Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320001 2007 DW_{27}	14.5	X	26.95634	86.98857	143.40273	9.42254	0.1404990	0.08342596	5.1872268	21	6 15.8	20.8
320002 2007 DJ_{29}	16.1	X	158.39472	188.54195	134.11827	2.87963	0.0765467	0.19695914	2.9256248	21	—	—
320003 2007 DP_{30}	16.1	X	19.16392	306.56347	157.25094	12.35807	0.0528296	0.19929604	2.9027097	21	—	—
320004 2007 DY_{33}	15.7	X	52.69107	167.08595	164.42229	16.86762	0.1097245	0.17703543	3.1412024	21	11 27.4	20.4
320005 2007 DJ_{35}	15.2	X	134.42715	99.79007	164.42568	16.20194	0.0796774	0.17966531	3.1104739	21	12 2.8	20.2
320006 2007 DS_{35}	15.7	X	135.84290	274.24464	343.65852	10.08768	0.0346019	0.18012660	3.1051612	21	11 19.7	20.4
320007 2007 DD_{38}	16.4	X	31.93648	119.67652	328.74015	4.94414	0.0446476	0.19728183	2.9224336	21	—	—
320008 2007 DQ_{38}	15.5	X	99.50756	321.71648	6.05173	10.61743	0.1634216	0.18287066	3.0740201	21	—	—
320009 2007 DU_{38}	15.5	X	103.10723	159.69482	168.44439	13.88819	0.0608169	0.18507456	3.0495674	21	—	—
320010 2007 DL_{39}	15.3	X	158.89758	114.19324	135.28318	5.50689	0.0302800	0.18050220	3.1008520	21	12 9.1	19.9
320011 2007 DC_{47}	16.5	X	41.78343	253.81596	257.29225	3.07632	0.0752656	0.21377205	2.7701424	21	3 9.9	19.9
320012 2007 DE_{49}	16.9	X	140.59594	159.29792	212.74117	3.61032	0.0825651	0.20658438	2.8340297	21	1 27.7	20.9
320013 2007 DA_{53}	17.0	X	282.59092	309.49771	300.61406	3.06393	0.1250515	0.27259963	2.3556958	21	1 15.7	20.4
320014 2007 DP_{54}	16.4	X	146.61142	60.81090	223.99358	0.88539	0.1546201	0.18647893	3.0342373	21	—	—
320015 2007 DG_{56}	17.7	X	315.42300	301.67897	158.50801	0.97134	0.1617011	0.25869371	2.4393763	21	—	—
320016 2007 DW_{58}	17.7	X	303.25640	253.43133	165.35711	23.44668	0.0603053	0.38036342	1.8865583	21	11 19.9	19.9
320017 2007 DG_{61}	16.8	X	174.18399	105.10178	19.97664	21.18751	0.0656839	0.37162775	1.9160079	21	8 14.4	19.6
320018 2007 DZ_{64}	16.6	X	15.68758	60.48486	344.38182	8.84631	0.0825846	0.18868331	3.0105584	21	—	—
320019 2007 DE_{69}	17.5	X	308.26813	301.46784	151.45811	1.77225	0.2363963	0.18840649	3.0135065	21	11 12.2	20.4
320020 2007 DO_{71}	16.6	X	310.52617	293.68854	154.12639	6.72147	0.1418840	0.18474154	3.0532311	21	11 19.9	20.3
320021 2007 DQ_{74}	16.2	X	152.60630	77.87285	161.66600	5.04129	0.1101591	0.17849113	3.1241002	21	11 20.9	21.2
320022 2007 DZ_{74}	16.0	X	32.78572	70.50074	344.96787	9.26190	0.0399048	0.19183824	2.9774600	21	—	—
320023 2007 DT_{75}	16.3	X	239.01803	212.43738	35.95246	1.91318	0.0419603	0.19625559	2.9326126	21	—	—
320024 2007 DY_{75}	16.8	X	252.55415	81.72315	170.54655	2.18532	0.0178128	0.20147393	2.8817534	21	1 7.9	20.8
320025 2007 DT_{76}	16.0	X	40.35042	118.18263	345.74889	14.20790	0.1040380	0.20573382	2.8418355	21	1 12.9	19.6
320026 2007 DA_{86}	16.2	X	188.96907	301.83512	340.45602	8.27400	0.0742231	0.19587690	2.9363911	21	—	—
320027 2007 DB_{91}	15.6	X	152.13364	72.24429	152.00425	12.36652	0.0176802	0.17971143	3.1099417	21	11 4.3	20.2
320028 2007 DJ_{92}	16.8	X	96.10650	20.24032	84.20402	1.54243	0.0251180	0.21466276	2.7624743	21	3 22.2	20.5
320029 2007 DO_{94}	15.9	X	65.35959	259.81044	118.24807	7.77569	0.0384422	0.19073292	2.9889521	21	—	—
320030 2007 DC_{96}	16.4	X	315.21947	121.43167	4.70010	8.81685	0.0898487	0.19178657	2.9779947	21	—	—
320031 2007 DC_{97}	16.4	X	283.30128	59.91285	174.98848	9.17297	0.1530179	0.20080023	2.8881955	21	1 6.9	20.9
320032 2007 DK_{97}	17.1	X	337.31613	326.06367	177.47476	6.13189	0.0844425	0.26552108	2.3973791	21	—	—
320033 2007 DS_{97}	17.6	X	38.61187	354.92906	176.17231	3.31764	0.1420063	0.28151808	2.3056773	21	3 25.5	19.5
320034 2007 DE_{98}	16.7	X	25.54499	327.11632	134.92333	5.89334	0.1339654	0.20412342	2.8567627	21	—	—
320035 2007 DS_{105}	16.3	X	153.77366	272.69954	175.91770	11.35493	0.0160665	0.22048100	2.7136590	21	5 15.0	20.2
320036 2007 DZ_{105}	16.7	X	174.84515	235.23723	17.92286	0.65936	0.0823544	0.18454512	3.0553972	21	12 28.5	21.4
320037 2007 DQ_{107}	16.8	X	240.07928	353.20824	303.68333	2.59709	0.0723562	0.21392770	2.7687986	21	2 10.9	20.9
320038 2007 DV_{108}	17.1	X	10.95043	310.79453	119.81714	3.24057	0.0783058	0.19745795	2.9206956	21	—	—
320039 2007 DA_{109}	15.9	X	119.00149	117.16332	180.83418	14.15770	0.2077807	0.17553092	3.1591262	21	12 28.9	21.5
320040 2007 DB_{112}	16.0	X	136.42995	241.22607	5.14446	18.50870	0.0730736	0.17630316	3.1498943	21	11 4.2	21.0
320041 2007 DP_{112}	16.2	X	179.97655	118.42968	177.29961	8.32901	0.2069827	0.18677611	3.0310179	21	—	—
320042 2007 DR_{114}	16.1	X	300.24558	60.63399	125.60855	3.20423	0.0098291	0.19396901	2.9556147	21	—	—
