Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404001 2012 BC_{138}	15.8	X	51.66843	333.43416	288.41397	8.06503	0.1683715	0.17498868	3.1656489	20	9 9.7	20.2
404002 2012 BO_{138}	17.1	X	188.00223	34.87910	106.56181	3.01835	0.1461094	0.18251879	3.0779696	20	9 4.1	22.0
404003 2012 BU_{138}	16.8	X	188.73582	17.69536	139.09489	1.64362	0.0947516	0.18846095	3.0129260	20	9 26.1	21.4
404004 2012 BX_{148}	16.3	X	213.71787	322.04873	150.02929	12.49778	0.0396210	0.17939406	3.1136086	20	9 2.2	20.7
404005 2012 BA_{152}	16.2	X	155.58453	57.37304	120.81039	16.55174	0.1982356	0.18200211	3.0837921	20	9 23.6	21.6
404006 2012 BO_{152}	16.2	X	24.84011	271.64442	160.28446	22.14727	0.0618951	0.22511178	2.6763150	20	—	—
404007 2012 CB_{2}	16.6	X	111.82909	258.04178	304.17265	3.70428	0.1200177	0.17082436	3.2168898	20	9 1.2	21.5
404008 2012 CC_{2}	16.4	X	19.85874	359.77760	332.33461	8.25093	0.0937333	0.18559252	3.0438908	20	10 16.2	20.5
404009 2012 CT_{7}	17.0	X	347.07906	146.39244	307.52939	12.17344	0.2142823	0.22319219	2.6916384	20	—	—
404010 2012 CU_{7}	16.3	X	244.13449	147.47555	305.33598	9.60389	0.0788199	0.18608715	3.0384946	20	9 5.7	20.8
404011 2012 CP_{10}	16.6	X	220.91632	165.40104	327.58232	5.15648	0.1481784	0.18932525	3.0037494	20	9 23.5	21.2
404012 2012 CB_{12}	16.9	X	107.03598	328.96344	351.52211	4.04434	0.0639834	0.21134966	2.7912689	20	—	—
404013 2012 CF_{12}	16.3	X	74.65586	194.42925	81.74952	2.63281	0.1450591	0.18185570	3.0854471	20	10 27.5	20.9
404014 2012 CN_{12}	16.6	X	289.63370	73.15623	342.58214	9.17811	0.0957810	0.18836876	3.0139090	20	9 18.8	20.4
404015 2012 CY_{12}	15.8	X	249.24361	92.12632	349.75726	8.50310	0.0240510	0.18035546	3.1025338	20	9 9.4	20.0
404016 2012 CE_{13}	16.3	X	257.21496	90.13356	342.03931	9.71794	0.0828888	0.18164262	3.0878596	20	8 30.1	20.4
404017 2012 CN_{13}	16.9	X	123.21765	35.74925	338.37206	14.44051	0.1874927	0.23944810	2.5683949	20	2 1.9	20.6
404018 2012 CQ_{14}	17.6	X	349.20762	314.14137	139.22157	4.15004	0.2223436	0.22306334	2.6926748	20	—	—
404019 2012 CG_{15}	16.3	X	129.02880	65.86114	140.13276	10.07302	0.0591764	0.17928091	3.1149185	20	9 24.3	21.0
404020 2012 CM_{16}	16.7	X	228.67109	144.14504	332.04573	7.92365	0.1499703	0.18766068	3.0214856	20	9 10.8	21.2
404021 2012 CY_{17}	16.0	X	248.00371	132.31997	318.55683	9.42405	0.0829878	0.18541235	3.0458624	20	9 8.3	20.3
404022 2012 CC_{21}	17.2	X	99.95659	7.73625	311.00621	3.39904	0.0670372	0.21084433	2.7957270	20	—	—
404023 2012 CE_{29}	16.1	X	285.47615	200.52321	331.65327	12.95645	0.1845307	0.22229246	2.6988965	20	—	—
404024 2012 CH_{29}	16.3	X	26.92710	171.48228	281.64120	8.95818	0.0826816	0.23317324	2.6142689	20	—	—
404025 2012 CG_{30}	16.4	X	235.23437	109.50764	357.21111	10.33396	0.0571619	0.18937238	3.0032510	20	9 19.7	20.5
404026 2012 CW_{34}	15.5	X	63.21781	297.28221	322.91261	9.58155	0.0927497	0.17636962	3.1491030	20	9 12.8	20.0
404027 2012 CU_{37}	16.8	X	317.35881	312.51953	130.35642	4.97624	0.0815622	0.20828803	2.8185550	20	12 12.9	20.2
404028 2012 CP_{41}	17.0	X	70.19783	73.85750	322.88411	14.26863	0.1170721	0.23066362	2.6331968	20	—	—
404029 2012 CU_{42}	15.9	X	87.63260	110.97319	125.29855	10.45922	0.0570533	0.17503432	3.1650986	20	9 13.8	20.5
404030 2012 CW_{42}	15.8	X	177.23284	169.94411	350.94220	9.06820	0.0613672	0.18162500	3.0880593	20	9 18.6	20.3
404031 2012 CG_{43}	17.4	X	337.39911	334.59943	118.18244	11.50964	0.0652596	0.21925419	2.7237722	20	—	—
404032 2012 CR_{44}	15.9	X	187.25787	190.93586	342.15199	7.41754	0.0443391	0.18703164	3.0282565	20	10 14.2	20.4
404033 2012 CF_{45}	15.7	X	93.94553	101.20673	155.09776	22.11064	0.0363559	0.18053579	3.1004675	20	10 15.9	20.4
404034 2012 CT_{45}	16.7	X	58.70037	79.36390	329.06530	12.22762	0.1654475	0.22975790	2.6401124	20	—	—
404035 2012 CM_{49}	17.5	X	23.65875	351.32328	58.72576	5.95568	0.1101553	0.22047335	2.7137217	20	—	—
404036 2012 CM_{51}	16.1	X	217.04447	339.56556	156.75560	10.61415	0.0645926	0.18622083	3.0370402	20	10 6.2	20.6
404037 2012 CU_{52}	17.2	X	328.10681	295.25218	128.33140	3.04539	0.0888953	0.20281817	2.8690061	20	12 2.9	20.7
404038 2012 CQ_{53}	16.8	X	199.73104	27.55275	101.68383	4.82675	0.1992312	0.18295646	3.0730588	20	8 28.8	22.0
404039 2012 DC	15.6	X	187.68725	161.85982	1.15511	18.78427	0.1447492	0.18374190	3.0642950	20	9 27.7	20.6
404040 2012 DO_{1}	15.9	X	218.65237	120.78539	338.62058	8.37644	0.0468116	0.17450777	3.1714622	20	8 21.9	20.4
404041 2012 DD_{3}	16.3	X	228.17015	317.32942	136.77212	10.14025	0.0466879	0.17446471	3.1719840	20	8 26.9	20.9
404042 2012 DQ_{5}	16.8	X	65.58462	273.06717	121.31509	7.64699	0.2086799	0.22739330	2.6583833	20	—	—
404043 2012 DV_{5}	16.3	X	336.71007	254.37988	120.26295	11.66985	0.0258932	0.18326559	3.0696022	20	10 13.9	20.7
404044 2012 DA_{6}	16.4	X	192.39386	27.12765	122.72900	13.04824	0.1966980	0.17967999	3.1103045	20	9 18.5	21.7
404045 2012 DB_{7}	16.6	X	218.15269	107.87854	106.44427	14.78729	0.0929474	0.21624559	2.7489777	20	—	—
404046 2012 DC_{7}	15.7	X	224.66205	132.24456	335.45352	11.62964	0.0707064	0.17918367	3.1160453	20	9 4.4	20.3
404047 2012 DB_{8}	17.3	X	93.71958	282.14640	152.86662	5.24848	0.2034309	0.25697188	2.4502608	20	3 12.9	20.1
404048 2012 DY_{8}	17.4	X	320.18584	337.19987	148.26437	3.94701	0.1286886	0.21816960	2.7327919	20	—	—
404049 2012 DR_{9}	16.6	X	246.54066	137.56101	336.42088	9.78224	0.0570726	0.18943598	3.0025787	20	10 8.7	20.9
404050 2012 DL_{12}	16.1	X	270.80610	295.21674	136.75645	10.74413	0.0582122	0.18170297	3.0871759	20	9 22.6	20.4
404051 2012 DT_{13}	15.7	X	34.02182	143.37927	160.64430	9.97441	0.0569332	0.17761667	3.1343457	20	9 29.7	19.9
404052 2012 DV_{13}	17.1	X	355.08572	82.98153	15.42700	2.68587	0.0708325	0.22105704	2.7089427	20	—	—
404053 2012 DG_{16}	16.2	X	255.76172	27.42315	72.78146	6.34797	0.1059016	0.18253247	3.0778158	20	10 2.1	20.5
404054 2012 DJ_{16}	15.8	X	254.06353	342.24260	147.60683	11.11570	0.0764094	0.18982556	2.9984692	20	11 11.7	20.1
404055 2012 DV_{16}	16.0	X	312.12446	10.78219	18.21904	9.38845	0.0575846	0.18244655	3.0787821	20	9 23.4	20.0
404056 2012 DE_{17}	16.1	X	217.08119	153.99312	319.18081	17.00840	0.1206282	0.18430307	3.0580717	20	8 26.8	20.9
404057 2012 DO_{23}	15.3	X	152.93170	29.43376	163.91230	14.98992	0.1006004	0.17617676	3.1514007	20	10 4.4	20.3
404058 2012 DX_{26}	15.9	X	199.84505	12.90242	148.27795	10.37791	0.0801855	0.18502056	3.0501607	20	10 16.6	20.6
404059 2012 DD_{27}	16.6	X	304.78894	117.76037	318.56116	11.44962	0.1091310	0.19753388	2.9199471	20	11 5.1	20.5
404060 2012 DJ_{27}	16.0	X	184.29888	156.37274	350.39664	10.34579	0.0950437	0.17312229	3.1883603	20	9 7.7	21.0
404061 2012 DM_{27}	15.9	X	64.68862	143.83372	172.95669	11.17824	0.0721143	0.18550080	3.0448941	20	11 26.6	20.4
404062 2012 DK_{29}	16.7	X	36.74362	271.36533	163.30191	8.70239	0.0881338	0.22081556	2.7109173	20	—	—
404063 2012 DS_{33}	16.5	X	38.04789	263.78646	149.23604	7.04041	0.0442634	0.21384987	2.7694704	20	—	—
404064 2012 DD_{38}	15.9	X	211.77359	47.77988	86.94205	9.98630	0.0820731	0.18255891	3.0775187	20	9 28.8	20.6
404065 2012 DQ_{39}	15.4	X	104.82037	285.92441	345.38880	9.45783	0.0784800	0.18287908	3.0739257	20	11 11.7	20.2
404066 2012 DT_{43}	16.1	X	332.79696	211.78462	147.01138	11.59753	0.0567588	0.17646170	3.1480074	20	9 13.2	20.2
404067 2012 DC_{50}	16.1	X	31.90384	198.78800	161.52923	9.49221	0.0736377	0.18802271	3.0176058	20	12 9.3	20.3
404068 2012 DN_{59}	16.4	X	266.87943	291.16809	160.41205	9.25375	0.0830537	0.18500373	3.0503457	20	10 8.2	20.5
404069 2012 DF_{60}	16.3	X	59.50345	174.77955	147.48692	9.93747	0.0412651	0.19325313	2.9629093	20	11 25.0	20.6
404070 2012 DW_{61}	15.4	X	56.05123	49.64981	236.02941	11.09403	0.0518266	0.17664093	3.1458776	20	9 28.9	19.9
404071 2012 DU_{65}	16.5	X	163.46136	62.48155	129.87063	2.15782	0.1116651	0.18233359	3.0800535	20	10 12.8	21.3
404072 2012 DF_{67}	16.4	X	172.50002	8.09984	121.42015	2.20219	0.0935883	0.16816389	3.2507299	20	8 4.8	21.4
404073 2012 DE_{69}	17.1	X	36.74370	79.20884	307.71924	3.51582	0.0752758	0.21377656	2.7701035	20	—	—
404074 2012 DH_{71}	16.4	X	64.55166	99.26087	244.13167	5.61495	0.0731372	0.20262803	2.8708006	20	12 30.1	20.5
404075 2012 DJ_{73}	16.5	X	98.42224	85.91784	150.28869	5.64481	0.1197483	0.17588760	3.1548538	20	10 1.7	21.2
404076 2012 DM_{79}	16.1	X	217.19145	74.33649	49.13062	7.27516	0.1499334	0.18312085	3.0712194	20	9 12.5	20.9
404077 2012 DV_{81}	16.0	X	256.00537	127.63249	340.98816	12.36484	0.1140951	0.18900659	3.0071246	20	10 5.0	20.3
404078 2012 DT_{83}	16.6	X	258.13768	321.98004	138.25334	5.16294	0.2483355	0.18827056	3.0149569	20	9 13.7	20.9
404079 2012 DL_{88}	15.4	X	26.48256	175.92552	342.18901	2.09811	0.1489216	0.12585716	3.9435204	20	3 22.2	20.0
404080 2012 DB_{89}	15.7	X	142.82441	187.09182	6.16097	11.84358	0.0701811	0.17800776	3.1297532	20	9 22.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404081 2012 DK_{89}	15.8	X	184.99792	66.96866	90.67040	6.25300	0.0824251	0.17805900	3.1291527	20	9 25.4	20.6
404082 2012 EN	17.6	X	219.79199	92.89176	305.55433	1.25550	0.2368146	0.27902065	2.3194151	20	5 23.6	21.3
404083 2012 ER_1	16.0	X	219.86455	75.89080	39.84068	9.34743	0.0426373	0.17548287	3.1597028	20	9 16.8	20.7
404084 2012 ES_1	15.8	X	162.71140	68.39190	94.27558	6.94654	0.1150962	0.17145268	3.2090257	20	9 7.5	20.9
404085 2012 ET_4	16.1	X	288.35021	258.16499	168.52292	8.53734	0.1495683	0.18449181	3.0559857	20	9 25.6	20.0
404086 2012 ES_6	16.2	X	184.00001	349.37970	139.48532	1.99976	0.1264595	0.17037161	3.2225863	20	8 14.8	21.3
404087 2012 EN_7	15.5	X	56.93217	305.86470	346.32589	15.78912	0.1893184	0.17865328	3.1222095	20	10 24.5	20.2
404088 2012 EZ_{10}	16.2	X	237.57860	40.99494	46.49630	1.60810	0.1470960	0.17537409	3.1610092	20	8 17.2	21.0
404089 2012 FV	15.8	X	315.15771	347.71028	74.21008	6.97157	0.0636968	0.18995544	2.9971023	20	11 9.4	19.6
404090 2012 FP_5	16.7	X	9.53973	61.82392	302.69857	1.05184	0.0827183	0.19032812	2.9931886	20	11 14.7	20.6
404091 2012 FO_9	15.8	X	51.25858	321.91492	345.21741	8.27809	0.1197205	0.18093759	3.0958756	20	10 30.3	20.2
404092 2012 FF_{19}	16.5	X	257.04319	343.72673	131.36285	4.15211	0.1048194	0.18894365	3.0077923	20	10 22.2	20.6
404093 2012 FK_{22}	15.8	X	25.90902	160.09242	164.91006	10.11248	0.0809677	0.17506323	3.1647501	20	10 18.3	20.1
404094 2012 FE_{30}	16.0	X	220.41491	63.43522	29.39387	5.12049	0.1338581	0.16833181	3.2485676	20	8 7.9	21.1
404095 2012 FP_{32}	16.1	X	238.44714	325.18084	132.22864	4.25306	0.0590436	0.18152860	3.0891524	20	9 11.8	20.4
404096 2012 FJ_{33}	16.1	X	321.84463	222.87154	214.08573	10.14956	0.1364859	0.19659640	2.9292223	20	12 8.4	19.5
404097 2012 FN_{33}	16.0	X	330.40455	39.60877	321.10846	9.14120	0.0743609	0.16831993	3.2487206	20	9 6.1	20.3
404098 2012 FM_{45}	16.8	X	246.11844	41.29559	55.07689	1.63065	0.1437649	0.18077375	3.0977459	20	9 7.8	21.4
404099 2012 FE_{46}	16.2	X	18.47034	199.35699	168.29396	11.26037	0.0776696	0.18920474	3.0050247	20	12 2.2	20.4
404100 2012 FK_{50}	17.5	X	6.90393	340.42214	107.03295	4.02799	0.1549379	0.21744472	2.7388619	20	—	—
404101 2012 FW_{57}	15.8	X	43.34769	319.01739	342.39136	8.22199	0.0286087	0.17379420	3.1801372	20	9 30.2	20.2
404102 2012 FS_{69}	15.4	X	252.33845	32.75853	39.42158	9.63987	0.1017300	0.17084644	3.2166127	20	8 24.4	20.1
404103 2012 FC_{82}	15.9	X	214.42674	355.98601	149.40186	13.05461	0.0434278	0.18110211	3.0940005	20	10 17.4	20.5
404104 2012 GN_2	17.0	X	9.80101	229.42086	187.94644	1.66283	0.0603153	0.19892777	2.9062911	20	—	—
404105 2012 GX_{20}	16.1	X	71.06564	115.46801	178.81085	9.18996	0.1006701	0.17680662	3.1439119	20	11 8.9	20.7
404106 2012 HX_{36}	15.9	X	314.05220	264.85726	162.19261	10.39428	0.0898934	0.17763570	3.1341219	20	11 11.6	20.0
404107 2012 QW_{35}	18.1	X	92.07583	99.78359	286.95170	3.39493	0.1439193	0.29690919	2.2252917	20	—	—
404108 2012 SF_{51}	15.1	X	254.87514	156.63742	1.14342	20.80059	0.6878339	0.24903742	2.5020327	20	10 1.6	19.5
404109 2012 UE_1	17.8	X	225.37078	225.23840	229.91175	19.49432	0.0898136	0.36189438	1.9502105	20	8 31.2	20.5
404110 2012 WO_8	17.5	X	299.94288	56.57386	307.63364	1.97798	0.1147274	0.22403792	2.6848603	20	7 30.1	20.4
404111 2012 XO_{40}	16.6	X	246.13454	1.94319	75.60432	11.24609	0.2060577	0.22171144	2.7036096	20	8 13.6	20.7
404112 2012 XQ_{83}	18.3	X	69.33620	73.36535	285.11765	16.48526	0.1104129	0.39021010	1.8546859	20	—	—
404113 2012 XX_{105}	17.0	X	309.58620	241.42483	306.56183	10.95016	0.1649734	0.27003544	2.3705851	20	—	—
404114 2012 XL_{152}	17.9	X	352.64081	331.99265	190.43969	4.34917	0.1928828	0.27658139	2.3330323	20	—	—
404115 2013 AG	15.8	X	299.45420	227.24795	308.32592	22.53128	0.2944302	0.25903665	2.4372229	20	—	—
404116 2013 AV_{17}	17.3	X	129.48745	288.37933	301.30217	17.20850	0.0654134	0.35356339	1.9807266	20	11 17.8	20.1
404117 2013 AJ_{23}	17.3	X	297.36625	245.04845	315.61571	5.64485	0.0983266	0.26644947	2.3918070	20	—	—
404118 2013 AF_{40}	17.9	X	342.29454	114.26419	129.85165	2.79659	0.1429519	0.29854084	2.2171762	20	4 12.5	19.6
404119 2013 AA_{42}	17.5	X	275.04053	194.21840	23.49365	5.05465	0.1364339	0.26319514	2.4114826	20	—	—
404120 2013 AZ_{57}	17.6	X	312.32593	244.07061	330.93948	2.04658	0.1413179	0.27760233	2.3273086	20	1 14.2	20.3
404121 2013 AY_{59}	17.4	X	243.98534	110.58084	122.30207	6.61483	0.0900936	0.26585788	2.3953539	20	—	—
404122 2013 AH_{74}	17.5	X	234.90714	97.92925	89.33296	7.33947	0.1952632	0.23596443	2.5936121	20	12 19.2	20.7
404123 2013 AL_{114}	16.8	X	329.60194	253.04825	122.76396	7.34008	0.0387428	0.22210340	2.7004278	20	10 10.7	20.3
404124 2013 AW_{116}	17.1	X	289.06307	241.60736	0.99554	5.54046	0.1488405	0.27724520	2.3293068	20	1 22.5	20.3
404125 2013 AW_{117}	17.7	X	328.44872	180.97137	343.26615	6.00089	0.1420219	0.26715920	2.3875691	20	—	—
404126 2013 AM_{128}	17.6	X	1.90994	58.54352	142.61269	6.65791	0.2292333	0.28387297	2.2929083	20	3 6.9	18.9
404127 2013 AN_{174}	17.3	X	233.93108	283.24281	218.01025	10.74934	0.1435239	0.22694450	2.6618869	20	10 25.6	21.1
404128 2013 AS_{182}	17.1	X	279.93802	14.20452	213.05022	11.53091	0.1540211	0.27055915	2.3675250	20	—	—
404129 2013 BN_8	16.7	X	113.15072	196.51813	105.41901	16.69086	0.1968940	0.24537862	2.5268429	20	—	—
404130 2013 BF_{28}	16.2	X	83.09310	96.99633	92.11334	13.54395	0.1816375	0.17980929	3.1088133	20	7 26.1	20.8
404131 2013 BD_{30}	18.3	X	354.73632	252.97071	346.89870	4.13464	0.1458359	0.30519362	2.1848372	20	4 28.2	19.9
404132 2013 BL_{61}	16.1	X	77.66381	70.85996	124.02428	9.89374	0.0571760	0.18197664	3.0840799	20	7 7.8	20.5
404133 2013 BP_{61}	17.8	X	359.59018	237.27586	314.36515	4.92411	0.1057503	0.28625621	2.2801641	20	2 26.4	20.0
404134 2013 BQ_{62}	17.4	X	264.87873	238.44764	345.49352	4.54748	0.0891458	0.26013680	2.4303465	20	—	—
404135 2013 CH_2	16.7	X	236.92439	243.73491	292.59368	11.38724	0.2032405	0.23135327	2.6279612	20	12 5.0	20.4
404136 2013 CV_4	18.0	X	344.04407	27.72274	159.59274	4.38596	0.0850728	0.28077378	2.3097502	20	1 29.0	20.6
404137 2013 CX_9	18.1	X	286.67179	53.15617	156.38107	1.59880	0.1287711	0.26610336	2.3938805	20	—	—
404138 2013 CM_{10}	17.4	X	296.25325	66.01900	110.46217	3.18678	0.1436220	0.25580286	2.4577203	20	—	—
404139 2013 CP_{16}	17.2	X	312.60734	265.85667	299.02276	3.51741	0.1528866	0.26780861	2.3837079	20	1 1.1	20.4
404140 2013 CQ_{17}	17.4	X	222.54929	160.42748	78.51419	3.44428	0.1849328	0.24278084	2.5448358	20	—	—
404141 2013 CE_{18}	18.3	X	51.80175	113.23913	32.27222	3.73422	0.0497059	0.28652026	2.2787630	20	3 21.7	20.8
404142 2013 CK_{18}	17.3	X	206.86614	240.08040	348.58507	13.03892	0.1248378	0.23437978	2.6052893	20	—	—
404143 2013 CR_{18}	18.1	X	207.18557	20.99718	6.94228	6.82881	0.0536293	0.30096448	2.2052570	20	5 3.8	20.9
404144 2013 CY_{18}	17.4	X	263.11676	145.38283	91.22214	2.30072	0.1470546	0.25741007	2.4474793	20	—	—
404145 2013 CB_{19}	17.3	X	254.17292	164.75547	69.99794	2.40738	0.1229628	0.25417719	2.4681885	20	—	—
404146 2013 CD_{19}	18.0	X	56.79476	146.61865	350.84972	6.88161	0.1206531	0.28595338	2.2817737	20	3 23.9	20.0
404147 2013 CF_{24}	17.4	X	7.03988	191.27130	331.39975	8.50880	0.1252077	0.27668077	2.3324736	20	1 30.5	19.7
404148 2013 CK_{29}	17.9	X	2.26163	118.17161	126.39707	5.33277	0.1286942	0.30388919	2.1910850	20	5 28.6	19.6
404149 2013 CR_{30}	17.9	X	312.28858	121.37764	113.30303	9.19680	0.0952372	0.28285345	2.2984147	20	2 18.0	20.6
404150 2013 CB_{32}	18.2	X	10.49345	335.95531	225.41171	1.98653	0.1782041	0.28954742	2.2628525	20	3 31.0	19.8
404151 2013 CQ_{33}	16.1	X	79.34919	248.82695	341.19786	22.22220	0.4886401	0.17714432	3.1399150	20	10 1.2	21.9
404152 2013 CK_{38}	17.4	X	337.82510	191.86631	349.73064	5.92477	0.1634018	0.27046501	2.3680743	20	1 2.9	20.1
404153 2013 CU_{38}	17.9	X	52.91468	155.57544	13.14308	6.84620	0.1230467	0.29508064	2.2344754	20	5 3.6	20.0
404154 2013 CS_{44}	17.1	X	41.70546	248.16216	133.42431	14.99687	0.1416395	0.24419520	2.5350000	20	—	—
404155 2013 CF_{46}	17.5	X	223.87881	177.03955	94.82375	5.86354	0.1727549	0.26100967	2.4249250	20	—	—
404156 2013 CS_{46}	18.2	X	328.78950	250.33997	8.46710	5.94249	0.0868863	0.29868451	2.2164652	20	4 15.4	20.3
404157 2013 CJ_{50}	17.1	X	40.79253	222.39232	337.84799	7.98025	0.0282709	0.30260146	2.1972967	20	5 17.8	19.7
404158 2013 CR_{54}	18.4	X	341.23089	198.30637	332.10491	2.13557	0.1295723	0.27200465	2.3591298	20	—	—
404159 2013 CG_{58}	17.7	X	321.90461	1.93827	171.86039	5.42623	0.0818236	0.26310879	2.4120102	20	—	—
404160 2013 CH_{62}	17.4	X	234.69103	72.64188	135.61891	7.28560	0.1556705	0.24181153	2.5516320	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404161 2013 CS_{64}	18.4	X	50.49919	201.86788	299.83209	6.38833	0.1000482	0.28848079	2.2684268	20	3 13.5	20.6
404162 2013 CX_{66}	17.4	X	251.05316	249.84204	306.00939	6.27841	0.1347839	0.24255970	2.5463823	20	—	—
404163 2013 CG_{70}	17.7	X	287.96744	88.91185	134.11833	5.08676	0.1797465	0.26830265	2.3807808	20	—	—
404164 2013 CC_{71}	16.4	X	184.07289	25.51330	123.36299	16.27324	0.0811790	0.20584447	2.8408170	20	9 18.8	20.9
404165 2013 CP_{75}	17.5	X	342.10826	214.33825	354.37112	7.77961	0.0888243	0.28174204	2.3044552	20	2 27.2	19.9
404166 2013 CQ_{75}	17.1	X	263.96659	232.52524	356.95579	6.03244	0.0725595	0.25988867	2.4318931	20	—	—
404167 2013 CX_{75}	16.9	X	294.68474	310.83778	275.67082	4.09501	0.1529755	0.27124925	2.3635077	20	1 6.9	20.1
404168 2013 CF_{77}	17.7	X	318.66888	44.28701	174.99383	2.37897	0.1616774	0.27326400	2.3518761	20	1 25.1	20.4
404169 2013 CF_{79}	18.3	X	149.15789	142.70366	312.21049	7.52965	0.0295711	0.30621059	2.1799971	20	5 23.2	21.0
404170 2013 CZ_{79}	18.3	X	298.34837	339.34913	255.20741	1.12837	0.1931205	0.27854554	2.3220519	20	1 15.1	21.4
404171 2013 CV_{81}	18.1	X	325.65607	55.86353	208.50008	5.97737	0.0597685	0.29868743	2.2164508	20	4 23.9	20.2
404172 2013 CH_{83}	16.9	X	166.78743	74.11282	153.80042	12.99670	0.1126242	0.21803148	2.7339459	20	12 4.1	21.4
404173 2013 CF_{84}	17.4	X	261.78426	91.86193	131.95373	5.65644	0.1572325	0.25257991	2.4785833	20	—	—
404174 2013 CA_{86}	17.7	X	52.48070	153.17638	21.74301	5.23551	0.0720804	0.29435219	2.2381604	20	5 5.8	20.0
404175 2013 CL_{86}	17.9	X	358.40486	122.38872	39.22828	1.74424	0.1241294	0.27203876	2.3589326	20	1 13.4	20.1
404176 2013 CO_{87}	18.2	X	266.86830	140.29948	120.15616	3.14329	0.1410679	0.27877033	2.3208034	20	1 20.5	21.6
404177 2013 CO_{88}	17.7	X	243.34536	2.80299	159.50481	24.98354	0.0597259	0.36990006	1.9219693	20	—	—
404178 2013 CC_{90}	16.2	X	197.99232	240.34380	324.69713	12.21736	0.2131397	0.22448428	2.6813001	20	11 25.1	20.8
404179 2013 CM_{93}	18.9	X	27.34878	200.53558	323.48664	4.30085	0.1133915	0.28632844	2.2797806	20	3 7.6	20.9
404180 2013 CG_{98}	17.7	X	218.95198	230.89553	332.74143	2.91965	0.1310413	0.23422523	2.6064352	20	12 29.2	21.2
404181 2013 CL_{100}	15.7	X	50.84229	346.52332	149.14584	10.66162	0.0295076	0.15085772	3.4948163	20	3 20.1	20.6
404182 2013 CZ_{101}	17.4	X	228.01054	254.80009	346.43884	6.64579	0.1898737	0.24253279	2.5465707	20	—	—
404183 2013 CO_{103}	17.5	X	343.21521	179.73914	25.14528	4.77452	0.0894074	0.28346327	2.2951171	20	2 23.8	19.8
404184 2013 CU_{106}	18.0	X	315.03602	153.03950	136.38989	5.32020	0.1738687	0.30235459	2.1984926	20	4 28.1	20.1
404185 2013 CY_{110}	17.4	X	293.23048	174.90735	18.34104	4.79925	0.1308627	0.25971346	2.4329867	20	—	—
404186 2013 CK_{111}	17.6	X	344.48059	183.20717	2.90189	6.75510	0.0499532	0.27859474	2.3217784	20	2 5.4	20.3
404187 2013 CC_{112}	17.5	X	301.77870	267.99203	346.08601	4.64643	0.2382057	0.27720897	2.3295097	20	2 8.7	20.7
404188 2013 CD_{113}	17.8	X	314.29638	43.11276	180.01368	3.07187	0.1510878	0.27681841	2.3317003	20	1 25.2	20.6
404189 2013 CE_{113}	16.4	X	104.22431	49.17805	110.02002	16.15053	0.2110662	0.17777009	3.1325422	20	7 13.4	21.2
404190 2013 CB_{118}	17.8	X	345.33031	153.20687	41.08259	3.41701	0.1430550	0.27502461	2.3418281	20	2 4.9	20.1
404191 2013 CC_{118}	17.6	X	6.88391	54.88175	92.17013	3.50605	0.1260966	0.26954400	2.3734656	20	1 7.3	19.9
404192 2013 CK_{120}	17.4	X	295.83534	63.21073	151.02095	6.99112	0.0719764	0.26617836	2.3934309	20	1 3.7	20.5
404193 2013 CY_{122}	17.7	X	244.79853	355.78579	248.28464	5.59922	0.0728590	0.25956332	2.4339249	20	—	—
404194 2013 CH_{123}	18.3	X	110.25564	122.08801	340.34796	4.31066	0.0517001	0.29398036	2.2400472	20	4 12.8	20.9
404195 2013 CH_{125}	17.4	X	349.51229	174.20445	32.45223	5.97352	0.1086570	0.28250164	2.3003225	20	3 6.5	19.6
404196 2013 CC_{126}	17.5	X	350.77524	93.96653	81.40823	3.84066	0.1186189	0.27145913	2.3622893	20	1 21.4	20.1
404197 2013 CW_{130}	17.1	X	257.10732	254.02995	340.72088	6.53539	0.0451441	0.25778174	2.4451262	20	—	—
404198 2013 CL_{132}	16.7	X	192.79472	283.14500	316.04279	11.65873	0.2280942	0.22787078	2.6546685	20	—	—
404199 2013 CG_{133}	16.9	X	27.83073	215.77589	108.72864	5.26741	0.0722601	0.21366452	2.7710718	20	10 26.7	20.6
404200 2013 CH_{133}	17.9	X	245.96035	220.83398	24.57732	3.01026	0.1417638	0.25947986	2.4344468	20	—	—
404201 2013 CV_{136}	17.4	X	192.06426	175.82991	63.28980	6.01987	0.0834640	0.23637754	2.5905894	20	—	—
404202 2013 CM_{138}	17.6	X	350.80098	247.37199	332.90147	7.22616	0.0700866	0.29010752	2.2599391	20	3 26.4	20.0
404203 2013 CS_{144}	17.7	X	262.58165	29.04559	204.63958	2.27614	0.1782933	0.25647166	2.4534458	20	—	—
404204 2013 CK_{152}	17.2	X	302.58304	125.43615	116.45855	6.86282	0.0802942	0.27912230	2.3188520	20	2 16.7	20.0
404205 2013 CS_{156}	17.5	X	210.70139	248.40014	359.52155	7.44612	0.1457197	0.24212191	2.5494509	20	—	—
404206 2013 CH_{159}	18.3	X	14.39774	274.26630	344.54580	4.37361	0.0084978	0.31387927	2.1443432	20	7 8.1	20.6
404207 2013 CB_{160}	17.4	X	266.72565	255.36994	1.19159	2.34426	0.1356404	0.26647738	2.3916400	20	1 18.1	20.9
404208 2013 CL_{162}	17.3	X	180.02142	120.97067	147.75315	5.07284	0.1582910	0.23606014	2.5929110	20	—	—
404209 2013 CQ_{162}	17.7	X	12.98804	186.13881	341.75600	8.48814	0.1208306	0.27752746	2.3277271	20	2 18.5	19.8
404210 2013 CU_{163}	17.4	X	262.14006	78.88363	160.75078	9.18290	0.1743672	0.25508398	2.4623357	20	—	—
404211 2013 CE_{166}	17.6	X	354.35227	161.65965	343.08874	2.62623	0.1221928	0.26403347	2.4063755	20	—	—
404212 2013 CM_{169}	17.1	X	268.04022	272.78823	3.20282	6.64615	0.1116310	0.27923373	2.3182350	20	2 15.7	20.3
404213 2013 CR_{169}	17.7	X	148.04468	280.75862	165.71543	5.96203	0.0528469	0.29963917	2.2117549	20	5 15.1	20.5
404214 2013 CX_{170}	18.2	X	319.82104	81.19276	200.18427	2.18512	0.0573225	0.30074204	2.2063443	20	5 10.9	20.6
404215 2013 CM_{172}	17.5	X	6.89685	10.16438	154.56752	6.47504	0.0509671	0.27634691	2.3343518	20	2 6.5	20.1
404216 2013 CT_{174}	17.7	X	271.18459	16.65755	332.31958	4.25404	0.1239364	0.30923992	2.1657368	20	5 24.2	20.2
404217 2013 CC_{181}	17.5	X	35.50950	244.38956	263.98841	4.80862	0.1090308	0.27988126	2.3146580	20	2 27.6	19.8
404218 2013 CT_{183}	16.8	X	251.63921	86.91649	101.36708	13.78949	0.1180150	0.24453500	2.5326511	20	—	—
404219 2013 CR_{184}	15.5	X	110.36025	27.71179	122.51353	23.59530	0.1457181	0.17667495	3.1454738	20	7 2.8	20.4
404220 2013 CG_{187}	17.5	X	243.52714	165.47477	37.60456	5.31176	0.1862302	0.24234396	2.5478934	20	—	—
404221 2013 CZ_{187}	18.3	X	71.16126	232.79377	318.88627	2.58378	0.0292800	0.31266767	2.1498792	20	6 25.7	20.6
404222 2013 CJ_{200}	18.2	X	343.54810	165.96570	68.70325	5.51211	0.0873439	0.29416418	2.2391139	20	4 8.5	20.4
404223 2013 CY_{203}	17.8	X	241.87183	172.38313	119.56361	7.43956	0.1152328	0.27719891	2.3295661	20	2 6.3	21.1
404224 2013 CX_{206}	17.1	X	144.70160	65.60610	273.42760	7.54234	0.1445255	0.26485161	2.4014173	20	—	—
404225 2013 CS_{208}	18.2	X	346.19070	181.61216	340.13241	3.63833	0.1065615	0.26517698	2.3994526	20	—	—
404226 2013 CM_{222}	17.9	X	191.28107	46.41563	186.66733	2.04919	0.1468924	0.23000373	2.6382309	20	12 31.8	21.8
404227 2013 DB_{5}	17.8	X	303.35161	138.68972	96.27007	1.61474	0.1640150	0.27481158	2.3430382	20	1 26.4	20.8
404228 2013 DF_{6}	17.3	X	290.98256	55.24980	111.98559	5.36918	0.0931103	0.24531868	2.5272544	20	—	—
404229 2013 DM_{7}	17.9	X	46.79768	31.96364	108.73681	5.76645	0.1272690	0.28172866	2.3045282	20	3 15.9	20.0
404230 2013 EF_{2}	18.1	X	328.71307	142.66381	119.73250	4.56154	0.0830070	0.29465177	2.2366430	20	4 25.4	20.3
404231 2013 EF_{3}	17.9	X	257.46317	35.06658	159.83494	2.43020	0.1395527	0.24645062	2.5195101	20	—	—
404232 2013 EZ_{3}	17.6	X	350.30532	257.44282	286.20482	1.89257	0.1204650	0.27470780	2.3436282	20	1 30.6	20.1
404233 2013 EM_{4}	16.5	X	255.24199	214.64470	332.93791	12.94134	0.1017206	0.23953593	2.5677669	20	—	—
404234 2013 EF_{5}	16.9	X	226.65735	267.64107	283.56888	5.00480	0.1370414	0.22926010	2.6439327	20	12 20.7	20.4
404235 2013 EH_{5}	17.8	X	248.16960	73.88598	179.59637	2.17520	0.1689370	0.25752587	2.4467455	20	—	—
404236 2013 EH_{6}	17.9	X	296.93976	285.61457	320.26188	2.24922	0.1286104	0.27374334	2.3491298	20	2 6.9	20.9
404237 2013 EF_{7}	17.6	X	216.22884	329.95138	327.05219	2.04786	0.1628472	0.26279231	2.4139463	20	1 19.1	21.5
404238 2013 EK_{7}	17.7	X	322.29790	99.75847	166.24629	5.99063	0.1564847	0.29003738	2.2603034	20	4 7.5	19.9
404239 2013 EV_{7}	17.9	X	266.38102	60.78718	192.53534	1.97571	0.0934982	0.26667465	2.3904604	20	1 16.6	21.2
404240 2013 EK_{9}	16.7	X	62.15303	324.54641	315.87794	6.13605	0.3122503	0.19075302	2.9887420	20	11 6.5	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404241 2013 ER_{9}	16.7	X	288.56210	47.88272	98.92103	16.47612	0.0832625	0.23301478	2.6154539	20	—	—
404242 2013 ES_{10}	16.7	X	268.53655	192.39632	324.77515	9.39141	0.1225566	0.23334948	2.6129523	20	—	—
404243 2013 EA_{11}	17.1	X	220.54674	36.43418	271.72860	6.80686	0.1321926	0.27359689	2.3499680	20	2 2.6	20.7
404244 2013 EY_{11}	17.9	X	31.80582	6.75225	121.29579	3.87823	0.0219663	0.27109134	2.3644254	20	1 26.6	20.6
404245 2013 EA_{15}	18.4	X	55.62520	156.35179	354.29201	4.44300	0.0841761	0.28949984	2.2631005	20	4 5.8	20.6
404246 2013 ES_{17}	16.7	X	189.54570	79.88021	109.03959	4.17873	0.1069002	0.21074169	2.7966347	20	11 8.2	20.9
404247 2013 ET_{28}	16.6	X	102.69837	330.27232	359.81194	12.30025	0.0163310	0.23222431	2.6213857	20	—	—
404248 2013 EW_{29}	16.4	X	194.94887	198.40686	19.22358	4.74908	0.0857686	0.22417146	2.6837939	20	12 22.1	20.3
404249 2013 EZ_{29}	16.8	X	226.86489	177.39598	23.47057	12.96570	0.0690615	0.23438669	2.6052381	20	—	—
404250 2013 EK_{30}	17.6	X	46.34796	112.29028	23.78830	5.92145	0.1053121	0.27813856	2.3243164	20	3 5.8	19.8
404251 2013 EO_{31}	17.1	X	163.25731	221.18260	64.43287	4.94982	0.0885901	0.23366639	2.6105893	20	—	—
404252 2013 EX_{31}	16.5	X	128.34800	160.13029	90.46781	5.17613	0.0722091	0.20739577	2.8266332	20	11 19.8	20.7
404253 2013 EY_{31}	16.6	X	210.29950	104.08792	153.44886	11.07646	0.0981450	0.23988966	2.5652421	20	—	—
404254 2013 EF_{33}	16.6	X	204.42672	216.24390	354.68087	12.46313	0.1213986	0.22441260	2.6818711	20	12 20.3	20.7
404255 2013 EV_{33}	16.8	X	319.16315	356.43151	187.02333	9.47316	0.1703278	0.25963833	2.4334561	20	—	—
404256 2013 EY_{33}	17.3	X	323.12421	230.38558	288.42199	3.83692	0.1054661	0.25179827	2.4837100	20	—	—
404257 2013 EQ_{34}	17.0	X	167.13083	268.01194	25.77208	6.19923	0.0374262	0.24346888	2.5400391	20	—	—
404258 2013 ER_{34}	17.2	X	194.42520	172.22170	48.79228	3.62581	0.1243819	0.22402765	2.6849423	20	12 21.5	21.2
404259 2013 EO_{37}	18.0	X	9.02990	55.62752	151.71106	6.86516	0.0270260	0.28828624	2.2694473	20	4 14.3	20.5
404260 2013 ES_{38}	16.0	X	331.17253	174.01506	141.18413	9.80034	0.0170246	0.17724253	3.1387550	20	7 15.7	20.4
404261 2013 EL_{44}	18.3	X	319.44740	129.42903	185.71486	3.50889	0.1455135	0.30816809	2.1707556	20	6 21.5	19.9
404262 2013 EP_{45}	17.3	X	180.46206	3.38166	289.80181	1.68396	0.1224356	0.24614549	2.5215918	20	—	—
404263 2013 EC_{46}	16.8	X	144.99720	351.45086	261.97389	0.69199	0.1953717	0.21430948	2.7655093	20	12 9.6	21.4
404264 2013 EV_{50}	18.2	X	68.74308	156.71856	343.88970	5.83439	0.0753206	0.28870355	2.2672599	20	4 10.1	20.8
404265 2013 EL_{67}	17.3	X	268.78721	57.88801	120.14652	5.01508	0.0647194	0.23593802	2.5938056	20	—	—
404266 2013 EY_{68}	16.8	X	100.97934	203.06118	30.54210	11.27455	0.1953982	0.18863022	3.0111233	20	10 9.8	21.6
404267 2013 EG_{74}	17.2	X	182.85915	220.13433	96.70832	2.71481	0.2099237	0.25658863	2.4527000	20	1 16.3	21.2
404268 2013 EJ_{79}	16.9	X	146.55478	113.13287	149.72302	7.96789	0.1850764	0.21840339	2.7308414	20	12 22.8	21.6
404269 2013 EY_{80}	18.0	X	269.79059	239.11531	86.22055	4.72285	0.0710021	0.29571256	2.2312909	20	4 29.3	20.7
404270 2013 EP_{82}	16.8	X	160.63575	251.31901	57.03921	5.64415	0.1194231	0.24474054	2.5312329	20	—	—
404271 2013 EQ_{83}	17.7	X	251.23420	145.60448	11.66222	3.18839	0.0693834	0.22542651	2.6738234	20	12 18.1	21.1
404272 2013 ES_{84}	17.3	X	302.22658	150.42677	72.41166	3.16475	0.1175846	0.26699149	2.3885689	20	1 17.2	20.4
404273 2013 EX_{85}	15.2	X	288.40525	107.99622	126.15182	6.93525	0.1971369	0.12583329	3.9440191	20	1 25.1	20.8
404274 2013 EA_{87}	17.1	X	249.11707	124.65941	53.22284	8.65946	0.0845971	0.22816648	2.6523744	20	—	—
404275 2013 EV_{87}	16.3	X	93.10116	106.91756	111.85240	13.95406	0.1729699	0.18405177	3.0608547	20	9 15.1	21.2
404276 2013 EE_{88}	16.4	X	267.13231	169.78811	353.94591	8.56151	0.0703502	0.23134390	2.6280322	20	—	—
404277 2013 EH_{88}	16.6	X	305.43406	203.20512	76.52784	10.73989	0.2704915	0.27998795	2.3140700	20	3 18.7	19.7
404278 2013 ET_{88}	17.5	X	320.49938	75.13741	119.62830	4.36571	0.0490716	0.26141427	2.4224223	20	1 14.8	20.4
404279 2013 EN_{90}	17.2	X	320.50896	131.63334	47.03194	7.83253	0.1185608	0.26194855	2.4191273	20	—	—
404280 2013 EL_{91}	17.5	X	17.61955	265.55091	248.40166	4.17997	0.1136802	0.27527155	2.3404273	20	2 3.9	19.7
404281 2013 EQ_{91}	17.3	X	11.17454	327.05312	176.01925	7.78857	0.1385185	0.26720540	2.3872940	20	1 7.4	19.8
404282 2013 EH_{92}	17.0	X	18.23893	221.93083	313.69647	3.05096	0.0847957	0.28018623	2.3129781	20	3 9.4	19.3
404283 2013 EQ_{97}	17.3	X	164.24078	256.94170	359.65938	3.45949	0.0764783	0.22590666	2.6700334	20	—	—
404284 2013 EX_{97}	17.5	X	238.94634	58.50742	170.14084	3.04761	0.0927062	0.24379451	2.5377769	20	—	—
404285 2013 EZ_{101}	16.3	X	96.01670	102.68896	133.99223	6.97994	0.1753193	0.18797622	3.0181034	20	10 7.9	21.1
404286 2013 EL_{102}	17.2	X	184.08066	166.72438	59.20102	5.15880	0.1547956	0.21854674	2.7296470	20	12 13.1	21.5
404287 2013 EC_{103}	16.5	X	71.27124	116.42758	131.90909	10.64974	0.1946217	0.17893729	3.1189050	20	9 28.8	21.2
404288 2013 EM_{105}	17.9	X	302.80233	33.83786	171.37468	6.29318	0.0665942	0.26500472	2.4004923	20	1 1.6	21.2
404289 2013 EN_{106}	16.9	X	220.66004	111.69996	74.94271	5.70543	0.0761480	0.22013881	2.7164704	20	12 13.8	20.7
404290 2013 EY_{106}	16.3	X	166.49447	165.37692	117.87752	11.97891	0.1369259	0.23293025	2.6160866	20	—	—
404291 2013 ED_{107}	16.8	X	249.79987	126.19366	88.71795	10.31546	0.1182102	0.24187812	2.5511637	20	—	—
404292 2013 EO_{107}	17.1	X	216.43642	134.56706	109.59194	4.52257	0.0381260	0.24083540	2.5585221	20	—	—
404293 2013 EM_{108}	16.0	X	214.54957	342.91957	111.86312	11.26964	0.0471335	0.18819190	3.0157970	20	8 13.3	20.4
404294 2013 EH_{109}	16.6	X	136.51176	154.76133	91.89838	5.02713	0.0498718	0.21073413	2.7967016	20	11 23.8	20.7
404295 2013 EL_{109}	16.9	X	0.84917	83.56881	2.09709	4.93800	0.0298151	0.23807387	2.5782690	20	—	—
404296 2013 EC_{110}	17.6	X	187.65280	134.64215	64.51174	2.90440	0.1570300	0.21279442	2.7786205	20	11 14.0	22.0
404297 2013 EQ_{111}	16.5	X	183.55071	119.96384	90.29893	4.80446	0.0349923	0.21419975	2.7664537	20	12 3.3	20.4
404298 2013 EP_{113}	17.2	X	242.63979	126.35524	49.79119	5.16608	0.1493805	0.22738540	2.6584449	20	12 19.4	20.6
404299 2013 ET_{113}	17.5	X	261.26245	73.40205	102.95393	3.62111	0.1464610	0.23459088	2.6037261	20	—	—
404300 2013 EV_{113}	17.3	X	302.04784	107.09170	150.26597	6.89381	0.0790919	0.27736050	2.3286612	20	3 8.2	20.1
404301 2013 EE_{115}	17.7	X	295.25435	35.68675	196.21067	1.25671	0.1385155	0.27321703	2.3521456	20	1 15.9	20.8
404302 2013 EZ_{115}	17.3	X	105.14951	264.42205	36.35648	5.32613	0.0972576	0.22039387	2.7143742	20	12 29.1	21.4
404303 2013 EH_{119}	16.9	X	272.66582	284.55714	337.10359	5.49697	0.1267277	0.26375856	2.4080472	20	2 1.6	20.2
404304 2013 EF_{120}	17.1	X	144.58263	78.27922	178.95186	7.05906	0.1491255	0.21515308	2.7582757	20	12 14.7	21.7
404305 2013 EV_{120}	17.7	X	102.17463	158.02867	292.32555	2.04944	0.1270540	0.28159982	2.3052311	20	3 28.9	20.5
404306 2013 EC_{121}	18.4	X	23.54268	291.70492	225.47289	0.90911	0.1213440	0.27351483	2.3504380	20	2 21.6	20.3
404307 2013 EJ_{121}	17.1	X	174.17436	230.37532	3.33137	3.81574	0.0611556	0.21939331	2.7226206	20	12 19.9	21.0
404308 2013 EV_{122}	16.7	X	217.23875	302.85847	8.81930	3.76806	0.1881501	0.26216850	2.4177740	20	2 7.5	20.7
404309 2013 EJ_{123}	17.7	X	329.79023	95.63647	164.82956	2.52215	0.1246867	0.28931178	2.2640811	20	4 17.1	19.8
404310 2013 EY_{124}	16.6	X	81.97132	212.85185	43.74865	4.97012	0.1234995	0.19015402	2.9950153	20	10 10.8	20.9
404311 2013 EQ_{126}	16.2	X	119.78033	235.47007	39.41426	9.99429	0.1442687	0.21150305	2.7899192	20	12 11.3	20.8
404312 2013 EN_{127}	17.9	X	309.86672	345.98885	181.75942	4.94489	0.1384601	0.25254060	2.4788404	20	—	—
404313 2013 EQ_{127}	17.4	X	222.38438	6.92838	206.22680	2.28057	0.0786788	0.22703724	2.6611620	20	—	—
404314 2013 ET_{127}	16.2	X	242.54274	282.02545	296.46326	11.93022	0.1157715	0.24009183	2.5638019	20	—	—
404315 2013 EG_{134}	17.4	X	141.27036	139.84474	127.68984	4.03823	0.0418463	0.21541209	2.7560643	20	12 24.7	21.4
404316 2013 FA_{2}	17.3	X	301.97722	263.16507	79.52861	7.13587	0.2411203	0.31067109	2.1590804	20	6 13.6	18.9
404317 2013 FU_{2}	16.7	X	24.03982	48.58318	57.10027	15.21156	0.0191101	0.25836180	2.4414651	20	—	—
404318 2013 FH_{4}	16.8	X	346.47154	10.39016	91.68643	9.00557	0.0279307	0.23928373	2.5695709	20	—	—
404319 2013 FP_{5}	17.3	X	323.05429	123.32512	82.00518	7.97199	0.0538421	0.26914839	2.3757908	20	2 1.4	20.2
404320 2013 FH_{7}	16.4	X	139.37036	217.23188	52.72468	5.55352	0.1286731	0.21510725	2.7586674	20	12 24.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404321 2013 FT_{9}	17.5	X	9.46193	134.63110	3.97384	9.45418	0.1407047	0.26426106	2.4049937	20	—	—
404322 2013 FN_{10}	17.2	X	297.36525	64.89482	187.84055	1.12976	0.1559116	0.27029796	2.3690499	20	2 12.6	20.1
404323 2013 FY_{11}	16.7	X	110.44781	244.24561	47.04314	8.40369	0.2064148	0.21464362	2.7626385	20	12 26.1	21.5
404324 2013 FH_{12}	17.2	X	344.34489	43.02686	124.51978	6.93986	0.0660936	0.26276029	2.4141424	20	1 8.9	20.1
404325 2013 FR_{12}	17.3	X	359.13543	72.16881	56.57672	7.06200	0.1370593	0.25324108	2.4742673	20	—	—
404326 2013 FA_{13}	17.3	X	246.65310	78.15033	114.95929	12.47061	0.1405494	0.23496643	2.6009510	20	—	—
404327 2013 FY_{14}	16.6	X	223.27806	100.50810	149.95308	12.90663	0.1527572	0.24131624	2.5551223	20	—	—
404328 2013 FZ_{16}	17.4	X	260.84630	143.55959	155.26825	5.78720	0.1067675	0.27364425	2.3496968	20	3 7.9	20.6
404329 2013 FD_{17}	17.4	X	312.18555	111.73764	127.62622	7.47589	0.0733441	0.26986003	2.3716122	20	2 29.4	20.3
404330 2013 FP_{17}	16.9	X	98.54780	69.54034	173.21058	3.28684	0.2052327	0.18921231	3.0049445	20	10 18.2	21.6
404331 2013 FY_{18}	17.1	X	255.61215	144.15499	72.30407	7.36553	0.1076469	0.24783613	2.5101112	20	—	—
404332 2013 FA_{19}	16.7	X	223.92140	223.12195	14.28664	5.63163	0.0751807	0.23906306	2.5711519	20	—	—
404333 2013 FD_{20}	17.7	X	267.93978	152.39043	168.43988	7.13268	0.1427401	0.28514229	2.2860986	20	4 10.6	20.8
404334 2013 FR_{20}	17.0	X	147.37197	89.99959	176.55371	7.69796	0.1890539	0.21464707	2.7626089	20	12 26.5	21.8
404335 2013 FT_{20}	17.0	X	162.77617	213.93609	34.05526	5.51563	0.0703349	0.21854919	2.7296266	20	12 24.2	21.1
404336 2013 FW_{20}	17.9	X	75.24703	105.12110	18.95618	7.29384	0.0511190	0.28046122	2.3114659	20	3 27.6	20.5
404337 2013 FX_{20}	17.3	X	144.38257	233.43360	52.87487	1.83998	0.1233715	0.22383467	2.6864854	20	—	—
404338 2013 FZ_{20}	17.6	X	228.07891	87.69085	156.19582	0.96124	0.0796878	0.24171953	2.5522795	20	—	—
404339 2013 FB_{21}	17.0	X	118.86538	281.03863	21.11817	5.04503	0.1413962	0.21843460	2.7305812	20	—	—
404340 2013 FN_{21}	17.9	X	119.94695	315.43568	182.27092	6.14732	0.0446859	0.30136804	2.2032879	20	6 18.4	20.7
404341 2013 FW_{22}	17.5	X	344.28615	242.63642	7.55821	6.37097	0.0355852	0.29126718	2.2539365	20	5 3.7	19.9
404342 2013 FO_{23}	16.5	X	69.91628	207.65931	26.61654	1.23751	0.1400806	0.17588096	3.1549332	20	8 29.7	20.8
404343 2013 FN_{24}	16.5	X	83.33537	189.70330	32.62591	1.82076	0.1292491	0.17824771	3.1269438	20	8 29.7	20.9
404344 2013 FP_{24}	16.9	X	168.94820	39.01779	188.76881	2.50587	0.0358988	0.21498277	2.7597322	20	12 7.9	20.7
404345 2013 FT_{26}	16.7	X	125.83003	238.23890	28.21134	4.99925	0.0346449	0.21404453	2.7677910	20	12 4.8	20.7
404346 2013 GW_{1}	17.2	X	158.94169	16.71704	281.51088	2.80396	0.1579269	0.23240838	2.6200014	20	—	—
404347 2013 GV_{3}	17.3	X	162.07875	253.81394	8.73875	9.09326	0.1588353	0.22245313	2.6975968	20	—	—
404348 2013 GK_{4}	17.7	X	27.88271	90.27190	106.71191	3.90136	0.0501135	0.29034506	2.2587063	20	4 28.9	20.1
404349 2013 GW_{6}	16.2	X	129.06543	144.98075	152.16099	25.76312	0.1198344	0.21979693	2.7192865	20	—	—
404350 2013 GO_{7}	16.2	X	93.25228	237.96619	78.81886	7.27711	0.2756044	0.20994160	2.8037355	20	—	—
404351 2013 GH_{9}	17.5	X	148.96984	72.68929	188.90869	3.64223	0.0757099	0.22004077	2.7172772	20	12 25.9	21.7
404352 2013 GR_{10}	16.6	X	110.90494	253.75189	29.13881	9.48256	0.1439581	0.20624786	2.8371116	20	12 11.8	21.2
404353 2013 GL_{11}	17.7	X	33.23638	189.20879	284.54049	1.18797	0.1488205	0.26420933	2.4053075	20	1 8.5	19.8
404354 2013 GV_{11}	17.7	X	322.44937	258.56833	276.02920	1.43085	0.1497222	0.25525343	2.4612458	20	—	—
404355 2013 GH_{12}	17.3	X	29.21874	329.42016	207.47949	3.35735	0.1078200	0.28035967	2.3120241	20	4 1.9	19.2
404356 2013 GP_{14}	17.1	X	198.94426	151.62302	76.54729	11.92459	0.1205101	0.22659213	2.6646459	20	—	—
404357 2013 GT_{15}	17.8	X	316.79859	356.78259	167.52976	2.79261	0.1472542	0.25378773	2.4707130	20	—	—
404358 2013 GS_{17}	16.2	X	96.27314	66.89527	162.57075	27.19387	0.2832623	0.17636433	3.1491660	20	10 8.1	21.7
404359 2013 GP_{19}	17.7	X	55.17221	326.39141	132.23645	7.37984	0.0642024	0.26554785	2.3972180	20	1 23.0	20.2
404360 2013 GL_{20}	17.7	X	5.33289	14.30729	176.88314	5.82243	0.0505627	0.27601114	2.3362446	20	3 13.3	20.0
404361 2013 GP_{20}	18.1	X	153.36459	292.14762	153.46224	5.16036	0.1066569	0.29607602	2.2294645	20	5 24.2	21.2
404362 2013 GT_{20}	16.4	X	135.62070	111.41491	172.39507	12.01178	0.2143570	0.21396118	2.7685098	20	—	—
404363 2013 GW_{20}	17.2	X	244.95904	128.05778	36.85408	7.37684	0.1410722	0.22303415	2.6929098	20	12 7.5	20.7
404364 2013 GX_{20}	17.2	X	215.29586	27.27851	157.32093	5.01143	0.0313487	0.21639992	2.7476705	20	12 10.7	21.0
404365 2013 GJ_{21}	16.8	X	169.26702	345.78965	316.58031	4.32280	0.1410174	0.23371819	2.6102036	20	—	—
404366 2013 GA_{22}	16.5	X	43.09291	244.14414	25.54326	0.98487	0.1522394	0.17662539	3.1460621	20	9 10.2	20.5
404367 2013 GN_{22}	17.0	X	164.89807	277.41658	27.26570	2.24363	0.0577201	0.23862100	2.5743264	20	—	—
404368 2013 GM_{25}	17.0	X	174.98441	347.69753	328.95901	5.27214	0.3289984	0.23708828	2.5854094	20	1 18.2	21.7
404369 2013 GC_{26}	17.2	X	54.40916	28.21288	82.43718	7.29259	0.0635452	0.27302355	2.3532567	20	2 8.9	19.8
404370 2013 GD_{26}	17.4	X	256.22912	168.69931	7.17596	5.19621	0.0636703	0.23053332	2.6341889	20	—	—
404371 2013 GF_{26}	17.7	X	257.42584	199.69198	10.24639	4.33601	0.1290412	0.24188598	2.5511085	20	—	—
404372 2013 GO_{26}	17.7	X	274.29246	91.88004	67.74859	6.93638	0.1296918	0.23165813	2.6256552	20	—	—
404373 2013 GL_{27}	16.7	X	153.37696	111.29095	177.78475	12.90817	0.1700706	0.22393094	2.6857153	20	—	—
404374 2013 GF_{29}	16.3	X	233.04595	65.74583	165.49807	13.55496	0.1369145	0.23860866	2.5744151	20	—	—
404375 2013 GR_{29}	17.5	X	313.76411	21.74815	204.79730	6.30454	0.0861657	0.26890488	2.3772248	20	2 8.0	20.6
404376 2013 GC_{31}	16.8	X	30.03500	207.79628	212.65672	5.57925	0.0281068	0.23655226	2.5893136	20	—	—
404377 2013 GV_{31}	17.1	X	264.62514	210.75357	1.64933	2.55167	0.0667712	0.24389057	2.5371104	20	—	—
404378 2013 GM_{32}	17.1	X	218.67789	359.74910	164.01456	4.60018	0.1401206	0.21180157	2.7872972	20	11 4.9	21.3
404379 2013 GB_{33}	16.6	X	59.44350	296.01755	349.91530	4.47669	0.2624704	0.18302948	3.0722415	20	11 4.2	21.3
404380 2013 GH_{36}	16.9	X	332.70553	112.71592	14.74274	6.07224	0.0707440	0.24070999	2.5594107	20	—	—
404381 2013 GG_{38}	17.4	X	61.50373	90.56846	34.78645	7.10236	0.0818069	0.27515161	2.3411074	20	3 14.9	19.9
404382 2013 GK_{39}	16.7	X	137.47585	133.05235	121.48755	5.36957	0.0207395	0.21073036	2.7967350	20	12 4.3	20.7
404383 2013 GL_{39}	16.6	X	287.24770	38.62519	122.98774	5.77278	0.1155001	0.23546328	2.5972909	20	—	—
404384 2013 GP_{39}	16.5	X	157.43146	256.75581	4.81231	25.43500	0.2359005	0.21976130	2.7195804	20	12 30.9	21.7
404385 2013 GB_{43}	17.7	X	61.09146	278.65574	187.33262	5.26827	0.1593950	0.26983960	2.3717319	20	2 20.5	20.0
404386 2013 GF_{43}	16.7	X	275.52644	131.47753	34.30346	5.21260	0.1233177	0.23276843	2.6172990	20	—	—
404387 2013 GN_{43}	16.4	X	136.89395	142.96752	42.61480	6.01952	0.1192269	0.18586405	3.0409255	20	9 11.4	21.2
404388 2013 GE_{44}	17.2	X	136.69567	166.68322	106.01495	4.44664	0.0550554	0.21477553	2.7615072	20	12 25.7	21.3
404389 2013 GX_{44}	16.7	X	291.63787	143.05080	35.54380	8.01911	0.1328317	0.24088722	2.5581551	20	—	—
404390 2013 GQ_{45}	17.0	X	305.21906	105.96708	98.95800	5.33089	0.1293273	0.26016423	2.4301756	20	—	—
404391 2013 GC_{46}	17.1	X	200.71952	137.89636	76.92919	4.69629	0.1126665	0.22079657	2.7110727	20	12 21.2	21.0
404392 2013 GR_{47}	16.8	X	119.48951	192.76144	78.37225	5.19154	0.0667175	0.20956583	2.8070861	20	12 4.6	21.0
404393 2013 GY_{47}	16.8	X	146.61710	168.48403	88.55441	6.46339	0.0195474	0.21666846	2.7453997	20	12 18.7	20.5
404394 2013 GW_{48}	17.0	X	120.70742	287.78732	61.84320	3.37159	0.0710766	0.24126119	2.5555109	20	—	—
404395 2013 GB_{49}	17.0	X	44.43460	258.72706	57.56373	2.65002	0.0424196	0.19948338	2.9008921	20	10 29.3	20.8
404396 2013 GH_{52}	16.4	X	125.91463	61.46496	126.16145	10.76879	0.0819183	0.17714776	3.1398744	20	8 29.8	21.1
404397 2013 GV_{52}	16.3	X	78.71877	182.33933	62.53892	6.45970	0.0741039	0.18153362	3.0890955	20	9 17.1	20.8
404398 2013 GW_{53}	17.4	X	179.33613	117.73664	135.91538	3.63674	0.0550637	0.22241685	2.6978901	20	—	—
404399 2013 GF_{54}	17.2	X	161.96212	97.37101	160.14373	4.43813	0.0863919	0.21659681	2.7460051	20	—	—
404400 2013 GD_{56}	16.3	X	31.76608	235.85316	49.35506	5.45771	0.1804857	0.17714857	3.1398648	20	9 20.2	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404401 2013 GO_{56}	16.8	X	131.10249	182.72580	92.07042	6.10535	0.1277815	0.21343170	2.7730866	20	12 22.6	21.2
404402 2013 GW_{56}	16.4	X	148.09632	108.34731	181.93355	14.66741	0.1762469	0.22434242	2.6824303	20	—	—
404403 2013 GW_{57}	17.1	X	101.03016	258.36923	40.22587	6.51276	0.0147522	0.21563553	2.7541600	20	12 14.6	21.0
404404 2013 GS_{58}	17.2	X	56.69009	103.09273	42.73338	1.60182	0.1394398	0.28249794	2.3003426	20	4 10.4	19.4
404405 2013 GR_{59}	17.2	X	127.72157	351.64934	19.52712	8.45722	0.1427298	0.25267767	2.4779439	20	1 25.8	20.7
404406 2013 GV_{59}	17.7	X	298.72088	326.37245	187.13788	3.45255	0.1772851	0.24054278	2.5605966	20	—	—
404407 2013 GR_{60}	17.3	X	333.63997	286.90884	201.66487	3.62711	0.1047156	0.24270753	2.5453483	20	—	—
404408 2013 GZ_{60}	16.6	X	75.30603	163.78199	82.42868	2.46691	0.1402262	0.18064722	3.0991924	20	9 21.4	21.0
404409 2013 GW_{61}	16.8	X	318.71142	58.36646	54.07614	2.69173	0.0277306	0.22843928	2.6502623	20	—	—
404410 2013 GD_{62}	17.4	X	33.24371	351.70374	79.57794	2.15833	0.0627511	0.24236327	2.5477581	20	—	—
404411 2013 GG_{65}	17.9	X	141.66066	295.96031	151.05708	6.66537	0.0735688	0.29064731	2.2571401	20	5 10.4	21.0
404412 2013 GN_{67}	17.7	X	337.02648	121.12774	46.12498	3.56478	0.1196238	0.25756783	2.4464798	20	—	—
404413 2013 GV_{70}	16.9	X	127.95413	213.87392	5.34297	2.03025	0.1906230	0.19106720	2.9854648	20	10 13.9	21.9
404414 2013 GL_{71}	16.6	X	182.09466	64.20146	182.39486	7.52030	0.1306180	0.21895693	2.7262369	20	—	—
404415 2013 GQ_{72}	16.0	X	23.16624	277.81832	26.24525	8.94489	0.0627022	0.17978705	3.1090696	20	9 17.3	20.2
404416 2013 GR_{73}	16.3	X	94.39305	117.61052	122.05651	11.12398	0.0512608	0.17755929	3.1350210	20	9 26.9	21.0
404417 2013 GG_{75}	17.4	X	191.93821	91.49598	120.39709	0.92833	0.0146028	0.21482380	2.7610935	20	12 17.3	21.0
404418 2013 GA_{77}	17.1	X	62.11529	55.77193	60.15272	6.51659	0.1709106	0.27006100	2.3704355	20	3 15.9	19.4
404419 2013 GF_{79}	16.2	X	102.91469	43.03999	164.47049	10.98762	0.1525994	0.17918964	3.1159761	20	9 3.3	21.0
404420 2013 GP_{81}	16.0	X	61.63274	173.21377	95.71504	7.54836	0.1503257	0.18063302	3.0993547	20	10 7.5	20.5
404421 2013 GT_{82}	16.4	X	285.15448	17.49151	124.34135	5.47924	0.0170507	0.21439300	2.7647911	20	—	—
404422 2013 GG_{86}	15.8	X	9.41871	185.06808	118.37604	12.51521	0.0390088	0.17404155	3.1771235	20	8 24.5	20.1
404423 2013 GP_{88}	16.7	X	170.98278	227.12482	81.72101	7.24891	0.1608277	0.23665027	2.5885986	20	—	—
404424 2013 GF_{89}	17.5	X	196.90241	133.88066	127.43263	3.48994	0.1394468	0.23488507	2.6015516	20	—	—
404425 2013 GH_{90}	17.0	X	261.57860	10.37873	176.64855	7.68027	0.1134093	0.22529906	2.6748317	20	—	—
404426 2013 GN_{91}	15.8	X	134.75427	295.54957	306.78829	11.03881	0.2386149	0.20181788	2.8784783	20	11 14.9	21.1
404427 2013 GE_{92}	16.8	X	251.23240	192.36425	11.48750	7.09760	0.2566206	0.23225433	2.6211598	20	—	—
404428 2013 GX_{92}	16.8	X	289.91287	149.92734	21.10321	9.22833	0.1013966	0.23845710	2.5755059	20	—	—
404429 2013 GW_{93}	17.1	X	189.72523	46.73658	190.44377	4.75628	0.1665774	0.22042822	2.7140921	20	12 31.1	21.3
404430 2013 GZ_{93}	16.2	X	62.41173	188.16295	48.85303	2.79027	0.1475527	0.17439953	3.1727742	20	8 25.6	20.6
404431 2013 GA_{94}	16.5	X	246.57989	111.99721	38.66688	6.15222	0.0794444	0.21815243	2.7329353	20	11 29.5	20.1
404432 2013 GX_{94}	16.7	X	188.37628	275.91648	8.72759	1.14383	0.1575300	0.23418082	2.6067647	20	—	—
404433 2013 GX_{95}	16.1	X	127.32119	140.76992	78.64896	6.34856	0.1629151	0.18914930	3.0056118	20	10 15.3	21.0
404434 2013 GA_{96}	16.8	X	287.05447	183.88248	113.88386	7.16431	0.1291925	0.27402758	2.3475050	20	4 8.1	19.8
404435 2013 GV_{96}	16.0	X	96.59369	179.13326	64.33222	6.62583	0.1138798	0.18081171	3.0973124	20	10 9.8	20.7
404436 2013 GQ_{97}	15.9	X	58.54435	238.68237	30.17571	5.25045	0.0986936	0.17803083	3.1294829	20	9 23.4	20.2
404437 2013 GJ_{98}	17.4	X	46.48572	338.79239	162.02569	6.41428	0.0514522	0.27260630	2.3556574	20	3 7.3	19.9
404438 2013 GM_{98}	16.6	X	73.02830	98.63054	155.32365	2.38149	0.1762170	0.17987866	3.1080139	20	10 2.2	21.1
404439 2013 GS_{98}	17.3	X	323.58536	93.29573	135.66886	3.51904	0.1100100	0.26854279	2.3793612	20	2 24.7	19.9
404440 2013 GZ_{98}	16.0	X	134.14674	198.65319	104.94143	13.85942	0.1297118	0.21840985	2.7307875	20	—	—
404441 2013 GF_{101}	16.7	X	150.43092	89.30980	77.13452	1.27371	0.2245868	0.18374042	3.0643115	20	9 1.1	21.9
404442 2013 GT_{101}	15.8	X	52.78246	251.93727	69.70969	12.39448	0.1972756	0.18794742	3.0184117	20	12 3.6	20.2
404443 2013 GL_{102}	16.7	X	229.73556	105.38615	99.33862	6.73755	0.1266642	0.22939379	2.6429053	20	—	—
404444 2013 GR_{102}	17.0	X	186.56765	98.95508	166.77901	7.66704	0.0730601	0.23316527	2.6143284	20	—	—
404445 2013 GU_{102}	17.3	X	231.72329	99.57065	143.39645	2.08180	0.0283220	0.24190068	2.5510051	20	—	—
404446 2013 GC_{103}	16.9	X	245.73739	105.66865	161.46780	4.18349	0.0616516	0.25743145	2.4473438	20	1 14.7	20.3
404447 2013 GL_{103}	17.6	X	51.05155	153.30658	354.54428	4.43325	0.0937989	0.27969935	2.3156615	20	3 27.3	19.9
404448 2013 GD_{104}	16.5	X	251.53244	148.41688	65.90297	12.69869	0.1336155	0.23567128	2.5957625	20	—	—
404449 2013 GD_{105}	17.2	X	350.85150	68.42000	80.64413	6.84165	0.1596595	0.25710053	2.4494434	20	—	—
404450 2013 GK_{107}	17.4	X	38.15100	28.07816	149.25229	5.48994	0.1055041	0.28196592	2.3032353	20	4 22.5	19.6
404451 2013 GN_{107}	17.5	X	314.63314	33.57489	173.52907	6.04926	0.0910269	0.26023674	2.4297242	20	1 16.1	20.6
404452 2013 GM_{110}	16.0	X	102.92116	186.09420	37.14404	7.56673	0.2099634	0.17862691	3.1225169	20	9 29.8	21.0
404453 2013 GN_{110}	16.4	X	198.98670	292.65706	37.58385	7.12625	0.1142315	0.25588399	2.4572008	20	2 16.1	20.2
404454 2013 GS_{110}	15.9	X	96.70083	136.89913	96.29604	12.00076	0.0939670	0.17985731	3.1082599	20	9 28.6	20.7
404455 2013 GB_{111}	16.9	X	286.38580	48.43241	138.39872	4.09526	0.1163103	0.24104943	2.5570074	20	—	—
404456 2013 GA_{113}	17.1	X	315.99558	74.29751	96.00180	5.14582	0.0943517	0.24578145	2.5240812	20	—	—
404457 2013 GV_{114}	17.0	X	259.70269	90.02511	165.22377	15.71912	0.0854638	0.25847397	2.4407586	20	1 12.8	20.7
404458 2013 GB_{116}	16.1	X	83.33944	170.58887	53.75847	11.56438	0.0564591	0.17687977	3.1430450	20	8 27.4	20.8
404459 2013 GL_{117}	17.1	X	81.14572	305.77417	40.60304	5.53624	0.0579499	0.22530929	2.6747508	20	—	—
404460 2013 GN_{117}	16.7	X	55.80217	124.95809	152.74815	2.80347	0.1261188	0.18564353	3.0433332	20	10 5.4	20.9
404461 2013 GR_{120}	16.6	X	265.70967	77.60163	68.83967	2.86332	0.0129854	0.21927366	2.7236110	20	12 29.2	20.1
404462 2013 GZ_{120}	17.3	X	154.99731	240.55684	119.72393	1.91205	0.1887937	0.25370121	2.4712747	20	2 12.4	20.9
404463 2013 GD_{121}	17.3	X	196.78686	215.17689	42.56919	3.03048	0.0513946	0.23280827	2.6170003	20	—	—
404464 2013 GG_{123}	16.2	X	75.48861	199.60910	69.89289	5.98736	0.1075986	0.18423700	3.0588028	20	10 17.5	20.7
404465 2013 GK_{123}	17.7	X	56.77919	333.07896	168.95352	5.61722	0.0708619	0.27414986	2.3468069	20	3 27.9	20.2
404466 2013 GJ_{124}	16.8	X	57.21478	282.20035	20.27144	1.89081	0.0579480	0.19587983	2.9363619	20	10 28.9	20.7
404467 2013 GQ_{124}	17.3	X	107.72389	276.30943	35.54034	4.26511	0.0522770	0.21747628	2.7385970	20	—	—
404468 2013 GH_{126}	16.0	X	120.26147	20.61694	199.06459	9.75527	0.0808603	0.18112745	3.0937119	20	9 29.5	20.6
404469 2013 GR_{126}	16.9	X	244.15533	41.64752	92.13625	6.04496	0.1030388	0.20666527	2.8332902	20	11 2.2	20.8
404470 2013 GU_{128}	16.5	X	160.81258	177.90174	93.71529	10.19157	0.1035383	0.22717843	2.6600593	20	—	—
404471 2013 GB_{131}	17.4	X	41.56157	61.06434	97.07268	7.31855	0.0722897	0.28072472	2.3100193	20	3 29.5	19.9
404472 2013 GZ_{134}	15.8	X	52.89983	196.20108	119.72460	9.58716	0.1780396	0.18440080	3.0569912	20	11 26.1	20.3
404473 2013 GH_{135}	17.0	X	169.90188	162.65167	79.39332	4.68167	0.0421530	0.21406121	2.7676472	20	12 25.6	21.0
404474 2013 GT_{135}	16.5	X	39.45998	335.07646	49.35674	9.52927	0.0933223	0.21919013	2.7243028	20	—	—
404475 2013 GD_{136}	16.0	X	77.16459	199.01153	73.58624	13.50864	0.0552003	0.18318215	3.0705342	20	10 19.9	20.6
404476 2013 GG_{136}	17.0	X	158.46920	208.39943	77.50686	5.90110	0.1567494	0.22050830	2.7134350	20	—	—
404477 2013 GL_{136}	16.1	X	94.93496	148.60207	78.30440	18.19526	0.0666370	0.18069820	3.0986094	20	9 19.7	21.0
404478 2013 HG_{2}	15.7	X	31.72539	133.83351	167.88155	10.96860	0.0999300	0.17805039	3.1292536	20	9 28.9	19.7
404479 2013 HL_{4}	16.1	X	102.12676	93.69437	116.76587	11.71116	0.1761712	0.18153700	3.0890571	20	9 12.8	21.1
404480 2013 HB_{5}	16.0	X	125.98178	126.17199	159.67815	13.96711	0.1363890	0.21139356	2.7908825	20	12 30.5	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404481 2013 HW_8	16.8	X	224.14661	82.26522	111.46107	13.86228	0.1516764	0.21969551	2.7201233	20	12 17.6	20.7
404482 2013 HH_9	17.0	X	246.47195	200.77324	91.98144	7.76595	0.1663543	0.26511779	2.3998097	20	2 11.6	20.7
404483 2013 HX_{12}	16.8	X	171.09020	0.68526	230.04183	1.71507	0.1233282	0.21224473	2.7834159	20	12 7.8	21.0
404484 2013 HH_{16}	16.5	X	79.09694	75.24726	174.26017	4.76586	0.2130310	0.17918805	3.1159946	20	10 7.5	21.3
404485 2013 HL_{16}	16.1	X	146.21567	95.81136	77.36949	11.42893	0.1365238	0.18128997	3.0918626	20	9 8.4	21.2
404486 2013 HD_{18}	16.6	X	266.20556	69.69467	92.71464	14.35596	0.0856012	0.22703875	2.6611502	20	—	—
404487 2013 HP_{18}	16.0	X	7.10354	264.26929	26.00515	4.77428	0.0912524	0.16924245	3.2369042	20	8 6.2	20.1
404488 2013 HK_{20}	15.9	X	56.74744	114.47087	139.06711	25.65430	0.1951380	0.17211019	3.2008476	20	9 17.7	20.5
404489 2013 HF_{23}	17.5	X	39.72546	191.25792	3.51752	5.36095	0.0925735	0.28594263	2.2818308	20	5 16.8	19.8
404490 2013 HS_{23}	16.4	X	311.67167	35.80524	115.92066	9.62332	0.1322745	0.23861742	2.5743521	20	—	—
404491 2013 HH_{24}	17.1	X	261.34886	342.41243	234.64114	1.93115	0.0328800	0.23945157	2.5683700	20	—	—
404492 2013 HL_{24}	15.7	X	41.41190	280.56129	36.09868	10.15703	0.0757573	0.19008349	2.9957561	20	10 28.4	19.5
404493 2013 HH_{26}	17.0	X	56.47028	207.06432	217.68989	2.92626	0.0849709	0.24707469	2.5152657	20	—	—
404494 2013 HK_{26}	16.9	X	331.17792	159.56988	358.96351	2.42287	0.0633203	0.24709873	2.5151026	20	—	—
404495 2013 HA_{28}	16.0	X	140.56203	93.49241	62.90453	16.29223	0.0389127	0.17207924	3.2012314	20	8 6.8	20.9
404496 2013 HU_{28}	15.9	X	126.26401	107.46554	95.74118	11.10992	0.0113087	0.18126198	3.0921809	20	9 17.1	20.4
404497 2013 HT_{29}	16.9	X	257.15014	216.08845	280.66183	5.18811	0.0050323	0.21195799	2.7859256	20	12 5.0	20.8
404498 2013 HN_{30}	17.1	X	325.05742	310.48059	257.58897	5.03473	0.0835928	0.26456125	2.4031740	20	1 31.6	20.2
404499 2013 HK_{31}	16.8	X	42.06860	104.19965	279.50443	5.64602	0.0308493	0.22340629	2.6899185	20	—	—
404500 2013 HA_{32}	17.6	X	32.57258	209.86507	270.03227	5.23482	0.1441790	0.26282203	2.4137644	20	1 16.1	19.7
404501 2013 HD_{33}	17.3	X	91.59190	344.65459	323.22522	5.07528	0.0323978	0.21196818	2.7858364	20	12 15.9	21.3
404502 2013 HF_{36}	17.3	X	60.93327	42.58397	320.04792	5.22226	0.0620189	0.22070421	2.7118290	20	—	—
