063866	21	—	—
443984 2003 WT_{35}	17.4	X	157.81493	81.35741	314.49638	3.85355	0.2049214	0.24720272	2.5143972	21	3 21.8	21.4
443985 2003 WD_{54}	17.4	X	113.40149	2.39712	34.17780	9.47663	0.1593541	0.23891438	2.5722185	21	2 4.2	20.9
443986 2003 WA_{74}	17.6	X	152.35273	359.34086	18.70817	6.04518	0.2415251	0.24306009	2.5428863	21	3 2.3	21.7
443987 2003 WP_{77}	17.2	X	126.43929	304.33536	100.18108	11.14840	0.2538696	0.24150115	2.5538178	21	3 15.2	21.2
443988 2003 WU_{115}	16.9	X	84.44598	139.89609	310.96893	3.18534	0.2165022	0.23949595	2.5680527	21	3 10.8	19.7
443989 2003 WD_{120}	17.1	X	86.80325	169.60011	270.13887	7.45686	0.1965755	0.23825956	2.5769292	21	2 21.6	20.2
443990 2003 WQ_{134}	17.0	X	113.41780	194.06628	240.62569	10.16051	0.2185827	0.24256386	2.5463532	21	3 25.6	20.8
443991 2003 WA_{137}	17.0	X	82.10122	165.70321	250.43385	14.40442	0.2357905	0.23553319	2.5967769	21	1 18.4	19.9
443992 2003 WT_{171}	17.5	X	151.30808	184.97542	202.80829	15.83631	0.3446526	0.24512418	2.5285911	21	3 15.9	22.2
443993 2003 XS_{2}	17.4	X	93.05085	289.78160	161.27842	4.48319	0.2824933	0.24067396	2.5596660	21	4 5.9	20.7
443994 2003 XN_{10}	16.3	X	118.32111	84.04392	346.05026	31.61185	0.2493762	0.23883621	2.5727797	21	3 22.3	20.4
443995 2003 XT_{12}	17.4	X	136.55727	72.01904	333.14680	10.41313	0.3508335	0.24275683	2.5450037	21	3 25.4	21.9
443996 2003 YD_{5}	16.7	X	136.29694	158.83496	240.62612	13.17914	0.1642633	0.24221466	2.5488000	21	2 25.0	20.7
443997 2003 YZ_{19}	17.2	X	79.32454	70.57833	358.92452	2.23583	0.2065470	0.23353616	2.6115597	21	2 2.2	19.9
443998 2003 YO_{27}	16.9	X	63.67276	166.81743	254.58730	11.26325	0.1704029	0.23327670	2.6134958	21	—	—
443999 2003 YH_{33}	17.5	X	120.99335	316.52304	109.56647	11.12440	0.2974805	0.24300599	2.5432637	21	4 10.9	21.6
444000 2003 YV_{36}	17.6	X	119.92962	344.70204	62.55570	3.86264	0.2463926	0.23795548	2.5791241	21	3 8.1	21.3