320043 2007 DS_{114}	16.2	X	154.01558	158.27843	126.09972	3.68348	0.0289580	0.18400837	3.0613360	21	—	—
320044 2007 DL_{116}	15.2	X	26.91003	242.38070	174.47692	10.66672	0.0131015	0.18606233	3.0387648	21	—	—
320045 2007 DQ_{116}	15.2	X	45.48547	302.19286	34.95331	15.66753	0.0294739	0.17944566	3.1130116	21	11 9.6	19.6
320046 2007 DB_{117}	15.0	X	139.91438	219.23527	31.09727	19.18748	0.1531548	0.17645081	3.1481370	21	11 17.2	20.3
320047 2007 DH_{117}	13.2	X	321.94145	310.11411	350.75512	11.83679	0.1242575	0.08263866	5.2201207	21	5 28.3	19.8
320048 2007 ED_{1}	16.4	X	15.02668	345.59768	188.21793	7.81563	0.1560082	0.21196671	2.7858492	21	2 23.3	19.5
320049 2007 EY_{1}	17.2	X	346.53584	309.01566	169.79209	0.43591	0.1414069	0.19692008	2.9260117	21	—	—
320050 2007 EQ_{2}	16.4	X	207.20286	189.93918	132.29681	7.60276	0.0563292	0.21273097	2.7791729	21	2 7.6	20.3
320051 2007 EZ_{2}	17.8	X	50.18416	99.23027	117.79486	2.81137	0.1132217	0.29201991	2.2500616	21	6 27.2	19.8
320052 2007 EA_{7}	17.8	X	277.70525	249.89998	354.52506	0.86690	0.1548522	0.27101092	2.3648931	21	1 1.1	21.3
320053 2007 EG_{9}	15.5	X	181.81401	126.67928	176.04997	10.67441	0.0924831	0.19314784	2.9639860	21	—	—
320054 2007 EO_{15}	16.0	X	41.24347	322.82260	123.85329	3.17053	0.0844724	0.19685204	2.9266858	21	—	—
320055 2007 EK_{18}	15.7	X	275.45756	46.57758	166.45203	6.28185	0.0419194	0.19726031	2.9226462	21	—	—
320056 2007 ED_{21}	16.4	X	147.82264	189.66219	172.08679	12.57058	0.0892210	0.20136099	2.8828308	21	1 24.3	20.8
320057 2007 EH_{21}	15.8	X	348.15541	95.06761	1.40493	9.91792	0.0932949	0.19123363	2.9837324	21	—	—
320058 2007 EQ_{22}	16.4	X	213.92761	55.28235	139.77057	1.73406	0.1107162	0.18245300	3.0787095	21	11 27.9	21.0
320059 2007 EV_{25}	15.3	X	140.24523	227.71663	17.24004	17.47783	0.1869251	0.17357363	3.1828308	21	11 11.1	20.8
320060 2007 ET_{26}	16.3	X	304.46227	98.15852	156.37630	8.03482	0.1381748	0.21093649	2.7949127	21	2 24.2	20.2
320061 2007 EM_{29}	15.6	X	251.77178	128.59660	350.12266	9.04796	0.0384291	0.17495608	3.1660421	21	10 15.0	20.1
320062 2007 EP_{29}	15.5	X	263.82410	34.59659	152.63273	11.35841	0.0625472	0.19137250	2.9822887	21	—	—
320063 2007 EN_{32}	16.9	X	213.91556	11.47898	245.51788	1.01247	0.0495027	0.19684486	2.9267570	21	—	—
320064 2007 EW_{34}	16.0	X	99.31176	264.12540	207.47513	4.77390	0.0239146	0.21291096	2.7776064	21	4 3.3	19.8
320065 2007 EW_{38}	15.8	X	303.56456	283.06285	197.51531	10.06184	0.0733333	0.18858182	3.0116385	21	12 24.5	19.8
320066 2007 EA_{40}	13.4	X	354.33351	243.04567	33.12290	8.90922	0.1212408	0.08233528	5.2329358	21	6 17.8	19.7
320067 2007 EL_{40}	17.8	X	313.65913	15.49965	10.20226	19.03713	0.0630098	0.37612762	1.9006956	21	10 5.4	18.8
320068 2007 EH_{42}	16.4	X	280.75196	28.48430	173.31634	0.84656	0.1458804	0.19410118	2.9542728	21	—	—
320069 2007 EL_{43}	16.7	X	327.39313	45.29655	210.98659	1.18572	0.1604990	0.21093916	2.7948890	21	3 26.4	20.2
320070 2007 EZ_{43}	15.8	X	84.09455	122.24909	185.27493	10.86721	0.1007872	0.17553296	3.1591016	21	12 1.6	20.6
320071 2007 EF_{45}	16.2	X	194.55836	61.26161	188.01544	5.94344	0.1695347	0.18321421	3.0701760	21	—	—
320072 2007 EY_{48}	15.6	X	316.69265	91.95329	188.45841	12.19555	0.1454358	0.21109015	2.7935562	21	4 15.4	19.2
320073 2007 EF_{51}	16.3	X	220.21892	301.79471	285.29935	0.49367	0.0691889	0.18618818	3.0373952	21	—	—
320074 2007 EL_{51}	16.0	X	287.64372	354.45343	152.33626	2.20701	0.1609294	0.18600715	3.0393656	21	12 24.5	19.6
320075 2007 EN_{51}	15.7	X	145.17567	100.14476	188.31632	9.28085	0.0804662	0.18051815	3.1006695	21	—	—
320076 2007 EF_{54}	15.8	X	111.80615	113.15726	192.41515	11.00948	0.0281298	0.17810142	3.1286558	21	12 21.3	20.5
320077 2007 EY_{62}	16.2	X	193.07632	99.24554	121.12821	2.88201	0.1121476	0.18237611	3.0795748	21	12 6.5	20.9
320078 2007 EH_{63}	16.7	X	317.97393	290.62719	17.26614	2.77984	0.0845356	0.22334938	2.6903754	21	5 31.4	20.0
320079 2007 ER_{63}	16.3	X	129.57950	229.99279	50.56306	1.37533	0.1531866	0.18029862	3.1031858	21	12 17.2	21.3
320080 2007 EL_{66}	16.6	X	281.28232	340.04128	158.28713	6.92622	0.1453637	0.18613709	3.0379510	21	12 7.3	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320081 2007 EY_{67}	16.4	X	25.08156	310.38700	133.18992	3.09501	0.1033128	0.19567341	2.9384265	21	—	—
320082 2007 EZ_{73}	15.5	X	137.25024	95.04008	164.80558	12.28555	0.1137689	0.17830523	3.1262713	21	11 30.9	20.6
320083 2007 ER_{74}	15.8	X	295.73763	119.88571	358.96197	8.74989	0.0878496	0.18371932	3.0645461	21	12 7.9	19.9