404503 2013 HG_{36}	16.6	X	116.44241	300.23765	311.32042	4.98303	0.0413117	0.19934382	2.9022459	20	11 1.9	20.9
404504 2013 HL_{36}	17.2	X	131.83190	61.81623	253.42085	7.01051	0.1040887	0.22625300	2.6673079	20	—	—
404505 2013 HU_{41}	17.0	X	84.22873	287.13423	325.15220	3.80202	0.0915267	0.18512106	3.0490567	20	9 30.7	21.4
404506 2013 HV_{41}	16.8	X	77.24977	259.64333	7.54425	8.47129	0.0577393	0.18866550	3.0107479	20	10 7.9	21.2
404507 2013 HX_{41}	16.5	X	13.81203	315.93185	355.52412	5.61020	0.1648475	0.17594385	3.1541813	20	9 20.2	20.1
404508 2013 HB_{48}	17.0	X	132.55149	29.44763	250.92008	2.97380	0.0685764	0.21382398	2.7696939	20	12 30.1	21.0
404509 2013 HF_{48}	17.4	X	119.76208	342.74283	349.97010	4.32254	0.1191457	0.22694921	2.6618501	20	—	—
404510 2013 HO_{50}	17.1	X	218.97196	327.69854	330.10194	5.19065	0.1022360	0.25207046	2.4819217	20	1 24.9	20.7
404511 2013 HY_{51}	17.1	X	183.08442	167.30494	352.44660	5.18314	0.0287913	0.19037558	2.9926911	20	9 26.4	21.5
404512 2013 HJ_{54}	16.7	X	267.48522	178.71562	358.91194	6.26549	0.0858592	0.23283620	2.6167910	20	—	—
404513 2013 HP_{54}	17.1	X	193.33538	42.27614	213.78949	11.83319	0.0977428	0.22974023	2.6402478	20	—	—
404514 2013 HY_{59}	15.7	X	34.10452	268.59370	9.99258	15.16521	0.0164488	0.17877060	3.1208435	20	8 28.0	20.2
404515 2013 HX_{60}	16.9	X	275.25133	200.74989	358.17027	4.18606	0.1186547	0.24240306	2.5474792	20	—	—
404516 2013 HV_{67}	16.8	X	141.29323	233.14305	322.06867	3.55135	0.0552231	0.18885694	3.0087129	20	9 21.5	21.2
404517 2013 HZ_{68}	18.3	X	122.76076	112.83180	311.33917	2.35387	0.1657260	0.27438365	2.3454737	20	3 25.5	21.4
404518 2013 HE_{78}	17.0	X	121.71236	313.57481	263.23287	1.37557	0.0520979	0.18836260	3.0139746	20	9 26.5	21.5
404519 2013 HP_{96}	17.4	X	108.31534	349.86023	30.99469	2.35925	0.1149168	0.24741230	2.5129771	20	1 7.9	20.5
404520 2013 HD_{97}	17.1	X	92.86784	251.92391	40.22384	2.50031	0.0454324	0.20573472	2.8418272	20	11 27.9	21.0
404521 2013 HR_{98}	17.0	X	94.80383	358.73249	220.45215	2.43067	0.0925645	0.17940325	3.1135022	20	9 1.6	21.5
404522 2013 HF_{102}	18.4	X	101.51367	83.80249	354.13772	1.52991	0.1443927	0.27209431	2.3586115	20	3 15.7	21.1
404523 2013 HA_{111}	17.8	X	77.36018	250.73004	204.69366	0.94274	0.1411776	0.26971340	2.3724717	20	3 3.4	20.1
404524 2013 HH_{111}	18.0	X	50.13674	79.36938	24.56061	2.48789	0.1423982	0.26267026	2.4146941	20	1 29.2	20.2
404525 2013 HN_{116}	18.1	X	228.62612	178.73876	200.01783	5.11990	0.1260143	0.29132860	2.2536197	20	5 15.0	21.2
404526 2013 HK_{119}	16.0	X	65.75187	213.72429	58.58295	4.74224	0.0984293	0.18463614	3.0543929	20	10 7.9	20.4
404527 2013 HP_{121}	17.5	X	128.11410	123.47565	174.12342	1.87542	0.0678526	0.21877368	2.7277590	20	—	—
404528 2013 HX_{123}	16.9	X	41.88035	8.73060	327.92979	8.13900	0.1054436	0.20153080	2.8812113	20	11 27.8	20.9
404529 2013 HK_{127}	17.0	X	98.46955	337.19239	0.01145	6.10963	0.0685264	0.22340418	2.6899355	20	—	—
404530 2013 HM_{128}	16.6	X	342.85747	97.57818	321.15445	5.35833	0.0533794	0.21342299	2.7731621	20	12 19.4	20.1
404531 2013 HX_{131}	17.5	X	120.14034	92.35314	238.62748	4.81739	0.2008248	0.22451702	2.6810395	20	—	—
404532 2013 HN_{135}	17.5	X	101.00583	354.75674	27.29038	3.97903	0.1612597	0.24240261	2.5474824	20	1 7.8	20.6
404533 2013 HB_{138}	17.6	X	192.25249	3.54967	16.93698	7.31247	0.1246806	0.28003705	2.3137995	20	4 8.0	21.0
404534 2013 HA_{142}	17.5	X	87.67629	131.48303	163.18226	2.19910	0.0450947	0.20341433	2.8633978	20	11 25.3	21.6
404535 2013 HY_{142}	16.7	X	89.96271	81.77944	126.56813	2.12292	0.1100587	0.17286501	3.1915231	20	8 16.4	21.4
404536 2013 JS_1	17.4	X	260.42491	9.64462	137.40098	5.67531	0.1939551	0.22242669	2.6978106	20	11 29.9	20.7
404537 2013 JH_7	15.8	X	229.25132	282.65662	247.01238	13.72092	0.0985333	0.20530518	2.8457895	20	11 26.8	19.9
404538 2013 JE_{13}	15.9	X	340.27275	251.16781	111.24901	8.21517	0.1663509	0.17450478	3.1714985	20	10 1.2	19.5
404539 2013 JP_{18}	16.3	X	145.55442	310.35803	211.25768	4.35856	0.0773660	0.17226405	3.1989413	20	8 14.4	21.2
404540 2013 JM_{19}	16.0	X	337.33527	330.23657	66.68960	9.54958	0.2104828	0.19036775	2.9927732	20	11 14.4	18.9
404541 2013 JL_{21}	15.7	X	32.86841	206.03957	137.76136	11.12752	0.1095501	0.18823205	3.0153681	20	11 27.0	19.9
404542 2013 JY_{22}	16.7	X	83.46067	268.33048	63.90994	7.08438	0.0387681	0.21221148	2.7837066	20	—	—
404543 2013 JM_{24}	16.9	X	106.60593	123.26183	129.02047	2.71765	0.0636122	0.19091010	2.9871024	20	10 26.3	21.3
404544 2013 JG_{25}	17.2	X	313.13103	309.11128	203.37833	2.09936	0.1432531	0.23777768	2.5804097	20	—	—
404545 2013 JC_{26}	16.1	X	187.17093	355.54892	140.48330	10.57635	0.0566090	0.17608596	3.1524840	20	8 31.2	20.7
404546 2013 JR_{26}	16.2	X	42.71533	93.13298	211.98030	2.48723	0.2550044	0.17561149	3.1581597	20	11 7.9	20.4
404547 2013 JL_{30}	16.2	X	250.59946	263.35272	233.96479	13.99810	0.1039166	0.20538919	2.8450135	20	11 12.1	20.0
404548 2013 JJ_{31}	16.3	X	79.80668	83.91136	154.05516	9.70159	0.0943419	0.17948276	3.1125826	20	9 9.7	20.6
404549 2013 JP_{31}	17.0	X	133.89280	36.05067	208.07938	1.40950	0.0461964	0.19547405	2.9404241	20	11 14.2	21.3
404550 2013 JY_{32}	15.8	X	325.77714	248.46202	147.53665	10.88852	0.0976264	0.18241510	3.0791359	20	10 22.8	19.7
404551 2013 JE_{35}	15.8	X	119.09456	91.49627	106.37059	17.25364	0.1936418	0.17817406	3.1278054	20	9 17.1	21.2
404552 2013 JX_{38}	15.8	X	24.75157	229.07762	101.67760	14.65128	0.1521651	0.17659586	3.1464128	20	11 6.3	20.1
404553 2013 JA_{40}	15.8	X	311.96957	271.02197	139.28929	10.32517	0.0522791	0.18345076	3.0675363	20	10 23.1	20.0
404554 2013 JR_{40}	15.7	X	174.42524	33.47938	114.46380	9.43967	0.1366270	0.17951963	3.1121564	20	8 31.9	20.7
404555 2013 JY_{40}	15.7	X	22.95322	232.68818	118.14487	5.78899	0.0896344	0.19101798	2.9859777	20	11 19.2	19.6
404556 2013 JC_{41}	16.6	X	186.34140	93.88031	113.49902	1.87696	0.0730926	0.20447101	2.8535241	20	11 27.6	20.7
404557 2013 JK_{42}	16.6	X	204.68757	162.53031	96.84523	9.70078	0.1686571	0.22630339	2.6669120	20	—	—
404558 2013 JT_{42}	16.2	X	50.25149	42.92421	248.86282	1.91636	0.1098325	0.17862524	3.1225363	20	10 10.8	20.4
404559 2013 JW_{43}	16.5	X	117.27677	226.09821	8.10520	2.61525	0.1960905	0.18820651	3.0156409	20	10 22.3	21.5
404560 2013 JB_{45}	16.7	X	156.90447	239.01112	87.13720	4.29841	0.0595103	0.23315278	2.6144218	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404561 2013 JL_{46}	16.2	X	200.13582	309.89241	205.47610	15.10154	0.0222713	0.18319293	3.0704139	20	10 10.7	20.5
404562 2013 JM_{47}	16.5	X	80.59631	159.99340	141.59265	10.15598	0.0603304	0.19493124	2.9458803	20	11 27.5	20.9
404563 2013 JO_{50}	15.5	X	23.84682	92.74610	223.95230	17.32246	0.1014267	0.18034380	3.1026675	20	10 2.5	19.7
404564 2013 JX_{50}	15.8	X	21.02721	253.51982	55.07853	16.51494	0.1388520	0.17412469	3.1761121	20	10 3.6	20.0
404565 2013 JK_{52}	17.3	X	84.27479	285.61594	43.87214	4.81829	0.1033694	0.21192464	2.7862179	20	—	—
404566 2013 JS_{53}	16.3	X	54.59064	187.57943	100.87520	2.08151	0.1459229	0.18192429	3.0846716	20	10 19.6	20.5
404567 2013 JB_{54}	16.9	X	12.60559	278.68280	143.91021	11.42814	0.1308321	0.22192145	2.7019037	20	—	—
404568 2013 JD_{54}	16.3	X	41.51780	162.19859	144.45206	10.19662	0.0832082	0.18172710	3.0869025	20	10 19.2	20.6
404569 2013 JV_{57}	16.6	X	33.29054	209.74189	125.90575	5.14170	0.1467881	0.18593520	3.0401497	20	11 20.9	20.6
404570 2013 JL_{59}	16.5	X	57.77724	235.81599	73.82644	2.33848	0.1260477	0.18975859	2.9991747	20	11 16.3	20.8
404571 2013 JQ_{59}	16.0	X	61.97412	199.84865	91.82882	4.45198	0.0907615	0.18637712	3.0353422	20	10 26.4	20.3
404572 2013 JX_{59}	16.2	X	53.15625	204.80032	106.11830	2.12784	0.1551083	0.18536210	3.0464128	20	11 15.8	20.5
404573 2013 JD_{60}	16.4	X	181.25661	84.82156	74.70979	1.12509	0.0721069	0.18734350	3.0248950	20	9 22.6	20.9
404574 2013 JE_{62}	17.7	X	333.75666	116.18174	62.86321	2.62311	0.1145335	0.25613501	2.4555951	20	1 3.6	20.5
404575 2013 JX_{62}	16.4	X	121.44468	176.95411	130.45662	10.48870	0.1404308	0.21202709	2.7853204	20	—	—
404576 2013 KH_{4}	16.5	X	98.02362	151.70661	94.92685	2.46426	0.2023263	0.18438296	3.0571884	20	10 21.8	21.4
404577 2013 KU_{9}	16.1	X	0.88134	263.68472	74.73021	10.79792	0.0589033	0.17663519	3.1459458	20	10 1.7	20.4
404578 2013 KG_{10}	16.5	X	125.49124	131.90947	77.92660	2.60943	0.1635625	0.18021263	3.1041729	20	9 29.9	21.4
404579 2013 KR_{10}	16.1	X	64.33278	45.18888	221.68380	3.73964	0.1582347	0.17366611	3.1817007	20	10 3.3	20.6
404580 2013 KU_{10}	15.7	X	124.26655	128.48184	72.88234	11.12540	0.1741841	0.17651820	3.1473356	20	9 23.7	21.0
404581 2013 KU_{11}	16.2	X	51.22540	135.67763	142.15397	2.53029	0.1008177	0.17008003	3.2262684	20	9 23.5	20.6
404582 2013 LW_{4}	16.3	X	124.05691	116.76881	91.39466	7.71247	0.1153994	0.17888228	3.1195444	20	9 26.4	21.2
404583 2013 LH_{8}	16.8	X	350.67913	256.76173	256.81231	2.18185	0.1376076	0.24612874	2.5217063	20	—	—
404584 2013 LG_{11}	15.6	X	114.16971	182.33396	98.94898	10.70573	0.1457945	0.19501847	2.9450017	20	12 12.7	20.3
404585 2013 LS_{18}	15.9	X	9.60370	281.95605	94.71156	13.37707	0.1640542	0.18695179	3.0291188	20	12 10.6	19.6
404586 2013 LZ_{23}	16.1	X	157.56225	85.14210	107.06700	10.32463	0.0609031	0.18389706	3.0625712	20	10 11.5	20.8
404587 2013 LP_{31}	16.3	X	24.95118	190.86023	142.45547	8.98776	0.0995302	0.18112276	3.0937653	20	10 31.9	20.5
404588 2013 LE_{35}	14.7	X	304.92061	223.61443	109.83834	19.26813	0.0602901	0.14838099	3.5335985	20	6 29.1	19.6
404589 2013 MJ	15.8	X	276.81495	282.25864	135.12639	10.68700	0.0350182	0.17326833	3.1865685	20	9 13.5	20.2
404590 2013 ML_{1}	16.0	X	356.15134	168.47638	195.14734	11.75587	0.0783154	0.18317666	3.0705956	20	10 24.6	19.9
404591 2013 MM_{1}	15.8	X	108.35126	113.71092	122.44119	11.64329	0.1050359	0.18129767	3.0917751	20	10 14.8	20.7
404592 2013 MT_{2}	16.2	X	70.81901	134.36491	159.00757	11.02634	0.1453309	0.18274346	3.0754464	20	11 15.1	20.9
404593 2013 MU_{9}	16.2	X	83.35311	282.52273	37.64930	4.81916	0.1386578	0.18415794	3.0596782	20	12 25.9	21.0
404594 2013 NT_{20}	16.0	X	11.29041	305.78980	91.39372	5.72826	0.1340014	0.18117281	3.0931955	20	—	—
404595 2013 PT_{45}	18.2	X	273.46803	207.99519	219.99586	4.85326	0.1150709	0.29314265	2.2443128	20	9 26.8	20.6
404596 2013 QK_{26}	15.8	X	133.18383	197.58510	90.94878	3.02911	0.0592282	0.18453565	3.0555017	20	—	—
404597 2013 SW_{27}	16.0	X	133.85719	50.49069	316.98948	9.15451	0.1400275	0.19657993	2.9293860	20	2 1.9	20.2
404598 2013 VF_{10}	16.8	X	256.92534	135.23419	203.78184	11.95790	0.3135062	0.24097556	2.5575299	20	4 5.2	21.1
404599 2013 WN_{7}	17.0	X	227.52304	331.38822	38.32401	2.75872	0.1018669	0.23009217	2.6375548	20	5 4.2	20.8
404600 2013 WD_{27}	17.5	X	284.03084	8.11545	26.35236	3.95559	0.2032744	0.26412032	2.4058479	20	8 8.2	20.2
404601 2013 WT_{108}	17.1	X	280.89018	279.21361	143.89516	6.27834	0.2060267	0.26645030	2.3918021	20	9 15.0	19.5
404602 2013 YD_{35}	17.6	X	324.11172	51.69463	20.18072	5.58505	0.2226603	0.28290166	2.2981536	20	—	—
404603 2014 BM_{2}	15.8	X	61.22834	169.20160	305.18399	10.38072	0.0502817	0.17738439	3.1370814	20	3 1.0	20.2
404604 2014 CK_{23}	16.2	X	174.75398	43.47971	67.39097	10.28045	0.1579044	0.21613437	2.7499206	20	7 18.1	20.8
404605 2014 DR_{71}	15.9	X	337.31103	254.96736	16.22184	16.19378	0.1738114	0.17901660	3.1179837	20	5 10.6	19.7
404606 2014 DE_{120}	16.5	X	289.99609	186.70715	172.81236	3.92491	0.1101910	0.20886959	2.8133207	20	7 6.9	20.2
404607 2014 EK_{40}	16.0	X	133.07314	1.62674	109.10706	9.74927	0.0658734	0.18848691	3.0126494	20	5 31.8	20.5
404608 2014 FO_{34}	17.1	X	87.54392	200.16664	165.93689	7.37656	0.1173093	0.28103543	2.3083164	20	—	—
404609 2014 FC_{48}	16.1	X	139.05155	255.83463	354.38514	10.99868	0.1489584	0.23829504	2.5766734	20	12 3.0	20.4
404610 2014 GQ_{3}	18.0	X	274.18604	157.82665	358.69188	2.11012	0.1511738	0.27103433	2.3647570	20	—	—
404611 2014 GL_{5}	16.4	X	353.35590	189.63428	188.59311	8.99806	0.2369284	0.24300721	2.5432552	20	12 13.9	19.0
404612 2014 GB_{8}	16.1	X	309.89782	93.87231	186.61625	11.48423	0.0447352	0.17556158	3.1587583	20	5 2.9	20.5
404613 2014 GD_{8}	16.9	X	209.52962	10.12000	170.88833	10.04242	0.0697016	0.23595423	2.5936869	20	11 29.7	20.6
404614 2014 GH_{16}	16.2	X	4.00516	66.58767	172.54831	9.78642	0.0341440	0.17525461	3.1624457	20	5 24.8	20.6
404615 2014 GJ_{19}	17.2	X	62.76011	10.60774	303.47813	2.48362	0.0571380	0.23839954	2.5759204	20	11 27.9	20.6
404616 2014 GY_{19}	16.6	X	291.83556	97.23815	210.07325	10.28769	0.0563442	0.17717050	3.1396056	20	5 10.4	21.0
404617 2014 GP_{33}	17.1	X	248.72072	355.82302	235.36233	1.49734	0.1444403	0.27673361	2.3321767	20	—	—
404618 2014 GP_{36}	15.5	X	20.54243	193.42483	19.69208	21.58667	0.1530773	0.17628244	3.1501412	20	5 11.5	19.4
404619 2014 GY_{39}	17.5	X	154.22553	185.79930	137.81769	7.37645	0.1335496	0.26943873	2.3740837	20	—	—
404620 2014 GE_{40}	16.3	X	314.25192	266.02509	96.27736	7.04674	0.0581540	0.20793664	2.8217294	20	8 26.6	19.9
404621 2014 GS_{41}	17.3	X	225.02232	278.00985	241.09590	2.21072	0.0948656	0.24115287	2.5562761	20	11 16.4	20.8
404622 2014 GR_{42}	16.2	X	62.06657	143.32109	40.58999	7.30694	0.0328926	0.17694358	3.1422894	20	5 29.6	20.6
404623 2014 GP_{47}	16.5	X	188.10090	122.04465	42.66035	13.22824	0.1882582	0.23252204	2.6191475	20	10 8.5	20.8
404624 2014 GQ_{48}	16.1	X	280.13935	179.55405	163.19706	9.70972	0.0293252	0.18917890	3.0052983	20	6 13.7	20.4
404625 2014 GD_{49}	17.9	X	253.17327	262.03649	168.44756	23.43814	0.1020256	0.37778677	1.8951266	20	9 16.7	19.3
404626 2014 HU	16.7	X	131.08225	217.62300	45.16092	10.04391	0.2215635	0.23075539	2.6324986	20	12 11.1	21.3
404627 2014 HW_{1}	16.8	X	118.29195	300.37168	19.88405	6.92495	0.1148250	0.25787536	2.4445344	20	—	—
404628 2014 HL_{6}	16.7	X	39.06247	239.77405	97.36718	5.74811	0.0744575	0.23222589	2.6213738	20	11 29.8	20.1
404629 2014 HC_{7}	17.2	X	344.56445	282.94727	148.44281	5.36614	0.0975745	0.25654107	2.4530032	20	—	—
404630 2014 HE_{9}	17.3	X	59.95942	197.01517	182.65017	5.82810	0.1253579	0.26125038	2.4234353	20	—	—
404631 2014 HT_{9}	17.4	X	207.33830	262.24909	49.45764	6.77566	0.2711166	0.28559227	2.2836967	20	1 29.6	21.5
404632 2014 HB_{11}	16.0	X	50.00019	70.96092	149.10840	17.35232	0.0972036	0.17897626	3.1184523	20	7 8.8	20.4
404633 2014 HP_{12}	16.7	X	99.88976	336.77815	197.66500	1.79215	0.0161810	0.18868017	3.0105918	20	7 4.2	20.9
404634 2014 HD_{13}	16.6	X	142.16236	270.46462	208.57773	9.97362	0.0525298	0.18391246	3.0624002	20	6 18.7	21.3
404635 2014 HL_{13}	15.3	X	270.78083	79.27682	155.58109	3.06265	0.1734056	0.12691199	3.9216390	20	1 10.9	21.3
404636 2014 HQ_{13}	17.7	X	203.14670	162.49320	100.61597	2.29206	0.1589451	0.26773448	2.3841478	20	—	—
404637 2014 HY_{15}	17.1	X	42.19430	269.76182	34.75905	5.89795	0.0508134	0.21926790	2.7236586	20	10 16.5	20.7
404638 2014 HT_{16}	17.5	X	116.54292	341.97992	0.09078	0.96915	0.2018404	0.26437596	2.4042968	20	—	—
404639 2014 HQ_{17}	17.7	X	251.31485	248.76183	321.45882	1.00716	0.1323069	0.27449605	2.3448334	20	—	—
404640 2014 HL_{19}	18.2	X	322.97030	124.63186	6.72835	1.81776	0.1318578	0.27718773	2.3296287	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404641 2014 HR_{20}	17.2	X	325.22307	110.71860	306.51733	1.60049	0.0433723	0.23900674	2.5715558	20	11 28.4	20.2
404642 2014 HN_{25}	16.7	X	221.29824	80.94322	42.46539	11.93496	0.1492098	0.22818065	2.6522645	20	9 23.7	20.7
404643 2014 HX_{27}	16.6	X	336.32720	243.64029	60.81886	1.50739	0.1662502	0.18554696	3.0443891	20	6 30.9	19.7
404644 2014 HE_{29}	18.3	X	285.28418	91.09156	68.36529	3.12915	0.1678562	0.27275146	2.3548215	20	—	—
404645 2014 HT_{30}	17.1	X	174.25968	146.45455	172.48271	6.63176	0.1255858	0.27990564	2.3145236	20	1 1.6	20.6
404646 2014 HV_{32}	16.7	X	100.53234	203.76244	62.21699	9.70483	0.0957148	0.22563025	2.6722135	20	11 13.7	20.7
404647 2014 HA_{34}	16.2	X	320.48128	144.68916	177.81965	11.76954	0.1582048	0.18338641	3.0682538	20	6 26.9	20.1
404648 2014 HB_{35}	16.7	X	42.15395	161.99821	82.83853	6.56701	0.1614056	0.18966578	3.0001529	20	8 11.9	20.5
404649 2014 HR_{37}	16.2	X	245.35809	222.81409	162.34495	10.13084	0.1062316	0.18368497	3.0649282	20	6 13.9	20.9
404650 2014 HX_{38}	17.4	X	126.68223	118.70371	124.77691	5.40978	0.0403095	0.22880149	2.6474646	20	11 13.0	21.2
404651 2014 HL_{40}	17.5	X	246.89667	125.61116	104.84963	4.52707	0.1858630	0.28123703	2.3072131	20	—	—
404652 2014 HQ_{42}	18.1	X	252.12141	73.41335	227.62973	4.81914	0.2121781	0.29969810	2.2114649	20	2 16.6	21.7
404653 2014 HT_{42}	15.5	X	244.86488	231.37555	38.30173	7.26841	0.2015132	0.12333503	3.9971007	20	1 26.8	21.9
404654 2014 HG_{43}	16.0	X	67.52924	314.89488	186.81601	16.98512	0.1707008	0.17666633	3.1455761	20	5 5.9	20.3
404655 2014 HN_{44}	17.0	X	115.07343	326.32043	202.51836	11.81785	0.0695376	0.19822796	2.9131272	20	7 20.4	21.4
404656 2014 HZ_{65}	16.8	X	241.27953	38.37912	71.62403	5.74150	0.0405209	0.22706309	2.6609600	20	10 12.4	20.3
404657 2014 HX_{66}	16.1	X	215.01851	304.63149	99.53661	5.69536	0.1542679	0.18669831	3.0318598	20	6 1.5	20.9
404658 2014 HA_{86}	17.3	X	38.22285	291.26962	66.95217	9.01476	0.1628201	0.23950083	2.5680178	20	—	—
404659 2014 HJ_{94}	17.0	X	87.92537	252.39585	55.35917	15.40132	0.1200006	0.23725098	2.5842273	20	12 24.0	21.1
404660 2014 HC_{122}	17.6	X	275.29940	354.11387	176.69165	5.00899	0.1427524	0.27018569	2.3697061	20	—	—
404661 2014 HZ_{122}	16.4	X	153.26324	340.59821	221.84488	12.45368	0.0907465	0.22872070	2.6480879	20	10 19.5	20.3
404662 2014 HQ_{123}	17.5	X	274.45085	263.05976	105.72252	24.80344	0.0494965	0.35149408	1.9884929	20	7 16.3	19.2
404663 2014 HW_{124}	16.4	X	153.95799	44.82696	165.48676	12.07481	0.1251373	0.22779754	2.6552374	20	11 2.5	20.7
404664 2014 HT_{125}	17.1	X	13.12008	141.53132	153.74940	2.51651	0.0427676	0.20319540	2.8654541	20	8 20.2	20.6
404665 2014 HT_{126}	16.2	X	127.43526	310.22682	211.43568	8.13429	0.0675955	0.19923639	2.9032890	20	7 25.9	20.6
404666 2014 HE_{129}	17.5	X	223.38747	133.23785	82.68460	4.54746	0.1866331	0.25871457	2.4392452	20	—	—
404667 2014 HO_{137}	18.0	X	308.80744	16.62805	112.13241	3.01823	0.1627314	0.27068812	2.3667729	20	—	—
404668 2014 HH_{147}	17.0	X	20.62518	271.45926	89.12363	0.75311	0.1697280	0.24342715	2.5403294	20	12 22.2	20.1
404669 2014 HK_{149}	16.4	X	52.32359	320.26832	223.34327	4.77546	0.0847395	0.17110758	3.2133390	20	5 24.0	20.6
404670 2014 HD_{151}	19.3	X	281.63104	69.13993	241.97761	1.74726	0.2469976	0.31578561	2.1357045	20	3 26.0	22.1
404671 2014 HV_{152}	17.7	X	322.90849	265.94891	257.53045	2.06284	0.1154347	0.28539280	2.2847606	20	—	—
404672 2014 HC_{155}	16.2	X	352.24814	185.85510	91.90910	2.42501	0.1508165	0.18043920	3.1015738	20	6 24.6	19.6
404673 2014 HP_{157}	17.0	X	50.53332	174.86358	119.29729	6.85863	0.0311460	0.21772893	2.7364780	20	10 13.6	20.7
404674 2014 HK_{161}	15.5	X	287.36459	269.41312	88.15267	10.34126	0.0887470	0.18693841	3.0292633	20	7 3.2	19.5
404675 2014 HM_{161}	17.4	X	59.98436	303.18528	113.23262	5.98017	0.1946479	0.27905674	2.3192151	20	—	—
404676 2014 HC_{163}	15.7	X	353.86954	128.20762	109.57247	8.88266	0.0510538	0.16965149	3.2316991	20	5 10.0	20.1
404677 2014 HU_{164}	16.2	X	62.13408	152.04418	171.05210	29.76349	0.0125302	0.23391709	2.6087237	20	12 5.1	20.4
404678 2014 HW_{164}	16.1	X	90.39014	78.22263	169.80156	15.19312	0.1182737	0.20678690	2.8321790	20	10 12.5	20.4
404679 2014 HP_{168}	17.6	X	219.40640	185.00181	11.90927	0.13510	0.0334729	0.24770819	2.5109755	20	—	—
404680 2014 HQ_{168}	18.2	X	233.98148	354.91022	229.84585	0.90153	0.1027380	0.26633629	2.3924846	20	—	—
404681 2014 HT_{168}	16.2	X	338.88265	140.36124	158.50111	11.69903	0.0756681	0.18019590	3.1043651	20	7 2.6	20.3
404682 2014 HX_{168}	16.6	X	133.28435	32.99727	202.05318	13.20187	0.2044630	0.22359664	2.6883917	20	11 11.6	21.2
404683 2014 HJ_{170}	13.9	X	305.72480	321.84502	103.00430	9.39962	0.1010236	0.08287989	5.2099867	20	10 9.9	20.5
404684 2014 HK_{171}	17.0	X	201.43507	180.33352	88.18970	7.76603	0.1339721	0.27251594	2.3561781	20	—	—
404685 2014 HR_{171}	16.0	X	342.08824	169.51615	89.28706	10.21883	0.0322034	0.17540403	3.1606496	20	5 20.1	20.4
404686 2014 HA_{179}	15.6	X	280.10870	238.52383	123.04148	11.41590	0.1290364	0.18035480	3.1025413	20	6 22.7	19.9
404687 2014 HL_{179}	16.3	X	186.84189	328.27180	206.60625	11.96523	0.1524069	0.23072638	2.6327192	20	10 17.4	20.5
404688 2014 HW_{179}	18.0	X	217.38075	88.64325	134.25640	2.88169	0.1586101	0.26592310	2.3949622	20	—	—
404689 2014 HL_{180}	16.9	X	107.17006	61.79742	166.38885	2.64282	0.2387652	0.21217010	2.7840686	20	10 13.3	21.5
404690 2014 HR_{181}	17.4	X	50.14388	331.17418	141.65191	6.67346	0.0502747	0.29976341	2.2111437	20	1 27.4	19.6
404691 2014 HW_{182}	16.1	X	279.99747	126.26366	189.29826	9.93573	0.0790318	0.17556665	3.1586975	20	5 3.2	20.5
404692 2014 HC_{184}	16.3	X	353.34167	70.07594	190.77030	4.17203	0.0951134	0.17099017	3.2148098	20	6 4.5	20.3
404693 2014 HW_{184}	15.4	X	219.70544	180.65647	217.29001	15.25751	0.0737553	0.17347172	3.1840772	20	6 3.8	20.3
404694 2014 HJ_{185}	16.6	X	171.59798	135.34395	97.39371	6.76626	0.1732617	0.24074146	2.5591876	20	12 13.0	20.7
404695 2014 HP_{186}	15.9	X	314.88459	247.83961	78.75583	18.12145	0.2181389	0.17889422	3.1194056	20	6 13.9	19.4
404696 2014 HS_{186}	17.1	X	82.02281	168.32341	108.61754	4.40004	0.1188708	0.22025906	2.7154816	20	11 9.4	21.0
404697 2014 HF_{187}	17.8	X	182.74274	170.87794	112.96049	2.46783	0.1778577	0.26225334	2.4172526	20	—	—
404698 2014 HD_{188}	17.4	X	133.83699	194.74849	153.99140	6.97130	0.1393540	0.27763751	2.3271120	20	—	—
404699 2014 HH_{190}	17.7	X	17.89357	311.56077	133.56117	1.60496	0.1268329	0.27033438	2.3688371	20	—	—
404700 2014 JQ	15.7	X	264.47961	181.87241	194.43027	9.35849	0.0826742	0.18030043	3.1031650	20	6 27.2	20.3
404701 2014 JF_{2}	17.0	X	190.24801	92.67623	98.00194	4.68213	0.1423558	0.23463638	2.6033895	20	11 12.0	21.0
404702 2014 JM_{2}	17.7	X	75.75388	183.46637	77.12568	23.76603	0.0388097	0.37413001	1.9074552	20	11 8.8	20.0
404703 2014 JL_{3}	17.6	X	222.52961	25.96617	194.38206	2.46473	0.1333073	0.26103875	2.4247450	20	—	—
404704 2014 JN_{3}	17.9	X	318.45975	57.77832	112.13036	5.76299	0.0941999	0.28274749	2.2989889	20	—	—
404705 2014 JQ_{3}	15.7	X	218.69594	313.28360	91.86465	11.50739	0.0665802	0.17625742	3.1504392	20	6 12.5	20.3
404706 2014 JV_{3}	16.4	X	88.75827	199.13011	93.30806	14.89869	0.1083286	0.22691519	2.6621162	20	12 5.8	20.5
404707 2014 JM_{5}	17.4	X	88.76954	180.15024	141.88832	4.33652	0.0989695	0.23812997	2.5778640	20	—	—
404708 2014 JT_{5}	16.3	X	101.36074	214.27344	83.28934	14.84396	0.2437966	0.22650820	2.6653041	20	12 29.5	20.9
404709 2014 JN_{6}	17.8	X	260.78072	48.63079	118.11932	3.64402	0.1192740	0.25607356	2.4559879	20	—	—
404710 2014 JO_{6}	17.4	X	130.03700	80.79226	162.57385	4.31918	0.0606446	0.22538104	2.6741830	20	11 16.0	21.4
404711 2014 JQ_{6}	16.1	X	347.97844	299.46970	67.60702	7.14769	0.0399007	0.21777452	2.7360961	20	10 23.5	19.6
404712 2014 JH_{7}	16.4	X	11.41242	206.82074	74.64287	7.03569	0.1485989	0.18534150	3.0466386	20	8 8.1	20.0
404713 2014 JX_{7}	16.5	X	319.07649	235.28416	97.13394	3.94249	0.1006704	0.18538233	3.0461912	20	7 15.5	20.3
404714 2014 JB_{8}	18.2	X	356.62997	43.99496	74.97094	6.02874	0.1489559	0.28154897	2.3055086	20	—	—
404715 2014 JM_{8}	17.5	X	182.24244	99.47035	114.65546	3.16418	0.1050867	0.23820318	2.5773358	20	12 5.5	21.4
404716 2014 JK_{10}	15.9	X	284.62887	275.04516	67.56501	11.67257	0.0545868	0.17561952	3.1580635	20	6 13.9	20.2
404717 2014 JZ_{10}	17.8	X	175.56937	87.51069	160.85706	4.25308	0.0959109	0.24834766	2.5066633	20	—	—
404718 2014 JO_{13}	16.3	X	55.46168	184.90527	102.63426	6.10012	0.0797344	0.21006217	2.8026626	20	10 16.9	20.2
404719 2014 JW_{13}	17.5	X	234.61529	75.41921	93.12266	5.39225	0.1097194	0.24603715	2.5223321	20	12 10.2	20.6
404720 2014 JA_{14}	16.9	X	274.56016	35.91542	86.33511	7.14616	0.0757942	0.24215658	2.5492076	20	12 9.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404721 2014 JJ_{14}	17.4	X	250.94828	120.37616	110.47755	4.33931	0.1531215	0.27646130	2.3337079	20	—	—
404722 2014 JT_{14}	17.4	X	154.30112	276.01327	69.84572	8.61560	0.2097691	0.27543644	2.3394932	20	1 25.8	21.0
404723 2014 JG_{17}	15.4	X	4.40349	179.19497	92.10091	10.82977	0.0417644	0.17660170	3.1463435	20	7 4.5	19.5
404724 2014 JU_{18}	17.5	X	279.67566	25.70200	92.65932	1.98726	0.1369862	0.25342718	2.4730559	20	12 9.1	19.8
404725 2014 JJ_{19}	16.1	X	88.18738	97.28325	68.06878	10.78804	0.0872716	0.18385363	3.0630535	20	6 17.2	20.5
404726 2014 JR_{19}	16.3	X	95.44658	289.11837	184.78869	13.85767	0.2661488	0.17475370	3.1684861	20	5 18.2	21.3
404727 2014 JZ_{20}	18.0	X	177.51659	140.92991	138.67323	3.87282	0.1765636	0.25937796	2.4350843	20	—	—
404728 2014 JB_{21}	16.4	X	45.90715	170.73472	59.13654	2.96447	0.0296196	0.19547431	2.9404215	20	7 8.3	20.4
404729 2014 JM_{21}	15.7	X	323.43793	212.14109	112.76885	9.33433	0.0633013	0.18301657	3.0723860	20	7 15.3	19.6
404730 2014 JN_{21}	17.0	X	113.65992	80.61988	179.60108	12.51855	0.2475956	0.22379530	2.6868004	20	11 27.5	21.9
404731 2014 JJ_{22}	18.0	X	284.48081	108.38763	133.22325	3.09830	0.1717399	0.29342032	2.2428966	20	1 9.5	21.2
404732 2014 JX_{22}	16.9	X	246.08578	3.91732	142.13791	4.60730	0.1612760	0.24048877	2.5609799	20	11 18.2	20.1
404733 2014 JY_{22}	17.3	X	224.48496	129.69662	106.40491	5.15254	0.1597782	0.26362058	2.4088874	20	—	—
404734 2014 JE_{23}	16.2	X	224.70231	77.09756	76.65579	14.04036	0.1140358	0.23203497	2.6228115	20	11 8.7	19.9
404735 2014 JJ_{23}	15.6	X	348.93837	205.13427	99.55550	9.96185	0.0813764	0.18063795	3.0992984	20	7 27.4	19.5
404736 2014 JK_{23}	16.9	X	206.89197	115.18638	117.81143	6.79584	0.0804875	0.25230679	2.4803716	20	—	—
404737 2014 JV_{25}	17.3	X	271.39346	245.09980	134.55465	23.96121	0.1110973	0.35512574	1.9749129	20	7 18.2	19.4
404738 2014 JD_{26}	16.3	X	49.82172	95.50561	85.68990	26.15529	0.2548723	0.17128857	3.2110750	20	6 11.9	20.1
404739 2014 JG_{26}	16.9	X	153.95361	225.11113	111.99997	15.63684	0.2709983	0.26451107	2.4034780	20	1 19.9	20.8
404740 2014 JL_{26}	16.7	X	226.78637	72.41467	84.99193	28.31185	0.1490323	0.24273643	2.5451463	20	11 18.7	20.6
404741 2014 JA_{27}	15.7	X	290.45369	261.89767	85.84596	20.48846	0.2422664	0.17597454	3.1538145	20	6 2.8	20.0
404742 2014 JN_{28}	15.7	X	333.68162	209.95752	108.10646	19.66524	0.2096860	0.17721686	3.1390581	20	7 10.7	18.7
404743 2014 JN_{29}	16.4	X	241.40347	27.29647	111.29470	16.27693	0.1413597	0.24205103	2.5499486	20	11 10.9	20.1
404744 2014 JD_{31}	17.1	X	299.51889	252.65203	87.53305	26.23192	0.0831870	0.36052993	1.9551279	20	7 6.3	18.7
404745 2014 JF_{31}	15.6	X	267.24979	271.23606	108.86196	11.07341	0.1043905	0.18070864	3.0984901	20	7 3.2	19.9
404746 2014 JG_{31}	15.9	X	298.46474	259.24077	57.02683	11.88827	0.0452824	0.17680747	3.1439019	20	5 30.5	20.3
404747 2014 JO_{32}	17.1	X	84.92449	238.22510	22.01756	4.90048	0.0297443	0.21725488	2.7404572	20	10 10.3	20.7
404748 2014 JQ_{32}	17.1	X	132.52221	100.04140	174.26150	12.96463	0.2662104	0.23217312	2.6217710	20	12 26.4	22.1
404749 2014 JW_{32}	17.6	X	245.79116	207.40432	53.59261	7.27804	0.1518302	0.28213591	2.3023100	20	—	—
404750 2014 JV_{33}	16.5	X	337.19134	122.61644	195.10639	15.26757	0.2080105	0.17811896	3.1284505	20	7 14.9	20.1
404751 2014 JJ_{34}	17.5	X	331.39008	67.16271	86.31131	6.90442	0.0404358	0.27692990	2.3310745	20	—	—
404752 2014 JN_{34}	16.8	X	164.01375	330.62657	211.70498	9.19476	0.0764562	0.21552026	2.7551419	20	10 3.9	21.0
404753 2014 JF_{35}	16.6	X	11.61941	150.52902	131.51655	5.74539	0.1168368	0.18133029	3.0914044	20	8 3.7	20.3
404754 2014 JQ_{35}	18.1	X	212.67683	260.10142	67.37659	4.86817	0.1624984	0.29575654	2.2310697	20	2 21.0	21.5
404755 2014 JD_{37}	17.0	X	129.53502	203.05541	79.22920	6.43119	0.1619923	0.23959004	2.5673803	20	—	—
404756 2014 JH_{37}	16.8	X	24.58466	153.96997	162.59302	4.67063	0.0635029	0.21067175	2.7972536	20	10 8.8	20.3
404757 2014 JX_{37}	16.9	X	25.84835	214.85944	121.99709	5.53704	0.1345806	0.21465444	2.7625456	20	11 17.5	20.4
404758 2014 JG_{38}	17.5	X	146.05428	153.52466	123.08679	6.22524	0.1515752	0.24348767	2.5399084	20	—	—
404759 2014 JL_{38}	15.8	X	35.43849	150.18178	91.39221	11.25096	0.1600370	0.18099137	3.0952624	20	7 25.8	19.6
404760 2014 JG_{39}	17.2	X	254.94674	153.16845	69.39908	3.71301	0.1561979	0.27590204	2.3368604	20	—	—
404761 2014 JQ_{39}	17.8	X	144.73961	226.76496	98.81774	8.25689	0.0385132	0.26730649	2.3866920	20	—	—
404762 2014 JL_{40}	17.5	X	173.97150	210.12131	108.08322	7.15351	0.1365802	0.27590577	2.3368394	20	1 2.4	20.7
404763 2014 JC_{41}	17.3	X	137.47642	171.36286	80.09639	4.56141	0.0723533	0.23149625	2.6268791	20	12 4.3	21.2
404764 2014 JV_{41}	16.8	X	135.43558	142.22360	61.47850	2.45154	0.0123618	0.21191960	2.7862621	20	9 29.1	20.5
404765 2014 JM_{42}	15.8	X	103.75655	85.39743	92.53007	11.26102	0.0448195	0.18506831	3.0496360	20	7 18.1	20.2
404766 2014 JN_{42}	17.6	X	352.52441	44.84324	96.85501	6.56829	0.1039072	0.28496985	2.2870208	20	—	—
404767 2014 JW_{42}	16.0	X	32.29144	200.87070	96.70133	11.25919	0.1127511	0.19949848	2.9007457	20	10 4.8	19.9
404768 2014 JA_{43}	17.8	X	221.96420	118.44916	172.20634	6.79934	0.1688359	0.28061909	2.3105990	20	1 13.1	21.5
404769 2014 JG_{43}	17.7	X	304.57963	38.18849	155.84352	3.52799	0.1059942	0.28377202	2.2934521	20	—	—
404770 2014 JL_{43}	16.5	X	192.18074	111.17599	83.56853	13.39612	0.2441843	0.23739748	2.5831640	20	11 13.3	20.9
404771 2014 JO_{43}	16.1	X	90.84448	180.28973	88.68193	14.04294	0.1752786	0.21290676	2.7776429	20	11 15.1	20.6
404772 2014 JP_{43}	15.7	X	2.70179	227.57911	84.19462	18.79134	0.2435917	0.18371542	3.0645895	20	9 21.6	19.3
404773 2014 JW_{44}	15.7	X	244.92745	328.49534	48.64153	11.64680	0.0210459	0.17968183	3.1102833	20	6 11.8	20.1
404774 2014 JF_{46}	17.1	X	242.57297	113.77261	41.53882	4.35701	0.0670242	0.24456623	2.5324355	20	12 9.0	20.2
404775 2014 JH_{46}	15.8	X	323.49892	249.50077	90.63200	11.08164	0.1696691	0.18485811	3.0519474	20	7 27.8	19.3
404776 2014 JO_{46}	17.0	X	255.48106	122.55528	110.38974	5.15231	0.1388631	0.27805990	2.3247547	20	—	—
404777 2014 JP_{46}	16.9	X	186.03162	61.60625	136.98141	5.02956	0.1828051	0.23572838	2.5953433	20	11 14.9	21.1
404778 2014 JP_{47}	16.9	X	89.57051	153.65832	192.88330	8.55427	0.1735359	0.23998590	2.5645562	20	—	—
404779 2014 JU_{49}	17.2	X	84.31729	130.17139	150.42776	8.90035	0.0618939	0.21825925	2.7320435	20	11 11.2	21.2
404780 2014 JW_{49}	16.8	X	104.68982	115.41608	118.98938	11.95803	0.2620548	0.20912265	2.8110506	20	10 24.3	21.8
404781 2014 JE_{50}	17.6	X	103.11189	258.31933	121.70915	7.49701	0.1206670	0.27068970	2.3667637	20	—	—
404782 2014 JJ_{50}	17.3	X	323.33727	62.71300	150.03043	5.56559	0.0117726	0.29893107	2.2152463	20	2 11.4	19.6
404783 2014 JN_{50}	16.7	X	115.20630	253.56546	79.88667	15.26181	0.1405634	0.25176107	2.4839546	20	—	—
404784 2014 JJ_{51}	17.9	X	175.77109	111.92201	160.04667	1.55302	0.1622647	0.25666240	2.4522301	20	—	—
404785 2014 JW_{51}	17.0	X	150.94850	257.07895	109.38765	4.41299	0.0955784	0.29040977	2.2583707	20	2 2.3	19.8
404786 2014 JB_{52}	16.6	X	265.68265	29.78723	226.03943	23.67563	0.2176776	0.29035062	2.2586774	20	1 1.4	20.7
404787 2014 JC_{52}	19.2	X	244.65828	161.69737	112.32330	2.41796	0.2597668	0.28493785	2.2871920	20	1 9.9	23.2
404788 2014 JT_{52}	16.6	X	40.59837	175.99275	72.42401	0.74466	0.1464394	0.18607876	3.0385859	20	8 9.8	20.2
404789 2014 JR_{53}	16.6	X	32.75473	208.13227	63.68955	8.14797	0.2409555	0.18822005	3.0154963	20	9 17.5	20.3
404790 2014 JB_{54}	16.2	X	232.54035	263.24738	163.38459	15.94546	0.0358208	0.18635782	3.0355517	20	7 27.9	20.8
404791 2014 JO_{54}	17.9	X	275.00110	290.00944	109.59123	23.97114	0.0751861	0.36042203	1.9555181	20	9 16.4	20.2
404792 2014 JS_{59}	16.2	X	266.16371	320.87986	67.45489	25.02216	0.0654799	0.19044837	2.9919285	20	7 20.2	20.8
404793 2014 JT_{59}	17.5	X	236.73448	217.41449	97.81024	7.92631	0.1799950	0.29877920	2.2159969	20	2 27.7	21.0
404794 2014 JU_{59}	16.7	X	187.76892	279.21330	185.09034	8.89738	0.0421398	0.18983967	2.9983206	20	7 21.7	21.2
404795 2014 JX_{59}	16.4	X	332.29787	247.90878	97.53226	11.80966	0.0431736	0.19748701	2.9204091	20	9 1.0	20.4
404796 2014 JG_{60}	15.0	X	69.00449	119.42108	69.05801	17.42370	0.0939523	0.17581740	3.1556935	20	6 22.4	19.4
404797 2014 JH_{60}	17.8	X	159.72351	220.65135	73.56833	7.81590	0.1408575	0.25638318	2.4540102	20	—	—
404798 2014 JQ_{60}	16.8	X	112.28501	25.45933	217.61616	7.45217	0.1694890	0.21747886	2.7385752	20	10 31.3	21.1
404799 2014 JV_{60}	16.2	X	64.19082	256.17790	99.29093	15.45330	0.1310922	0.24075515	2.5590906	20	—	—
404800 2014 JW_{60}	16.5	X	45.57520	225.66232	93.88220	10.48818	0.1475539	0.21345116	2.7729180	20	11 23.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404801 2014 JC_{61}	15.5	X	29.46118	1.59883	250.52348	11.31205	0.1095490	0.18197038	3.0841507	20	7 19.6	19.6
404802 2014 JO_{61}	17.2	X	163.85950	143.71586	170.41601	11.53336	0.2968273	0.25553768	2.4594203	20	1 2.7	21.6
404803 2014 JQ_{61}	16.2	X	298.50496	231.56411	145.05846	11.05811	0.1207257	0.18836276	3.0139730	20	8 8.9	20.1
404804 2014 JR_{62}	17.4	X	93.33924	199.10629	192.86527	5.36385	0.1358615	0.27165436	2.3611574	20	—	—
404805 2014 JS_{62}	16.4	X	133.81201	354.52965	201.43503	9.41818	0.0988492	0.21005883	2.8026923	20	9 18.3	20.6
404806 2014 JJ_{63}	15.8	X	315.67184	228.39844	93.66845	23.02465	0.0450859	0.18225221	3.0809703	20	7 1.4	19.8
404807 2014 JS_{63}	17.9	X	266.81309	24.45632	185.29298	2.55619	0.1259675	0.27689428	2.3312744	20	—	—
404808 2014 JU_{64}	17.8	X	189.21331	212.65363	62.94273	2.03555	0.1655076	0.26317665	2.4115956	20	—	—
404809 2014 JY_{64}	16.9	X	59.93995	329.63496	65.80036	12.83087	0.1235233	0.26292754	2.4131186	20	—	—
404810 2014 JX_{65}	17.3	X	104.60897	153.12950	153.82827	6.68768	0.1397239	0.23768724	2.5810642	20	—	—
404811 2014 JZ_{65}	17.8	X	157.39736	282.01001	104.40354	5.14623	0.1243550	0.30154820	2.2024103	20	3 11.1	20.9
404812 2014 JB_{67}	16.0	X	129.85852	49.42720	87.78047	12.02629	0.0280575	0.17873854	3.1212167	20	6 25.1	20.4
404813 2014 JM_{67}	16.9	X	177.10081	54.29641	183.20510	3.30767	0.1877945	0.24351577	2.5397130	20	12 22.9	21.0
404814 2014 JT_{67}	17.6	X	234.17494	170.56218	66.41589	3.39430	0.1524857	0.27106619	2.3645717	20	—	—
404815 2014 JD_{68}	17.2	X	120.64849	107.06374	107.46048	5.08022	0.1351183	0.21147102	2.7902009	20	10 4.4	21.6
404816 2014 JM_{68}	16.9	X	172.75240	129.84556	70.90381	14.19630	0.0606372	0.22715340	2.6602547	20	11 12.1	20.8
404817 2014 JE_{70}	18.0	X	235.49524	265.72932	333.70754	0.78319	0.1466877	0.27200254	2.3591420	20	—	—
404818 2014 JW_{70}	16.4	X	356.79950	309.67616	23.78577	2.13796	0.0947604	0.20223143	2.8745527	20	9 20.3	19.7
404819 2014 JZ_{70}	18.1	X	272.71398	270.38070	349.75588	2.93998	0.1473181	0.29606063	2.2295418	20	1 23.9	21.1
404820 2014 JL_{72}	17.6	X	318.26280	88.77640	34.95475	3.67863	0.0445578	0.25825478	2.4421395	20	—	—
404821 2014 JM_{72}	16.9	X	87.92453	27.83419	254.48317	2.48331	0.1689976	0.21764272	2.7372005	20	11 24.6	21.2
404822 2014 JN_{72}	17.1	X	133.05060	26.00229	243.33836	6.86758	0.0292326	0.23708275	2.5854496	20	12 22.5	20.7
404823 2014 JE_{73}	15.9	X	88.52358	192.81733	65.42660	15.82634	0.1361531	0.21059972	2.7978914	20	10 28.2	20.3
404824 2014 JQ_{73}	17.8	X	165.05792	240.44425	72.69184	4.16339	0.1387935	0.26599730	2.3945168	20	—	—
404825 2014 JC_{74}	15.9	X	338.71359	81.59779	228.97851	7.35987	0.1727071	0.17908751	3.1171606	20	7 11.8	19.4
404826 2014 JE_{74}	18.1	X	245.48563	86.21518	143.49987	0.72234	0.1703041	0.27244731	2.3565737	20	—	—
404827 2014 JP_{74}	16.6	X	0.17861	77.45143	217.80616	10.58687	0.2163018	0.18227484	3.0807153	20	8 3.3	19.9
404828 2014 JO_{75}	17.2	X	241.32786	323.22887	289.60100	3.19900	0.1569190	0.27853940	2.3220859	20	—	—
404829 2014 JB_{76}	17.7	X	126.97553	188.76478	117.79412	0.50699	0.1752155	0.24376987	2.5379479	20	—	—
404830 2014 JH_{76}	17.8	X	189.23576	243.16670	47.09240	2.16653	0.1786612	0.26724540	2.3870557	20	—	—
404831 2014 JK_{76}	17.7	X	204.96684	14.39111	251.67898	1.75640	0.1741418	0.26584970	2.3954031	20	—	—
404832 2014 JL_{76}	17.2	X	246.10716	347.49946	237.10447	2.97346	0.1324003	0.27019895	2.3696286	20	—	—
404833 2014 JM_{76}	18.0	X	220.08466	67.00829	198.04825	2.01567	0.1832233	0.27168770	2.3609642	20	—	—
404834 2014 JK_{77}	17.1	X	220.50299	166.15055	78.08215	3.96932	0.1352941	0.26602277	2.3943640	20	—	—
404835 2014 JN_{77}	18.3	X	248.03604	65.01834	223.04248	5.04472	0.0939053	0.29633364	2.2281721	20	2 4.2	21.4
404836 2014 JR_{77}	16.5	X	303.66077	207.78450	158.43607	2.45595	0.1114773	0.19584892	2.9366707	20	8 5.1	20.1
404837 2014 JW_{77}	15.0	X	14.00798	166.18720	86.54684	18.49031	0.1116208	0.17764062	3.1340641	20	6 27.5	18.8
404838 2014 JB_{78}	17.0	X	129.97936	87.15703	167.05492	13.01766	0.2510611	0.22461306	2.6802752	20	12 2.8	22.0
404839 2014 JC_{78}	16.0	X	106.87083	29.32047	132.63324	16.26603	0.0251206	0.17953798	3.1119444	20	6 28.8	20.6
404840 2014 KQ_{1}	18.0	X	243.91951	122.54393	139.17441	2.86025	0.1741915	0.28501617	2.2867730	20	—	—
404841 2014 KW_{2}	16.1	X	47.80737	108.13292	117.22833	11.77232	0.0726175	0.18413051	3.0599820	20	7 9.6	20.2
404842 2014 KO_{3}	16.9	X	75.96766	218.15590	79.07183	7.56663	0.1011610	0.21875117	2.7279462	20	11 24.7	20.9
404843 2014 KZ_{4}	17.2	X	193.74493	171.00529	134.71722	1.92756	0.1892699	0.27256788	2.3558787	20	1 9.1	21.0
404844 2014 KG_{5}	16.9	X	73.03553	249.74613	94.91879	15.71767	0.1629281	0.23977898	2.5660314	20	—	—
404845 2014 KD_{12}	17.6	X	164.54023	262.14311	68.58763	6.02734	0.0523574	0.27617982	2.3352932	20	—	—
404846 2014 KL_{12}	17.7	X	227.33987	184.73258	81.94066	4.47251	0.0586524	0.27712306	2.3299912	20	—	—
404847 2014 KA_{13}	16.0	X	330.02913	221.79908	99.29310	2.31604	0.1935900	0.17608172	3.1525346	20	7 8.9	19.5
404848 2014 KM_{15}	17.0	X	103.29215	81.75324	164.31707	4.19382	0.0505148	0.21480875	2.7612225	20	10 17.6	21.0
404849 2014 KQ_{15}	15.2	X	81.51096	297.94826	228.53153	21.54953	0.1826476	0.17747870	3.1359700	20	6 21.7	20.0
404850 2014 KS_{15}	16.1	X	4.51890	172.28010	138.16403	2.44967	0.0803241	0.19362835	2.9590803	20	8 29.8	19.6
404851 2014 KT_{15}	17.9	X	312.26774	85.17794	83.98063	4.95836	0.1555972	0.28040489	2.3117755	20	—	—
404852 2014 KK_{16}	17.8	X	251.74471	91.30200	176.25825	2.90081	0.1267638	0.28746297	2.2737783	20	1 13.3	21.0
404853 2014 KL_{16}	16.3	X	76.04716	350.93682	222.78092	10.55940	0.1056879	0.18844285	3.0131189	20	8 3.0	20.7
404854 2014 KM_{16}	17.1	X	93.35362	218.46926	94.76849	5.25350	0.2008621	0.22982096	2.6396294	20	—	—
404855 2014 KT_{16}	15.5	X	357.97519	58.86125	221.55082	10.19116	0.1781256	0.17598405	3.1537010	20	7 7.6	19.1
404856 2014 KB_{17}	16.1	X	22.26786	184.16227	78.32731	11.53264	0.1749195	0.18096506	3.0955624	20	8 4.5	19.8
404857 2014 KF_{17}	16.1	X	236.14996	10.73671	73.87173	13.93900	0.0767625	0.20331540	2.8643266	20	8 29.1	20.5
404858 2014 KC_{18}	17.5	X	297.77592	336.01663	194.91656	6.00159	0.0693770	0.27105133	2.3646581	20	—	—
404859 2014 KF_{20}	15.6	X	308.70081	198.76723	136.84463	14.98946	0.0983159	0.17750809	3.1356238	20	7 3.4	19.8
404860 2014 KO_{20}	16.1	X	316.19175	234.96162	102.81215	15.08901	0.1405748	0.17978494	3.1090939	20	7 12.9	19.8
404861 2014 KX_{20}	16.6	X	120.15974	124.76961	148.60989	12.03456	0.1796455	0.22589879	2.6700954	20	12 15.6	21.2
404862 2014 KF_{25}	17.5	X	194.81048	161.96512	103.77134	4.17645	0.1696834	0.26023662	2.4297249	20	—	—
404863 2014 KV_{25}	17.3	X	224.98759	110.33069	173.30224	4.74285	0.2346564	0.27795279	2.3253519	20	1 7.4	21.3
404864 2014 KE_{27}	16.0	X	312.06683	198.12406	126.03362	11.40845	0.1203978	0.17967231	3.1103931	20	6 21.0	20.0
404865 2014 KW_{28}	16.2	X	177.31367	161.46138	74.63836	15.53172	0.1286497	0.24240871	2.5474397	20	12 25.2	20.1
404866 2014 KJ_{30}	16.1	X	77.17451	114.14321	62.95721	27.50791	0.1672368	0.18042926	3.1016877	20	6 27.4	20.8
404867 2014 KR_{31}	17.3	X	311.01396	322.74789	214.95205	6.68341	0.0573988	0.28019303	2.3129407	20	—	—
404868 2014 KV_{32}	16.6	X	330.10166	120.96980	189.69411	9.13203	0.1464001	0.17579868	3.1559175	20	6 28.3	20.5
404869 2014 KV_{42}	15.3	X	318.89348	238.81957	100.79977	23.31816	0.2622907	0.17572926	3.1567485	20	7 3.1	18.5
404870 2014 KW_{42}	15.4	X	319.18676	207.84906	117.43580	19.49420	0.1549525	0.17459443	3.1704127	20	6 29.7	19.4
404871 2014 KU_{43}	16.7	X	239.51363	59.54832	99.41988	15.63470	0.0684939	0.23869360	2.5738044	20	12 10.0	20.1
404872 2014 KC_{44}	16.8	X	9.01773	119.17515	153.18066	7.96523	0.1512981	0.17626941	3.1502964	20	7 17.9	20.5
404873 2014 KF_{51}	17.3	X	75.12019	122.73982	185.91753	5.45191	0.0762507	0.22165826	2.7040420	20	12 5.5	21.2
404874 2014 KW_{52}	17.1	X	199.02402	11.33636	166.11642	4.94261	0.1271944	0.22940400	2.6428270	20	11 5.3	21.1
404875 2014 KX_{53}	15.6	X	22.91041	157.20758	84.21460	21.34650	0.1170152	0.17244083	3.1967548	20	6 26.9	19.6
404876 2014 KZ_{53}	16.8	X	63.57356	115.89982	192.10165	7.98050	0.2055189	0.21198313	2.7857054	20	12 5.2	21.1
404877 2014 KB_{54}	16.8	X	201.06036	145.07126	118.24929	6.98774	0.1210654	0.26168583	2.4207461	20	—	—
404878 2014 KA_{56}	17.2	X	224.14915	88.13760	185.08142	6.87260	0.2590041	0.27324276	2.3519980	20	—	—
404879 2014 KD_{56}	15.9	X	14.63005	178.03405	94.35813	17.45270	0.0280515	0.18252338	3.0779180	20	7 20.6	20.1
404880 2014 KR_{56}	15.5	X	41.70160	140.84641	110.52662	10.52087	0.0422037	0.18459525	3.0548440	20	8 1.2	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404881 2014 KW_{57}	17.5	X	224.83792	137.64491	138.22907	6.05477	0.1511357	0.27538422	2.3397889	20	—	—
404882 2014 KV_{58}	16.4	X	90.01211	65.55177	161.79657	8.33224	0.1649794	0.19794177	2.9159344	20	9 18.8	20.7
404883 2014 KD_{62}	15.9	X	345.99198	157.88333	169.48914	23.40522	0.2996451	0.18027591	3.1034464	20	8 19.9	18.5
404884 2014 KH_{65}	16.5	X	325.73095	355.63711	77.29266	15.53628	0.0263843	0.23338357	2.6126979	20	12 17.5	19.7
404885 2014 KC_{68}	18.1	X	283.65433	73.92767	191.75283	5.78089	0.1749703	0.29880424	2.2158731	20	2 6.2	21.2
404886 2014 KJ_{72}	16.4	X	75.90422	105.36302	120.09623	10.32770	0.0188298	0.18727851	3.0255947	20	8 9.9	20.5
404887 2014 KB_{73}	16.9	X	18.41523	193.24434	173.70703	9.66994	0.1490797	0.21840908	2.7307939	20	12 17.6	20.5
404888 2014 KU_{73}	16.6	X	354.29466	156.12524	170.90695	9.44808	0.1563361	0.18800800	3.0177633	20	9 6.9	20.0
404889 2014 KS_{74}	16.6	X	39.18326	274.00871	94.83761	15.78386	0.2303032	0.22436461	2.6822534	20	—	—
404890 2014 KU_{74}	16.1	X	196.15392	312.32161	249.67278	10.75710	0.2123063	0.24017861	2.5631843	20	11 24.8	20.2
404891 2014 KE_{75}	16.7	X	143.09957	156.83802	68.97106	12.96665	0.1060833	0.22294762	2.6936065	20	11 9.6	20.9
404892 2014 KJ_{77}	16.0	X	20.70724	117.72246	146.81391	10.40640	0.1260891	0.17936885	3.1139002	20	7 25.9	19.8
404893 2014 KL_{77}	16.2	X	180.23789	333.51207	121.73387	15.24351	0.0151904	0.17601271	3.1533586	20	7 3.1	20.7
404894 2014 KZ_{77}	16.9	X	128.87685	144.15763	119.48054	16.94171	0.2484784	0.22544948	2.6736418	20	12 13.2	21.8
404895 2014 KA_{78}	16.0	X	64.00192	96.85573	136.50459	13.47605	0.0676266	0.18438425	3.0571740	20	8 10.9	20.0
404896 2014 KZ_{78}	17.0	X	197.66279	132.55956	45.95138	7.44772	0.0708674	0.22900237	2.6459161	20	11 9.2	20.6
404897 2014 KF_{81}	16.1	X	89.49714	135.96585	66.42617	10.20836	0.1518549	0.19222343	2.9734810	20	8 19.4	20.7
404898 2014 KN_{81}	17.5	X	339.46561	285.55676	241.02812	5.30125	0.0296986	0.28532421	2.2851268	20	—	—
404899 2014 KD_{83}	16.7	X	93.80738	31.97922	240.89715	7.74782	0.2764650	0.21318054	2.7752643	20	11 25.7	21.5
404900 2014 KT_{83}	16.6	X	156.15184	27.44666	268.28962	10.04365	0.1920592	0.25311709	2.4750752	20	—	—
404901 2014 KT_{85}	16.2	X	157.11883	172.69117	67.49675	15.24097	0.0599917	0.23550973	2.5969494	20	12 11.8	19.9
404902 2014 KA_{86}	16.6	X	103.72298	142.55627	146.63548	7.84280	0.1555268	0.22480943	2.6787141	20	12 18.2	20.9
404903 2014 KD_{87}	15.2	X	344.27978	168.57879	128.70200	22.60681	0.0636471	0.17654513	3.1470156	20	7 9.9	19.5
404904 2014 KJ_{89}	17.1	X	295.16061	109.98939	116.19526	7.42167	0.0577749	0.28946198	2.2632978	20	1 16.9	19.8
404905 2014 KM_{89}	17.8	X	200.64958	153.28901	118.85047	6.78480	0.1923467	0.26264880	2.4148256	20	—	—
404906 2014 KP_{91}	17.3	X	201.72269	42.86729	193.94138	2.17475	0.1586118	0.25432223	2.4672501	20	—	—
404907 2014 KB_{92}	16.8	X	126.80949	143.07603	138.92451	13.61202	0.1717468	0.23235521	2.6204011	20	12 31.2	21.2
404908 2014 KH_{92}	17.6	X	258.02400	31.95434	269.19062	6.09943	0.1262183	0.28670382	2.2777902	20	2 29.6	21.0
404909 2014 KM_{92}	15.4	X	260.84416	186.76595	178.87807	11.99656	0.0435224	0.17125684	3.2114716	20	6 15.6	20.2
404910 2014 KP_{95}	16.6	X	119.91590	72.83443	203.59912	14.01942	0.0991081	0.22775802	2.6555446	20	12 15.8	20.9
404911 2014 KD_{96}	15.5	X	304.19060	232.67094	94.15877	10.37014	0.0452899	0.17427315	3.1743079	20	6 21.9	19.7
404912 2014 KW_{96}	16.4	X	177.58702	286.96363	156.95228	7.61560	0.0595921	0.17397543	3.1779284	20	6 15.6	21.2
404913 2014 KL_{97}	15.6	X	353.56692	84.02030	215.47971	16.81729	0.1296433	0.18149463	3.0895379	20	7 22.3	19.6
404914 2014 KB_{98}	16.3	X	41.46227	154.25470	80.89193	6.14017	0.1254930	0.17916453	3.1162672	20	7 21.2	20.2
404915 2014 KH_{98}	18.0	X	222.76521	151.88940	100.42579	3.15837	0.1522016	0.26641843	2.3919928	20	—	—
404916 2014 KU_{98}	17.0	X	219.68484	56.56805	224.37145	2.91972	0.1722017	0.27446321	2.3450204	20	—	—
404917 2014 KO_{100}	18.1	X	227.53684	269.06490	74.70400	7.21951	0.1653937	0.30323042	2.1942573	20	3 27.9	21.5
404918 2014 LR	15.7	X	327.91366	198.83344	133.78410	14.08521	0.2681475	0.17563909	3.1578289	20	7 11.8	18.8
404919 2014 LF_{11}	16.9	X	134.16489	189.94169	122.33495	4.04023	0.1611885	0.23347215	2.6120370	20	—	—
404920 2014 LG_{11}	17.6	X	274.83510	166.55252	110.26177	6.98921	0.1620283	0.28836326	2.2690432	20	2 17.2	20.8
404921 2014 LW_{12}	17.1	X	133.73733	181.01283	104.70487	6.57895	0.1250753	0.23737080	2.5833575	20	—	—
404922 2014 LZ_{12}	17.2	X	204.20664	1.34183	249.02599	10.79553	0.2042548	0.25690275	2.4507004	20	—	—
404923 2014 LN_{13}	17.0	X	200.06140	183.44647	91.26994	5.58962	0.1451915	0.26383686	2.4075708	20	—	—
404924 2014 LT_{13}	16.8	X	193.90782	319.94865	280.55767	11.52958	0.2609812	0.24111239	2.5565622	20	—	—
404925 2014 LA_{14}	17.5	X	268.24797	2.26684	199.12251	7.26231	0.1185942	0.27100613	2.3649210	20	—	—
404926 2014 LN_{15}	16.3	X	182.35383	134.44215	120.84541	10.10612	0.0802293	0.23329777	2.6133385	20	—	—
404927 2014 LU_{15}	15.9	X	324.82567	12.60067	119.56089	28.06643	0.0569754	0.23834487	2.5763143	20	—	—
404928 2014 LL_{17}	17.2	X	256.35092	57.35774	221.67403	5.62936	0.2739709	0.28230528	2.3013891	20	1 22.7	21.1
404929 2014 LG_{18}	16.6	X	94.24671	252.58150	90.64991	15.26307	0.1760843	0.24356474	2.5393727	20	—	—
404930 2014 LF_{20}	17.7	X	235.38265	84.91067	187.80130	5.52008	0.1204617	0.27869027	2.3212478	20	1 4.7	21.2
404931 2014 LG_{20}	17.7	X	329.33394	17.43367	147.40393	5.65161	0.0921845	0.27901468	2.3194482	20	—	—
404932 2014 LG_{22}	17.0	X	171.60079	98.38810	120.48890	12.65876	0.1333800	0.23114930	2.6295070	20	11 29.7	21.2
404933 2014 LR_{23}	15.9	X	6.49274	174.32521	120.59413	10.44479	0.1388464	0.18210568	3.0826228	20	8 15.6	19.5
404934 2014 MF_{4}	17.2	X	216.06093	176.99963	120.61968	7.13339	0.1279997	0.26602867	2.3943286	20	1 19.0	20.9
404935 2014 ML_{7}	16.3	X	99.96948	28.59011	249.58514	13.72533	0.1536179	0.22244985	2.6976233	20	11 30.7	20.5
404936 2014 MN_{7}	17.3	X	203.44959	222.72127	121.64971	14.07676	0.2728974	0.27463420	2.3440469	20	3 8.2	21.6
404937 2014 MP_{7}	15.5	X	73.94816	321.97023	284.50604	16.61942	0.1457169	0.18194262	3.0844643	20	9 10.3	20.3
404938 2014 MT_{7}	15.5	X	23.28573	126.08245	126.50856	26.79051	0.1664834	0.17483939	3.1674507	20	7 19.3	19.3
404939 2014 MR_{9}	17.9	X	259.47107	147.41143	130.45751	6.15427	0.1936279	0.29049471	2.2579305	20	1 29.5	21.4
404940 2014 MG_{11}	16.4	X	20.44022	158.83650	165.03041	7.54349	0.1075665	0.18679661	3.0307961	20	10 14.1	20.2
404941 2014 MW_{14}	16.2	X	349.32201	74.16892	278.19703	10.12649	0.2009761	0.17881846	3.1202866	20	9 27.1	19.8
404942 2014 MJ_{20}	16.2	X	227.10522	306.80757	246.16455	12.54178	0.0719329	0.22245269	2.6976003	20	12 29.6	19.9
404943 6824 P–L	16.8	X	129.76893	202.85352	165.04470	6.01459	0.3337269	0.23765356	2.5813080	20	2 12.8	20.9
404944 3493 T–3	17.0	X	29.52269	284.51248	35.34206	2.05380	0.3964170	0.18589248	3.0406155	20	12 1.8	21.1
404945 1981 EM_{32}	16.3	X	243.80818	196.31999	344.61096	14.88034	0.1843511	0.21859771	2.7292227	20	12 19.9	20.2
404946 1993 TO_{26}	16.2	X	334.96670	207.02658	193.15370	16.26003	0.2475825	0.18323493	3.0699445	20	11 13.2	19.2
404947 1995 SR_{15}	16.6	X	6.86356	91.29903	350.03953	16.52572	0.1011861	0.20880356	2.8139137	20	—	—
404948 1995 YL_{9}	16.1	X	188.11579	288.95603	283.90194	8.31486	0.0090988	0.19336146	2.9618025	20	12 9.2	20.2
404949 1996 GA_{4}	16.3	X	257.12773	158.48433	42.58320	15.69853	0.0428506	0.23245035	2.6196860	20	—	—
404950 1996 TG_{4}	16.7	X	90.95836	171.30733	204.34667	10.68223	0.3274873	0.21908262	2.7251941	20	1 13.3	20.3
404951 1996 TV_{18}	16.7	X	80.49159	330.63625	32.33102	10.16412	0.2055635	0.21528770	2.7571258	20	—	—
404952 1996 TQ_{28}	16.8	X	83.55589	325.04401	48.40998	9.85482	0.1824334	0.21750643	2.7383438	20	—	—
404953 1996 VA_{25}	15.7	X	271.53988	157.38164	226.93519	14.66801	0.1473290	0.15418226	3.4443963	20	7 3.9	20.8
404954 1996 XX_{17}	18.0	X	125.47154	5.85809	47.35895	2.47999	0.1815545	0.26569473	2.3963344	20	3 19.1	21.4
404955 1997 SK_{11}	16.9	X	110.14608	20.27035	353.58443	7.18848	0.3122372	0.23202957	2.6228522	20	2 2.9	20.6
404956 1998 BN_{9}	17.5	X	165.69885	120.34665	308.00094	7.29806	0.1442151	0.27914115	2.3187476	20	5 12.3	21.1
404957 1998 BU_{38}	17.7	X	60.16482	94.76549	304.98204	3.90722	0.1702294	0.22043450	2.7140406	20	—	—
404958 1998 DF_{11}	17.4	X	293.06771	152.25801	329.70640	30.97923	0.2664067	0.38803935	1.8615964	20	—	—
404959 1998 RS_{13}	16.0	X	353.21557	29.09290	345.88888	16.64267	0.0894638	0.18393161	3.0621876	20	10 26.7	20.2
404960 1998 RM_{56}	15.4	X	37.40386	334.45665	351.30330	17.79150	0.1655448	0.18294175	3.0732237	20	11 7.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
404961 1998 SW_{8}	16.4	X	43.17962	187.98642	186.69489	8.80988	0.1069405	0.18759464	3.0221947	20	—	—
404962 1998 SL_{40}	17.8	X	115.23882	44.08516	0.51204	7.17409	0.2327340	0.24558185	2.5254486	20	3 5.1	21.3
404963 1998 SD_{52}	17.2	X	334.96637	29.61409	339.28579	0.99652	0.1791129	0.17874059	3.1211928	20	9 25.8	20.6
404964 1998 SL_{97}	15.2	X	25.43832	350.00116	12.59061	20.76191	0.1214708	0.18456031	3.0552295	20	12 2.9	19.6
404965 1998 TP_{8}	17.1	X	351.99624	317.72996	31.44219	10.89056	0.2230520	0.17738469	3.1370778	20	10 8.1	20.2
404966 1998 TQ_{22}	17.1	X	3.46390	353.86520	20.87452	1.24504	0.1729655	0.18111970	3.0938001	20	11 26.6	20.8
404967 1999 BV_{28}	17.6	X	186.07063	152.19737	305.63049	5.62947	0.1898309	0.29784080	2.2206490	20	7 13.6	21.0
404968 1999 TE_{43}	18.1	X	131.26253	108.86389	313.76159	0.77268	0.1835782	0.26190343	2.4194051	20	4 5.4	21.6
404969 1999 TL_{58}	16.2	X	342.01413	325.95719	53.17898	11.37163	0.0566053	0.18585775	3.0409942	20	10 24.9	20.2
404970 1999 TR_{207}	15.2	X	32.21186	104.71466	279.29312	13.89646	0.1726758	0.19550889	2.9400748	20	—	—
404971 1999 TY_{214}	17.8	X	195.90751	207.08701	175.32983	3.32960	0.2685144	0.26511771	2.3998102	20	4 15.0	22.0
404972 1999 TJ_{264}	15.8	X	205.27887	211.94023	206.59867	3.42743	0.1874575	0.12458885	3.9702386	20	6 7.8	22.2
404973 1999 UF_{57}	16.3	X	47.68790	6.05284	225.19345	10.72192	0.0290366	0.17480409	3.1678771	20	7 8.9	20.9
404974 1999 VF_{75}	17.6	X	193.32733	125.84201	219.39612	5.06210	0.1203401	0.25998852	2.4312704	20	2 23.5	21.3
404975 1999 VM_{80}	16.1	X	5.11592	182.92052	219.31560	15.49589	0.2411770	0.19221246	2.9735941	20	—	—
404976 1999 VT_{107}	15.6	X	313.27839	181.33332	237.09106	15.62585	0.0777444	0.18581019	3.0415131	20	10 28.6	19.5
404977 1999 VA_{113}	14.8	X	252.54620	301.96912	71.64654	10.43181	0.3318232	0.12524478	3.9563644	20	5 15.9	21.2
404978 1999 WC_{19}	16.3	X	257.90158	29.59807	57.44093	11.60442	0.1378223	0.18250314	3.0781456	20	9 16.8	20.8
404979 1999 XQ_{139}	15.8	X	253.47852	298.91867	66.46391	4.72859	0.3197216	0.12597331	3.9410961	20	5 7.7	22.2
404980 1999 XH_{145}	16.1	X	24.90183	124.90826	230.84174	10.62764	0.0710420	0.18896160	3.0076019	20	11 23.6	20.1
404981 1999 XR_{251}	17.0	X	314.68784	237.07682	206.70233	2.89806	0.1562649	0.18886543	3.0086227	20	12 1.6	20.3
404982 1999 XG_{255}	15.5	X	277.39845	329.87630	101.55231	12.10852	0.0672426	0.17786471	3.1314311	20	10 1.9	20.0
404983 1999 XO_{260}	16.0	X	296.74593	170.42997	258.21105	11.87190	0.1491112	0.18360481	3.0658202	20	10 5.2	20.0
404984 1999 YE_{8}	16.9	X	341.00372	318.03497	104.37843	6.40883	0.1411629	0.18611499	3.0381915	20	12 19.1	20.3
404985 2000 AJ_{220}	15.9	X	266.44445	164.90292	304.00360	10.10808	0.1292776	0.18082117	3.0972044	20	10 14.5	20.3
404986 2000 BL_{39}	16.4	X	143.27476	77.38458	129.38459	8.00713	0.1130574	0.17419294	3.1752824	20	10 12.0	21.5
404987 2000 CA_{3}	15.4	X	260.50593	121.70112	329.77430	26.15303	0.3748066	0.17769822	3.1333867	20	8 19.4	20.2
404988 2000 CL_{73}	16.5	X	353.31058	199.89903	193.59355	0.54264	0.2206504	0.18310786	3.0713647	20	12 9.8	19.6
404989 2000 DJ_{89}	16.4	X	307.74990	98.50901	323.94781	8.86707	0.0927678	0.17798087	3.1300684	20	10 19.9	20.5
404990 2000 DB_{111}	17.0	X	223.73785	239.24173	341.91488	2.94016	0.1992981	0.23170034	2.6253363	20	—	—
404991 2000 EU_{4}	16.2	X	190.72673	170.56184	333.25575	11.31514	0.0681020	0.17149175	3.2085383	20	9 9.5	21.0
404992 2000 GB_{3}	15.9	X	235.92925	320.61250	190.19422	27.83140	0.2359265	0.17550957	3.1593823	20	10 21.5	20.8
404993 2000 GR_{132}	17.1	X	140.13776	47.03387	186.96870	15.41909	0.3724259	0.21682937	2.7440413	20	11 16.4	22.6
404994 2000 QZ_{186}	16.7	X	86.91697	355.90689	4.91702	6.96655	0.2851414	0.21331927	2.7740609	20	—	—
404995 2000 QA_{210}	17.8	X	171.48743	164.88968	194.96247	2.49999	0.2638608	0.27482759	2.3429472	20	2 27.8	21.8
404996 2000 RZ_{36}	16.4	X	108.52289	157.73647	173.57201	21.87848	0.2185550	0.21327443	2.7744497	20	—	—
404997 2000 RA_{85}	16.4	X	74.90916	2.87098	352.07045	13.69535	0.2027474	0.21087803	2.7954292	20	—	—
404998 2000 SP_{30}	17.0	X	88.74827	173.95003	168.42456	1.78909	0.2685540	0.21111415	2.7933444	20	—	—
404999 2000 SW_{262}	16.4	X	80.14340	7.74483	37.38677	11.55524	0.2944157	0.21420513	2.7664074	20	2 7.6	19.9
405000 2000 SQ_{288}	16.6	X	48.45188	161.60613	235.08518	7.18058	0.2275434	0.21030160	2.8005349	20	—	—
405001 2000 SY_{334}	17.8	X	229.84048	307.62548	54.27623	7.17009	0.2113993	0.28233801	2.3012112	20	4 18.9	21.5
405002 2000 SR_{365}	18.2	X	203.18786	219.96818	148.42757	3.91976	0.2608105	0.27979720	2.3151216	20	4 3.3	22.1
405003 2000 TX_{25}	16.5	X	73.62638	177.09225	188.26217	9.06999	0.1701015	0.20993471	2.8037969	20	—	—
405004 2000 TU_{48}	16.2	X	242.71364	348.92491	27.27258	26.55737	0.2310754	0.28477870	2.2880440	20	5 8.4	20.1
405005 2000 UJ_{18}	16.3	X	52.93730	20.27149	70.52302	8.10221	0.2815231	0.21363388	2.7713367	20	2 16.3	18.9
405006 2000 UH_{70}	17.5	X	176.65373	146.61596	249.49498	4.70836	0.2012062	0.27604349	2.3360620	20	4 13.4	21.3
405007 2000 VJ_{19}	18.5	X	231.62487	304.26303	48.99357	6.33782	0.2872655	0.28064658	2.3104481	20	4 5.8	22.5
405008 2000 VT_{41}	17.2	X	124.30429	168.51393	267.65051	4.23847	0.2001089	0.27267354	2.3552701	20	4 15.6	20.7
405009 2000 VO_{53}	17.7	X	155.18945	12.37152	30.55999	6.70378	0.2555158	0.27336432	2.3513006	20	4 8.8	21.6
405010 2000 WL_{13}	16.8	X	191.33588	351.06940	70.72180	25.97285	0.2486770	0.27895836	2.3197604	20	5 30.3	20.9
405011 2000 WT_{80}	16.6	X	38.97826	37.49458	48.36099	8.58986	0.1994612	0.20969207	2.8059594	20	—	—
405012 2000 WP_{170}	17.6	X	188.96870	78.82444	316.43337	1.97913	0.2281647	0.27703319	2.3304950	20	4 23.6	21.5
405013 2000 YK_{94}	17.1	X	130.56844	293.62401	112.57676	6.04468	0.1993143	0.26667965	2.3904305	20	3 19.2	20.6
405014 2001 CZ_{28}	15.3	X	212.48278	143.25636	335.87911	27.21141	0.1117801	0.18122413	3.0926116	20	8 31.7	19.9
405015 2001 DW_{23}	15.7	X	206.75220	1.86190	140.56510	17.19368	0.2519874	0.18368455	3.0649328	20	9 17.7	21.0
405016 2001 DD_{55}	16.6	X	252.76225	167.51788	332.95765	5.43764	0.0812968	0.18881870	3.0091192	20	11 16.9	20.9
405017 2001 HE_{17}	17.2	X	105.98570	168.47771	214.01757	5.89012	0.0674163	0.24566340	2.5248897	20	—	—
405018 2001 PY_{4}	16.9	X	124.91093	69.35341	281.33149	11.18924	0.2910948	0.23068375	2.6330436	20	1 15.4	20.8
405019 2001 PY_{64}	18.3	X	335.29278	291.68463	335.68382	6.75117	0.2688056	0.30541419	2.1837851	20	4 8.0	19.9
405020 2001 QX	18.6	X	304.09040	160.60833	156.25778	6.86449	0.2498008	0.30584180	2.1817492	20	5 7.4	20.8
405021 2001 QN_{48}	16.7	X	128.09567	38.99346	330.34125	4.57357	0.3147628	0.23201790	2.6229402	20	2 12.9	20.8
405022 2001 QX_{128}	16.9	X	156.64138	150.52581	168.27717	14.17963	0.2680033	0.23182547	2.6243915	20	1 3.2	21.5
405023 2001 QO_{130}	16.3	X	131.29612	50.22901	309.52342	10.87231	0.2151812	0.23154331	2.6265231	20	1 25.1	20.1
405024 2001 QK_{189}	16.9	X	80.84272	90.18596	250.11806	10.64580	0.3546265	0.22184447	2.7025287	20	—	—
405025 2001 QM_{190}	16.0	X	52.71542	162.32403	253.62497	13.04289	0.1501120	0.22597392	2.6695036	20	—	—
405026 2001 QU_{207}	17.8	X	281.44976	6.68802	347.77705	7.12213	0.2325155	0.30537243	2.1839842	20	5 28.3	20.5
405027 2001 QZ_{251}	17.3	X	119.07118	214.93867	127.83318	5.88770	0.2608062	0.22857006	2.6492513	20	—	—
405028 2001 QC_{257}	16.8	X	132.54455	212.12764	144.60501	7.68794	0.2598490	0.22974520	2.6402097	20	1 26.8	20.9
405029 2001 QH_{288}	17.9	X	300.31078	177.79197	152.25016	3.68299	0.2119154	0.30546652	2.1835357	20	5 27.4	20.0
405030 2001 RD_{9}	15.8	X	21.03298	108.48901	253.22602	23.90232	0.1678510	0.21402808	2.7679328	20	12 14.9	19.3
405031 2001 RO_{36}	18.5	X	286.64571	112.37492	217.17603	4.68077	0.2006895	0.30355992	2.1926691	20	5 6.2	21.0
405032 2001 RO_{39}	17.6	X	123.87535	102.75245	227.91829	11.56140	0.2848038	0.22694483	2.6618843	20	—	—
405033 2001 RD_{98}	16.4	X	163.18663	99.35166	193.40188	12.42690	0.1171355	0.22511609	2.6762809	20	—	—
405034 2001 RW_{111}	16.7	X	87.04910	251.49959	167.36340	13.08187	0.1599013	0.23125614	2.6286970	20	2 4.6	20.0
405035 2001 RO_{113}	17.0	X	122.21862	28.93721	8.19446	5.48252	0.3048801	0.23252980	2.6190893	20	3 11.7	21.2
405036 2001 RT_{119}	18.1	X	240.76456	331.60745	21.74822	5.87123	0.1814740	0.29896527	2.2150773	20	4 17.4	21.4
405037 2001 SQ_{24}	17.8	X	256.10383	184.15760	358.32342	20.66692	0.0143157	0.38004336	1.8876173	20	—	—
405038 2001 SS_{48}	17.7	X	82.03782	339.42374	14.49766	20.96361	0.0761986	0.37961392	1.8890406	20	—	—
405039 2001 SJ_{60}	16.3	X	64.85910	135.85262	211.71134	6.15118	0.3141043	0.21824853	2.7321330	20	—	—
405040 2001 SC_{85}	16.9	X	67.43120	225.30720	175.34069	18.78642	0.1723714	0.22617412	2.6679280	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
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405041 2001 SO_{89}	18.9	X	262.77950	148.80938	223.54216	2.91447	0.1980725	0.30384515	2.1912967	20	6 6.1	21.7
405042 2001 SY_{102}	17.4	X	94.06737	58.24914	277.60026	1.94634	0.2235842	0.22221715	2.6995062	20	—	—
405043 2001 SM_{116}	17.6	X	114.89268	272.23502	11.76576	20.86677	0.0577003	0.37416429	1.9073387	20	—	—
405044 2001 SB_{127}	18.3	X	227.11125	76.91609	346.97016	5.43374	0.3491124	0.30169622	2.2016898	20	6 24.9	22.1
405045 2001 SM_{129}	16.6	X	122.95754	319.59820	346.16003	9.68675	0.1937630	0.22317151	2.6918047	20	—	—
405046 2001 SR_{166}	17.3	X	116.74898	166.60772	178.88225	4.07428	0.2172770	0.22650252	2.6653486	20	—	—
405047 2001 SL_{185}	17.0	X	112.45493	308.30185	352.81949	11.93553	0.1709114	0.22244167	2.6976894	20	—	—
405048 2001 SP_{191}	17.0	X	57.11272	274.07622	67.50946	1.93888	0.2139653	0.21818746	2.7326428	20	—	—
405049 2001 SK_{193}	16.9	X	46.37712	262.79897	169.12427	14.65364	0.1793468	0.22615870	2.6680493	20	—	—
405050 2001 SM_{198}	17.3	X	135.86612	196.13463	152.54190	3.23135	0.2180283	0.23001282	2.6381613	20	1 15.9	21.2
405051 2001 SL_{199}	16.7	X	180.19318	267.88824	14.57217	4.66566	0.1999274	0.22937211	2.6430719	20	—	—
405052 2001 SR_{215}	16.9	X	32.70160	78.16999	353.31777	9.12730	0.1214234	0.22502565	2.6769979	20	—	—
405053 2001 SQ_{225}	18.5	X	267.34442	159.31646	185.30583	4.77131	0.1838299	0.30062005	2.2069412	20	5 6.1	21.3
405054 2001 SJ_{255}	17.9	X	212.44334	20.50802	40.85236	5.63908	0.1548380	0.29958650	2.2120141	20	6 21.8	21.1
405055 2001 SN_{259}	17.3	X	145.45616	221.69474	134.36982	5.15811	0.1801578	0.23223820	2.6212812	20	1 30.3	21.4
405056 2001 SN_{287}	18.0	X	76.04702	137.92043	212.03489	19.26221	0.1587976	0.37928516	1.8901321	20	—	—
405057 2001 SO_{352}	16.9	X	96.21381	79.45152	293.81326	11.70942	0.1994298	0.22519178	2.6756812	20	—	—
405058 2001 TX_{16}	14.1	X	254.97528	53.36441	69.41900	8.13278	0.5987894	0.14563104	3.5779429	20	8 30.8	20.5
405059 2001 TO_{17}	16.8	X	89.72613	20.96823	342.05391	9.46771	0.1995780	0.22351772	2.6890244	20	—	—
405060 2001 TT_{18}	18.5	X	47.54800	11.56098	7.87886	21.07724	0.0646777	0.37692585	1.8980112	20	—	—
405061 2001 TC_{30}	16.8	X	129.26796	339.69488	5.63666	6.59886	0.2098752	0.22637568	2.6663442	20	1 6.2	20.8
405062 2001 TN_{52}	16.9	X	79.84929	354.27021	31.48225	15.30757	0.2485654	0.22405285	2.6847410	20	—	—
405063 2001 TL_{86}	16.9	X	51.55820	156.55953	282.76652	2.05613	0.3267328	0.22395321	2.6855373	20	1 26.0	18.6
405064 2001 TV_{153}	17.2	X	176.46053	161.89309	301.34164	7.01781	0.1659118	0.29968168	2.2115457	20	7 12.4	20.4
405065 2001 TA_{162}	17.3	X	67.99489	8.38824	0.86388	5.58016	0.1524997	0.22096542	2.7096915	20	—	—
405066 2001 TS_{182}	16.9	X	84.08270	38.84252	10.67738	11.21145	0.2548981	0.22549289	2.6732987	20	2 10.5	20.2
405067 2001 TM_{183}	18.1	X	297.95509	114.12598	203.29265	7.97638	0.2214819	0.30247402	2.1979138	20	5 1.9	20.3
405068 2001 TH_{225}	16.5	X	107.86247	272.68624	74.73599	13.51350	0.2884614	0.22352646	2.6889543	20	—	—
405069 2001 TG_{231}	17.8	X	269.21138	282.02179	98.32172	5.88090	0.1892197	0.30436920	2.1887807	20	6 27.9	20.4
405070 2001 TN_{257}	16.9	X	345.55739	24.58578	47.02272	10.07131	0.1736936	0.21507022	2.7589841	20	—	—
405071 2001 TT_{258}	17.4	X	75.09776	267.81334	128.01076	4.58094	0.1355403	0.22442805	2.6817479	20	—	—
405072 2001 UT_{8}	18.0	X	278.24696	310.96598	17.58690	6.93829	0.2626771	0.30016896	2.2091516	20	4 14.3	20.9
405073 2001 UL_{43}	17.2	X	37.89822	343.94593	43.45167	9.65777	0.2215804	0.21714818	2.7413549	20	—	—
405074 2001 UU_{58}	17.2	X	64.30323	182.52821	211.84066	12.04421	0.1578637	0.22201242	2.7011656	20	—	—
405075 2001 UU_{62}	16.9	X	147.03532	295.27603	16.34513	13.51788	0.1880186	0.22538955	2.6741157	20	—	—
405076 2001 UP_{72}	16.5	X	97.39165	283.57664	112.19102	11.86749	0.1712038	0.22623565	2.6674442	20	1 25.0	19.8
405077 2001 US_{77}	17.4	X	60.92464	340.94599	57.78006	5.12665	0.1755893	0.22115034	2.7081807	20	—	—
405078 2001 UK_{85}	17.8	X	62.66779	228.51126	180.35147	1.98609	0.1969635	0.22394641	2.6855917	20	—	—
405079 2001 UB_{105}	17.3	X	100.73879	150.26906	201.58316	11.04516	0.1852912	0.22248997	2.6972990	20	—	—
405080 2001 UL_{142}	18.2	X	186.53716	14.25314	54.71847	6.85394	0.1793775	0.29570666	2.2313206	20	6 4.6	21.6
405081 2001 UH_{172}	17.1	X	107.47390	343.05362	56.96493	3.66020	0.1039440	0.22867426	2.6484465	20	2 3.2	20.5
405082 2001 UO_{204}	16.9	X	119.49566	100.09999	222.99771	8.73217	0.3162353	0.22330725	2.6907138	20	—	—
405083 2001 UG_{209}	16.7	X	89.60103	314.90097	99.74555	8.31799	0.2383223	0.22688355	2.6623637	20	2 20.3	20.1
405084 2001 UG_{218}	17.3	X	97.66364	239.94763	129.15762	11.93531	0.2186692	0.22275986	2.6951199	20	—	—
405085 2001 UQ_{231}	17.2	X	80.03766	224.13065	171.22819	6.57450	0.1179471	0.22542951	2.6737997	20	—	—
405086 2001 VS_{74}	16.8	X	81.72833	329.41390	51.13851	6.69484	0.0576791	0.22046889	2.7137583	20	—	—
405087 2001 WC_{20}	17.0	X	23.00509	35.36075	42.64870	15.14992	0.1979794	0.21974266	2.7197342	20	—	—
405088 2001 WN_{32}	17.8	X	211.74258	338.09853	78.54771	5.36086	0.1376607	0.29713045	2.2241869	20	6 15.8	20.9
405089 2001 WD_{72}	17.4	X	134.04521	247.84347	224.63276	4.83123	0.1229942	0.29277153	2.2462090	20	6 8.5	20.5
405090 2001 XK_{32}	17.2	X	93.50482	177.69922	242.77709	0.45696	0.1249580	0.22682415	2.6628284	20	2 12.8	20.4
405091 2001 XT_{32}	17.5	X	50.71336	170.32306	236.86337	8.73590	0.2424061	0.21959453	2.7209571	20	—	—
405092 2001 XM_{46}	16.8	X	36.15075	25.18141	54.37383	9.23657	0.2936776	0.21713705	2.7414485	20	—	—
405093 2001 XW_{88}	16.9	X	16.21033	150.75505	288.99706	6.06426	0.2844496	0.21593332	2.7516273	20	—	—
405094 2001 XE_{91}	16.3	X	38.65144	168.31297	253.76815	13.56240	0.1723905	0.21878350	2.7276774	20	—	—
405095 2001 XL_{141}	17.1	X	51.13745	281.40238	103.71433	4.09602	0.0960669	0.21538377	2.7563058	20	—	—
405096 2001 XF_{174}	16.9	X	7.26974	351.92574	108.51447	10.85925	0.2372611	0.21520845	2.7578025	20	—	—
405097 2001 XY_{198}	16.1	X	9.98199	328.59185	113.84775	18.76973	0.1180850	0.21209078	2.7847627	20	—	—
405098 2001 XG_{217}	16.8	X	1.39028	5.75826	99.37754	10.08340	0.1718801	0.21455613	2.7633895	20	—	—
405099 2001 XY_{234}	16.2	X	7.05311	3.35732	75.51533	26.83575	0.1119401	0.21446702	2.7641549	20	—	—
405100 2001 YZ_{8}	17.4	X	52.89788	104.24474	309.16751	3.80075	0.2742367	0.21944188	2.7222189	20	—	—
405101 2001 YQ_{14}	16.7	X	20.83806	330.82111	75.56722	5.47263	0.0674573	0.21270834	2.7793700	20	—	—
405102 2002 AZ_{43}	16.8	X	59.92754	279.68108	132.51540	4.19081	0.1944168	0.21736216	2.7395554	20	—	—
405103 2002 AH_{55}	17.6	X	165.16084	153.82920	277.31037	4.35525	0.0922396	0.28710640	2.2756605	20	5 14.8	20.7
405104 2002 AN_{68}	18.1	X	198.35772	90.13213	310.23291	1.94407	0.1452491	0.28906249	2.2653826	20	5 9.4	21.6
405105 2002 BJ_{26}	18.0	X	221.60595	98.56029	337.03809	23.22887	0.3794778	0.29813073	2.2192091	20	7 9.6	22.4
405106 2002 CE_{60}	17.5	X	79.18160	158.37637	327.41394	6.48942	0.1316027	0.28088644	2.3091326	20	4 13.7	20.1
405107 2002 CY_{70}	17.9	X	152.41854	330.36823	139.26300	5.38369	0.1168073	0.28836900	2.2690131	20	6 24.7	21.1
405108 2002 CF_{98}	16.9	X	130.31734	308.23539	151.13036	23.37935	0.1995343	0.28326844	2.2961694	20	5 29.7	21.0
405109 2002 CB_{246}	18.3	X	187.20802	265.18551	149.37484	7.01888	0.0993438	0.28657917	2.2784507	20	5 20.4	21.7
405110 2002 CL_{252}	16.1	X	151.82516	273.05358	290.89531	12.60763	0.2098098	0.19240821	2.9715770	20	10 9.9	21.4
405111 2002 CG_{260}	18.2	X	161.20323	109.66066	320.61563	4.91179	0.1530407	0.28483189	2.2877592	20	5 11.2	21.6
405112 2002 DK_{19}	17.7	X	159.59717	87.02428	142.37368	23.43162	0.0597534	0.36115560	1.9528691	20	—	—
405113 2002 ED_{4}	18.0	X	42.12364	352.16712	162.29531	1.11569	0.1274878	0.27515297	2.3410997	20	3 26.0	20.0
405114 2002 EE_{82}	16.6	X	165.83859	222.64464	336.40922	11.80520	0.2194212	0.19009283	2.9956579	20	10 15.9	22.0
405115 2002 EO_{162}	17.6	X	274.94534	256.48695	333.49159	5.34671	0.0955737	0.26723938	2.3870915	20	—	—
405116 2002 FQ_{15}	17.4	X	60.55744	45.38678	111.43553	6.01252	0.1677152	0.27752285	2.3277530	20	5 11.8	19.8
405117 2002 FG_{22}	17.0	X	124.24629	134.47595	17.13999	24.37578	0.1742336	0.28674151	2.2775907	20	8 6.6	21.0
405118 2002 FN_{30}	17.4	X	246.32435	113.64817	23.64690	20.43812	0.0902115	0.35689713	1.9683727	20	12 17.1	19.6
405119 2002 FW_{33}	16.7	X	160.99930	35.50610	148.51350	14.35163	0.2755059	0.18744445	3.0238088	20	10 2.5	22.2
405120 2002 FS_{41}	16.5	X	106.34946	55.82248	174.24779	5.68760	0.2109355	0.18325158	3.0697586	20	10 10.0	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405121 2002 GF_{2}	16.7	X	263.43758	144.99749	126.56921	15.06958	0.0753145	0.26415874	2.4056146	20	2 9.1	20.0
405122 2002 GO_{2}	17.6	X	265.56719	235.64334	6.50969	6.80407	0.3089169	0.26026960	2.4295197	20	—	—
405123 2002 GB_{5}	16.1	X	210.21508	116.10017	67.02552	11.93585	0.0319498	0.19313994	2.9640668	20	11 27.1	20.1
405124 2002 GS_{51}	16.0	X	64.77759	82.65954	187.04429	16.02485	0.1947269	0.18055783	3.1002151	20	10 15.3	20.5
405125 2002 GM_{112}	17.2	X	315.43256	110.86265	90.64822	5.83379	0.1645893	0.26420897	2.4053098	20	—	—
405126 2002 GU_{121}	16.3	X	98.30244	10.72586	205.06055	10.83786	0.2296716	0.18027176	3.1034941	20	9 14.1	21.4
405127 2002 GB_{135}	17.9	X	259.80325	288.03986	302.14058	1.07837	0.1741075	0.25985469	2.4321051	20	—	—
405128 2002 GU_{162}	15.8	X	58.03018	241.89877	29.51896	17.86183	0.2195000	0.17941911	3.1133187	20	10 13.9	20.2
405129 2002 HW_{8}	18.3	X	359.40203	29.94672	55.30748	5.83534	0.1764540	0.36422835	1.9418703	20	—	—
405130 2002 JO_{9}	17.7	X	276.02265	22.63878	221.55238	4.91880	0.0573248	0.26193520	2.4192094	20	1 19.9	21.1
405131 2002 JV_{17}	16.1	X	53.52391	26.89779	233.60601	4.05650	0.2497658	0.17548868	3.1596330	20	9 24.9	20.6
405132 2002 JH_{36}	16.5	X	43.04294	44.35854	223.07095	11.22536	0.3164100	0.17276715	3.1927281	20	9 28.6	20.8
405133 2002 LB_{15}	15.1	X	91.72698	19.68063	254.64641	22.79100	0.1058531	0.18114405	3.0935229	20	11 5.1	20.0
405134 2002 PU_{110}	16.3	X	13.04222	200.47602	165.29871	15.77471	0.2549383	0.17183180	3.2043039	20	12 11.6	20.4
405135 2002 PJ_{177}	15.4	X	325.46977	71.53548	326.36509	18.93071	0.1682651	0.17111304	3.2132706	20	10 4.6	19.5
405136 2002 PK_{180}	16.6	X	312.66517	88.63757	314.19832	5.70467	0.1902390	0.16858144	3.2453600	20	9 22.9	20.4
405137 2002 PE_{202}	17.0	X	268.54519	233.13174	317.76325	10.70196	0.0092466	0.24238317	2.5476186	20	—	—
405138 2002 QC_{3}	17.2	X	161.31200	13.90885	299.74798	10.76334	0.1631507	0.24453339	2.5326622	20	—	—
405139 2002 QE_{34}	15.4	X	323.81189	277.01924	152.50038	18.62480	0.2279074	0.17168502	3.2061299	20	11 26.4	19.1
405140 2002 QR_{121}	16.0	X	318.76030	211.49396	192.27041	5.03702	0.1847617	0.16857506	3.2454418	20	10 9.0	19.4
405141 2002 QP_{138}	16.9	X	132.58644	202.32548	143.82757	15.59738	0.1103761	0.24507103	2.5289567	20	—	—
405142 2002 RF_{179}	17.8	X	101.96402	31.30763	351.76886	4.08428	0.1955125	0.24087628	2.5582326	20	1 16.4	20.9
405143 2002 RZ_{182}	17.1	X	77.82633	126.03162	234.88702	12.46493	0.2283809	0.23500594	2.6006594	20	—	—
405144 2002 RD_{218}	16.8	X	94.18366	14.84658	7.20082	12.89485	0.1894719	0.24096273	2.5576206	20	1 3.7	20.1
405145 2002 RS_{245}	17.3	X	61.37488	59.79013	351.72264	4.14097	0.1753217	0.24051125	2.5608204	20	—	—
405146 2002 RJ_{255}	17.4	X	128.47606	332.65591	39.84415	2.64140	0.2214043	0.24555513	2.5256318	20	2 6.4	21.1
405147 2002 RD_{266}	18.1	X	113.62268	35.93745	336.19598	11.58500	0.2090335	0.24233251	2.5479736	20	1 20.9	21.6
405148 2002 RN_{288}	18.0	X	131.30832	159.56641	170.27658	3.03186	0.0993089	0.24004788	2.5641148	20	—	—
405149 2002 SE_{12}	17.3	X	90.44008	311.97326	58.35684	3.14352	0.1712377	0.23698644	2.5861501	20	—	—
405150 2002 ST_{48}	17.7	X	106.02963	274.83958	120.80708	2.22789	0.3137464	0.24178429	2.5518237	20	2 23.1	21.1
405151 2002 SH_{64}	17.2	X	145.29935	342.03204	4.31540	10.99598	0.1969565	0.24571985	2.5245030	20	1 21.7	21.2
405152 2002 TM	17.4	X	153.48576	352.47114	12.76142	13.08351	0.1729177	0.24700768	2.5157206	20	2 21.3	21.4
405153 2002 TH_{64}	16.5	X	336.20873	118.32368	351.61564	9.71091	0.0914207	0.23276523	2.6173229	20	—	—
405154 2002 TN_{64}	17.9	X	152.00317	66.42610	284.47978	2.99089	0.2850906	0.24486297	2.5303891	20	2 5.9	22.1
405155 2002 TY_{97}	16.5	X	209.48894	332.48694	317.15380	14.35070	0.0762377	0.24529918	2.5273884	20	1 7.4	20.3
405156 2002 TW_{149}	17.1	X	91.73333	344.37036	12.73368	11.96596	0.0899730	0.23585752	2.5943958	20	—	—
405157 2002 TW_{209}	17.1	X	132.69998	333.67593	45.70847	12.92003	0.1963596	0.24436256	2.5338424	20	2 22.0	21.1
405158 2002 TS_{244}	17.9	X	168.07679	107.36328	209.14353	3.83372	0.2502529	0.24277864	2.5448513	20	1 7.1	22.2
405159 2002 TS_{312}	17.7	X	156.68410	250.29025	84.99504	7.86993	0.2808069	0.24344967	2.5401728	20	1 23.7	22.0
405160 2002 TX_{333}	16.9	X	330.28954	113.94929	39.21353	6.69087	0.1379095	0.23884551	2.5727129	20	—	—
405161 2002 TX_{348}	17.0	X	168.69014	206.48447	78.62830	15.29040	0.0860520	0.23469550	2.6029523	20	—	—
405162 2002 TG_{367}	17.6	X	97.95365	267.92014	116.48431	6.57988	0.1354435	0.23892828	2.5721187	20	1 2.6	20.6
405163 2002 UD_{32}	17.4	X	98.98057	171.15828	248.56199	5.35151	0.2958020	0.24083118	2.5585520	20	3 11.1	21.1
405164 2002 UY_{32}	17.7	X	137.86131	99.17280	265.42319	3.60263	0.3240342	0.24336750	2.5407445	20	2 13.5	21.9
405165 2002 UG_{37}	17.1	X	102.01356	163.85561	222.90875	9.01368	0.2106572	0.23898382	2.5717202	20	1 20.4	20.6
405166 2002 UO_{71}	16.1	X	245.15531	171.66250	38.09776	15.61899	0.0472761	0.23305003	2.6151902	20	—	—
405167 2002 VF_{13}	17.5	X	98.23365	186.41734	240.02700	6.77326	0.3251874	0.24132436	2.5550649	20	3 22.7	21.2
405168 2002 VL_{46}	16.6	X	145.05303	317.49995	66.13344	14.53041	0.1591631	0.24468567	2.5316113	20	3 8.5	20.7
405169 2002 VO_{56}	17.7	X	99.64935	221.49210	177.98468	5.56496	0.3106654	0.23965327	2.5669287	20	2 19.0	21.2
405170 2002 VK_{64}	17.4	X	96.59677	181.30948	252.55769	2.67615	0.2225509	0.24283051	2.5444888	20	3 17.2	20.7
405171 2002 VN_{102}	16.8	X	46.17516	118.51973	248.59127	10.06033	0.1925608	0.22758671	2.6568770	20	—	—
405172 2002 VE_{105}	17.4	X	80.70027	128.14666	311.98825	3.16404	0.2745601	0.23926028	2.5697388	20	3 12.7	20.3
405173 2002 VM_{106}	16.8	X	122.50789	349.64466	44.05966	8.87069	0.2722676	0.24177711	2.5518742	20	3 7.1	20.8
405174 2002 VR_{106}	16.9	X	119.99419	347.89537	29.71284	15.85531	0.1793817	0.24029800	2.5623352	20	2 4.5	20.8
405175 2002 VF_{113}	17.7	X	106.52542	177.70965	253.49904	1.68261	0.2907902	0.24269566	2.5454313	20	4 4.0	21.4
405176 2002 VB_{123}	16.7	X	150.53201	337.72424	26.90500	16.25605	0.2396304	0.24331106	2.5411374	20	2 26.2	21.1
405177 2002 VX_{125}	17.6	X	23.80157	181.64242	205.72145	25.68391	0.0445822	0.39242478	1.8477013	20	—	—
405178 2002 VN_{133}	17.4	X	114.45598	288.66064	67.57027	1.68991	0.3016467	0.23696174	2.5863297	20	1 13.0	20.9
405179 2002 WT_{1}	17.8	X	104.45333	170.11939	243.36630	2.43762	0.2520678	0.24085167	2.5584068	20	3 4.9	21.3
405180 2002 WF_{2}	17.7	X	107.95957	339.36453	69.62443	5.84448	0.2662163	0.24106615	2.5568891	20	3 9.4	21.4
405181 2002 XA_{22}	17.6	X	77.89641	149.05460	263.42861	4.18527	0.2612394	0.23668440	2.5883498	20	1 28.5	20.3
405182 2002 XU_{117}	17.8	X	50.92387	339.14582	106.49526	5.73410	0.2220019	0.23550226	2.5970043	20	1 17.0	19.9
405183 2002 YS_{15}	17.0	X	34.32697	144.79228	289.05824	12.64611	0.2561350	0.22853594	2.6495150	20	—	—
405184 2003 AC_{15}	16.0	X	104.67174	164.37140	251.85072	12.96572	0.2933736	0.23940680	2.5686902	20	3 8.9	20.0
405185 2003 AQ_{21}	16.9	X	147.94131	352.98005	41.83175	4.39451	0.3104674	0.24361275	2.5390390	20	3 29.4	21.4
405186 2003 AF_{42}	16.8	X	95.78198	202.04494	213.39717	4.83941	0.3138362	0.23633234	2.5909197	20	3 5.9	20.3
405187 2003 AV_{66}	16.3	X	134.28956	55.72099	346.14118	10.30032	0.2887435	0.24103394	2.5571169	20	3 22.6	20.5
405188 2003 AM_{75}	16.3	X	60.85144	89.44945	331.99543	16.11736	0.1750707	0.23102279	2.6304669	20	1 1.9	19.3
405189 2003 BO_{1}	20.6	X	104.36414	2.77945	140.80832	13.69621	0.0804920	0.64361652	1.3285705	20	6 21.5	20.7
405190 2003 BK_{4}	16.6	X	142.48377	235.33474	162.35133	7.66129	0.2767853	0.24102561	2.5571758	20	3 26.6	20.8
405191 2003 BE_{5}	17.3	X	325.04912	309.39284	169.66536	9.34939	0.0377441	0.21977434	2.7194729	20	—	—
405192 2003 BM_{30}	16.5	X	226.55958	219.97101	310.65879	8.47375	0.1570708	0.21164960	2.7886312	20	11 16.1	20.8
405193 2003 BJ_{59}	16.2	X	347.73378	151.36760	309.04477	7.87708	0.0816034	0.22106488	2.7088786	20	—	—
405194 2003 CD_{1}	16.0	X	111.96251	74.89936	11.66182	11.78329	0.2673944	0.24026144	2.5625952	20	4 24.2	20.0
405195 2003 CX_{18}	16.1	X	71.61155	290.38263	140.46021	28.53940	0.3014467	0.23096192	2.6309290	20	2 22.5	18.8
405196 2003 CQ_{25}	16.2	X	43.76819	337.81096	144.36768	20.71004	0.3189643	0.23136806	2.6278493	20	3 15.0	18.2
405197 2003 DU_{4}	16.2	X	195.43235	253.68082	325.46023	13.55447	0.2089556	0.21036668	2.7999574	20	12 9.3	20.9
405198 2003 DU_{21}	16.4	X	74.96865	98.30364	6.38347	28.56896	0.3623113	0.23544457	2.5974284	20	4 13.1	19.9
405199 2003 DW_{21}	16.4	X	85.26122	75.99853	12.86437	27.77781	0.4130216	0.23566750	2.5957902	20	4 14.9	20.2
405200 2003 EE_{50}	18.0	X	23.42046	50.48033	8.82227	11.14253	0.2338079	0.39031491	1.8543539	20	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
405201	2003 FF_{3}	17.7	X	213.45813	24.30543	131.96273	22.55326	0.1394336	0.37513369	1.9040514	20	11 29.4	20.2
405202	2003 FW_{74}	18.0	X	229.90857	151.00910	31.16523	21.84113	0.0429686	0.37892640	1.8913249	20	—	—
405203	2003 GC_{57}	18.5	X	336.61321	347.38364	237.23916	1.27230	0.1507673	0.28679506	2.2773071	20	2 28.9	20.8
405204	2003 HP_{8}	17.9	X	288.87299	101.47316	105.43232	8.82455	0.2772115	0.27568161	2.3381059	20	—	—
405205	2003 HS_{29}	17.5	X	0.50840	184.14661	47.43066	3.85843	0.1778509	0.28941864	2.2635237	20	4 29.4	19.0
405206	2003 HK_{42}	16.3	X	255.01411	98.88818	73.36171	13.96802	0.1368118	0.20970967	2.8058024	20	12 27.9	19.9
405207	Konstanz	16.2	X	58.59843	90.29678	165.07231	24.43145	0.3513505	0.18371821	3.0645585	20	10 13.9	21.1
405208	2003 ND_{10}	17.9	X	178.09921	133.79879	238.54637	5.35280	0.2149057	0.27010901	2.3701545	20	3 15.9	21.9
405209	2003 OV_{2}	17.2	X	263.72994	74.86391	205.08641	9.00761	0.2772707	0.27641637	2.3339607	20	1 28.8	21.3
405210	2003 OY_{10}	17.6	X	251.40624	186.67596	102.62189	6.88325	0.2545427	0.27318533	2.3523276	20	2 4.7	21.5
405211	2003 PD_{6}	17.3	X	83.93742	126.86292	156.01957	23.16804	0.0469350	0.35883803	1.9612686	20	12 14.1	20.2
405212	2003 QC_{10}	18.0	X	118.10825	120.76324	0.05598	5.03702	0.7314624	0.61223737	1.3735870	20	7 16.3	20.8
405213	2003 QN_{14}	17.8	X	249.68885	60.53719	230.09859	5.14256	0.2392064	0.27159252	2.3615157	20	2 2.9	21.8
405214	2003 QC_{39}	17.6	X	347.89818	33.12677	340.20744	18.25461	0.0889717	0.35576809	1.9725350	20	12 9.2	19.9
405215	2003 QH_{48}	17.1	X	175.56813	71.56340	293.64537	5.54520	0.1585530	0.26670716	2.3902662	20	3 2.8	20.8
405216	2003 QL_{59}	16.4	X	160.49022	73.63589	358.42498	11.13966	0.3682315	0.26883599	2.3776310	20	5 18.7	21.1
405217	2003 QD_{72}	15.7	X	26.39366	298.71468	86.22737	5.44102	0.1905395	0.18560776	3.0437242	20	—	—
405218	2003 QV_{111}	15.8	X	52.19895	327.67168	358.01847	17.71561	0.3322143	0.18368883	3.0648852	20	12 23.5	20.9
405219	2003 QY_{114}	17.5	X	225.20240	218.53937	112.03350	3.31521	0.2210873	0.27005195	2.3704884	20	3 6.6	21.4
405220	2003 RM_{2}	16.2	X	6.80295	178.11427	153.44033	11.57486	0.2160728	0.17711393	3.1402742	20	10 14.9	19.7
405221	2003 RM_{3}	17.7	X	207.61925	332.97642	1.97229	2.45889	0.1932389	0.26902467	2.3765191	20	2 26.3	21.6
405222	2003 RV_{20}	17.7	X	194.19962	292.13645	83.06735	2.33180	0.1958751	0.27030596	2.3690031	20	4 5.1	21.5
405223	2003 SK_{31}	17.8	X	126.68362	236.51888	217.26631	1.73065	0.1836346	0.26646943	2.3916876	20	5 11.8	21.1
405224	2003 SO_{32}	15.6	X	9.53098	98.18201	265.79832	14.30518	0.2353918	0.17999462	3.1066789	20	12 1.2	19.2
405225	2003 SW_{33}	15.9	X	340.14239	210.43680	175.28359	17.21954	0.1971909	0.17635160	3.1493176	20	11 1.8	19.4
405226	2003 SA_{41}	15.9	X	339.22745	23.32607	13.73543	17.64367	0.2123523	0.17669926	3.1451852	20	11 6.5	19.4
405227	2003 SA_{43}	15.9	X	353.07009	73.24064	311.10722	8.34061	0.2010385	0.17998854	3.1067489	20	11 21.7	19.4
405228	2003 SP_{62}	15.8	X	248.78587	235.51917	236.72576	7.90587	0.0388540	0.17816788	3.1278778	20	10 11.9	20.3
405229	2003 SA_{66}	17.2	X	242.33945	220.95183	91.62652	5.41231	0.2471772	0.27088869	2.3656045	20	2 27.3	21.2
405230	2003 SJ_{79}	16.2	X	309.51877	185.39879	209.13946	8.83573	0.1948446	0.17171114	3.2058047	20	9 5.7	20.1
405231	2003 SJ_{83}	16.0	X	347.58824	11.72952	13.40703	10.99342	0.0542995	0.17857652	3.1231042	20	11 2.3	20.2
405232	2003 SU_{90}	17.8	X	237.10742	281.18165	25.63947	4.03641	0.2394491	0.26993119	2.3711953	20	2 16.0	21.8
405233	2003 SH_{111}	16.0	X	1.93816	195.40430	167.40883	24.69074	0.1962301	0.17674006	3.1447012	20	11 14.9	20.1
405234	2003 SU_{117}	17.8	X	162.40522	76.11927	311.61031	5.22834	0.2716897	0.26510301	2.3998989	20	3 24.8	22.0
405235	2003 SS_{121}	16.0	X	24.63984	309.03943	338.31382	10.81136	0.1215949	0.17202730	3.2018757	20	8 31.3	19.9
405236	2003 SU_{121}	15.6	X	344.68253	45.64924	1.23861	26.98012	0.1556606	0.17839222	3.1252549	20	11 23.2	19.8
405237	2003 SL_{130}	16.6	X	336.43614	54.76055	321.61075	12.68362	0.2811902	0.17413222	3.1760204	20	9 30.2	19.6
405238	2003 SW_{131}	15.7	X	25.17400	176.35142	196.27989	13.68240	0.2048452	0.18083707	3.0970228	20	12 29.8	20.0
405239	2003 SU_{132}	16.5	X	19.95834	172.66601	156.07056	1.19864	0.2050522	0.17449584	3.1716067	20	10 28.8	20.1
405240	2003 ST_{133}	15.7	X	348.30235	39.19953	20.30019	14.93321	0.2711509	0.18198993	3.0839298	20	—	—
405241	2003 SC_{140}	17.5	X	205.82012	255.06617	149.17798	6.95253	0.1014221	0.27458943	2.3443017	20	5 26.9	20.9
405242	2003 SM_{141}	15.4	X	317.44416	189.30027	243.72301	17.20189	0.2181226	0.17723162	3.1388838	20	11 14.4	18.7
405243	2003 SL_{151}	15.8	X	42.89084	311.22513	21.23888	16.25198	0.2355493	0.18133737	3.0913238	20	12 5.9	20.4
405244	2003 SV_{154}	17.4	X	209.70071	112.16984	228.98707	3.31375	0.2956297	0.26827725	2.3809310	20	3 3.8	21.7
405245	2003 SP_{179}	15.6	X	327.60212	2.38850	24.13122	14.82798	0.1306115	0.17441823	3.1725475	20	10 8.4	19.2
405246	2003 SB_{187}	15.4	X	302.71257	50.51976	12.40284	27.07311	0.1942172	0.17483171	3.1675434	20	10 5.3	19.1
405247	2003 SG_{202}	16.1	X	313.42960	235.26427	183.55011	16.46730	0.2065318	0.17697053	3.1419704	20	10 21.2	19.5
405248	2003 SN_{203}	16.4	X	0.80793	45.35937	15.46494	3.20632	0.3126617	0.18424893	3.0586708	20	—	—
405249	2003 SD_{206}	16.8	X	154.48739	166.50077	237.29969	7.00544	0.1012837	0.26931415	2.3748158	20	3 26.2	20.2
405250	2003 SE_{206}	15.7	X	84.57246	314.75506	320.53825	15.11463	0.1632691	0.18200387	3.0837723	20	10 31.4	20.7
405251	2003 ST_{230}	17.9	X	224.36144	268.95048	47.92182	2.70640	0.2495479	0.26943220	2.3741221	20	2 17.6	22.0
405252	2003 SL_{244}	18.2	X	213.92101	174.80524	166.08368	3.13259	0.2098624	0.26895766	2.3769138	20	3 9.1	22.2
405253	2003 SZ_{248}	16.4	X	37.33413	209.89559	199.41969	11.37488	0.2109066	0.18758229	3.0223273	20	—	—
405254	2003 SR_{264}	15.7	X	299.19831	48.45044	31.31966	10.93297	0.1038815	0.17805917	3.1291507	20	10 31.6	19.6
405255	2003 SY_{264}	15.7	X	41.69973	280.67116	23.56054	16.44843	0.2351443	0.17647573	3.1478405	20	10 31.0	20.0
405256	2003 SY_{265}	18.1	X	169.65583	227.56899	137.99537	1.84547	0.2036628	0.26437327	2.4043131	20	3 3.1	21.8
405257	2003 SZ_{265}	17.6	X	212.11400	269.59684	54.92956	2.06246	0.2017212	0.26668253	2.3904133	20	2 17.9	21.6
405258	2003 SS_{266}	15.5	X	30.82284	287.44058	16.48048	26.05027	0.2115570	0.17411194	3.1762670	20	10 12.8	19.5
405259	2003 SR_{269}	17.1	X	196.13318	352.74895	42.62299	9.90523	0.1976303	0.27105170	2.3646559	20	5 1.2	20.7
405260	2003 SY_{285}	16.3	X	349.61367	46.01843	342.66617	11.01855	0.1300346	0.17895434	3.1187069	20	11 12.7	20.3
405261	2003 SB_{287}	16.8	X	274.41428	233.47693	197.56592	7.39264	0.1868134	0.17251319	3.1958607	20	8 31.8	21.2
405262	2003 SK_{288}	16.5	X	316.59296	243.68765	146.89172	6.07244	0.1407324	0.17266163	3.1940287	20	9 23.7	20.3
405263	2003 SQ_{301}	15.6	X	308.09721	261.47888	148.90305	9.86221	0.2957893	0.17377510	3.1803702	20	9 15.4	18.9
405264	2003 SF_{311}	18.3	X	229.66743	185.83868	166.80716	1.33735	0.2087705	0.27278783	2.3546122	20	4 6.1	22.0
405265	2003 SG_{313}	16.8	X	346.53967	160.05694	196.54110	1.12998	0.2290658	0.17381252	3.1799138	20	10 3.1	19.9
405266	2003 SV_{322}	16.0	X	331.75528	71.67991	333.10856	9.25217	0.1238953	0.17964252	3.1107369	20	11 3.9	19.9
405267	2003 SL_{324}	16.2	X	112.98092	256.28594	352.42900	15.27870	0.1902539	0.18160196	3.0883205	20	10 28.9	21.5
405268	2003 SW_{325}	16.8	X	346.64781	101.75063	249.73624	3.80554	0.1798281	0.17304699	3.1892851	20	9 22.2	20.3
405269	2003 SD_{326}	18.2	X	140.09864	62.25123	356.54630	3.69282	0.1893348	0.26623203	2.3931092	20	4 9.3	21.9
405270	2003 SZ_{326}	16.7	X	326.45980	71.54459	6.52512	13.14711	0.2681751	0.18045195	3.1014277	20	12 11.2	19.7
405271	2003 SV_{328}	16.6	X	351.41982	310.85192	75.83737	2.71728	0.1870291	0.17820301	3.1274667	20	11 22.0	20.0
405272	2003 SM_{332}	17.0	X	330.29691	203.71927	189.15749	10.41777	0.2029592	0.17430189	3.1739591	20	10 19.1	20.2
405273	2003 SJ_{335}	16.3	X	43.00559	255.57824	51.14454	10.99095	0.0905972	0.17467169	3.1694777	20	10 20.1	20.6
405274	2003 SM_{336}	17.2	X	312.55231	289.94467	94.91845	6.87840	0.2161803	0.16956368	3.2328148	20	9 1.2	20.8
405275	2003 SR_{338}	15.7	X	125.32236	205.94685	31.45572	10.93357	0.0451716	0.17709818	3.1404603	20	10 24.3	20.3
405276	2003 SY_{338}	16.4	X	4.24821	321.56519	35.78111	10.86874	0.0747345	0.17604763	3.1529417	20	10 25.9	20.5
405277	2003 SF_{339}	16.1	X	260.11290	48.01288	49.52435	11.07117	0.0524320	0.17396364	3.1780719	20	10 11.1	20.6
405278	2003 SF_{340}	16.4	X	297.99653	33.48897	25.21135	10.55465	0.1980553	0.17347050	3.1840921	20	9 23.9	20.2
405279	2003 SY_{349}	16.5	X	312.01463	252.25897	170.18622	8.83433	0.1583171	0.17734407	3.1375569	20	10 28.1	20.2
405280	2003 SZ_{365}	16.0	X	219.76263	186.20628	337.87713	9.00218	0.0502900	0.18226574	3.0808178	20	11 7.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405281 2003 SD_{400}	17.8	X	242.47007	121.35678	169.79278	15.58211	0.1596557	0.26366193	2.4086356	20	2 2.3	21.7
405282 2003 SQ_{402}	15.9	X	346.35277	195.69263	190.21858	10.97322	0.1164154	0.17886622	3.1197311	20	11 8.9	19.7
405283 2003 SW_{404}	16.4	X	305.36106	24.06542	60.18106	12.26516	0.3053585	0.17606040	3.1527891	20	10 27.9	19.6
405284 2003 SC_{422}	16.5	X	138.36157	251.95342	338.69424	8.80898	0.0507201	0.18044626	3.1014929	20	10 27.6	21.3
405285 2003 SV_{424}	16.0	X	219.19049	154.15415	357.95546	18.18993	0.1102922	0.17870536	3.1216029	20	10 13.6	20.9
405286 2003 SY_{431}	16.3	X	341.75837	116.25253	266.72916	5.03521	0.1383468	0.17781288	3.1320396	20	10 25.5	20.0
405287 2003 SK_{433}	16.1	X	185.29117	138.37312	30.72878	18.69869	0.0455060	0.17418501	3.1753787	20	10 11.2	20.8
405288 2003 TL_{5}	16.9	X	86.05300	141.01742	302.82432	5.52065	0.1198530	0.25938695	2.4350280	20	2 26.2	19.7
405289 2003 TS_{8}	15.2	X	1.70853	102.52488	275.18328	8.42550	0.2286417	0.17639582	3.1487912	20	12 2.9	18.7
405290 2003 TC_{13}	15.2	X	314.78463	173.22621	232.40740	16.76169	0.2280297	0.17274607	3.1929879	20	9 24.7	19.0
405291 2003 TH_{14}	16.0	X	30.37388	322.34368	48.04860	14.19865	0.2872859	0.18104562	3.0946440	20	—	—
405292 2003 TJ_{16}	15.8	X	334.59873	178.72537	230.56747	9.80204	0.2066367	0.17684150	3.1434985	20	11 19.6	18.9
405293 2003 TR_{16}	16.2	X	338.36070	87.29896	272.37649	5.77474	0.1473051	0.17241515	3.1970721	20	9 15.7	20.0
405294 2003 TK_{17}	17.5	X	121.34998	224.45420	21.63338	19.83400	0.0558340	0.35459230	1.9768931	20	11 29.1	20.2
405295 2003 TC_{36}	16.0	X	28.09692	323.89968	4.34842	14.56733	0.1535953	0.17517730	3.1633761	20	10 27.9	20.3
405296 2003 TW_{39}	18.1	X	172.74916	146.39718	241.05714	5.40762	0.1326219	0.26663920	2.3906723	20	3 27.1	21.8
405297 2003 TM_{54}	16.3	X	309.21754	25.14409	32.54602	20.94566	0.1575217	0.17457008	3.1707075	20	10 16.9	20.1
405298 2003 TG_{57}	15.8	X	28.95915	6.05699	346.79049	17.92750	0.1565077	0.17874409	3.1211520	20	11 30.6	20.3
405299 2003 TZ_{58}	16.3	X	326.47151	343.18230	27.32552	5.09384	0.1552489	0.16915970	3.2379597	20	9 12.9	20.0
405300 2003 UQ	14.6	X	340.58196	86.36438	266.30623	24.65084	0.3111410	0.17180883	3.2045894	20	8 25.5	18.0
405301 2003 UH_{5}	15.7	X	311.45221	160.92092	268.91118	9.49166	0.2057114	0.17730086	3.1380665	20	10 27.1	19.3
405302 2003 UO_{7}	15.8	X	31.75390	23.14368	310.82253	18.05835	0.1957636	0.17869407	3.1217344	20	11 16.3	20.3
405303 2003 UW_{17}	18.2	X	179.20341	173.70916	238.53644	1.12508	0.2284541	0.26935467	2.3745777	20	5 8.1	22.2
405304 2003 UH_{25}	15.9	X	21.14570	14.73263	336.83329	21.22762	0.2343465	0.17828240	3.1265382	20	11 28.9	20.3
405305 2003 UJ_{25}	15.9	X	341.63551	96.50321	299.80617	14.45947	0.2490597	0.17720839	3.1391582	20	11 15.4	19.3
405306 2003 UP_{29}	16.1	X	331.88939	350.70567	36.68116	7.60249	0.1529201	0.17205323	3.2015540	20	10 15.4	19.8
405307 2003 UH_{33}	16.2	X	348.07316	189.63350	188.67320	10.12399	0.0867663	0.17605755	3.1528232	20	10 30.6	20.2
405308 2003 UQ_{35}	17.5	X	65.63977	203.91261	231.17226	5.02300	0.0472083	0.25589782	2.4571122	20	1 6.9	20.4
405309 2003 US_{57}	15.4	X	342.45550	100.56418	269.28898	7.66714	0.0820337	0.17380443	3.1800125	20	10 5.4	19.6
405310 2003 UB_{62}	17.2	X	202.94857	296.35911	80.25130	7.67370	0.1395844	0.27021765	2.3695192	20	4 17.7	20.9
405311 2003 UX_{66}	17.3	X	208.97913	272.89092	90.64147	6.21015	0.2587320	0.27075608	2.3663769	20	4 4.0	21.5
405312 2003 UP_{69}	16.1	X	129.33977	224.58848	21.28864	10.55897	0.0369438	0.17926748	3.1150741	20	11 5.8	20.8
405313 2003 UT_{81}	17.3	X	199.82278	307.62804	43.54009	2.74231	0.1976585	0.26719602	2.3873498	20	3 11.4	21.3
405314 2003 UJ_{82}	16.5	X	317.23863	9.24440	40.28941	6.24329	0.2469746	0.17498974	3.1656361	20	10 11.3	19.5
405315 2003 UM_{95}	16.8	X	165.60786	321.40513	26.55085	14.73173	0.0842571	0.25922978	2.4360122	20	2 4.1	20.5
405316 2003 UN_{99}	15.0	X	55.19112	260.88826	85.99195	16.03174	0.2626362	0.18044064	3.1015573	20	—	—
405317 2003 UM_{101}	16.1	X	13.07671	152.40073	195.45021	17.33866	0.2195066	0.17561158	3.1581587	20	11 14.8	20.0
405318 2003 UW_{105}	15.3	X	312.81133	166.72773	243.30755	17.14414	0.2035275	0.17315454	3.1879644	20	9 28.8	19.2
405319 2003 UJ_{149}	17.6	X	177.77547	309.56073	73.19129	3.24037	0.2277964	0.26669297	2.3903510	20	4 1.9	21.5
405320 2003 UU_{164}	17.6	X	201.11442	182.59509	152.79587	2.94478	0.2101993	0.26385731	2.4074464	20	2 21.4	21.4
405321 2003 UN_{165}	15.7	X	359.78669	327.25257	36.21898	11.48607	0.0565107	0.17337071	3.1853139	20	10 25.4	19.9
405322 2003 UN_{176}	17.5	X	200.69730	11.77296	312.76414	1.75973	0.2035072	0.26363734	2.4087854	20	2 7.9	21.5
405323 2003 UF_{195}	17.5	X	124.65384	86.54018	307.91123	1.68172	0.1702465	0.25694561	2.4504278	20	2 20.9	21.0
405324 2003 UT_{221}	15.7	X	301.59041	339.82972	70.87671	6.18983	0.1392316	0.17120199	3.2121576	20	9 26.9	19.8
405325 2003 UM_{225}	17.7	X	118.58518	30.67568	10.84807	6.90618	0.1089467	0.25793381	2.4441651	20	2 17.2	20.9
405326 2003 UM_{235}	16.9	X	351.67598	325.86726	57.71385	0.25672	0.1958501	0.17610561	3.1522496	20	11 18.3	20.1
405327 2003 UT_{239}	17.8	X	178.08168	258.59338	157.66561	1.98904	0.2116673	0.27070199	2.3666920	20	5 12.8	21.6
405328 2003 UH_{245}	17.6	X	190.01284	325.97395	50.42025	6.05099	0.2595382	0.26678829	2.3897816	20	4 4.6	21.7
405329 2003 UW_{249}	15.6	X	337.40116	315.13908	62.69553	13.48664	0.2550330	0.17129833	3.2109531	20	10 17.8	18.8
405330 2003 UP_{266}	17.9	X	185.91898	359.04452	41.46983	3.10000	0.2176793	0.26858944	2.3790857	20	4 28.9	21.9
405331 2003 UV_{269}	16.2	X	315.42468	30.08838	39.15457	15.04873	0.2604296	0.17471566	3.1689460	20	10 31.9	19.1
405332 2003 UM_{279}	16.0	X	279.35003	183.59561	247.27985	9.31124	0.1661657	0.17143635	3.2092295	20	9 7.6	20.6
405333 2003 UB_{282}	15.8	X	302.90554	169.15868	240.70309	7.82398	0.0755528	0.17315950	3.1879035	20	9 28.7	20.0
405334 2003 UR_{296}	16.6	X	20.80216	233.61387	149.85527	1.20371	0.1925816	0.18181802	3.0858734	20	—	—
405335 2003 UN_{302}	16.1	X	257.75345	108.61725	1.56952	13.55103	0.0534568	0.17513172	3.1639249	20	10 16.5	20.7
405336 2003 UW_{320}	15.6	X	351.10885	221.25719	217.39604	14.82260	0.0754457	0.18188415	3.0851253	20	—	—
405337 2003 UL_{327}	17.2	X	348.19251	140.63886	220.38027	7.17051	0.2515486	0.17562051	3.1580516	20	10 14.1	20.2
405338 2003 UH_{328}	16.0	X	48.27236	97.82332	200.33862	12.81522	0.1931795	0.17903627	3.1177554	20	10 29.9	20.2
405339 2003 UZ_{328}	16.0	X	102.59125	84.12000	193.87299	15.54055	0.0583070	0.18292372	3.0734255	20	11 20.4	20.7
405340 2003 UF_{334}	15.8	X	296.08186	76.98323	356.00319	12.82476	0.0424368	0.17812548	3.1283742	20	10 21.1	20.2
405341 2003 UP_{336}	16.9	X	65.15056	254.32411	45.76709	1.46481	0.1489290	0.17970952	3.1099638	20	11 13.9	21.4
405342 2003 UE_{340}	16.2	X	48.11115	228.26682	68.40655	2.30697	0.1841243	0.17326602	3.1865968	20	10 25.2	20.6
405343 2003 UP_{340}	18.3	X	158.77972	350.58988	22.56769	1.49202	0.2047581	0.26221607	2.4174816	20	3 3.2	22.0
405344 2003 UN_{352}	17.7	X	81.38356	349.04736	125.47228	3.62353	0.1636356	0.26316691	2.4116551	20	4 12.9	20.4
405345 2003 UX_{371}	15.7	X	346.94094	70.70210	328.36298	9.36577	0.0857456	0.18156574	3.0887312	20	11 21.2	19.8
405346 2003 UX_{372}	16.2	X	27.63608	97.47966	220.44511	11.02340	0.1649539	0.17851851	3.1237808	20	10 20.5	20.1
405347 2003 UT_{401}	16.4	X	278.32555	270.15086	203.18796	9.73325	0.0516414	0.18260480	3.0770030	20	11 21.9	20.6
405348 2003 UE_{415}	16.1	X	353.68093	124.81596	236.45981	14.15116	0.1428915	0.17626150	3.1503906	20	10 16.6	20.0
405349 2003 VU_{6}	17.8	X	137.15879	57.57452	317.09913	0.79271	0.2543569	0.25745762	2.4471780	20	2 18.7	21.6
405350 2003 VV_{11}	15.8	X	19.61134	117.22631	261.85636	13.64486	0.3151226	0.17959189	3.1113216	20	—	—
405351 2003 WV_{10}	15.6	X	40.32540	303.34168	34.37509	15.43672	0.2164030	0.17595386	3.1540616	20	12 5.9	20.2
405352 2003 WM_{27}	17.5	X	206.36206	340.25011	348.49338	4.01470	0.3468334	0.26482281	2.4015914	20	2 18.4	22.1
405353 2003 WY_{27}	17.2	X	119.95625	142.26736	270.07326	5.17128	0.1180613	0.25821663	2.4423800	20	2 29.0	20.6
405354 2003 WO_{39}	17.3	X	83.52733	174.77888	284.88238	4.65873	0.1002224	0.25893319	2.4378720	20	3 11.6	20.3
405355 2003 WF_{46}	17.5	X	351.70115	149.34535	242.77556	20.67187	0.0724524	0.35210808	1.9861805	20	—	—
405356 2003 WM_{54}	17.5	X	79.18543	180.42304	264.82684	5.44529	0.1714042	0.25573786	2.4581367	20	2 25.2	20.3
405357 2003 WP_{58}	17.6	X	88.64303	33.76738	51.58321	3.38449	0.1589246	0.25670732	2.4519440	20	3 13.5	20.4
405358 2003 WF_{60}	17.1	X	158.71092	154.56371	240.09309	5.27498	0.1176620	0.26183046	2.4198546	20	3 21.2	20.8
405359 2003 WN_{63}	15.8	X	322.75917	140.09010	245.23215	8.37104	0.1507256	0.16840675	3.2476038	20	9 20.1	19.7
405360 2003 WZ_{80}	17.8	X	82.20103	88.67303	353.35713	2.01726	0.1594822	0.25433451	2.4671706	20	2 27.1	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405361 2003 WW_{98}	16.1	X	359.55053	266.10492	114.92095	10.85385	0.2265005	0.17633522	3.1495126	20	12 5.2	19.7
405362 2003 WT_{114}	17.9	X	157.45576	88.41531	309.58496	2.06002	0.2207728	0.26233583	2.4167458	20	4 1.3	21.7
405363 2003 WB_{116}	16.9	X	349.10078	162.47121	324.62437	3.87965	0.2628741	0.24271844	2.5452720	20	—	—
405364 2003 WR_{124}	16.9	X	74.74252	74.72150	37.23429	5.17503	0.1569251	0.25594946	2.4567817	20	3 29.2	19.6
405365 2003 WG_{132}	15.6	X	318.87971	34.26691	65.16936	16.40747	0.0818302	0.17710485	3.1403815	20	12 25.3	19.7
405366 2003 WM_{151}	17.7	X	176.60508	239.25116	130.21145	5.83811	0.1247332	0.26113593	2.4241433	20	3 12.2	21.3
405367 2003 WN_{153}	15.6	X	350.07141	268.44573	148.70697	15.69219	0.2881908	0.17797063	3.1301885	20	—	—
405368 2003 XO_{25}	15.8	X	356.25244	289.90497	99.62654	10.94446	0.2159502	0.17521067	3.1629745	20	12 7.8	19.2
405369 2003 XU_{37}	17.1	X	91.11051	133.01265	298.57324	6.04509	0.2179925	0.25453823	2.4658540	20	3 3.6	20.1
405370 2003 YG_{18}	17.4	X	75.82082	104.38737	8.94080	8.23615	0.1799029	0.25765305	2.4459403	20	4 3.3	20.0
405371 2003 YK_{121}	15.4	X	355.79863	114.86421	319.40564	23.17888	0.4782355	0.17691912	3.1425790	20	—	—
405372 2003 YF_{152}	16.0	X	348.62872	14.94284	51.93968	12.10799	0.3340548	0.17576976	3.1562636	20	—	—
405373 2004 AR_{23}	17.0	X	295.34107	79.66567	125.24368	15.72727	0.0697808	0.24302450	2.5431346	20	—	—
405374 2004 BR_{29}	17.0	X	12.88801	145.69311	322.02632	12.21464	0.1811528	0.24039831	2.5616224	20	—	—
405375 2004 BN_{48}	16.7	X	284.31092	264.06942	295.68367	4.00223	0.1638906	0.23890511	2.5722850	20	—	—
405376 2004 BJ_{69}	17.1	X	51.29681	342.32902	129.38782	8.29290	0.2028040	0.24477064	2.5310254	20	2 23.2	19.2
405377 2004 BK_{73}	16.4	X	252.30455	219.80277	310.95535	12.25138	0.1880345	0.22800400	2.6536343	20	12 21.1	19.8
405378 2004 BJ_{128}	17.7	X	68.99253	112.59188	311.90730	1.03093	0.1411299	0.24517598	2.5282350	20	1 10.5	20.4
405379 2004 BM_{141}	17.6	X	338.89997	0.65579	136.46467	7.33888	0.0864688	0.23924997	2.5698126	20	—	—
405380 2004 BK_{145}	16.4	X	141.06345	192.80425	131.03460	15.46583	0.1210874	0.23803226	2.5785694	20	—	—
405381 2004 BJ_{159}	17.6	X	121.97335	326.48660	346.19647	2.71327	0.0598667	0.22592969	2.6698519	20	—	—
405382 2004 CK_{14}	16.8	X	291.52774	190.39446	325.53735	13.67774	0.1052928	0.23289547	2.6163470	20	—	—
405383 2004 CM_{60}	17.0	X	323.40877	163.54726	13.57096	6.31018	0.1543635	0.24040141	2.5616004	20	—	—
405384 2004 DS_{67}	17.4	X	227.74086	198.17608	359.90922	5.73548	0.1222785	0.22825281	2.6517055	20	—	—
405385 2004 DN_{70}	17.1	X	188.22546	73.07045	161.93887	12.78301	0.1219873	0.22321547	2.6914513	20	12 31.8	21.3
405386 2004 ED_{20}	16.5	X	303.59133	346.89624	179.58998	13.03605	0.0774431	0.23310459	2.6147820	20	—	—
405387 2004 EV_{36}	16.3	X	256.25894	14.76905	178.97432	13.04194	0.2154484	0.22714647	2.6603088	20	—	—
405388 2004 EU_{86}	16.8	X	239.23678	68.92244	131.73810	5.39250	0.2328161	0.22587753	2.6702630	20	—	—
405389 2004 EZ_{91}	16.8	X	223.21597	243.99596	350.83887	13.21695	0.1283698	0.22854893	2.6494145	20	—	—
405390 2004 FH_{67}	18.0	X	325.89792	191.41739	63.20967	4.12527	0.2083958	0.30687931	2.1768290	20	3 16.9	20.0
405391 2004 FF_{72}	18.0	X	313.13773	171.30158	17.99083	1.45079	0.0791291	0.23711079	2.5852458	20	—	—
405392 2004 FA_{76}	17.3	X	49.81220	85.96068	358.76571	6.77471	0.1036402	0.23727174	2.5840766	20	1 5.2	20.2
405393 2004 GQ_{41}	16.4	X	289.75317	289.78113	237.70750	7.02286	0.1798994	0.22755440	2.6571285	20	—	—
405394 2004 HS_{8}	17.4	X	178.08301	178.12334	61.61901	8.41049	0.2457552	0.21710154	2.7417474	20	12 17.8	22.0
405395 2004 HW_{39}	16.8	X	145.23157	295.74346	31.87841	7.89827	0.0687653	0.22780159	2.6552060	20	—	—
405396 2004 JU_{4}	16.1	X	169.38728	261.83012	53.79428	14.17388	0.1895498	0.22379480	2.6868044	20	1 6.6	20.6
405397 2004 LB_{12}	18.7	X	154.95788	170.00641	145.83389	1.32334	0.2481165	0.40109694	1.8209715	20	—	—
405398 2004 LJ_{28}	18.6	X	268.57806	144.56898	177.94658	5.41331	0.2778240	0.29683751	2.2256500	20	3 26.9	21.9
405399 2004 OJ	18.3	X	267.73384	238.83525	111.42941	5.03878	0.2919224	0.29924254	2.2137088	20	5 1.7	21.5
405400 2004 PB_{8}	17.0	X	42.88031	196.66867	166.68390	9.67257	0.3137928	0.19713204	2.9239139	20	—	—
405401 2004 PH_{35}	17.5	X	290.70674	290.57034	327.37479	23.59313	0.2783946	0.29225712	2.2488439	20	1 30.6	21.1
405402 2004 PT_{35}	16.5	X	90.25153	210.93659	113.49809	6.59252	0.2135607	0.20176314	2.8789989	20	—	—
405403 2004 PJ_{50}	18.1	X	264.51199	341.75098	339.31835	9.27395	0.2689995	0.29520089	2.2338685	20	3 19.7	21.7
405404 2004 PJ_{77}	18.0	X	317.82188	137.27527	161.96319	6.93044	0.1772066	0.30226828	2.1989111	20	5 18.5	20.0
405405 2004 PE_{88}	17.3	X	43.30196	19.16303	331.05844	5.88839	0.2322841	0.19550424	2.9401214	20	—	—
405406 2004 RN_{18}	17.9	X	236.94311	152.86713	175.64320	3.80218	0.1686890	0.29002048	2.2603912	20	3 13.9	21.1
405407 2004 RJ_{23}	18.1	X	237.51322	240.23679	130.25019	1.90081	0.2492390	0.29464220	2.2366915	20	5 2.9	21.5
405408 2004 RA_{31}	18.0	X	260.89346	358.53042	350.53854	5.88241	0.1791044	0.29705618	2.2245576	20	5 1.9	21.0
405409 2004 RQ_{72}	17.5	X	301.04763	304.04296	348.94062	5.05642	0.2061463	0.29606422	2.2295237	20	4 1.2	19.9
405410 2004 RQ_{73}	17.6	X	305.33057	278.30827	20.23636	3.21442	0.1473530	0.29710510	2.2243134	20	4 27.2	19.9
405411 2004 RT_{98}	17.9	X	296.45113	110.01900	192.73823	7.68887	0.1785603	0.29691396	2.2252679	20	4 15.5	20.3
405412 2004 RX_{98}	17.9	X	254.31432	161.73707	189.21772	6.75744	0.1685647	0.29550236	2.2323489	20	5 1.8	20.9
405413 2004 RZ_{135}	16.5	X	315.91977	59.92733	0.92950	9.07932	0.0987045	0.19155062	2.9804398	20	11 3.5	20.3
405414 2004 RL_{145}	18.4	X	26.39780	141.34373	168.74020	23.08828	0.0114553	0.37425350	1.9070356	20	11 1.1	20.7
405415 2004 RN_{162}	15.7	X	248.11995	108.68686	340.20295	17.13197	0.2178731	0.18141252	3.0904701	20	8 23.7	20.3
405416 2004 RG_{172}	17.9	X	284.71660	160.20672	193.98154	5.83539	0.2399765	0.29935537	2.2131525	20	6 3.0	20.4
405417 2004 RS_{197}	17.7	X	287.74035	25.86980	308.19909	3.24841	0.1903906	0.29778304	2.2209362	20	5 15.0	20.2
405418 2004 RX_{204}	16.0	X	351.25599	55.44864	334.02095	8.85314	0.0656113	0.19235474	2.9721276	20	11 16.5	20.1
405419 2004 RV_{207}	15.8	X	18.48743	164.08339	237.75929	15.89604	0.1866233	0.19804385	2.9149323	20	—	—
405420 2004 RU_{240}	17.9	X	131.14910	131.94614	348.94791	7.55542	0.0536961	0.29512813	2.2342357	20	6 8.9	20.9
405421 2004 RB_{321}	17.7	X	265.02776	102.30838	239.75183	5.91225	0.2629875	0.29657179	2.2269792	20	4 17.9	21.1
405422 2004 RJ_{322}	16.5	X	325.34556	160.90052	259.23890	7.43353	0.2748293	0.18886736	3.0086022	20	11 17.2	18.9
405423 2004 RE_{328}	16.6	X	341.43367	41.45844	345.51833	8.26987	0.1906807	0.18804368	3.0173815	20	11 2.6	19.9
405424 2004 RS_{335}	18.6	X	223.98275	152.86582	215.70294	5.86480	0.1937304	0.29000084	2.2604932	20	4 20.9	22.2
405425 2004 RE_{346}	17.8	X	193.30732	211.36554	199.68660	3.27473	0.1708326	0.28950016	2.2630988	20	5 19.4	21.4
405426 2004 SL_{2}	15.9	X	69.48735	316.70364	17.66356	9.71191	0.0838311	0.19686136	2.9265934	20	12 25.2	20.3
405427 2004 ST_{9}	18.0	X	309.91021	60.10841	195.03338	12.23096	0.4381363	0.29283948	2.2458615	20	1 19.5	21.9
405428 2004 ST_{34}	16.4	X	331.17743	240.31941	208.60997	10.09559	0.0953035	0.19890575	2.9065055	20	—	—
405429 2004 SF_{35}	18.5	X	235.29943	112.50577	269.25806	4.35932	0.1779834	0.29583950	2.2306526	20	5 20.3	21.9
405430 2004 SX_{48}	16.7	X	29.45163	334.52297	3.62855	4.89710	0.2119666	0.19188065	2.9770213	20	11 27.4	20.5
405431 2004 SJ_{49}	17.7	X	256.43986	297.76022	40.94955	7.77894	0.1877084	0.29339996	2.2430004	20	4 15.5	20.8
405432 2004 TF_{2}	18.0	X	231.89067	8.59448	19.27075	4.76937	0.1446163	0.29450548	2.2373836	20	5 27.7	21.2
405433 2004 TW_{4}	17.8	X	38.98684	140.97584	203.69589	7.53445	0.3224382	0.19137720	2.9822399	20	—	—
405434 2004 TT_{21}	16.1	X	52.07114	157.83234	200.44797	19.24514	0.0744998	0.19604631	2.9346993	20	12 30.3	20.6
405435 2004 TJ_{27}	18.3	X	164.03919	39.30347	4.25290	3.60098	0.1576039	0.28474881	2.2882042	20	4 10.1	21.8
405436 2004 TT_{35}	18.1	X	282.48333	298.32526	16.62855	6.59509	0.2051718	0.29341016	2.2429484	20	4 9.1	21.1
405437 2004 TC_{51}	16.0	X	255.69802	41.74678	27.70572	9.87964	0.1145219	0.17513370	3.1639010	20	8 23.5	20.6
405438 2004 TE_{64}	16.6	X	280.32478	242.23478	189.49248	5.94448	0.1186428	0.18232721	3.0801253	20	9 23.0	20.6
405439 2004 TG_{64}	16.2	X	327.72833	0.74669	28.20706	12.23823	0.2160742	0.18384011	3.0632036	20	10 10.9	19.1
405440 2004 TO_{78}	16.0	X	336.28847	79.12803	268.15348	13.61936	0.2600463	0.18052744	3.1005631	20	8 18.6	19.2

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405441 2004 TD_{83}	16.9	X	21.55738	92.16402	223.98966	1.66931	0.1173305	0.18423670	3.0588061	20	10 4.1	20.8
405442 2004 TL_{83}	16.7	X	100.34995	84.27189	194.93519	14.95739	0.1417487	0.19284972	2.9670398	20	11 27.7	21.5
405443 2004 TT_{83}	16.5	X	325.82371	193.60850	206.24083	4.24494	0.1593428	0.18637934	3.0353181	20	10 23.3	19.8
405444 2004 TL_{84}	18.4	X	220.81304	5.51222	4.09488	2.63222	0.1257539	0.29008178	2.2600727	20	4 22.4	21.5
405445 2004 TU_{85}	17.6	X	183.11570	250.76563	191.43006	5.33920	0.1068439	0.29396095	2.2401458	20	6 20.8	20.7
405446 2004 TP_{86}	16.5	X	273.44683	92.76352	15.26334	10.36998	0.0686049	0.18922723	3.0047865	20	11 4.7	20.7
405447 2004 TV_{90}	18.1	X	228.68659	6.68335	348.55588	2.84701	0.1761768	0.28872525	2.2671463	20	4 8.4	21.6
405448 2004 TM_{99}	16.6	X	64.95075	112.24391	189.52096	6.65888	0.1524445	0.18879119	3.0094114	20	11 18.9	21.0
405449 2004 TN_{112}	15.5	X	40.20835	42.69288	314.04477	14.29295	0.0902101	0.19102933	2.9858594	20	12 18.0	19.8
405450 2004 TR_{151}	16.6	X	247.35666	253.49731	203.74149	8.15526	0.1835602	0.18014296	3.1049732	20	9 1.8	21.3
405451 2004 TT_{175}	17.6	X	275.27234	304.49469	42.99140	6.96372	0.1912855	0.29599807	2.2298559	20	5 17.5	20.4
405452 2004 TV_{197}	17.4	X	2.69681	203.97255	29.64229	7.14310	0.0509832	0.28933040	2.2639839	20	5 9.2	19.8
405453 2004 TB_{206}	16.8	X	15.05981	329.37321	50.12244	5.18234	0.2652197	0.18950945	3.0018027	20	—	—
405454 2004 TP_{221}	16.8	X	0.48263	214.11589	179.63087	4.40001	0.2362702	0.19141453	2.9818522	20	12 28.2	20.1
405455 2004 TN_{238}	18.3	X	181.01406	138.40932	266.76889	2.28628	0.2063289	0.28583975	2.2823783	20	4 29.4	22.1
405456 2004 TG_{244}	18.1	X	249.25649	13.26172	332.19948	2.27907	0.2586959	0.29256581	2.2472618	20	4 8.6	21.8
405457 2004 TF_{250}	16.8	X	29.44426	335.38231	27.84440	2.39396	0.2351521	0.19085681	2.9876584	20	—	—
405458 2004 TC_{266}	16.0	X	225.51693	73.81945	37.16397	5.12615	0.1604841	0.17709959	3.1404436	20	9 2.8	20.8
405459 2004 TX_{275}	16.1	X	23.59377	104.14280	219.40321	9.17041	0.0607376	0.18063854	3.0992916	20	10 7.8	20.4
405460 2004 TT_{276}	17.3	X	334.35887	331.57350	93.10120	1.04908	0.2715083	0.18817993	3.0159248	20	12 18.5	19.7
405461 2004 TR_{277}	16.0	X	54.94988	277.59703	46.37685	12.79055	0.1503964	0.18773037	3.0207378	20	12 1.2	20.4
405462 2004 TS_{293}	17.5	X	341.34792	108.01688	277.68067	1.43196	0.1635746	0.18456357	3.0551936	20	11 1.4	20.8
405463 2004 TT_{337}	16.0	X	273.11549	53.83466	18.43231	11.22123	0.0868327	0.18289423	3.0737560	20	9 21.7	20.1
405464 2004 TE_{338}	18.0	X	182.88698	210.33391	192.43655	3.85972	0.1506913	0.28687608	2.2768784	20	4 28.6	21.5
405465 2004 TA_{350}	16.9	X	23.47806	243.39458	143.36057	2.65885	0.1031996	0.19762300	2.9190692	20	—	—
405466 2004 TE_{367}	15.5	X	43.05630	85.06455	282.85013	8.69892	0.1076962	0.19126778	2.9833772	20	—	—
405467 2004 VP_{1}	17.4	X	186.59682	1.14338	28.59352	8.96783	0.2668871	0.28403450	2.2920389	20	4 16.0	21.4
405468 2004 VS_{11}	15.7	X	241.22731	26.17473	53.94141	15.11145	0.2467808	0.17274626	3.1929855	20	8 4.8	21.0
405469 2004 VL_{23}	16.5	X	49.30214	312.80051	40.53458	4.10300	0.3726360	0.19285332	2.9670029	20	—	—
405470 2004 VT_{34}	16.3	X	335.60344	192.64771	209.79371	9.14224	0.0965537	0.18488899	3.0516076	20	11 12.9	20.0
405471 2004 VQ_{36}	18.0	X	267.42917	301.12143	43.82644	3.33599	0.2727384	0.29379996	2.2409641	20	4 24.8	21.2
405472 2004 VX_{53}	17.2	X	219.94608	302.28154	59.66567	6.70974	0.2564520	0.28618684	2.2805326	20	4 9.2	21.1
405473 2004 VY_{68}	16.7	X	355.33159	234.50956	162.26638	1.11159	0.1935754	0.18662872	3.0326135	20	12 15.8	20.1
405474 2004 VO_{78}	16.6	X	137.00258	87.10666	22.95180	22.17294	0.2644420	0.28170829	2.3046393	20	6 14.0	20.9
405475 2004 VP_{96}	15.9	X	219.81804	57.13559	35.03546	9.01719	0.1950078	0.16935334	3.2354910	20	8 2.7	21.2
405476 2004 VG_{112}	16.3	X	244.48877	195.83651	265.29383	4.91069	0.2665839	0.17642743	3.1484150	20	8 24.6	21.3
405477 2004 WE	18.0	X	222.67014	315.27499	92.94902	3.67069	0.1734506	0.29275446	2.2462962	20	6 13.2	21.2
405478 2004 WN	18.5	X	219.95250	300.93162	104.00149	2.84244	0.2541345	0.29179577	2.2512137	20	5 31.7	22.0
405479 2004 XR	15.6	X	12.46132	357.80685	16.76580	10.56951	0.2360697	0.18645089	3.0345415	20	12 21.4	19.4
405480 2004 XX	15.7	X	15.72585	117.35521	273.17520	10.05918	0.2036303	0.19117327	2.9843605	20	—	—
405481 2004 XG_{2}	15.2	X	30.11785	57.85089	266.64627	14.76267	0.0332366	0.18055591	3.1002371	20	10 9.8	19.7
405482 2004 XT_{2}	16.7	X	306.17849	26.02226	55.38620	2.59032	0.2448662	0.18373913	3.0643258	20	11 2.4	19.7
405483 2004 XR_{6}	15.7	X	309.73753	174.22006	274.89753	12.61376	0.2343766	0.18485058	3.0520303	20	11 20.7	18.8
405484 2004 XP_{11}	16.0	X	105.84017	196.31717	271.32079	25.50777	0.1833575	0.27492224	2.3424094	20	5 2.6	19.7
405485 2004 XW_{16}	15.1	X	63.57551	268.29950	84.29885	13.53140	0.2706066	0.19028991	2.9935893	20	—	—
405486 2004 XU_{18}	17.5	X	219.96350	322.83035	85.53328	5.60847	0.1719772	0.29033816	2.2587421	20	6 10.7	20.6
405487 2004 XH_{67}	16.4	X	252.12854	20.58465	64.63378	5.40384	0.1623303	0.17207361	3.2013012	20	8 30.3	21.1
405488 2004 XZ_{68}	17.4	X	145.71433	357.94628	69.87421	7.49179	0.2159788	0.28112193	2.3078429	20	4 30.5	21.1
405489 2004 XZ_{91}	16.8	X	312.90793	314.51000	69.56266	2.38939	0.0949816	0.17435802	3.1732778	20	9 13.1	20.8
405490 2004 XR_{92}	16.3	X	303.67050	0.59144	56.89186	9.27876	0.2700216	0.18051797	3.1006715	20	9 25.2	19.7
405491 2004 XF_{103}	15.6	X	249.43563	147.32081	319.93867	14.02979	0.2394443	0.17363969	3.1820235	20	9 6.9	20.6
405492 2004 XE_{104}	16.3	X	295.46739	31.83028	73.91934	11.37546	0.2683683	0.18209565	3.0827360	20	11 12.1	19.6
405493 2004 XE_{108}	15.4	X	309.45845	131.20619	288.71217	22.62557	0.1784686	0.17894084	3.1188638	20	10 2.6	19.6
405494 2004 XY_{150}	18.1	X	123.79922	17.45710	52.09886	5.59287	0.2078594	0.27568898	2.3380642	20	4 10.7	21.5
405495 2004 XP_{154}	15.7	X	83.47198	239.03126	82.84927	14.44315	0.1686508	0.18622776	3.0369649	20	12 30.8	20.5
405496 2004 XL_{182}	17.1	X	98.04430	169.47125	290.93828	10.25603	0.1428720	0.27699322	2.3307192	20	4 4.4	20.2
405497 2004 XS_{191}	15.8	X	293.82262	81.46168	28.26553	14.90342	0.2499856	0.17924247	3.1153638	20	11 10.6	19.3
405498 2004 XQ_{192}	16.5	X	317.96263	342.68712	98.14989	13.78929	0.1979602	0.18368437	3.0649349	20	12 2.4	19.8
405499 2005 AR_{12}	17.3	X	122.45895	351.84949	97.74209	3.36295	0.1769802	0.27544049	2.3394703	20	5 1.9	20.5