320084 2007 EY_{74}	17.5	X	40.54149	296.03310	198.15441	2.17510	0.1105802	0.27549365	2.3391693	21	1 30.8	19.7
320085 2007 EO_{78}	15.8	X	36.34506	172.16228	172.83748	9.43315	0.0898918	0.17508303	3.1645115	21	11 18.9	20.2
320086 2007 EC_{80}	15.7	X	239.68016	0.75046	190.51907	19.83821	0.2564343	0.18472774	3.0533831	21	12 4.3	20.7
320087 2007 EP_{85}	14.7	X	59.10998	344.03609	356.38667	18.19950	0.1246387	0.17622594	3.1508144	21	12 12.6	19.5
320088 2007 EX_{87}	15.7	X	260.61645	41.99169	141.57947	8.48279	0.0648622	0.18605570	3.0388370	21	—	—
320089 2007 EU_{89}	18.3	X	101.01850	232.33233	53.85878	1.40228	0.0747564	0.31805159	2.1255484	21	12 14.6	20.8
320090 2007 EZ_{91}	16.8	X	328.47332	8.49672	205.63105	3.19594	0.0465973	0.21054740	2.7983549	21	2 16.5	20.4
320091 2007 EF_{96}	15.5	X	39.70776	173.04146	196.23998	8.10158	0.1120301	0.17755128	3.1351152	21	12 23.7	19.9
320092 2007 EV_{97}	16.8	X	195.16602	128.99167	116.98255	3.56021	0.2605807	0.18620586	3.0372030	21	12 27.8	22.0
320093 2007 ES_{98}	13.6	X	35.74584	186.78688	33.51353	3.64960	0.0643669	0.08327162	5.1936344	21	6 8.8	20.2
320094 2007 EC_{99}	15.8	X	251.73230	92.05742	137.13016	3.37535	0.1593979	0.19324648	2.9629773	21	—	—
320095 2007 EF_{99}	15.8	X	228.70222	157.58193	13.19566	6.61952	0.1385079	0.18137584	3.0908867	21	11 9.7	20.5
320096 2007 EA_{100}	16.1	X	92.99558	233.89374	173.37301	13.61026	0.1480799	0.20311015	2.8662559	21	1 21.3	20.0
320097 2007 ET_{100}	16.5	X	187.07499	82.26426	148.29468	6.50052	0.0695141	0.18594903	3.0399989	21	12 16.1	21.1
320098 2007 EZ_{101}	17.4	X	322.98004	330.36375	12.76198	20.19190	0.0827680	0.36744677	1.9305146	21	8 20.5	19.3
320099 2007 EE_{106}	16.4	X	229.09331	115.89742	32.81251	9.10298	0.0369510	0.17542234	3.1604296	21	10 27.4	20.9
320100 2007 ET_{114}	15.8	X	180.43952	105.13488	180.53355	11.61425	0.0680643	0.18709904	3.0275293	21	—	—
320101 2007 EB_{117}	15.5	X	91.27426	224.93507	65.19527	6.46118	0.0709405	0.17020151	3.2247332	21	11 14.0	20.1
320102 2007 EK_{117}	16.2	X	327.49622	338.84338	176.97102	9.45460	0.0654220	0.19241420	2.9715153	21	—	—
320103 2007 EU_{124}	15.2	X	209.35127	15.19341	194.67693	20.46285	0.1625580	0.17847725	3.1242622	21	12 5.5	20.4
320104 2007 EY_{128}	17.5	X	101.26273	47.71244	213.11207	0.10846	0.1260148	0.24024394	2.5627196	21	11 3.8	21.1
320105 2007 EY_{130}	15.8	X	99.27095	302.59461	357.58188	10.03243	0.0567220	0.17908163	3.1172289	21	12 1.9	20.6
320106 2007 EV_{131}	16.2	X	150.56536	128.97340	140.83391	0.51586	0.1433359	0.18036589	3.1024142	21	12 22.8	21.1
320107 2007 ET_{132}	16.4	X	60.49684	47.16073	5.49815	1.65620	0.0866149	0.19597744	2.9353868	21	—	—
320108 2007 EB_{134}	16.3	X	162.72929	241.53042	40.13989	1.25049	0.1753431	0.18386782	3.0628959	21	—	—
320109 2007 ED_{136}	16.1	X	325.18303	276.57486	176.20340	10.63793	0.0760505	0.18584610	3.0411213	21	12 20.9	20.2
320110 2007 EE_{152}	16.2	X	311.63663	313.93009	144.95902	7.36623	0.1318249	0.18628786	3.0363117	21	12 6.5	19.9
320111 2007 EL_{153}	15.8	X	5.57274	207.02056	146.35587	9.58991	0.0756806	0.17266010	3.1940477	21	10 16.8	20.0
320112 2007 ER_{154}	15.7	X	121.13407	93.58520	205.49559	9.70127	0.0658154	0.18059490	3.0997908	21	12 26.2	20.5
320113 2007 EP_{160}	16.3	X	240.00656	238.46341	327.72158	4.09852	0.1722485	0.18599200	3.0395307	21	—	—
320114 2007 EY_{166}	15.4	X	264.74369	320.37958	198.13700	16.21895	0.0434000	0.18094305	3.0958134	21	12 20.6	20.0
320115 2007 EO_{169}	16.3	X	249.38550	74.70668	162.75542	3.05049	0.1108000	0.19174698	2.9784047	21	—	—
320116 2007 EC_{170}	16.8	X	273.27546	285.54799	341.89066	3.82346	0.0269131	0.21023778	2.8011017	21	2 18.3	20.6
320117 2007 EW_{171}	16.5	X	20.76070	193.61017	263.27613	1.04416	0.0847766	0.19454229	2.9498055	21	—	—
320118 2007 EA_{172}	15.7	X	89.52253	353.31675	353.47602	9.17745	0.0904794	0.18476848	3.0529343	21	—	—
320119 2007 EQ_{173}	15.8	X	165.13269	57.67505	200.01377	8.97991	0.0922307	0.18079463	3.0975074	21	12 22.7	20.7
320120 2007 EZ_{173}	16.4	X	317.84906	134.82918	353.44051	10.83312	0.1316781	0.19010992	2.9954784	21	—	—
320121 2007 EF_{176}	16.2	X	208.12838	354.92379	214.18715	6.29852	0.1399412	0.18035631	3.1025240	21	12 5.5	21.0
320122 2007 ET_{180}	16.1	X	189.15424	19.80845	207.45636	14.30506	0.0803326	0.17759754	3.1345708	21	12 11.8	21.1
320123 2007 EZ_{180}	15.6	X	357.90766	205.11890	205.91899	14.35906	0.0462549	0.17836856	3.1255312	21	12 12.1	20.0
320124 2007 EZ_{182}	15.5	X	82.69274	143.13691	213.33701	8.73442	0.0490411	0.18098011	3.0953907	21	—	—