405500 2005 AY_{23}	18.2	X	118.25562	99.39490	351.86851	2.51798	0.1480328	0.27354087	2.3502888	20	4 23.8	21.3
405501 2005 AH_{32}	16.2	X	25.59955	304.86910	96.91217	5.89286	0.2667708	0.19000737	2.9965562	20	—	—
405502 2005 AY_{39}	15.8	X	295.62727	69.11110	20.47108	16.26773	0.2289359	0.17809028	3.1287864	20	10 22.1	19.3
405503 2005 AW_{40}	17.3	X	13.55572	25.37832	116.57653	7.96054	0.2002035	0.26222056	2.4174540	20	1 6.1	19.2
405504 2005 AN_{47}	16.7	X	310.26797	249.13553	192.39765	3.07365	0.2549774	0.18137826	3.0908592	20	11 9.9	19.5
405505 2005 AO_{61}	17.3	X	41.28701	58.30870	102.41825	7.39086	0.1583888	0.26801929	2.3824585	20	4 11.9	19.6
405506 2005 AB_{65}	17.7	X	5.26425	64.36114	130.06462	4.78731	0.1379861	0.26800075	2.3825684	20	3 16.2	19.8
405507 2005 AT_{68}	17.0	X	96.44034	3.23609	108.06053	6.98888	0.0840151	0.27065664	2.3669564	20	4 18.4	20.0
405508 2005 BG_{2}	16.4	X	199.03173	68.90756	345.64606	23.34552	0.3456103	0.28539838	2.2847309	20	5 15.8	21.2
405509 2005 BT_{7}	16.6	X	313.67428	118.26663	337.53106	3.44330	0.2657793	0.18247520	3.0784598	20	12 6.6	19.5
405510 2005 BD_{18}	15.7	X	342.40525	312.28308	102.59876	16.70428	0.2380720	0.18290279	3.0736600	20	12 19.1	18.7
405511 2005 BO_{49}	17.6	X	78.34600	292.90741	317.36583	16.10978	0.0551883	0.35414155	1.9785702	20	10 4.5	20.2
405512 2005 CF_{7}	17.1	X	180.49760	206.88203	319.03155	19.27265	0.1128863	0.35925342	1.9597565	20	10 9.1	20.0
405513 2005 CM_{27}	15.9	X	279.98417	306.63321	142.51278	17.17224	0.2115821	0.17463415	3.1699319	20	10 5.2	20.2
405514 2005 CR_{40}	17.7	X	159.45628	13.78981	353.18416	6.51398	0.1524089	0.26563744	2.3966790	20	2 21.8	21.2
405515 2005 CD_{44}	17.7	X	314.50401	216.87105	6.65148	2.12981	0.1363732	0.26055458	2.4277479	20	2 1.5	20.5
405516 2005 CL_{49}	16.7	X	43.21968	169.35167	321.66282	14.64451	0.0386158	0.26309866	2.4120721	20	2 16.8	19.5
405517 2005 CQ_{61}	17.5	X	112.67560	295.05084	335.06191	18.16968	0.0616375	0.36279508	1.9469814	20	—	—
405518 2005 CJ_{67}	15.6	X	309.45710	328.94580	142.24479	13.97504	0.1384010	0.17961128	3.1110977	20	12 26.0	19.5
405519 2005 CS_{80}	15.6	X	251.05731	116.29238	9.45842	15.31074	0.1477130	0.17112834	3.2130791	20	10 14.5	20.3
405520 2005 EA_{1}	17.7	X	62.52149	133.45513	356.40062	4.19051	0.1845682	0.26418004	2.4054854	20	4 4.6	20.0

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405521 2005 EQ_{30}	17.3	X	22.46131	269.00170	159.63104	22.73387	0.0906878	0.37609988	1.9007890	20	—	—
405522 2005 EM_{53}	17.6	X	127.46860	263.32806	166.79105	6.81704	0.1861131	0.26824664	2.3811122	20	4 13.3	21.0
405523 2005 EG_{60}	17.7	X	31.62304	230.11837	266.28182	3.37970	0.1786825	0.26050972	2.4280265	20	2 8.4	19.7
405524 2005 EC_{65}	16.3	X	291.28307	119.10536	3.61170	9.89024	0.1851555	0.17714712	3.1398819	20	12 2.0	20.2
405525 2005 EA_{70}	17.1	X	305.34743	343.37799	139.03796	23.43292	0.0671936	0.37150701	1.9164230	20	—	—
405526 2005 EY_{104}	17.9	X	187.16231	59.96152	329.68292	4.63108	0.1694510	0.27532032	2.3401509	20	4 13.5	21.6
405527 2005 EH_{130}	18.1	X	288.27532	143.39102	325.47392	18.10750	0.0780810	0.36917793	1.9244748	20	—	—
405528 2005 EZ_{131}	16.8	X	59.59894	105.55646	5.31642	14.24985	0.1225292	0.26322556	2.4112968	20	2 28.4	19.4
405529 2005 EQ_{141}	17.6	X	223.05935	38.16028	177.11507	4.01608	0.1744221	0.24253006	2.5465898	20	—	—
405530 2005 EM_{159}	16.6	X	304.07786	320.46665	177.32723	10.67092	0.1853761	0.17898703	3.1183272	20	—	—
405531 2005 EK_{168}	17.5	X	107.08945	254.98348	181.78314	9.83482	0.1903294	0.26410940	2.4059142	20	3 29.5	20.7
405532 2005 EE_{172}	15.8	X	295.87475	286.70276	184.87521	25.30168	0.2968859	0.17530233	3.1618718	20	11 14.3	19.5
405533 2005 EM_{256}	17.8	X	7.06018	179.10145	327.63563	1.93809	0.1385107	0.25566543	2.4586009	20	1 9.5	20.3
405534 2005 EN_{295}	15.7	X	253.41852	122.98589	17.87504	27.56535	0.2214691	0.17181620	3.2044978	20	10 22.5	20.4
405535 2005 EN_{310}	17.7	X	141.19537	258.48466	149.06799	5.66599	0.2180161	0.26933668	2.3746834	20	3 31.9	21.4
405536 2005 EZ_{311}	18.0	X	84.98347	102.36368	357.20413	5.04949	0.0780766	0.26448337	2.4036458	20	3 12.5	20.6
405537 2005 EQ_{328}	18.3	X	174.32104	72.50991	344.42528	1.42729	0.2474482	0.28004525	2.3137543	20	5 9.8	22.3
405538 2005 GR_{3}	17.7	X	252.22999	182.24561	41.00487	9.19159	0.2228518	0.24340391	2.5404911	20	—	—
405539 2005 GY_{28}	16.9	X	352.34067	179.00990	14.03087	6.32401	0.1364843	0.25772346	2.4454948	20	2 20.9	19.5
405540 2005 GR_{38}	17.7	X	234.79710	198.52186	5.99951	8.07830	0.1440417	0.23812790	2.5778790	20	—	—
405541 2005 GM_{44}	17.2	X	6.37128	220.96318	314.43918	2.34902	0.1151437	0.25786534	2.4445977	20	2 19.7	19.7
405542 2005 GE_{49}	17.6	X	278.64302	11.32555	187.60008	5.40066	0.0590391	0.24472216	2.5313596	20	—	—
405543 2005 GN_{97}	17.2	X	357.45536	359.49371	151.06407	5.10647	0.0689540	0.25040560	2.4929105	20	1 7.3	20.2
405544 2005 GH_{99}	17.9	X	41.89956	269.59588	233.84180	1.66537	0.1402182	0.25809000	2.4431789	20	3 11.1	20.3
405545 2005 GN_{209}	17.0	X	214.99516	115.76888	145.44329	13.89925	0.2198606	0.24060657	2.5601440	20	—	—
405546 2005 JU_{21}	17.5	X	202.25629	54.07866	192.90389	13.26009	0.2240028	0.23548183	2.5971545	20	—	—
405547 2005 JV_{35}	17.2	X	214.97341	138.54333	110.93736	6.72227	0.0749909	0.23723639	2.5843332	20	—	—
405548 2005 JH_{65}	17.2	X	240.94405	120.24544	96.80574	5.11512	0.1290443	0.23887491	2.5725018	20	—	—
405549 2005 JO_{121}	17.0	X	135.31102	237.90638	87.06071	8.39689	0.2103811	0.23285830	2.6166255	20	—	—
405550 2005 JM_{133}	17.2	X	213.98969	104.56431	117.71965	4.69281	0.2096810	0.23413707	2.6070894	20	—	—
405551 2005 JM_{166}	16.7	X	177.28736	199.31799	36.44139	13.13483	0.2451867	0.22942036	2.6427013	20	12 13.3	21.4
405552 2005 KF_{5}	16.9	X	221.39209	171.05609	62.09159	13.94184	0.1315676	0.23641318	2.5903290	20	—	—
405553 2005 LP_{5}	16.7	X	175.33537	43.68646	231.57518	12.26007	0.2306875	0.23167446	2.6255318	20	—	—
405554 2005 LB_{7}	16.9	X	155.92630	249.56026	87.11366	13.08384	0.2373118	0.23697670	2.5862209	20	1 22.3	21.2
405555 2005 LQ_{14}	17.6	X	250.23347	148.27478	156.32725	6.99899	0.1150659	0.25261369	2.4783623	20	3 4.5	21.1
405556 2005 ML_{48}	16.4	X	184.61727	126.84080	141.43007	15.01697	0.0723460	0.22732648	2.6589043	20	—	—
405557 2005 NF_{15}	16.9	X	118.00154	44.00954	297.35441	13.15230	0.2115374	0.22560950	2.6723774	20	—	—
405558 2005 NP_{43}	16.7	X	271.57527	265.48015	287.86683	8.82433	0.1426448	0.23255100	2.6189301	20	—	—
405559 2005 NU_{55}	16.8	X	124.52089	124.05103	202.39943	11.93917	0.2934862	0.22293701	2.6936920	20	—	—
405560 2005 NP_{118}	17.5	X	259.19221	38.86925	133.77748	4.17555	0.0421898	0.22403277	2.6849014	20	—	—
405561 2005 NQ_{123}	16.8	X	143.79612	5.68207	330.35148	14.97346	0.2119977	0.22890665	2.6466537	20	1 11.4	21.1
405562 2005 OJ_{3}	18.0	X	86.35357	155.91532	238.33917	4.50874	0.5432459	0.22197454	2.7014729	20	3 1.6	22.1
405563 2005 OC_{9}	18.0	X	140.83916	112.67904	186.31060	4.96978	0.2423922	0.22405707	2.6847073	20	—	—
405564 2005 ON_{27}	16.9	X	101.34490	172.11498	181.37977	9.31119	0.1785779	0.22085421	2.7106010	20	—	—
405565 2005 QF_{11}	17.7	X	110.39403	105.74508	236.19336	3.31979	0.2735145	0.22190072	2.7020720	20	—	—
405566 2005 QC_{19}	16.6	X	141.58588	137.23490	181.55359	13.30495	0.1914361	0.22455736	2.6807183	20	—	—
405567 2005 QQ_{50}	16.7	X	141.74536	332.61609	15.92345	7.86516	0.1535124	0.22613620	2.6682262	20	1 17.6	20.8
405568 2005 QB_{60}	16.0	X	108.80926	352.40770	348.76844	26.39541	0.1524807	0.21928209	2.7235411	20	—	—
405569 2005 QR_{65}	17.1	X	121.33341	149.34165	189.16916	6.57358	0.2893848	0.22270497	2.6955627	20	—	—
405570 2005 QR_{67}	17.9	X	99.76092	305.62442	21.93542	3.52934	0.1912870	0.21592919	2.7516624	20	—	—
405571 2005 QE_{87}	18.3	X	46.05422	233.27043	157.90196	21.48908	0.1392467	0.41366498	1.7838988	20	—	—
405572 2005 QR_{93}	16.9	X	17.14623	294.46083	125.88822	8.62718	0.2254605	0.21304490	2.7764421	20	—	—
405573 2005 QW_{122}	16.8	X	212.17522	55.55519	166.69517	17.82623	0.1035162	0.21912124	2.7248739	20	—	—
405574 2005 QB_{124}	17.8	X	78.23889	345.96800	342.68077	3.11330	0.0952567	0.21236043	2.7824048	20	—	—
405575 2005 QY_{128}	17.1	X	115.92192	196.35577	138.27436	5.75735	0.1230176	0.22015985	2.7162973	20	—	—
405576 2005 QY_{134}	17.3	X	92.07774	5.20364	0.54532	5.54200	0.1258824	0.21943241	2.7222971	20	—	—
405577 2005 QM_{135}	17.3	X	92.73403	209.98200	159.93484	3.78725	0.1158190	0.22005859	2.7171305	20	—	—
405578 2005 QB_{140}	17.3	X	54.06813	286.41374	91.89262	1.30266	0.0836546	0.21485012	2.7608680	20	—	—
405579 2005 QY_{142}	17.3	X	164.83370	290.11785	346.91458	7.41426	0.1625488	0.22241484	2.6979063	20	—	—
405580 2005 QZ_{173}	16.9	X	90.60261	345.15850	345.46993	11.15430	0.1682045	0.21608591	2.7503317	20	—	—
405581 2005 QT_{189}	17.8	X	71.48562	45.66958	325.02591	2.44401	0.2056310	0.21740166	2.7392236	20	—	—
405582 2005 RK_{13}	17.0	X	124.25584	229.59673	111.14245	9.45650	0.2707367	0.22463857	2.6800722	20	1 2.1	20.8
405583 2005 RZ_{44}	16.4	X	92.65770	345.79705	336.46526	22.04039	0.2421445	0.21208988	2.7847705	20	—	—
405584 2005 RJ_{48}	17.2	X	53.97132	50.85967	320.26912	12.57073	0.2235924	0.21143276	2.7905375	20	—	—
405585 2005 SF_{9}	16.5	X	80.71390	345.87926	39.67692	10.97883	0.2786861	0.22004075	2.7172773	20	1 5.4	19.6
405586 2005 ST_{13}	16.8	X	59.93096	26.70615	16.55989	5.06494	0.1667913	0.21685774	2.7438020	20	—	—
405587 2005 SY_{14}	17.7	X	47.52366	249.32942	206.33738	5.63849	0.3920309	0.21878845	2.7276363	20	2 21.6	19.4
405588 2005 SM_{29}	16.4	X	223.60589	132.73273	359.59067	11.17566	0.0595359	0.19708130	2.9244157	20	10 6.7	20.7
405589 2005 SL_{30}	16.5	X	52.88615	208.43417	194.89989	7.34574	0.2252276	0.21598868	2.7511571	20	—	—
405590 2005 SE_{45}	19.4	X	307.56742	39.69951	299.32334	1.16524	0.2066476	0.32159846	2.1098913	20	6 27.1	20.8
405591 2005 SK_{46}	16.4	X	9.02426	8.90722	7.61199	9.83031	0.0956488	0.20320914	2.8653250	20	12 2.2	20.2
405592 2005 SV_{46}	16.8	X	72.58150	35.25938	4.86662	8.34212	0.2372832	0.21802511	2.7339991	20	1 4.9	19.8
405593 2005 SM_{55}	16.8	X	75.55867	339.12977	25.86797	2.91764	0.1882739	0.21378735	2.7700103	20	—	—
405594 2005 SH_{61}	17.3	X	127.44612	272.82182	33.20625	2.09087	0.1476361	0.21474505	2.7617685	20	—	—
405595 2005 SJ_{74}	17.4	X	47.87218	211.56774	196.56475	1.77378	0.0909368	0.21711226	2.7416572	20	—	—
405596 2005 SE_{79}	17.0	X	58.53502	220.71989	162.45732	3.82360	0.1050734	0.21467806	2.7623430	20	—	—
405597 2005 SR_{80}	16.9	X	35.95810	348.14341	24.27338	5.14008	0.1686116	0.20890333	2.8130178	20	—	—
405598 2005 SF_{86}	16.6	X	88.51974	312.83409	18.87302	15.28014	0.1092777	0.21175767	2.7876823	20	—	—
405599 2005 SD_{94}	17.1	X	93.06704	54.23843	326.93327	3.65505	0.1256121	0.22409513	2.6844033	20	—	—
405600 2005 SC_{102}	16.5	X	148.35405	303.16062	352.25646	8.26441	0.1733157	0.21716601	2.7412047	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405601 2005 SS_{106}	17.2	X	26.67211	200.72205	204.43111	1.83999	0.0618975	0.21251119	2.7810887	20	—	—
405602 2005 SU_{108}	16.9	X	143.92914	94.26845	198.79770	12.84500	0.1206199	0.21520118	2.7578647	20	—	—
405603 2005 SD_{114}	17.3	X	21.10235	76.67117	340.51397	1.04417	0.0508337	0.21378314	2.7700466	20	—	—
405604 2005 SV_{116}	17.0	X	101.11765	153.88124	189.32366	8.44560	0.1558495	0.21874032	2.7280364	20	—	—
405605 2005 SZ_{131}	16.8	X	64.92315	144.58261	207.98006	3.51212	0.1114714	0.20950273	2.8076497	20	—	—
405606 2005 SK_{141}	17.0	X	69.05451	299.36384	88.73845	2.95394	0.0834231	0.21690492	2.7434041	20	—	—
405607 2005 SA_{145}	17.7	X	35.27276	259.41940	162.39296	5.24482	0.1515518	0.21550103	2.7553058	20	—	—
405608 2005 SG_{159}	16.1	X	45.55397	217.28982	208.27700	24.78029	0.0702539	0.21698446	2.7427336	20	—	—
405609 2005 SN_{166}	16.0	X	76.57696	12.94348	26.88008	17.08887	0.2256493	0.21941373	2.7224517	20	1 11.1	19.4
405610 2005 SL_{167}	16.4	X	86.44041	224.90787	118.90783	9.44855	0.2224768	0.21369474	2.7708106	20	—	—
405611 2005 SN_{171}	17.0	X	80.24195	10.73113	12.84226	6.35792	0.0413521	0.21895324	2.7262675	20	—	—
405612 2005 SF_{176}	17.5	X	106.85550	44.35828	283.74657	3.35943	0.1755321	0.21506593	2.7590208	20	—	—
405613 2005 SH_{177}	17.6	X	33.40126	62.38549	342.74891	5.85378	0.0743975	0.21278285	2.7787212	20	—	—
405614 2005 SP_{177}	17.0	X	284.53750	151.58540	338.65387	6.79189	0.1173268	0.20718411	2.8285580	20	12 20.3	20.4
405615 2005 SC_{185}	17.1	X	26.25854	185.35362	224.04719	3.95720	0.1635990	0.21109698	2.7934959	20	—	—
405616 2005 SK_{185}	17.6	X	35.90742	13.82187	12.79691	3.42037	0.1009971	0.21125061	2.7921413	20	—	—
405617 2005 SH_{188}	17.3	X	301.33797	293.86956	170.39081	2.10099	0.0294028	0.20597623	2.8396053	20	12 17.7	20.9
405618 2005 SY_{198}	17.0	X	296.46972	137.62188	0.84913	4.40139	0.0410276	0.21298123	2.7769954	20	—	—
405619 2005 SU_{200}	17.1	X	115.37789	115.25215	183.04381	3.91003	0.1879160	0.21293857	2.7773663	20	—	—
405620 2005 SQ_{215}	16.7	X	46.07436	64.60307	6.58292	10.11757	0.2721547	0.21549732	2.7553375	20	—	—
405621 2005 SH_{218}	16.7	X	116.87046	147.36288	190.86686	7.90092	0.2817973	0.21813597	2.7330728	20	—	—
405622 2005 SC_{228}	16.9	X	4.25387	26.65548	28.85027	3.58861	0.1127359	0.20911537	2.8111159	20	—	—
405623 2005 SP_{228}	17.0	X	57.51715	44.12996	1.62860	5.27284	0.1312113	0.21838654	2.7309818	20	—	—
405624 2005 ST_{230}	17.5	X	330.55981	267.31325	196.40596	8.82942	0.1128948	0.21083862	2.7957775	20	—	—
405625 2005 SM_{267}	17.0	X	84.92179	18.68190	329.25029	8.01917	0.2057352	0.21614781	2.7498067	20	—	—
405626 2005 SS_{271}	17.4	X	98.64426	1.53965	338.42315	3.99087	0.0891282	0.21547165	2.7555563	20	—	—
405627 2005 SL_{275}	17.1	X	50.81277	98.47420	282.77533	3.23763	0.0853768	0.21217016	2.7840680	20	—	—
405628 2005 SW_{280}	16.4	X	83.30582	29.87649	353.45230	9.59474	0.1958041	0.21630849	2.7484447	20	—	—
405629 2005 TG_{5}	16.2	X	293.33149	119.08503	349.94445	8.37267	0.3891970	0.19817262	2.9136694	20	10 21.3	19.1
405630 2005 TX_{7}	17.3	X	347.99594	257.15461	148.37384	2.65262	0.0652327	0.20354586	2.8621641	20	12 8.3	20.8
405631 2005 TS_{8}	17.0	X	109.84517	298.09241	31.30615	11.61825	0.1224776	0.21433040	2.7653294	20	—	—
405632 2005 TZ_{9}	16.7	X	83.95648	48.98218	339.99532	13.03147	0.2170359	0.21922767	2.7239919	20	1 7.2	20.1
405633 2005 TC_{28}	15.9	X	123.23310	334.94564	31.97708	17.75240	0.1849757	0.22260165	2.6963968	20	1 28.5	20.2
405634 2005 TB_{37}	17.2	X	29.49319	39.41122	345.16716	3.86041	0.0785485	0.20985850	2.8044756	20	—	—
405635 2005 TF_{39}	16.5	X	51.83834	23.34082	23.17072	6.83658	0.1001144	0.21479860	2.7613095	20	—	—
405636 2005 TE_{41}	17.1	X	74.98987	184.47819	176.43611	4.51057	0.0857797	0.21240052	2.7820547	20	—	—
405637 2005 TY_{43}	16.3	X	54.48799	13.96541	27.69754	12.66487	0.0886990	0.21732302	2.7398843	20	—	—
405638 2005 TR_{66}	17.6	X	125.72694	71.50148	242.75840	3.27820	0.0564167	0.21615939	2.7497084	20	—	—
405639 2005 TO_{67}	17.7	X	141.07452	36.16728	250.28358	2.39175	0.1649217	0.21607103	2.7504580	20	—	—
405640 2005 TY_{90}	17.5	X	67.00016	295.03005	34.29535	3.40150	0.1729299	0.20914073	2.8108886	20	12 29.3	21.7
405641 2005 TK_{91}	17.3	X	107.27309	284.18669	36.17003	3.99938	0.0865863	0.21421072	2.7663593	20	—	—
405642 2005 TT_{92}	17.3	X	50.16274	86.81278	299.34277	4.62476	0.0780660	0.21200653	2.7855004	20	—	—
405643 2005 TJ_{98}	17.2	X	45.17669	59.75091	353.41166	7.76247	0.2946001	0.21223944	2.7834621	20	—	—
405644 2005 TW_{100}	16.8	X	81.55765	77.47560	277.99496	3.22622	0.0873023	0.21419129	2.7665266	20	—	—
405645 2005 TF_{113}	17.3	X	104.39093	334.93518	341.58027	2.59378	0.1715133	0.21301997	2.7766587	20	—	—
405646 2005 TF_{115}	17.3	X	70.15664	28.45260	340.02817	2.77678	0.1058719	0.21407630	2.7675171	20	—	—
405647 2005 TE_{125}	16.9	X	0.99792	232.50181	211.40470	8.80515	0.2037479	0.20991886	2.8039381	20	—	—
405648 2005 TY_{132}	15.6	X	234.17787	201.38858	283.02104	10.34315	0.2259736	0.18386263	3.0629535	20	9 13.7	20.6
405649 2005 TU_{138}	16.9	X	151.94823	231.71970	46.64872	5.54565	0.1620903	0.21451867	2.7637112	20	—	—
405650 2005 TP_{142}	16.9	X	63.12604	184.29838	168.28626	5.32948	0.1644332	0.20960357	2.8067492	20	—	—
405651 2005 TE_{157}	17.4	X	349.68458	119.88728	315.95610	2.88710	0.0786168	0.20909408	2.8113067	20	—	—
405652 2005 TS_{162}	17.3	X	54.31599	38.28893	346.51034	2.90814	0.0952768	0.21188325	2.7865808	20	—	—
405653 2005 TL_{197}	15.9	X	91.83125	95.08780	263.63637	14.65471	0.1058287	0.21638966	2.7477573	20	—	—
405654 2005 UP_{26}	16.6	X	62.69217	329.95464	52.86021	7.11227	0.0717383	0.21219233	2.7838741	20	—	—
405655 2005 UB_{29}	16.6	X	122.91648	322.93712	37.37018	10.11044	0.2514025	0.22060719	2.7126241	20	1 25.5	20.8
405656 2005 UU_{66}	16.5	X	104.68614	287.48670	72.27729	13.14173	0.1792076	0.21862378	2.7290058	20	—	—
405657 2005 UY_{69}	16.6	X	64.79806	85.37160	320.62354	8.36782	0.2485846	0.21678484	2.7444170	20	—	—
405658 2005 UR_{76}	16.2	X	80.43706	135.94887	248.59396	14.32040	0.3310260	0.21646217	2.7471437	20	1 9.6	19.4
405659 2005 US_{85}	16.4	X	58.39892	194.63522	197.84705	6.32902	0.1034759	0.21291580	2.7775643	20	—	—
405660 2005 UJ_{97}	16.8	X	62.12006	310.15894	79.16061	5.90910	0.0539533	0.21176393	2.7876274	20	—	—
405661 2005 UR_{105}	16.5	X	219.56073	56.35228	64.63887	9.31717	0.1812045	0.18691528	3.0295132	20	9 10.7	21.4
405662 2005 UR_{111}	16.4	X	69.47630	321.37698	44.93820	9.91436	0.1681604	0.20913360	2.8109525	20	—	—
405663 2005 UQ_{125}	17.0	X	7.45043	152.15294	238.56365	4.99925	0.0719844	0.20149496	2.8815529	20	12 16.7	20.8
405664 2005 UE_{140}	18.4	X	323.52679	98.40217	208.62454	5.78890	0.2012652	0.31821864	2.1248045	20	6 7.9	19.8
405665 2005 UX_{156}	17.1	X	39.06262	70.11692	335.09950	1.23495	0.0778117	0.21096784	2.7946357	20	—	—
405666 2005 UC_{158}	17.3	X	97.47602	125.91316	219.28604	2.85690	0.1026913	0.21289786	2.7777203	20	—	—
405667 2005 UW_{170}	17.2	X	9.61135	22.88913	345.59175	1.29733	0.0911828	0.19848562	2.9106055	20	11 22.8	20.9
405668 2005 UH_{171}	16.4	X	19.97547	21.85733	257.04172	1.67629	0.0703583	0.18307590	3.0717221	20	8 8.1	20.5
405669 2005 UT_{185}	16.0	X	259.97519	262.21063	230.97041	16.33967	0.0866231	0.19708623	2.9243670	20	11 20.2	19.8
405670 2005 UC_{187}	16.9	X	54.28044	159.42189	230.81869	5.56762	0.1209205	0.20970774	2.8058196	20	—	—
405671 2005 UP_{187}	17.3	X	35.89768	19.74961	10.62407	2.77186	0.1135177	0.21082361	2.7959102	20	—	—
405672 2005 UR_{189}	17.0	X	47.79689	119.43268	240.16293	0.97655	0.0754919	0.20425290	2.8555553	20	12 31.2	20.9
405673 2005 UX_{189}	17.1	X	28.75380	92.29461	232.30429	3.10602	0.2536878	0.19794920	2.9158615	20	11 18.4	20.6
405674 2005 UN_{192}	17.3	X	82.58515	278.87525	47.56625	2.68754	0.0644086	0.20305730	2.8667532	20	12 29.5	21.4
405675 2005 UF_{200}	17.1	X	42.96846	311.63138	71.48619	3.48841	0.0308967	0.20665531	2.8333812	20	—	—
405676 2005 UE_{212}	17.6	X	347.35250	266.23949	176.60178	1.84141	0.1093687	0.20561802	2.8429023	20	—	—
405677 2005 UZ_{220}	16.6	X	182.16486	267.95638	349.80221	3.89494	0.0242220	0.21037125	2.7999168	20	—	—
405678 2005 UL_{227}	16.9	X	70.48325	307.90531	51.79519	4.28409	0.1045611	0.20877466	2.8141734	20	—	—
405679 2005 US_{227}	16.8	X	195.90842	321.34446	218.17883	9.04539	0.0271142	0.19646985	2.9304801	20	11 7.1	20.8
405680 2005 UY_{240}	16.7	X	144.84859	255.47155	90.88988	7.31102	0.0969137	0.22006285	2.7170955	20	1 11.1	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405681 2005 UU_{247}	17.2	X	5.44165	236.45002	196.96890	3.95730	0.0543041	0.21111919	2.7933000	20	—	—
405682 2005 UX_{250}	16.4	X	38.80977	133.82754	281.82436	7.91933	0.1713831	0.21313220	2.7756839	20	—	—
405683 2005 UE_{269}	16.9	X	25.98384	4.86841	48.73005	3.50428	0.0611327	0.21150258	2.7899233	20	—	—
405684 2005 UG_{279}	17.3	X	6.38429	266.18899	119.06051	1.50125	0.1484359	0.20149787	2.8815251	20	12 17.9	20.6
405685 2005 UR_{286}	17.1	X	10.94161	352.21991	72.45848	5.40725	0.0607826	0.20963380	2.8064793	20	—	—
405686 2005 UX_{305}	17.3	X	349.47195	158.37604	251.06742	1.02101	0.0612930	0.20237915	2.8731538	20	12 14.4	21.0
405687 2005 UH_{306}	16.8	X	71.72731	339.32822	36.39830	7.26807	0.0179945	0.21153505	2.7896378	20	—	—
405688 2005 UU_{319}	17.2	X	23.62919	53.35696	346.64309	1.70416	0.0736342	0.20687695	2.8313571	20	—	—
405689 2005 UA_{320}	17.0	X	8.95769	149.77174	241.53849	5.24253	0.0980162	0.20281146	2.8690694	20	12 22.9	20.7
405690 2005 UB_{323}	16.7	X	70.13981	307.21402	78.82584	4.14434	0.2490393	0.21402396	2.7679683	20	—	—
405691 2005 UK_{327}	16.6	X	45.24569	131.64995	243.80171	13.76073	0.2172053	0.20644341	2.8353197	20	—	—
405692 2005 UH_{338}	17.0	X	104.11752	110.86066	195.60629	4.49788	0.0642092	0.20670646	2.8329137	20	12 29.4	21.2
405693 2005 UX_{344}	17.2	X	186.10204	177.74879	76.64704	2.86405	0.0252550	0.21031691	2.8003990	20	—	—
405694 2005 UO_{362}	16.2	X	352.11262	347.12057	33.91594	12.53590	0.0626297	0.19742790	2.9209920	20	11 9.4	19.9
405695 2005 UU_{366}	16.1	X	58.97171	261.99179	62.85065	13.36532	0.1730892	0.20203122	2.8764515	20	12 13.2	20.4
405696 2005 UG_{388}	17.1	X	83.16608	225.33757	93.48210	3.19711	0.0585163	0.20507030	2.8479621	20	12 20.8	21.1
405697 2005 UH_{398}	17.1	X	92.90584	205.17536	156.73307	2.10772	0.3341495	0.21537067	2.7564176	20	1 2.3	20.4
405698 2005 UO_{418}	17.5	X	2.30295	226.06287	152.36714	2.37537	0.0917387	0.19975878	2.8982252	20	11 26.2	21.2
405699 2005 UC_{491}	16.3	X	28.96866	134.48449	246.40243	14.20467	0.1521887	0.20594934	2.8398524	20	—	—
405700 2005 UG_{500}	17.2	X	20.75093	347.94215	85.63653	11.86961	0.2550696	0.21012380	2.8021145	20	—	—
405701 2005 UX_{514}	17.5	X	65.79993	233.95716	141.44410	4.09294	0.1043996	0.21426842	2.7658626	20	—	—
405702 2005 UV_{521}	17.5	X	15.00863	305.78410	120.99913	4.83649	0.0849051	0.21212599	2.7844545	20	—	—
405703 2005 UZ_{527}	17.8	X	1.62550	10.32165	23.49001	2.18375	0.0731514	0.20275094	2.8696403	20	12 12.8	21.5
405704 2005 VV_{59}	16.6	X	150.15593	86.38846	89.44116	4.55480	0.1434094	0.18640156	3.0350769	20	9 12.4	21.5
405705 2005 VH_{64}	17.0	X	10.35962	254.85023	179.66024	4.34018	0.0433613	0.21100860	2.7942758	20	—	—
405706 2005 VK_{65}	16.8	X	80.50408	294.75495	69.88200	5.29026	0.0821436	0.21215874	2.7841679	20	—	—
405707 2005 VZ_{65}	17.4	X	74.37797	194.59305	186.72535	3.40057	0.2583071	0.21487634	2.7606435	20	—	—
405708 2005 VX_{86}	15.9	X	197.25412	32.01012	120.62766	18.82605	0.2297323	0.17680092	3.1439795	20	9 26.1	21.5
405709 2005 VR_{91}	17.5	X	333.54732	249.88564	179.02026	1.91545	0.0501598	0.20184608	2.8782102	20	12 15.9	21.3
405710 2005 VA_{131}	16.9	X	32.99691	281.44649	139.79276	7.08927	0.0360818	0.21481609	2.7611596	20	—	—
405711 2005 VN_{135}	17.5	X	345.64110	88.06852	351.32452	1.59969	0.0941556	0.20353384	2.8622768	20	—	—
405712 2005 WJ_{28}	17.2	X	64.57850	311.71131	38.07830	2.51667	0.0768075	0.20272539	2.8698814	20	—	—
405713 2005 WK_{35}	16.4	X	257.15216	252.41199	249.79070	8.46615	0.0547912	0.19695766	2.9256394	20	12 1.9	20.3
405714 2005 WO_{36}	17.1	X	322.59089	250.74356	214.80679	1.69826	0.2372256	0.20113110	2.8850271	20	—	—
405715 2005 WU_{39}	16.7	X	308.20760	244.53212	247.19272	1.85209	0.1120147	0.20400383	2.8578790	20	—	—
405716 2005 WR_{42}	16.9	X	41.41986	53.77071	315.09045	1.01535	0.0802082	0.20140864	2.8823761	20	—	—
405717 2005 WB_{66}	17.2	X	274.91470	251.67586	231.63939	3.42528	0.1190620	0.19699321	2.9252874	20	11 23.8	20.9
405718 2005 WK_{79}	17.1	X	74.04148	293.99039	58.86542	2.87833	0.0727888	0.20336561	2.8638551	20	—	—
405719 2005 WR_{103}	16.1	X	348.25802	304.50818	132.47522	12.25723	0.1281960	0.20364125	2.8612702	20	—	—
405720 2005 WT_{114}	16.3	X	356.30545	22.01430	49.15819	7.93729	0.1274009	0.20341133	2.8634259	20	—	—
405721 2005 WR_{143}	17.0	X	92.26623	274.63147	73.75286	8.48201	0.2006468	0.20952481	2.8074524	20	—	—
405722 2005 WV_{157}	16.1	X	225.47912	208.19864	282.54107	10.72052	0.1728545	0.18296264	3.0729897	20	9 17.9	21.2
405723 2005 WF_{163}	16.8	X	37.50156	115.56883	283.51522	5.09730	0.0693547	0.20601427	2.8392558	20	—	—
405724 2005 WJ_{172}	16.9	X	218.46213	112.06829	92.50078	3.24174	0.0084238	0.20344788	2.8630830	20	—	—
405725 2005 WC_{211}	15.7	X	92.90048	59.41772	245.91952	13.92246	0.1419689	0.20358245	2.8618211	20	12 21.2	20.2
405726 2005 XJ	16.6	X	62.02788	292.06153	46.65500	2.63163	0.0649711	0.19955867	2.9001624	20	12 20.1	20.6
405727 2005 XS_{23}	16.5	X	48.42562	343.49837	56.59660	9.35680	0.2283240	0.20937490	2.8087924	20	—	—
405728 2005 XQ_{25}	18.6	X	203.04266	347.94508	79.86468	4.21085	0.0900943	0.31042565	2.1602184	20	6 25.2	21.3
405729 2005 XN_{40}	18.4	X	294.67013	297.77109	58.36883	2.56590	0.1813947	0.31326774	2.1471329	20	7 4.4	20.1
405730 2005 XM_{64}	15.8	X	232.17982	146.96320	336.37240	12.25214	0.3066399	0.17900410	3.1181289	20	9 6.6	21.1
405731 2005 YS_{7}	18.5	X	203.96428	315.91883	102.82641	4.38916	0.1730189	0.30561115	2.1828468	20	6 8.9	21.8
405732 2005 YQ_{12}	16.3	X	107.00287	229.46467	76.53326	3.12437	0.0144372	0.19753550	2.9199311	20	12 26.9	20.5
405733 2005 YR_{13}	16.1	X	227.02276	195.76700	292.90185	8.59524	0.0443128	0.18263828	3.0766270	20	10 3.2	20.7
405734 2005 YA_{15}	17.6	X	289.76439	82.53650	297.63823	2.99844	0.1445684	0.31375841	2.1448938	20	8 10.7	19.2
405735 2005 YR_{22}	16.0	X	294.49942	154.70295	292.66350	8.06490	0.1602120	0.19030073	2.9934758	20	10 28.0	19.6
405736 2005 YV_{25}	16.5	X	272.66808	321.68408	122.88010	3.51003	0.1309345	0.18489624	3.0515278	20	9 29.5	20.5
405737 2005 YD_{26}	15.6	X	16.04122	17.95834	292.47032	15.60804	0.0981816	0.17991885	3.1075510	20	9 7.1	19.9
405738 2005 YT_{30}	16.3	X	326.18291	130.73584	297.45848	5.53411	0.1017010	0.19201559	2.9756263	20	12 1.8	19.9
405739 2005 YT_{33}	16.0	X	17.95120	276.36456	108.63791	15.10547	0.1063348	0.19532939	2.9418757	20	12 27.0	19.8
405740 2005 YT_{39}	16.0	X	197.54784	90.98279	103.99038	9.76904	0.0551153	0.18865666	3.0108420	20	11 25.3	20.5
405741 2005 YV_{40}	15.9	X	281.52595	298.27557	119.29847	11.93995	0.0572140	0.18069161	3.0986847	20	9 19.9	20.3
405742 2005 YD_{58}	16.4	X	2.30692	45.57981	292.87741	8.48224	0.0843242	0.18121564	3.0927081	20	9 25.5	20.6
405743 2005 YV_{67}	15.9	X	195.63695	235.41329	299.58042	8.59108	0.0442278	0.18614681	3.0378453	20	10 24.7	20.5
405744 2005 YA_{70}	16.0	X	336.21483	263.28087	103.83688	11.89379	0.1062159	0.18266887	3.0762835	20	10 4.2	19.9
405745 2005 YW_{77}	18.1	X	190.04331	163.54796	298.58926	4.47738	0.0544134	0.30933358	2.1652996	20	7 30.9	20.5
405746 2005 YF_{81}	16.4	X	323.43509	279.64003	109.23760	9.83484	0.0900819	0.18519611	3.0482329	20	10 11.9	20.3
405747 2005 YT_{105}	17.8	X	251.58721	91.27437	275.86122	6.14002	0.0842183	0.30448385	2.1882312	20	5 30.8	20.6
405748 2005 YE_{106}	15.8	X	165.95741	81.97992	107.06240	10.44722	0.0281528	0.18406831	3.0606714	20	10 17.5	20.4
405749 2005 YX_{107}	16.2	X	294.21965	158.69213	278.43038	8.46647	0.0467293	0.18783235	3.0196443	20	10 26.6	20.5
405750 2005 YJ_{109}	16.8	X	49.52124	147.55167	209.28402	1.35514	0.0718025	0.19455889	2.9496377	20	12 26.9	21.0
405751 2005 YX_{117}	16.8	X	234.12276	40.36372	90.17300	2.69199	0.0880848	0.18432706	3.0578064	20	10 14.3	21.2
405752 2005 YT_{122}	16.5	X	58.87292	111.01275	283.25878	25.00299	0.3581395	0.21093131	2.7949584	20	—	—
405753 2005 YF_{127}	16.2	X	301.90144	28.60875	77.74373	11.16090	0.0820241	0.19549408	2.9402233	20	12 15.2	19.9
405754 2005 YK_{129}	15.9	X	291.06032	281.73481	75.92498	6.99094	0.1052297	0.17394215	3.1783337	20	7 5.6	20.2
405755 2005 YC_{133}	16.0	X	171.59307	256.07713	302.22748	11.02648	0.1468278	0.18481600	3.0524110	20	10 20.8	21.1
405756 2005 YK_{133}	17.8	X	37.23002	178.18715	49.47277	3.40159	0.0791754	0.30347637	2.1930715	20	7 4.6	19.9
405757 2005 YK_{138}	18.2	X	257.85276	76.90126	315.12156	3.07497	0.0921500	0.30955249	2.1642787	20	7 16.2	20.6
405758 2005 YO_{148}	16.5	X	288.93861	69.06550	24.73738	3.68004	0.0766444	0.18916879	3.0054053	20	11 9.0	20.3
405759 2005 YJ_{149}	17.5	X	322.41725	201.19835	78.45646	5.51492	0.1345372	0.29744113	2.2226378	20	5 2.6	19.5
405760 2005 YN_{151}	17.2	X	175.94437	142.40173	312.88456	6.56962	0.0816707	0.30370968	2.1919483	20	7 2.4	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405761 2005 YD_{152}	17.6	X	128.71199	162.78708	319.85404	6.64827	0.1370732	0.29905562	2.2146311	20	6 17.8	20.8
405762 2005 YO_{180}	20.3	X	26.43655	87.70995	7.75554	5.77165	0.4482641	0.54711256	1.4805336	20	—	—
405763 2005 YS_{183}	17.6	X	316.51104	10.10083	262.50670	8.50250	0.1008226	0.29608141	2.2294374	20	4 10.8	20.3
405764 2005 YF_{184}	16.2	X	186.10377	75.32410	127.91092	10.72058	0.0499080	0.18857489	3.0117123	20	11 23.8	20.8
405765 2005 YW_{185}	18.6	X	149.89047	54.17033	69.88782	2.08889	0.0975392	0.30398095	2.1906440	20	7 12.1	21.4
405766 2005 YW_{189}	17.5	X	305.57565	202.25370	87.49932	4.44061	0.1727652	0.29710048	2.2243365	20	4 12.8	19.8
405767 2005 YA_{203}	19.1	X	196.10516	196.86704	225.18384	1.73171	0.0907798	0.30368394	2.1920721	20	6 8.4	22.1
405768 2005 YP_{218}	16.1	X	121.35184	246.11931	314.84246	10.41620	0.1419360	0.17389709	3.1788827	20	9 8.8	21.2
405769 2005 YY_{223}	17.2	X	298.81986	71.17633	354.45706	2.30076	0.1508563	0.18857827	3.0116762	20	10 10.2	20.6
405770 2005 YV_{224}	15.8	X	24.76543	225.17674	92.32857	9.94436	0.0339668	0.18430423	3.0580590	20	10 6.3	20.1
405771 2005 YW_{228}	16.2	X	11.29137	58.71047	303.17623	9.12481	0.0273057	0.18469196	3.0537775	20	11 3.6	20.6
405772 2005 YW_{239}	15.9	X	260.25281	11.78887	120.17294	10.96847	0.0550634	0.19078497	2.9884084	20	11 24.7	20.1
405773 2005 YX_{252}	15.8	X	114.13467	297.20717	314.68069	8.62137	0.0530948	0.18362230	3.0656256	20	10 27.1	20.5
405774 2005 YF_{275}	15.4	X	180.75312	222.85027	307.63319	15.73689	0.1233673	0.17771562	3.1331822	20	9 23.1	20.7
405775 2005 YC_{281}	16.0	X	30.09043	37.91628	315.31008	9.70618	0.1008734	0.18928717	3.0041522	20	11 29.8	20.2
405776 2006 AP	16.7	X	132.52603	16.41608	114.27153	23.68997	0.2660815	0.29873112	2.2162346	20	7 11.5	20.3
405777 2006 AZ	16.9	X	194.01500	291.87049	270.84924	25.36150	0.0480407	0.39585556	1.8370101	20	—	—
405778 2006 AM_{13}	15.9	X	150.15686	284.97811	271.18362	14.14641	0.0999067	0.18401697	3.0612407	20	9 26.6	21.0
405779 2006 AB_{22}	16.3	X	272.60991	69.27570	9.98178	11.72401	0.2339888	0.18369460	3.0648211	20	9 8.6	20.4
405780 2006 AZ_{34}	16.6	X	14.85363	63.35487	299.00753	11.26660	0.1507978	0.18954076	3.0014720	20	11 26.9	20.6
405781 2006 AN_{35}	16.3	X	92.49355	99.31089	124.73513	10.23028	0.1441729	0.17221825	3.1995085	20	9 14.5	21.2
405782 2006 AX_{35}	16.2	X	265.32051	188.02082	293.47455	7.83711	0.0356710	0.18840642	3.0135073	20	11 15.6	20.5
405783 2006 AE_{43}	16.1	X	22.30820	238.31126	136.60835	10.65562	0.0887328	0.19075499	2.9887215	20	12 17.3	20.2
405784 2006 AD_{44}	16.5	X	277.45049	335.66478	145.54634	10.64595	0.2690366	0.19003064	2.9963115	20	11 4.6	20.3
405785 2006 AP_{48}	18.1	X	135.92040	176.74960	286.47582	4.24553	0.1078821	0.29471078	2.2363445	20	5 26.5	21.1
405786 2006 AN_{53}	16.7	X	337.70547	223.89718	186.78057	1.55428	0.0502864	0.18929652	3.0040533	20	11 25.8	20.7
405787 2006 AN_{58}	16.1	X	86.32386	153.89376	114.25011	13.19324	0.0522320	0.18322292	3.0700787	20	10 25.0	20.7
405788 2006 AV_{64}	17.2	X	28.81816	271.45726	309.80955	7.57277	0.0759569	0.29822191	2.2187567	20	6 7.4	19.5
405789 2006 AP_{66}	17.8	X	239.70625	113.28007	275.54485	5.11980	0.0179694	0.30307223	2.1950207	20	6 25.9	20.2
405790 2006 AO_{68}	16.4	X	320.69634	269.06614	129.25393	11.64765	0.0338009	0.18250315	3.0781454	20	10 21.6	20.7
405791 2006 AF_{72}	16.2	X	338.01001	230.85544	127.85572	15.23479	0.0426700	0.17861568	3.1226478	20	9 24.3	20.6
405792 2006 AC_{73}	16.1	X	139.73491	238.66846	307.32962	7.92667	0.0404549	0.17464079	3.1698516	20	9 4.5	20.8
405793 2006 AU_{80}	18.6	X	244.70394	267.50873	112.33042	6.05633	0.2784905	0.30727521	2.1749588	20	5 19.9	22.1
405794 2006 AS_{84}	16.3	X	272.61114	56.10724	29.40581	9.52457	0.2253941	0.18481376	3.0524356	20	9 18.3	20.4
405795 2006 AT_{86}	16.9	X	45.10621	307.26371	154.50565	6.82800	0.2873151	0.21173609	2.7878718	20	2 10.4	19.2
405796 2006 AX_{100}	18.4	X	149.93829	313.05041	141.75023	7.39659	0.1061648	0.29840125	2.2178677	20	6 2.2	21.5
405797 2006 BG_{1}	17.5	X	151.20784	156.34713	309.97097	6.27008	0.0588200	0.29976591	2.2111314	20	6 15.8	20.4
405798 2006 BQ_{22}	16.1	X	202.33764	186.86866	324.07456	4.01648	0.0891098	0.17956179	3.1116692	20	9 30.4	20.8
405799 2006 BT_{30}	16.7	X	286.62956	319.82230	109.59852	6.72696	0.1829573	0.18352938	3.0666602	20	9 23.9	20.6
405800 2006 BQ_{37}	16.2	X	39.10377	236.73257	123.72979	11.73615	0.1590936	0.19202402	2.9755392	20	12 30.5	20.4
405801 2006 BZ_{38}	16.2	X	41.26736	277.98678	98.70841	6.65189	0.0736236	0.20344904	2.8630721	20	—	—
405802 2006 BY_{39}	15.8	X	306.48270	102.22988	319.05157	10.32049	0.0188017	0.18251287	3.0780362	20	10 22.3	20.2
405803 2006 BS_{46}	15.2	X	222.90546	307.38764	147.87629	33.27675	0.0502083	0.17082837	3.2168395	20	8 20.2	19.7
405804 2006 BR_{48}	16.2	X	296.59531	244.74401	110.37147	6.20068	0.1705637	0.17140847	3.2095775	20	6 30.1	20.2
405805 2006 BZ_{50}	16.5	X	219.48172	110.62793	46.33733	1.62121	0.1479220	0.18435609	3.0574853	20	10 22.2	21.1
405806 2006 BT_{53}	17.9	X	189.39888	93.71183	347.54902	1.98279	0.0738659	0.30017315	2.2091311	20	6 28.4	20.8
405807 2006 BQ_{54}	18.1	X	123.04559	137.40608	335.98769	4.54592	0.0833200	0.29263578	2.2469036	20	5 21.3	20.9
405808 2006 BS_{57}	15.9	X	38.19871	192.69506	76.45654	6.35765	0.0627505	0.16887646	3.2415792	20	8 22.5	20.3
405809 2006 BZ_{59}	16.1	X	166.29743	231.88952	332.90550	11.77388	0.0488637	0.17948506	3.1125560	20	10 25.2	21.0
405810 2006 BL_{71}	18.3	X	235.57347	29.00835	5.22748	6.48854	0.1390321	0.30349008	2.1930055	20	6 10.9	21.3
405811 2006 BQ_{72}	16.1	X	20.33799	256.27603	114.39486	9.49885	0.0637958	0.18693616	3.0292876	20	12 5.7	20.3
405812 2006 BH_{75}	16.5	X	149.23434	65.03898	114.87384	10.20284	0.0472267	0.17416643	3.1756045	20	9 14.6	21.3
405813 2006 BC_{77}	16.6	X	277.20996	316.73701	140.70566	6.53124	0.0813577	0.18602051	3.0392201	20	10 30.3	20.7
405814 2006 BL_{83}	16.4	X	106.12535	183.73187	77.25894	2.86203	0.0599969	0.18265141	3.0764795	20	11 3.1	20.9
405815 2006 BN_{84}	15.6	X	321.19074	35.17950	315.28609	16.31853	0.0262133	0.17266630	3.1939712	20	8 14.9	20.0
405816 2006 BV_{94}	15.9	X	191.64627	342.21962	153.34906	14.33410	0.0469712	0.17175182	3.2052986	20	9 4.3	20.6
405817 2006 BQ_{100}	15.7	X	249.30621	294.02086	163.35788	26.55045	0.2365939	0.18090258	3.0962752	20	8 30.4	20.3
405818 2006 BK_{101}	16.2	X	303.51674	260.66196	126.39045	12.44855	0.0666305	0.17738402	3.1370857	20	9 8.2	20.4
405819 2006 BJ_{102}	16.4	X	141.91591	47.48599	152.05152	10.23417	0.0580479	0.17482805	3.1675877	20	9 29.4	21.1
405820 2006 BV_{113}	18.1	X	335.75647	239.50006	321.98441	4.62549	0.1215319	0.28085432	2.3093086	20	1 31.7	20.7
405821 2006 BA_{114}	16.3	X	258.95187	317.58012	131.66090	11.84806	0.0694311	0.17960895	3.1111245	20	9 28.2	20.8
405822 2006 BV_{123}	17.3	X	331.21149	258.48321	328.65993	7.48747	0.0923533	0.28268566	2.2993241	20	3 3.7	19.7
405823 2006 BE_{126}	18.2	X	298.98457	263.00500	314.46974	1.58713	0.1591517	0.27338113	2.3512042	20	—	—
405824 2006 BM_{136}	17.1	X	268.88649	41.65491	88.57822	2.89140	0.1679147	0.18889724	3.0082850	20	11 15.4	21.0
405825 2006 BC_{137}	16.6	X	198.78436	40.55422	98.54006	2.45283	0.1191402	0.17635052	3.1493304	20	9 12.5	21.4
405826 2006 BW_{137}	18.1	X	60.93549	259.86915	268.39974	1.18019	0.0488148	0.29102923	2.2551649	20	5 7.1	20.5
405827 2006 BM_{139}	15.8	X	248.43470	328.74349	160.81943	16.73806	0.1597153	0.18156011	3.0887950	20	10 22.5	20.4
405828 2006 BX_{141}	16.6	X	274.89552	145.72225	316.43285	9.41307	0.1261388	0.18398144	3.0616347	20	10 19.1	20.8
405829 2006 BJ_{143}	17.6	X	9.82739	213.15494	331.36941	9.04434	0.2005624	0.28205509	2.3027498	20	2 28.7	19.2
405830 2006 BB_{145}	15.9	X	248.71429	141.85434	291.22154	8.87346	0.0724596	0.17556323	3.1587385	20	8 18.1	20.6
405831 2006 BC_{152}	16.2	X	234.85650	151.50772	340.32841	8.85171	0.0519002	0.18118480	3.0930590	20	10 16.3	20.8
405832 2006 BW_{153}	17.5	X	338.24746	130.53188	149.91427	7.05417	0.1051733	0.29709502	2.2243637	20	6 7.8	19.6
405833 2006 BQ_{158}	17.7	X	357.72492	305.73383	258.39897	2.29719	0.1200514	0.28478724	2.2879983	20	3 11.6	19.9
405834 2006 BM_{159}	18.0	X	351.97489	51.09096	156.84855	5.47012	0.1928949	0.28235006	2.3011457	20	2 27.7	19.9
405835 2006 BB_{179}	15.4	X	313.45306	45.70586	320.34952	11.68140	0.0315885	0.17270353	3.1935122	20	8 24.1	19.8
405836 2006 BD_{179}	18.0	X	125.59546	5.52950	122.44932	2.40825	0.0639563	0.29748819	2.2224034	20	6 14.1	20.7
405837 2006 BV_{182}	16.1	X	243.36850	172.31199	332.23555	8.58412	0.0408021	0.18376012	3.0640925	20	11 13.7	20.6
405838 2006 BZ_{185}	16.1	X	313.85486	85.83563	312.42260	8.58127	0.0548246	0.17837573	3.1254475	20	9 30.8	20.4
405839 2006 BO_{199}	18.0	X	206.53271	109.57320	313.37467	3.25896	0.0871064	0.29950203	2.2124300	20	6 22.5	20.8
405840 2006 BP_{203}	16.5	X	199.72104	126.39953	43.26887	1.69857	0.1172821	0.18014345	3.1049676	20	10 19.7	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405841 2006 BF_{212}	16.0	X	222.29334	308.94873	150.61854	17.12816	0.1879186	0.17298576	3.1900377	20	8 10.9	21.1
405842 2006 BQ_{223}	18.0	X	10.75399	40.05722	149.60772	3.31238	0.1602207	0.28404706	2.2919714	20	3 15.2	19.5
405843 2006 BT_{227}	17.8	X	147.54497	310.44366	146.85604	2.05884	0.1035480	0.29436156	2.2381129	20	6 1.6	20.7
405844 2006 BM_{229}	16.9	X	297.42603	326.47893	100.90208	5.81147	0.2024722	0.18640765	3.0350107	20	10 6.6	20.5
405845 2006 BJ_{230}	15.9	X	346.79252	260.98653	113.45845	10.31235	0.1073030	0.18338932	3.0682214	20	10 29.6	19.8
405846 2006 BS_{248}	16.0	X	319.55249	26.27079	339.08511	10.47905	0.1096933	0.17266574	3.1939781	20	8 27.7	20.0
405847 2006 BR_{255}	15.6	X	221.67187	226.08643	262.10329	5.11082	0.0920020	0.17800535	3.1297815	20	9 22.0	20.3
405848 2006 BQ_{278}	18.0	X	22.78714	332.40392	230.35182	0.95978	0.0452577	0.28989101	2.2610641	20	4 26.9	20.3
405849 2006 BA_{280}	15.6	X	323.37902	232.75822	133.75380	12.75755	0.1867789	0.17509752	3.1643369	20	8 31.2	19.1
405850 2006 BN_{283}	17.1	X	329.52262	145.30035	297.46283	2.51874	0.1129483	0.19262127	2.9693853	20	12 26.9	20.7
405851 2006 CZ_{10}	15.9	X	5.77321	39.04888	303.77126	8.06752	0.1382121	0.18480960	3.0524815	20	10 12.7	19.7
405852 2006 CS_{12}	16.7	X	213.63113	150.14118	316.30706	6.68925	0.1111489	0.17424556	3.1746431	20	8 17.6	21.6
405853 2006 CA_{15}	16.0	X	14.82632	250.30726	140.97297	13.38447	0.1188769	0.19186167	2.9772175	20	12 31.0	20.0
405854 2006 CE_{58}	16.1	X	103.33673	99.05624	136.18105	16.63895	0.0518751	0.17541870	3.1604733	20	10 2.3	20.9
405855 2006 CW_{66}	16.1	X	357.10415	195.15828	150.93215	5.79855	0.0671521	0.17783157	3.1318201	20	10 2.5	20.1
405856 2006 DB_{10}	17.9	X	341.06906	104.38351	103.42720	5.05999	0.1828011	0.27903829	2.3193174	20	2 9.9	20.2
405857 2006 DA_{53}	16.3	X	194.58392	163.60156	339.71273	11.92288	0.0665636	0.17195149	3.2028167	20	9 13.5	21.1
405858 2006 DU_{55}	16.3	X	183.13082	30.41861	106.72930	5.81632	0.1136137	0.16996137	3.2277699	20	8 26.0	21.4
405859 2006 DP_{61}	15.3	X	235.79583	315.74953	153.27311	28.18265	0.1958852	0.17234252	3.1979703	20	9 5.1	20.3
405860 2006 DJ_{65}	17.4	X	52.74388	154.90319	48.04415	7.02622	0.1241248	0.29365053	2.2417242	20	6 29.3	19.8
405861 2006 DN_{80}	17.8	X	311.98090	283.05401	311.10103	1.32826	0.1779558	0.27713704	2.3299128	20	2 2.5	20.4
405862 2006 DJ_{81}	18.6	X	345.12800	223.36214	346.34181	1.20050	0.1450406	0.28005527	2.3136991	20	2 24.7	20.7
405863 2006 DJ_{84}	16.6	X	279.22182	145.80149	325.93875	5.49040	0.1418929	0.18395930	3.0618804	20	11 6.7	20.7
405864 2006 DP_{90}	16.0	X	125.75160	56.61708	170.70690	12.26193	0.0618974	0.17102156	3.2144165	20	10 14.9	20.8
405865 2006 DZ_{96}	15.6	X	330.24941	51.43782	4.90177	23.68274	0.1933363	0.18113841	3.0935871	20	11 10.4	19.3
405866 2006 DQ_{98}	16.6	X	195.93408	181.49597	332.74583	3.85579	0.1109533	0.17610835	3.1522168	20	9 26.1	21.6
405867 2006 DJ_{111}	15.8	X	31.73104	353.33780	349.08178	17.74635	0.2281197	0.17656823	3.1467410	20	12 1.6	20.3
405868 2006 DO_{111}	16.1	X	336.39335	33.78694	342.27352	9.32395	0.1069098	0.17879929	3.1205096	20	10 5.7	20.0
405869 2006 DS_{127}	18.0	X	40.57974	29.57431	140.47845	7.46226	0.0616808	0.28825836	2.2695937	20	4 11.9	20.4
405870 2006 DL_{149}	17.4	X	86.31939	312.31905	180.81134	6.55256	0.1295276	0.28732966	2.2744815	20	5 9.9	20.1
405871 2006 DW_{149}	18.0	X	99.63229	294.67216	185.26215	6.46870	0.0315209	0.28636063	2.2796098	20	4 23.3	20.6
405872 2006 DS_{176}	16.3	X	205.27784	34.56426	147.48373	6.09958	0.0984329	0.18016008	3.1047765	20	11 12.4	21.0
405873 2006 DW_{179}	16.4	X	7.56826	10.79390	0.12588	9.36867	0.0774096	0.17897304	3.1184896	20	11 14.0	20.6
405874 2006 DK_{200}	17.6	X	341.81571	242.53978	321.76602	22.63154	0.1909969	0.27819535	2.3240001	20	2 5.6	19.8
405875 2006 DN_{210}	18.2	X	308.22573	224.11318	359.36277	2.10783	0.1784019	0.27337194	2.3512570	20	1 15.7	21.2
405876 2006 DN_{216}	16.7	X	238.02387	322.88170	177.64981	10.30404	0.0892704	0.17809010	3.1287885	20	10 30.7	21.2
405877 2006 EU_{3}	17.7	X	274.37006	326.80232	359.90424	6.56679	0.1296529	0.29124937	2.2540284	20	4 24.5	20.5
405878 2006 EL_{5}	17.6	X	258.78075	200.49237	48.11811	3.03697	0.1879474	0.26961129	2.3730706	20	—	—
405879 2006 EF_{7}	17.3	X	114.37058	137.94405	354.79314	8.50080	0.0681486	0.29252025	2.2474951	20	6 4.6	20.3
405880 2006 EA_{14}	18.1	X	244.64052	83.67122	167.64505	2.75584	0.1918591	0.26609469	2.3939325	20	—	—
405881 2006 EO_{17}	17.9	X	338.93779	206.48688	356.19319	3.20860	0.1646198	0.27661669	2.3328338	20	2 2.0	20.1
405882 2006 EL_{21}	16.4	X	325.74286	64.19376	344.08729	8.50187	0.0373216	0.18061085	3.0996084	20	10 31.8	20.7
405883 2006 EX_{21}	16.5	X	134.51707	80.58509	136.67007	3.88304	0.0609786	0.17428989	3.1741048	20	10 12.1	21.2
405884 2006 EN_{37}	17.6	X	303.86704	227.04548	6.99644	22.66506	0.1989153	0.27337801	2.3512221	20	1 31.1	21.3
405885 2006 EC_{67}	18.1	X	310.73054	106.38646	144.67443	5.95109	0.1180142	0.28079591	2.3096288	20	3 5.1	20.6
405886 2006 EU_{67}	16.5	X	206.64024	7.97944	137.37604	5.25861	0.0630286	0.17877193	3.1208280	20	10 4.0	21.1
405887 2006 FO_{6}	16.1	X	205.43254	125.48382	353.87203	13.56216	0.0815632	0.17003229	3.2268723	20	8 30.1	20.9
405888 2006 FB_{31}	16.1	X	271.42091	74.17384	32.95255	24.00708	0.1751974	0.17741147	3.1367622	20	10 19.5	20.2
405889 2006 FH_{32}	15.5	X	158.93794	238.03701	17.43650	10.91877	0.1226150	0.17793878	3.1305621	20	12 18.3	20.6
405890 2006 FQ_{32}	17.8	X	253.86324	190.43617	77.13071	2.23617	0.1630226	0.26682555	2.3895591	20	1 16.7	21.4
405891 2006 FS_{37}	17.3	X	341.01178	229.67679	337.91192	22.28868	0.2477537	0.27562972	2.3383994	20	2 4.8	19.8
405892 2006 FJ_{39}	15.9	X	212.37108	294.09220	201.29149	3.89997	0.1518215	0.17590081	3.1546958	20	9 16.8	20.9
405893 2006 GH_{28}	17.8	X	287.85026	227.24427	36.40466	7.62387	0.1114448	0.27331752	2.3515691	20	2 25.4	20.9
405894 2006 GQ_{28}	17.3	X	210.80884	135.94665	202.08900	6.54498	0.1333511	0.27174081	2.3606565	20	3 1.8	21.1
405895 2006 GJ_{40}	17.0	X	242.41279	84.44749	30.07946	22.94943	0.2777467	0.31470567	2.1405876	20	10 3.6	19.7
405896 2006 HS_{8}	16.3	X	277.65109	96.14915	358.62885	11.40368	0.1323079	0.17833591	3.1259128	20	10 13.5	20.5
405897 2006 HO_{16}	17.2	X	210.77291	207.53972	111.11105	5.23274	0.2076358	0.26549785	2.3975189	20	2 9.8	21.3
405898 2006 HO_{18}	17.9	X	291.09106	231.27709	30.21719	1.73352	0.1711738	0.27319558	2.3522687	20	2 15.2	21.0
405899 2006 HV_{18}	18.0	X	307.81972	226.57277	37.30581	7.41338	0.0850483	0.27965219	2.3159218	20	3 26.3	20.6
405900 2006 HK_{22}	17.7	X	253.53105	191.58562	98.53653	3.49239	0.1894864	0.26968806	2.3726203	20	2 11.7	21.3
405901 2006 HM_{36}	18.0	X	259.80875	111.59040	130.66785	3.30080	0.1357834	0.26249458	2.4157714	20	—	—
405902 2006 HM_{56}	17.3	X	329.96180	29.41321	172.74261	5.89848	0.1222527	0.27254294	2.3560225	20	1 23.6	20.0
405903 2006 HO_{64}	18.2	X	245.67648	108.79257	182.29659	3.58766	0.1578324	0.26767280	2.3845141	20	2 6.0	21.9
405904 2006 HW_{71}	17.9	X	313.31605	154.55123	84.99648	7.91498	0.0727118	0.27325371	2.3519351	20	3 4.3	20.8
405905 2006 HG_{72}	17.6	X	286.15088	128.25090	83.78369	8.07484	0.1330516	0.26337868	2.4103622	20	—	—
405906 2006 HT_{82}	18.1	X	268.17736	42.29701	230.28920	0.69620	0.1940074	0.26814559	2.3817103	20	2 2.3	21.5
405907 2006 HW_{98}	17.7	X	25.64550	315.26351	215.44152	4.18663	0.1032501	0.27589639	2.3368924	20	3 15.7	19.9
405908 2006 HH_{99}	17.5	X	354.95858	103.93979	56.70849	6.93043	0.0891917	0.26760713	2.3849042	20	1 12.5	20.1
405909 2006 HW_{103}	15.5	X	290.14294	344.91776	115.26415	17.43339	0.1552027	0.17294667	3.1905184	20	11 13.2	19.8
405910 2006 HC_{117}	15.4	X	158.87886	182.43619	63.60159	18.34576	0.0568585	0.17215226	3.2003261	20	12 7.3	20.2
405911 2006 HU_{120}	17.9	X	242.53021	178.23507	123.45201	3.41221	0.1988253	0.26701083	2.3884536	20	2 15.4	21.7
405912 2006 HR_{132}	17.0	X	321.35659	38.98733	19.66659	5.37449	0.1293535	0.18123938	3.0924380	20	11 7.6	20.5
405913 2006 JJ_{11}	17.7	X	262.04466	256.41247	341.02793	1.95550	0.1511792	0.26243195	2.4161557	20	—	—
405914 2006 JX_{62}	18.0	X	261.44409	271.57551	356.48721	5.98578	0.1629344	0.27462064	2.3441241	20	1 24.9	21.5
405915 2006 JP_{70}	18.1	X	233.90030	289.97312	37.03152	2.59219	0.0738920	0.27548842	2.3391989	20	3 17.2	21.2
405916 2006 JG_{81}	18.0	X	336.49386	84.01224	151.96760	4.88674	0.1101867	0.27566625	2.3381928	20	3 26.7	20.3
405917 2006 KO_{5}	17.6	X	285.19389	7.10611	231.46896	5.42155	0.1414995	0.26666798	2.3905003	20	1 12.8	20.9
405918 2006 KN_{28}	15.5	X	337.99127	10.04894	60.43637	10.24545	0.0686660	0.17510754	3.1642162	20	12 16.6	19.7
405919 2006 KC_{37}	17.4	X	129.89528	321.75023	76.03699	7.50114	0.1443142	0.26566021	2.3965420	20	3 2.2	20.8
405920 2006 KG_{48}	17.6	X	81.14160	13.31783	93.56622	5.40993	0.1103578	0.27359930	2.3499542	20	3 24.2	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
405921 2006 KW_{50}	17.9	X	222.24498	167.58498	151.03496	1.60147	0.2004448	0.26594794	2.3948131	20	2 18.3	21.9
405922 2006 KZ_{53}	17.6	X	197.01827	142.42038	159.45487	2.71816	0.2057393	0.25726184	2.4484194	20	1 9.4	21.7
405923 2006 KQ_{58}	17.8	X	244.72464	102.20843	146.95711	3.80834	0.1938433	0.25997205	2.4313731	20	—	—
405924 2006 KD_{68}	17.8	X	248.49992	158.44655	106.87107	10.58048	0.2462393	0.26405842	2.4062239	20	1 5.3	21.8
405925 2006 KC_{71}	18.0	X	277.36038	129.91058	134.31806	5.85813	0.0764392	0.26910881	2.3760237	20	2 15.1	21.0
405926 2006 KQ_{109}	17.9	X	223.00224	1.00338	281.56973	1.35264	0.1748343	0.26194786	2.4191315	20	1 7.3	21.8
405927 2006 OR_{21}	18.2	X	145.34052	212.77213	145.94604	2.33772	0.2569489	0.24560541	2.5252871	20	2 7.9	22.3
405928 2006 PO_{32}	14.5	X	252.05910	275.25547	92.48923	10.23726	0.2664920	0.12443121	3.9735911	20	5 15.6	20.8
405929 2006 QG_{3}	17.3	X	125.71747	3.32911	347.29450	13.01724	0.2622002	0.23995282	2.5647920	20	1 15.5	21.2
405930 2006 QL_{69}	15.4	X	258.69325	206.94603	146.92839	3.49350	0.2336590	0.12485048	3.9646901	20	5 7.5	21.5
405931 2006 QK_{82}	15.2	X	251.65897	348.38138	10.46116	2.48365	0.2304360	0.12462449	3.9694816	20	5 5.5	21.3
405932 2006 QR_{94}	16.6	X	137.48515	11.15471	349.07545	13.36981	0.0423446	0.24641424	2.5197581	20	1 11.2	20.2
405933 2006 QT_{185}	17.5	X	175.44009	124.25400	174.03570	10.73713	0.1434168	0.24148146	2.5539566	20	—	—
405934 2006 RM_{3}	17.8	X	343.37275	66.60952	353.72093	20.26657	0.0973149	0.36760504	1.9299605	20	—	—
405935 2006 RO_{5}	16.9	X	90.67152	347.48641	73.25126	5.90432	0.1821205	0.24396118	2.5366209	20	2 18.4	20.0
405936 2006 RC_{28}	17.7	X	163.31042	147.02166	177.56498	6.41329	0.2057350	0.24201150	2.5502262	20	1 9.4	21.9
405937 2006 RN_{33}	17.3	X	115.49747	5.57388	347.31251	13.52124	0.2244172	0.23741320	2.5830500	20	1 1.0	21.0
405938 2006 RC_{43}	17.6	X	164.79111	133.01791	187.05973	8.95921	0.1469772	0.24127893	2.5553857	20	—	—
405939 2006 RP_{48}	17.8	X	84.59314	229.12651	193.21119	5.24308	0.2221871	0.23961691	2.5671884	20	2 14.3	20.8
405940 2006 RV_{50}	17.2	X	356.63011	276.56747	194.94632	9.78199	0.0932508	0.23225298	2.6211700	20	—	—
405941 2006 RM_{53}	17.9	X	71.28201	233.79848	181.83183	7.38564	0.1881335	0.23600368	2.5933245	20	1 9.5	20.7
405942 2006 RA_{54}	17.7	X	113.55189	352.29551	20.58110	10.33544	0.2137880	0.23868374	2.5738753	20	1 23.6	21.4
405943 2006 RU_{57}	15.8	X	267.69869	318.27385	33.41120	3.22384	0.2319847	0.12433431	3.9756552	20	5 12.2	21.6
405944 2006 RH_{58}	18.1	X	151.04216	173.64362	184.54577	17.27372	0.2692464	0.24534482	2.5270749	20	2 10.2	22.6
405945 2006 RF_{75}	17.2	X	150.10468	284.86508	12.73676	7.23914	0.1100548	0.23467880	2.6030758	20	—	—
405946 2006 RL_{76}	18.4	X	176.14194	310.39678	16.50097	3.69605	0.1568421	0.24556155	2.5255878	20	1 21.8	22.4
405947 2006 RO_{86}	17.8	X	95.25332	43.02207	3.89075	5.07716	0.2514458	0.24012115	2.5635932	20	2 16.9	21.0
405948 2006 RD_{94}	17.2	X	160.95405	317.87497	344.89133	4.06006	0.1417789	0.23648126	2.5898318	20	—	—
405949 2006 RM_{105}	17.8	X	328.37017	316.98609	193.03114	1.39073	0.1037845	0.23547108	2.5972335	20	—	—
405950 2006 RM_{120}	17.6	X	93.94567	55.22580	12.10120	11.20929	0.1639459	0.24355897	2.5394127	20	3 1.4	20.9
405951 2006 SD_{1}	17.0	X	154.82728	0.24387	354.15432	15.04050	0.0673308	0.24591875	2.5231416	20	1 30.2	20.7
405952 2006 SK_{3}	17.5	X	147.15935	110.83403	239.88881	6.09984	0.1784251	0.24396762	2.5365763	20	1 22.3	21.3
405953 2006 SX_{4}	17.8	X	151.48198	85.01150	276.40919	3.15834	0.2688006	0.24610223	2.5218874	20	2 16.1	22.0
405954 2006 SA_{5}	18.3	X	84.67001	161.00370	188.42746	22.40376	0.0765037	0.37454102	1.9060595	20	—	—
405955 2006 SR_{6}	16.6	X	125.19935	304.46053	67.27409	15.81550	0.1360302	0.24401932	2.5362180	20	1 23.6	20.3
405956 2006 SW_{11}	17.4	X	112.95171	130.15520	262.10182	3.26823	0.2657145	0.24180164	2.5517016	20	2 18.1	21.1
405957 2006 SP_{13}	16.3	X	96.99234	343.28586	11.94792	13.24294	0.0511200	0.23321673	2.6139438	20	—	—
405958 2006 SW_{13}	16.9	X	96.58092	205.73253	184.29588	16.92088	0.1276292	0.23931212	2.5693676	20	1 5.1	20.4
405959 2006 SR_{34}	17.6	X	114.14016	24.51982	345.25286	6.27354	0.2151219	0.23923641	2.5699097	20	1 18.6	21.1
405960 2006 SE_{44}	18.1	X	96.49191	167.41902	223.31955	4.85334	0.2603105	0.23927074	2.5696639	20	1 26.8	21.3
405961 2006 SR_{45}	17.4	X	160.89635	339.05687	18.42703	8.86929	0.1276416	0.24726145	2.5139990	20	2 13.7	21.2
405962 2006 SN_{56}	16.5	X	19.43405	296.25951	80.62300	10.08962	0.2189583	0.22016755	2.7162340	20	—	—
405963 2006 SZ_{61}	17.4	X	123.99489	222.87870	132.92439	5.18957	0.2215743	0.23964330	2.5669999	20	1 11.6	21.1
405964 2006 SP_{65}	17.5	X	84.89774	193.12886	194.41370	13.39274	0.1051516	0.23422262	2.6064546	20	—	—
405965 2006 SW_{71}	17.5	X	77.16842	184.61009	184.46535	5.73645	0.0562334	0.22939667	2.6428833	20	—	—
405966 2006 SN_{76}	17.5	X	152.45581	143.13078	187.05542	12.78588	0.2686337	0.24107728	2.5568104	20	1 10.9	22.0
405967 2006 SL_{83}	16.5	X	258.67955	198.69173	20.11626	14.04529	0.1523075	0.23884256	2.5727341	20	—	—
405968 2006 SG_{85}	17.7	X	50.42637	51.36450	21.81447	3.95013	0.0826376	0.23722817	2.5843929	20	—	—
405969 2006 SG_{103}	17.8	X	16.77976	248.89227	189.88359	4.58355	0.1534079	0.23056983	2.6339108	20	—	—
405970 2006 SJ_{105}	17.1	X	301.99407	180.15861	332.40832	1.75085	0.1400540	0.22971345	2.6404529	20	—	—
405971 2006 SZ_{113}	16.9	X	112.34508	104.18541	183.71085	10.97502	0.1838096	0.22696645	2.6617153	20	12 24.8	21.5
405972 2006 SV_{116}	17.3	X	131.18010	353.18008	21.85435	4.78785	0.1962839	0.24198067	2.5504428	20	2 10.7	21.1
405973 2006 SJ_{123}	16.9	X	107.09308	352.37397	34.70671	13.82291	0.2335522	0.24092148	2.5579126	20	2 8.1	20.6
405974 2006 SC_{129}	17.9	X	355.85636	41.24771	342.12896	18.96505	0.1068005	0.36113500	1.9529434	20	—	—
405975 2006 SB_{132}	17.1	X	129.58249	24.33648	340.01690	18.50140	0.2424769	0.24158061	2.5532578	20	2 4.3	21.1
405976 2006 SR_{147}	17.8	X	132.73719	359.24233	353.98651	3.57717	0.1606904	0.24028644	2.5624174	20	1 11.1	21.5
405977 2006 SY_{152}	17.5	X	39.03986	146.23905	290.46213	3.25287	0.1930136	0.23596962	2.5935741	20	—	—
405978 2006 SV_{153}	17.6	X	234.26047	135.81142	15.99635	22.29331	0.0424684	0.36561925	1.9369423	20	—	—
405979 2006 SU_{154}	17.6	X	123.10731	249.45102	94.34115	5.41834	0.2231128	0.23750135	2.5824108	20	—	—
405980 2006 SA_{156}	16.8	X	86.03699	266.97142	184.43998	12.65758	0.1584003	0.25245260	2.4794165	20	3 15.8	19.7
405981 2006 SO_{182}	18.0	X	140.04211	10.97267	354.59321	0.81175	0.2145962	0.24373115	2.5382167	20	2 8.0	21.9
405982 2006 SV_{183}	16.7	X	285.46601	116.46281	17.05689	13.11577	0.1615281	0.22082024	2.7108790	20	12 26.4	20.0
405983 2006 SE_{208}	17.9	X	357.26149	265.20949	172.75231	21.81631	0.1064388	0.37623467	1.9003350	20	—	—
405984 2006 SH_{208}	18.2	X	125.29273	82.89073	297.83415	3.15846	0.3307112	0.24308594	2.5427061	20	2 23.4	22.2
405985 2006 SM_{223}	16.7	X	305.21899	152.26699	21.32102	6.25247	0.0735156	0.23537997	2.5979037	20	—	—
405986 2006 SS_{242}	17.5	X	56.33650	301.09091	152.02424	3.67660	0.1838252	0.24049757	2.5609175	20	2 2.5	19.7
405987 2006 SZ_{257}	17.1	X	22.36196	100.74175	15.97100	14.99570	0.0998522	0.23787544	2.5797026	20	1 3.1	20.3
405988 2006 SE_{281}	16.7	X	43.02513	20.34004	55.95680	14.32066	0.1411202	0.23229520	2.6208524	20	—	—
405989 2006 SH_{287}	16.7	X	129.16268	12.37695	340.34679	15.22622	0.1540801	0.23920734	2.5701179	20	1 8.3	20.5
405990 2006 SG_{294}	18.1	X	104.86201	37.05015	346.02859	3.69571	0.2257852	0.23937560	2.5689134	20	1 25.1	21.3
405991 2006 SX_{309}	16.8	X	119.25374	44.05618	217.60502	5.46345	0.1289910	0.22039111	2.7143968	20	11 27.8	21.0
405992 2006 SN_{310}	17.6	X	88.24706	82.25568	348.69727	4.21865	0.2450806	0.24122405	2.5557732	20	3 7.4	20.7
405993 2006 SP_{318}	17.7	X	43.76525	63.64960	29.28365	13.37378	0.2365531	0.23539585	2.5977869	20	1 15.3	20.1
405994 2006 SH_{333}	16.8	X	196.03554	234.57721	17.78305	30.01464	0.1887541	0.23552058	2.5968696	20	—	—
405995 2006 SM_{335}	16.6	X	77.54121	140.08020	177.88466	13.61871	0.1186764	0.22258640	2.6965199	20	12 23.5	20.9
405996 2006 SP_{343}	16.6	X	59.07455	45.83766	15.09640	22.13723	0.0889372	0.23492012	2.6012928	20	—	—
405997 2006 SM_{345}	18.0	X	31.57033	166.08588	272.48604	2.68657	0.1346220	0.23188161	2.6239679	20	—	—
405998 2006 SW_{350}	15.1	X	270.68376	260.00635	94.11365	3.70282	0.2278973	0.12563682	3.9481299	20	5 19.5	21.0
405999 2006 SM_{353}	16.7	X	27.61017	38.53470	42.01208	13.18896	0.1658483	0.23101036	2.6305612	20	—	—
406000 2006 SG_{356}	16.5	X	67.85498	2.09045	34.02739	13.66510	0.1517156	0.23169968	2.6253412	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406001 2006 SN_{358}	17.6	X	11.59018	268.52189	177.19286	7.22191	0.2815532	0.22681532	2.6628976	20	—	—