320125 2007 EQ_{185}	15.6	X	222.58353	86.64974	160.62091	12.35467	0.0997281	0.18841113	3.0134571	21	—	—
320126 2007 EO_{187}	16.0	X	4.88190	100.41915	20.57392	9.22412	0.0661857	0.19934438	2.9022404	21	—	—
320127 2007 EW_{190}	16.0	X	179.40187	236.07187	10.63202	9.29321	0.0494851	0.18196842	3.0841727	21	12 27.4	20.7
320128 2007 EY_{195}	16.0	X	206.06326	210.20966	47.22731	10.12489	0.0623322	0.18580687	3.0415494	21	—	—
320129 2007 ED_{196}	16.1	X	173.13319	261.22952	14.15979	10.95229	0.2344341	0.18116936	3.0932347	21	—	—
320130 2007 EF_{196}	16.7	X	330.09302	94.54404	13.16388	6.60211	0.2238953	0.18977014	2.9990529	21	—	—
320131 2007 EL_{196}	15.4	X	212.21461	186.14691	19.51562	10.65005	0.0614360	0.18011568	3.1052867	21	12 11.7	20.2
320132 2007 EU_{196}	15.8	X	158.35938	258.13147	24.47608	9.71487	0.0994187	0.18191110	3.0848206	21	—	—
320133 2007 EP_{201}	15.6	X	113.26648	23.96247	345.92666	12.02488	0.0624749	0.20247337	2.8722624	21	—	—
320134 2007 ET_{201}	16.4	X	131.15102	217.11851	161.89307	3.46702	0.0606980	0.20588092	2.8404817	21	1 23.1	20.4
320135 2007 ED_{205}	15.9	X	332.84189	304.58490	165.33164	10.15060	0.0481959	0.18734228	3.0249081	21	—	—
320136 2007 EE_{206}	16.0	X	287.14499	330.74036	207.86003	8.13517	0.0319898	0.19088000	2.9874164	21	—	—
320137 2007 EN_{213}	16.5	X	189.02726	274.07195	20.61535	6.72341	0.2101309	0.18856001	3.0118707	21	—	—
320138 2007 EN_{214}	15.8	X	112.87148	159.91593	180.04919	9.09454	0.1424667	0.18913145	3.0058009	21	—	—
320139 2007 ER_{214}	16.3	X	185.13703	124.05107	165.25955	2.84122	0.2462492	0.18227992	3.0806580	21	—	—
320140 2007 EX_{214}	16.4	X	358.89997	102.30837	40.83726	2.33582	0.0730994	0.19741248	2.9211441	21	—	—
320141 2007 EY_{214}	14.5	X	70.82867	291.72201	19.86164	22.17011	0.1881722	0.17370866	3.1811811	21	11 24.5	19.5
320142 2007 EL_{215}	15.2	X	65.79245	264.34703	128.35649	11.74428	0.0766049	0.19246135	2.9710300	21	—	—
320143 2007 EH_{218}	16.6	X	263.98351	144.79946	15.08305	4.21064	0.1109316	0.18497302	3.0506833	21	12 13.3	20.7
320144 2007 EY_{219}	15.4	X	286.31812	67.11802	27.27139	16.29023	0.2182041	0.17575561	3.1564331	21	10 9.3	19.4
320145 2007 EC_{223}	15.4	X	209.58029	76.53588	100.26186	14.00182	0.1284781	0.17708895	3.1405695	21	11 5.0	20.5
320146 2007 EJ_{224}	16.8	X	190.50777	273.74572	222.24297	0.94065	0.0188887	0.23021921	2.6365844	21	9 1.2	20.4
320147 2007 FK_{2}	15.7	X	287.88992	93.33712	103.22274	8.86341	0.1250099	0.19657383	2.9294466	21	—	—
320148 2007 FD_{5}	15.9	X	37.09791	223.07416	151.47424	10.57297	0.1338008	0.18402617	3.0611385	21	12 31.4	20.2
320149 2007 FO_{8}	15.8	X	149.51015	72.00140	203.18932	18.13838	0.1648478	0.17862867	3.1224963	21	12 26.1	21.3
320150 2007 FF_{12}	17.1	X	291.68687	212.90950	22.31475	5.62264	0.1305145	0.26997251	2.3709534	21	1 7.4	20.4
320151 2007 FC_{19}	16.1	X	140.42838	144.59065	168.81644	4.08794	0.1168991	0.19020626	2.9944668	21	—	—
320152 2007 FH_{19}	15.5	X	338.86902	20.44504	354.53423	11.14391	0.1185339	0.17256127	3.1952671	21	9 28.9	19.4
320153 Eglitis	15.4	X	150.38900	92.21123	130.03720	16.07799	0.0505889	0.17662346	3.1460851	21	11 2.5	20.4
320154 2007 FA_{22}	16.1	X	280.29802	110.13354	13.57802	9.90982	0.0183220	0.18001031	3.1064984	21	11 29.4	20.6
320155 2007 FP_{23}	16.0	X	2.15500	303.95417	178.98185	10.02038	0.0214065	0.19477921	2.9474129	21	—	—
320156 2007 FP_{28}	16.6	X	191.23945	349.38454	224.73483	1.17211	0.0227395	0.18229607	3.0804762	21	12 3.7	20.9
320157 2007 FC_{30}	16.2	X	178.35716	231.00980	8.97468	3.30463	0.0561014	0.17969899	3.1100852	21	12 17.1	20.8
320158 2007 FK_{30}	16.0	X	301.53940	132.13478	10.59983	10.42641	0.1133641	0.18845370	3.0130032	21	—	—
320159 2007 FJ_{33}	16.9	X	303.99795	78.26743	207.05711	0.96658	0.2051998	0.21309074	2.7760439	21	3 24.4	20.7
320160 2007 FG_{41}	15.2	X	124.04423	266.79992	48.96127	6.96285	0.0402390	0.18143062	3.0902645	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320161 2007 FU_{48}	17.4	X	340.33412	206.82520	51.72743	1.26963	0.0187058	0.21507422	2.7589499	21	5 5.3	21.1
320162 2007 GP	16.0	X	136.64197	112.90787	204.10605	5.88207	0.0148768	0.18603125	3.0391032	21	—	—
320163 2007 GS	16.4	X	168.46806	46.58742	189.42342	1.03561	0.1173084	0.17576389	3.1563340	21	11 30.0	21.4
320164 2007 GP_1	15.8	X	121.02281	238.88685	62.81773	6.15633	0.1445255	0.17737576	3.1371831	21	—	—
320165 2007 GO_2	16.3	X	111.75985	282.48240	340.86085	1.78683	0.0226634	0.17639833	3.1487612	21	10 30.7	20.9
320166 2007 GY_2	16.3	X	223.19764	218.24215	1.84509	5.77468	0.1192779	0.18673116	3.0315043	21	—	—