406002 2006 SH_{359}	16.8	X	86.95299	13.57883	41.46089	15.06999	0.2544552	0.23713837	2.5850453	20	2 23.8	20.3
406003 2006 SM_{363}	17.7	X	136.31679	197.49427	179.82069	5.13507	0.3001048	0.24218700	2.5489941	20	2 25.9	21.9
406004 2006 SS_{365}	17.5	X	165.43571	299.43577	35.59066	10.96717	0.1300342	0.24064255	2.5598888	20	1 21.9	21.6
406005 2006 SP_{366}	17.1	X	245.67026	120.75007	143.90901	3.64034	0.0148319	0.24312540	2.5424309	20	1 17.4	20.5
406006 2006 SA_{368}	17.1	X	165.24860	325.43112	3.59675	15.28706	0.1521646	0.24204775	2.5499716	20	1 17.4	21.3
406007 2006 SJ_{368}	17.5	X	66.41741	181.30224	237.77487	3.21705	0.2149481	0.23455805	2.6039690	20	1 9.9	20.0
406008 2006 SP_{398}	17.2	X	120.88695	27.23446	355.66925	15.08355	0.1923065	0.24085686	2.5583701	20	2 12.3	21.0
406009 2006 SG_{401}	16.7	X	351.65207	221.87062	225.00371	7.74871	0.1213377	0.22167136	2.7039355	20	—	—
406010 2006 SX_{404}	17.2	X	98.58337	94.99534	192.19824	13.70750	0.0986918	0.22148676	2.7054377	20	12 7.0	21.5
406011 2006 TK_{5}	17.3	X	337.79071	239.15275	174.06649	23.00991	0.0838696	0.36180115	1.9505455	20	—	—
406012 2006 TP_{10}	17.3	X	115.47542	153.55260	182.46362	12.39601	0.2799351	0.23408411	2.6074827	20	—	—
406013 2006 TW_{20}	17.4	X	150.24834	121.17668	203.08405	3.82577	0.2136018	0.23727710	2.5840376	20	—	—
406014 2006 TX_{26}	17.7	X	86.38777	35.62461	35.44508	4.58773	0.2508237	0.23919033	2.5702398	20	3 8.2	20.8
406015 2006 TN_{35}	16.5	X	102.37975	53.19983	226.08954	8.67446	0.1814795	0.21769017	2.7368028	20	12 5.3	21.0
406016 2006 TQ_{36}	17.9	X	69.86962	50.39880	330.54459	1.21505	0.1499187	0.22861984	2.6488667	20	—	—
406017 2006 TQ_{43}	17.1	X	159.95111	284.47125	35.02677	3.15186	0.0917104	0.23455943	2.6039588	20	—	—
406018 2006 TZ_{44}	16.7	X	299.11084	102.10665	46.42767	24.29611	0.1741591	0.22204493	2.7009019	20	—	—
406019 2006 TU_{45}	16.3	X	85.81922	353.28735	44.97063	13.85721	0.0796075	0.23387601	2.6090292	20	—	—
406020 2006 TM_{47}	17.4	X	112.73275	33.05959	43.51848	5.48244	0.1219509	0.24560743	2.5252733	20	3 29.4	20.8
406021 2006 TZ_{52}	17.2	X	82.17277	206.23318	201.69212	5.38413	0.1906726	0.23430825	2.6058195	20	1 18.2	20.2
406022 2006 TP_{54}	16.3	X	113.49001	106.15377	232.09459	11.22818	0.2125598	0.23235010	2.6204396	20	—	—
406023 2006 TN_{62}	17.7	X	110.27208	145.89023	238.33392	4.75860	0.2493391	0.24112867	2.5564471	20	2 2.6	21.2
406024 2006 TR_{63}	17.3	X	166.08743	202.20724	149.45906	3.81271	0.2077559	0.24606745	2.5221250	20	2 13.5	21.3
406025 2006 TX_{68}	17.6	X	114.52310	214.49797	150.43574	5.28027	0.2119786	0.23802014	2.5786570	20	1 10.8	21.1
406026 2006 TL_{69}	17.7	X	135.56747	321.89585	39.26243	19.73750	0.2337777	0.24237546	2.5476726	20	2 8.7	22.0
406027 2006 TT_{75}	17.1	X	137.68501	280.99192	60.29857	12.25088	0.2949703	0.23919737	2.5701893	20	1 17.5	21.3
406028 2006 TM_{77}	17.5	X	92.26121	86.22260	347.87622	7.73498	0.2986289	0.24221745	2.5487805	20	3 23.5	20.8
406029 2006 TY_{85}	17.3	X	50.81452	79.51282	315.28239	3.08632	0.1002120	0.22667839	2.6639698	20	—	—
406030 2006 TP_{88}	16.8	X	14.24986	180.43909	242.07777	6.22399	0.0806645	0.22412603	2.6841566	20	—	—
406031 2006 TA_{89}	16.8	X	142.65102	322.84307	24.08553	14.27236	0.1947050	0.23890004	2.5723215	20	1 21.2	21.0
406032 2006 TB_{90}	16.9	X	337.82265	235.31623	238.96830	7.08126	0.1712187	0.22343939	2.6896528	20	—	—
406033 2006 TF_{90}	17.7	X	138.17877	84.95214	271.41508	2.08691	0.1971975	0.23866777	2.5739900	20	1 24.2	21.4
406034 2006 TC_{91}	16.9	X	202.64904	288.90038	39.37012	12.59364	0.1047813	0.24490204	2.5301199	20	2 21.4	21.0
406035 2006 TV_{91}	17.2	X	12.61238	226.25946	245.35914	2.98449	0.0990733	0.23164188	2.6257779	20	—	—
406036 2006 TM_{92}	17.4	X	107.39123	224.95268	173.93311	4.35362	0.2319695	0.23958858	2.5673908	20	2 16.5	20.9
406037 2006 TA_{93}	17.2	X	130.79580	347.48933	354.31291	4.67260	0.2337294	0.23699690	2.5860739	20	1 4.4	21.0
406038 2006 TG_{94}	17.6	X	128.12667	264.11565	97.29426	1.65582	0.1153171	0.23948319	2.5681440	20	1 9.5	21.1
406039 2006 TD_{97}	17.5	X	120.65430	48.05665	336.24963	4.20656	0.3031100	0.24041873	2.5614774	20	2 22.1	21.2
406040 2006 TA_{105}	16.3	X	86.33784	326.61493	43.18733	15.23986	0.0566319	0.22972645	2.6403533	20	—	—
406041 2006 TD_{106}	15.7	X	324.65164	106.22154	22.51601	18.88901	0.1752039	0.22715082	2.6602748	20	—	—
406042 2006 TR_{109}	16.6	X	138.70254	246.26530	97.16270	15.98534	0.2675424	0.23905940	2.5711782	20	1 17.1	20.6
406043 2006 TU_{119}	16.9	X	11.83709	346.49323	128.13515	12.49659	0.1211504	0.23140320	2.6275832	20	—	—
406044 2006 TX_{124}	17.8	X	83.12902	115.79539	276.50958	3.66037	0.1447960	0.23305372	2.6151625	20	—	—
406045 2006 UY_{2}	15.0	X	271.70157	271.54824	101.60165	4.19154	0.2350610	0.12311201	4.0019265	20	6 10.7	20.7
406046 2006 UQ_{5}	17.3	X	58.39756	318.17090	82.78036	3.15747	0.2193029	0.23012440	2.6373085	20	—	—
406047 2006 UQ_{7}	17.5	X	76.03201	334.09766	58.62038	7.50554	0.2599757	0.23202116	2.6229156	20	—	—
406048 2006 UA_{9}	16.5	X	106.21756	321.60736	57.43086	13.12709	0.2062584	0.23558193	2.5964187	20	1 20.9	20.1
406049 2006 UH_{10}	17.5	X	137.96580	335.05376	345.58621	5.51736	0.2658367	0.23616707	2.5921283	20	—	—
406050 2006 UN_{16}	17.0	X	101.93457	339.33389	59.04976	12.74906	0.1820801	0.23684415	2.5871857	20	2 7.7	20.6
406051 2006 US_{21}	17.3	X	181.76709	289.87530	16.90571	5.91367	0.1038675	0.23962176	2.5671537	20	—	—
406052 2006 UA_{25}	17.9	X	81.12194	76.89922	2.34258	3.01299	0.2045354	0.24016246	2.5632992	20	3 2.3	20.7
406053 2006 UJ_{31}	17.5	X	90.08482	320.98757	15.14662	2.14524	0.0973338	0.22543907	2.6737241	20	—	—
406054 2006 UK_{31}	17.8	X	125.12701	349.84834	32.67151	6.36152	0.1487809	0.24088612	2.5581629	20	2 8.5	21.4
406055 2006 UL_{31}	18.0	X	86.39074	9.29724	14.82450	0.97857	0.1356867	0.23317094	2.6142860	20	—	—
406056 2006 UC_{34}	17.6	X	63.32907	351.52617	42.07922	3.24320	0.1164817	0.22983862	2.6394942	20	—	—
406057 2006 US_{34}	18.2	X	114.64980	11.04914	38.61890	5.15527	0.2731072	0.24244296	2.5471997	20	3 16.9	22.0
406058 2006 UU_{38}	17.8	X	125.44319	290.11934	36.10648	2.57774	0.0786653	0.22962345	2.6411429	20	—	—
406059 2006 UB_{50}	17.5	X	16.39964	206.92527	264.42577	4.78873	0.1005092	0.23499988	2.6007041	20	—	—
406060 2006 UW_{53}	17.5	X	101.17172	292.20784	70.59086	3.42650	0.1540310	0.23067608	2.6331020	20	—	—
406061 2006 UK_{61}	16.9	X	96.82476	324.32327	49.94571	12.70728	0.1890828	0.23119729	2.6291431	20	—	—
406062 2006 UH_{63}	17.6	X	84.74332	57.20088	357.66516	4.22801	0.1777034	0.23697232	2.5862528	20	1 31.7	20.6
406063 2006 UM_{73}	18.1	X	84.80643	95.21724	337.91300	3.62818	0.2516470	0.23981801	2.5657530	20	3 6.3	21.1
406064 2006 UZ_{77}	17.6	X	94.82674	35.13699	5.12414	4.89408	0.2217134	0.23753852	2.5821414	20	2 3.4	20.7
406065 2006 UH_{79}	17.7	X	174.38650	313.29646	353.21675	4.50690	0.2206153	0.24029551	2.5623529	20	—	—
406066 2006 UD_{81}	17.4	X	105.27729	269.01151	104.07911	3.51081	0.0514549	0.23370238	2.6103212	20	—	—
406067 2006 UP_{85}	16.7	X	256.28847	182.62966	31.79546	12.15180	0.1230314	0.23083460	2.6318964	20	—	—
406068 2006 UT_{85}	17.4	X	141.27652	40.40248	295.53227	2.61699	0.0947114	0.23488670	2.6015396	20	—	—
406069 2006 UM_{93}	17.6	X	104.91048	275.52415	68.82694	3.54396	0.1520005	0.23065137	2.6332900	20	—	—
406070 2006 UR_{94}	18.0	X	125.16741	289.68034	90.17641	2.94922	0.1865371	0.24050236	2.5608835	20	2 8.3	21.6
406071 2006 UN_{96}	17.3	X	73.10646	189.97290	166.81987	3.03089	0.1189005	0.22605688	2.6688504	20	—	—
406072 2006 UR_{108}	17.3	X	137.05224	292.07982	65.30013	9.59579	0.1829514	0.23815732	2.5776667	20	1 25.1	21.2
406073 2006 UB_{116}	17.7	X	170.79983	116.72386	180.80291	1.70368	0.1330277	0.23646001	2.5899870	20	—	—
406074 2006 UO_{117}	17.2	X	77.19015	314.14014	33.06792	4.40690	0.0487610	0.22496763	2.6774582	20	—	—
406075 2006 UJ_{119}	16.7	X	276.01309	93.49778	34.91225	13.20077	0.0309752	0.21933165	2.7231309	20	12 16.4	20.5
406076 2006 UC_{123}	17.1	X	356.08319	78.96458	34.91349	12.71546	0.1226639	0.23063046	2.6334492	20	—	—
406077 2006 UN_{125}	17.3	X	1.61043	95.65228	341.86203	3.83301	0.0604005	0.22548166	2.6733875	20	—	—
406078 2006 UV_{127}	17.7	X	67.08854	175.05925	280.56851	2.23442	0.1724620	0.23964260	2.5670049	20	2 24.2	20.4
406079 2006 UR_{128}	17.6	X	70.60195	28.95404	354.87961	1.65034	0.1059633	0.22954113	2.6417742	20	—	—
406080 2006 UU_{135}	17.5	X	136.00742	157.79988	189.52349	3.32776	0.1901333	0.23780792	2.5801909	20	1 10.1	21.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406081 2006 UK_{143}	17.6	X	114.42270	62.99150	303.21474	2.38372	0.2918336	0.23773922	2.5806879	20	1 23.7	21.1
406082 2006 UM_{144}	17.5	X	104.61327	4.78672	26.18161	7.56023	0.1675071	0.23609667	2.5926436	20	1 28.5	20.9
406083 2006 US_{149}	16.1	X	21.74295	266.68568	95.70758	14.98909	0.1130043	0.21708640	2.7418749	20	12 11.4	19.6
406084 2006 UQ_{174}	16.6	X	342.95506	91.90688	33.92785	21.91537	0.1290682	0.22752593	2.6573501	20	—	—
406085 2006 UL_{180}	16.8	X	136.55155	343.10842	60.40832	14.14140	0.1816804	0.24640759	2.5198034	20	3 26.4	20.9
406086 2006 UA_{182}	16.8	X	59.64541	1.06716	66.42274	13.37230	0.1581749	0.23332789	2.6131135	20	1 2.6	19.6
406087 2006 US_{187}	16.3	X	196.07353	17.97358	266.39736	10.92767	0.2349381	0.24261535	2.5459930	20	—	—
406088 2006 UP_{188}	16.5	X	102.42057	147.78535	270.63000	12.05958	0.1244146	0.24317566	2.5420806	20	2 14.4	20.0
406089 2006 UQ_{194}	17.5	X	113.46278	148.72956	193.74028	1.43517	0.0871273	0.23130360	2.6283374	20	—	—
406090 2006 UQ_{203}	16.7	X	65.38853	91.64904	316.59408	10.41413	0.1876483	0.23253116	2.6190791	20	—	—
406091 2006 UJ_{245}	17.2	X	32.68248	226.91963	206.27084	5.74327	0.0542918	0.23152113	2.6266908	20	—	—
406092 2006 UN_{255}	17.6	X	71.06101	202.94157	200.86074	2.37873	0.0731631	0.23333863	2.6130333	20	—	—
406093 2006 UD_{259}	17.9	X	104.07575	172.28476	217.43410	3.66604	0.1878610	0.23826716	2.5768744	20	1 25.1	21.2
406094 2006 UK_{263}	16.4	X	122.04289	331.08211	37.97697	14.42016	0.1817267	0.23593416	2.5938339	20	1 25.7	20.3
406095 2006 UY_{268}	17.8	X	23.75583	53.41856	45.08930	4.11658	0.0605241	0.23200098	2.6230677	20	—	—
406096 2006 UE_{271}	17.5	X	318.15917	131.16488	329.04105	3.67157	0.0799597	0.21872999	2.7281223	20	—	—
406097 2006 UX_{276}	17.7	X	53.34650	90.28221	356.65556	3.70382	0.2470994	0.23473587	2.6026539	20	1 28.9	19.8
406098 2006 UY_{281}	17.1	X	75.03543	293.44214	61.66782	3.45765	0.1232212	0.22407886	2.6845333	20	—	—
406099 2006 UW_{286}	17.1	X	74.05558	223.26704	222.47337	11.96676	0.2451599	0.23728275	2.5839966	20	3 1.5	20.3
406100 2006 UM_{313}	17.5	X	43.53038	189.10475	251.90293	4.03269	0.1831956	0.23072466	2.6327323	20	—	—
406101 2006 UJ_{335}	17.8	X	129.29830	177.66310	173.68776	2.24839	0.1223120	0.23442397	2.6049618	20	—	—
406102 2006 VV_{3}	17.5	X	108.42287	130.43058	273.72425	2.65108	0.2785448	0.23966623	2.5668362	20	3 1.1	21.2
406103 2006 VR_{4}	17.8	X	77.45369	175.68533	248.42505	1.46830	0.3075111	0.23509543	2.5999995	20	2 21.5	20.5
406104 2006 VZ_{7}	17.5	X	92.83611	164.60206	228.77590	2.86172	0.1544638	0.23370245	2.6103207	20	1 10.5	20.7
406105 2006 VQ_{9}	17.3	X	95.26587	174.06203	239.08649	3.48919	0.2448789	0.23791831	2.5793927	20	2 21.0	20.5
406106 2006 VW_{9}	17.4	X	96.22440	337.17719	32.06683	4.67454	0.0689644	0.23114398	2.6295473	20	—	—
406107 2006 VB_{10}	16.8	X	280.12336	247.69142	237.69855	3.16066	0.2683735	0.21171106	2.7880915	20	11 16.6	19.9
406108 2006 VU_{10}	16.9	X	113.18453	128.81702	233.86786	4.56302	0.1777320	0.23392845	2.6086392	20	1 2.1	20.3
406109 2006 VX_{22}	17.5	X	93.18788	339.47371	72.03648	2.25987	0.1091818	0.23659506	2.5890013	20	1 28.6	20.7
406110 2006 VW_{27}	16.6	X	337.72845	63.15633	55.38689	15.74945	0.1044460	0.22418449	2.6836900	20	—	—
406111 2006 VQ_{29}	17.1	X	96.27191	334.70764	38.18053	3.52184	0.1278951	0.22975653	2.6401229	20	—	—
406112 2006 VR_{33}	16.4	X	90.70817	353.43829	61.02418	15.32838	0.0838414	0.23765024	2.5813321	20	1 28.2	19.9
406113 2006 VZ_{36}	16.8	X	102.76667	151.52313	241.51844	8.40075	0.0980481	0.23655483	2.5892948	20	1 13.6	20.2
406114 2006 VF_{42}	18.0	X	26.66182	5.65634	82.35481	3.60334	0.1792840	0.22909954	2.6451679	20	—	—
406115 2006 VP_{43}	16.3	X	354.76667	0.48338	75.71924	13.80078	0.2534611	0.21880877	2.7274674	20	—	—
406116 2006 VX_{43}	17.5	X	117.09300	86.69627	287.76691	2.21841	0.1551803	0.23528203	2.5986246	20	1 18.8	21.0
406117 2006 VB_{50}	16.3	X	125.26048	113.14105	248.66056	11.80024	0.2165852	0.23496329	2.6009741	20	1 17.7	20.2
406118 2006 VM_{52}	17.1	X	144.35225	311.49017	328.70618	5.07230	0.0492743	0.22088441	2.7103540	20	—	—
406119 2006 VY_{52}	17.4	X	43.18118	47.22095	320.85233	4.99408	0.0276721	0.21773199	2.7364523	20	—	—
406120 2006 VP_{58}	17.7	X	14.76251	280.19807	134.28574	2.02082	0.0565822	0.22041276	2.7142191	20	—	—
406121 2006 VB_{60}	17.0	X	58.25624	343.90705	90.07880	4.35360	0.1116567	0.23267977	2.6179638	20	1 5.3	19.8
406122 2006 VP_{62}	17.4	X	35.04312	178.50678	259.96979	2.00929	0.1079475	0.22807026	2.6531203	20	—	—
406123 2006 VU_{62}	17.7	X	124.40674	0.03592	9.51377	0.85898	0.1813790	0.23596147	2.5936338	20	1 24.9	21.2
406124 2006 VT_{64}	17.5	X	130.88862	262.36155	118.74097	0.93796	0.1974605	0.23943396	2.5684959	20	2 16.6	21.3
406125 2006 VP_{65}	17.8	X	117.84323	143.61762	231.19867	3.87500	0.1771438	0.23567391	2.5957431	20	1 22.1	21.3
406126 2006 VC_{70}	16.9	X	121.08330	183.21723	222.92662	2.63338	0.2109148	0.24065380	2.5598091	20	3 8.7	20.7
406127 2006 VR_{82}	17.6	X	357.86146	36.65484	37.09641	5.82767	0.0962546	0.22124263	2.7074275	20	—	—
406128 2006 VT_{82}	17.4	X	126.73517	287.36329	33.13329	2.62948	0.1373266	0.22837723	2.6507423	20	—	—
406129 2006 VN_{84}	16.9	X	103.01155	51.73843	26.69204	5.73930	0.2155705	0.24183494	2.5514673	20	4 1.4	20.3
406130 2006 VF_{85}	17.2	X	98.58495	299.67012	78.50847	6.93069	0.1895688	0.23349667	2.6118541	20	1 5.1	20.3
406131 2006 VY_{96}	16.4	X	75.97971	341.21458	76.99788	15.22625	0.0801749	0.23118800	2.6292135	20	1 9.2	19.7
406132 2006 VM_{98}	16.8	X	97.06414	340.47910	62.10643	15.69159	0.1071855	0.23457612	2.6038353	20	1 24.9	20.4
406133 2006 VF_{102}	17.3	X	93.38395	293.03871	30.60194	6.83586	0.0378851	0.22131999	2.7067966	20	—	—
406134 2006 VJ_{103}	16.9	X	122.30216	251.80083	79.35908	14.44135	0.1278215	0.22654546	2.6650118	20	—	—
406135 2006 VB_{104}	17.1	X	351.05518	72.61090	14.68969	8.31888	0.0601911	0.22675064	2.6634039	20	—	—
406136 2006 VL_{108}	17.0	X	64.21620	177.43767	255.44160	5.65572	0.1120702	0.23372328	2.6101656	20	1 12.5	19.9
406137 2006 VP_{109}	16.8	X	45.36879	327.55214	87.03178	14.58500	0.2410443	0.22772648	2.6557898	20	—	—
406138 2006 VM_{111}	17.4	X	125.31418	42.70865	311.02296	3.23876	0.2548030	0.23502262	2.6005365	20	1 15.7	21.1
406139 2006 VW_{113}	16.5	X	11.39421	181.28709	270.80204	12.78286	0.2108180	0.22349388	2.6892156	20	—	—
406140 2006 VA_{114}	17.7	X	96.28590	85.30294	321.83198	0.89696	0.1491294	0.23722335	2.5844279	20	2 1.6	20.6
406141 2006 VE_{115}	17.5	X	74.14473	99.86516	281.53193	3.38044	0.0991939	0.22902775	2.6457206	20	—	—
406142 2006 VM_{116}	16.5	X	111.10458	166.81938	216.63313	7.51104	0.1947370	0.23599391	2.5933961	20	1 26.1	20.1
406143 2006 VK_{118}	17.9	X	70.13254	35.14551	50.47399	4.56389	0.2591145	0.23584317	2.5945011	20	3 4.8	20.6
406144 2006 VP_{127}	17.3	X	82.04130	320.09621	28.63880	9.17236	0.1348780	0.22388894	2.6860512	20	—	—
406145 2006 VP_{130}	17.0	X	136.13630	276.70068	68.75283	6.65263	0.2784033	0.23680813	2.5874481	20	1 19.2	21.1
406146 2006 VR_{131}	17.3	X	91.03371	217.90822	187.05262	6.65048	0.3439939	0.23537718	2.5979243	20	2 20.5	20.7
406147 2006 VA_{136}	17.3	X	108.06878	304.69136	54.72285	2.38355	0.1015249	0.22972865	2.6403365	20	—	—
406148 2006 VO_{140}	17.4	X	110.14943	251.55585	81.78120	2.75661	0.0980512	0.22429947	2.6827727	20	—	—
406149 2006 VH_{150}	16.4	X	42.19753	31.64870	40.52018	14.64469	0.0640269	0.23120321	2.6290982	20	—	—
406150 2006 VV_{154}	17.1	X	90.99271	328.63023	86.61979	6.10296	0.1502961	0.23774690	2.5806324	20	2 6.6	20.2
406151 2006 VB_{155}	17.2	X	110.76350	272.50764	83.19849	12.25491	0.2171623	0.23353239	2.6115878	20	—	—
406152 2006 VK_{169}	17.2	X	68.70776	195.98171	224.62133	4.25182	0.1739330	0.23078998	2.6322355	20	1 11.4	20.1
406153 2006 VM_{169}	17.9	X	45.89440	165.40237	244.03292	4.30812	0.2152463	0.22516003	2.6759327	20	—	—
406154 2006 VT_{170}	17.7	X	115.42838	141.94167	255.38954	2.45072	0.2325255	0.23921323	2.5700757	20	2 23.4	21.3
406155 2006 VU_{171}	16.7	X	91.35668	271.68829	133.84739	13.62506	0.2597417	0.23527724	2.5986599	20	2 10.7	19.9
406156 2006 VA_{172}	16.7	X	302.89738	203.97920	265.74135	8.98051	0.1072794	0.21415138	2.7668703	20	12 25.8	20.0
406157 2006 WT_{4}	17.8	X	72.65036	82.74324	340.87506	2.26009	0.1165605	0.23777847	2.5804039	20	1 14.5	20.6
406158 2006 WM_{6}	16.7	X	96.65047	314.87135	73.35134	18.23861	0.2031077	0.23388111	2.6089912	20	1 18.7	20.1
406159 2006 WU_{11}	16.7	X	51.17328	21.43378	56.57277	14.98614	0.2319382	0.23050482	2.6344060	20	1 9.4	19.2
406160 2006 WQ_{17}	18.1	X	86.25545	73.10668	299.60149	2.19732	0.0703636	0.22977890	2.6399515	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
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406161 2006 WP_{26}	17.1	X	127.79163	300.66798	61.53103	12.56673	0.2928491	0.23813479	2.5778293	20	2 4.9	21.3
406162 2006 WF_{35}	17.8	X	55.14964	262.13995	119.99079	4.90197	0.1039910	0.22314290	2.6920348	20	—	—
406163 2006 WB_{38}	17.3	X	188.47327	134.18710	197.57859	6.21546	0.1674217	0.24288898	2.5440804	20	2 5.7	21.5
406164 2006 WH_{38}	17.6	X	135.51191	278.41737	95.03771	6.30253	0.2114163	0.24006454	2.5639962	20	2 14.9	21.5
406165 2006 WC_{40}	17.4	X	132.62399	161.04198	184.82233	5.67170	0.2765832	0.23532726	2.5982916	20	1 14.5	21.4
406166 2006 WY_{45}	17.1	X	121.39283	106.92266	210.15368	14.24117	0.0837025	0.22687948	2.6623955	20	—	—
406167 2006 WM_{47}	16.3	X	158.40190	18.77768	258.64423	13.36494	0.0614918	0.22090473	2.7101877	20	—	—
406168 2006 WS_{47}	17.4	X	58.75255	43.26217	24.45215	2.46042	0.1340384	0.23061572	2.6335614	20	—	—
406169 2006 WX_{50}	17.7	X	109.13291	147.55814	251.15275	4.12778	0.1968439	0.23693873	2.5864972	20	2 12.8	21.2
406170 2006 WN_{52}	16.8	X	258.40487	240.90108	255.19648	3.77987	0.0735795	0.21071875	2.7968377	20	11 26.4	20.6
406171 2006 WC_{58}	17.5	X	92.41035	125.87945	280.78705	3.52958	0.2118510	0.23565536	2.5958794	20	2 4.7	20.6
406172 2006 WB_{72}	17.1	X	248.34377	277.33348	241.97920	7.84512	0.1513647	0.21373365	2.7704742	20	12 2.1	20.7
406173 2006 WF_{72}	17.5	X	138.99788	67.92323	272.91147	1.34120	0.1919973	0.23559219	2.5963433	20	1 6.3	21.3
406174 2006 WC_{74}	17.4	X	13.50610	64.49029	45.23619	4.41137	0.0374291	0.23098731	2.6307362	20	—	—
406175 2006 WB_{78}	17.6	X	38.05326	218.28718	240.70521	2.76753	0.2286839	0.23148519	2.6269627	20	1 7.3	19.6
406176 2006 WQ_{80}	17.3	X	67.97775	141.31119	250.98242	10.46926	0.1619246	0.22794854	2.6540647	20	—	—
406177 2006 WQ_{81}	17.5	X	47.50327	22.55760	79.78282	6.29801	0.2423171	0.23274170	2.6174994	20	2 8.8	19.7
406178 2006 WO_{94}	17.3	X	325.02754	48.58101	96.11036	4.58708	0.1163767	0.22605953	2.6688295	20	—	—
406179 2006 WL_{98}	17.5	X	107.14847	264.71470	80.93381	2.96045	0.2122575	0.22882427	2.6472888	20	—	—
406180 2006 WV_{99}	17.8	X	89.67142	155.16267	239.21248	4.69699	0.1601646	0.23261889	2.6184205	20	1 8.0	20.9
406181 2006 WC_{100}	16.6	X	359.95979	307.14242	156.97745	5.05041	0.1866832	0.22647794	2.6655415	20	—	—
406182 2006 WD_{100}	17.4	X	79.43546	305.40230	103.62748	5.25017	0.2571090	0.23472648	2.6027232	20	1 27.9	20.1
406183 2006 WW_{101}	17.4	X	136.09050	279.86617	92.24798	6.88716	0.3242758	0.24216751	2.5491308	20	2 25.0	21.7
406184 2006 WX_{108}	17.0	X	45.52193	338.27967	71.44792	9.05661	0.2870229	0.22597755	2.6694750	20	—	—
406185 2006 WE_{117}	16.5	X	54.13576	182.88870	261.72916	12.31683	0.1083654	0.23383670	2.6093215	20	1 10.4	19.5
406186 2006 WQ_{117}	17.1	X	104.51384	132.05662	286.70530	15.10804	0.4026176	0.23834913	2.5762836	20	3 23.0	21.5
406187 2006 WM_{122}	17.3	X	30.35794	217.99476	201.70388	9.23389	0.1419105	0.22393962	2.6856460	20	—	—
406188 2006 WK_{124}	17.9	X	107.73447	63.22214	282.93288	1.08405	0.2052088	0.22881457	2.6473636	20	—	—
406189 2006 WP_{128}	17.4	X	84.74048	337.79871	59.98327	0.28076	0.1417138	0.23139767	2.6276250	20	1 3.3	20.2
406190 2006 WJ_{136}	17.3	X	106.25208	90.18974	223.85249	5.62383	0.0599781	0.22018710	2.7160732	20	—	—
406191 2006 WP_{139}	17.3	X	72.55120	279.34375	77.82236	6.28940	0.0882734	0.22115664	2.7081293	20	—	—
406192 2006 WY_{142}	17.3	X	82.50757	222.09377	155.20335	3.65623	0.0920224	0.22825102	2.6517194	20	—	—
406193 2006 WT_{172}	17.0	X	90.02537	113.86869	246.14615	6.20248	0.1594356	0.22553466	2.6729686	20	—	—
406194 2006 WA_{179}	17.7	X	100.77080	95.77166	258.75498	1.64454	0.1661438	0.22974915	2.6401794	20	—	—
406195 2006 WR_{185}	16.5	X	126.89943	321.96575	78.69834	16.05631	0.1120741	0.24350234	2.5398064	20	3 4.9	20.4
406196 2006 WP_{190}	16.6	X	319.96519	51.46676	69.22543	9.31381	0.2652227	0.21581661	2.7526192	20	—	—
406197 2006 WV_{194}	16.6	X	133.37724	294.62558	77.20563	14.34928	0.1578498	0.23802537	2.5786192	20	2 6.9	20.5
406198 2006 WX_{199}	17.1	X	96.39128	284.65720	104.33276	5.35177	0.0197094	0.22978657	2.6398928	20	—	—
406199 2006 WQ_{200}	17.7	X	117.20117	202.85887	171.31520	2.29166	0.2308346	0.23498658	2.6008023	20	1 28.5	21.4
406200 2006 WP_{201}	16.6	X	99.29142	113.94121	278.66064	17.50609	0.2888587	0.23329881	2.6133307	20	2 2.8	20.2
406201 2006 XF_{16}	16.6	X	52.75082	140.34703	291.14639	11.82818	0.1490479	0.22648776	2.6654644	20	—	—
406202 2006 XV_{16}	16.6	X	124.10877	285.41946	91.04436	11.73671	0.2558027	0.23401595	2.6079889	20	2 14.4	20.7
406203 2006 XL_{25}	17.1	X	78.05220	142.85449	263.86066	4.03230	0.2766983	0.23178503	2.6246967	20	1 24.7	19.8
406204 2006 XB_{38}	16.9	X	84.19007	328.94926	86.14445	6.07227	0.3287541	0.23253244	2.6190695	20	2 27.1	20.1
406205 2006 XM_{63}	16.8	X	78.89576	252.38168	140.70526	12.13224	0.3041894	0.23184202	2.6242665	20	1 12.6	19.5
406206 2006 XT_{63}	16.4	X	120.50044	278.97533	117.59228	13.89790	0.1547065	0.23792583	2.5793384	20	2 22.1	20.1
406207 2006 XN_{65}	16.4	X	118.43337	247.12164	133.47268	12.68127	0.1870660	0.23522534	2.5990421	20	2 1.5	19.8
406208 2006 YP_{8}	17.3	X	100.37165	312.58413	89.83893	4.26274	0.1646007	0.22937146	2.6430769	20	2 5.7	20.7
406209 2006 YW_{22}	16.9	X	62.27657	79.23653	298.55978	5.18798	0.0364991	0.21716275	2.7412322	20	—	—
406210 2006 YN_{38}	17.1	X	113.72430	74.74649	318.59171	4.33411	0.3391926	0.23456944	2.6038848	20	3 1.1	21.2
406211 2006 YV_{45}	16.3	X	27.67103	104.15991	255.14527	23.65287	0.1784118	0.21408523	2.7674402	20	12 21.6	20.0
406212 2006 YP_{47}	16.3	X	34.82173	129.50108	300.90906	11.00455	0.1349350	0.22071301	2.7117570	20	—	—
406213 2007 AB_{2}	20.3	X	32.25417	280.80328	127.02566	1.46001	0.5451767	0.37105846	1.9179671	20	—	—
406214 2007 AP_{3}	16.3	X	97.01333	305.67859	103.37600	12.60485	0.1777840	0.23167397	2.6255355	20	2 12.9	19.7
406215 2007 AZ_{24}	17.5	X	26.97949	116.69931	335.67976	5.53668	0.2499244	0.22339026	2.6900472	20	—	—
406216 2007 AN_{29}	17.6	X	326.84937	353.19267	89.18150	2.75815	0.1406157	0.20970424	2.8058508	20	12 29.1	20.5
406217 2007 AM_{31}	16.4	X	43.81439	162.68657	282.24957	12.89345	0.2135825	0.22400834	2.6850966	20	1 2.4	18.4
406218 2007 BB_{15}	17.3	X	38.09063	38.85637	340.28279	4.50129	0.1751028	0.21077556	2.7963351	20	—	—
406219 2007 BK_{18}	16.8	X	357.98286	2.72295	111.92199	12.91180	0.1828242	0.21952655	2.7215188	20	—	—
406220 2007 BD_{20}	16.3	X	268.75278	209.31930	317.55898	8.59025	0.1566073	0.21057035	2.7981516	20	—	—
406221 2007 BO_{20}	17.5	X	37.89121	323.56216	119.07012	5.06253	0.4751034	0.22507362	2.6766175	20	—	—
406222 2007 BP_{22}	17.3	X	44.13250	313.79554	98.99055	6.51275	0.2058711	0.22106544	2.7088740	20	—	—
406223 2007 BP_{31}	17.4	X	108.28890	42.40298	274.06864	5.42553	0.0194820	0.21097625	2.7945615	20	—	—
406224 2007 BV_{31}	17.4	X	48.54985	307.36077	135.31379	7.28972	0.3272098	0.22582008	2.6707158	20	1 21.7	19.1
406225 2007 BF_{32}	17.3	X	43.61455	113.88618	290.30122	4.15388	0.2142993	0.21962821	2.7206790	20	—	—
406226 2007 BL_{32}	16.9	X	147.22544	178.38917	126.10186	7.59509	0.0152147	0.21564996	2.7540372	20	—	—
406227 2007 BO_{34}	16.6	X	295.80909	33.54955	122.04079	9.94684	0.0746202	0.21477143	2.7615424	20	—	—
406228 2007 BR_{36}	16.7	X	108.11945	312.25145	93.16115	7.12440	0.2799764	0.23337299	2.6127768	20	3 7.8	20.5
406229 2007 BA_{39}	16.5	X	19.35622	154.65804	278.46195	5.17882	0.0635976	0.21626589	2.7488056	20	—	—
406230 2007 BO_{50}	15.9	X	35.46594	321.41959	105.27534	15.53875	0.0885770	0.21618118	2.7495236	20	—	—
406231 2007 BR_{52}	16.6	X	114.85912	297.49769	117.76850	8.65083	0.3004603	0.23633825	2.5908765	20	3 29.4	20.7
406232 2007 BZ_{54}	17.5	X	102.31442	259.16148	152.37616	4.10711	0.1101281	0.23067968	2.6330746	20	2 10.2	21.0
406233 2007 BO_{63}	16.6	X	199.52985	187.64402	1.70562	4.80383	0.0349875	0.20055237	2.8905746	20	11 21.9	20.7
406234 2007 BC_{66}	16.5	X	160.50126	47.94859	149.97615	8.94972	0.0194224	0.19102111	2.9859450	20	10 21.2	20.8
406235 2007 BF_{73}	16.8	X	78.85903	97.19182	2.36397	28.32336	0.3675460	0.23480990	2.6021068	20	4 11.2	20.5
406236 2007 BJ_{100}	16.9	X	49.89435	275.02197	121.82458	5.46511	0.0783017	0.21389416	2.7690880	20	—	—
406237 2007 CW_{10}	17.4	X	7.29074	113.30021	316.36303	8.85045	0.2411581	0.21481265	2.7611891	20	—	—
406238 2007 CQ_{17}	16.7	X	308.65728	9.25245	128.39763	8.83645	0.1638893	0.21106542	2.7937744	20	—	—
406239 2007 CB_{37}	17.5	X	36.23207	267.52252	130.90248	4.77246	0.1047908	0.21164819	2.7886436	20	—	—
406240 2007 CB_{48}	16.4	X	194.44550	67.37870	156.55662	8.43496	0.1475138	0.20158747	2.8806712	20	12 18.7	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406241 2007 CM_{50}	17.0	X	101.07487	248.95032	178.42631	5.74593	0.3366399	0.23455474	2.6039936	20	4 1.1	20.7
406242 2007 CJ_{55}	17.3	X	16.17905	255.80685	182.95245	3.19001	0.1753146	0.21626834	2.7487848	20	—	—
406243 2007 CY_{62}	16.1	X	336.71872	144.93067	334.58880	9.78936	0.0612947	0.21301971	2.7766610	20	—	—
406244 2007 CP_{75}	17.9	X	327.72345	111.15173	327.53249	1.69148	0.0560254	0.20389652	2.8588816	20	12 20.8	21.5
406245 2007 DP_{13}	16.1	X	80.02671	328.31363	99.76039	16.54889	0.2733344	0.22871385	2.6481408	20	3 4.5	19.6
406246 2007 DE_{21}	16.8	X	148.12156	78.38935	115.67391	2.54304	0.1224261	0.18521079	3.0480718	20	9 30.9	21.6
406247 2007 DT_{22}	16.6	X	349.00998	35.62456	342.69897	11.53616	0.1145498	0.19310308	2.9644440	20	10 31.0	20.3
406248 2007 DX_{25}	17.0	X	170.81705	82.92469	119.21578	2.53005	0.1119671	0.19082974	2.9879409	20	11 1.6	21.6
406249 2007 DG_{32}	16.6	X	155.35303	230.31626	349.98799	10.78619	0.1251168	0.18976319	2.9991262	20	11 3.1	21.6
406250 2007 DL_{32}	16.9	X	177.10092	29.29380	144.40697	4.18191	0.0543170	0.18695703	3.0290621	20	10 7.2	21.4
406251 2007 DY_{32}	15.8	X	128.26602	39.09645	157.52889	10.24513	0.0632003	0.18086244	3.0967333	20	9 10.2	20.3
406252 2007 DW_{38}	16.4	X	146.71021	110.64793	97.77306	2.47579	0.1733400	0.18410025	3.0603173	20	10 17.1	21.5
406253 2007 DD_{43}	16.9	X	26.47345	288.19715	164.46113	13.04703	0.2696790	0.22025293	2.7155320	20	—	—
406254 2007 DA_{55}	16.1	X	167.63655	223.88928	324.64133	9.50027	0.0477556	0.18961028	3.0007384	20	10 9.5	20.6
406255 2007 DP_{63}	16.6	X	38.30427	309.52173	115.36204	6.14131	0.0535307	0.21454809	2.7634585	20	—	—
406256 2007 DH_{91}	15.8	X	106.08436	80.93715	151.52575	12.53579	0.1100722	0.18431469	3.0579432	20	10 6.9	20.5
406257 2007 DE_{96}	16.6	X	197.80242	45.02506	138.72806	7.24224	0.0376937	0.19341027	2.9613042	20	11 14.9	21.0
406258 2007 DQ_{115}	16.6	X	52.17156	135.27680	154.01486	1.13992	0.1694146	0.18132036	3.0915172	20	10 20.3	20.8
406259 2007 DB_{116}	17.4	X	356.99179	251.19538	183.96208	1.94062	0.0523355	0.20485538	2.8499537	20	—	—
406260 2007 DS_{116}	16.6	X	52.17771	29.17154	81.51063	15.54767	0.2071449	0.22847144	2.6500136	20	3 5.6	19.6
406261 2007 DN_{117}	15.7	X	178.49265	354.07285	198.18905	8.03307	0.0270327	0.18340885	3.0680035	20	10 31.6	20.1
406262 2007 EB_{4}	16.3	X	307.02748	90.62994	355.96698	16.98163	0.1085967	0.19645842	2.9305938	20	11 20.8	20.2
406263 2007 ER_{8}	16.2	X	125.42234	225.69279	3.25605	15.88799	0.2140434	0.18169082	3.0873135	20	10 19.2	21.5
406264 2007 EY_{28}	17.5	X	29.50932	56.89104	9.69322	2.46267	0.1699565	0.21556490	2.7547616	20	—	—
406265 2007 ED_{46}	16.4	X	156.58937	34.84672	179.89305	9.58396	0.0550849	0.18782236	3.0197513	20	11 4.1	21.0
406266 2007 ET_{48}	15.5	X	121.09452	190.10806	22.34513	21.24582	0.1697498	0.17700518	3.1415603	20	10 2.2	20.6
406267 2007 EK_{51}	15.3	X	159.00203	270.79332	328.37080	9.44416	0.0722191	0.19259465	2.9696589	20	12 2.9	20.0
406268 2007 EZ_{53}	16.0	X	98.99955	241.96343	27.27498	12.56861	0.1118260	0.18096757	3.0955338	20	11 7.0	20.7
406269 2007 EA_{58}	17.0	X	176.09516	91.26427	144.81637	12.07939	0.0630511	0.20332855	2.8642031	20	12 21.9	21.4
406270 2007 EB_{61}	16.4	X	123.08563	196.95572	1.94191	8.78246	0.0450881	0.18034769	3.1026229	20	9 6.8	21.0
406271 2007 EB_{66}	16.1	X	74.87104	151.42642	162.18047	9.76554	0.1520837	0.18906970	3.0064553	20	12 13.1	20.8
406272 2007 EW_{67}	16.5	X	95.28096	145.92544	85.39131	2.36396	0.0544308	0.17909663	3.1170548	20	9 14.9	21.0
406273 2007 EQ_{76}	16.0	X	168.58815	147.39302	350.89960	9.17104	0.0252852	0.17448171	3.1717780	20	8 14.5	20.6
406274 2007 EB_{84}	16.3	X	111.23028	63.33580	151.70086	10.46143	0.2349346	0.17767701	3.1336360	20	9 28.9	21.6
406275 2007 EN_{84}	16.0	X	74.18624	110.74098	165.69933	26.08373	0.1837494	0.18067412	3.0988847	20	11 4.4	21.1
406276 2007 ET_{101}	17.9	X	358.64957	77.84238	139.63742	5.05208	0.1205713	0.30386233	2.1912141	20	4 5.4	19.6
406277 2007 EH_{127}	16.9	X	73.11362	89.65720	181.53346	1.63068	0.1462655	0.18189346	3.0850200	20	10 19.4	21.3
406278 2007 EG_{135}	16.9	X	312.83372	290.38420	180.49557	5.85020	0.0295390	0.20114415	2.8849023	20	—	—
406279 2007 EJ_{135}	16.0	X	96.80941	278.10443	352.83362	8.77624	0.1265533	0.18579572	3.0416711	20	11 7.9	20.7
406280 2007 ES_{145}	16.1	X	46.79756	254.95017	164.34562	12.99797	0.1142622	0.21194450	2.7860438	20	—	—
406281 2007 EU_{145}	16.6	X	36.66322	315.57266	36.41746	4.73787	0.0692139	0.19331479	2.9622792	20	12 4.1	20.7
406282 2007 EY_{149}	16.6	X	117.04287	171.86222	92.92183	3.57007	0.1098450	0.18928809	3.0041425	20	11 23.3	21.3
406283 2007 EW_{161}	16.3	X	120.57552	56.85081	159.19219	20.27274	0.2441957	0.18314011	3.0710042	20	10 9.8	21.7
406284 2007 EU_{165}	16.0	X	132.69499	74.95235	150.96653	16.77038	0.1882345	0.18170707	3.0871294	20	10 29.5	21.4
406285 2007 EG_{174}	15.6	X	70.20498	271.35411	359.60178	9.25513	0.0837037	0.17850530	3.1239349	20	10 5.4	20.1
406286 2007 EM_{191}	16.6	X	154.52571	63.15610	157.30805	1.50404	0.0582366	0.18612932	3.0380356	20	11 6.9	21.2
406287 2007 EO_{216}	15.6	X	107.25187	33.41236	166.10645	29.73229	0.2225927	0.17458711	3.1705013	20	9 3.5	20.8
406288 2007 EC_{217}	16.3	X	105.93540	276.10640	356.14444	10.32460	0.0669955	0.18906997	3.0064524	20	11 14.1	20.9
406289 2007 ED_{217}	16.7	X	95.38625	245.05977	3.12676	2.89652	0.1629018	0.18008865	3.1055973	20	10 15.6	21.6
406290 2007 EO_{218}	16.7	X	36.54343	203.70021	183.73072	5.65056	0.0930735	0.20128802	2.8835275	20	—	—
406291 2007 EB_{219}	16.5	X	65.30517	309.71911	10.22015	9.39964	0.1172018	0.18848803	3.0126374	20	12 3.7	21.0
406292 2007 EK_{221}	16.2	X	342.80509	14.56854	1.45722	11.57107	0.0813552	0.18768429	3.0212322	20	10 17.4	20.2
406293 2007 FQ_{16}	16.8	X	129.03839	191.69404	159.17241	6.55305	0.0427729	0.21665588	2.7455060	20	—	—
406294 2007 FB_{25}	16.7	X	150.42759	7.49005	187.14086	5.27703	0.0805148	0.18204995	3.0832519	20	10 1.7	21.3
406295 2007 FK_{25}	16.7	X	13.71733	298.27077	181.00828	7.85304	0.1604451	0.21625627	2.7488871	20	—	—
406296 2007 FO_{29}	16.4	X	220.74084	95.14686	14.29916	8.85721	0.0675770	0.18162355	3.0880757	20	9 6.5	21.0
406297 2007 FJ_{48}	16.7	X	126.70408	65.64262	145.38804	1.91937	0.1293306	0.17698598	3.1417874	20	9 29.6	21.5
406298 2007 FT_{49}	16.3	X	204.26339	142.21592	45.01527	5.17279	0.0937698	0.18848806	3.0126371	20	11 17.1	20.6
406299 2007 GY_{23}	18.6	X	302.63182	241.89777	26.78140	1.02040	0.1878311	0.29584986	2.2306005	20	3 4.7	21.1
406300 2007 GR_{24}	18.0	X	322.58850	91.82305	186.60315	5.85999	0.1771369	0.30090555	2.2055450	20	4 22.6	19.8
406301 2007 GO_{51}	15.8	X	124.08096	101.56090	131.69429	16.70640	0.1975569	0.17956893	3.1115868	20	11 1.5	21.3
406302 2007 GX_{52}	18.7	X	290.99603	123.68777	141.56321	2.50906	0.1852514	0.29303582	2.2448582	20	2 15.1	21.6
406303 2007 GM_{59}	16.5	X	135.40362	311.15095	242.91186	4.00314	0.1068652	0.17513529	3.1638820	20	9 13.9	21.5
406304 2007 HV_{21}	16.5	X	27.09930	128.80910	207.24083	9.93777	0.0850896	0.17803186	3.1294707	20	11 1.9	20.6
406305 2007 HN_{27}	16.1	X	277.67371	240.20416	217.81834	7.60117	0.0502909	0.18251538	3.0780079	20	11 1.3	20.2
406306 2007 HN_{42}	16.3	X	117.47688	106.74016	125.21449	3.16235	0.0749787	0.17807287	3.1289903	20	10 12.8	21.0
406307 2007 HA_{43}	15.9	X	189.75040	83.17638	71.22095	5.98308	0.0951842	0.17947366	3.1126878	20	9 25.7	20.7
406308 2007 HG_{60}	16.2	X	119.01475	68.40536	158.73147	10.61042	0.1819837	0.17751086	3.1355911	20	10 16.7	21.4
406309 2007 HX_{69}	16.0	X	208.86631	311.39960	169.00143	10.51768	0.1879273	0.17634785	3.1493621	20	8 23.6	21.1
406310 2007 HB_{75}	18.6	X	13.40225	148.97611	75.49420	3.31494	0.1437598	0.30405887	2.1902697	20	5 18.4	20.1
406311 2007 HL_{84}	15.7	X	186.71581	143.39800	42.20740	17.71466	0.0659210	0.18384830	3.0631127	20	10 30.5	20.2
406312 2007 HP_{95}	16.1	X	109.24867	216.23962	41.96064	10.48859	0.0543257	0.18096248	3.0955918	20	11 1.9	20.6
406313 2007 JY_{13}	15.8	X	86.53838	221.03057	48.84062	16.41293	0.0945443	0.17602037	3.1532672	20	10 27.8	20.5
406314 2007 JQ_{19}	16.6	X	76.19688	15.91986	241.91656	1.29181	0.1609349	0.17282608	3.1920023	20	10 6.4	21.4
406315 2007 JY_{21}	18.1	X	333.00674	226.50073	59.68233	3.85877	0.1436698	0.30528800	2.1843869	20	5 31.8	19.4
406316 2007 JU_{27}	15.3	X	156.28342	145.09821	46.50645	16.91249	0.0949129	0.17969069	3.1101810	20	10 9.9	20.3
406317 2007 JH_{31}	15.9	X	148.82689	183.62494	33.64915	19.37890	0.1400797	0.18218671	3.0817088	20	10 27.4	21.0
406318 2007 JU_{37}	15.4	X	35.40929	320.69397	25.01485	10.43173	0.1135219	0.18375098	3.0641941	20	11 27.2	19.6
406319 2007 LP_{5}	15.9	X	144.06951	103.01122	105.45586	10.39544	0.1316725	0.17632726	3.1496073	20	10 17.1	21.1
406320 2007 LZ_{10}	15.7	X	245.47101	56.98352	79.66369	11.60265	0.0670304	0.18301613	3.0723909	20	11 8.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406321 2007 LR_{16}	15.5	X	213.86683	269.85824	236.21566	9.74134	0.0751953	0.17913561	3.1166026	20	10 7.1	20.3
406322 2007 LP_{24}	18.0	X	259.46818	220.11011	100.31617	3.41914	0.1986599	0.29348060	2.2425895	20	3 24.9	21.2
406323 2007 PE_{1}	17.7	X	13.14687	78.05074	161.44737	6.58271	0.1720971	0.29831166	2.2183117	20	6 16.5	19.3
406324 2007 PR_{8}	18.0	X	188.83314	191.19067	229.15074	3.58886	0.1049055	0.28990408	2.2609962	20	5 28.2	21.2
406325 2007 PH_{36}	17.2	X	230.22188	76.20289	288.76411	5.82861	0.2328309	0.28658926	2.2783972	20	4 17.2	21.0
406326 2007 PE_{49}	18.0	X	216.36680	224.82398	139.52720	4.12781	0.2344066	0.28238456	2.3009583	20	4 9.4	21.9
406327 2007 QH_{10}	18.1	X	266.84288	329.83412	329.62991	6.42216	0.1473587	0.28317985	2.2966482	20	3 8.2	21.3
406328 2007 QK_{12}	15.9	X	318.87366	199.19173	130.15939	11.32087	0.0909681	0.14939041	3.5176631	20	7 9.4	20.6
406329 2007 QQ_{17}	17.9	X	255.58930	238.76063	146.36083	5.18511	0.1925107	0.29269019	2.2466251	20	6 16.2	20.9
406330 2007 RB_{3}	17.6	X	199.93911	60.89092	331.73265	5.02393	0.1611979	0.28437794	2.2901932	20	4 29.1	21.3
406331 2007 RM_{14}	18.4	X	230.21721	351.02648	9.50994	4.49705	0.2282599	0.28283733	2.2985021	20	4 14.0	22.0
406332 2007 RU_{33}	17.4	X	255.29115	87.48076	191.03092	10.35256	0.2713145	0.27344754	2.3508236	20	1 21.7	21.7
406333 2007 RN_{34}	18.0	X	256.32600	186.22770	203.18542	3.43489	0.2315160	0.29380562	2.2409353	20	6 17.6	21.1
406334 2007 RS_{34}	18.2	X	212.80416	225.69197	165.90239	6.58715	0.1857763	0.28542777	2.2845740	20	5 13.1	21.8
406335 2007 RV_{37}	17.6	X	171.95831	256.89874	127.85654	2.38726	0.1946364	0.27345036	2.3508074	20	3 28.5	21.4
406336 2007 RW_{43}	17.6	X	254.04496	310.01604	320.06901	5.59658	0.1993215	0.27296932	2.3535684	20	1 17.4	21.3
406337 2007 RT_{46}	18.3	X	248.51033	120.19467	199.10771	6.08317	0.2072049	0.28078208	2.3097047	20	3 9.9	22.0
406338 2007 RU_{59}	17.9	X	199.59151	271.66216	101.57557	3.04231	0.2300895	0.27931323	2.3177951	20	4 7.0	21.8
406339 2007 RE_{64}	18.3	X	340.48648	225.21761	354.44357	2.42206	0.1597276	0.28232311	2.3012922	20	2 28.8	20.5
406340 2007 RZ_{67}	17.6	X	140.26510	278.20385	155.09089	5.02265	0.2010910	0.27596230	2.3365202	20	5 1.5	21.2
406341 2007 RW_{79}	18.2	X	188.06628	177.93842	182.58670	2.57496	0.1062824	0.27545554	2.3393851	20	3 8.5	21.6
406342 2007 RR_{87}	17.9	X	150.79871	350.60027	346.88226	0.38252	0.1687432	0.26199305	2.4188534	20	1 7.9	21.4
406343 2007 RU_{95}	17.7	X	207.03661	216.02702	163.75727	6.27256	0.1290928	0.27926872	2.3180414	20	4 24.4	21.1
406344 2007 RW_{95}	18.2	X	169.96339	266.92861	128.91192	3.12293	0.2229482	0.27337987	2.3512115	20	4 11.2	22.0
406345 2007 RZ_{106}	18.7	X	163.53103	70.33457	353.44341	2.80069	0.2213086	0.27856285	2.3219557	20	5 8.6	22.6
406346 2007 RG_{111}	15.7	X	219.70545	353.35600	26.10094	3.06698	0.2468010	0.12699179	3.9199959	20	5 2.2	22.1
406347 2007 RH_{127}	18.1	X	166.45250	51.93116	9.69143	2.48091	0.1569702	0.27779104	2.3262545	20	5 6.4	21.6
406348 2007 RL_{127}	18.1	X	256.31104	303.93343	8.69141	5.97855	0.2195784	0.28064449	2.3104596	20	3 10.3	21.7
406349 2007 RU_{128}	17.7	X	201.37030	188.56165	172.96775	5.27037	0.1442796	0.27546174	2.3393499	20	3 24.5	21.1
406350 2007 RU_{139}	17.5	X	195.17549	48.83484	350.18330	8.74453	0.1351831	0.28244808	2.3006133	20	5 1.9	21.0
406351 2007 RL_{140}	18.4	X	196.45459	144.39708	204.64846	1.48488	0.2371053	0.27438264	2.3454795	20	3 4.2	22.3
406352 2007 RC_{162}	17.7	X	140.20452	149.14638	207.36447	1.45915	0.1973399	0.26349203	2.4096708	20	1 23.2	21.0
406353 2007 RK_{169}	17.0	X	28.83076	66.48622	151.43175	6.39367	0.0544626	0.28793764	2.2712787	20	6 1.8	19.5
406354 2007 RA_{171}	17.9	X	106.59874	51.53384	27.78210	3.95207	0.1797977	0.27032337	2.3689014	20	3 30.6	21.0
406355 2007 RR_{171}	18.1	X	193.15315	347.41400	56.62884	2.40363	0.2065249	0.28183425	2.3039526	20	5 9.3	21.9
406356 2007 RE_{179}	17.8	X	212.36992	214.22567	168.77374	2.40337	0.1946323	0.27767311	2.3269131	20	4 30.2	21.6
406357 2007 RW_{181}	17.8	X	141.45581	69.54707	8.99968	5.64837	0.1854846	0.27406936	2.3472664	20	5 4.9	21.4
406358 2007 RR_{191}	18.0	X	264.15942	237.56170	31.85051	2.25194	0.1585565	0.27332962	2.3514997	20	1 28.9	21.5
406359 2007 RA_{193}	17.7	X	99.21099	265.86813	190.12016	6.73441	0.1186762	0.27145470	2.3623150	20	4 2.7	20.4
406360 2007 RU_{195}	17.9	X	179.38306	217.44093	191.47926	5.90810	0.1699839	0.27861660	2.3216570	20	5 4.2	21.5
406361 2007 RQ_{200}	18.0	X	125.12093	247.11602	215.89604	2.84337	0.0912088	0.27826477	2.3236135	20	5 12.2	20.8
406362 2007 RD_{202}	17.9	X	171.05965	52.68149	328.34212	1.03140	0.1848083	0.27207438	2.3587267	20	3 21.3	21.7
406363 2007 RH_{205}	17.6	X	146.73170	70.94120	346.50936	7.00934	0.0848468	0.27362549	2.3498042	20	4 3.2	20.8
406364 2007 RU_{210}	17.8	X	199.03971	74.35369	318.14490	3.31490	0.1745957	0.28285822	2.2983889	20	4 28.5	21.5
406365 2007 RU_{212}	17.8	X	219.49567	137.63783	235.43942	4.51856	0.1821987	0.28290045	2.2981601	20	4 22.9	21.3
406366 2007 RB_{214}	17.7	X	185.86435	121.18910	284.35572	2.25937	0.1896318	0.27949574	2.3167860	20	5 4.1	21.4
406367 2007 RJ_{216}	17.6	X	218.85618	48.06293	298.08850	1.34065	0.2351407	0.27760604	2.3272879	20	3 17.7	21.5
406368 2007 RT_{220}	17.7	X	157.87187	85.52735	346.79258	2.48004	0.1948089	0.27657435	2.3330719	20	5 13.6	21.3
406369 2007 RV_{233}	17.2	X	208.03907	18.40073	332.60381	12.01351	0.2289124	0.27573948	2.3377788	20	3 13.0	21.2
406370 2007 RV_{252}	17.0	X	79.39494	131.16151	359.48689	6.04184	0.0978850	0.27350325	2.3505043	20	4 17.5	19.7
406371 2007 RU_{265}	18.3	X	150.27350	169.31266	256.07796	0.95862	0.0537498	0.27939245	2.3173570	20	4 16.8	21.3
406372 2007 RQ_{267}	17.1	X	145.73020	259.26699	166.60936	6.73138	0.2221359	0.27375555	2.3490599	20	4 28.8	20.9
406373 2007 RY_{268}	18.4	X	183.66139	1.55883	41.77153	1.93157	0.1806385	0.27495234	2.3422384	20	4 30.1	22.2
406374 2007 RE_{284}	17.7	X	190.32933	143.01482	222.82996	2.45109	0.1621965	0.27619004	2.3352356	20	3 18.2	21.4
406375 2007 RH_{298}	17.6	X	167.18428	119.05692	274.36100	2.81792	0.1898867	0.27391201	2.3481653	20	4 1.4	21.2
406376 2007 RN_{302}	18.1	X	191.94309	210.58292	164.43328	1.10394	0.1930196	0.27366749	2.3495638	20	4 1.9	21.7
406377 2007 RM_{312}	15.2	X	189.90186	143.51494	255.08176	1.68298	0.2305253	0.12395540	3.9837531	20	5 2.7	21.7
406378 2007 RB_{315}	17.8	X	249.99460	118.03243	207.92198	5.40788	0.1941775	0.28411482	2.2916069	20	3 20.6	21.4
406379 2007 RP_{315}	17.2	X	174.17381	72.72551	302.05196	4.63169	0.1319173	0.27201703	2.3590582	20	3 12.0	20.7
406380 2007 RX_{316}	18.1	X	137.71051	125.69143	302.68200	2.60389	0.0845479	0.27380956	2.3487510	20	4 7.7	21.3
406381 2007 RK_{319}	17.2	X	232.03752	263.64818	8.39150	10.04399	0.0763626	0.26421677	2.4052624	20	1 6.0	20.8
406382 2007 RY_{320}	18.3	X	148.44440	2.62744	44.45470	3.16921	0.2263023	0.27046817	2.3680558	20	4 6.6	22.0
406383 2007 RP_{322}	17.8	X	205.06270	357.77557	346.17479	6.51540	0.1503626	0.27552409	2.3389970	20	3 5.3	21.3
406384 2007 RX_{323}	17.1	X	243.54559	240.33521	91.41047	7.96484	0.1408891	0.27943870	2.3171013	20	4 1.1	20.6
406385 2007 ST_{6}	17.5	X	236.35341	273.02143	94.22751	7.01091	0.2086645	0.28651094	2.2788124	20	5 2.7	21.0
406386 2007 SZ_{10}	17.7	X	149.25186	74.35418	351.98422	5.58788	0.0660786	0.27660040	2.3329254	20	4 16.6	20.8
406387 2007 SK_{12}	17.7	X	180.93141	285.19043	90.34327	6.58533	0.2560568	0.27520533	2.3408028	20	3 28.8	21.8
406388 2007 SW_{16}	17.3	X	297.30887	90.69148	167.34539	8.44044	0.0161152	0.27691618	2.3311515	20	3 11.9	20.2
406389 2007 TZ_{3}	17.7	X	96.10360	83.82331	347.21219	5.59345	0.1388602	0.26351470	2.4095327	20	2 28.3	20.6
406390 2007 TF_{9}	17.5	X	163.53312	358.12610	39.21082	2.75841	0.2137198	0.27297366	2.3535435	20	4 6.4	21.3
406391 2007 TQ_{10}	17.3	X	155.46010	204.69683	194.36792	6.21156	0.1389569	0.27073289	2.3665119	20	3 26.4	20.7
406392 2007 TB_{17}	17.5	X	124.88780	223.64396	215.72682	7.93551	0.1181656	0.26900828	2.3766157	20	4 12.1	20.6
406393 2007 TQ_{19}	17.3	X	220.96205	62.15209	302.63815	5.36888	0.1688229	0.27921012	2.3183657	20	4 12.2	20.9
406394 2007 TD_{33}	18.0	X	132.80018	9.01369	42.27821	3.00346	0.1090591	0.26632794	2.3925346	20	3 16.2	21.2
406395 2007 TS_{36}	17.7	X	240.18613	3.54880	14.07744	8.56991	0.1729012	0.28866419	2.2674660	20	5 18.7	21.1
406396 2007 TJ_{55}	18.4	X	187.45447	28.43540	10.70977	2.62713	0.2857717	0.27583214	2.3372552	20	4 27.8	22.6
406397 2007 TZ_{62}	17.7	X	98.90294	139.92764	351.07783	1.28644	0.1261388	0.27447096	2.3449763	20	5 22.1	20.5
406398 2007 TZ_{67}	17.9	X	217.78728	185.92792	175.20077	4.78878	0.2330526	0.27876355	2.3208410	20	4 5.8	21.7
406399 2007 TG_{73}	17.9	X	243.96396	315.68919	34.68713	7.92609	0.1324216	0.28079317	2.3096439	20	4 22.7	20.9
406400 2007 TC_{79}	17.6	X	217.57116	313.65881	9.64135	3.91687	0.2389158	0.27190093	2.3597296	20	2 20.2	21.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406401 2007 TU_{79}	18.0	X	186.65806	196.16365	185.58658	2.81340	0.2235064	0.27278000	2.3546572	20	4 6.2	21.9
406402 2007 TB_{94}	17.4	X	196.09423	148.25129	233.09320	3.93446	0.1737986	0.27874919	2.3209207	20	4 12.1	21.0
406403 2007 TD_{103}	18.2	X	147.52457	323.56093	104.22719	2.12932	0.1675727	0.27087403	2.3656898	20	4 28.1	21.8
406404 2007 TP_{105}	18.5	X	212.35698	105.88963	225.75361	1.59752	0.2194249	0.27256344	2.3559043	20	2 24.5	22.4
406405 2007 TJ_{109}	18.2	X	227.81604	101.75518	232.39180	4.24836	0.2497695	0.27791923	2.3255391	20	3 8.4	22.3
406406 2007 TD_{115}	17.0	X	206.10109	283.63722	81.91076	8.11072	0.1489982	0.27532489	2.3401251	20	4 6.9	20.7
406407 2007 TZ_{119}	17.2	X	208.70214	290.47400	51.02592	6.79703	0.2658155	0.27218423	2.3580920	20	3 8.2	21.4
406408 2007 TP_{124}	18.1	X	223.68459	223.57097	91.64286	2.39514	0.1942673	0.27115799	2.3640379	20	2 15.9	21.9
406409 2007 TK_{125}	17.9	X	112.44959	348.60014	71.41351	3.24560	0.1983611	0.26305063	2.4123657	20	3 16.3	21.1
406410 2007 TT_{129}	17.2	X	270.33171	277.94375	37.66140	6.28194	0.2290732	0.28089092	2.3091080	20	3 27.5	20.6
406411 2007 TZ_{137}	17.6	X	173.94940	281.92631	95.78493	2.64976	0.1493545	0.26935045	2.3746025	20	3 20.1	21.3
406412 2007 TW_{144}	17.9	X	172.82896	236.26746	166.81649	1.62849	0.1774544	0.27495582	2.3422186	20	4 20.3	21.7
406413 2007 TZ_{150}	17.8	X	210.92067	142.26705	233.71332	4.84147	0.1475565	0.27996371	2.3142035	20	4 19.9	21.4
406414 2007 TG_{153}	16.9	X	226.51227	122.62060	217.19630	7.44268	0.1455177	0.27687240	2.3313972	20	3 18.3	20.5
406415 2007 TH_{156}	17.9	X	154.88657	45.70685	346.46610	4.92879	0.2281467	0.26888234	2.3773577	20	3 23.1	21.6
406416 2007 TA_{159}	17.5	X	229.54749	119.29286	213.04629	5.99932	0.1180533	0.27612596	2.3355969	20	3 13.6	20.9
406417 2007 TP_{160}	17.1	X	208.04373	8.33227	354.34622	4.41678	0.2718574	0.27466582	2.3438671	20	3 29.1	21.3
406418 2007 TP_{163}	17.7	X	186.46472	321.78784	56.59533	2.41850	0.1966817	0.27322931	2.3520751	20	4 2.1	21.4
406419 2007 TZ_{166}	17.7	X	226.60727	319.93606	4.53640	4.82670	0.1833702	0.27414294	2.3468464	20	3 1.1	21.5
406420 2007 TF_{170}	17.5	X	227.60573	346.85054	355.29300	5.48276	0.3113787	0.27692184	2.3311197	20	3 17.5	21.7
406421 2007 TL_{175}	18.0	X	205.28362	199.97435	150.87666	1.39228	0.2044864	0.27296595	2.3535878	20	3 14.2	21.7
406422 2007 TR_{176}	17.0	X	125.16521	60.46169	34.65457	7.29478	0.0545629	0.27454988	2.3445268	20	4 26.2	19.9
406423 2007 TN_{179}	17.4	X	217.74856	252.00419	90.72292	8.17018	0.2589911	0.27440527	2.3453505	20	3 17.1	21.6
406424 2007 TJ_{182}	17.2	X	176.47499	290.45084	72.07157	7.25613	0.2598403	0.26890850	2.3772035	20	3 10.4	21.4
406425 2007 TQ_{197}	17.5	X	119.05771	289.36721	166.45268	4.36509	0.1937190	0.27797346	2.3252367	20	5 8.5	20.8
406426 2007 TY_{200}	17.6	X	250.95418	34.67147	213.60468	5.39184	0.0916675	0.25891551	2.4379830	20	—	—
406427 2007 TB_{207}	17.6	X	193.21778	27.70306	3.68947	4.08419	0.1201205	0.28003233	2.3138255	20	4 22.5	20.9
406428 2007 TH_{213}	18.2	X	159.84200	83.53173	290.32684	2.84124	0.2017817	0.26596829	2.3946909	20	3 2.8	21.9
406429 2007 TL_{218}	18.1	X	200.46966	358.70278	351.64377	0.82047	0.2046142	0.27031847	2.3689300	20	3 9.5	22.1
406430 2007 TE_{224}	18.1	X	177.15870	264.69587	155.48583	4.42503	0.1531100	0.27611699	2.3356475	20	5 16.9	21.7
406431 2007 TZ_{235}	18.1	X	91.20163	341.83466	103.83601	2.10053	0.1651303	0.26353104	2.4094330	20	3 17.3	20.9
406432 2007 TK_{240}	17.6	X	228.44723	147.99616	193.43485	5.24640	0.1430421	0.27644272	2.3338124	20	3 24.3	21.0
406433 2007 TQ_{243}	17.0	X	138.06411	5.94252	41.14658	13.94638	0.1339065	0.26789044	2.3832224	20	3 24.6	20.5
406434 2007 TQ_{245}	17.2	X	192.49156	313.19268	71.63307	6.77541	0.2086563	0.27467480	2.3438159	20	4 17.0	21.1
406435 2007 TQ_{256}	17.7	X	242.84669	216.50824	103.32276	2.34746	0.1640559	0.27501315	2.3418931	20	3 11.2	21.3
406436 2007 TS_{262}	18.3	X	148.71202	217.68159	217.99364	0.71287	0.1425015	0.27244126	2.3566086	20	5 6.9	21.8
406437 2007 TB_{283}	17.5	X	138.89721	230.13155	192.48113	4.63151	0.1231940	0.27139439	2.3626649	20	4 7.4	20.8
406438 2007 TE_{292}	18.0	X	192.39802	161.29795	172.18851	2.12100	0.2199633	0.26954501	2.3734596	20	2 11.4	21.8
406439 2007 TM_{307}	18.3	X	224.76612	262.23970	66.39621	1.75881	0.1292414	0.27325062	2.3519529	20	3 6.5	21.7
406440 2007 TK_{311}	17.8	X	190.04060	315.66089	20.30483	1.70952	0.2020824	0.26888874	2.3773200	20	2 13.1	21.6
406441 2007 TR_{322}	17.5	X	230.31541	159.98705	160.51187	4.30221	0.2634517	0.27522885	2.3406694	20	2 24.2	21.5
406442 2007 TT_{323}	16.8	X	24.60556	173.12035	343.51538	6.84544	0.0491852	0.26565400	2.3965793	20	2 25.7	19.4
406443 2007 TW_{338}	18.1	X	159.50478	314.51102	125.86384	3.90222	0.1468454	0.27927842	2.3179877	20	5 25.5	21.6
406444 2007 TB_{358}	17.7	X	121.98980	210.23564	253.36165	4.09348	0.1799580	0.27581090	2.3373752	20	5 18.9	21.1
406445 2007 TL_{367}	17.5	X	242.66963	270.63127	121.78141	6.14436	0.1486879	0.28685641	2.2769824	20	6 16.6	20.6
406446 2007 TB_{377}	18.5	X	167.23345	161.05640	247.93831	2.36617	0.1707905	0.27450879	2.3447608	20	4 21.3	22.0
406447 2007 TB_{382}	18.4	X	151.55075	258.65559	149.38049	1.53673	0.1880347	0.26926094	2.3751287	20	4 7.7	22.1
406448 2007 TD_{383}	17.5	X	94.60199	50.99860	37.02157	6.62241	0.0948887	0.26372344	2.4082610	20	3 15.9	20.4
406449 2007 TO_{385}	18.4	X	176.81173	14.93885	13.30924	7.01990	0.2227594	0.27331234	2.3515988	20	4 5.7	22.3
406450 2007 TP_{397}	16.9	X	270.24600	183.38077	106.44676	8.81234	0.1063374	0.27498568	2.3420491	20	3 10.3	20.2
406451 2007 TN_{401}	15.9	X	208.97710	34.31544	10.07202	2.71108	0.2132133	0.12568509	3.9471189	20	5 23.7	22.3
406452 2007 TE_{428}	18.0	X	173.71552	152.53560	203.02647	7.43489	0.1348132	0.26417268	2.4055300	20	2 16.8	21.7
406453 2007 TE_{430}	17.3	X	195.97304	286.05638	79.71103	6.20881	0.1212761	0.27097952	2.3650758	20	3 27.8	20.9
406454 2007 TG_{430}	17.6	X	93.67361	210.24129	257.46676	3.53085	0.0983129	0.26536618	2.3983119	20	4 6.6	20.6
406455 2007 TD_{433}	17.8	X	125.65509	282.66614	157.10398	2.69928	0.1714639	0.26816460	2.3815978	20	4 21.7	21.1
406456 2007 TP_{434}	18.0	X	241.18583	260.12303	136.01525	7.13964	0.1926793	0.28720470	2.2751412	20	6 15.1	21.3
406457 2007 TO_{435}	17.7	X	194.52736	275.67353	100.45359	4.81325	0.2405250	0.27438387	2.3454724	20	4 7.7	21.7
406458 2007 TS_{435}	17.8	X	210.44423	51.58036	321.00828	1.43889	0.2023891	0.27546747	2.3393175	20	4 13.7	21.5
406459 2007 TH_{437}	15.7	X	191.39958	254.88535	167.21252	3.10001	0.2085778	0.12614845	3.9374474	20	5 31.5	22.1
406460 2007 TY_{446}	17.2	X	246.13451	236.82033	69.74876	10.70875	0.2491917	0.27531018	2.3402084	20	2 25.3	21.3
406461 2007 UD_{15}	17.2	X	271.24134	180.48454	20.70804	9.28712	0.1685910	0.25592513	2.4569374	20	—	—
406462 2007 UC_{18}	17.6	X	231.42787	221.56080	125.31911	3.46031	0.2357537	0.27974839	2.3153909	20	3 30.9	21.5
406463 2007 UM_{23}	17.5	X	305.95706	170.19588	58.00232	7.37811	0.0719982	0.26390927	2.4071304	20	2 7.9	20.6
406464 2007 UY_{23}	17.8	X	107.88618	334.15156	132.13411	2.67512	0.1647098	0.26876473	2.3780512	20	5 6.2	21.0
406465 2007 UO_{29}	17.8	X	112.42018	291.29666	160.02603	1.28596	0.1862506	0.26939747	2.3743261	20	4 23.5	20.9
406466 2007 UW_{44}	17.8	X	94.61604	172.65239	256.21788	0.64609	0.1206382	0.26242407	2.4162040	20	2 19.6	20.7
406467 2007 UA_{49}	17.7	X	156.59653	245.03768	171.85418	3.79604	0.1905328	0.27084940	2.3658333	20	4 24.4	21.3
406468 2007 US_{54}	18.1	X	180.95775	331.52180	43.67683	1.99808	0.2022005	0.27031347	2.3689592	20	3 24.5	21.8
406469 2007 UL_{56}	17.8	X	201.13039	71.05034	232.54209	0.71060	0.1901606	0.26478511	2.4018193	20	1 13.7	21.6
406470 2007 UB_{59}	18.1	X	158.12160	344.30243	36.85537	3.18984	0.1988509	0.26648185	2.3916133	20	3 12.6	21.8
406471 2007 UE_{61}	17.9	X	161.83501	177.17658	202.65167	0.82893	0.2000153	0.26623630	2.3930836	20	3 12.9	21.5
406472 2007 UT_{71}	17.3	X	104.59074	257.24477	169.31120	6.66727	0.1326981	0.26101337	2.4249021	20	3 3.4	20.1
406473 2007 UU_{77}	18.3	X	193.93212	37.69911	6.73477	3.04402	0.2207617	0.27912940	2.3188127	20	5 9.4	22.2
406474 2007 UU_{82}	18.1	X	259.42979	254.53543	26.56136	2.34828	0.2339473	0.26980136	2.3719560	20	2 2.7	21.8
406475 2007 UP_{84}	18.3	X	173.72695	151.45710	210.61604	0.28531	0.1492498	0.26529014	2.3987702	20	2 28.0	22.0
406476 2007 UA_{86}	18.2	X	147.81368	233.28036	190.87336	2.10462	0.1940283	0.26973035	2.3723723	20	4 25.0	21.8
406477 2007 UV_{90}	18.2	X	82.14819	63.74067	37.52129	1.56764	0.1610491	0.26255323	2.4154116	20	3 24.4	20.8
406478 2007 UZ_{90}	18.6	X	195.04252	66.64097	263.51370	0.66364	0.2007334	0.26631109	2.3926355	20	2 9.6	22.6
406479 2007 UL_{94}	17.7	X	211.68529	61.99791	240.13278	5.32332	0.0701446	0.26109869	2.4243739	20	1 19.4	21.2
406480 2007 UN_{96}	17.8	X	215.52182	125.31784	227.88805	1.45586	0.2338386	0.27439034	2.3454355	20	3 24.1	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406481 2007 UL_{97}	18.3	X	206.37745	294.77958	42.60676	3.15127	0.2110334	0.26998932	2.3708550	20	2 29.0	22.3
406482 2007 UG_{99}	17.7	X	218.84403	271.00354	59.91707	5.81392	0.1307955	0.26795158	2.3828599	20	3 6.1	21.3
406483 2007 US_{99}	17.2	X	120.83903	34.13120	49.16195	11.31044	0.1780841	0.26603746	2.3942759	20	4 22.9	20.5
406484 2007 UT_{106}	18.2	X	79.04061	188.53356	241.74983	3.18711	0.1626713	0.25583961	2.4574849	20	2 4.2	20.8
406485 2007 UP_{122}	17.6	X	23.68423	65.13670	88.50033	2.53107	0.1153944	0.26023419	2.4297401	20	2 20.9	20.0
406486 2007 UO_{131}	17.6	X	170.87913	302.05540	124.48561	6.62721	0.2455635	0.27565273	2.3382693	20	5 21.5	21.6
406487 2007 UC_{139}	16.6	X	9.98559	176.34629	322.28981	6.07689	0.1690339	0.25295111	2.4761578	20	—	—
406488 2007 VO	17.6	X	132.57178	29.68378	1.82110	5.41353	0.1825008	0.26302134	2.4125448	20	2 28.3	21.1
406489 2007 VF_{7}	17.0	X	179.50625	127.65578	253.26333	4.11302	0.2350188	0.26991341	2.3712995	20	3 28.6	21.1
406490 2007 VT_{11}	17.9	X	174.02327	290.71910	88.93855	3.34125	0.2378075	0.26891032	2.3771928	20	3 26.5	21.9
406491 2007 VS_{29}	17.0	X	16.83181	152.85778	36.07725	7.71497	0.0422636	0.27393520	2.3480328	20	3 31.4	19.7
406492 2007 VV_{29}	17.7	X	229.16861	261.08413	93.38841	3.48132	0.2419697	0.27734111	2.3287697	20	4 7.5	21.6
406493 2007 VZ_{34}	17.5	X	124.23803	238.46187	210.35565	6.97258	0.0755812	0.26790534	2.3831340	20	4 19.4	20.7
406494 2007 VD_{47}	17.7	X	233.30995	293.00553	17.45799	6.84303	0.1239889	0.26802612	2.3824180	20	2 23.5	21.2
406495 2007 VX_{49}	17.6	X	268.98873	311.54761	23.14701	7.57362	0.1673740	0.28176579	2.3043257	20	4 25.1	20.6
406496 2007 VR_{51}	17.1	X	78.65715	187.95401	271.74077	4.10299	0.1555405	0.26041756	2.4285994	20	3 13.0	19.8
406497 2007 VO_{68}	17.6	X	25.24203	94.78646	51.50781	1.69129	0.1325621	0.25896590	2.4376667	20	2 12.7	19.7
406498 2007 VE_{75}	17.9	X	86.85579	292.65176	186.52620	1.14105	0.1486314	0.26670135	2.3903009	20	4 23.1	20.6
406499 2007 VX_{84}	17.5	X	171.24193	343.57952	58.25599	7.23113	0.2406500	0.27251116	2.3562056	20	4 20.7	21.6