320167 2007 GZ_3	15.0	X	199.09359	179.81352	52.39653	10.94076	0.1178277	0.17825752	3.1268291	21	12 24.1	19.9
320168 2007 GD_5	16.1	X	93.99136	305.43428	44.35030	10.12751	0.0955827	0.18345303	3.0675109	21	—	—
320169 2007 GZ_7	15.8	X	174.66006	270.90660	17.51568	10.30247	0.0584186	0.18851229	3.0123789	21	—	—
320170 2007 GX_8	16.2	X	210.99449	349.61570	201.53553	8.14374	0.0359077	0.17660151	3.1463457	21	11 27.6	20.8
320171 2007 GY_{10}	15.4	X	2.47060	187.67225	165.78435	16.05066	0.0962616	0.17079099	3.2173088	21	10 12.9	19.6
320172 2007 GD_{16}	16.4	X	293.55203	168.21601	344.43133	3.11239	0.1956324	0.18720239	3.0264148	21	—	—
320173 2007 GO_{16}	16.9	X	196.79622	274.58583	7.89355	4.04932	0.0209936	0.25847539	2.4407497	21	—	—
320174 2007 GV_{22}	15.6	X	330.97825	214.76675	212.99893	10.52247	0.0245997	0.17385996	3.1793354	21	11 26.6	20.0
320175 2007 GA_{23}	16.2	X	266.83860	157.14726	44.09943	7.82571	0.0840550	0.18726232	3.0257691	21	—	—
320176 2007 GE_{24}	16.1	X	303.60644	100.80076	34.74421	9.47530	0.0544774	0.18172010	3.0869819	21	—	—
320177 2007 GY_{26}	15.5	X	310.10806	290.28885	191.19076	10.04358	0.0562599	0.17940864	3.1134398	21	—	—
320178 2007 GW_{27}	17.3	X	247.91718	76.96350	47.26146	23.41220	0.0471769	0.37992785	1.8879999	21	11 20.1	18.9
320179 2007 GJ_{28}	15.4	X	153.80499	88.78329	179.53594	10.84322	0.0706275	0.17734711	3.1375209	21	12 23.9	20.3
320180 2007 GZ_{28}	15.7	X	262.02365	97.43099	124.09874	11.08401	0.0759922	0.19297286	2.9657774	21	—	—
320181 2007 GM_{31}	15.9	X	151.54339	95.49177	173.26449	5.23662	0.0735758	0.18399581	3.0614753	21	12 23.3	20.6
320182 2007 GR_{31}	16.1	X	94.23980	80.73244	196.81275	4.18330	0.0459114	0.17134837	3.2103280	21	10 30.6	20.8
320183 2007 GP_{32}	15.3	X	167.04303	210.36477	16.51851	15.94199	0.0596263	0.17772006	3.1331300	21	11 15.1	20.2
320184 2007 GY_{36}	15.8	X	282.44820	54.17886	117.70489	3.04360	0.1422646	0.18734944	3.0248310	21	—	—
320185 2007 GZ_{39}	15.6	X	248.76491	332.55328	205.58382	10.13095	0.0864311	0.18021424	3.1041543	21	12 18.9	20.1
320186 2007 GO_{45}	15.6	X	264.26760	323.44708	199.77232	8.93631	0.0339267	0.17883394	3.1201065	21	12 26.5	20.1
320187 2007 GQ_{47}	17.1	X	129.47975	266.09382	217.40661	7.43656	0.0504210	0.28376134	2.2935096	21	5 29.3	19.9
320188 2007 GT_{48}	17.7	X	244.66285	193.85547	92.83430	3.07939	0.1986007	0.26398034	2.4066983	21	1 21.7	21.6
320189 2007 GC_{51}	15.9	X	187.86303	22.35012	219.70771	9.93431	0.1767600	0.17707334	3.1407541	21	12 20.9	21.2
320190 2007 GK_{51}	16.4	X	261.82928	27.45741	151.35496	3.86308	0.0536146	0.18727642	3.0256172	21	—	—
320191 2007 GX_{58}	16.1	X	252.76894	190.32749	4.08901	9.28687	0.0801645	0.18851223	3.0123796	21	—	—
320192 2007 GR_{60}	15.8	X	200.57986	8.92712	250.13088	4.73662	0.1537717	0.18335405	3.0686149	21	—	—
320193 2007 GT_{64}	17.2	X	24.67086	110.43700	223.83713	7.21076	0.1291452	0.23219657	2.6215945	21	11 2.1	20.0
320194 2007 GF_{65}	16.3	X	257.90378	123.21534	20.88317	4.06619	0.0929406	0.17617247	3.1514519	21	11 16.9	20.7
320195 2007 GG_{67}	16.4	X	205.67073	257.66588	326.86650	1.06743	0.0883999	0.17858392	3.1230180	21	12 25.1	21.0
320196 2007 GY_{68}	16.2	X	170.27316	56.45088	188.44702	10.07451	0.0512665	0.18093656	3.0958874	21	12 15.2	20.9
320197 2007 GC_{69}	15.7	X	46.91516	206.59915	180.04296	12.29808	0.0914456	0.18249834	3.0781995	21	—	—
320198 2007 GX_{76}	16.0	X	227.77821	257.50374	345.35931	9.84369	0.2053891	0.18660869	3.0328305	21	—	—
320199 2007 HH_1	15.9	X	190.09386	252.73868	16.25055	7.61727	0.1683077	0.18468465	3.0538581	21	—	—
320200 2007 HO_1	15.2	X	285.34139	121.29122	31.95524	11.10098	0.0757784	0.18462060	3.0545644	21	—	—
320201 2007 HM_7	15.8	X	88.32392	152.71526	188.23699	9.82835	0.0604383	0.17576385	3.1563345	21	—	—
320202 2007 HU_7	17.5	X	124.23215	1.95228	186.02641	7.85279	0.1264609	0.29802734	2.2197223	21	8 28.8	20.6
320203 2007 HB_8	16.2	X	116.50021	86.02422	200.11196	8.85253	0.0676638	0.17568875	3.1572339	21	12 6.8	21.0
320204 2007 HW_{11}	16.2	X	220.41415	129.78870	53.59479	6.28325	0.1004007	0.17620365	3.1510801	21	11 20.7	21.0
320205 2007 HX_{12}	15.2	X	228.43850	177.60931	47.46168	20.83997	0.2579135	0.18375335	3.0641677	21	12 30.5	20.3
320206 2007 HJ_{13}	15.6	X	208.66306	188.41117	46.06689	12.71974	0.2025885	0.18182952	3.0857432	21	12 29.3	20.7
320207 2007 HU_{18}	15.4	X	215.45328	61.81777	173.52039	17.15917	0.2129460	0.18091103	3.0961787	21	—	—
320208 2007 HK_{25}	17.0	X	270.46810	121.25194	37.09287	0.47120	0.1726605	0.18321483	3.0701692	21	12 11.2	21.1
320209 2007 HA_{27}	16.3	X	270.51406	352.82203	196.31529	4.66197	0.0821615	0.18508777	3.0494223	21	—	—