406500 2007 VY_{100}	17.8	X	76.07861	186.78656	292.62197	2.29879	0.1107361	0.26207557	2.4183455	20	3 30.7	20.7
406501 2007 VW_{102}	18.4	X	253.13257	163.85719	141.66851	1.87971	0.1914297	0.27688827	2.3313082	20	2 28.9	22.0
406502 2007 VK_{103}	17.1	X	72.56747	19.83969	50.92303	6.53909	0.1054819	0.25857934	2.4400955	20	1 19.4	19.8
406503 2007 VL_{115}	18.8	X	141.28193	271.73795	143.03071	3.05059	0.1740891	0.26565753	2.3965581	20	4 6.1	22.3
406504 2007 VE_{121}	17.6	X	279.98268	263.49085	10.56249	6.18020	0.0476014	0.26715832	2.3875744	20	3 7.9	20.6
406505 2007 VA_{134}	17.8	X	197.97777	44.46390	280.60898	2.18506	0.1924158	0.26618411	2.3933964	20	2 5.5	21.7
406506 2007 VM_{141}	18.2	X	142.70702	151.49118	260.68476	1.38778	0.2071004	0.26699270	2.3885617	20	4 4.9	21.8
406507 2007 VN_{148}	17.7	X	199.61050	316.15748	75.55653	3.54647	0.1922805	0.27605712	2.3359852	20	4 30.3	21.5
406508 2007 VR_{148}	17.7	X	177.44738	286.37438	82.36642	2.27290	0.1922081	0.26741359	2.3860547	20	3 13.8	21.4
406509 2007 VT_{150}	17.9	X	203.40731	246.50685	157.24075	1.99726	0.1273856	0.27736116	2.3286575	20	5 21.3	21.2
406510 2007 VG_{151}	17.8	X	159.82067	106.49187	273.68507	1.17193	0.1881745	0.26619735	2.3933170	20	3 10.3	21.6
406511 2007 VO_{151}	16.1	X	57.67999	13.48138	104.36335	17.86321	0.1480079	0.24479561	2.5308533	20	3 15.7	19.2
406512 2007 VD_{154}	18.2	X	198.96799	159.60513	208.76689	5.62281	0.2290382	0.27259463	2.3557246	20	3 29.4	22.3
406513 2007 VX_{180}	17.9	X	248.93675	296.17820	62.75357	5.20160	0.1652031	0.28254923	2.3000642	20	5 6.8	21.1
406514 2007 VR_{192}	17.0	X	13.96192	25.98897	87.87806	7.24175	0.1754863	0.24204379	2.5499994	20	—	—
406515 2007 VO_{197}	17.7	X	270.75314	35.03969	252.60112	4.57039	0.1429622	0.27341933	2.3509853	20	2 26.5	21.1
406516 2007 VM_{206}	17.1	X	219.47684	72.77605	281.07971	6.23417	0.1299905	0.27703802	2.3304679	20	3 28.8	20.7
406517 2007 VB_{211}	17.6	X	136.91149	88.03104	335.79677	2.80328	0.1945941	0.26738787	2.3862077	20	4 12.8	21.1
406518 2007 VQ_{211}	17.4	X	244.34444	183.27894	36.36283	8.43966	0.0534890	0.24583857	2.5236902	20	—	—
406519 2007 VX_{212}	17.6	X	135.96802	228.96042	202.92351	6.67212	0.0858838	0.26816634	2.3815875	20	4 12.3	20.6
406520 2007 VM_{224}	15.0	X	192.89171	57.19140	26.21816	13.08896	0.2316758	0.12152504	4.0366913	20	6 24.8	21.8
406521 2007 VC_{225}	18.4	X	154.10908	276.03528	143.75841	1.92595	0.1725939	0.27232000	2.3573082	20	4 24.4	21.9
406522 2007 VR_{226}	17.4	X	188.58324	351.96153	355.74798	5.59123	0.2059865	0.26811405	2.3818971	20	2 26.7	21.3
406523 2007 VO_{229}	17.2	X	225.35630	262.40631	47.96384	6.94769	0.1612351	0.26570426	2.3962771	20	2 15.0	21.0
406524 2007 VK_{230}	17.7	X	66.83162	78.30971	41.61125	1.92457	0.1377617	0.26150181	2.4218816	20	3 22.9	20.1
406525 2007 VQ_{253}	17.6	X	146.99482	277.40619	145.59216	7.20915	0.2741594	0.26829905	2.3808021	20	4 30.3	21.7
406526 2007 VG_{255}	17.9	X	269.83687	237.72555	40.93624	2.47329	0.1597888	0.27012390	2.3700675	20	2 15.9	21.3
406527 2007 VH_{260}	17.8	X	163.01631	256.10590	164.36014	5.13916	0.2249762	0.27277652	2.3546773	20	5 6.6	21.7
406528 2007 VV_{273}	18.2	X	162.59343	273.06747	133.00622	3.97275	0.1776954	0.27004844	2.3705090	20	4 16.2	21.9
406529 2007 VY_{274}	17.3	X	252.50991	177.92498	128.34682	7.20156	0.1169134	0.26937864	2.3744368	20	3 9.2	20.7
406530 2007 VS_{290}	16.8	X	337.25203	259.49872	249.10592	12.95435	0.1206648	0.24517241	2.5282595	20	—	—
406531 2007 VD_{308}	17.5	X	81.36226	175.91379	272.96965	6.67779	0.1192437	0.25345490	2.4728755	20	2 25.2	20.5
406532 2007 VR_{308}	18.6	X	142.65104	217.45565	187.95802	0.65978	0.1724890	0.26505113	2.4002120	20	3 25.0	22.1
406533 2007 VL_{315}	17.5	X	180.54111	86.47818	299.59350	1.64132	0.1948259	0.27081950	2.3660074	20	4 4.9	21.3
406534 2007 VQ_{316}	17.0	X	89.99190	319.40436	66.34464	6.90573	0.0578171	0.24719794	2.5144296	20	—	—
406535 2007 VN_{320}	17.3	X	206.10978	278.78068	79.84670	4.71417	0.2233991	0.27230489	2.3573954	20	3 26.5	21.3
406536 2007 VD_{321}	17.6	X	85.71294	347.17657	76.46548	5.70880	0.1674289	0.25469471	2.4648440	20	2 10.2	20.4
406537 2007 VP_{325}	18.2	X	135.12583	63.54441	355.05871	3.83833	0.1048778	0.26528784	2.3987841	20	3 26.4	21.4
406538 2007 VG_{327}	18.4	X	160.39067	144.17713	264.20061	5.00713	0.2457420	0.26832533	2.3806466	20	4 16.8	22.5
406539 2007 VF_{332}	17.2	X	42.97847	155.99953	297.62252	5.04553	0.2036215	0.24223233	2.5486761	20	1 7.0	19.2
406540 2007 VU_{332}	16.7	X	81.29537	180.81187	282.24595	8.20668	0.0370721	0.25397135	2.4695220	20	3 2.4	19.9
406541 2007 VK_{333}	17.7	X	147.12415	313.34821	126.60548	5.43360	0.1671432	0.27058445	2.3673774	20	5 14.6	21.3
406542 2007 WJ_{5}	17.9	X	169.92605	307.06928	64.26209	3.38344	0.2118905	0.26622802	2.3931332	20	3 12.0	21.7
406543 2007 WM_{8}	17.4	X	222.82845	10.85797	21.66666	3.82702	0.1864936	0.27979033	2.3151595	20	5 21.3	20.8
406544 2007 WT_{9}	18.5	X	154.06779	35.95201	40.65671	2.93467	0.1777234	0.27484985	2.3428207	20	5 15.4	22.1
406545 2007 WB_{15}	17.4	X	192.93658	198.64793	187.95531	1.90574	0.2177744	0.27315812	2.3524838	20	4 17.3	21.3
406546 2007 WN_{32}	17.8	X	164.85239	103.74518	300.07075	3.51278	0.1352380	0.26895311	2.3769406	20	4 9.6	21.5
406547 2007 WQ_{37}	17.8	X	135.26751	113.38633	296.58883	3.71235	0.2263867	0.26368238	2.4085111	20	3 26.8	21.5
406548 2007 WF_{44}	17.0	X	50.49838	294.78274	113.54657	10.05294	0.1561729	0.23556242	2.5965621	20	—	—
406549 2007 WT_{57}	16.3	X	308.80191	194.45452	327.25558	10.27625	0.1391689	0.22622948	2.6674928	20	—	—
406550 2007 XX_{23}	17.0	X	144.92836	332.79706	92.34865	9.47448	0.1501502	0.26719710	2.3873434	20	4 24.2	20.7
406551 2007 XF_{54}	17.8	X	161.40764	279.05444	119.39787	2.29188	0.1914515	0.26360511	2.4089817	20	4 5.8	21.6
406552 2007 XN_{58}	17.5	X	108.22816	28.84739	38.92895	4.99345	0.1572446	0.25868108	2.4394557	20	3 16.3	20.6
406553 2007 YV_{4}	17.5	X	170.91636	23.49591	14.88160	3.43151	0.2252996	0.26980894	2.3719116	20	4 13.6	21.3
406554 2007 YY_{5}	17.5	X	38.32731	174.74579	281.38471	5.78125	0.0660220	0.25143850	2.4860787	20	—	—
406555 2007 YN_{15}	17.3	X	195.10444	330.73039	297.53511	3.55969	0.0316085	0.24196351	2.5505634	20	—	—
406556 2007 YE_{27}	17.6	X	6.23045	169.39095	310.75266	13.40785	0.1863073	0.23990274	2.5651489	20	—	—
406557 2007 YO_{42}	17.6	X	84.63855	17.43206	65.54377	1.66491	0.1951231	0.25252238	2.4789597	20	3 9.9	20.5
406558 2007 YH_{47}	17.3	X	286.74914	61.86882	110.96829	3.67059	0.1102596	0.23109365	2.6299291	20	—	—
406559 2007 YX_{50}	16.0	X	140.07198	146.36828	109.51614	14.11704	0.1292593	0.21996820	2.7178748	20	12 11.3	20.4
406560 2007 YC_{51}	17.5	X	187.38796	253.65276	108.85906	16.28947	0.2471859	0.26211865	2.4180805	20	3 21.9	22.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406561 2007 YB_{56}	16.9	X	77.67402	154.75195	298.74985	4.41552	0.1321663	0.25332140	2.4737443	20	2 29.6	19.8
406562 2007 YQ_{61}	16.7	X	208.17082	242.72906	185.09884	21.30914	0.2971419	0.28068926	2.3102139	20	6 17.9	21.2
406563 2007 YO_{64}	16.7	X	286.26867	219.20996	333.78814	8.16290	0.0646915	0.23688380	2.5868970	20	—	—
406564 2007 YK_{65}	17.1	X	153.74911	45.20730	327.70802	6.40257	0.1280772	0.25471236	2.4647301	20	2 20.9	20.8
406565 2007 YM_{66}	18.0	X	66.32207	77.98855	0.81737	1.74567	0.1260748	0.24592789	2.5230791	20	1 24.4	20.5
406566 2007 YX_{66}	17.4	X	85.65263	293.86112	116.71800	2.77959	0.1013891	0.24304514	2.5429906	20	1 13.4	20.2
406567 2007 YP_{68}	16.8	X	47.73612	282.40503	136.85396	15.34399	0.0991566	0.23790831	2.5794650	20	—	—
406568 2007 YM_{73}	17.7	X	300.19547	24.95866	125.96717	2.18238	0.0738331	0.23002428	2.6380737	20	—	—
406569 2007 YR_{73}	17.5	X	207.65141	214.50060	150.39126	1.82255	0.1932448	0.26258720	2.4152033	20	4 3.7	21.3
406570 2007 YN_{74}	16.4	X	248.48977	353.77133	166.67046	14.34990	0.0507588	0.21741521	2.7391098	20	12 19.8	20.3
406571 2008 AH_{7}	15.1	X	251.74716	104.85102	263.49147	10.63071	0.2694273	0.12535323	3.9540821	20	5 12.2	21.3
406572 2008 AQ_{15}	17.5	X	2.18196	320.59430	130.52599	14.92174	0.0394063	0.23326118	2.6136117	20	—	—
406573 2008 AU_{16}	16.8	X	335.73066	356.70974	129.49084	13.75457	0.1393654	0.23376657	2.6098434	20	—	—
406574 2008 AV_{22}	16.7	X	345.18863	348.67978	115.07909	7.04639	0.0253719	0.22852191	2.6496234	20	—	—
406575 2008 AG_{24}	17.3	X	255.93694	204.28671	327.15977	10.24125	0.0251154	0.22356893	2.6886137	20	—	—
406576 2008 AU_{36}	17.2	X	106.38994	311.31278	142.50311	10.54031	0.2011566	0.25859529	2.4399952	20	4 26.0	20.8
406577 2008 AJ_{39}	17.0	X	349.25718	350.45600	117.21355	6.84974	0.0597300	0.23212700	2.6221183	20	—	—
406578 2008 AD_{48}	17.6	X	132.59177	288.92865	106.05079	2.32169	0.1859666	0.25650086	2.4532596	20	3 4.5	21.1
406579 2008 AA_{75}	16.8	X	348.84533	347.16809	125.72090	9.60498	0.0870177	0.23405602	2.6076913	20	—	—
406580 2008 AG_{78}	16.6	X	42.55896	85.17753	305.98255	27.91963	0.0393394	0.22919504	2.6444330	20	—	—
406581 2008 AA_{79}	17.2	X	180.42937	257.26843	140.33246	5.57561	0.1146733	0.26289038	2.4133459	20	4 21.4	20.8
406582 2008 AK_{81}	17.1	X	243.46423	331.44659	220.27417	1.55141	0.1569237	0.22313002	2.6921384	20	—	—
406583 2008 AE_{85}	17.6	X	138.55028	74.72150	319.92818	6.33148	0.1643392	0.25394939	2.4696644	20	3 5.6	21.2
406584 2008 AK_{90}	17.2	X	336.08327	2.93481	132.88554	3.88471	0.0808291	0.23742644	2.5829540	20	—	—
406585 2008 AP_{97}	17.2	X	322.71350	82.99551	87.79372	5.13272	0.0223874	0.24064325	2.5598838	20	—	—
406586 2008 AL_{98}	18.0	X	155.28277	11.32356	39.08137	3.19491	0.2287975	0.26230909	2.4169101	20	4 16.7	22.0
406587 2008 AX_{103}	17.9	X	114.57402	90.26169	335.77616	1.48699	0.1766727	0.25663188	2.4524245	20	3 22.1	21.0
406588 2008 BZ_{14}	17.0	X	268.31225	126.54267	89.39912	3.86745	0.1767616	0.23487072	2.6016575	20	—	—
406589 2008 BJ_{17}	17.5	X	131.57715	320.54291	101.70468	3.23982	0.1936809	0.25878907	2.4387770	20	4 8.6	21.2
406590 2008 BC_{29}	16.8	X	153.94798	347.47997	309.63987	12.88729	0.1705391	0.22914725	2.6448007	20	—	—
406591 2008 BG_{29}	16.8	X	71.14898	47.39773	307.13369	5.19452	0.0539064	0.22587837	2.6702563	20	—	—
406592 2008 BH_{30}	17.5	X	359.85601	342.60356	139.82755	11.99521	0.1197287	0.23695531	2.5863766	20	—	—
406593 2008 BQ_{36}	16.8	X	86.82366	217.18119	154.51992	12.09752	0.0127189	0.22654461	2.6650185	20	—	—
406594 2008 BA_{44}	16.7	X	15.39596	47.91689	35.52632	5.19569	0.1303969	0.23631250	2.5910647	20	—	—
406595 2008 BO_{46}	17.0	X	13.71497	136.34178	343.00968	11.61401	0.1341569	0.23548603	2.5971236	20	—	—
406596 2008 CW_{2}	16.7	X	221.79642	17.93095	150.73144	17.97159	0.1837093	0.21084505	2.7957207	20	11 12.8	21.2
406597 2008 CT_{3}	17.1	X	275.73601	214.58390	355.75312	4.23077	0.0853709	0.23270767	2.6177545	20	—	—
406598 2008 CL_{9}	16.8	X	346.07616	247.70449	138.70568	7.06442	0.0806661	0.21322671	2.7748636	20	11 16.5	20.3
406599 2008 CU_{18}	17.0	X	341.72159	348.76541	141.02032	7.43142	0.1562099	0.23147134	2.6270675	20	—	—
406600 2008 CF_{24}	17.3	X	338.61692	325.33148	144.07027	13.76116	0.2144929	0.22932087	2.6434656	20	—	—
406601 2008 CF_{26}	17.1	X	127.94689	111.36308	302.98147	6.03028	0.0787055	0.25684002	2.4510994	20	3 7.4	20.4
406602 2008 CP_{37}	17.1	X	23.06677	269.52651	155.00424	22.07361	0.0710582	0.22730270	2.6590897	20	—	—
406603 2008 CM_{44}	17.1	X	303.78178	347.93682	134.39471	6.57939	0.0915592	0.22104431	2.7090467	20	—	—
406604 2008 CT_{44}	17.2	X	23.30124	31.95055	55.18576	3.11625	0.1796230	0.23368503	2.6104505	20	—	—
406605 2008 CB_{47}	16.7	X	61.85466	343.45240	142.13678	12.87841	0.1993384	0.25365367	2.4715834	20	4 6.8	19.4
406606 2008 CM_{56}	17.3	X	178.15569	60.48176	150.03514	10.22038	0.1326774	0.21332383	2.7740214	20	11 22.7	21.8
406607 2008 CD_{57}	17.1	X	200.83225	320.78528	282.90253	3.81079	0.0334721	0.22717275	2.6601037	20	—	—
406608 2008 CJ_{58}	17.2	X	151.84155	316.73197	135.94252	7.68951	0.1701877	0.26434978	2.4044555	20	6 4.6	21.0
406609 2008 CY_{59}	17.6	X	344.76661	333.45126	164.02129	10.35654	0.1237864	0.23443111	2.6049090	20	—	—
406610 2008 CJ_{62}	17.6	X	45.72960	225.09931	162.44129	6.05576	0.0460706	0.22628430	2.6670620	20	—	—
406611 2008 CO_{65}	16.6	X	74.86149	247.96349	146.04756	22.35529	0.0223766	0.23360436	2.6110514	20	—	—
406612 2008 CP_{67}	17.1	X	168.08029	177.58307	97.38595	7.21393	0.1051221	0.22231773	2.6986920	20	—	—
406613 2008 CW_{70}	16.6	X	356.64262	79.65751	42.88175	10.34684	0.1852798	0.23372317	2.6101665	20	—	—
406614 2008 CL_{89}	16.7	X	20.44735	289.06058	151.29276	14.08657	0.1376358	0.23038326	2.6353326	20	—	—
406615 2008 CD_{92}	16.7	X	183.73966	70.91284	144.00154	13.08156	0.1055919	0.21229294	2.7829945	20	12 4.9	21.2
406616 2008 CX_{95}	16.8	X	294.78305	242.57362	290.78919	7.06626	0.0646141	0.23662562	2.5887783	20	—	—
406617 2008 CK_{100}	17.1	X	268.52738	42.50683	145.34114	8.69568	0.1063597	0.22698438	2.6615751	20	—	—
406618 2008 CD_{112}	17.1	X	156.27431	146.32829	117.60785	6.02258	0.0743013	0.22008290	2.7169304	20	—	—
406619 2008 CM_{112}	17.0	X	274.02827	37.05875	132.29195	14.49338	0.1192390	0.22574348	2.6713199	20	—	—
406620 2008 CU_{121}	17.2	X	306.47174	10.32235	153.59968	12.29175	0.1410666	0.23264911	2.6181938	20	—	—
406621 2008 CB_{127}	16.9	X	287.37872	10.56141	153.61650	10.67037	0.1027269	0.22728161	2.6592542	20	—	—
406622 2008 CX_{131}	16.9	X	347.25091	1.80762	132.37954	4.72678	0.1270937	0.23449968	2.6044011	20	—	—
406623 2008 CT_{133}	17.1	X	64.97823	94.37145	338.39927	16.15452	0.0886755	0.23887490	2.5725019	20	1 15.4	20.3
406624 2008 CC_{134}	17.2	X	226.94281	25.23813	158.46021	7.17776	0.2240329	0.21701068	2.7425127	20	11 28.9	21.3
406625 2008 CK_{135}	17.3	X	52.62037	244.44984	159.16235	4.68631	0.0422159	0.23114288	2.6295556	20	—	—
406626 2008 CC_{141}	16.7	X	326.35307	169.84405	325.01389	14.13342	0.1856746	0.22960063	2.6413178	20	—	—
406627 2008 CY_{141}	16.8	X	18.57244	302.13896	165.03423	13.42016	0.1568078	0.23572593	2.5953612	20	—	—
406628 2008 CN_{154}	17.3	X	61.42585	274.75511	118.11957	9.79743	0.1223626	0.23024907	2.6363564	20	—	—
406629 2008 CP_{162}	17.2	X	70.50806	243.04216	149.93998	7.56468	0.0330106	0.23161728	2.6259638	20	—	—
406630 2008 CV_{170}	17.3	X	126.15363	81.09891	219.31284	4.22459	0.0949523	0.22046089	2.7138240	20	—	—
406631 2008 CE_{178}	16.2	X	190.67471	113.06032	113.17765	17.32906	0.2251927	0.21536564	2.7564605	20	12 15.6	20.9
406632 2008 CV_{180}	16.3	X	192.16048	326.47997	225.00075	6.47579	0.0931714	0.21015752	2.8018148	20	11 13.8	20.5
406633 2008 CM_{186}	17.9	X	224.20191	237.44496	284.37810	18.27860	0.1057677	0.37456164	1.9059896	20	12 25.4	19.4
406634 2008 CN_{188}	16.5	X	258.62177	272.98840	260.54965	10.43182	0.1310952	0.22380016	2.6867615	20	—	—
406635 2008 CT_{195}	16.7	X	133.77639	136.68160	172.49128	11.26282	0.0750894	0.22267684	2.6957897	20	—	—
406636 2008 CX_{195}	17.1	X	44.39777	92.84757	0.70325	14.65175	0.0590541	0.23679581	2.5875378	20	1 8.9	20.5
406637 2008 CX_{199}	17.3	X	0.97874	281.52126	176.67539	6.01803	0.0746702	0.22719699	2.6599145	20	—	—
406638 2008 CQ_{201}	17.0	X	248.80633	250.12548	331.78692	6.48651	0.0398521	0.22952872	2.6418695	20	—	—
406639 2008 CU_{202}	17.0	X	182.41533	113.02048	139.90559	5.67750	0.0633998	0.22013818	2.7164755	20	—	—
406640 2008 CQ_{207}	17.3	X	137.00323	325.38139	357.01165	4.94569	0.0549962	0.22861952	2.6488691	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406641 2008 CY_{212}	16.5	X	127.77154	344.25662	353.68799	11.71236	0.0728705	0.23141308	2.6275084	20	—	—
406642 2008 DB_{1}	18.0	X	64.60260	105.31822	0.69541	1.76822	0.1931445	0.25056305	2.4918661	20	3 8.4	20.4
406643 2008 DX_{6}	16.4	X	32.08445	296.39635	140.45005	22.43207	0.0401242	0.23487724	2.6016094	20	—	—
406644 2008 DP_{19}	16.7	X	234.46279	226.11579	350.40857	11.08710	0.1063098	0.22054021	2.7131733	20	—	—
406645 2008 DB_{20}	16.6	X	129.46953	173.31446	180.73578	13.02980	0.0315370	0.23179367	2.6246315	20	—	—
406646 2008 DX_{24}	16.5	X	267.70773	218.82837	352.84465	16.60777	0.0891250	0.23075578	2.6324956	20	—	—
406647 2008 DO_{26}	16.4	X	254.17632	34.06000	174.90630	17.38570	0.1284988	0.22521902	2.6754654	20	—	—
406648 2008 DP_{39}	16.9	X	331.72010	152.35480	352.99259	11.68888	0.1368640	0.22969378	2.6406037	20	—	—
406649 2008 DV_{39}	16.5	X	255.52474	51.19392	177.97990	15.58819	0.0949579	0.22779525	2.6552552	20	—	—
406650 2008 DO_{56}	15.9	X	39.69576	259.58660	161.76098	22.09396	0.0628614	0.23067244	2.6331296	20	—	—
406651 2008 DE_{59}	18.6	X	25.06669	86.07408	334.42785	17.47507	0.0708336	0.38980471	1.8559716	20	—	—
406652 2008 DH_{59}	18.1	X	34.04220	227.02005	166.40858	23.21127	0.1352332	0.38342348	1.8765072	20	—	—
406653 2008 DG_{67}	17.0	X	342.92162	151.56527	345.23940	13.50597	0.1879450	0.23125920	2.6286738	20	—	—
406654 2008 DR_{72}	17.4	X	42.30887	104.45040	341.76375	6.84429	0.1166465	0.23694999	2.5864153	20	—	—
406655 2008 DX_{74}	16.9	X	75.27431	234.06195	129.38994	6.83007	0.0422297	0.22361658	2.6882318	20	—	—
406656 2008 DZ_{77}	17.1	X	272.22140	155.49615	11.32869	5.29802	0.0512645	0.22269658	2.6956305	20	—	—
406657 2008 DF_{78}	17.2	X	52.81541	256.50099	116.80621	6.70447	0.0872717	0.22127209	2.7071872	20	—	—
406658 2008 DD_{89}	17.1	X	31.22793	248.29797	223.41995	8.20224	0.1205922	0.23910814	2.5708287	20	1 7.4	19.9
406659 2008 EE_{16}	16.8	X	70.36454	223.98251	186.39246	13.38965	0.1713661	0.23054574	2.6340943	20	—	—
406660 2008 EQ_{17}	15.8	X	128.78903	272.64955	350.48551	14.35112	0.1309489	0.20312637	2.8661033	20	12 2.2	20.7
406661 2008 EB_{20}	17.0	X	351.01172	273.65857	187.45071	12.71287	0.1332684	0.22562731	2.6722368	20	—	—
406662 2008 EG_{22}	17.2	X	341.59021	141.36275	9.50182	13.41672	0.1933967	0.23586054	2.5943736	20	—	—
406663 2008 EC_{26}	16.8	X	66.61510	215.29012	151.63509	6.37881	0.0299171	0.22566633	2.6719287	20	—	—
406664 2008 EA_{46}	16.9	X	24.21467	161.21384	295.23053	5.07981	0.1418009	0.23053572	2.6341706	20	—	—
406665 2008 ES_{47}	16.5	X	171.26437	219.27028	34.39170	12.77709	0.0642089	0.21162568	2.7888414	20	—	—
406666 2008 EZ_{50}	16.2	X	99.40924	244.58338	354.87189	16.21551	0.1727494	0.19280044	2.9675454	20	10 7.9	21.1
406667 2008 EQ_{56}	17.1	X	229.38985	37.33339	144.40786	3.12618	0.1326257	0.21381695	2.7697547	20	12 9.4	20.9
406668 2008 EL_{57}	16.9	X	349.23747	323.23186	161.25568	13.75588	0.2056299	0.23064688	2.6333242	20	—	—
406669 2008 EM_{60}	16.8	X	288.47426	167.07372	349.45502	12.79734	0.0320211	0.22161301	2.7044101	20	—	—
406670 2008 EZ_{60}	17.7	X	85.86163	244.57360	191.95127	12.71352	0.1689351	0.24171019	2.5523452	20	2 25.2	20.9
406671 2008 EK_{75}	17.0	X	207.66723	203.48470	29.24580	5.78024	0.0449306	0.21835718	2.7312265	20	—	—
406672 2008 ET_{87}	16.1	X	213.70429	160.26244	63.48377	9.68780	0.1390169	0.21478376	2.7614367	20	—	—
406673 2008 ES_{90}	17.1	X	16.40364	331.37764	151.39804	6.96046	0.1007573	0.23727914	2.5840228	20	—	—
406674 2008 EY_{95}	16.7	X	27.11888	15.01972	22.58346	12.39702	0.1306708	0.22168531	2.7038221	20	—	—
406675 2008 EG_{99}	16.3	X	303.71616	200.93175	314.70989	12.65778	0.1757746	0.22665500	2.6641531	20	—	—
406676 2008 EJ_{102}	16.2	X	236.38851	141.14199	14.45463	10.40448	0.0443922	0.21232940	2.7826759	20	11 24.7	20.2
406677 2008 EO_{110}	17.0	X	171.11832	106.82123	149.26355	11.69082	0.1576717	0.21911514	2.7249244	20	—	—
406678 2008 EB_{111}	17.0	X	161.16443	206.54332	51.63339	6.72350	0.1582414	0.21208696	2.7847961	20	12 29.2	21.5
406679 2008 EJ_{113}	17.2	X	30.65751	162.76932	315.29605	9.93805	0.2140087	0.24122044	2.5557987	20	1 16.9	19.2
406680 2008 ES_{113}	17.2	X	103.20082	48.34277	343.22679	10.74694	0.1405974	0.23642634	2.5902329	20	1 23.5	20.6
406681 2008 ES_{115}	17.3	X	322.70337	76.61400	5.34371	5.12287	0.0607539	0.21297368	2.7770611	20	12 20.4	20.8
406682 2008 EJ_{118}	18.6	X	16.56460	267.06340	162.58354	23.33962	0.0875731	0.38885716	1.8589854	20	—	—
406683 2008 ES_{125}	16.9	X	52.52444	114.88719	322.68521	12.04761	0.2207455	0.23965573	2.5669112	20	1 9.2	19.2
406684 2008 EL_{140}	17.9	X	26.91071	104.64524	8.05743	3.07523	0.1781928	0.23928345	2.5695729	20	—	—
406685 2008 EP_{147}	17.6	X	341.71534	322.14183	164.59569	2.21473	0.1470458	0.22892288	2.6465285	20	—	—
406686 2008 EN_{150}	17.4	X	231.13155	214.68564	324.37808	1.90760	0.0195912	0.21133983	2.7913555	20	12 23.2	21.2
406687 2008 EQ_{154}	16.8	X	155.83700	310.91835	14.03630	22.14493	0.0202623	0.22833349	2.6510808	20	—	—
406688 2008 EA_{157}	17.6	X	319.25243	308.16820	170.10862	4.18380	0.0420182	0.21949985	2.7217395	20	—	—
406689 2008 ES_{157}	17.2	X	135.06212	111.65415	177.24850	4.26065	0.0281311	0.21421251	2.7663438	20	—	—
406690 2008 EE_{158}	18.5	X	335.62768	55.07076	17.91104	20.68605	0.0995370	0.37282322	1.9119099	20	—	—
406691 2008 EL_{166}	16.6	X	321.23280	63.91278	89.29801	9.88501	0.1574342	0.22956031	2.6416271	20	—	—
406692 2008 EL_{167}	16.8	X	359.30827	34.16794	135.39983	11.74559	0.1100058	0.23953716	2.5677582	20	2 3.4	19.5
406693 2008 FJ_{2}	17.1	X	210.84753	57.21666	184.89250	12.52432	0.0963465	0.22239947	2.6980307	20	—	—
406694 2008 FX_{4}	17.3	X	20.25506	54.49597	9.44474	6.39519	0.0244969	0.21979521	2.7193007	20	—	—
406695 2008 FE_{6}	16.3	X	336.23167	250.36682	247.30960	10.99903	0.1276544	0.23037194	2.6354189	20	—	—
406696 2008 FA_{8}	17.6	X	29.35102	265.85558	176.95621	4.17300	0.0759795	0.23094812	2.6310338	20	—	—
406697 2008 FM_{10}	17.4	X	166.89122	71.91447	189.55989	4.64323	0.0680957	0.21854558	2.7296567	20	—	—
406698 2008 FQ_{13}	17.0	X	150.30799	316.37354	348.07728	5.01594	0.0502616	0.22171417	2.7035874	20	—	—
406699 2008 FD_{18}	17.2	X	23.62834	310.23098	177.20225	14.70502	0.1850407	0.24032377	2.5621520	20	1 12.5	19.8
406700 2008 FQ_{20}	17.0	X	10.92407	347.05574	121.88516	6.08602	0.0920101	0.22796690	2.6539222	20	—	—
406701 2008 FL_{22}	16.8	X	94.83655	250.64166	88.96755	5.32084	0.0737284	0.21413651	2.7669983	20	—	—
406702 2008 FC_{23}	16.6	X	260.17152	88.08114	100.82332	5.34460	0.0328629	0.21872511	2.7281629	20	—	—
406703 2008 FJ_{23}	16.8	X	75.72439	310.48890	77.14848	6.29557	0.0263161	0.22179744	2.7029107	20	—	—
406704 2008 FZ_{23}	16.6	X	256.34887	174.61010	36.02905	15.09647	0.0669656	0.22212466	2.7002555	20	—	—
406705 2008 FZ_{37}	16.7	X	37.05756	254.45054	181.61476	12.51444	0.0967260	0.22601412	2.6691870	20	—	—
406706 2008 FM_{39}	17.0	X	252.80897	128.22908	30.05955	12.46176	0.0764196	0.21147362	2.7901780	20	12 15.5	20.9
406707 2008 FO_{39}	17.1	X	267.61178	91.87353	35.32353	8.22418	0.1061592	0.20914596	2.8108418	20	11 21.7	20.7
406708 2008 FF_{42}	16.5	X	251.42674	207.46166	358.19036	12.78004	0.1042471	0.22280006	2.6947957	20	—	—
406709 2008 FG_{46}	17.3	X	3.28373	312.64389	171.29981	10.84944	0.0773913	0.23292246	2.6161450	20	—	—
406710 2008 FG_{57}	16.9	X	259.24106	133.10828	45.77648	1.67191	0.1158645	0.21565992	2.7539523	20	—	—
406711 2008 FU_{61}	16.2	X	224.91632	216.93704	18.04079	14.77045	0.1448894	0.22049019	2.7135836	20	—	—
406712 2008 FQ_{78}	17.2	X	68.91279	28.48697	227.97794	1.55501	0.2264080	0.18737664	3.0245382	20	10 7.0	21.8
406713 2008 FB_{103}	16.6	X	135.65484	249.50587	179.40620	9.65560	0.0646805	0.24257191	2.5462969	20	4 8.4	20.1
406714 2008 FA_{111}	16.7	X	80.08425	350.30014	357.68845	4.78173	0.0899429	0.20890251	2.8130251	20	—	—
406715 2008 FA_{119}	17.2	X	134.32360	234.89115	62.33200	4.94941	0.0815797	0.21372361	2.7705610	20	—	—
406716 2008 FX_{122}	16.9	X	243.56254	22.93068	127.04870	5.94527	0.0379696	0.20565134	2.8425952	20	11 29.9	20.8
406717 2008 FB_{137}	17.2	X	332.99774	327.64788	158.18117	6.10328	0.1046076	0.21901454	2.7257587	20	—	—
406718 2008 GT_{14}	17.6	X	33.31409	83.77029	24.84388	6.88283	0.0892352	0.23439011	2.6052127	20	1 10.9	20.7
406719 2008 GC_{16}	17.6	X	350.33521	21.35097	98.45710	0.79225	0.0766863	0.22552831	2.6730188	20	—	—
406720 2008 GC_{22}	17.0	X	150.43087	283.16492	37.97727	5.55052	0.0951752	0.22769505	2.6560342	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406721 2008 GE_{24}	17.0	X	120.39935	86.85254	176.96241	10.90257	0.0918762	0.20263412	2.8707431	20	11 28.1	21.5
406722 2008 GZ_{29}	17.3	X	47.69522	224.65896	187.93902	3.36610	0.0773440	0.22384180	2.6864284	20	—	—
406723 2008 GU_{33}	17.3	X	164.29454	268.18911	15.57593	4.42679	0.0160989	0.21924565	2.7238429	20	—	—
406724 2008 GE_{41}	16.6	X	33.45423	265.53125	120.24730	5.31176	0.1159976	0.20898765	2.8122610	20	—	—
406725 2008 GE_{47}	16.5	X	85.15529	161.92687	72.44275	13.75128	0.1910097	0.18344340	3.0676183	20	9 30.3	21.4
406726 2008 GN_{55}	17.0	X	55.04856	267.78041	157.21360	3.17337	0.0730530	0.22683682	2.6627293	20	—	—
406727 2008 GS_{58}	16.9	X	80.10346	341.96559	23.64681	6.49273	0.0360789	0.21798694	2.7343183	20	—	—
406728 2008 GE_{75}	17.0	X	135.91324	207.95316	54.09433	11.81989	0.1683081	0.20182117	2.8784470	20	12 9.2	21.8
406729 2008 GM_{78}	16.5	X	91.10360	217.08799	154.43039	7.02503	0.0830164	0.21667783	2.7453206	20	—	—
406730 2008 GP_{87}	16.7	X	319.08672	319.94437	183.44612	10.73812	0.1389352	0.22456882	2.6806271	20	—	—
406731 2008 GV_{87}	16.5	X	333.10084	321.70558	168.94979	13.56441	0.1987666	0.22612239	2.6683349	20	—	—
406732 2008 GS_{101}	13.7	X	302.35204	236.92908	46.56595	30.33721	0.0545765	0.08219476	5.2388983	20	4 30.6	20.6
406733 2008 GK_{106}	16.6	X	150.89213	251.08738	27.48560	12.85283	0.0885156	0.21000236	2.8031947	20	—	—
406734 2008 GE_{114}	17.3	X	145.26264	28.48860	238.46548	2.81901	0.0580219	0.20858803	2.8158518	20	12 26.5	21.5
406735 2008 GB_{129}	16.7	X	354.08746	122.63616	161.99478	12.18070	0.1479005	0.17220604	3.1996597	20	7 6.5	20.6
406736 2008 GA_{142}	16.3	X	170.40120	56.95747	176.06214	12.04567	0.1380970	0.21272249	2.7792468	20	12 10.1	20.9
406737 2008 HP_{2}	16.8	X	209.55249	86.89780	152.58230	9.68068	0.0974582	0.21541623	2.7560289	20	—	—
406738 2008 HU_{2}	15.2	X	12.07440	58.29572	222.24135	26.14385	0.2292113	0.17556644	3.1587001	20	8 2.5	19.2
406739 2008 HQ_{4}	16.5	X	15.10351	55.68416	22.95883	22.33418	0.0372600	0.22454081	2.6808501	20	—	—
406740 2008 HY_{4}	17.0	X	337.40277	269.73191	187.65650	6.10076	0.0392336	0.21620684	2.7493061	20	—	—
406741 2008 HV_{24}	17.0	X	69.66494	215.25431	151.60723	4.54430	0.1126400	0.21199419	2.7856085	20	—	—
406742 2008 HB_{26}	16.5	X	53.24618	122.66499	188.11286	8.52634	0.1314588	0.18992529	2.9974194	20	11 14.3	20.8
406743 2008 HZ_{36}	17.1	X	112.00104	256.57255	167.81558	4.71770	0.0669614	0.23558575	2.5963907	20	3 3.4	20.4
406744 2008 HW_{60}	15.8	X	34.79019	26.09812	217.31697	16.54516	0.1749506	0.17696378	3.1420502	20	7 22.6	20.0
406745 2008 HU_{66}	16.1	X	52.04394	213.82956	78.08276	3.79991	0.3169491	0.18226525	3.0808234	20	11 12.5	20.6
406746 2008 HV_{67}	16.6	X	113.51352	179.52726	134.59354	11.64095	0.1125082	0.20344819	2.8630801	20	—	—
406747 2008 HV_{69}	17.0	X	73.03327	188.68657	113.34510	2.45614	0.1339772	0.19202005	2.9755802	20	11 25.7	21.5
406748 2008 JA_{4}	17.1	X	187.03613	71.20666	147.84458	12.53967	0.0874685	0.20344499	2.8631101	20	12 12.2	21.6
406749 2008 JJ_{10}	16.9	X	48.81431	171.15767	104.97817	1.74116	0.1734387	0.18161279	3.0881977	20	9 30.8	21.0
406750 2008 JU_{12}	15.5	X	230.00447	312.98872	93.09504	16.89455	0.0619080	0.17189109	3.2035670	20	6 26.5	20.2
406751 2008 JN_{13}	16.4	X	338.25976	287.81466	93.49495	11.64451	0.1239496	0.19186982	2.9771332	20	10 27.9	20.1
406752 2008 JD_{22}	16.3	X	120.61028	172.18361	68.65199	15.25412	0.0825426	0.19283964	2.9671432	20	11 1.5	20.9
406753 2008 JN_{27}	16.6	X	34.61955	111.26584	153.54232	5.70749	0.2637381	0.17597500	3.1538090	20	9 8.7	20.3
406754 2008 JY_{27}	17.3	X	13.14388	267.50809	178.00477	6.34858	0.0299425	0.21566848	2.7538795	20	—	—
406755 2008 JQ_{29}	16.2	X	27.21364	150.89541	134.63015	10.56242	0.1725068	0.17652189	3.1472917	20	9 12.1	20.1
406756 2008 JN_{30}	16.6	X	24.67442	240.70341	122.44593	11.28652	0.0599260	0.19674645	2.9277328	20	12 4.7	20.7
406757 2008 JP_{34}	16.2	X	93.41352	78.03447	193.50670	13.15935	0.0817631	0.19141134	2.9818853	20	11 6.4	20.7
406758 2008 JW_{39}	16.4	X	20.80307	232.98023	80.59827	10.89288	0.0852665	0.18268033	3.0761548	20	10 2.2	20.6
406759 2008 JR_{40}	16.7	X	56.97252	80.73238	200.16620	5.65257	0.1431984	0.18423589	3.0588151	20	10 12.1	20.9
406760 2008 KD_{1}	16.0	X	10.02559	235.59429	97.44964	11.76223	0.2058874	0.18127853	3.0919927	20	10 24.9	19.7
406761 2008 KB_{7}	16.1	X	21.51801	180.26014	122.93185	12.85789	0.0938785	0.18034177	3.1026908	20	9 18.8	20.3
406762 2008 KJ_{9}	17.0	X	42.78932	208.45425	91.28336	3.14732	0.2217655	0.18304371	3.0720823	20	10 30.1	21.1
406763 2008 KX_{9}	16.7	X	110.38493	5.68847	226.23793	11.01229	0.1849768	0.18814641	3.0162830	20	10 11.7	21.6
406764 2008 KB_{14}	16.2	X	72.45585	195.23969	120.07201	13.01800	0.0424848	0.19756177	2.9196723	20	12 3.2	20.5
406765 2008 KD_{15}	16.7	X	76.19282	229.61252	68.04457	3.83884	0.2084145	0.19131733	2.9828620	20	11 30.9	21.3
406766 2008 KZ_{30}	16.2	X	24.44381	247.22905	94.33800	15.32382	0.1817423	0.18801368	3.0177025	20	11 23.8	20.2
406767 2008 KS_{42}	16.3	X	20.17470	258.59144	121.31281	10.77756	0.1237153	0.19727116	2.9225390	20	12 26.6	20.2
406768 2008 LH_{5}	15.5	X	281.75406	310.65968	116.36710	16.75042	0.0595537	0.17741423	3.1367296	20	10 4.3	20.1
406769 2008 LL_{8}	16.2	X	121.49064	113.56427	128.51784	10.68338	0.0626885	0.19288486	2.9666794	20	11 2.6	20.8
406770 2008 OJ	15.2	X	42.44251	0.87470	314.53390	29.09195	0.2207178	0.17643028	3.1483811	20	11 3.7	20.2
406771 2008 OH_{21}	15.9	X	353.10446	190.65726	185.82754	15.28575	0.2497670	0.17188596	3.2036307	20	11 18.1	19.4
406772 2008 OM_{21}	16.3	X	49.89442	165.81747	155.48321	11.81147	0.1620463	0.17574103	3.1566076	20	11 25.5	21.0
406773 2008 OM_{22}	15.7	X	326.75063	266.05135	144.56843	25.25444	0.3325956	0.17299199	3.1899611	20	11 7.7	18.9
406774 2008 PO_{1}	16.4	X	27.88146	176.74118	152.47614	17.33314	0.2434740	0.17287334	3.1914205	20	11 19.9	20.8
406775 2008 PB_{2}	15.4	X	26.70301	207.26064	139.58947	28.72744	0.1744361	0.17522084	3.1628520	20	12 3.4	20.1
406776 2008 PB_{21}	15.2	X	349.59329	21.62394	354.76270	28.33514	0.2055240	0.17248871	3.1961631	20	10 19.9	19.1
406777 2008 QP_{29}	16.1	X	353.93042	222.85773	134.94796	4.99474	0.1387882	0.16983742	3.2293401	20	10 15.7	20.0
406778 2008 QZ_{47}	16.3	X	348.74250	55.04755	341.20842	15.14479	0.2241564	0.17291869	3.1908625	20	11 26.9	20.1
406779 2008 QC_{48}	16.0	X	70.55938	121.05353	192.10433	17.07780	0.1917834	0.17877708	3.1207680	20	12 10.2	21.1
406780 2008 RN_{11}	15.4	X	33.16468	103.14814	165.34397	10.34971	0.0293634	0.15535460	3.4270463	20	8 5.4	20.2
406781 2008 RN_{16}	16.3	X	277.27473	321.54395	202.14160	9.78895	0.0541828	0.18668899	3.0319608	20	—	—
406782 2008 RT_{27}	15.2	X	15.15636	38.83558	322.47262	16.05041	0.2290679	0.17636671	3.1491376	20	12 3.4	19.3
406783 2008 RC_{71}	16.0	X	55.53521	318.35334	329.12908	16.19397	0.1371801	0.17297610	3.1901564	20	10 7.8	20.8
406784 2008 RV_{74}	16.1	X	46.77018	182.35437	158.72083	11.49701	0.2115664	0.17754549	3.1351834	20	12 20.3	20.8
406785 2008 RZ_{76}	15.8	X	307.92035	56.02112	11.52941	10.51941	0.0844722	0.17116979	3.2125605	20	10 27.6	20.1
406786 2008 RN_{82}	15.9	X	316.76352	247.06987	169.68576	26.13861	0.1819668	0.17128570	3.2111109	20	10 27.6	19.9
406787 2008 RH_{109}	16.2	X	313.41266	234.43449	181.43301	3.97083	0.1332947	0.16938281	3.2351158	20	10 20.3	20.0
406788 2008 RT_{138}	15.6	X	6.04666	336.98342	32.69281	11.32140	0.1540201	0.17095594	3.2152390	20	11 17.5	19.5
406789 2008 SF_{14}	16.3	X	102.54761	106.31186	158.57081	25.87734	0.2387810	0.18124810	3.0923388	20	11 21.7	22.0
406790 2008 SG_{89}	15.5	X	278.24491	273.01568	174.20389	16.61334	0.1160284	0.17155449	3.2077560	20	10 10.9	19.8
406791 2008 SF_{90}	19.1	X	256.51938	128.29691	257.99431	1.84208	0.1371581	0.31586444	2.1353491	20	6 27.8	21.6
406792 2008 SN_{143}	18.6	X	237.69280	208.93966	187.42560	5.28211	0.2002472	0.31059848	2.1594169	20	6 10.8	21.6
406793 2008 SG_{258}	15.5	X	211.08417	356.42249	213.83321	29.03552	0.1466960	0.17596975	3.1538718	20	12 11.3	20.7
406794 2008 TR_{65}	16.0	X	358.54507	179.35287	224.33883	4.44660	0.1640314	0.17382055	3.1798159	20	12 22.1	19.8
406795 2008 TS_{67}	18.3	X	287.88183	204.86931	167.20084	3.48494	0.1381532	0.31886067	2.1219513	20	7 25.9	20.2
406796 2008 TH_{103}	15.9	X	231.91409	239.03960	195.95180	12.12586	0.0380897	0.15016347	3.5055798	20	8 2.2	21.1
406797 2008 TG_{141}	16.0	X	216.45670	80.46303	14.03313	6.65300	0.0246575	0.15382084	3.4497895	20	8 15.3	21.0
406798 2008 TG_{184}	15.8	X	42.81645	100.11782	303.94153	16.24231	0.1502378	0.18411820	3.0601184	20	—	—
406799 2008 UQ_{8}	16.2	X	4.98183	186.14728	212.48156	9.17260	0.0820908	0.17627395	3.1502424	20	12 17.2	20.4
406800 2008 US_{24}	16.4	X	308.91665	205.59472	162.85065	1.73563	0.0729150	0.15191601	3.4785668	20	8 15.8	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406801 2008 UX_{28}	18.5	X	277.16279	167.59973	196.29614	3.60358	0.1315569	0.31363464	2.1454581	20	6 25.2	20.7
406802 2008 UM_{46}	17.8	X	259.34414	62.96999	251.74027	5.41917	0.2331611	0.30074787	2.2063158	20	3 8.9	21.4
406803 2008 UX_{64}	16.4	X	307.54591	182.42402	239.07829	8.84399	0.4971418	0.16355485	3.3115178	20	8 14.3	20.2
406804 2008 UY_{66}	18.5	X	153.62710	77.77536	7.80532	5.00780	0.1157746	0.29894694	2.2151679	20	5 22.2	21.5
406805 2008 UJ_{116}	18.0	X	127.16238	211.64938	284.82868	5.03334	0.1114072	0.30349885	2.1929632	20	7 3.4	20.8
406806 2008 UB_{120}	17.5	X	262.42243	110.47860	274.37882	6.92271	0.0710478	0.31278269	2.1493522	20	7 15.0	19.8
406807 2008 UM_{133}	18.3	X	178.12410	193.40764	258.86680	0.74045	0.0907072	0.30695082	2.1764909	20	6 29.9	21.3
406808 2008 UN_{186}	16.2	X	97.70484	354.14328	25.25799	9.27718	0.0747292	0.18891258	3.0081221	20	—	—
406809 2008 UM_{209}	18.0	X	324.77941	214.35942	25.10012	5.22715	0.1195628	0.29582784	2.2307112	20	3 8.8	20.3
406810 2008 UK_{239}	17.8	X	339.44590	247.83249	332.94013	6.39347	0.0810896	0.29088830	2.2558932	20	3 8.4	20.2
406811 2008 UA_{304}	15.8	X	295.22546	49.50864	358.30951	12.91224	0.1956765	0.15762903	3.3940007	20	9 2.7	20.1
406812 2008 UD_{323}	18.0	X	352.68799	358.49565	237.79751	6.22397	0.0501295	0.29909066	2.2144582	20	4 26.0	20.2
406813 2008 VA_{57}	19.9	X	316.08309	230.26337	129.94430	2.29774	0.2994394	0.32421320	2.0985320	20	8 19.6	19.6
406814 2008 WN_{29}	18.8	X	288.70013	356.47145	19.41295	3.21001	0.1525184	0.31576895	2.1357796	20	8 2.3	20.5
406815 2008 WA_{69}	18.0	X	278.86080	268.74719	93.05414	4.50337	0.1471135	0.31061769	2.1593279	20	6 21.8	20.0
406816 2008 WE_{73}	17.9	X	72.98203	242.96738	271.50967	3.83313	0.1480871	0.28990437	2.2609947	20	5 22.3	20.2
406817 2008 WB_{105}	18.2	X	280.94971	283.81181	84.79211	2.83033	0.0306178	0.30992076	2.1625638	20	7 27.5	20.5
406818 2008 WN_{108}	17.8	X	216.11321	117.66463	321.45123	4.21215	0.1348937	0.31142497	2.1555946	20	7 24.0	20.6
406819 2008 WF_{140}	16.7	X	36.97496	225.70620	284.90852	6.51064	0.2037990	0.26933167	2.3747129	20	3 11.8	18.7
406820 2008 XF_{1}	15.1	X	27.72146	302.67371	40.87242	26.95778	0.2139830	0.17229324	3.1985800	20	11 22.5	19.4
406821 2008 XX_{34}	19.0	X	232.69610	83.41622	292.50710	3.74178	0.1671857	0.30278175	2.1964244	20	5 9.8	22.3
406822 2008 XQ_{51}	17.3	X	344.74676	235.77453	286.19875	8.12990	0.1524820	0.26405679	2.4062338	20	—	—
406823 2008 YN_{16}	17.6	X	271.50805	218.79030	100.79282	6.80435	0.1836160	0.29082114	2.2562405	20	4 9.6	20.8
406824 2008 YR_{16}	18.0	X	310.23816	106.76428	104.17163	2.71595	0.1242245	0.26687243	2.3892792	20	1 10.3	21.1
406825 2008 YR_{21}	17.8	X	315.79924	294.73108	285.98664	4.01434	0.0591073	0.27095783	2.3652020	20	2 8.1	20.7
406826 2008 YL_{62}	18.4	X	209.01389	249.06835	141.52187	4.34196	0.1452186	0.29372709	2.2413347	20	5 9.5	21.8
406827 2008 YN_{97}	18.2	X	101.32461	112.63516	359.17002	1.97746	0.0654550	0.28206477	2.3026971	20	4 17.9	21.0
406828 2008 YS_{101}	18.1	X	192.94771	151.61958	242.67312	1.59823	0.1254578	0.29043803	2.2582242	20	4 26.4	21.4
406829 2008 YX_{101}	17.8	X	339.44737	69.46507	135.55320	3.97286	0.1276377	0.27306529	2.3530169	20	2 11.9	20.0
406830 2008 YF_{116}	17.1	X	282.59608	348.69907	282.53366	6.34240	0.0966170	0.27898520	2.3196116	20	2 23.6	20.2
406831 2008 YA_{117}	18.0	X	228.40325	258.26213	104.08646	6.24058	0.1195875	0.29137018	2.2534053	20	4 24.9	21.2
406832 2008 YS_{118}	17.8	X	308.94333	248.06471	308.37140	2.23824	0.2455984	0.25907412	2.4369879	20	—	—
406833 2008 YA_{130}	17.8	X	308.39386	228.68771	0.10202	1.29365	0.1376678	0.27310436	2.3527925	20	1 28.8	20.8
406834 2008 YE_{139}	17.6	X	340.01063	69.21038	116.10527	6.45458	0.0498872	0.27104563	2.3646913	20	1 27.9	20.3
406835 2008 YQ_{154}	17.7	X	295.04558	118.12157	89.67866	6.99786	0.0818225	0.26371146	2.4083340	20	—	—
406836 2008 YK_{155}	17.7	X	358.69796	256.86945	292.91599	5.81816	0.0738883	0.27420503	2.3464922	20	2 25.8	20.3
406837 2008 YE_{160}	18.3	X	144.22118	256.57886	186.04105	0.34128	0.1837043	0.28459796	2.2890126	20	5 14.3	21.7
406838 2009 AZ_{1}	17.5	X	153.04205	325.63270	117.66637	7.40161	0.2156646	0.29267570	2.2466992	20	5 26.9	21.2
406839 2009 AG_{14}	18.2	X	233.69885	271.57354	133.59785	5.07623	0.1448266	0.30344622	2.1932168	20	6 24.4	21.1
406840 2009 AU_{14}	17.7	X	251.49147	280.07344	308.87267	1.28870	0.1544091	0.25439372	2.4667878	20	—	—
406841 2009 AV_{31}	17.5	X	122.60890	202.29986	271.86198	3.42467	0.0750118	0.28866881	2.2674418	20	5 21.8	20.2
406842 2009 AN_{35}	17.8	X	264.02653	327.34964	270.72918	4.37052	0.1870499	0.26101208	2.4249101	20	—	—
406843 2009 AJ_{37}	18.2	X	39.61393	50.32004	127.67371	5.24921	0.0598749	0.28268767	2.2993132	20	4 21.9	20.7
406844 2009 AX_{43}	18.0	X	297.30639	307.45503	315.48099	6.35089	0.1131241	0.27582438	2.3372991	20	3 1.4	21.1
406845 2009 AC_{47}	17.5	X	324.60887	244.16628	306.79634	1.52714	0.1203776	0.26202012	2.4186867	20	1 4.5	20.3
406846 2009 BA_{5}	16.7	X	305.13432	293.40084	256.00814	8.05453	0.1579775	0.25702891	2.4498983	20	—	—
406847 2009 BC_{9}	17.8	X	85.95406	204.94659	266.62626	2.77751	0.1166838	0.27982773	2.3149532	20	4 2.8	20.3
406848 2009 BM_{24}	17.3	X	37.75524	208.51522	282.64944	5.85578	0.0950667	0.27012696	2.3700495	20	2 8.4	19.8
406849 2009 BH_{25}	17.2	X	208.66105	65.72665	162.17493	13.31495	0.2138425	0.23486099	2.6017294	20	—	—
406850 2009 BR_{31}	17.6	X	305.42328	117.35589	88.47425	3.19716	0.1594582	0.26173471	2.4204447	20	—	—
406851 2009 BD_{35}	17.9	X	162.09302	22.23509	43.39921	2.33192	0.1741147	0.28805584	2.2706573	20	5 8.5	21.4
406852 2009 BT_{35}	17.4	X	53.24466	5.62874	95.58635	5.49496	0.0591880	0.26667515	2.3904574	20	1 24.0	19.9
406853 2009 BQ_{63}	18.1	X	357.75714	240.50378	332.09308	6.43388	0.0806199	0.27763988	2.3270988	20	3 27.6	20.6
406854 2009 BW_{63}	17.9	X	16.05239	191.28132	336.40930	6.25141	0.0545482	0.27210408	2.3585550	20	2 26.2	20.4
406855 2009 BM_{74}	17.8	X	208.23624	176.01583	242.41026	7.23044	0.2173625	0.29904254	2.2146957	20	6 9.9	21.4
406856 2009 BM_{88}	17.7	X	245.36457	79.70159	160.76686	1.43047	0.1422849	0.25543511	2.4600786	20	—	—
406857 2009 BB_{96}	17.7	X	44.20601	35.05092	120.27185	2.71436	0.1512184	0.27459846	2.3442503	20	4 4.6	19.6
406858 2009 BQ_{100}	18.6	X	236.46074	237.90490	152.44720	2.86015	0.1534172	0.29828085	2.2184644	20	6 5.9	21.6
406859 2009 BH_{102}	18.2	X	34.99169	30.26031	111.48755	4.19267	0.0719268	0.26723237	2.3871333	20	2 22.1	20.6
406860 2009 BN_{112}	17.9	X	343.44575	169.38913	12.82445	2.13902	0.1297163	0.25951482	2.4342281	20	1 20.0	20.6
406861 2009 BP_{114}	17.7	X	111.35616	346.32159	109.14317	7.19737	0.0533084	0.27939357	2.3173508	20	4 11.7	20.7
406862 2009 BR_{115}	18.2	X	338.77961	127.48792	60.26507	2.29621	0.1192847	0.26829855	2.3808050	20	1 20.1	20.9
406863 2009 BF_{121}	18.3	X	348.30612	343.48180	201.89876	0.75962	0.1242929	0.26662552	2.3907541	20	1 30.8	20.9
406864 2009 BC_{126}	17.6	X	280.50522	212.91497	351.55896	1.08394	0.1246058	0.25455212	2.4657644	20	—	—
406865 2009 BB_{127}	17.7	X	267.77111	74.18314	151.27856	3.74803	0.1030344	0.25683565	2.4511272	20	—	—
406866 2009 BA_{133}	17.2	X	6.32714	81.20265	119.71643	8.03322	0.0891857	0.27789195	2.3256913	20	4 1.1	19.6
406867 2009 BY_{159}	17.8	X	349.12505	278.98580	299.68129	5.64028	0.0438800	0.27912476	2.3188383	20	3 24.4	20.5
406868 2009 BR_{169}	17.8	X	175.79751	261.81818	128.47171	3.73677	0.1171454	0.27842547	2.3227194	20	4 5.6	21.1
406869 2009 BU_{170}	17.8	X	343.22544	241.82394	306.29844	1.62250	0.1591386	0.26740084	2.3861306	20	1 21.2	20.4
406870 2009 BJ_{172}	17.8	X	334.07484	349.28909	174.06637	3.14865	0.1206055	0.25983302	2.4322403	20	—	—
406871 2009 BX_{172}	17.9	X	56.33647	109.35043	29.22079	2.44361	0.1682338	0.27392511	2.3480904	20	4 3.9	19.9
406872 2009 BL_{173}	17.7	X	270.53696	184.69968	27.77130	1.54222	0.1315850	0.25381063	2.4705644	20	—	—
406873 2009 BW_{179}	16.8	X	309.50601	129.80507	106.38930	7.77751	0.0875235	0.26767669	2.3844910	20	2 19.8	19.8
406874 2009 BG_{183}	17.6	X	254.96507	88.41065	149.20084	2.02216	0.1379623	0.25352678	2.4724081	20	—	—
406875 2009 CF_{2}	16.4	X	292.42343	149.55541	41.17895	13.00941	0.1576958	0.25436391	2.4669805	20	—	—
406876 2009 CZ_{11}	17.2	X	61.43404	201.19000	285.13274	5.76048	0.0655065	0.27238607	2.3569269	20	3 7.9	19.9
406877 2009 CJ_{29}	18.1	X	69.33179	88.19438	48.67974	2.10019	0.1160656	0.27621309	2.3351057	20	4 15.9	20.5
406878 2009 CG_{31}	16.2	X	142.72334	288.64463	344.75493	16.34160	0.2868600	0.22973673	2.6402746	20	—	—
406879 2009 CR_{32}	17.5	X	51.30950	10.38869	109.79310	2.25289	0.1350773	0.26768130	2.3844636	20	2 22.9	19.5
406880 2009 CF_{55}	18.0	X	343.87079	202.68466	329.98260	2.25325	0.1194353	0.26333958	2.4106008	20	1 7.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406881 2009 CB_{57}	17.4	X	10.71390	175.45828	350.89599	7.02485	0.0533217	0.26652925	2.3913297	20	2 18.6	20.1
406882 2009 CJ_{58}	18.2	X	132.22843	286.13514	168.24402	5.60623	0.1250150	0.28168894	2.3047449	20	5 13.9	21.4
406883 2009 CP_{58}	17.7	X	251.75790	236.55799	349.15014	3.63326	0.1842810	0.24502600	2.5292666	20	—	—
406884 2009 CC_{63}	17.2	X	77.99809	328.30250	172.94650	6.41143	0.0472133	0.27261489	2.3556079	20	4 26.3	20.0
406885 2009 CF_{65}	17.9	X	38.68090	34.29730	127.67297	6.28700	0.0845998	0.27216177	2.3582217	20	3 30.7	20.4
406886 2009 CH_{65}	17.1	X	300.82936	297.37022	275.43777	4.64094	0.1403123	0.26119074	2.4238042	20	—	—
406887 2009 DP_{13}	17.8	X	209.11045	351.47262	203.47675	5.19870	0.2769361	0.23005822	2.6378143	20	11 21.3	22.0
406888 2009 DQ_{16}	17.3	X	334.14085	49.54101	142.54340	8.65079	0.1525724	0.26328334	2.4109441	20	1 13.7	20.0
406889 2009 DV_{16}	17.2	X	132.25912	89.98722	334.65357	9.52782	0.2028560	0.27790158	2.3256376	20	4 6.4	20.8
406890 2009 DJ_{28}	17.9	X	92.23159	125.24601	342.31943	6.21917	0.0802832	0.27478915	2.3431656	20	3 31.3	20.8
406891 2009 DY_{49}	17.2	X	212.05138	288.78253	13.76171	6.61309	0.1187290	0.25369171	2.4713364	20	1 24.8	21.0
406892 2009 DA_{57}	17.0	X	180.03569	239.53678	27.09086	5.31679	0.1577943	0.23882702	2.5728457	20	—	—
406893 2009 DD_{59}	17.5	X	93.29513	84.50290	355.44722	12.28307	0.1908125	0.26965920	2.3727896	20	3 14.9	20.1
406894 2009 DP_{62}	17.7	X	169.90389	100.86670	350.35490	5.72873	0.1050367	0.29062855	2.2572372	20	6 18.3	21.0
406895 2009 DP_{73}	17.3	X	223.95720	64.58835	146.86611	13.77497	0.1978632	0.23579560	2.5948500	20	—	—
406896 2009 DX_{81}	17.5	X	98.13491	307.97175	147.46153	6.68845	0.0633165	0.26842724	2.3800441	20	3 24.7	20.3
406897 2009 DV_{82}	18.0	X	48.72269	74.25855	44.17702	2.68769	0.1350187	0.26331779	2.4107338	20	2 16.8	20.2
406898 2009 DB_{87}	17.6	X	91.25955	119.86554	332.94052	5.05870	0.1824124	0.27126332	2.3634260	20	3 26.3	20.4
406899 2009 DK_{89}	17.3	X	148.89477	304.22427	138.79205	6.37070	0.0911503	0.27833679	2.3232127	20	5 15.4	20.6
406900 2009 DR_{105}	17.9	X	46.10882	328.98858	181.01572	4.29004	0.1677724	0.26980208	2.3719517	20	4 1.6	19.7
406901 2009 DH_{115}	17.4	X	139.05252	281.39777	150.30815	5.35731	0.1225874	0.27908526	2.3190572	20	4 21.3	20.6
406902 2009 DB_{121}	18.6	X	148.51475	145.17020	308.62330	1.92453	0.1718206	0.28527087	2.2854116	20	6 1.3	21.9
406903 2009 DH_{124}	18.0	X	325.52531	52.91296	139.91086	3.07683	0.1207769	0.25850229	2.4405804	20	1 8.6	21.0
406904 2009 DW_{124}	16.9	X	203.58676	233.60272	358.60233	12.22528	0.1371531	0.23577307	2.5950153	20	—	—
406905 2009 DV_{130}	17.2	X	296.67524	198.10523	33.50467	3.32115	0.1561921	0.25688844	2.4507914	20	1 18.5	20.6
406906 2009 DZ_{131}	18.0	X	283.23563	12.47784	196.03170	5.15209	0.1055510	0.25128482	2.4870922	20	—	—
406907 2009 DH_{136}	16.2	X	210.77469	198.79748	75.40592	14.55298	0.1483871	0.23745233	2.5827662	20	—	—
406908 2009 DY_{136}	17.6	X	36.30835	201.19916	283.46575	4.23703	0.1171270	0.26515601	2.3995791	20	1 29.8	20.0
406909 2009 EQ_{4}	16.8	X	207.50774	206.32458	352.46513	13.68122	0.1947400	0.23062933	2.6334578	20	11 28.7	21.1
406910 2009 EB_{13}	17.7	X	333.07108	333.21582	188.17214	6.20099	0.0964345	0.25578530	2.4578327	20	—	—
406911 2009 EE_{21}	17.2	X	100.76274	61.21278	68.95047	7.20256	0.0680076	0.27987016	2.3147192	20	5 15.5	19.9
406912 2009 EX_{24}	17.7	X	335.68658	207.55047	344.50561	2.52763	0.1356461	0.26105684	2.4246329	20	1 20.3	20.5
406913 2009 EF_{28}	17.4	X	352.79800	37.45724	114.85665	3.35382	0.1309573	0.25343722	2.4729905	20	—	—
406914 2009 FM_{6}	18.7	X	135.64555	84.95598	359.67510	5.79834	0.1275776	0.28146171	2.3059851	20	5 1.2	21.9
406915 2009 FL_{7}	17.1	X	217.83658	199.23478	64.90174	3.91382	0.1377436	0.24575909	2.5242343	20	—	—
406916 2009 FC_{12}	17.7	X	181.04350	251.04483	152.27871	6.94072	0.0960589	0.27976372	2.3153063	20	4 28.8	21.1
406917 2009 FB_{16}	17.5	X	173.10235	4.85832	49.76864	7.88464	0.0943738	0.27530192	2.3402552	20	5 3.1	20.6
406918 2009 FG_{29}	16.1	X	120.11587	81.59481	164.65937	31.47401	0.1363012	0.21820348	2.7325090	20	11 14.7	21.0
406919 2009 FW_{29}	18.1	X	109.71274	287.93163	183.52610	5.97304	0.1897282	0.27797184	2.3252457	20	5 18.7	21.4
406920 2009 FJ_{31}	17.3	X	5.46607	158.36559	28.30337	6.07404	0.1293374	0.26552758	2.3973400	20	3 6.6	19.5
406921 2009 FU_{42}	16.7	X	160.40225	303.30328	61.12928	7.63774	0.1434229	0.25704885	2.4497717	20	2 22.1	20.5
406922 2009 FN_{45}	17.9	X	99.66290	123.34111	1.46962	5.83661	0.1653890	0.27796733	2.3252708	20	5 18.7	21.0
406923 2009 FP_{49}	17.4	X	270.72625	86.71818	149.45998	6.56342	0.0962850	0.25401342	2.4692493	20	1 1.6	21.1
406924 2009 FR_{56}	16.8	X	273.14962	216.32492	310.51507	26.78266	0.1652295	0.24076464	2.5590233	20	—	—
406925 2009 FU_{63}	17.6	X	235.18512	42.73386	151.38803	4.16336	0.1492292	0.23303434	2.6153076	20	—	—
406926 2009 FC_{66}	16.7	X	169.65151	20.68752	353.98671	24.97892	0.2384515	0.26791040	2.3831040	20	3 14.9	20.6
406927 2009 GE_{1}	16.4	X	196.34009	9.00821	220.22157	13.46935	0.2046371	0.22566893	2.6719082	20	12 24.6	20.8
406928 2009 GL_{6}	17.6	X	80.62551	250.01319	212.37324	4.25845	0.1363559	0.26156839	2.4214706	20	3 17.8	20.4
406929 2009 HS_{11}	16.8	X	192.70780	223.42046	64.02066	14.98244	0.0750920	0.23869852	2.5737690	20	—	—
406930 2009 HG_{14}	16.9	X	241.55873	152.10825	85.72519	4.32149	0.1778396	0.24114741	2.5563147	20	—	—
406931 2009 HT_{20}	17.2	X	176.77002	117.90573	103.69278	4.16433	0.2605519	0.22141114	2.7060537	20	11 26.9	22.0
406932 2009 HZ_{22}	17.6	X	156.97577	162.50019	156.64851	6.71483	0.0364930	0.24138555	2.5546331	20	—	—
406933 2009 HZ_{27}	17.6	X	307.60827	186.40537	16.44221	0.52317	0.1498816	0.25178449	2.4838006	20	—	—
406934 2009 HO_{40}	16.9	X	178.50143	207.81652	152.56812	7.27283	0.0921104	0.26105698	2.4246320	20	2 28.6	20.4
406935 2009 HV_{56}	17.2	X	252.28926	218.34854	78.70906	5.98398	0.1108304	0.25706751	2.4496531	20	2 28.7	20.8
406936 2009 HC_{66}	17.0	X	76.75945	16.18892	93.24636	7.37786	0.0674784	0.25782333	2.4448633	20	3 17.2	20.0
406937 2009 HD_{68}	17.4	X	188.08341	85.34233	183.77770	3.81394	0.1824152	0.23287509	2.6164997	20	—	—
406938 2009 HD_{74}	16.5	X	161.91099	201.03630	96.63373	16.14870	0.2881695	0.23077327	2.6323626	20	—	—
406939 2009 HO_{74}	16.8	X	178.77550	284.93961	282.15394	11.10986	0.3464083	0.22384667	2.6863894	20	11 4.8	22.0
406940 2009 HZ_{77}	16.8	X	170.11917	161.18987	103.73530	7.91154	0.1604567	0.22965384	2.6409098	20	—	—
406941 2009 HA_{89}	17.2	X	158.20927	247.56667	57.91919	3.78913	0.0600421	0.23254313	2.6189892	20	—	—
406942 2009 HC_{96}	16.6	X	235.79471	116.10649	117.81751	8.45799	0.1506736	0.23675270	2.5878519	20	—	—
406943 2009 HO_{96}	17.0	X	93.36310	224.64602	97.67830	7.31539	0.1549437	0.21908356	2.7251863	20	—	—
406944 2009 HC_{105}	16.8	X	351.26363	31.64440	68.00398	14.35059	0.1375469	0.23577470	2.5950033	20	—	—
406945 2009 HC_{106}	16.4	X	185.04701	173.82666	91.70527	7.49584	0.1814603	0.23071444	2.6328101	20	—	—
406946 2009 JW_{4}	16.7	X	268.93497	33.91861	136.95177	14.31315	0.0918588	0.23482790	2.6019738	20	—	—
406947 2009 JP_{5}	16.5	X	223.78005	237.17666	96.65727	16.84928	0.2061719	0.25453608	2.4658680	20	3 17.6	20.9
406948 2009 JA_{6}	16.4	X	210.78235	154.85917	86.13675	15.74582	0.1145289	0.23240203	2.6200492	20	—	—
406949 2009 JH_{6}	17.0	X	149.29414	128.15029	158.21534	8.39650	0.0638553	0.22704411	2.6611083	20	—	—
406950 2009 JQ_{8}	16.8	X	271.83561	50.41811	122.13889	6.78139	0.1984310	0.23555653	2.5966054	20	—	—
406951 2009 JP_{12}	16.8	X	201.89793	208.54270	59.30341	12.64563	0.1526636	0.23539022	2.5978283	20	—	—
406952 2009 KJ	17.2	X	29.30811	67.10564	12.51349	32.96044	0.7174636	0.71300729	1.2409094	20	—	—
406953 2009 KJ_{17}	17.7	X	210.23938	42.90896	183.25877	5.11836	0.1963426	0.22937229	2.6430705	20	—	—
406954 2009 MY_{5}	16.9	X	178.17620	144.60120	114.99231	14.35383	0.2295851	0.22604356	2.6689553	20	—	—
406955 2009 NA_{1}	17.1	X	75.88695	197.56787	168.23212	8.72192	0.1970197	0.21249349	2.7812432	20	—	—
406956 2009 NN_{2}	16.1	X	143.00133	25.14089	300.69869	9.97089	0.0903472	0.22123203	2.7075140	20	—	—
406957 Kochetova	16.0	X	81.42986	185.82195	208.17562	8.81577	0.1635224	0.21225191	2.7833531	20	—	—
406958 2009 OJ_{14}	17.7	X	317.50802	234.43958	161.59875	23.28375	0.0881330	0.37033002	1.9204814	20	12 2.3	19.9
406959 2009 OU_{15}	16.7	X	132.89685	143.63078	156.85988	9.33732	0.1846233	0.21242097	2.7818762	20	—	—
406960 2009 OK_{23}	16.8	X	106.86210	203.60925	167.89718	14.19731	0.2067292	0.21761413	2.7374403	20	1 11.7	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
406961 2009 PF_{10}	16.5	X	69.63841	189.53752	147.95438	18.66135	0.1376679	0.20271223	2.8700056	20	—	—
406962 2009 PJ_{10}	15.8	X	305.53139	251.12270	148.51691	15.74571	0.0741634	0.18555853	3.0442625	20	9 28.4	19.9
406963 2009 PU_{15}	16.0	X	327.00650	227.69579	179.81690	8.50933	0.1232005	0.18555570	3.0442934	20	11 6.9	19.7
406964 2009 PM_{19}	17.2	X	63.10896	182.89803	180.72485	1.91019	0.0790038	0.20243135	2.8726598	20	—	—
406965 2009 QJ_{3}	15.9	X	354.51486	57.24467	321.65612	8.99915	0.0745014	0.19087609	2.9874573	20	11 7.4	19.9
406966 2009 QO_{3}	16.3	X	3.49335	37.25715	301.11842	10.22121	0.1287529	0.18417738	3.0594628	20	9 30.5	20.2
406967 2009 QP_{13}	16.1	X	342.05782	165.54305	185.17836	9.18579	0.0766890	0.17823122	3.1271366	20	9 13.6	20.1
406968 2009 QW_{14}	16.1	X	21.98565	18.78268	342.59968	9.15104	0.0718499	0.19075571	2.9887140	20	11 24.6	20.3
406969 2009 QL_{15}	16.6	X	269.22862	261.86862	169.40405	10.04575	0.2125419	0.17434346	3.1734545	20	8 22.6	21.0
406970 2009 QZ_{38}	16.7	X	22.87009	133.54536	183.86854	11.27929	0.1572876	0.18235080	3.0798597	20	10 14.5	20.5
406971 2009 QA_{41}	16.8	X	105.87819	299.80998	47.36454	7.82630	0.2725455	0.21072705	2.7967642	20	—	—
406972 2009 QZ_{44}	16.1	X	312.91130	63.44511	334.98936	9.29702	0.0751386	0.18310339	3.0714148	20	9 30.1	20.1
406973 2009 QZ_{52}	16.9	X	2.55367	43.24907	328.93440	8.56591	0.2135122	0.18690864	3.0295849	20	11 27.0	20.4
406974 2009 QY_{53}	16.6	X	65.32855	285.73664	56.90088	2.79036	0.1013215	0.19837932	2.9116452	20	—	—
406975 2009 QE_{56}	16.5	X	39.00341	96.82259	195.54908	4.63473	0.1004245	0.17983391	3.1085295	20	9 25.6	20.7
406976 2009 QL_{56}	16.5	X	31.86192	115.60130	191.34313	10.14372	0.0555002	0.18026406	3.1035824	20	9 28.5	20.5
406977 2009 QF_{57}	17.0	X	339.00943	62.87730	359.93766	9.78326	0.1016512	0.19262528	2.9693441	20	12 15.1	20.8
406978 2009 QS_{61}	16.0	X	275.45694	277.93954	166.18308	16.54893	0.0925674	0.18327299	3.0695196	20	10 9.2	20.2
406979 2009 QE_{62}	17.0	X	354.70023	265.78060	112.79621	1.96888	0.2228814	0.18569506	3.0427702	20	11 24.0	20.2
406980 2009 QG_{63}	15.5	X	357.35258	68.84397	287.88827	17.01303	0.1127455	0.18139453	3.0906744	20	10 9.4	19.7
406981 2009 QL_{64}	16.2	X	271.92529	116.92833	351.78969	9.70952	0.0681289	0.19066328	2.9896798	20	11 2.7	20.4
406982 2009 QZ_{64}	15.4	X	299.46158	348.42488	83.20541	10.66719	0.0441232	0.18427387	3.0583948	20	11 2.2	19.6
406983 2009 RE_{5}	17.6	X	144.94311	271.05739	143.64970	5.94184	0.2562190	0.23242892	2.6198470	20	4 18.1	22.1
406984 2009 RW_{9}	16.0	X	282.25084	249.46232	192.97778	12.73323	0.0298836	0.18193219	3.0845823	20	10 22.3	20.2
406985 2009 RG_{11}	16.2	X	329.40900	168.02898	189.06443	8.82569	0.0878573	0.17373754	3.1808286	20	8 31.6	20.2
406986 2009 RH_{13}	16.5	X	307.41602	356.31554	22.35814	5.54158	0.1297746	0.17193532	3.2030175	20	8 25.4	20.5
406987 2009 RB_{16}	16.5	X	262.57463	250.81962	187.73182	10.38710	0.0592106	0.17427576	3.1742763	20	9 14.8	21.0
406988 2009 RP_{25}	16.1	X	359.23226	190.85170	186.37579	10.67149	0.0636921	0.18330091	3.0692079	20	11 14.8	20.2
406989 2009 RF_{30}	16.0	X	328.20052	191.29415	201.18997	15.58979	0.1418137	0.18049763	3.1009044	20	10 16.8	19.6
406990 2009 RV_{37}	16.6	X	340.96028	357.06650	12.58208	1.32596	0.1838947	0.18036085	3.1024719	20	10 9.7	19.7
406991 2009 RZ_{37}	16.5	X	352.10981	178.41456	176.81705	5.65615	0.1364763	0.18054011	3.1004180	20	10 10.2	20.0
406992 2009 RT_{40}	16.4	X	293.14552	124.09651	328.39722	7.81957	0.0899591	0.18544241	3.0455332	20	11 8.7	20.4
406993 2009 RV_{42}	15.9	X	290.78819	180.32222	225.36456	7.80818	0.1298167	0.17367061	3.1816457	20	8 29.6	20.1
406994 2009 RD_{45}	15.9	X	38.30290	289.19793	8.45495	10.51499	0.0370792	0.17515208	3.1636798	20	9 23.6	20.2
406995 2009 RN_{46}	16.3	X	178.65643	188.50124	327.24250	2.05172	0.1117795	0.17237028	3.1976269	20	9 11.2	21.2
406996 2009 RU_{47}	16.2	X	33.32101	348.57955	12.18310	10.86158	0.1127549	0.19031594	2.9933163	20	12 15.6	20.5
406997 2009 RS_{49}	15.9	X	105.67822	234.01790	19.38311	6.29541	0.3473049	0.18850759	3.0124290	20	11 11.6	21.4
406998 2009 RW_{50}	16.5	X	44.02653	345.95313	354.68007	1.26854	0.1457941	0.18823273	3.0153608	20	12 9.4	20.6
406999 2009 RR_{53}	15.8	X	154.64487	358.52603	197.78120	11.46439	0.1128172	0.17491635	3.1665215	20	10 6.9	20.9
407000 2009 RO_{57}	16.4	X	284.10856	61.08769	9.95930	15.72427	0.0849768	0.17902912	3.1178383	20	10 2.2	20.5
407001 2009 RF_{58}	16.5	X	33.22772	72.73272	232.56864	6.60226	0.1146264	0.17929769	3.1147241	20	10 4.4	20.7
407002 2009 RS_{58}	15.5	X	47.48282	255.89552	30.67594	20.94152	0.2988466	0.17969227	3.1101628	20	10 27.7	20.0