320210 2007 HL_{28}	15.4	X	306.57652	17.84576	159.67197	11.37862	0.0583634	0.19172568	2.9786251	21	—	—
320211 2007 HY_{31}	15.8	X	251.97948	126.53237	24.79128	10.58166	0.1698268	0.17889638	3.1193805	21	11 7.4	20.3
320212 2007 HH_{32}	16.8	X	217.05801	341.17505	13.41871	1.81095	0.0397900	0.20682330	2.8318467	21	3 31.4	20.8
320213 2007 HP_{35}	16.7	X	343.28044	235.96100	44.06512	4.20495	0.0605701	0.21508693	2.7588412	21	6 4.1	20.2
320214 2007 HH_{38}	16.2	X	136.30394	113.22747	160.26709	5.71113	0.1561495	0.17561046	3.1581722	21	12 14.8	21.4
320215 2007 HK_{38}	17.0	X	134.67511	148.33044	222.70747	4.72256	0.1200823	0.26412745	2.4058046	21	1 13.2	20.2
320216 2007 HK_{44}	16.3	X	210.39701	354.41190	254.95178	3.74728	0.2010219	0.18191537	3.0847723	21	—	—
320217 2007 HF_{45}	15.4	X	220.80241	113.28201	78.46471	17.47847	0.1857917	0.17971213	3.1099336	21	11 24.8	20.3
320218 2007 HG_{45}	16.3	X	228.59384	95.84324	125.19343	3.60241	0.1249477	0.18229360	3.0805039	21	—	—
320219 2007 HW_{56}	17.3	X	25.19966	344.00059	182.60748	4.77320	0.1687121	0.27416431	2.3467245	21	2 16.2	19.0
320220 2007 HE_{60}	16.4	X	127.76021	181.36886	80.43545	2.27894	0.0527051	0.17131287	3.2107714	21	11 18.4	21.2
320221 2007 HL_{71}	16.2	X	148.96253	102.03527	153.27972	7.29322	0.1911854	0.17365839	3.1817950	21	12 5.5	21.6
320222 2007 HY_{71}	15.5	X	212.92825	142.35631	48.58743	12.25534	0.1059878	0.17560811	3.1582003	21	11 20.4	20.4
320223 2007 HG_{72}	15.6	X	78.00062	162.23176	213.67427	9.26235	0.0874704	0.18306100	3.0718888	21	—	—
320224 2007 HS_{74}	16.2	X	170.36863	118.43333	103.36053	2.98531	0.0824520	0.17079428	3.2172675	21	11 16.2	21.1
320225 2007 HJ_{80}	15.7	X	105.83791	136.29154	173.94312	10.47279	0.1134573	0.17821382	3.1273402	21	12 26.9	20.7
320226 2007 HP_{96}	16.2	X	222.09498	81.36954	150.86741	0.40441	0.1300879	0.18372462	3.0644872	21	—	—
320227 2007 HE_{98}	15.6	X	243.31783	26.16972	172.57957	11.28694	0.1502141	0.18134122	3.0912801	21	12 28.4	20.2
320228 2007 JC_3	15.9	X	156.06255	201.08097	46.17176	9.86900	0.1622674	0.17363970	3.1820233	21	11 29.9	21.2
320229 2007 JB_8	17.3	X	255.94290	3.39832	53.11473	7.66226	0.0936563	0.29453211	2.2372488	21	8 6.0	20.1
320230 2007 JW_8	17.5	X	165.09733	172.41754	164.06094	0.87828	0.1845586	0.25695374	2.4503761	21	1 13.4	21.2
320231 2007 JL_{14}	16.7	X	203.84901	263.40941	26.39672	2.16313	0.0649931	0.18977214	2.9990319	21	—	—
320232 2007 JP_{15}	16.5	X	272.72215	71.75925	108.27463	2.94798	0.0884752	0.18378280	3.0638404	21	—	—
320233 2007 JK_{17}	16.9	X	350.34667	64.50945	207.88100	3.50646	0.1197087	0.21282479	2.7783561	21	6 2.0	20.0
320234 2007 JS_{19}	15.5	X	135.41983	268.00649	29.84202	4.80223	0.1185412	0.17794134	3.1305320	21	—	—
320235 2007 JF_{21}	15.5	X	241.84929	84.52928	72.62250	12.23838	0.0438685	0.17620045	3.1511183	21	11 22.0	19.9
320236 2007 JP_{21}	15.5	X	157.77005	86.18143	200.94862	5.35359	0.1879431	0.17623234	3.1507381	21	—	—
320237 2007 JA_{27}	16.1	X	282.65095	184.93470	203.32006	9.28796	0.2067377	0.21998536	2.7177335	21	7 9.0	19.9
320238 2007 JD_{28}	16.3	X	218.94387	81.67384	190.87712	3.96764	0.2253501	0.18607576	3.0386185	21	—	—
320239 2007 JE_{32}	15.3	X	145.36814	223.72924	72.40785	11.26139	0.0683120	0.17783184	3.1318169	21	—	—
320240 2007 JG_{33}	15.9	X	228.37459	277.22686	114.78137	8.82079	0.1742582	0.21242620	2.7818305	21	5 23.6	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320241 2007 JH_{35}	15.0	X	177.37536	337.36169	222.37382	26.85161	0.1423654	0.17150539	3.2083682	21	10 25.3	20.2
320242 2007 JG_{42}	15.8	X	202.97958	71.27690	172.70387	26.68364	0.2021816	0.18091120	3.0961768	21	—	—
320243 2007 JQ_{43}	15.2	X	208.34519	76.27795	163.93350	18.82630	0.1295975	0.17974172	3.1095924	21	—	—
320244 2007 KP_1	16.4	X	218.65025	75.35899	177.49933	11.38622	0.1519994	0.18312224	3.0712040	21	—	—
320245 2007 KH_3	17.0	X	337.99137	301.00062	254.99578	5.63032	0.0633981	0.26733229	2.3865384	21	1 22.4	19.9
320246 2007 KO_7	17.1	X	304.47292	285.77150	306.04645	4.20653	0.1759587	0.26854785	2.3793313	21	1 11.5	20.4
320247 2007 LZ_4	16.6	X	135.44487	80.98791	237.23085	13.04990	0.1000849	0.24814772	2.5080096	21	—	—
320248 2007 LD_{10}	15.5	X	172.60706	73.77485	183.59419	13.31832	0.1189647	0.17497181	3.1658523	21	12 27.3	20.7
320249 2007 LB_{16}	15.3	X	234.41040	310.06734	204.92590	16.82234	0.1137742	0.17077659	3.2174896	21	10 31.9	20.1
320250 2007 MV	16.1	X	120.20102	181.49544	198.85017	9.24870	0.0837690	0.18820105	3.0156992	21	1 16.8	20.5