407003 2009 RF_{59}	15.6	X	288.72153	258.60280	182.01783	9.38439	0.0850303	0.18324884	3.0697892	20	10 23.0	19.6
407004 2009 RH_{62}	16.5	X	356.56087	149.82823	192.65006	7.95652	0.0621310	0.17357020	3.1828727	20	9 23.6	20.7
407005 2009 RT_{65}	16.2	X	76.71669	109.43082	194.22465	8.33045	0.0759300	0.18572129	3.0424837	20	11 24.3	20.7
407006 2009 RS_{72}	15.3	X	177.34646	344.37927	196.05033	19.63044	0.0816678	0.17966902	3.1104311	20	10 12.1	20.0
407007 2009 RT_{73}	16.6	X	353.34260	311.88341	9.28726	11.84585	0.0990473	0.17234159	3.1979818	20	8 28.5	20.7
407008 2009 RD_{74}	16.1	X	289.47089	245.41249	197.16630	12.39620	0.0900236	0.18067128	3.0989171	20	10 24.8	20.1
407009 2009 RZ_{75}	17.3	X	2.02521	308.02044	44.92049	0.81226	0.2183425	0.18268928	3.0760543	20	11 1.7	20.5
407010 2009 SV_{5}	17.4	X	323.91421	288.19314	162.29485	2.14724	0.2397955	0.18953153	3.0015695	20	12 28.8	20.0
407011 2009 SZ_{5}	16.3	X	304.68223	220.39093	182.27643	7.58613	0.0369842	0.17801870	3.1296249	20	9 29.8	20.4
407012 2009 SW_{14}	15.8	X	304.18896	75.69634	330.31588	8.47281	0.0714837	0.18043807	3.1015867	20	9 27.2	20.0
407013 2009 SZ_{14}	18.1	X	47.01129	37.58807	26.12682	38.14774	0.1705676	0.38900072	1.8585280	20	—	—
407014 2009 SP_{15}	16.0	X	43.63964	25.26905	346.65792	11.60934	0.0682259	0.19697978	2.9254204	20	—	—
407015 2009 SL_{20}	16.0	X	26.67630	69.42261	274.12562	9.06069	0.1216658	0.18922943	3.0047632	20	11 16.1	20.1
407016 2009 SZ_{21}	16.2	X	255.94294	142.42505	333.50723	14.07063	0.2474010	0.17520189	3.1630802	20	9 23.0	21.0
407017 2009 SC_{25}	17.6	X	42.99392	14.71346	308.60922	3.96501	0.2130874	0.18871210	3.0102522	20	11 26.1	21.9
407018 2009 SK_{26}	15.8	X	271.91680	247.38069	195.70950	12.14319	0.1486187	0.17687182	3.1431392	20	9 19.5	20.0
407019 2009 SH_{27}	16.1	X	178.20850	343.94005	191.60616	8.14336	0.1165711	0.17937436	3.1138365	20	10 5.5	21.0
407020 2009 SA_{28}	17.0	X	284.97967	34.98818	46.48020	1.92227	0.1486199	0.17975338	3.1094578	20	10 8.6	20.8
407021 2009 SN_{35}	16.5	X	26.95474	10.73346	5.35327	10.27539	0.1048842	0.19054384	2.9909291	20	12 26.5	20.7
407022 2009 SR_{37}	16.3	X	46.52321	13.72390	277.58488	1.42558	0.1843939	0.17903816	3.1177334	20	10 16.4	20.6
407023 2009 SG_{40}	16.7	X	317.23277	53.17734	14.52054	9.67292	0.0713695	0.18396904	3.0617723	20	11 13.9	20.8
407024 2009 SL_{40}	15.8	X	77.79530	282.28766	19.37268	15.45905	0.0951991	0.18636089	3.0355183	20	11 20.3	20.4
407025 2009 SS_{40}	16.7	X	333.05293	44.17292	15.67144	1.80684	0.2108939	0.18492477	3.0512139	20	12 3.4	19.7
407026 2009 SK_{43}	16.3	X	303.49162	209.57798	231.15849	7.46255	0.1385364	0.18195138	3.0843653	20	11 6.7	20.1
407027 2009 SG_{44}	16.0	X	97.81477	27.28953	230.83864	8.75754	0.0377569	0.17780913	3.1320836	20	10 15.9	20.6
407028 2009 SV_{46}	18.1	X	21.50599	42.44542	7.54395	18.00776	0.0807999	0.38181968	1.8817583	20	—	—
407029 2009 SR_{47}	16.2	X	359.36286	13.93995	6.39006	8.31023	0.0872232	0.18377775	3.0638965	20	11 16.8	20.3
407030 2009 ST_{51}	16.4	X	107.08805	54.18836	183.43997	15.01236	0.0418819	0.18408362	3.0605016	20	10 5.4	20.8
407031 2009 SW_{53}	16.3	X	51.85205	232.44903	86.42773	2.90286	0.0870111	0.18543775	3.0455842	20	11 14.4	20.6
407032 2009 ST_{54}	16.9	X	9.91128	358.57509	333.13940	3.09859	0.1876047	0.18248350	3.0783664	20	10 13.5	20.4
407033 2009 SC_{56}	15.7	X	352.13515	147.22538	219.58099	13.09831	0.1509914	0.18054667	3.1003428	20	10 25.0	19.3
407034 2009 SY_{64}	17.2	X	322.67747	213.96423	188.41853	0.47582	0.1861569	0.18382593	3.0633612	20	10 18.7	20.2
407035 2009 SA_{69}	16.2	X	49.50236	158.39458	185.91174	11.69918	0.0953502	0.18876344	3.0097064	20	12 14.2	20.6
407036 2009 SM_{72}	16.8	X	7.67571	305.37238	357.06962	11.73768	0.1068286	0.17344854	3.1843610	20	8 26.2	20.8
407037 2009 SQ_{72}	16.9	X	5.81691	222.99480	195.05275	2.86094	0.1285742	0.19758104	2.9194825	20	—	—
407038 2009 SL_{81}	16.1	X	315.42861	60.49862	353.35484	9.50335	0.0732228	0.18629556	3.0362280	20	10 24.4	20.1
407039 2009 SX_{94}	16.9	X	26.12391	313.95352	2.93839	8.87547	0.1326000	0.18402299	3.0611738	20	10 12.7	20.8
407040 2009 SD_{98}	16.1	X	67.41414	260.12925	8.84161	15.03914	0.2682431	0.18042850	3.1016964	20	10 21.5	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407041 2009 SQ_{99}	16.1	X	291.89598	78.51063	348.67386	15.33935	0.2424775	0.17651302	3.1473972	20	9 14.7	19.9
407042 2009 SF_{102}	16.3	X	291.69713	31.50514	30.15127	6.72581	0.1424679	0.17814435	3.1281532	20	9 25.2	20.3
407043 2009 SM_{107}	16.9	X	32.78481	6.42739	351.53248	3.15231	0.2489900	0.18966159	3.0001972	20	—	—
407044 2009 SM_{110}	15.7	X	30.29074	145.35700	166.28728	9.67102	0.0949029	0.17871021	3.1215465	20	10 9.5	19.8
407045 2009 SU_{110}	16.5	X	301.21644	28.08142	21.43783	3.61990	0.1748447	0.17674683	3.1446208	20	9 18.8	20.1
407046 2009 SG_{111}	16.0	X	68.14092	69.70970	215.99840	9.97727	0.0307210	0.18187654	3.0852114	20	10 14.6	20.4
407047 2009 SP_{111}	16.0	X	292.12893	196.41853	219.83552	8.50587	0.0443692	0.17845695	3.1244992	20	9 26.9	20.4
407048 2009 SM_{113}	16.7	X	1.47246	115.13554	260.76345	3.90081	0.1691026	0.18660458	3.0328751	20	11 25.9	20.3
407049 2009 SR_{123}	17.1	X	322.73016	54.81488	343.66918	8.49048	0.1391099	0.17980046	3.1089150	20	10 11.6	20.8
407050 2009 SF_{132}	16.7	X	337.74265	52.52128	28.44641	12.85860	0.1903435	0.19086851	2.9875363	20	—	—
407051 2009 SL_{133}	16.3	X	11.52330	151.92260	172.94012	8.35177	0.0310463	0.17416322	3.1756436	20	9 21.1	20.5
407052 2009 SZ_{133}	16.2	X	307.67171	27.96362	44.46683	10.16201	0.0847042	0.18281642	3.0746281	20	11 7.4	19.9
407053 2009 SY_{136}	16.4	X	258.94092	259.85305	211.82975	10.05886	0.0388412	0.17980055	3.1089139	20	10 26.2	20.8
407054 2009 SR_{137}	17.4	X	344.90322	325.67341	30.16997	0.80547	0.1801783	0.17585149	3.1552857	20	9 27.6	20.9
407055 2009 SR_{138}	15.5	X	343.29387	350.50745	29.23715	10.24097	0.0592604	0.17909927	3.1170242	20	10 23.4	19.5
407056 2009 SY_{143}	16.3	X	71.67454	304.48616	18.95776	5.76967	0.1726336	0.19230067	2.9726848	20	12 23.3	20.9
407057 2009 SA_{145}	16.7	X	159.95658	166.08472	168.55337	9.22213	0.0259114	0.21914741	2.7246569	20	1 5.3	20.6
407058 2009 SF_{151}	15.7	X	281.01351	79.63060	357.77459	9.83957	0.1112383	0.17972756	3.1097556	20	10 1.1	19.7
407059 2009 SP_{152}	16.5	X	145.47855	222.23883	337.83135	10.72713	0.1373415	0.18540184	3.0459775	20	10 1.1	21.5
407060 2009 SK_{154}	15.3	X	307.09087	35.78775	11.03220	22.88378	0.1733015	0.17747504	3.1360130	20	9 27.5	19.0
407061 2009 SJ_{157}	17.1	X	291.38770	32.32626	21.80905	1.01878	0.1680033	0.17320458	3.1873503	20	9 8.7	20.9
407062 2009 SV_{164}	16.1	X	341.27831	225.17700	197.22130	10.96930	0.1501089	0.18653715	3.0336059	20	12 19.9	19.8
407063 2009 SB_{165}	16.6	X	8.51129	235.54916	126.59145	2.55859	0.1475707	0.18324614	3.0698194	20	11 17.1	20.2
407064 2009 SO_{166}	16.4	X	300.69423	256.43160	198.34346	8.86126	0.0801216	0.18438343	3.0571832	20	11 27.2	20.4
407065 2009 SC_{167}	16.9	X	304.02379	87.92940	1.91846	4.89383	0.2445462	0.18479546	3.0526372	20	11 8.0	19.9
407066 2009 SA_{169}	15.2	X	251.78922	97.68461	2.21801	10.25726	0.0695575	0.17905044	3.1175908	20	9 27.9	19.7
407067 2009 SF_{169}	16.5	X	155.02191	188.28013	141.50570	6.46778	0.0521393	0.21527244	2.7572560	20	—	—
407068 2009 SF_{173}	16.2	X	111.88330	271.40393	346.88560	9.68541	0.0862258	0.18744519	3.0238008	20	11 4.6	21.0
407069 2009 SV_{183}	16.5	X	305.06703	68.30958	351.87326	9.22813	0.1621328	0.17851306	3.1238443	20	10 7.9	20.4
407070 2009 SH_{192}	16.3	X	24.67805	349.05902	329.16449	3.94465	0.1442885	0.18033036	3.1028217	20	10 13.1	20.2
407071 2009 SK_{192}	16.6	X	81.22370	24.30607	267.40531	2.52440	0.1359925	0.18861833	3.0112499	20	11 20.8	21.1
407072 2009 SM_{194}	16.8	X	324.65387	35.08744	350.35827	4.43344	0.2035885	0.17787639	3.1312940	20	9 25.9	20.1
407073 2009 SV_{197}	16.3	X	47.51968	345.38681	347.70051	8.78625	0.1194681	0.18795218	3.0183607	20	11 28.9	20.6
407074 2009 SY_{197}	16.3	X	46.55563	280.98563	2.14194	14.85482	0.1979185	0.17807330	3.1289852	20	10 6.5	20.6
407075 2009 SV_{198}	17.1	X	37.43127	21.41302	329.85514	4.97839	0.1171128	0.18890458	3.0082071	20	12 10.0	21.2
407076 2009 SV_{205}	16.6	X	65.91645	84.33970	203.19990	4.04510	0.1167870	0.17978067	3.1091432	20	10 26.9	21.1
407077 2009 SM_{207}	15.5	X	48.42535	336.40091	332.42695	8.89516	0.0319781	0.18167773	3.0874617	20	10 15.8	20.0
407078 2009 SN_{208}	16.4	X	70.34049	104.82723	205.11967	8.52808	0.0201882	0.18613484	3.0379756	20	11 17.2	20.6
407079 2009 SX_{211}	17.1	X	32.03694	358.84141	292.28880	0.16242	0.1781320	0.17529263	3.1619885	20	9 24.9	21.1
407080 2009 SE_{216}	16.7	X	46.98370	293.71761	52.18273	0.45850	0.0768689	0.19256051	2.9700099	20	12 10.9	20.7
407081 2009 SH_{217}	16.4	X	43.18375	3.66972	15.39015	11.33552	0.0929585	0.19804184	2.9149520	20	—	—
407082 2009 SL_{222}	16.6	X	33.22316	24.37758	348.27817	10.38775	0.1204747	0.19500800	2.9451071	20	—	—
407083 2009 ST_{228}	15.9	X	314.98565	18.00699	352.02291	12.20449	0.1266102	0.17395732	3.1781489	20	8 27.2	19.8
407084 2009 SV_{234}	15.6	X	21.08188	354.39538	359.22788	19.39040	0.2530681	0.18427734	3.0583564	20	12 6.7	19.9
407085 2009 SZ_{244}	16.0	X	318.62625	223.22085	199.28986	15.88941	0.0891278	0.18217576	3.0818322	20	11 12.5	19.9
407086 2009 SO_{254}	16.5	X	4.65913	314.90756	86.61634	2.89081	0.1929261	0.18973768	2.9993950	20	—	—
407087 2009 ST_{254}	16.5	X	113.05455	91.45215	186.13148	10.90097	0.0757577	0.18867643	3.0106316	20	12 2.9	21.2
407088 2009 SG_{255}	16.0	X	32.34181	318.92710	57.56463	16.53233	0.1335125	0.19851979	2.9102715	20	—	—
407089 2009 SH_{259}	15.9	X	70.09891	258.31672	10.61426	12.42809	0.1159806	0.18260228	3.0770313	20	10 8.4	20.2
407090 2009 SZ_{259}	17.1	X	24.41968	351.69806	52.70273	3.31021	0.0562550	0.20089590	2.8872784	20	—	—
407091 2009 SF_{264}	16.2	X	353.24653	319.31418	48.80555	6.82897	0.1143423	0.18205773	3.0831640	20	10 27.9	20.0
407092 2009 SF_{268}	16.0	X	32.60958	316.43125	5.62029	10.77093	0.0545107	0.18178841	3.0862085	20	10 16.8	20.3
407093 2009 SN_{273}	16.3	X	82.86569	116.87332	160.98832	1.64754	0.1709624	0.18705024	3.0280558	20	11 10.3	20.9
407094 2009 SB_{274}	16.3	X	17.77277	279.97233	19.15390	12.07821	0.1154243	0.17370420	3.1812356	20	9 9.2	20.4
407095 2009 SB_{275}	16.1	X	153.75451	63.45129	181.48626	11.11369	0.0521894	0.19240318	2.9716287	20	12 7.1	20.7
407096 2009 SE_{276}	16.3	X	112.44397	208.91579	70.76165	3.01205	0.1377660	0.19303554	2.9651354	20	12 7.9	20.8
407097 2009 SW_{280}	16.1	X	9.44266	212.61833	172.83823	10.50372	0.1050248	0.18970613	2.9997276	20	12 14.4	20.1
407098 2009 SY_{280}	16.8	X	286.55327	309.07902	129.53884	4.50703	0.1634835	0.17911896	3.1167958	20	10 6.5	20.8
407099 2009 SY_{282}	16.2	X	43.76635	232.86529	50.27915	8.61498	0.0397692	0.17321808	3.1871848	20	9 15.9	20.7
407100 2009 SY_{283}	16.7	X	68.08364	165.03286	134.24296	5.06375	0.2021212	0.18767814	3.0212981	20	11 25.0	21.3
407101 2009 SL_{284}	16.2	X	20.68488	62.51949	250.51111	15.56447	0.2091546	0.17732665	3.1377623	20	10 4.6	20.3
407102 2009 SO_{285}	16.5	X	225.68679	289.27555	186.33326	9.74436	0.1116269	0.17685072	3.1433893	20	9 10.1	21.2
407103 2009 SF_{287}	16.0	X	10.42720	359.34455	357.78873	11.50331	0.1367632	0.18262448	3.0767820	20	11 7.2	19.9
407104 2009 SK_{287}	16.5	X	2.55879	66.21279	291.08176	4.05917	0.1372085	0.18068428	3.0987685	20	10 27.9	20.4
407105 2009 SJ_{288}	16.2	X	358.41354	162.85224	225.36792	7.42390	0.0751189	0.18631373	3.0360305	20	11 27.6	20.0
407106 2009 SY_{288}	16.9	X	262.74023	24.49795	64.31022	4.17849	0.1489265	0.17388608	3.1790170	20	9 18.1	21.3
407107 2009 SR_{289}	16.1	X	185.76233	324.64546	184.59509	10.00625	0.0804468	0.17013881	3.2255253	20	9 10.8	21.0
407108 2009 SS_{292}	16.2	X	215.28360	258.20580	219.10972	9.41194	0.0389718	0.17282543	3.1920104	20	9 5.7	21.0
407109 2009 SS_{294}	15.8	X	304.59796	235.34834	183.81061	21.27254	0.1499710	0.18366048	3.0652007	20	10 12.4	19.4
407110 2009 SY_{297}	16.8	X	359.82070	352.18471	41.20511	10.30424	0.1024939	0.18881571	3.0091508	20	12 7.7	20.6
407111 2009 SN_{299}	15.6	X	49.91050	189.87796	105.36131	11.99291	0.2051418	0.17579121	3.1560070	20	11 2.5	20.2
407112 2009 SX_{300}	16.8	X	83.21889	241.15349	45.22904	1.44998	0.2019926	0.18978698	2.9988755	20	11 23.4	21.6
407113 2009 SM_{304}	15.4	X	202.76336	160.77663	0.08544	9.90529	0.0708203	0.18435457	3.0575022	20	10 14.4	20.0
407114 2009 SZ_{304}	16.5	X	314.05984	46.17794	354.98117	10.71113	0.1080333	0.18175487	3.0865881	20	10 3.9	20.4
407115 2009 SA_{307}	15.9	X	239.88543	303.27124	173.65911	9.81995	0.0138898	0.17927411	3.1149973	20	10 14.2	20.3
407116 2009 SC_{308}	16.6	X	315.93839	55.56881	331.48723	5.85529	0.0548923	0.17905614	3.1175247	20	9 22.2	20.7
407117 2009 SL_{308}	16.7	X	281.84150	78.44210	353.12931	4.42730	0.1362308	0.17931269	3.1145505	20	9 22.1	20.7
407118 2009 SE_{317}	16.5	X	355.99503	257.95655	131.92721	3.43877	0.2289904	0.18840535	3.0135187	20	12 13.3	19.7
407119 2009 SY_{317}	16.4	X	43.22003	93.48574	194.08579	10.21449	0.1212796	0.17780004	3.1321904	20	9 27.8	20.7
407120 2009 SO_{326}	16.2	X	303.47463	35.21543	65.31988	12.98210	0.3307134	0.17686480	3.1432224	20	11 10.4	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407121 2009 SW_{326}	15.6	X	312.72115	76.71853	315.32332	9.97903	0.1178855	0.17512624	3.1639910	20	9 15.7	19.7
407122 2009 SD_{327}	15.6	X	297.45489	75.86567	347.01014	15.71211	0.1831353	0.17650879	3.1474475	20	9 24.5	19.5
407123 2009 SH_{328}	16.2	X	149.05503	85.99893	205.20879	14.35750	0.1437049	0.20306343	2.8666955	20	—	—
407124 2009 SA_{329}	16.2	X	106.98279	338.62681	22.81810	10.10345	0.1852810	0.21442345	2.7645293	20	—	—
407125 2009 SO_{334}	15.5	X	283.12478	223.37193	240.26023	8.79381	0.0425524	0.19016201	2.9949314	20	11 17.7	19.3
407126 2009 SH_{340}	16.6	X	238.15578	35.91340	41.94702	2.20322	0.0412920	0.16881661	3.2423454	20	8 18.6	21.3
407127 2009 SO_{340}	16.4	X	37.58912	118.40323	208.13891	9.83798	0.0711763	0.18188900	3.0850705	20	11 2.9	20.6
407128 2009 SC_{342}	16.3	X	93.02174	51.18945	213.99003	7.35224	0.0780024	0.18120583	3.0928197	20	10 25.5	20.9
407129 2009 SL_{350}	15.9	X	283.07049	58.87543	32.57115	18.63444	0.2248357	0.17437850	3.1730293	20	10 9.9	19.9
407130 2009 SO_{350}	16.9	X	347.04876	331.07106	84.01238	4.19077	0.1634620	0.18848386	3.0126818	20	12 22.4	20.3
407131 2009 SH_{355}	17.0	X	324.69234	7.19374	28.14227	1.02966	0.1686261	0.17569037	3.1572145	20	10 11.8	20.4
407132 2009 SH_{357}	16.5	X	279.34505	241.52934	210.58051	4.08706	0.1069925	0.17748827	3.1358573	20	10 18.6	20.4
407133 2009 SF_{359}	16.2	X	19.53432	122.96574	215.38451	9.85562	0.1454483	0.17942302	3.1132734	20	11 1.9	20.0
407134 2009 SF_{362}	16.7	X	4.56776	340.06194	33.93461	2.48107	0.0734020	0.18261891	3.0768445	20	11 16.8	20.8
407135 2009 SJ_{362}	16.1	X	44.86694	267.63756	34.25917	15.19658	0.1140812	0.17472825	3.1687937	20	10 18.7	20.3
407136 2009 SD_{363}	16.7	X	342.53271	40.66669	333.67647	6.93340	0.2149261	0.18165099	3.0877647	20	10 17.6	20.0
407137 2009 SH_{363}	15.5	X	217.06278	94.21541	22.52137	22.17987	0.0455449	0.17054817	3.2203618	20	9 18.6	20.4
407138 2009 SW_{366}	16.2	X	327.09693	19.60386	34.19465	10.03161	0.0837937	0.18520313	3.0481559	20	11 12.2	20.0
407139 2009 TD_{2}	16.9	X	348.04554	75.21190	327.58461	3.33661	0.2765121	0.18456553	3.0551719	20	12 19.0	19.7
407140 2009 TN_{4}	15.9	X	288.55413	49.80056	47.48696	12.18745	0.0978831	0.18335690	3.0685830	20	11 9.8	19.7
407141 2009 TG_{6}	16.7	X	14.63073	340.86804	45.60575	2.04599	0.1703264	0.19020716	2.9944574	20	12 31.5	20.4
407142 2009 TO_{10}	15.7	X	43.87989	293.84242	51.70554	13.07069	0.1723393	0.19088452	2.9873693	20	12 18.5	20.0
407143 2009 TJ_{11}	15.5	X	50.10459	33.89548	256.01484	8.41616	0.0162883	0.17861389	3.1226686	20	9 21.5	20.0
407144 2009 TB_{15}	16.2	X	85.06893	343.22192	36.52686	9.81851	0.1649001	0.20884218	2.8135668	20	—	—
407145 2009 TP_{28}	16.4	X	175.66089	331.02805	189.30738	9.16011	0.0392095	0.17530380	3.1618542	20	9 15.6	21.1
407146 2009 TK_{32}	16.2	X	336.30244	233.69645	194.75916	3.98667	0.2857722	0.18561912	3.0436000	20	12 28.5	18.8
407147 2009 TL_{34}	16.7	X	20.27902	278.19537	136.22168	6.95128	0.2219277	0.19635528	2.9316199	20	—	—
407148 2009 TK_{35}	16.5	X	19.96226	157.91279	211.77541	4.13808	0.2507091	0.18665571	3.0323212	20	12 28.7	20.3
407149 2009 TE_{36}	15.9	X	342.34220	3.61146	45.73218	10.84134	0.1511249	0.18364851	3.0653338	20	12 2.7	19.4
407150 2009 TW_{38}	16.3	X	13.58482	241.91908	133.83473	11.23049	0.2296585	0.18737683	3.0245362	20	12 24.8	20.1
407151 2009 TD_{39}	16.0	X	23.84081	210.64560	150.92370	14.69441	0.2054785	0.18544782	3.0454740	20	12 18.5	20.2
407152 2009 TF_{41}	15.6	X	142.87518	231.44559	340.08630	10.59921	0.0425277	0.17967058	3.1104131	20	10 8.9	20.2
407153 2009 TW_{44}	15.9	X	339.87331	269.57541	137.58883	15.67777	0.2287377	0.18118458	3.0930615	20	12 4.3	19.3
407154 2009 UH_{2}	15.9	X	105.23286	259.41294	20.50146	11.77608	0.1545186	0.19050002	2.9913876	20	11 29.8	20.8
407155 2009 UY_{4}	16.3	X	15.25194	231.94472	130.65609	4.92093	0.1521235	0.18555882	3.0442594	20	11 29.5	20.1
407156 2009 UP_{6}	17.1	X	324.66931	234.00459	157.22053	1.49975	0.1683937	0.18008598	3.1056281	20	10 7.7	20.6
407157 2009 UG_{7}	17.1	X	327.29881	202.43092	159.56044	1.70637	0.1759230	0.17459652	3.1703873	20	8 31.4	20.4
407158 2009 UY_{7}	16.7	X	266.75676	0.99624	121.00074	3.49061	0.0354139	0.18780934	3.0198910	20	11 20.7	20.8
407159 2009 UQ_{18}	16.6	X	71.14194	161.84214	166.32353	6.90403	0.2344262	0.19494167	2.9457752	20	—	—
407160 2009 UX_{21}	15.5	X	270.53463	2.44846	53.23666	14.41531	0.0397814	0.16975616	3.2303706	20	9 7.6	20.3
407161 2009 UM_{25}	16.3	X	332.68148	191.62110	219.63048	8.36592	0.1944072	0.18029566	3.1032197	20	11 19.6	19.4
407162 2009 UM_{26}	15.3	X	301.07840	346.31705	52.83861	15.90147	0.0722781	0.16989862	3.2285646	20	9 24.2	19.8
407163 2009 UT_{26}	15.1	X	331.48731	343.04572	53.09727	18.34997	0.1829789	0.17746349	3.1361491	20	10 30.1	18.5
407164 2009 UK_{29}	16.4	X	335.77903	185.43628	214.92121	2.88419	0.2077856	0.18016757	3.1046904	20	11 11.1	19.4
407165 2009 UN_{30}	16.3	X	285.90518	23.79121	43.35231	15.28295	0.2514080	0.17163943	3.2066977	20	9 12.4	20.6
407166 2009 UR_{34}	16.7	X	35.50421	149.30580	181.55780	14.86169	0.1083417	0.18177067	3.0864093	20	11 12.6	21.0
407167 2009 UA_{37}	16.0	X	271.66223	60.59870	40.07009	17.21936	0.0690898	0.17790146	3.1309998	20	10 25.9	20.3
407168 2009 UH_{37}	15.6	X	184.33375	120.64809	54.13467	13.25196	0.0710741	0.17183363	3.2042811	20	10 16.3	20.5
407169 2009 UU_{42}	16.2	X	87.10881	74.72701	204.33234	3.92140	0.1122221	0.18235660	3.0797944	20	11 9.1	20.7
407170 2009 UU_{46}	15.9	X	109.16560	215.79096	49.18252	12.24225	0.0406302	0.17742580	3.1365932	20	11 8.3	20.3
407171 2009 UC_{50}	16.7	X	283.26406	354.73841	85.77740	2.17138	0.1657686	0.17621650	3.1509269	20	10 2.3	20.7
407172 2009 UW_{50}	16.8	X	3.65303	99.46959	288.76979	0.83954	0.2102015	0.18646566	3.0343812	20	12 21.2	20.2
407173 2009 UJ_{59}	15.9	X	79.75525	235.82602	33.59421	9.38555	0.0607869	0.17369079	3.1813994	20	10 13.7	20.4
407174 2009 UP_{59}	16.0	X	356.81530	272.28432	76.96836	11.60984	0.0520586	0.17539170	3.1607977	20	10 9.3	20.4
407175 2009 UY_{61}	16.6	X	5.68796	1.08905	36.21080	10.16906	0.0692827	0.19194472	2.9763587	20	12 18.8	20.6
407176 2009 UD_{62}	16.3	X	299.49073	9.80708	38.00721	10.68022	0.0310632	0.17785656	3.1315267	20	10 3.1	20.6
407177 2009 UW_{62}	16.4	X	45.06668	104.02825	187.68806	11.63605	0.0805182	0.17503295	3.1651151	20	9 29.8	20.6
407178 2009 UE_{63}	16.6	X	300.21974	32.87743	49.85172	9.28744	0.0217832	0.18430679	3.0580306	20	11 14.7	20.8
407179 2009 UQ_{67}	16.0	X	297.49271	12.64035	53.41683	10.13660	0.1418959	0.17779310	3.1322718	20	10 11.8	19.9
407180 2009 UN_{70}	16.7	X	51.32435	228.07612	141.01693	6.33573	0.0830779	0.19522849	2.9428893	20	—	—
407181 2009 UR_{81}	16.2	X	240.68228	84.57805	35.39022	16.17655	0.0755013	0.17445714	3.1720757	20	10 11.6	20.7
407182 2009 UB_{83}	16.5	X	335.55840	222.26679	151.71992	1.83425	0.1564415	0.17291196	3.1909454	20	10 3.8	20.1
407183 2009 UN_{85}	16.2	X	45.54442	98.77574	214.09349	7.32247	0.0407991	0.17295951	3.1903604	20	10 20.5	20.5
407184 2009 UR_{86}	16.5	X	344.60673	358.42652	10.99595	7.05076	0.2618565	0.17668744	3.1453255	20	10 18.4	19.2
407185 2009 UV_{86}	16.2	X	38.39067	66.01624	268.71071	3.10396	0.1911570	0.18403560	3.0610340	20	11 30.8	20.3
407186 2009 UJ_{94}	16.3	X	9.14771	264.06376	103.03868	2.46001	0.2331652	0.18393174	3.0621863	20	12 5.9	19.9
407187 2009 UM_{94}	16.1	X	58.24438	263.21298	48.90843	14.83059	0.1680659	0.18403391	3.0610527	20	11 22.6	20.6
407188 2009 UR_{97}	16.4	X	320.22770	270.81967	153.71740	1.91881	0.2069149	0.18029789	3.1031942	20	11 11.7	19.5
407189 2009 US_{98}	16.7	X	322.22877	302.34224	134.37512	2.15182	0.1978325	0.18272914	3.0756070	20	12 3.3	19.8
407190 2009 UV_{115}	15.7	X	162.58775	128.96599	46.33883	4.68434	0.0905756	0.17390281	3.1788130	20	9 21.7	20.6
407191 2009 UY_{116}	15.6	X	346.44891	134.25923	248.36648	8.80857	0.0943199	0.17999682	3.1066536	20	10 31.9	19.5
407192 2009 US_{117}	16.6	X	21.48935	145.91712	187.29885	8.95995	0.0650466	0.17704071	3.1411400	20	10 19.6	20.7
407193 2009 UH_{118}	16.3	X	338.33132	303.24359	30.12457	4.55878	0.1041970	0.16932660	3.2358317	20	8 17.2	20.3
407194 2009 UW_{118}	16.1	X	41.95281	87.65083	203.90191	16.02148	0.1216924	0.17672821	3.1448418	20	9 30.1	20.3
407195 2009 UA_{121}	15.5	X	12.85896	136.65600	222.96069	14.85497	0.0807059	0.18079684	3.0974822	20	11 11.4	19.5
407196 2009 UG_{122}	16.1	X	36.13222	160.35758	192.77736	9.67666	0.0174348	0.18506029	3.0497242	20	11 27.6	20.4
407197 2009 UX_{129}	16.0	X	298.31815	133.72823	305.85896	9.10880	0.2104590	0.17691299	3.1426516	20	10 12.8	19.8
407198 2009 UG_{132}	15.6	X	335.62141	130.81265	283.73337	8.42165	0.0863093	0.18485791	3.0519496	20	11 26.4	19.6
407199 2009 UW_{136}	16.3	X	305.90085	276.21952	159.97115	4.27728	0.2253982	0.17803789	3.1294001	20	10 27.5	19.7
407200 2009 UF_{137}	15.3	X	274.29572	156.96321	286.45367	11.48118	0.1565966	0.17085100	3.2165554	20	9 16.2	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407201 2009 UU_{142}	16.7	X	343.29423	178.00265	220.48486	4.07016	0.1001567	0.18008885	3.1055951	20	11 18.2	20.4
407202 2009 UR_{143}	16.5	X	282.17695	213.70759	229.01687	3.92659	0.1349957	0.17298452	3.1900529	20	10 5.0	20.7
407203 2009 UU_{149}	16.0	X	107.44099	352.36603	281.99877	8.35574	0.0642827	0.18049701	3.1009115	20	11 18.4	20.6
407204 2009 UQ_{150}	17.0	X	10.65764	286.22144	66.05903	1.98965	0.1851504	0.17851533	3.1238178	20	11 10.9	20.6
407205 2009 UY_{150}	16.2	X	353.77479	120.76182	229.07833	11.16956	0.1331509	0.17279733	3.1923564	20	9 29.7	20.1
407206 2009 UD_{153}	15.8	X	312.99423	5.13814	99.27502	6.75046	0.1492368	0.17267893	3.1938155	20	12 19.9	19.4
407207 2009 UK_{154}	16.2	X	321.48902	62.96262	26.64607	11.38500	0.1732934	0.18551677	3.0447193	20	12 19.3	19.7
407208 2009 VR_{1}	16.5	X	10.55855	247.45205	109.76127	2.64004	0.1620033	0.17775720	3.1326936	20	11 14.4	20.3
407209 2009 VA_{2}	16.1	X	323.60527	80.83595	334.20645	14.62562	0.2427204	0.17929104	3.1148012	20	10 26.1	19.5
407210 2009 VS_{2}	15.6	X	339.94537	125.28520	274.67439	20.93231	0.1106799	0.18180791	3.0859878	20	11 12.9	19.7
407211 2009 VF_{8}	15.0	X	347.71803	157.60921	237.00394	26.90301	0.1210210	0.18020497	3.1042608	20	11 21.1	18.7
407212 2009 VD_{16}	16.8	X	48.48199	99.73934	278.41941	0.72048	0.1930912	0.19106781	2.9854584	20	—	—
407213 2009 VY_{18}	16.2	X	333.42667	337.98663	34.13887	8.09047	0.1914114	0.17262018	3.1945401	20	9 28.4	19.6
407214 2009 VV_{39}	16.2	X	356.44778	290.36788	57.11232	13.29916	0.2097398	0.17392314	3.1785652	20	10 16.2	19.7
407215 2009 VV_{42}	16.0	X	335.10002	321.31089	60.36525	5.31430	0.1220113	0.17581932	3.1556705	20	10 15.4	19.8
407216 2009 VP_{63}	16.1	X	62.74536	248.26204	74.71034	10.18450	0.2786871	0.18427192	3.0584164	20	12 23.5	21.0
407217 2009 VO_{73}	16.5	X	215.73904	79.71973	52.50622	2.08775	0.0699599	0.17191544	3.2032645	20	9 25.5	21.2
407218 2009 VA_{74}	16.7	X	345.06237	181.29915	216.60493	1.87745	0.1225909	0.18290016	3.0736894	20	11 22.1	20.3
407219 2009 VW_{74}	15.8	X	99.76433	248.78221	26.77816	12.85712	0.0751402	0.18559503	3.0438634	20	11 12.3	20.4
407220 2009 VM_{78}	16.3	X	7.90924	287.83579	111.54281	8.59303	0.2272132	0.18732282	3.0251176	20	—	—
407221 2009 VQ_{85}	16.4	X	296.67608	262.89361	141.22495	2.43229	0.0922573	0.16774789	3.2561020	20	9 13.4	20.6
407222 2009 VU_{87}	16.4	X	320.40532	79.08614	349.48486	4.56134	0.1538935	0.17760782	3.1344498	20	11 16.6	20.1
407223 2009 VY_{92}	16.2	X	1.63789	337.08649	46.65692	10.41632	0.1127633	0.18338285	3.0682935	20	11 28.0	20.0
407224 2009 VB_{93}	16.1	X	0.06723	165.68190	228.85960	15.43538	0.0988130	0.18272302	3.0756757	20	12 8.6	20.1
407225 2009 VZ_{95}	15.9	X	255.04604	45.56625	60.05303	16.80798	0.0543550	0.17232736	3.1981578	20	10 17.4	20.6
407226 2009 VQ_{106}	16.5	X	14.98060	245.62736	152.53453	4.61885	0.1505189	0.18904993	3.0066649	20	—	—
407227 2009 WH_{9}	16.0	X	333.66581	329.12963	93.81534	3.20331	0.1863151	0.18249585	3.0782276	20	12 7.5	19.0
407228 2009 WY_{10}	15.8	X	350.37952	259.70640	106.02219	6.47767	0.1321180	0.17464280	3.1698273	20	10 21.7	19.6
407229 2009 WS_{19}	15.7	X	326.75864	188.41702	216.61039	12.98374	0.0305205	0.17608233	3.1525274	20	10 31.8	19.9
407230 2009 WZ_{24}	16.0	X	335.61013	298.08568	110.79225	5.82952	0.1726489	0.17900002	3.1181762	20	11 22.2	19.4
407231 2009 WA_{25}	16.6	X	330.29737	128.25336	305.97348	1.82918	0.2070447	0.18310428	3.0714047	20	12 16.6	19.8
407232 2009 WL_{35}	16.9	X	338.00501	198.85642	196.37972	3.55990	0.1401329	0.18208626	3.0828420	20	11 7.7	20.3
407233 2009 WU_{43}	15.1	X	250.33674	125.76832	295.23602	8.63915	0.0884895	0.14680372	3.5588637	20	8 2.2	20.2
407234 2009 WM_{51}	15.6	X	103.35685	249.78959	72.17916	15.91892	0.1050146	0.18772515	3.0207938	20	—	—
407235 2009 WO_{53}	15.6	X	339.64807	150.79830	266.90400	10.44252	0.1805413	0.18414415	3.0598310	20	12 12.3	18.9
407236 2009 WR_{69}	15.9	X	347.56082	27.98981	22.03806	11.88315	0.0998452	0.18403917	3.0609944	20	12 8.1	19.9
407237 2009 WW_{81}	16.8	X	296.44867	313.42074	118.58520	8.67553	0.3076738	0.17358915	3.1826411	20	9 22.2	20.5
407238 2009 WY_{84}	16.0	X	27.70099	302.06352	19.23689	8.35595	0.2038054	0.17392965	3.1784860	20	10 29.1	19.9
407239 2009 WZ_{95}	16.6	X	300.37955	297.51496	130.36163	1.80030	0.1826424	0.17438282	3.1729769	20	10 10.0	20.2
407240 2009 WP_{98}	15.8	X	338.18281	12.11477	29.61699	9.06589	0.0649611	0.17973641	3.1096535	20	11 11.7	19.8
407241 2009 WO_{99}	16.1	X	32.19094	276.26149	46.07425	9.66673	0.0784962	0.17479586	3.1679765	20	10 22.4	20.3
407242 2009 WD_{100}	15.9	X	18.45131	352.59324	70.29879	10.10533	0.1006611	0.19003795	2.9962346	20	—	—
407243 Krapivin	17.1	X	34.09285	161.17954	173.69020	1.15277	0.1693812	0.18086089	3.0967509	20	11 21.9	21.2
407244 2009 WN_{104}	16.3	X	289.65311	223.38979	197.88712	10.47178	0.2819414	0.16998809	3.2274317	20	8 24.7	20.5
407245 2009 WL_{157}	16.1	X	254.69457	334.06937	126.69274	5.36709	0.0727836	0.16889961	3.2412830	20	10 3.2	20.7
407246 2009 WK_{164}	16.9	X	6.02730	34.10501	22.30502	1.29961	0.1710092	0.18689897	3.0296894	20	—	—
407247 2009 WE_{168}	16.4	X	20.62550	329.15460	80.75847	4.55460	0.1174896	0.19016171	2.9949345	20	—	—
407248 2009 WB_{185}	16.0	X	335.00227	154.16136	247.65322	9.40634	0.1481924	0.17620817	3.1510262	20	11 7.8	19.5
407249 2009 WG_{187}	16.8	X	333.93675	132.77071	282.33128	1.54057	0.1755168	0.18097203	3.0954829	20	11 26.3	20.2
407250 2009 WK_{200}	16.2	X	286.26575	288.64239	155.86851	6.25887	0.1818404	0.17316289	3.1878619	20	10 9.7	20.2
407251 2009 WD_{217}	15.9	X	0.38049	251.07051	47.65072	7.12873	0.0415477	0.15913404	3.3725676	20	8 4.8	20.5
407252 2009 WA_{221}	16.2	X	288.96733	222.96649	196.13801	5.05041	0.1014215	0.17066452	3.2188980	20	9 19.3	20.3
407253 2009 WK_{234}	16.1	X	262.29463	255.56522	213.17792	8.67363	0.0688041	0.17877444	3.1207988	20	10 22.2	20.3
407254 2009 WC_{261}	16.1	X	348.23419	343.30645	53.85296	18.15639	0.2832673	0.18066618	3.0989755	20	12 8.2	19.1
407255 2010 AB_{57}	18.0	X	331.69189	121.13503	290.96690	18.85612	0.1350129	0.36101562	1.9533739	20	—	—
407256 2010 AG_{72}	15.3	X	351.25256	246.82767	132.41442	27.47399	0.2513290	0.16978216	3.2300408	20	11 24.7	19.3
407257 2010 AX_{104}	16.6	X	25.24105	192.31542	163.90934	9.08231	0.0832749	0.18544742	3.0454784	20	11 27.0	20.8
407258 2010 AU_{117}	16.2	X	278.41297	85.67827	5.61033	24.51103	0.2734281	0.17445653	3.1720831	20	9 23.4	20.3
407259 2010 AS_{137}	16.2	X	0.71207	290.89094	101.49455	7.46950	0.1110150	0.18677873	3.0309895	20	12 10.0	19.9
407260 2010 BP_{1}	15.7	X	235.95889	132.56502	309.80410	8.81690	0.0757243	0.14682230	3.5585633	20	8 13.4	20.9
407261 2010 BQ_{3}	18.1	X	296.50535	275.01697	293.63813	5.36590	0.1098434	0.29427568	2.2385483	20	—	—
407262 2010 BX_{37}	15.5	X	51.51873	224.85926	61.26849	17.54771	0.2093390	0.17692577	3.1425002	20	10 25.9	20.0
407263 2010 BM_{55}	15.3	X	5.46058	75.92915	300.95120	25.34800	0.2082504	0.18467922	3.0539180	20	12 10.4	19.3
407264 2010 BM_{61}	17.0	X	262.32859	62.97888	235.36850	20.18839	0.2720548	0.28201110	2.3029893	20	2 12.9	21.3
407265 2010 CN_{35}	18.5	X	326.13507	197.32289	60.78142	2.63035	0.1924829	0.29971073	2.2113718	20	3 25.5	20.4
407266 2010 CB_{43}	17.6	X	329.84599	50.17501	152.17507	24.19994	0.2278145	0.28616424	2.2806526	20	1 5.9	20.8
407267 2010 CW_{54}	16.2	X	306.43627	126.57590	309.77886	12.30483	0.2362066	0.17668788	3.1453203	20	10 18.6	19.8
407268 2010 CX_{65}	16.5	X	321.76711	291.77475	172.21142	10.08734	0.2142691	0.17440414	3.1727184	20	—	—
407269 2010 CO_{145}	15.3	X	330.30483	6.88986	79.78788	14.71152	0.1543346	0.17525485	3.1624429	20	12 27.9	18.9
407270 2010 CK_{147}	16.2	X	317.46732	67.59451	40.38538	11.47708	0.2450352	0.17437634	3.1730556	20	12 30.7	19.4
407271 2010 CZ_{237}	16.0	X	333.17882	301.25984	113.42814	10.20334	0.0582587	0.18120071	3.0928780	20	11 24.9	20.2
407272 2010 DQ_{25}	17.4	X	293.74167	33.95082	204.61452	3.97832	0.1976188	0.27525365	2.3405288	20	1 14.5	20.7
407273 2010 DU_{73}	16.5	X	339.63163	101.87444	310.38433	10.41139	0.3653650	0.18219164	3.0816531	20	12 22.3	18.8
407274 2010 EC_{80}	18.3	X	304.57240	129.85261	133.55723	3.24707	0.1521395	0.29396216	2.2401397	20	3 6.4	20.8
407275 2010 FS_{5}	17.6	X	321.11189	237.34675	39.63859	7.70345	0.1600416	0.29796031	2.2200552	20	4 20.4	19.7
407276 2010 FH_{14}	18.1	X	316.50939	179.03413	84.93194	3.04800	0.1575004	0.29344000	2.2427963	20	3 25.3	20.3
407277 2010 FB_{86}	17.7	X	290.95790	96.55766	132.74168	2.80264	0.1650033	0.27548066	2.3392428	20	1 4.2	20.9
407278 2010 FM_{93}	18.4	X	306.97072	94.95324	189.34908	1.89375	0.1633081	0.29832012	2.2182697	20	4 6.1	20.7
407279 2010 GR_{100}	18.2	X	323.12742	286.92237	341.08857	3.54557	0.1559115	0.29565349	2.2315881	20	4 8.5	20.4
407280 2010 GC_{113}	17.8	X	351.46454	119.63297	137.03640	4.89722	0.1686105	0.29956506	2.2121197	20	5 23.2	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407281 2010 GA_{117}	17.9	X	315.24890	181.77052	24.62797	2.82277	0.1506263	0.27924826	2.3181546	20	1 4.8	20.7
407282 2010 GB_{117}	17.9	X	347.96953	209.53803	28.19961	6.06455	0.1171695	0.29478577	2.2359652	20	4 15.6	19.7
407283 2010 GX_{120}	18.0	X	253.64024	245.47072	57.25227	2.86179	0.1256443	0.28438180	2.2901724	20	3 2.9	21.1
407284 2010 GG_{124}	17.8	X	286.57216	234.21157	66.42756	5.61256	0.1628036	0.29112299	2.2546807	20	4 3.9	20.6
407285 2010 GO_{125}	18.4	X	297.26306	57.10643	185.91614	1.14849	0.2149237	0.27976254	2.3153128	20	1 21.8	21.8
407286 2010 GW_{140}	17.9	X	246.15730	56.68565	227.15092	4.93417	0.3165124	0.27346565	2.3507198	20	1 20.4	22.3
407287 2010 GB_{157}	17.3	X	288.30850	245.49519	43.52769	8.44522	0.1534175	0.28834775	2.2691246	20	3 23.7	20.2
407288 2010 GS_{158}	17.9	X	278.08692	90.56045	178.36399	5.12023	0.2416934	0.27969529	2.3156839	20	1 31.5	21.6
407289 2010 HV_{63}	16.8	X	177.50600	289.14503	63.51567	11.17116	0.2114775	0.25725410	2.4484685	20	2 29.2	21.1
407290 2010 HH_{71}	17.3	X	291.21267	198.76513	116.56352	6.35260	0.1838324	0.28161983	2.3051219	20	4 28.6	20.2
407291 2010 HE_{104}	17.2	X	341.69284	235.54490	61.14162	7.72989	0.1795669	0.30249423	2.1978159	20	7 10.4	18.5
407292 2010 JY_{28}	17.5	X	249.52174	177.36248	111.00339	8.79790	0.2201983	0.27435881	2.3456153	20	2 3.7	21.2
407293 2010 JH_{38}	17.6	X	323.08484	265.16101	356.38366	5.59089	0.2159711	0.29023883	2.2592574	20	3 20.4	19.9
407294 2010 JT_{45}	17.6	X	256.06104	245.98602	106.40135	5.31318	0.1994290	0.29180896	2.2511459	20	5 3.2	20.8
407295 2010 JY_{108}	16.7	X	90.40465	99.29818	310.89913	25.66959	0.3363017	0.24114259	2.5563488	20	2 18.5	20.1
407296 2010 JT_{111}	18.0	X	293.41073	211.04673	39.23226	2.83187	0.1818047	0.27934062	2.3176436	20	2 1.4	21.0
407297 2010 JT_{150}	17.5	X	265.76026	54.93281	206.64357	4.90320	0.1143456	0.27448200	2.3449134	20	1 22.3	20.8
407298 2010 JF_{152}	17.8	X	266.72871	253.55738	28.99905	4.74583	0.2303608	0.27865428	2.3214477	20	2 11.3	21.4
407299 2010 KB_{88}	16.8	X	167.82918	341.63725	21.13088	14.77240	0.2515704	0.25270553	2.4777618	20	3 6.9	21.2
407300 2010 LL_{53}	17.3	X	155.16130	130.53484	164.82870	9.76523	0.1989599	0.23586875	2.5943134	20	—	—
407301 2010 LE_{62}	17.1	X	154.46648	51.72768	230.67576	13.70624	0.0952533	0.24781331	2.5102653	20	—	—
407302 2010 LE_{67}	17.8	X	331.50307	88.51815	126.23018	6.83944	0.0650231	0.28050344	2.3112340	20	2 22.6	20.3
407303 2010 LA_{90}	17.2	X	164.38737	315.96345	351.58704	18.04185	0.2709383	0.24143063	2.5543151	20	—	—
407304 2010 LM_{127}	16.9	X	77.65078	120.15148	281.47035	10.39648	0.2008374	0.23370992	2.6102651	20	1 4.9	19.5
407305 2010 LO_{127}	17.3	X	195.44780	53.18796	229.74868	6.22377	0.1444938	0.24246401	2.5470523	20	—	—
407306 2010 MJ_{7}	17.2	X	263.79859	281.46892	321.69240	9.26187	0.2142315	0.25328283	2.4739953	20	—	—
407307 2010 MT_{72}	17.6	X	124.22686	240.30651	78.63428	3.12893	0.2011880	0.22938621	2.6429636	20	—	—
407308 2010 MA_{107}	16.1	X	129.93526	247.91697	120.22561	25.97659	0.3279767	0.23899702	2.5716255	20	2 15.2	20.4
407309 2010 NS_{14}	17.0	X	74.27135	87.30621	340.24342	10.62703	0.2461952	0.23457240	2.6038628	20	2 13.2	19.7
407310 2010 NW_{23}	16.9	X	114.05651	188.71005	156.19893	12.49859	0.1961157	0.23044687	2.6348476	20	—	—
407311 2010 NC_{28}	16.6	X	147.15094	28.18605	268.46914	12.29386	0.2492694	0.23138436	2.6277259	20	—	—
407312 2010 NR_{53}	16.6	X	106.46226	27.23370	347.68319	11.86722	0.1736657	0.23371548	2.6102237	20	1 11.7	20.2
407313 2010 NG_{58}	16.7	X	115.03287	51.02526	335.32596	12.88641	0.2432348	0.23778456	2.5803599	20	2 13.6	20.3
407314 2010 NB_{87}	17.5	X	155.12639	315.79943	353.81040	4.28265	0.1741127	0.23492949	2.6012236	20	—	—
407315 2010 NC_{115}	17.4	X	84.35086	228.08480	118.43553	5.91252	0.1280585	0.22085042	2.7106320	20	—	—
407316 2010 OJ_{3}	17.1	X	112.82903	52.04364	328.98379	11.00309	0.2033993	0.23577987	2.5949654	20	1 30.5	20.7
407317 2010 OJ_{24}	17.0	X	84.79153	185.77833	141.76889	6.08636	0.0740613	0.21462292	2.7628161	20	—	—
407318 2010 ON_{66}	16.3	X	250.60803	297.36675	255.93971	10.34371	0.0382956	0.22047227	2.7137306	20	—	—
407319 2010 OR_{76}	17.5	X	33.83024	56.67806	336.08945	6.84091	0.2340809	0.21451815	2.7637156	20	—	—
407320 2010 OL_{90}	17.3	X	51.89145	83.09230	273.27685	3.49788	0.1212857	0.21159414	2.7891185	20	—	—
407321 2010 OK_{91}	16.3	X	99.23723	84.94276	313.10486	10.76265	0.1833292	0.23380833	2.6095326	20	1 30.9	19.6
407322 2010 OM_{91}	17.3	X	45.18191	51.84294	322.86523	3.78812	0.1034076	0.21370879	2.7706891	20	—	—
407323 2010 OM_{98}	15.7	X	125.76040	310.05837	40.99503	16.91239	0.2087556	0.23275403	2.6174069	20	1 8.7	19.8
407324 2010 OB_{101}	20.7	X	317.06038	334.35596	260.96118	9.12114	0.5221869	0.47935813	1.6169478	20	—	—
407325 2010 OS_{121}	17.5	X	55.21511	51.45603	355.60821	3.81218	0.0605441	0.22360605	2.6883162	20	—	—
407326 2010 PQ_{54}	17.6	X	77.47876	278.39373	50.98724	8.27180	0.2279135	0.21361793	2.7714747	20	—	—
407327 2010 PT_{55}	17.7	X	104.42781	13.78858	324.58403	2.97105	0.2179848	0.22282449	2.6945988	20	—	—
407328 2010 PL_{57}	17.1	X	160.82628	135.03915	146.04410	4.96609	0.2199276	0.23862329	2.5743100	20	—	—
407329 2010 PZ_{60}	17.8	X	182.10809	165.81985	208.56635	0.78900	0.1983330	0.25933523	2.4353518	20	3 24.1	21.7
407330 2010 PS_{63}	17.4	X	185.27761	345.64107	350.46838	5.47504	0.2172423	0.25569326	2.4584225	20	2 11.7	21.4
407331 2010 PR_{76}	16.7	X	228.69738	151.13791	156.10422	14.99759	0.1664603	0.25889625	2.4381039	20	2 10.7	20.8
407332 2010 PP_{79}	17.7	X	129.25761	64.96050	351.08351	2.97954	0.1770889	0.25312740	2.4750080	20	3 25.7	21.2
407333 2010 PW_{79}	17.3	X	113.05289	183.86262	160.19608	9.69957	0.1365540	0.23410149	2.6073536	20	—	—
407334 2010 QF	17.7	X	116.47649	44.49323	325.09068	6.43496	0.1971124	0.24176582	2.5519537	20	1 17.8	21.1
407335 2010 QZ	16.9	X	125.02385	344.47687	331.19932	6.80649	0.1943117	0.23327541	2.6135055	20	—	—
407336 2010 RC_{15}	16.8	X	140.05140	335.57964	305.42376	6.67356	0.1921164	0.22979648	2.6398169	20	—	—
407337 2010 RN_{26}	17.8	X	167.08517	48.43891	320.65826	4.06469	0.0925255	0.25469350	2.4648518	20	2 26.9	21.3
407338 2010 RQ_{30}	18.0	X	194.29606	7.83659	137.45689	4.92345	0.4763348	0.49458879	1.5835795	20	9 19.6	20.1
407339 2010 RV_{39}	16.5	X	126.75280	348.17684	321.63387	13.64024	0.2184839	0.23098410	2.6307606	20	—	—
407340 2010 RP_{47}	17.4	X	49.96444	54.43851	335.40955	1.83908	0.0825558	0.22339606	2.6900006	20	—	—
407341 2010 RW_{47}	17.0	X	93.37585	7.03601	357.23939	6.01046	0.2028198	0.22958894	2.6414075	20	—	—
407342 2010 RN_{48}	17.6	X	131.43347	254.31783	181.42624	10.31608	0.2384648	0.25343639	2.4729959	20	4 30.3	21.6
407343 2010 RB_{51}	17.5	X	125.89849	300.39320	10.34347	2.48554	0.1599236	0.22642689	2.6659421	20	—	—
407344 2010 RX_{58}	17.7	X	95.61775	102.24723	297.15716	3.70023	0.1288545	0.24004981	2.5641011	20	1 17.8	20.8
407345 2010 RS_{62}	16.1	X	136.87549	62.44257	273.86287	13.68292	0.1307783	0.23587739	2.5942501	20	—	—
407346 2010 RC_{64}	17.1	X	48.41702	116.14888	287.39475	6.92090	0.2427097	0.22511964	2.6762527	20	—	—
407347 2010 RG_{78}	17.3	X	125.99826	189.41406	155.07979	4.99885	0.2005398	0.23474215	2.6026074	20	—	—
407348 2010 RZ_{81}	17.5	X	44.49448	237.18992	165.07298	5.56441	0.1676650	0.22314844	2.6919902	20	—	—
407349 2010 RJ_{90}	17.9	X	191.47649	238.48397	142.77821	0.78605	0.2260420	0.26155639	2.4215447	20	4 10.0	22.1
407350 2010 RE_{99}	17.2	X	151.15402	307.76077	330.68973	4.87960	0.1103892	0.22456446	2.6806618	20	—	—
407351 2010 RR_{99}	17.0	X	1.68972	113.49685	290.23188	2.36719	0.0946133	0.21242450	2.7818453	20	12 31.1	20.4
407352 2010 RB_{100}	17.8	X	104.66609	110.75534	274.66097	2.91414	0.1509886	0.23663169	2.5887341	20	1 15.9	21.0
407353 2010 RL_{100}	17.3	X	116.58322	8.52164	331.08277	5.61436	0.0143137	0.22790571	2.6543972	20	—	—
407354 2010 RK_{101}	17.6	X	155.30308	304.60773	344.04807	5.63806	0.1293551	0.22791120	2.6543546	20	—	—
407355 2010 RJ_{102}	17.7	X	76.02522	127.77952	219.10759	4.22580	0.1219899	0.22010602	2.7167401	20	—	—
407356 2010 RP_{103}	16.7	X	331.11350	91.75111	4.27374	13.10432	0.0847874	0.21633456	2.7482239	20	—	—
407357 2010 RL_{104}	17.2	X	48.69127	228.63358	200.35562	6.13185	0.1546918	0.22911439	2.6450536	20	—	—
407358 2010 RS_{104}	17.2	X	43.16042	231.83542	206.59112	5.02193	0.2260356	0.22793735	2.6541516	20	—	—
407359 2010 RW_{104}	17.3	X	345.92421	64.76562	5.89850	5.84831	0.0750835	0.21340106	2.7733521	20	—	—
407360 2010 RS_{105}	17.0	X	238.57535	58.32750	194.98612	2.05907	0.1241430	0.23927241	2.5696519	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407361 2010 RN_{106}	17.1	X	68.94996	37.17642	6.26279	5.66746	0.1109666	0.22987239	2.6392357	20	—	—
407362 2010 RJ_{107}	17.3	X	49.21623	172.03353	187.55235	3.52836	0.1060632	0.21387652	2.7692403	20	—	—
407363 2010 RQ_{110}	17.3	X	194.19331	280.10596	3.89646	10.63394	0.0856271	0.23758608	2.5817968	20	—	—
407364 2010 RW_{111}	17.8	X	83.96718	280.81334	85.04638	1.24556	0.1306646	0.22715224	2.6602638	20	—	—
407365 2010 RV_{117}	17.2	X	338.48441	280.98033	165.92055	8.53196	0.2764205	0.21073902	2.7966583	20	—	—
407366 2010 RO_{118}	17.4	X	95.59107	281.41933	141.85417	6.01857	0.0985651	0.24231947	2.5480651	20	2 13.4	20.4
407367 2010 RH_{126}	17.3	X	146.90508	180.28719	155.90466	7.26138	0.1165404	0.23812197	2.5779218	20	—	—
407368 2010 RS_{129}	17.3	X	223.17886	192.72960	142.65624	3.12406	0.1756429	0.26449942	2.4035486	20	3 12.2	21.0
407369 2010 RU_{129}	16.1	X	115.05375	89.47028	330.30605	13.49980	0.2010107	0.24292124	2.5438552	20	3 14.9	19.8
407370 2010 RM_{135}	17.3	X	36.12453	211.96998	193.51214	13.09428	0.0996975	0.22269990	2.6956037	20	—	—
407371 2010 RK_{136}	17.1	X	45.11814	58.53784	29.31109	12.08773	0.1634631	0.23193014	2.6236018	20	1 5.7	19.9
407372 2010 RS_{139}	18.0	X	175.38832	187.34657	187.64670	4.29358	0.2423481	0.25651727	2.4531549	20	3 20.7	22.3
407373 2010 RR_{146}	17.9	X	84.24054	349.01226	6.63051	3.42668	0.1516286	0.22392204	2.6857865	20	—	—
407374 2010 RN_{147}	17.6	X	90.33611	30.40301	16.10772	5.92572	0.0335885	0.23733905	2.5835879	20	1 7.7	21.0
407375 2010 RL_{149}	17.5	X	50.65095	71.25476	329.44886	6.41306	0.1464090	0.22709638	2.6607000	20	—	—
407376 2010 RQ_{149}	17.3	X	151.84645	305.45903	339.19754	8.39672	0.1027855	0.22873810	2.6479536	20	—	—
407377 2010 RR_{150}	17.5	X	112.46994	219.25245	190.68306	4.51051	0.1436375	0.24616835	2.5214357	20	2 23.1	20.8
407378 2010 RZ_{151}	16.9	X	69.32023	34.33654	13.64761	8.72828	0.0836742	0.23257228	2.6187704	20	—	—
407379 2010 RF_{165}	16.7	X	151.60218	151.23925	186.22151	14.86014	0.1368385	0.23842511	2.5757363	20	1 7.1	20.8
407380 2010 RM_{173}	17.1	X	81.50725	332.65437	33.72512	7.82853	0.2231300	0.22074265	2.7115142	20	—	—
407381 2010 RY_{174}	17.4	X	60.40002	194.45494	173.69701	4.63888	0.1379498	0.22012472	2.7165863	20	—	—
407382 2010 RZ_{177}	16.9	X	34.41339	339.34777	33.30433	10.75075	0.1335737	0.21302154	2.7766450	20	—	—
407383 2010 RM_{179}	17.2	X	202.33400	282.81703	1.94212	14.83428	0.1210486	0.24166562	2.5526590	20	—	—
407384 2010 RD_{180}	17.4	X	70.54605	24.12053	10.88733	4.27662	0.1965119	0.22819365	2.6521638	20	—	—
407385 2010 RX_{180}	16.5	X	122.07896	58.82645	273.34854	7.79419	0.1261106	0.23122763	2.6289131	20	—	—
407386 2010 RY_{180}	16.2	X	128.25672	354.46037	35.08051	17.81770	0.1770361	0.23927928	2.5696028	20	3 2.5	20.3
407387 2010 SR_{13}	17.3	X	91.77877	91.69148	341.30196	4.72451	0.2116771	0.24302655	2.5431203	20	3 9.1	20.5
407388 2010 SY_{13}	16.3	X	55.49775	50.75219	22.38514	22.45440	0.0365786	0.23396159	2.6083929	20	—	—
407389 2010 SK_{27}	17.3	X	123.97769	146.89340	207.58575	3.93529	0.1718290	0.23429392	2.6059258	20	1 3.9	20.8
407390 2010 SC_{29}	17.1	X	71.70593	222.75727	114.83304	4.17877	0.0620513	0.21648287	2.7469686	20	—	—
407391 2010 SS_{32}	17.6	X	183.04230	210.31314	84.96713	4.04979	0.1296881	0.23931751	2.5693291	20	—	—
407392 2010 SD_{33}	17.7	X	136.58774	234.00502	91.65742	3.70962	0.2271226	0.23505039	2.6003316	20	—	—
407393 2010 SC_{34}	16.5	X	117.93135	343.10060	4.17808	11.68840	0.2407940	0.23120252	2.6291034	20	—	—
407394 2010 SO_{35}	17.5	X	62.73268	74.90014	343.29773	5.75797	0.2417730	0.23021057	2.6366504	20	1 7.7	19.9
407395 2010 TG_{14}	17.0	X	178.38493	40.37584	243.51134	4.15560	0.0488335	0.23091337	2.6312978	20	—	—
407396 2010 TN_{15}	17.4	X	76.45411	100.00828	267.93934	5.26663	0.0477201	0.22374795	2.6871795	20	—	—
407397 2010 TH_{18}	17.1	X	198.62782	6.86579	261.04219	4.33210	0.0670823	0.23588056	2.5942269	20	—	—
407398 2010 TL_{18}	17.4	X	188.85115	347.95217	295.15786	4.28314	0.2138111	0.24155475	2.5534400	20	—	—
407399 2010 TC_{20}	18.1	X	161.63322	217.48991	187.77438	5.76596	0.1017801	0.25755699	2.4465485	20	4 9.1	21.7
407400 2010 TK_{27}	17.1	X	4.03334	199.51561	221.80506	6.09400	0.0349516	0.21904514	2.7255049	20	—	—
407401 2010 TT_{28}	17.3	X	145.25001	30.04501	271.27895	1.71946	0.1285188	0.22945657	2.6424233	20	—	—
407402 2010 TZ_{30}	17.8	X	33.27108	29.81670	0.87263	5.73416	0.0647038	0.21778669	2.7359941	20	—	—
407403 2010 TA_{32}	17.8	X	325.26966	163.31136	306.69782	1.48515	0.1357200	0.21662161	2.7457955	20	—	—
407404 2010 TQ_{32}	17.8	X	86.71212	205.95137	175.39616	1.69728	0.0906878	0.22937271	2.6430673	20	—	—
407405 2010 TV_{40}	16.9	X	40.92356	81.91132	11.63024	21.88447	0.0921635	0.23444922	2.6047748	20	1 4.8	20.5
407406 2010 TV_{44}	17.3	X	80.48855	318.37618	3.12966	3.52750	0.0906186	0.21250895	2.7811083	20	12 26.1	21.5
407407 2010 TZ_{65}	17.6	X	26.28472	96.81295	357.51876	11.08974	0.1637721	0.23120385	2.6290934	20	—	—
407408 2010 TY_{77}	17.2	X	197.44281	243.02413	24.88961	13.59777	0.1785124	0.23411959	2.6072192	20	—	—
407409 2010 TQ_{80}	17.4	X	169.42866	104.15695	184.47636	7.53844	0.1267204	0.22997322	2.6384642	20	—	—
407410 2010 TZ_{81}	17.3	X	139.65439	136.45134	193.65267	5.23760	0.2505496	0.23389657	2.6088763	20	—	—
407411 2010 TR_{82}	17.4	X	61.62908	87.56914	292.61457	4.37952	0.0972841	0.22499865	2.6772121	20	—	—
407412 2010 TR_{89}	17.1	X	297.92650	319.31811	155.32320	4.08011	0.0499895	0.21396710	2.7684587	20	12 27.3	20.5
407413 2010 TM_{91}	17.2	X	91.23697	278.02694	25.89375	3.87100	0.0816267	0.21272489	2.7792258	20	12 15.3	21.4
407414 2010 TF_{93}	16.9	X	232.07214	187.38379	12.90429	7.63522	0.0757482	0.22146739	2.7055954	20	—	—
407415 2010 TK_{94}	17.6	X	82.76572	55.85090	15.89515	11.56011	0.0886776	0.24245766	2.5470968	20	2 9.9	20.9
407416 2010 TO_{94}	17.1	X	258.55238	83.45790	71.15498	0.72997	0.0125867	0.21542638	2.7559423	20	12 29.3	20.7
407417 2010 TZ_{94}	17.1	X	223.77760	185.33101	45.77140	3.11901	0.1513040	0.23144495	2.6272672	20	—	—
407418 2010 TM_{97}	17.3	X	152.17332	252.00614	24.07986	6.69011	0.1135710	0.22372420	2.6873705	20	—	—
407419 2010 TA_{99}	17.8	X	100.14459	207.69753	186.22389	7.36691	0.1393314	0.23748129	2.5825562	20	1 17.6	21.1
407420 2010 TT_{99}	17.5	X	42.88574	335.20059	34.96818	5.70994	0.0630211	0.21575109	2.7531765	20	—	—
407421 2010 TA_{100}	17.6	X	128.12926	168.62734	163.78748	3.48070	0.1130419	0.23104042	2.6303330	20	—	—
407422 2010 TB_{100}	17.0	X	24.65168	217.12333	163.05439	3.98380	0.1056239	0.21277315	2.7788057	20	—	—
407423 2010 TJ_{100}	17.5	X	43.43232	301.06586	63.87996	2.81986	0.0721470	0.21439686	2.7647579	20	—	—
407424 2010 TF_{103}	17.5	X	56.38604	293.32889	120.02032	3.06724	0.0826835	0.22992280	2.6388499	20	—	—
407425 2010 TX_{108}	16.9	X	311.35657	343.91212	183.36619	14.97369	0.0515613	0.23295408	2.6159082	20	—	—
407426 2010 TM_{115}	16.9	X	116.56467	110.62880	193.50628	4.31159	0.0979021	0.21845968	2.7303722	20	—	—
407427 2010 TV_{126}	17.2	X	157.08075	58.80790	246.17179	2.31086	0.0402048	0.22769350	2.6560462	20	—	—
407428 2010 TY_{126}	17.2	X	38.38252	306.86877	90.63536	3.87165	0.0750434	0.21878330	2.7276790	20	—	—
407429 2010 TS_{136}	16.2	X	143.06404	259.56344	35.63721	14.90401	0.0862007	0.22511716	2.6762724	20	—	—
407430 2010 TR_{140}	17.3	X	74.59131	32.06076	346.14791	5.93316	0.0309056	0.22267437	2.6958097	20	—	—
407431 2010 TP_{141}	16.9	X	356.96994	135.93075	10.89100	13.32206	0.1149528	0.23315993	2.6143683	20	1 2.0	20.2
407432 2010 TG_{143}	17.6	X	149.91681	322.40261	351.29286	5.93596	0.2017415	0.23124470	2.6287837	20	—	—
407433 2010 TM_{143}	17.2	X	358.67770	163.05745	291.94668	4.36106	0.0113469	0.22177586	2.7030861	20	—	—
407434 2010 TG_{162}	17.5	X	135.39812	202.37747	190.18745	13.43708	0.2755237	0.24325763	2.5415095	20	3 11.5	21.8
407435 2010 TO_{168}	15.5	X	186.05906	316.17780	27.91374	15.59421	0.1537407	0.24304168	2.5430147	20	2 27.4	19.8
407436 2010 TU_{168}	16.8	X	82.11408	68.14305	357.97167	12.97462	0.1427725	0.23555242	2.5966355	20	2 10.2	20.0
407437 2010 TG_{170}	16.8	X	148.69033	266.69520	44.63605	13.33028	0.1799516	0.22879277	2.6475318	20	—	—
407438 2010 TO_{171}	17.3	X	63.43060	20.67264	344.72596	2.85433	0.2006098	0.21691078	2.7433546	20	—	—
407439 2010 TN_{174}	17.6	X	137.96261	295.95860	42.37852	14.07940	0.1942510	0.23452714	2.6041979	20	1 3.0	21.7
407440 2010 TB_{179}	17.8	X	83.33565	142.80042	210.59596	3.10982	0.1190685	0.22272546	2.6953974	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407441 2010 TQ_{181}	17.7	X	92.22406	313.43424	26.58263	5.46130	0.0676885	0.21854491	2.7296623	20	—	—
407442 2010 TH_{182}	16.2	X	310.97899	80.78421	257.70687	7.78673	0.0972595	0.17435639	3.1732976	20	7 9.5	20.4
407443 2010 TT_{186}	17.5	X	29.93269	73.34727	14.86995	4.65165	0.1050454	0.22811645	2.6527621	20	—	—
407444 2010 TS_{187}	17.1	X	92.03638	81.59310	271.08796	5.81426	0.0844070	0.22219331	2.6996993	20	—	—
407445 2010 UR	17.0	X	43.03522	73.58586	8.32039	4.70935	0.1353807	0.22897125	2.6461558	20	—	—
407446 2010 UY	17.2	X	311.01820	51.93098	35.16316	5.95191	0.0373930	0.20350491	2.8625481	20	12 7.4	20.9
407447 2010 UP_{1}	17.5	X	8.27593	109.37900	310.30822	3.30067	0.0564386	0.21545678	2.7556831	20	—	—
407448 2010 UE_{10}	17.2	X	78.55713	148.64835	210.18839	4.28837	0.1276375	0.21971988	2.7199222	20	—	—
407449 2010 UO_{19}	17.3	X	145.83250	89.58751	217.70039	7.72811	0.1107381	0.22560218	2.6724352	20	—	—
407450 2010 US_{21}	17.3	X	141.03625	267.71128	103.49922	5.53710	0.2279768	0.24133083	2.5550192	20	2 18.7	21.3
407451 2010 UQ_{26}	16.1	X	48.96599	257.80446	44.35884	10.61036	0.0181399	0.18949999	3.0019025	20	10 14.4	20.3
407452 2010 UW_{27}	16.4	X	96.07849	268.96740	55.28030	7.72860	0.1039907	0.21162915	2.7888108	20	—	—
407453 2010 UV_{30}	16.5	X	14.47763	109.17537	14.33194	6.58239	0.1252930	0.22948767	2.6421845	20	—	—
407454 2010 US_{35}	16.9	X	10.83939	260.34207	181.35861	5.05114	0.1415380	0.21910281	2.7250266	20	—	—
407455 2010 UK_{37}	16.2	X	15.62593	307.03249	44.34956	11.22521	0.1078707	0.19313229	2.9641451	20	11 10.4	19.9
407456 2010 UV_{39}	17.5	X	114.82697	10.43526	359.03156	2.16065	0.2376079	0.23414108	2.6070597	20	1 22.0	21.0
407457 2010 UT_{43}	16.8	X	31.40463	310.70007	63.04791	4.44003	0.1033722	0.20999405	2.8032687	20	—	—
407458 2010 UQ_{44}	17.2	X	92.10795	81.90783	318.80144	3.92475	0.2276702	0.23227596	2.6209971	20	1 31.6	20.4
407459 2010 UO_{49}	17.1	X	99.01526	215.94546	153.80737	3.89635	0.1103352	0.22784749	2.6548494	20	—	—
407460 2010 UR_{50}	16.5	X	345.55779	125.76833	349.23733	11.23314	0.1033186	0.21756262	2.7378723	20	—	—
407461 2010 UT_{56}	15.3	X	7.90663	41.35010	243.16947	26.86087	0.2185529	0.17515222	3.1636781	20	7 26.7	19.3
407462 2010 UH_{60}	15.7	X	171.67962	283.49788	255.01949	8.61883	0.0605811	0.18218526	3.0817250	20	9 30.9	20.4
407463 2010 UC_{62}	16.1	X	267.72637	183.54855	353.38039	7.59698	0.0982328	0.21586855	2.7521776	20	—	—
407464 2010 UC_{64}	17.1	X	89.43892	16.77671	17.50568	4.34411	0.1107447	0.22893325	2.6464486	20	1 2.2	20.3
407465 2010 UF_{64}	17.4	X	96.85453	19.40161	352.81807	2.36381	0.1777624	0.22701890	2.6613053	20	—	—
407466 2010 UB_{72}	17.5	X	9.19156	55.92585	340.91693	2.69537	0.1113042	0.20981063	2.8049022	20	—	—
407467 2010 UN_{72}	16.8	X	122.76577	26.77789	20.91420	2.68722	0.2364388	0.23998621	2.5645541	20	3 17.1	20.6
407468 2010 UK_{76}	17.1	X	139.51052	31.03077	319.86087	3.96441	0.2357425	0.23306703	2.6150630	20	1 24.3	21.0
407469 2010 UJ_{79}	16.4	X	77.65854	357.75706	25.11156	12.45723	0.0550408	0.22119442	2.7078209	20	—	—
407470 2010 UG_{80}	17.0	X	322.96852	87.93013	350.14932	7.02025	0.0266371	0.20304863	2.8668348	20	12 12.2	20.9
407471 2010 UX_{81}	16.2	X	342.32123	108.16686	229.63313	9.44830	0.1354314	0.18508547	3.0494476	20	8 25.2	19.9
407472 2010 UX_{84}	17.4	X	97.14271	22.88214	57.94837	5.53860	0.2995526	0.23824664	2.5770224	20	4 10.5	21.1
407473 2010 UG_{93}	16.9	X	26.36341	115.14553	275.02052	5.83395	0.1061705	0.20908238	2.8114116	20	—	—
407474 2010 UP_{93}	16.4	X	41.35139	28.48237	279.69047	6.46263	0.2774059	0.19778296	2.9174951	20	11 16.2	20.6
407475 2010 UQ_{95}	16.9	X	45.40871	245.56867	191.81906	8.75828	0.2764834	0.22243166	2.6977704	20	—	—
407476 2010 UV_{95}	17.4	X	117.02861	235.93254	147.97662	3.31410	0.2433040	0.23546358	2.5972886	20	2 11.2	20.9
407477 2010 UZ_{95}	16.8	X	134.87850	238.26350	140.92998	8.51457	0.1948298	0.23901457	2.5714997	20	2 18.3	20.7
407478 2010 UG_{100}	17.0	X	74.10381	257.47082	59.79506	9.14444	0.0587394	0.20670490	2.8329280	20	12 8.4	20.9
407479 2010 UO_{100}	15.8	X	168.22189	274.94107	268.82389	9.25749	0.0610551	0.19129459	2.9830985	20	10 4.2	20.5
407480 2010 UW_{101}	17.0	X	120.97179	129.07225	215.77365	8.85393	0.1105480	0.22896260	2.6462225	20	—	—
407481 2010 UU_{102}	17.1	X	27.91367	331.76653	74.33853	5.76815	0.0913562	0.21392297	2.7688394	20	—	—
407482 2010 UU_{104}	17.3	X	62.97259	206.14210	115.98615	3.15430	0.0653963	0.20223690	2.8745009	20	12 2.2	21.3
407483 2010 UM_{106}	16.5	X	127.83964	99.76675	292.81129	7.44042	0.2169548	0.23813627	2.5778186	20	2 26.8	20.5
407484 2010 VL_{12}	17.2	X	112.62403	331.45874	60.06971	7.10785	0.1991609	0.23511113	2.5998837	20	2 13.2	20.9
407485 2010 VB_{15}	17.1	X	88.16577	41.06072	298.40009	5.11643	0.0652067	0.21473501	2.7618546	20	—	—
407486 2010 VF_{19}	17.1	X	122.90418	319.07220	65.53575	5.46167	0.1273179	0.23618624	2.5919880	20	2 5.5	20.7
407487 2010 VK_{21}	17.0	X	73.08928	352.92602	49.11482	7.45576	0.1443563	0.22454128	2.6808463	20	—	—
407488 2010 VG_{34}	16.8	X	48.26152	310.88023	86.56523	5.30573	0.1284543	0.21647184	2.7470619	20	—	—
407489 2010 VN_{48}	16.5	X	138.08714	312.46351	71.26227	8.31878	0.1687489	0.23647363	2.5898875	20	2 28.3	20.5
407490 2010 VN_{52}	17.1	X	101.18494	165.61642	191.76302	3.01882	0.1074158	0.22297399	2.6933941	20	—	—
407491 2010 VB_{55}	17.3	X	18.26773	286.10861	95.20172	3.18304	0.0988724	0.20477146	2.8507323	20	12 24.1	21.0
407492 2010 VQ_{58}	16.5	X	27.87124	112.87697	9.00242	12.32950	0.1304045	0.23288336	2.6164378	20	1 23.0	19.5
407493 2010 VZ_{64}	16.2	X	157.62159	271.98671	295.68755	6.74031	0.0269823	0.19004983	2.9961098	20	10 23.4	20.6
407494 2010 VR_{73}	17.3	X	117.36039	125.83519	224.47158	1.43300	0.1622503	0.22922822	2.6441779	20	—	—
407495 2010 VJ_{76}	16.9	X	24.42548	220.64045	196.80677	2.69966	0.0854718	0.21694054	2.7431038	20	—	—
407496 2010 VE_{77}	17.1	X	77.07284	109.18632	266.01173	1.89398	0.0912082	0.22075302	2.7114293	20	—	—
407497 2010 VV_{83}	17.4	X	44.85793	61.25514	353.72964	0.53298	0.0923011	0.21809295	2.7334322	20	—	—
407498 2010 VC_{84}	15.9	X	141.56074	120.12364	60.37704	11.70393	0.0201272	0.17709363	3.1405141	20	9 8.2	20.6
407499 2010 VM_{84}	16.8	X	62.55451	119.37998	251.16707	3.37469	0.0847043	0.21152625	2.7897152	20	—	—
407500 2010 VZ_{85}	16.1	X	290.28240	346.10140	63.84810	10.11090	0.1266270	0.18331005	3.0691059	20	9 14.6	20.2
407501 2010 VF_{89}	15.9	X	195.36344	267.69282	254.12663	9.84065	0.0908164	0.18501893	3.0501786	20	10 4.4	20.7
407502 2010 VD_{90}	16.3	X	237.81294	225.04866	254.93761	3.72022	0.1063112	0.18539071	3.0460994	20	9 30.4	20.7
407503 2010 VP_{91}	17.4	X	119.08242	75.55349	312.11047	0.98252	0.2060666	0.23392345	2.6086764	20	2 13.6	21.0
407504 2010 VL_{95}	17.4	X	58.13926	35.05131	23.60894	2.95769	0.1204204	0.22496878	2.6774490	20	—	—
407505 2010 VZ_{97}	17.4	X	24.88793	66.10074	10.10360	1.58285	0.1856365	0.21941615	2.7224317	20	—	—
407506 2010 VH_{98}	17.2	X	70.82803	295.63877	60.88846	3.45611	0.1232450	0.21543065	2.7559059	20	—	—
407507 2010 VQ_{101}	17.1	X	40.40907	357.89297	59.41475	5.15047	0.1072187	0.21803034	2.7339554	20	—	—
407508 2010 VJ_{103}	15.8	X	151.21724	118.33210	68.71177	12.91166	0.1051338	0.17968280	3.1102720	20	9 30.2	20.9
407509 2010 VZ_{104}	17.3	X	53.49564	176.39661	193.32163	4.14100	0.0831589	0.21094738	2.7948165	20	—	—
407510 2010 VD_{105}	16.7	X	152.24382	189.68658	88.97057	4.86750	0.1140940	0.21416600	2.7667443	20	—	—
407511 2010 VL_{114}	15.8	X	141.93336	149.19004	47.05729	13.20339	0.0707180	0.18071395	3.0984293	20	9 30.1	20.6
407512 2010 VS_{114}	17.1	X	92.04417	94.86149	291.48297	3.55706	0.1778203	0.22600252	2.6692783	20	1 5.9	20.2
407513 2010 VS_{115}	17.0	X	40.75523	11.16506	22.56126	15.86332	0.0772323	0.21512127	2.7585476	20	—	—
407514 2010 VL_{128}	17.1	X	72.59214	57.80481	297.15226	2.54616	0.1058060	0.21429658	2.7656203	20	—	—
407515 2010 VR_{134}	17.1	X	26.73870	25.63364	54.61587	5.83583	0.0955574	0.22022019	2.7158011	20	—	—
407516 2010 VU_{134}	17.2	X	116.63944	284.97358	77.55090	3.09161	0.1036966	0.22812332	2.6527089	20	—	—
407517 2010 VV_{135}	17.1	X	355.24550	334.87996	52.09336	10.56350	0.0926458	0.19937853	2.9019090	20	11 25.3	20.8
407518 2010 VQ_{136}	16.4	X	127.24574	0.71216	237.62934	9.66450	0.0645888	0.19113799	2.9847277	20	10 29.7	20.8
407519 2010 VZ_{140}	17.2	X	169.15935	160.38951	123.63951	4.71122	0.0461320	0.22014586	2.7164124	20	—	—
407520 2010 VW_{150}	16.9	X	17.74736	350.49111	86.05443	6.60251	0.1039160	0.21639746	2.7476913	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407521 2010 VC_{158}	17.4	X	59.29121	235.81431	155.95935	3.78984	0.0809105	0.21816742	2.7328101	20	—	—
407522 2010 VS_{161}	16.2	X	313.56549	90.93798	48.53562	13.90327	0.0543692	0.21536401	2.7564744	20	—	—
407523 2010 VU_{172}	16.1	X	24.07442	239.52817	70.15437	12.04185	0.0516645	0.18126735	3.0921199	20	9 28.3	20.5
407524 2010 VA_{174}	16.3	X	115.10926	245.05195	61.21165	14.23309	0.1566062	0.21247300	2.7814220	20	—	—
407525 2010 VY_{174}	17.0	X	106.40152	289.24421	66.93797	7.14923	0.0503375	0.22104997	2.7090004	20	—	—
407526 2010 VT_{191}	16.4	X	335.55613	57.65575	63.53498	9.60508	0.1508872	0.21389273	2.7691004	20	—	—
407527 2010 VG_{192}	17.3	X	62.29042	44.00758	351.33034	4.58099	0.1673781	0.21893692	2.7264030	20	—	—
407528 2010 VM_{196}	17.1	X	137.59244	17.69051	282.04003	3.46276	0.1032426	0.21687186	2.7436829	20	—	—
407529 2010 VL_{200}	16.6	X	71.19862	345.86107	77.61985	11.01310	0.2922902	0.22752582	2.6573510	20	2 13.7	19.5
407530 2010 VG_{201}	17.0	X	25.42878	288.00154	143.46872	4.92536	0.2424371	0.21611092	2.7501196	20	—	—
407531 2010 VH_{203}	17.2	X	59.88871	62.45150	341.44574	4.92969	0.0678187	0.22538991	2.6741129	20	—	—
407532 2010 VV_{205}	16.8	X	63.38572	329.81177	48.39073	6.79553	0.0519326	0.21708860	2.7418564	20	—	—
407533 2010 VP_{207}	16.7	X	335.01667	117.61022	29.41785	14.92729	0.0635216	0.22483858	2.6784826	20	—	—
407534 2010 VQ_{211}	16.6	X	232.51446	331.33094	237.93238	5.21671	0.0135894	0.21486925	2.7607042	20	—	—
407535 2010 VQ_{217}	16.2	X	284.75635	41.13473	30.19970	9.92403	0.0510394	0.19185504	2.9772861	20	10 11.3	20.1
407536 2010 WB_{7}	16.5	X	347.49827	302.48028	71.94782	8.26963	0.1001450	0.19096726	2.9865063	20	10 29.9	20.1
407537 2010 WO_{8}	15.8	X	178.54346	90.48618	95.87135	11.35349	0.0799994	0.17721542	3.1390752	20	10 25.0	20.7
407538 2010 WX_{13}	16.9	X	6.96548	349.65650	93.87813	3.87966	0.0537122	0.21509660	2.7587585	20	—	—
407539 2010 WJ_{15}	17.3	X	91.20302	170.76736	195.39783	2.70974	0.1171000	0.22022017	2.7158013	20	—	—
407540 2010 WP_{21}	17.4	X	94.84843	290.19414	57.80343	1.07748	0.1033540	0.21518664	2.7579889	20	—	—
407541 2010 WH_{27}	16.6	X	246.79627	214.61338	271.97766	3.88792	0.0493995	0.19099274	2.9862407	20	10 28.7	20.7
407542 2010 WV_{27}	17.1	X	139.06904	9.13815	297.68431	2.73436	0.0797002	0.21491233	2.7603352	20	—	—
407543 2010 WF_{30}	17.0	X	130.10534	207.95521	73.09093	3.16580	0.0301061	0.20309333	2.8664142	20	12 25.6	21.2
407544 2010 WT_{32}	16.4	X	170.35630	115.16465	87.90493	4.27332	0.1090619	0.18926115	3.0044275	20	11 2.5	21.1
407545 2010 WL_{48}	17.1	X	63.88399	108.43735	260.47583	4.26798	0.0673201	0.21025459	2.8009524	20	—	—
407546 2010 WA_{50}	16.7	X	127.98320	353.64824	14.67680	5.32310	0.3218469	0.23516826	2.5994626	20	2 13.6	20.8
407547 2010 WD_{52}	15.5	X	329.98135	329.82250	61.73675	11.03277	0.0774092	0.18949602	3.0019444	20	10 24.9	19.3
407548 2010 WD_{55}	16.0	X	113.94942	285.70916	91.99120	7.09084	0.0585644	0.22018383	2.7161001	20	1 7.9	19.6
407549 2010 WP_{64}	16.9	X	129.43083	341.44077	61.46323	8.06556	0.1817919	0.23943819	2.5684657	20	3 15.6	20.8
407550 2010 WK_{71}	16.2	X	159.71564	338.57425	8.06048	5.23725	0.2964435	0.23924363	2.5698580	20	2 10.2	20.7
407551 2010 WW_{73}	15.2	X	289.89875	304.20987	93.27776	13.22920	0.1150323	0.17552934	3.1591450	20	8 28.4	19.5
407552 2010 XR_{9}	17.1	X	72.41200	286.70908	128.77861	4.10959	0.1741683	0.22539081	2.6741058	20	1 12.9	19.8
407553 2010 XD_{30}	16.8	X	124.20446	308.13110	83.10383	11.76345	0.1374047	0.23718665	2.5846945	20	2 19.1	20.6
407554 2010 XM_{30}	16.5	X	227.60538	67.77336	73.20136	12.14069	0.0183254	0.19091837	2.9870161	20	11 1.4	20.8
407555 2010 XW_{33}	16.9	X	160.44059	190.55135	84.56680	3.49595	0.0304303	0.20930324	2.8094334	20	—	—
407556 2010 XJ_{36}	16.8	X	20.48024	3.58623	86.22390	10.06644	0.1369655	0.21712658	2.7415367	20	—	—
407557 2010 XK_{45}	16.0	X	231.94503	265.40359	243.29724	7.36556	0.1647593	0.18777674	3.0202404	20	10 22.1	20.5
407558 2010 XE_{62}	16.3	X	271.86454	217.14153	256.19096	7.73476	0.1890008	0.18942751	3.0026682	20	10 23.4	20.3
407559 2010 XA_{65}	15.7	X	254.69844	12.92960	114.43337	19.29685	0.1659748	0.17953839	3.1119396	20	10 30.9	20.4
407560 2010 XN_{65}	16.6	X	153.35375	250.66699	127.96716	6.06665	0.1735596	0.24048025	2.5610404	20	3 5.6	20.5
407561 2010 XE_{66}	16.8	X	286.83637	13.12441	113.47701	9.46914	0.1315666	0.19182802	2.9775657	20	12 13.6	20.5
407562 2010 XT_{75}	17.2	X	131.01786	160.74143	229.05696	2.05727	0.1595050	0.23573211	2.5953159	20	2 22.5	20.9
407563 2010 XA_{78}	17.1	X	153.48897	275.00590	94.19429	1.17761	0.2036306	0.23862940	2.5742660	20	2 24.6	21.1
407564 2010 XG_{79}	17.7	X	15.14488	298.98427	145.18373	3.64497	0.1992810	0.21378618	2.7700204	20	—	—
407565 2010 XG_{86}	15.4	X	311.70102	349.79442	84.15611	10.97913	0.0355213	0.19312213	2.9642490	20	11 21.9	19.4
407566 2010 XH_{86}	15.6	X	318.23811	294.32974	83.52021	15.60671	0.0650195	0.18048794	3.1010154	20	9 24.0	20.0
407567 2010 XJ_{86}	16.7	X	107.42662	306.49848	81.02077	7.85021	0.2546700	0.23061915	2.6335353	20	2 9.8	20.4
407568 2010 YR_{2}	16.0	X	267.49504	6.23979	66.68108	10.51765	0.0724245	0.17404513	3.1770799	20	9 19.1	20.6
407569 2010 YA_{3}	16.8	X	56.11898	136.60308	274.70136	15.45554	0.3220702	0.22057347	2.7129005	20	—	—
407570 2010 YU_{3}	15.6	X	194.12519	104.61310	70.35122	10.34192	0.0774939	0.17760456	3.1344882	20	10 26.2	20.4
407571 2011 AY_{4}	16.4	X	48.06040	295.19703	110.08484	10.17966	0.1707659	0.20896633	2.8124523	20	—	—
407572 2011 AY_{6}	15.9	X	296.95213	144.09891	283.18554	7.69376	0.0926454	0.18176307	3.0864952	20	10 11.2	20.0
407573 2011 AE_{8}	15.5	X	352.25672	83.96826	293.81222	8.97128	0.1061679	0.18440876	3.0569032	20	11 3.7	19.5
407574 2011 AX_{8}	15.9	X	45.17522	222.55749	105.39842	13.11503	0.1232933	0.18411857	3.0601143	20	11 24.7	20.3
407575 2011 AS_{9}	16.1	X	220.14592	199.03099	300.41521	8.12602	0.0842192	0.17598939	3.1536371	20	10 3.0	20.9
407576 2011 AH_{11}	17.1	X	115.76792	218.96930	204.70601	6.03564	0.3020800	0.23569887	2.5955598	20	4 5.4	21.2
407577 2011 AT_{20}	16.8	X	318.59847	98.45685	308.90606	7.67082	0.1812333	0.18292955	3.0733603	20	10 13.1	20.3
407578 2011 AA_{31}	15.7	X	0.37521	64.62837	304.12893	9.83959	0.0908367	0.18004383	3.1061127	20	11 1.5	19.9
407579 2011 AU_{32}	16.3	X	7.31091	300.79109	97.96570	8.49894	0.0565920	0.19185815	2.9772540	20	12 22.1	20.2
407580 2011 AZ_{33}	15.6	X	190.52644	49.09139	105.47969	17.01705	0.0463325	0.17126086	3.2114214	20	10 3.8	20.6
407581 2011 AW_{39}	16.8	X	308.62546	40.40112	51.25066	4.00571	0.0810156	0.18927566	3.0042740	20	12 4.8	20.6
407582 2011 AQ_{44}	16.2	X	237.03015	144.13307	318.44986	4.17791	0.1406860	0.16972438	3.2307739	20	9 2.8	21.0
407583 2011 AE_{46}	16.4	X	294.55915	129.11557	306.72760	9.40707	0.2463678	0.18149272	3.0895596	20	9 26.6	20.2
407584 2011 AL_{47}	15.5	X	296.04861	305.75595	115.37295	17.57512	0.1130307	0.17970334	3.1100350	20	10 11.7	19.8
407585 2011 AA_{48}	16.2	X	10.08344	256.87668	126.80841	11.03092	0.1288227	0.19159963	2.9799314	20	12 16.9	20.1
407586 2011 AD_{48}	15.7	X	191.54667	84.38151	85.39150	11.13879	0.0307087	0.17593435	3.1542949	20	10 22.0	20.4
407587 2011 AF_{55}	16.0	X	76.48710	181.10985	110.78543	11.15272	0.0655401	0.17967435	3.1103695	20	11 10.4	20.6
407588 2011 AE_{56}	17.0	X	319.77831	341.02457	93.95021	3.98495	0.2060959	0.18904409	3.0067269	20	11 28.2	19.8
407589 2011 AG_{61}	15.4	X	313.10715	321.21248	107.49553	11.02303	0.0332497	0.18290830	3.0735983	20	11 16.8	19.7
407590 2011 AU_{65}	16.5	X	262.95390	124.88150	315.58395	12.55196	0.1490408	0.17226955	3.1988733	20	9 1.9	21.1
407591 2011 AF_{68}	16.2	X	344.22533	82.66362	310.72023	8.28325	0.0409374	0.17751962	3.1354880	20	11 6.8	20.6
407592 2011 AK_{72}	16.2	X	37.66254	319.74765	105.70685	13.76407	0.1391097	0.21798840	2.7343060	20	—	—
407593 2011 AH_{75}	15.5	X	281.86355	346.57649	114.52071	11.52090	0.1059388	0.18009117	3.1055684	20	11 7.9	19.7
407594 2011 AT_{75}	16.0	X	20.04032	256.47637	99.10844	5.78672	0.1263212	0.17778016	3.1324238	20	11 22.3	20.0
407595 2011 AR_{76}	15.8	X	292.12081	342.53601	112.21029	10.69905	0.0693100	0.18477519	3.0528604	20	11 18.3	19.9
407596 2011 AL_{78}	16.2	X	273.66322	337.35591	131.60900	12.92418	0.1070180	0.18270349	3.0758949	20	11 7.1	20.5
407597 2011 AQ_{79}	16.0	X	10.64569	63.17883	310.22538	9.00891	0.0843484	0.18514836	3.0487569	20	11 24.9	20.2
407598 2011 BP_{9}	16.0	X	195.44798	212.84569	304.80635	12.25863	0.1258054	0.17138113	3.2099188	20	9 23.1	21.3
407599 2011 BQ_{10}	16.0	X	151.41220	75.16356	132.12046	9.98137	0.0344850	0.17363570	3.1820722	20	10 20.3	20.8
407600 2011 BV_{27}	16.3	X	284.26089	284.66848	149.66265	16.15910	0.1956844	0.17310407	3.1885840	20	9 22.6	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407601 2011 BO_{32}	16.0	X	302.58702	149.09774	279.17666	5.07138	0.1105363	0.18028622	3.1033281	20	10 20.5	19.9
407602 2011 BL_{52}	15.9	X	264.67431	134.81835	336.42748	15.37538	0.2642336	0.17834606	3.1257941	20	9 25.0	20.5
407603 2011 BA_{54}	16.4	X	280.02523	137.86030	319.52731	13.59147	0.1211347	0.17956727	3.1116059	20	10 17.7	20.9
407604 2011 BS_{56}	16.2	X	264.31923	120.88963	15.05920	9.08138	0.0920448	0.18380583	3.0635845	20	11 23.1	20.5
407605 2011 BB_{60}	15.9	X	312.23813	15.43406	71.90384	10.77003	0.0641872	0.18739835	3.0243047	20	12 5.0	19.8
407606 2011 BR_{80}	15.7	X	339.83900	276.99231	131.35511	11.40387	0.1381408	0.18156728	3.0887137	20	11 29.9	19.5
407607 2011 BD_{83}	17.0	X	25.44571	29.93037	92.69729	4.59812	0.1480133	0.21776006	2.7362172	20	1 19.1	19.8
407608 2011 BB_{96}	16.2	X	290.50439	107.04916	318.03036	16.48072	0.0443105	0.17551164	3.1593575	20	9 28.8	20.8
407609 2011 BY_{100}	16.7	X	271.14061	300.65968	166.49429	10.23704	0.2026584	0.17775788	3.1326856	20	10 14.7	20.9
407610 2011 BZ_{102}	16.3	X	284.58295	0.40384	97.07987	8.16565	0.1208123	0.18177045	3.0864117	20	11 4.2	20.3
407611 2011 BH_{115}	16.7	X	258.07290	255.34628	171.09452	0.68286	0.1159005	0.16811731	3.2513303	20	8 17.1	21.4
407612 2011 BX_{116}	16.3	X	276.41499	160.09207	320.03986	9.41899	0.1392889	0.18831281	3.0145059	20	11 13.7	20.4
407613 2011 BC_{118}	16.4	X	10.19711	93.97491	289.36070	8.64457	0.1107206	0.19123623	2.9837054	20	12 13.2	20.2
407614 2011 BB_{120}	16.3	X	1.60884	212.18498	160.05287	5.54528	0.1247949	0.17936953	3.1138924	20	11 16.4	20.2
407615 2011 BH_{122}	16.3	X	324.33094	81.98623	309.84868	13.68916	0.0931540	0.17542221	3.1604311	20	10 2.0	20.6
407616 2011 CP_{1}	15.7	X	251.51027	139.62433	330.41164	14.38975	0.1415745	0.17288339	3.1912968	20	9 23.9	20.5
407617 2011 CG_{4}	15.4	X	211.15120	148.90108	345.85849	12.34828	0.1124977	0.16682230	3.2681350	20	9 16.8	20.5
407618 2011 CR_{7}	15.8	X	263.98166	300.17217	152.84793	27.45110	0.1879339	0.17248488	3.1962105	20	9 19.4	20.4
407619 2011 CZ_{15}	16.4	X	261.45978	358.30274	118.85891	12.11418	0.1353826	0.17747852	3.1359721	20	10 27.5	20.9
407620 2011 CP_{16}	16.2	X	303.93127	125.13173	322.76159	5.29500	0.1244513	0.18237316	3.0796079	20	11 16.6	20.1
407621 2011 CN_{23}	16.5	X	263.27786	182.75846	268.56993	4.03117	0.1402315	0.17367502	3.1815920	20	9 18.8	20.9
407622 2011 CD_{33}	16.6	X	291.66500	217.24033	231.68124	3.76219	0.1939182	0.18354779	3.0664551	20	10 21.9	20.2
407623 2011 CU_{47}	15.7	X	247.40823	327.66067	139.48220	15.47201	0.2476407	0.17500688	3.1654294	20	9 10.5	20.6
407624 2011 CF_{49}	15.5	X	242.42803	131.15817	5.99764	11.16812	0.0488071	0.17859498	3.1228890	20	11 1.1	20.0
407625 2011 CU_{70}	15.8	X	5.70562	65.83239	312.62865	10.60368	0.1432286	0.17854170	3.1235103	20	11 29.3	19.8
407626 2011 CL_{74}	18.0	X	223.43584	330.15284	161.72062	21.19748	0.0705623	0.37975428	1.8885751	20	11 18.5	20.3
407627 2011 CO_{74}	16.4	X	293.57476	44.98603	52.28874	6.46009	0.2518531	0.18528999	3.0472032	20	10 30.0	19.6
407628 2011 CY_{75}	16.0	X	252.32924	108.27342	35.94209	4.26955	0.1773142	0.17818794	3.1276430	20	11 6.6	20.5
407629 2011 CA_{76}	15.8	X	233.18421	150.76393	1.46374	10.94201	0.2125534	0.17401444	3.1774534	20	10 18.8	20.7
407630 2011 CF_{76}	15.8	X	323.55744	101.10850	319.29197	26.76163	0.1825617	0.18692721	3.0293842	20	11 2.1	19.8
407631 2011 CP_{83}	16.3	X	258.94361	304.56809	166.58115	9.91554	0.0634820	0.17248959	3.1961522	20	10 23.2	20.8
407632 2011 CZ_{91}	16.1	X	129.16064	82.49271	162.93213	10.39320	0.0173039	0.17326382	3.1866238	20	11 7.8	20.8
407633 2011 DF	15.4	X	294.74702	70.74698	317.40825	10.75858	0.0455976	0.15935286	3.3694794	20	8 23.9	20.0
407634 2011 DJ_{6}	16.5	X	283.12716	302.74236	129.72229	3.66671	0.0291989	0.17317908	3.1876632	20	10 10.2	20.8
407635 2011 DB_{9}	15.3	X	237.74431	145.28421	12.43513	18.14319	0.1349506	0.17888563	3.1195054	20	11 6.4	20.1
407636 2011 DV_{24}	15.8	X	312.45858	37.23195	71.58515	11.66600	0.2331573	0.19023933	2.9941198	20	12 27.9	18.6
407637 2011 DQ_{31}	17.6	X	2.98278	206.60624	178.30993	21.95653	0.0729460	0.38423729	1.8738567	20	—	—
407638 2011 DP_{41}	15.8	X	298.52284	252.55369	167.30025	16.28248	0.2118868	0.16990400	3.2284965	20	9 21.5	19.5
407639 2011 DZ_{49}	15.6	X	256.92638	111.99299	0.44684	11.15034	0.1778849	0.17126998	3.2113075	20	10 2.3	20.1
407640 2011 EM	15.7	X	258.11242	106.75712	14.02703	26.25958	0.2026947	0.17408777	3.1765610	20	10 10.5	20.1
407641 2011 EF_{16}	15.9	X	272.41624	95.75081	21.92672	8.76123	0.1956690	0.17666145	3.1456339	20	10 27.1	20.1
407642 2011 EQ_{54}	15.9	X	272.01533	119.61160	8.12962	9.95463	0.1844196	0.17912371	3.1167406	20	11 8.4	20.0
407643 2011 EK_{63}	16.0	X	259.42380	22.06768	105.80029	16.41379	0.2302049	0.17486753	3.1671109	20	10 26.5	20.8
407644 2011 EL_{63}	15.5	X	222.30338	126.33156	70.25455	16.17492	0.1612465	0.17644916	3.1481565	20	12 7.2	20.1
407645 2011 EF_{76}	15.5	X	260.97978	107.70630	26.78677	22.05317	0.1702252	0.17467533	3.1694336	20	11 2.2	20.0
407646 2011 FB_{3}	15.3	X	313.88507	64.24167	26.50443	23.41226	0.1302228	0.17953690	3.1119568	20	11 30.3	19.4
407647 2011 FM_{17}	18.1	X	173.01981	58.79590	188.82326	23.29571	0.1135908	0.38723265	1.8641810	20	—	—
407648 2011 FU_{47}	17.5	X	105.69666	302.27041	34.20741	22.84149	0.0191758	0.39164069	1.8501666	20	—	—
407649 2011 FK_{70}	15.9	X	270.08776	97.51729	8.73406	25.06174	0.2308884	0.17493059	3.1663497	20	10 4.1	20.2
407650 2011 FV_{123}	15.7	X	296.26279	249.86826	190.46227	13.69778	0.1425062	0.17082441	3.2168892	20	10 24.2	19.7
407651 2011 GJ_{56}	15.6	X	245.27835	90.65979	90.78870	13.06017	0.1420781	0.17614542	3.1517746	20	12 17.7	19.9
407652 2011 GK_{88}	15.9	X	266.02674	328.17548	178.25705	27.61247	0.1276561	0.18331018	3.0691043	20	12 7.1	20.5
407653 2011 QF_{3}	17.0	X	247.38857	315.42202	172.61905	9.76868	0.5127386	0.33506745	2.0529635	20	9 18.8	19.5
407654 2011 SP_{37}	18.7	X	276.92847	188.49621	183.79161	4.85502	0.1632509	0.31280274	2.1492603	20	7 1.8	20.9
407655 2011 SF_{100}	17.8	X	191.82593	345.98755	33.04622	4.44477	0.1112622	0.29012220	2.2598628	20	4 5.9	21.0
407656 2011 SL_{102}	18.2	X	201.94185	51.78189	59.53604	10.00486	0.4906932	0.30136148	2.2033199	20	8 2.3	22.8
407657 2011 SM_{139}	18.0	X	123.40592	313.49179	184.03960	4.42699	0.0149646	0.30439699	2.1886475	20	6 19.3	20.6
407658 2011 SS_{159}	17.3	X	305.86714	353.62734	239.04230	6.61612	0.0753913	0.28106150	2.3081736	20	2 4.8	20.2
407659 2011 SU_{163}	17.8	X	263.41559	88.67414	241.71010	5.63150	0.1622811	0.29970557	2.2114282	20	4 11.5	20.7
407660 2011 SD_{166}	18.4	X	151.31651	84.88577	339.33112	1.50895	0.1133844	0.28804852	2.2706958	20	4 21.0	21.4
407661 2011 SV_{166}	18.3	X	170.00266	104.21307	322.17771	7.54476	0.0530769	0.29689250	2.2253751	20	5 10.1	21.4
407662 2011 SR_{177}	17.8	X	72.26204	100.61321	14.25687	8.31296	0.0841557	0.28156941	2.3053971	20	3 15.4	20.2
407663 2011 SO_{179}	17.6	X	252.84291	35.66825	262.18293	1.84755	0.1764711	0.28708817	2.2757568	20	2 18.2	21.1
407664 2011 SG_{181}	17.6	X	118.15744	56.83675	354.42444	5.99321	0.1141194	0.27200043	2.3591542	20	2 26.9	20.5
407665 2011 SN_{182}	18.9	X	216.53903	42.70193	1.12642	5.03177	0.1466125	0.30090795	2.2055332	20	6 1.7	22.0
407666 2011 SL_{183}	16.5	X	304.69182	70.40745	22.34347	9.86738	0.0907984	0.22769606	2.6560263	20	12 9.8	19.7
407667 2011 SY_{185}	17.9	X	122.46639	147.02259	0.77102	6.08603	0.0765696	0.30491163	2.1861841	20	7 11.9	20.7
407668 2011 SE_{189}	17.9	X	178.22185	216.51686	177.12991	7.06428	0.1050999	0.28606126	2.2811999	20	4 11.3	21.0
407669 2011 SA_{220}	18.6	X	242.89409	106.99978	203.30932	5.10578	0.2041228	0.29273639	2.2463887	20	2 21.5	22.1
407670 2011 SC_{228}	18.2	X	198.03369	97.16095	297.59729	3.47678	0.1709314	0.29400484	2.2399229	20	4 30.3	21.8
407671 2011 SA_{253}	18.2	X	157.66253	272.05031	164.79134	3.22316	0.1745480	0.29284745	2.2458207	20	5 19.9	21.7
407672 2011 SR_{260}	16.6	X	359.33891	339.03269	227.13219	11.53939	0.1470449	0.28141380	2.3062469	20	3 12.1	18.8
407673 2011 SL_{274}	17.6	X	201.02892	255.10396	143.75266	6.25386	0.0706433	0.30062401	2.2069218	20	5 15.3	20.5
407674 2011 UV_{14}	17.5	X	358.78753	276.36629	344.93542	5.84216	0.0185246	0.30159770	2.2021693	20	6 15.7	20.0
407675 2011 UG_{27}	17.8	X	119.37438	236.19192	201.92236	6.42992	0.0908637	0.27777416	2.3263487	20	3 30.3	20.8
407676 2011 UX_{27}	17.7	X	137.45230	268.19632	197.38792	6.17047	0.0300994	0.29254188	2.2473843	20	5 25.5	20.4
407677 2011 UQ_{28}	17.6	X	268.66412	301.92068	1.13144	5.86339	0.1103068	0.28641126	2.2793411	20	3 20.7	20.7
407678 2011 UE_{38}	18.3	X	148.28259	241.06498	178.26335	2.19075	0.1988956	0.27959835	2.3162192	20	4 19.4	21.9
407679 2011 UD_{42}	18.8	X	263.29535	157.61513	215.84388	4.31395	0.1610581	0.30976905	2.1632699	20	6 14.1	21.3
407680 2011 UT_{42}	17.4	X	68.71547	259.20631	209.99751	12.28227	0.0941591	0.27314499	2.3525592	20	2 26.4	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407681 2011 UC_{47}	18.1	X	284.21163	9.56704	334.15072	3.07582	0.1812864	0.30778384	2.1725620	20	5 26.1	20.5
407682 2011 UN_{49}	17.3	X	340.36067	232.17169	42.77200	8.31694	0.1584371	0.30261541	2.1972292	20	5 26.1	18.8
407683 2011 UJ_{54}	18.3	X	248.08601	279.74982	43.01750	7.03321	0.1098215	0.28584401	2.2823557	20	3 25.9	21.4
407684 2011 UG_{55}	17.7	X	226.05096	2.82812	45.58082	7.22300	0.1494702	0.30132494	2.2034980	20	6 19.0	20.9
407685 2011 UW_{59}	18.3	X	240.23520	156.08305	240.02000	2.54169	0.1415240	0.30599977	2.1809982	20	6 19.8	21.2
407686 2011 UE_{69}	16.6	X	284.37741	210.92373	307.51299	6.35372	0.3060556	0.23802095	2.5786512	20	—	—
407687 2011 UD_{83}	17.5	X	111.00553	210.36233	263.11415	4.55799	0.1010128	0.28282118	2.2985896	20	5 8.8	20.5
407688 2011 UE_{84}	18.1	X	126.34831	48.65892	12.19702	3.79909	0.1726092	0.27244467	2.3565889	20	3 27.5	21.3
407689 2011 UO_{84}	17.1	X	129.42001	49.50372	27.05575	6.96743	0.1033339	0.27736395	2.3286419	20	4 12.5	20.0
407690 2011 UK_{86}	17.6	X	59.35796	286.35949	225.58554	6.01839	0.0580213	0.27965970	2.3158804	20	4 11.2	20.0
407691 2011 UJ_{87}	18.6	X	250.64996	10.21887	22.57830	4.36148	0.1063726	0.30798242	2.1716280	20	7 4.6	21.2
407692 2011 UV_{91}	18.3	X	82.10289	133.00950	338.87585	3.18901	0.2129330	0.27332870	2.3515049	20	4 14.5	20.9
407693 2011 UN_{96}	17.7	X	309.56826	56.58556	210.11206	5.80595	0.0947008	0.29187825	2.2507895	20	3 26.0	20.2
407694 2011 UD_{100}	18.1	X	104.69909	221.11869	242.36315	1.07381	0.1543032	0.27673143	2.3321889	20	4 25.2	21.0
407695 2011 UG_{102}	18.5	X	185.18622	65.88356	347.80593	1.77721	0.1887551	0.29084627	2.2561106	20	5 14.0	22.0
407696 2011 UV_{102}	17.1	X	326.51488	104.93378	69.39301	8.19721	0.1208554	0.25470525	2.4647760	20	—	—
407697 2011 UC_{114}	18.1	X	137.14874	248.42106	179.81703	2.20289	0.1891985	0.27825164	2.3236867	20	4 19.4	21.6
407698 2011 UA_{121}	18.7	X	219.06556	154.30060	198.08921	5.82458	0.2220105	0.29568365	2.2314364	20	3 24.9	22.3
407699 2011 UL_{123}	17.8	X	11.31473	101.99760	30.38611	6.35348	0.1183216	0.26146185	2.4221284	20	—	—
407700 2011 UT_{123}	18.2	X	234.28781	352.70019	29.75760	3.65411	0.0455469	0.30180282	2.2011714	20	6 3.8	20.8
407701 2011 UH_{128}	16.8	X	97.32862	208.78597	245.82499	5.64372	0.1504518	0.27277858	2.3546654	20	3 31.4	19.8
407702 2011 UV_{134}	16.9	X	47.13001	240.56609	263.79962	5.70972	0.0690413	0.27556030	2.3387921	20	3 10.6	19.6
407703 2011 UG_{136}	17.2	X	162.68459	20.52975	251.43150	8.02415	0.1624232	0.24452425	2.5327253	20	—	—
407704 2011 UW_{149}	17.7	X	133.24555	31.18220	74.91012	7.08900	0.0487600	0.28958005	2.2626825	20	5 22.2	20.3
407705 2011 UB_{153}	17.4	X	182.73579	167.73518	215.38636	6.37939	0.1229100	0.28011149	2.3133895	20	3 31.5	20.9
407706 2011 UG_{155}	18.1	X	112.66116	334.35599	123.43356	9.12907	0.0947509	0.28300927	2.2975710	20	4 23.4	21.2
407707 2011 UN_{164}	17.9	X	234.20903	245.08755	102.31492	6.25809	0.1771964	0.29223052	2.2489804	20	4 7.5	21.4
407708 2011 UO_{194}	17.7	X	162.88606	214.30458	224.20411	6.64079	0.0689612	0.28943608	2.2634328	20	5 22.6	20.5
407709 2011 UY_{196}	18.1	X	103.75222	120.09660	335.66015	3.79004	0.1537206	0.27468758	2.3437433	20	4 11.9	21.0
407710 2011 UA_{202}	17.6	X	170.77318	354.50097	71.79423	5.47431	0.1161673	0.28807999	2.2705304	20	5 16.8	20.8
407711 2011 UF_{213}	17.8	X	264.99079	8.68583	256.61856	5.73481	0.0806056	0.27658126	2.3330330	20	1 28.9	21.1
407712 2011 UE_{251}	18.1	X	233.63235	182.07737	203.31376	4.90172	0.1006720	0.29641980	2.2277404	20	6 1.5	20.9
407713 2011 UB_{258}	18.7	X	211.47301	82.43823	308.87408	0.40205	0.0959703	0.29374645	2.2412362	20	5 13.8	21.6
407714 2011 UV_{265}	18.2	X	230.99580	94.17212	239.00051	5.20395	0.2007227	0.28453507	2.2893499	20	3 10.7	22.0
407715 2011 UD_{268}	16.1	X	300.17307	243.93899	212.59866	21.41156	0.0493677	0.22549184	2.6733070	20	12 9.8	19.8
407716 2011 UK_{269}	17.7	X	139.98477	17.06769	37.93792	10.38561	0.1206968	0.27877188	2.3207948	20	3 31.9	21.0
407717 2011 US_{269}	17.9	X	140.19018	7.51775	43.32637	3.71291	0.1483110	0.27711484	2.3300372	20	3 27.7	21.2
407718 2011 UM_{271}	18.7	X	162.04009	143.44992	291.18553	3.90211	0.1855856	0.29352452	2.2423658	20	5 19.9	22.3
407719 2011 UX_{274}	17.9	X	258.73310	49.35053	333.53441	1.33569	0.1693745	0.30786701	2.1721707	20	6 20.4	20.3
407720 2011 UE_{294}	18.3	X	90.20142	9.92610	103.02796	2.30474	0.1312359	0.27312455	2.3526766	20	4 16.9	21.0
407721 2011 UN_{295}	17.4	X	190.39926	271.38522	61.06383	10.11549	0.0682580	0.26858322	2.3791224	20	2 7.3	20.9
407722 2011 UW_{297}	18.0	X	115.08308	259.91742	178.90814	2.63039	0.1413404	0.27556931	2.3387411	20	4 3.2	20.9
407723 2011 UF_{302}	18.2	X	170.58882	263.13896	146.92082	2.12594	0.1506285	0.28570528	2.2830944	20	4 26.3	21.6
407724 2011 UQ_{306}	17.9	X	131.82109	127.26225	321.96591	4.50185	0.2030631	0.28117731	2.3075398	20	5 10.7	21.5
407725 2011 UZ_{307}	18.3	X	234.65392	77.68454	301.24495	5.56692	0.2036005	0.29989379	2.2105028	20	5 12.3	21.6
407726 2011 UQ_{308}	17.9	X	245.55029	198.09893	179.55079	6.17101	0.1007068	0.30050257	2.2075163	20	6 5.9	20.8
407727 2011 UG_{319}	18.3	X	121.89770	322.69259	113.32181	2.30997	0.1538297	0.27348219	2.3506250	20	4 10.3	21.6
407728 2011 UG_{320}	18.7	X	137.83847	333.00083	105.50939	4.06453	0.1492858	0.27905053	2.3192496	20	5 1.2	22.0
407729 2011 UH_{328}	17.7	X	334.92046	290.40828	8.12980	3.66518	0.0678605	0.30555906	2.1830948	20	7 3.7	19.7
407730 2011 UV_{337}	18.0	X	145.41521	357.98283	28.91152	6.75016	0.0895720	0.27310894	2.3527662	20	2 26.8	21.2
407731 2011 UP_{338}	18.2	X	218.87049	166.47212	268.65771	2.16355	0.0492721	0.31186480	2.1535675	20	7 31.0	20.5
407732 2011 UH_{343}	17.3	X	305.58846	262.54706	40.90041	5.49270	0.1132081	0.29830618	2.2183389	20	5 11.4	19.3
407733 2011 UO_{346}	17.8	X	139.76106	7.66464	68.32191	3.95095	0.0883034	0.28692694	2.2766093	20	4 23.1	20.7
407734 2011 US_{356}	18.1	X	130.12535	354.79659	120.79120	2.90366	0.1115625	0.28882718	2.2666128	20	6 7.2	21.2
407735 2011 UJ_{366}	17.9	X	350.28822	114.39394	153.96852	4.21915	0.1048141	0.30400329	2.1905367	20	6 11.9	19.6
407736 2011 UX_{369}	18.6	X	246.88629	358.85400	338.88246	3.81961	0.1594269	0.29745714	2.2225581	20	4 3.9	21.7
407737 2011 UZ_{382}	17.6	X	70.29927	212.03580	281.86796	5.69275	0.1715536	0.27474735	2.3434033	20	4 19.2	20.2
407738 2011 UN_{398}	18.1	X	330.98684	52.85044	254.37708	3.79526	0.1464606	0.31218534	2.1520930	20	7 4.0	19.4
407739 2011 UV_{401}	17.7	X	94.53513	208.30478	225.49131	5.86077	0.1422839	0.26711194	2.3878508	20	2 26.5	20.6
407740 2011 UX_{401}	18.6	X	318.99221	340.60802	316.53652	1.31905	0.2897931	0.30805055	2.1713078	20	4 21.3	20.1
407741 2011 VH_{8}	18.2	X	283.23641	190.31761	163.26546	4.46023	0.2104590	0.30890550	2.1672996	20	6 5.2	20.6
407742 2011 VH_{12}	18.1	X	242.24210	291.43230	69.97147	4.13037	0.1542255	0.29356663	2.2421514	20	5 3.8	21.1
407743 2011 VQ_{16}	17.5	X	144.96835	316.29006	102.56320	4.20016	0.2218507	0.27854418	2.3220594	20	4 18.9	21.2
407744 2011 VS_{16}	17.4	X	101.02277	100.79265	318.47429	3.55450	0.1726397	0.26420857	2.4053122	20	2 23.4	20.2
407745 2011 VQ_{20}	18.4	X	131.28577	38.40388	42.84153	2.34052	0.0148012	0.28179218	2.3041819	20	4 9.6	21.2
407746 2011 VO_{21}	18.2	X	251.42931	293.65807	70.37915	5.35440	0.2001517	0.30043338	2.2078552	20	5 12.3	21.1
407747 2011 WM_{1}	17.6	X	75.71657	107.81556	64.83827	6.15860	0.0272481	0.28812353	2.2703016	20	6 2.3	20.0
407748 2011 WZ_{10}	16.7	X	258.89422	312.56452	226.66440	5.16292	0.1764982	0.23196552	2.6233351	20	—	—
407749 2011 WG_{13}	17.6	X	270.83469	264.21293	84.79799	6.59887	0.2175074	0.30340799	2.1934010	20	5 12.3	20.4
407750 2011 WE_{17}	17.0	X	321.93666	275.17223	244.76971	14.38127	0.0844834	0.24576061	2.5242238	20	—	—
407751 2011 WM_{22}	18.3	X	115.22285	180.06876	237.51976	3.74930	0.1360367	0.26648602	2.3915883	20	3 3.5	21.4
407752 2011 WB_{27}	18.1	X	101.63267	334.72183	106.83516	4.90941	0.1687990	0.27022114	2.3694988	20	3 27.6	21.1
407753 2011 WR_{33}	18.2	X	112.94293	2.82060	100.34922	5.32889	0.1521263	0.27949711	2.3167784	20	5 6.9	21.3
407754 2011 WQ_{35}	17.8	X	179.30452	221.29312	229.10469	4.05511	0.0904503	0.29582001	2.2307506	20	6 28.1	20.9
407755 2011 WO_{42}	16.5	X	54.51843	247.90788	136.07858	4.91646	0.1877511	0.23955405	2.5676374	20	—	—
407756 2011 WM_{48}	16.0	X	161.63270	87.07324	122.03965	16.67443	0.2577410	0.18546972	3.0452342	20	11 3.6	21.7
407757 2011 WW_{54}	17.9	X	115.24342	8.14207	66.79556	6.14876	0.1342376	0.27482076	2.3429860	20	3 31.0	21.0
407758 2011 WE_{57}	17.6	X	60.09031	288.51283	218.12640	4.67138	0.0145282	0.27678880	2.3318666	20	3 30.6	20.5
407759 2011 WZ_{60}	17.8	X	176.10860	342.03317	100.73336	4.65631	0.1091929	0.29183836	2.2509946	20	6 13.9	20.9
407760 2011 WH_{63}	18.3	X	160.53991	10.66242	53.07577	3.10946	0.1347111	0.28181374	2.3040643	20	5 2.9	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407761 2011 WE_{68}	18.6	X	233.97349	86.36748	298.82723	3.28431	0.1764605	0.29734503	2.2231167	20	5 23.6	21.7
407762 2011 WL_{70}	18.4	X	129.71266	43.10030	56.58058	2.56901	0.1491167	0.28102594	2.3083683	20	5 19.1	21.7
407763 2011 WE_{76}	16.5	X	101.34282	125.94252	214.46087	14.15549	0.1732002	0.24269342	2.5454470	20	—	—
407764 2011 WM_{76}	17.2	X	254.36538	299.33493	258.92278	7.66993	0.1102810	0.23831560	2.5765252	20	—	—
407765 2011 WK_{79}	17.7	X	32.31342	235.67526	264.02707	1.53648	0.1314132	0.26284432	2.4136279	20	2 14.4	19.8
407766 2011 WB_{82}	17.7	X	326.87085	48.75847	145.50247	1.79187	0.0999527	0.26041354	2.4286243	20	1 15.2	20.5
407767 2011 WU_{88}	17.8	X	191.29216	317.86420	54.55788	4.40494	0.1324764	0.27721092	2.3294988	20	3 29.8	21.3
407768 2011 WT_{89}	18.0	X	172.62515	315.66929	71.48574	6.86644	0.2091776	0.28019645	2.3129219	20	4 3.6	21.8
407769 2011 WX_{89}	18.2	X	265.89403	21.89987	320.58070	1.98096	0.1671229	0.29653515	2.2271626	20	5 1.7	20.9
407770 2011 WD_{93}	17.8	X	48.79626	3.02506	113.23725	5.09324	0.1703406	0.25814861	2.4428090	20	2 18.1	19.9
407771 2011 WD_{109}	17.8	X	213.95080	16.94436	39.37997	2.02935	0.1474134	0.29568727	2.2314181	20	6 16.9	21.0
407772 2011 WS_{110}	17.9	X	259.21433	114.45617	211.74349	2.78834	0.1349750	0.28867220	2.2674240	20	4 6.2	20.9
407773 2011 WV_{114}	17.8	X	132.56115	338.56835	80.93721	5.56958	0.2208245	0.27345399	2.3507866	20	4 8.9	21.4
407774 2011 WE_{115}	16.4	X	333.87703	307.08805	107.12964	15.39931	0.1878619	0.22034688	2.7147600	20	12 12.4	19.1
407775 2011 WY_{116}	18.1	X	121.08769	267.13103	185.75924	1.91580	0.1667949	0.27750721	2.3278404	20	5 2.7	21.2
407776 2011 WK_{121}	17.6	X	137.91105	103.76175	322.89457	6.46408	0.1120957	0.27405691	2.3473375	20	4 6.9	21.0
407777 2011 WL_{128}	17.6	X	313.72534	208.53360	310.39726	1.08076	0.1489610	0.24258586	2.5461993	20	—	—
407778 2011 WA_{129}	18.1	X	191.14720	114.62095	231.94551	4.19796	0.1662376	0.27262081	2.3555738	20	2 23.2	21.8
407779 2011 WP_{147}	17.9	X	132.19840	87.64630	321.94608	0.97740	0.1608687	0.26926695	2.3750933	20	3 17.6	21.2
407780 2011 WQ_{153}	16.9	X	170.92004	182.64262	97.82793	15.50367	0.1007891	0.24304388	2.5429994	20	—	—
407781 2011 YU_{1}	17.5	X	107.21729	49.25692	53.63492	2.12742	0.1467496	0.26989564	2.3714036	20	4 27.3	20.6
407782 2011 YW_{2}	17.4	X	99.27642	126.94048	334.09316	4.46635	0.0966419	0.26594528	2.3948291	20	4 4.7	20.4
407783 2011 YM_{4}	16.9	X	68.10399	295.15300	94.39079	15.70668	0.1147124	0.23693735	2.5865073	20	—	—
407784 2011 YS_{5}	16.8	X	293.96326	282.40877	268.53335	7.60447	0.1104290	0.23790867	2.5794624	20	—	—
407785 2011 YX_{5}	16.8	X	195.55762	294.43796	98.64514	9.88051	0.0593295	0.27469993	2.3436730	20	5 3.5	20.1
407786 2011 YD_{6}	17.5	X	58.37822	56.34223	337.89868	2.21651	0.0440775	0.23446162	2.6046830	20	—	—
407787 2011 YQ_{7}	16.8	X	343.71177	147.73470	304.18154	11.13939	0.1617397	0.22440258	2.6819509	20	—	—
407788 2011 YA_{9}	17.2	X	253.19976	117.56933	87.51405	8.11914	0.1523466	0.23671589	2.5881202	20	—	—
407789 2011 YT_{17}	17.1	X	130.68305	254.05456	131.93445	5.29089	0.2046897	0.25695709	2.4503548	20	2 22.1	20.5
407790 2011 YL_{18}	18.1	X	130.14229	346.92094	106.89393	5.34157	0.0616732	0.28080089	2.3096015	20	5 3.9	21.0
407791 2011 YT_{19}	17.7	X	86.88035	176.88609	275.46934	1.69289	0.1685657	0.25847288	2.4407655	20	3 19.2	20.6
407792 2011 YX_{19}	16.9	X	350.55900	295.22088	116.53742	6.38746	0.0072732	0.21187026	2.7866947	20	12 17.3	20.6
407793 2011 YF_{20}	17.1	X	108.80075	134.08449	282.24804	6.13437	0.0818476	0.25447485	2.4662635	20	2 15.4	20.3
407794 2011 YH_{21}	17.0	X	18.57726	186.39771	268.89064	13.97240	0.0475658	0.23965350	2.5669271	20	—	—
407795 2011 YJ_{25}	17.6	X	80.22238	346.54200	97.01466	2.30996	0.1550747	0.25378100	2.4707567	20	2 26.2	20.3
407796 2011 YO_{33}	18.3	X	155.83881	141.35741	315.72982	5.30412	0.1869921	0.28248135	2.3004327	20	6 13.6	21.9
407797 2011 YS_{35}	16.8	X	51.21347	312.68409	104.83066	12.41188	0.1545526	0.23687098	2.5869903	20	—	—
407798 2011 YV_{46}	17.7	X	45.09378	345.67803	68.98344	4.48854	0.1313470	0.23363977	2.6107876	20	—	—
407799 2011 YS_{50}	17.2	X	266.11194	257.47380	279.19790	4.01094	0.0927715	0.22234587	2.6984642	20	—	—
407800 2011 YV_{51}	17.3	X	97.30020	156.99275	214.65735	6.80136	0.1277444	0.23870604	2.5737150	20	—	—
407801 2011 YF_{54}	18.0	X	171.21134	186.99717	233.22069	2.81189	0.2230398	0.27895721	2.3197668	20	5 11.4	21.6
407802 2011 YA_{61}	17.1	X	44.29036	205.70358	229.43121	3.52278	0.1957082	0.23895483	2.5719282	20	—	—
407803 2011 YJ_{67}	16.4	X	331.69966	142.20356	314.03129	10.98204	0.0365089	0.21828566	2.7318232	20	—	—
407804 2011 YB_{68}	17.1	X	77.47886	125.53853	332.90845	4.55419	0.1153206	0.25447173	2.4662836	20	3 5.7	19.8
407805 2011 YY_{72}	17.7	X	203.56665	261.86250	138.10574	5.89208	0.1597508	0.28413731	2.2914860	20	5 16.5	21.3
407806 2011 YQ_{73}	17.3	X	296.06803	155.68369	331.57522	3.00933	0.1205635	0.21639827	2.7476844	20	—	—
407807 2011 YP_{75}	17.9	X	196.66680	334.50467	77.27726	5.21437	0.1829470	0.28482483	2.2877970	20	5 23.3	21.4
407808 2012 AK_{3}	17.4	X	359.58699	38.00592	109.03193	3.29828	0.0812443	0.24461496	2.5320992	20	1 6.1	20.3
407809 2012 AC_{4}	17.3	X	171.36876	269.79852	106.37787	7.93619	0.1253309	0.26484166	2.4014775	20	3 17.1	21.0
407810 2012 AN_{4}	16.3	X	218.14104	300.27991	286.96144	12.88948	0.0091279	0.22670540	2.6637582	20	—	—
407811 2012 AZ_{5}	16.8	X	123.78030	104.58387	291.46601	8.59477	0.1558874	0.25523881	2.4613398	20	2 17.7	20.3
407812 2012 AP_{6}	17.8	X	16.75846	270.96501	209.16796	2.04261	0.0671623	0.24050523	2.5608631	20	—	—
407813 2012 AE_{7}	16.5	X	49.16767	148.15603	283.25092	13.94673	0.0679523	0.23739933	2.5831506	20	—	—
407814 2012 AP_{8}	17.5	X	190.16501	255.14530	114.50903	9.49550	0.2325619	0.27014606	2.3699378	20	3 29.5	21.7
407815 2012 AY_{8}	17.1	X	255.52497	198.69033	295.79965	8.16982	0.0790534	0.20527674	2.8460524	20	11 16.8	21.1
407816 2012 AR_{9}	16.3	X	125.87691	18.48763	191.94454	4.52091	0.1112412	0.18326954	3.0695581	20	9 26.9	21.1
407817 2012 AW_{13}	15.8	X	136.98508	50.31802	117.83544	21.06859	0.1137458	0.17316962	3.1877793	20	8 19.3	20.9
407818 2012 AG_{14}	16.9	X	343.48097	8.32984	125.41333	4.61496	0.1096813	0.23040054	2.6352009	20	—	—
407819 2012 AU_{18}	17.2	X	128.80189	241.43867	130.99562	10.40111	0.1011004	0.24527414	2.5275604	20	1 21.0	20.7
407820 2012 AR_{21}	17.6	X	168.16865	16.15304	62.32429	8.31288	0.2039814	0.28233643	2.3012198	20	5 31.6	21.2
407821 2012 BS	17.6	X	120.41216	128.73584	305.21302	5.11675	0.1008745	0.26349091	2.4096777	20	3 26.4	20.9
407822 2012 BT	17.5	X	67.36461	98.56049	102.48465	6.56205	0.0430040	0.28164162	2.3050030	20	7 4.9	20.1
407823 2012 BR_{4}	17.0	X	134.77805	317.68334	91.45555	7.30217	0.1485798	0.25952677	2.4341534	20	3 23.6	20.6
407824 2012 BF_{5}	17.1	X	151.10373	209.79267	112.21092	6.11247	0.1055482	0.23495406	2.6010423	20	—	—
407825 2012 BZ_{12}	16.1	X	176.18058	34.87519	135.86744	18.62528	0.1131054	0.18648775	3.0341416	20	10 4.4	21.1
407826 2012 BG_{13}	16.3	X	141.26299	265.35191	128.95667	21.91232	0.3373069	0.26264776	2.4148320	20	3 30.5	20.9
407827 2012 BR_{15}	18.0	X	134.96483	321.44224	132.25970	5.25122	0.1933065	0.27463909	2.3440191	20	5 22.1	21.6
407828 2012 BX_{15}	16.5	X	344.95444	157.75571	304.90477	10.27959	0.1189472	0.22488795	2.6780906	20	—	—
407829 2012 BS_{17}	16.1	X	220.10523	46.71558	80.09035	9.85395	0.0868412	0.18953799	3.0015013	20	9 28.7	20.7
407830 2012 BG_{18}	16.9	X	135.35499	54.80721	308.47130	8.61047	0.1536773	0.23913782	2.5706160	20	1 25.3	20.5
407831 2012 BN_{18}	16.2	X	216.06664	89.25037	145.81119	14.51045	0.1253364	0.21464414	2.7626340	20	—	—
407832 2012 BF_{19}	16.9	X	100.60163	275.82663	176.19360	2.99249	0.1521788	0.26050037	2.4280847	20	4 5.5	19.9
407833 2012 BJ_{24}	15.4	X	91.75442	107.26952	126.22375	26.45161	0.2377363	0.17509204	3.1644029	20	10 10.8	21.0
407834 2012 BL_{24}	17.1	X	82.15042	314.30688	166.30146	2.67468	0.1176233	0.26034932	2.4290237	20	4 14.2	19.8
407835 2012 BT_{24}	16.0	X	184.54349	206.31627	304.78702	15.64353	0.0291253	0.18469448	3.0537497	20	9 9.6	20.6
407836 2012 BV_{24}	16.0	X	262.02702	232.16347	304.66974	10.41797	0.1358025	0.21598864	2.7511575	20	—	—
407837 2012 BD_{25}	16.3	X	30.19768	293.59879	134.19281	22.50807	0.0382826	0.22763373	2.6565111	20	—	—
407838 2012 BC_{26}	16.2	X	311.67187	200.23435	304.63878	12.46156	0.0504379	0.22783074	2.6549795	20	—	—
407839 2012 BC_{29}	17.3	X	324.47765	307.34219	132.52215	0.83509	0.0465838	0.21356548	2.7719284	20	12 20.3	20.7
407840 2012 BS_{29}	15.7	X	55.49855	114.93382	150.16035	18.75812	0.0742946	0.17912798	3.1166912	20	9 11.6	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407841 2012 BJ_{30}	16.6	X	299.20074	228.54355	275.68295	11.67407	0.2011447	0.22280027	2.6947940	20	—	—
407842 2012 BL_{32}	15.9	X	107.73820	193.78296	104.65527	19.03715	0.2127591	0.21235689	2.7824358	20	—	—
407843 2012 BU_{32}	16.3	X	24.54558	216.68039	251.71006	11.03924	0.2375696	0.24017695	2.5631961	20	—	—
407844 2012 BF_{33}	16.2	X	98.98338	246.04135	335.83210	10.01211	0.0514077	0.18189812	3.0849674	20	9 5.4	20.7
407845 2012 BH_{35}	17.9	X	193.33508	144.19174	272.73665	4.81958	0.1248028	0.29043241	2.2582533	20	5 27.4	21.2
407846 2012 BW_{44}	17.4	X	21.98583	16.79383	91.97741	2.75764	0.0914117	0.23958714	2.5674011	20	—	—
407847 2012 BT_{52}	17.4	X	87.31822	303.55385	130.34756	9.68911	0.0881520	0.24499130	2.5295053	20	2 14.6	20.4
407848 2012 BZ_{52}	16.6	X	291.23702	170.27737	323.43160	15.63869	0.0362156	0.21087495	2.7954564	20	—	—
407849 2012 BC_{54}	16.4	X	330.45243	180.81311	327.94520	12.86381	0.2005599	0.22782813	2.6549997	20	—	—
407850 2012 BL_{54}	17.6	X	139.41829	312.11540	130.79962	5.81399	0.2027167	0.26821622	2.3812922	20	5 13.7	21.4
407851 2012 BW_{54}	16.9	X	297.71323	150.42133	6.14422	4.84783	0.0974727	0.21832073	2.7315306	20	—	—
407852 2012 BV_{55}	16.3	X	216.50113	356.43969	132.18090	10.67492	0.0376290	0.18321872	3.0701256	20	9 29.9	20.8
407853 2012 BC_{60}	18.6	X	180.09555	23.84485	23.69028	2.45216	0.2201169	0.27831544	2.3233315	20	5 2.3	22.3
407854 2012 BF_{62}	16.6	X	250.02435	244.79783	265.63162	3.68175	0.0550222	0.20870153	2.8148308	20	12 5.7	20.5
407855 2012 BV_{64}	16.8	X	31.37930	205.51778	161.96405	4.42587	0.0822315	0.21248563	2.7813118	20	12 23.8	20.6
407856 2012 BS_{66}	16.8	X	108.67923	85.29452	155.46676	8.90238	0.0810551	0.19028227	2.9936693	20	10 17.5	21.4
407857 2012 BM_{68}	16.7	X	47.86410	169.25444	122.45279	11.66837	0.0673491	0.18629475	3.0362368	20	10 8.8	21.1
407858 2012 BN_{69}	16.3	X	160.10334	218.64530	317.19892	10.90656	0.0667973	0.18418813	3.0593439	20	9 14.9	21.1
407859 2012 BJ_{70}	17.5	X	56.98144	294.81600	117.66600	9.76654	0.1834475	0.23534846	2.5981356	20	—	—
407860 2012 BS_{70}	17.2	X	266.05788	217.78664	321.35743	2.09425	0.0557086	0.22006721	2.7170595	20	—	—
407861 2012 BG_{71}	16.2	X	144.86894	44.60325	127.31159	14.67006	0.0845937	0.17722413	3.1389723	20	8 31.2	21.0
407862 2012 BC_{72}	17.4	X	25.74591	176.27110	275.86983	2.61217	0.1844103	0.23468572	2.6030246	20	—	—
407863 2012 BM_{72}	17.0	X	295.30118	296.93521	190.95805	1.40359	0.0374594	0.21183351	2.7870169	20	—	—
407864 2012 BR_{72}	15.4	X	90.17538	280.90712	314.82291	14.57219	0.2006336	0.17496429	3.1659431	20	9 22.4	20.6
407865 2012 BX_{72}	16.7	X	112.24733	71.30105	159.20335	5.48236	0.1625392	0.17777469	3.1324881	20	10 12.2	21.7
407866 2012 BJ_{73}	16.8	X	155.82751	143.58791	236.44921	5.04535	0.1072305	0.25740176	2.4475320	20	2 27.7	20.4
407867 2012 BH_{81}	16.0	X	101.42375	286.05212	315.33560	8.73001	0.0968980	0.18554646	3.0443945	20	10 4.3	20.7
407868 2012 BG_{82}	16.3	X	199.79219	21.04662	119.98962	7.92780	0.1031292	0.18752893	3.0229006	20	9 20.2	21.0
407869 2012 BS_{85}	17.7	X	153.97690	322.60964	69.96894	2.83342	0.1311889	0.26074097	2.4265907	20	3 18.5	21.2
407870 2012 BQ_{86}	15.3	X	175.72775	3.67877	148.97272	29.82531	0.1791221	0.17847070	3.1243386	20	9 5.3	20.5
407871 2012 BB_{90}	16.6	X	170.10957	180.08946	355.84790	3.19827	0.1977599	0.18309536	3.0715045	20	9 26.8	21.9
407872 2012 BM_{90}	16.9	X	318.81617	345.58123	158.36401	12.86786	0.1814038	0.22366171	2.6878702	20	—	—
407873 2012 BM_{91}	16.0	X	117.04394	115.76508	122.74401	7.21867	0.0875467	0.18569339	3.0427884	20	10 23.9	20.7
407874 2012 BN_{91}	17.1	X	149.24451	257.91997	130.52204	9.51630	0.1561536	0.25513414	2.4620129	20	3 12.2	20.8
407875 2012 BD_{92}	17.6	X	92.44657	345.51972	103.55265	2.73465	0.1482073	0.25499880	2.4628840	20	3 22.3	20.5
407876 2012 BL_{93}	16.9	X	260.75990	137.61598	28.35784	2.71466	0.1357890	0.21260949	2.7802314	20	12 29.8	20.3
407877 2012 BT_{93}	17.5	X	98.98038	317.81549	110.95320	2.95081	0.1839472	0.26248715	2.4158169	20	3 8.4	20.4
407878 2012 BN_{100}	17.5	X	313.69273	17.80385	120.84200	3.25395	0.0473495	0.22349006	2.6892463	20	—	—
407879 2012 BD_{103}	17.0	X	112.36906	341.93922	116.00891	7.46273	0.0907016	0.26491140	2.4010560	20	4 22.8	20.2
407880 2012 BE_{103}	17.5	X	348.24339	194.71616	267.41439	1.04525	0.1033511	0.22628903	2.6670248	20	—	—
407881 2012 BP_{103}	15.4	X	109.29168	242.46238	333.96327	24.75977	0.1758006	0.17530111	3.1618864	20	9 14.6	20.6
407882 2012 BG_{104}	17.9	X	66.86162	63.97619	42.25082	3.12139	0.1589893	0.25461871	2.4653344	20	3 8.2	20.4
407883 2012 BQ_{104}	17.2	X	38.32619	263.81018	196.23440	4.73315	0.1293448	0.24285111	2.5443449	20	1 3.9	19.8
407884 2012 BL_{106}	17.5	X	141.64903	2.11512	71.33419	7.06975	0.1000347	0.26742213	2.3860039	20	4 25.1	20.8
407885 2012 BR_{107}	17.1	X	154.30311	207.85262	103.90335	8.58594	0.0565746	0.22838446	2.6506864	20	—	—
407886 2012 BF_{110}	18.1	X	169.81313	266.55272	141.00007	2.63165	0.1811409	0.26955375	2.3734083	20	4 24.2	21.8
407887 2012 BW_{110}	16.2	X	10.67980	349.47079	328.53169	11.75502	0.0602714	0.17927347	3.1150046	20	9 11.0	20.3
407888 2012 BE_{111}	18.2	X	98.11033	283.31621	163.94985	2.42947	0.1773801	0.25697631	2.4502326	20	3 30.9	21.4
407889 2012 BM_{111}	16.4	X	197.86910	352.98330	140.88396	6.04908	0.0792160	0.18172765	3.0868963	20	9 8.5	20.9
407890 2012 BR_{111}	17.2	X	137.83978	71.15638	332.56087	0.79680	0.1792793	0.25680971	2.4512923	20	3 19.1	20.9
407891 2012 BA_{112}	17.9	X	142.29781	128.91123	307.26581	4.31291	0.2067316	0.26850006	2.3796137	20	5 4.2	21.7
407892 2012 BM_{117}	18.7	X	128.94746	188.61304	236.79792	0.69317	0.1671708	0.26320172	2.4114424	20	4 4.9	22.1
407893 2012 BH_{122}	17.3	X	10.67342	328.92305	141.92046	10.84613	0.1077374	0.22920684	2.6443422	20	—	—
407894 2012 BW_{124}	17.6	X	224.59657	253.65012	159.18869	6.57838	0.1030520	0.28677671	2.2774043	20	6 28.2	20.8
407895 2012 BP_{125}	17.5	X	1.72189	190.49153	267.95439	2.77724	0.1477010	0.22685324	2.6626008	20	—	—
407896 2012 BW_{125}	16.3	X	148.83318	26.97685	157.66242	10.95429	0.0476010	0.18018323	3.1045105	20	9 18.1	20.8
407897 2012 BG_{127}	17.5	X	113.98178	3.28623	83.55509	3.19680	0.1353473	0.26398929	2.4066439	20	4 13.8	20.6
407898 2012 BZ_{128}	17.3	X	135.08380	297.28484	113.10697	3.23891	0.1838731	0.25853131	2.4403978	20	3 26.9	20.9
407899 2012 BQ_{136}	17.5	X	297.16850	357.08190	123.65353	5.72208	0.0799390	0.21606993	2.7504674	20	—	—
407900 2012 BV_{136}	17.1	X	78.61978	87.21065	314.72103	8.41757	0.1751290	0.24215566	2.5492140	20	1 2.0	19.8
407901 2012 BN_{142}	17.2	X	340.05855	344.12658	159.10958	10.83535	0.1602464	0.23284756	2.6167060	20	—	—
407902 2012 BR_{142}	17.7	X	159.51613	275.73602	133.82363	3.06392	0.1867879	0.26511372	2.3998343	20	4 18.0	21.5
407903 2012 BO_{143}	16.9	X	39.54460	259.66589	191.28839	8.49340	0.1316111	0.23891591	2.5722075	20	—	—
407904 2012 BK_{144}	17.6	X	76.46344	11.70472	51.58752	1.48341	0.1212492	0.24167972	2.5525597	20	1 19.9	20.5
407905 2012 BB_{145}	17.2	X	249.03761	225.47435	344.28577	1.23276	0.0224738	0.22351422	2.6890525	20	—	—
407906 2012 BG_{145}	16.6	X	28.91345	188.43984	137.50032	10.56437	0.0669310	0.18908943	3.0062463	20	10 26.3	20.8
407907 2012 BJ_{149}	16.6	X	208.33462	229.92918	352.48633	5.96156	0.0344706	0.21220073	2.7838007	20	—	—
407908 2012 BK_{149}	16.8	X	329.47327	77.07386	15.03766	3.98397	0.0726452	0.21250444	2.7811477	20	—	—
407909 2012 BT_{150}	16.4	X	229.69440	128.27758	113.32542	14.52747	0.0412875	0.22529038	2.6749004	20	—	—
407910 2012 BU_{152}	15.6	X	177.22252	4.65513	159.17039	22.54420	0.0604086	0.17993013	3.1074212	20	9 24.9	20.3
407911 2012 CF_{6}	16.3	X	226.82520	53.25173	102.96288	12.37575	0.1086040	0.19725453	2.9227033	20	11 9.3	20.7
407912 2012 CV_{6}	16.5	X	159.40651	238.75264	294.76763	4.56669	0.0966354	0.18131378	3.0915920	20	9 13.1	21.3
407913 2012 CC_{7}	17.0	X	313.62545	146.51171	306.36543	5.83143	0.0493539	0.20837030	2.8178130	20	12 20.3	20.6
407914 2012 CC_{8}	16.5	X	146.52520	233.74186	306.25686	5.87292	0.1061068	0.17821992	3.1272688	20	9 7.9	21.5
407915 2012 CR_{8}	17.3	X	76.72090	218.61014	144.95279	7.18923	0.0407311	0.21859348	2.7292579	20	—	—
407916 2012 CA_{9}	18.0	X	115.50423	306.03966	134.55008	2.15054	0.1597980	0.26075270	2.4265179	20	4 10.2	21.4
407917 2012 CH_{10}	16.2	X	133.44675	230.22688	321.94130	9.36572	0.1430166	0.17529905	3.1619112	20	9 10.7	21.3
407918 2012 CU_{11}	16.9	X	3.14590	158.62613	336.53345	9.06385	0.1255662	0.23621607	2.5917698	20	—	—
407919 2012 CR_{12}	16.7	X	78.58434	21.11504	345.71287	6.25212	0.0320694	0.21798215	2.7343584	20	—	—
407920 2012 CJ_{15}	17.3	X	121.17685	286.20947	150.71857	5.13478	0.1609454	0.26074554	2.4265624	20	4 13.0	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
407921 2012 CJ_{16}	16.1	X	81.74222	94.18060	137.09155	16.23643	0.0424049	0.17312782	3.1882924	20	8 27.3	20.6
407922 2012 CP_{18}	16.2	X	290.46658	280.27404	262.33275	13.43696	0.0672659	0.22740818	2.6582674	20	—	—
407923 2012 CC_{19}	15.3	X	238.06833	282.46817	128.35029	26.37932	0.2541260	0.17552778	3.1591638	20	6 25.2	20.8
407924 2012 CM_{24}	16.8	X	279.85963	55.38203	175.11598	10.21352	0.0787755	0.23648827	2.5897807	20	1 8.8	20.6
407925 2012 CO_{24}	17.2	X	228.06607	135.13908	198.56315	5.11456	0.0764771	0.25635433	2.4541943	20	3 18.8	20.7
407926 2012 CT_{27}	16.0	X	69.83524	146.18887	115.10825	10.35619	0.0725799	0.18182842	3.0857557	20	9 27.9	20.5
407927 2012 CD_{28}	16.5	X	66.22539	72.16266	274.25871	5.35069	0.0707500	0.20840255	2.8175223	20	—	—
407928 2012 CP_{29}	16.8	X	58.33617	213.47923	143.84422	7.02493	0.0545359	0.21120974	2.7925016	20	—	—
407929 2012 CP_{31}	17.0	X	76.62488	242.09445	112.88074	7.60166	0.0364932	0.21772040	2.7365495	20	—	—
407930 2012 CP_{32}	17.2	X	359.26019	134.80726	295.87914	7.69913	0.1335260	0.21806008	2.7337069	20	—	—
407931 2012 CZ_{32}	16.1	X	135.70300	288.26840	297.43033	5.99358	0.1224838	0.18514467	3.0487975	20	10 22.9	21.0
407932 2012 CC_{34}	17.5	X	25.70390	312.39797	129.24809	4.80988	0.0559179	0.22869673	2.6482729	20	—	—
407933 2012 CV_{34}	17.1	X	236.97236	44.81868	136.31246	5.15183	0.0115401	0.21016901	2.8017126	20	—	—
407934 2012 CF_{37}	15.9	X	56.30097	173.18500	146.45097	11.51768	0.1129232	0.19247687	2.9708703	20	11 27.8	20.3
407935 2012 CY_{37}	17.4	X	4.82777	0.81060	124.75701	4.60903	0.1200963	0.23448692	2.6044956	20	—	—
407936 2012 CV_{40}	15.6	X	41.61849	171.66687	145.76415	22.95784	0.1096493	0.18655506	3.0334117	20	11 9.8	20.2
407937 2012 CZ_{40}	16.6	X	169.61392	207.33536	325.60538	16.33623	0.1473174	0.18128003	3.0919757	20	9 17.7	21.9
407938 2012 CH_{42}	16.7	X	179.47356	232.61143	341.31380	7.17978	0.0140530	0.20015973	2.8943536	20	11 29.9	20.9
407939 2012 CN_{42}	16.4	X	118.33913	97.21937	147.72829	10.97253	0.0143062	0.19018798	2.9946587	20	10 29.3	20.8
407940 2012 CZ_{44}	16.4	X	175.87611	181.92283	351.49925	5.33064	0.0889355	0.18208562	3.0828492	20	10 1.1	21.1
407941 2012 CA_{45}	17.2	X	68.26204	267.43520	154.33032	12.10675	0.1086276	0.23254902	2.6189449	20	1 4.4	20.4
407942 2012 CG_{45}	15.8	X	86.45039	122.28300	149.30537	11.64840	0.0932833	0.18170958	3.0871009	20	10 31.7	20.5
407943 2012 CE_{50}	17.5	X	3.48418	290.71722	161.97239	10.30181	0.2641886	0.22796432	2.6539422	20	—	—
407944 2012 CJ_{51}	17.3	X	22.71797	189.42878	289.71909	2.22894	0.1684875	0.23780923	2.5801815	20	1 2.1	19.4
407945 2012 DA	17.3	X	308.39966	8.40153	109.53430	6.26187	0.1211375	0.21102997	2.7940872	20	—	—
407946 2012 DF	16.1	X	316.72514	87.10549	353.69851	14.52508	0.1280246	0.20415444	2.8564733	20	12 3.8	19.7
407947 2012 DH	17.2	X	43.48370	252.03404	142.42418	6.50544	0.0542140	0.21682560	2.7440731	20	—	—
407948 2012 DF_{5}	17.1	X	86.84297	274.51421	145.63626	13.89908	0.1531476	0.24206992	2.5498160	20	2 4.3	20.0
407949 2012 DJ_{5}	15.9	X	147.48762	189.98964	334.59854	22.04116	0.0552584	0.17153017	3.2080592	20	8 22.5	20.6
407950 2012 DM_{6}	17.4	X	92.70864	332.26774	141.19348	4.03084	0.1545750	0.26011165	2.4305031	20	4 26.2	20.4
407951 2012 DU_{6}	16.0	X	195.90793	185.79224	342.32325	10.07321	0.0246961	0.18558084	3.0440185	20	10 18.1	20.4
407952 2012 DC_{8}	17.8	X	156.89572	38.45999	48.15112	4.31908	0.2221925	0.27802828	2.3249310	20	6 1.8	21.5
407953 2012 DC_{9}	17.2	X	47.48047	21.82543	22.44219	1.99356	0.0729932	0.22099842	2.7094217	20	—	—
407954 2012 DQ_{9}	16.8	X	179.67263	72.09339	149.13232	2.85949	0.1508448	0.19603058	2.9348562	20	11 30.7	21.5
407955 2012 DB_{10}	17.6	X	8.84907	48.46929	25.47291	3.31232	0.0990058	0.21844431	2.7305003	20	—	—
407956 2012 DM_{12}	16.7	X	323.06343	128.61064	24.35911	5.15285	0.0978956	0.22415025	2.6839633	20	—	—
407957 2012 DF_{15}	16.4	X	46.57317	119.43527	341.88675	14.55871	0.1559364	0.23419639	2.6066492	20	1 30.0	19.2
407958 2012 DP_{17}	16.9	X	220.81595	147.45852	20.63524	5.91307	0.1152212	0.19131011	2.9829371	20	11 9.4	21.2
407959 2012 DQ_{18}	16.5	X	101.23599	79.15805	145.64167	11.36431	0.0478222	0.17578512	3.1560798	20	9 13.3	21.0
407960 2012 DA_{20}	15.3	X	185.77394	129.79768	2.55451	16.94379	0.0895327	0.17257720	3.1950704	20	8 27.9	20.3
407961 2012 DR_{21}	16.9	X	316.92249	337.16413	156.14854	3.82041	0.1400662	0.21642098	2.7474923	20	—	—
407962 2012 DO_{22}	16.0	X	192.15734	158.88460	42.41946	10.76014	0.1047516	0.19180860	2.9777667	20	11 20.0	20.5
407963 2012 DV_{23}	17.0	X	357.55743	88.02143	356.18967	6.58806	0.1933650	0.21636435	2.7479717	20	—	—
407964 2012 DX_{23}	16.2	X	274.32860	294.71608	167.18828	11.01688	0.0604951	0.18880287	3.0092873	20	11 4.6	20.4
407965 2012 DH_{24}	16.0	X	115.53158	265.92839	350.32976	13.92383	0.0684455	0.18467027	3.0540166	20	11 2.4	20.8
407966 2012 DO_{25}	17.1	X	40.93646	336.01660	140.92445	5.17494	0.2512920	0.24017767	2.5631910	20	2 11.5	18.6
407967 2012 DT_{29}	17.1	X	22.08821	304.90281	156.82066	13.42095	0.1117775	0.23642522	2.5902410	20	—	—
407968 2012 DJ_{33}	16.0	X	349.73033	218.76381	166.17205	9.59584	0.0860262	0.18881807	3.0091258	20	11 14.5	19.9
407969 2012 DY_{35}	15.4	X	28.24682	294.75351	8.30027	10.13117	0.0960077	0.17089116	3.2160515	20	9 23.5	19.6
407970 2012 DK_{37}	15.9	X	188.46952	14.34903	171.59269	10.24333	0.0617812	0.18614114	3.0379070	20	11 3.8	20.5
407971 2012 DH_{39}	16.3	X	23.93326	328.60306	0.95386	9.05010	0.0766391	0.17532125	3.1616443	20	10 16.2	20.6
407972 2012 DP_{40}	16.7	X	175.61563	204.96106	355.20728	6.30352	0.0213142	0.18515580	3.0486752	20	11 4.5	21.2
407973 2012 DV_{40}	16.9	X	256.19149	214.03506	318.23944	2.73864	0.0347646	0.20982672	2.8047588	20	—	—
407974 2012 DO_{43}	16.2	X	21.63934	138.15914	178.99748	7.86722	0.0325234	0.17117235	3.2125284	20	9 24.2	20.6
407975 2012 DS_{43}	16.8	X	262.97342	336.69597	104.25354	3.48820	0.0206385	0.18093979	3.0958506	20	9 27.7	21.2
407976 2012 DB_{45}	15.8	X	238.08391	299.43849	170.94196	26.87219	0.1282999	0.17893780	3.1188991	20	9 17.3	20.5
407977 2012 DV_{47}	17.2	X	113.68606	106.94503	187.21643	1.95091	0.0146431	0.20171655	2.8794422	20	12 21.5	21.2
407978 2012 DW_{47}	16.8	X	192.31863	309.58206	213.00260	0.88297	0.1255450	0.18538384	3.0461746	20	10 3.7	21.6
407979 2012 DW_{48}	17.1	X	12.47457	204.20909	257.28658	2.63238	0.0619257	0.22597222	2.6695169	20	—	—
407980 2012 DT_{49}	15.7	X	70.19876	309.12885	10.81772	11.86371	0.1249359	0.18646647	3.0343724	20	12 9.6	20.4
407981 2012 DT_{52}	16.6	X	359.17069	86.42929	1.14684	3.17315	0.0674003	0.21001042	2.8031230	20	—	—
407982 2012 DV_{53}	15.2	X	342.21363	140.53150	177.90152	14.96398	0.1125790	0.15386849	3.4490772	20	7 28.3	19.8
407983 2012 DL_{55}	16.9	X	272.74102	146.48677	359.75171	1.63530	0.0202007	0.20491471	2.8494036	20	—	—
407984 2012 DB_{60}	16.1	X	150.38374	49.37879	151.56604	10.34633	0.0426794	0.18274353	3.0754455	20	10 11.9	20.7
407985 2012 DG_{60}	16.1	X	161.80066	25.57121	164.99950	13.30759	0.1234063	0.17684917	3.1434075	20	10 9.8	21.1
407986 2012 DA_{65}	16.6	X	187.25816	163.37683	0.31276	3.52454	0.1187821	0.18224222	3.0810829	20	9 30.1	21.3
407987 2012 DH_{65}	16.7	X	177.51640	119.91367	148.70087	5.03845	0.0147588	0.21323151	2.7748220	20	—	—
407988 2012 DH_{70}	16.2	X	291.33019	130.11723	290.34847	9.31669	0.0626914	0.18696724	3.0289518	20	9 27.5	20.5
407989 2012 DO_{70}	17.0	X	337.84062	174.86399	282.40889	7.11639	0.1869142	0.21756492	2.7378531	20	—	—
407990 2012 DW_{70}	16.5	X	85.30140	31.41509	194.61412	10.65854	0.0458618	0.16930678	3.2360843	20	8 20.9	21.2
407991 2012 DU_{71}	15.5	X	97.48559	345.83114	297.24617	9.38980	0.0938313	0.19076473	2.9886197	20	11 22.4	20.1
407992 2012 DS_{72}	17.3	X	86.77573	109.81922	180.15931	7.44718	0.0433531	0.18961516	3.0006868	20	11 16.6	21.7
407993 2012 DA_{75}	17.0	X	192.19058	231.45077	323.88590	3.96491	0.0641348	0.19406538	2.9546362	20	11 16.7	21.5
407994 2012 DZ_{76}	15.9	X	129.61172	295.90349	320.41184	9.61840	0.0401900	0.18857673	3.0116927	20	11 19.9	20.5
407995 2012 DX_{77}	15.1	X	141.26165	144.83315	32.05521	18.41713	0.0862192	0.17014607	3.2254336	20	9 8.9	20.3
407996 2012 DG_{78}	16.6	X	299.31552	270.50494	215.46929	13.43913	0.1989992	0.21024993	2.8009937	20	—	—
407997 2012 DS_{78}	16.9	X	14.35543	144.34562	337.20632	13.30402	0.2341710	0.23482347	2.6020065	20	—	—
407998 2012 DK_{80}	16.2	X	174.31297	185.03777	2.32446	10.26849	0.0423136	0.18472184	3.0534482	20	10 17.0	20.8
407999 2012 DP_{82}	16.1	X	173.32163	13.74128	148.35415	7.89161	0.1161649	0.17278994	3.1924474	20	9 15.4	21.1
408000 2012 DJ_{83}	16.7	X	236.66757	50.30425	164.97622	13.08824	0.0572424	0.21311549	2.7758290	20	—	—