320251 2007 MG_{16}	16.0	X	354.04361	217.21594	118.41414	11.44990	0.2485458	0.21544570	2.7557776	21	9 20.6	18.4
320252 2007 ML_{16}	16.0	X	207.61271	38.91952	174.71481	17.42854	0.1595779	0.17698704	3.1417749	21	12 9.1	21.3
320253 2007 OF	15.4	X	9.47363	22.03553	264.20479	12.63035	0.1528599	0.21114566	2.7930665	21	7 25.6	18.5
320254 2007 PE_4	15.6	X	74.75617	270.31830	45.91134	13.88783	0.1365243	0.22878008	2.6476297	21	12 11.9	19.7
320255 2007 PZ_4	16.2	X	85.64227	167.08187	147.10347	9.25475	0.1775832	0.22940546	2.6428157	21	12 26.3	20.4
320256 2007 PS_{24}	17.1	X	74.78004	182.61582	176.07983	7.19659	0.1992515	0.30183850	2.2009979	21	—	—
320257 2007 PU_{26}	16.2	X	187.58942	255.71061	94.11180	2.17891	0.1722244	0.18170935	3.0871036	21	2 28.2	21.2
320258 2007 PO_{27}	17.9	X	149.26034	58.55267	308.95500	4.45383	0.0485261	0.31704639	2.1300388	21	1 5.9	20.3
320259 2007 PJ_{46}	16.3	X	359.85342	175.87727	150.20354	5.78200	0.1647095	0.21196976	2.7858225	21	9 8.8	19.1
320260 Bertout	16.5	X	332.74553	253.51221	139.49097	3.39125	0.0594419	0.22371444	2.6874478	21	10 25.2	19.7
320261 2007 QO_9	15.6	X	110.54619	214.48280	173.21960	12.92217	0.0877546	0.17158327	3.2073973	21	1 18.3	20.3
320262 2007 RA	16.3	X	18.43064	228.65083	136.27025	8.48554	0.1218290	0.22210540	2.7004116	21	12 2.5	19.7
320263 2007 RQ_4	15.6	X	221.90100	81.04787	200.10182	5.10570	0.1712535	0.17720137	3.1392411	21	1 8.3	20.8
320264 2007 RD_7	16.7	X	29.86040	13.22055	4.94243	6.69649	0.1840810	0.29418675	2.2389994	21	—	—
320265 2007 RH_7	17.4	X	248.98635	105.93665	289.09255	0.56370	0.1864916	0.26845370	2.3798877	21	6 11.9	20.9
320266 2007 RK_9	16.8	X	130.85410	209.82614	90.68911	3.34069	0.1540745	0.23545149	2.5973776	21	—	—
320267 2007 RL_{17}	15.3	X	171.21179	89.54032	178.96095	26.87568	0.0779115	0.17637191	3.1490757	21	—	—
320268 2007 RG_{19}	16.4	X	139.50130	347.10499	359.58690	8.44763	0.0290141	0.24196131	2.5505789	21	—	—
320269 2007 RY_{27}	17.3	X	12.72367	327.78470	49.20489	5.61770	0.2029521	0.29214866	2.2494005	21	—	—
320270 2007 RU_{43}	17.5	X	49.60568	174.57947	216.13374	4.59525	0.1148743	0.30050098	2.2075241	21	—	—
320271 2007 RX_{63}	16.1	X	108.93523	270.66038	156.73052	1.69221	0.1782667	0.17713741	3.1399967	21	3 17.9	20.5
320272 2007 RO_{66}	16.3	X	163.45829	228.55667	166.85488	4.73662	0.1488398	0.18348099	3.0671993	21	3 31.0	21.1
320273 2007 RR_{68}	18.0	X	141.62035	264.30833	15.63731	3.66849	0.0966727	0.30152276	2.2025341	21	—	—
320274 2007 RD_{72}	16.0	X	223.16521	284.80680	102.04294	3.77987	0.0370651	0.19360436	2.9593247	21	5 20.7	20.2
320275 2007 RF_{82}	16.3	X	97.31487	266.06683	154.05480	2.62232	0.0794902	0.17470581	3.1690651	21	2 9.6	20.6
320276 2007 RL_{95}	18.2	X	266.05398	281.70383	174.39240	2.41412	0.2983675	0.27440072	2.3453764	21	9 8.4	21.1
320277 2007 RH_{100}	17.2	X	346.68385	283.46414	139.06663	1.53668	0.1117689	0.22666486	2.6640759	21	12 27.3	20.2
320278 2007 RV_{105}	17.5	X	319.64429	250.39418	160.58968	2.36740	0.1950707	0.28398140	2.2923246	21	11 6.6	18.8
320279 2007 RS_{127}	15.9	X	122.07006	145.62452	23.14592	6.73912	0.2144623	0.19545253	2.9406400	21	8 8.5	20.7
320280 2007 RJ_{145}	17.5	X	83.70872	114.56871	244.07601	3.98982	0.2135151	0.30131140	2.2035640	21	—	—
320281 2007 RR_{147}	16.1	X	288.06812	333.19937	85.91955	4.81429	0.0832350	0.21014148	2.8019574	21	9 20.2	19.7
320282 2007 RQ_{151}	16.0	X	199.32146	217.58691	216.94071	6.78789	0.0481554	0.20134955	2.8829400	21	6 20.8	20.3
320283 2007 RN_{178}	16.0	X	94.94427	50.09060	62.45437	5.70856	0.1030496	0.18021239	3.1041757	21	4 16.5	20.3
320284 2007 RW_{182}	17.3	X	275.39535	156.40118	282.84907	5.10918	0.2513694	0.27776303	2.3264109	21	9 3.1	19.9
320285 2007 RQ_{185}	16.2	X	337.42749	293.97223	83.65797	7.62562	0.0812487	0.21207153	2.7849312	21	10 12.4	19.7
320286 2007 RR_{188}	14.2	X	29.96318	18.93612	5.53696	5.72066	0.0542910	0.08259456	5.2219785	21	12 2.7	20.9
320287 2007 RJ_{190}	17.0	X	309.70159	299.34612	121.27569	1.63861	0.0577330	0.21471943	2.7619882	21	10 25.5	20.3
320288 2007 RQ_{192}	16.2	X	359.70933	226.76179	170.29288	12.57415	0.1359806	0.22050547	2.7134582	21	12 16.2	19.6
320289 2007 RM_{201}	16.4	X	243.50170	235.78098	337.50005	3.36722	0.1096065	0.23280797	2.6170026	21	—	—
320290 2007 RK_{204}	15.7	X	11.60840	298.11553	213.96168	10.94242	0.1228462	0.17160517	3.2071244	21	1 29.6	19.8
320291 2007 RW_{216}	17.2	X	333.62152	344.49558	44.94499	2.42511	0.1510572	0.28459029	2.2890538	21	11 3.1	18.7
320292 2007 RO_{221}	16.6	X	58.56092	92.99499	214.28113	2.81449	0.0779455	0.21391406	2.7689163	21	11 3.3	20.2
320293 2007 RX_{222}	17.0	X	82.26245	33.60352	287.79451	5.25233	0.2025296	0.29757575	2.2219675	21	—	—
320294 2007 RP_{225}	17.2	X	93.57672	55.64758	320.89405	3.53992	0.0424220	0.23715086	2.5849546	21	—	—
320295 2007 RD_{242}	17.3	X	64.51368	103.65831	196.34231	4.75303	0.1647054	0.29033802	2.2587428	21	11 26.2	20.3
320296 2007 RQ_{246}	15.5	X	233.64198	111.79830	262.52536	9.47123	0.0823055	0.19118125	2.9842774	21	5 11.3	20.0
320297 2007 RU_{248}	17.8	X	70.72035	354.93965	19.02637	4.49557	0.1516550	0.30205222	2.1999595	21	—	—
320298 2007 RP_{259}	18.1	X	170.40309	189.47498	135.46623	3.04536	0.1399334	0.31364503	2.1454107	21	—	—
320299 2007 RR_{272}	17.8	X	299.92627	137.49017	344.49563	5.31205	0.0316208	0.29604581	2.2296162	21	—	—
320300 2007 RR_{283}	17.1	X	348.34287	109.24692	247.65592	0.65010	0.0374471	0.20955621	2.8071721	21	9 26.0	20.6
320301 2007 RC_{290}	17.2	X	305.05811	223.42836	190.95554	6.32569	0.1344541	0.27875371	2.3208956	21	10 12.8	19.4
320302 2007 RC_{308}	13.2	X	5.81587	69.55708	329.74303	26.31253	0.1030219	0.08396582	5.1649686	21	11 15.3	20.0
320303 2007 RQ_{309}	15.9	X	152.34703	355.25320	22.18165	0.89161	0.1662294	0.17653040	3.1471907	21	3 1.2	20.8
320304 2007 RB_{316}	15.6	X	192.96514	260.13437	164.92287	11.52187	0.1034367	0.19249649	2.9706683	21	6 2.7	20.4
320305 2007 RB_{320}	16.7	X	3.71891	63.29782	345.56192	5.36602	0.0426812	0.22411239	2.6842655	21	12 27.5	20.2
320306 2007 SX_2	17.1	X	54.53552	0.75660	20.21794	6.28279	0.1517627	0.29715749	2.2240519	21	—	—
320307 2007 SA_4	17.2	X	91.79595	222.52353	145.31189	0.91597	0.2555773	0.23255959	2.6188656	21	—	—
320308 2007 SK_{14}	17.5	X	302.16411	100.92888	322.00916	1.75143	0.1996538	0.27883288	2.3204563	21	10 10.4	19.4
320309 2007 SK_{21}	15.3	X	10.95435	308.91411	236.39671	9.08386	0.0230649	0.18024860	3.1037599	21	3 12.7	19.7
320310 2007 SG_{23}	17.4	X	326.12700	68.81251	358.05665	8.22464	0.0847181	0.28637927	2.2795109	21	12 12.8	19.8
320311 2007 TT	17.0	X	41.31746	209.20547	185.31413	3.77325	0.0818793	0.22682161	2.6628483	21	—	—
320312 2007 TS_1	17.6	X	357.13683	69.16665	350.76064	7.93755	0.1095964	0.29658670	2.2269046	21	—	—
320313 2007 TG_2	16.4	X	311.53463	277.81497	61.16724	2.20397	0.1228996	0.19756034	2.9196864	21	6 29.5	20.0
320314 2007 TQ_7	16.8	X	20.95913	212.54268	110.39136	2.66534	0.2433154	0.28102936	2.3083496	21	11 10.0	19.0
320315 2007 TD_{13}	17.1	X	266.53975	209.46323	176.81931	1.15555	0.1903029	0.26916687	2.3756821	21	6 19.5	20.3
320316 2007 TK_{20}	17.2	X	237.39764	77.38487	352.36001	2.09697	0.1643450	0.27012969	2.3700336	21	7 19.2	20.5
320317 2007 TP_{21}	17.1	X	298.43207	72.00201	16.11565	11.34449	0.1184550	0.28649313	2.2789069	21	11 20.4	19.4
320318 2007 TW_{21}	17.1	X	293.86631	229.62685	186.65134	9.42043	0.1753024	0.27577144	2.3375982	21	9 15.5	19.2
320319 2007 TU_{22}	17.8	X	355.22715	352.76132	76.37328	4.13807	0.1288876	0.29331469	2.2434351	21	—	—
320320 2007 TQ_{25}	17.8	X	287.15728	278.63678	206.96708	5.24387	0.1277153	0.29019779	2.2594703	21	12 29.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320321 2007 TL_{30}	17.6	X	250.14123	271.59349	202.68974	5.59007	0.2577808	0.27618996	2.3352361	21	9 18.9	20.8
320322 2007 TM_{31}	17.2	X	128.59396	344.61554	7.27164	2.69285	0.1377420	0.23959960	2.5673120	21	—	—
320323 2007 TC_{38}	17.3	X	73.97264	317.57119	32.07732	1.43314	0.1463922	0.22670550	2.6637575	21	—	—
320324 2007 TR_{45}	17.2	X	73.31192	278.71062	58.24098	6.00731	0.1794623	0.29375003	2.2412180	21	—	—
320325 2007 TC_{47}	15.9	X	264.72934	243.55646	220.81706	8.59512	0.1106110	0.20967314	2.8061283	21	10 8.7	19.7
320326 2007 TA_{48}	17.9	X	100.92166	7.96325	316.17503	1.81758	0.1910960	0.29875696	2.2161069	21	—	—
320327 2007 TO_{63}	16.5	X	290.86824	332.27999	63.15958	2.99632	0.0680065	0.20059259	2.8901882	21	8 23.6	20.4
320328 2007 TY_{64}	17.3	X	261.99678	181.20130	176.04543	2.37959	0.2086155	0.26270146	2.4145029	21	5 4.9	21.0
320329 2007 TB_{76}	17.9	X	350.79975	67.32328	329.49325	1.19966	0.2210396	0.28620482	2.2804371	21	12 31.8	19.8
320330 2007 TQ_{92}	17.3	X	67.76955	307.39715	46.88956	5.28129	0.2012584	0.29727701	2.2234558	21	—	—
320331 2007 TL_{109}	17.6	X	117.76382	5.20523	335.93671	6.39438	0.1613717	0.30548498	2.1834478	21	—	—
320332 2007 TH_{116}	17.1	X	106.09078	264.38182	67.92769	6.38962	0.1944398	0.29934156	2.2132206	21	—	—
320333 2007 TZ_{122}	17.0	X	301.42777	317.06634	67.00825	3.01808	0.0820361	0.20199896	2.8767578	21	8 21.8	20.7
320334 2007 TS_{123}	16.1	X	33.28267	277.58330	56.20591	6.50375	0.1191072	0.21258029	2.7804861	21	11 9.8	19.6
320335 2007 TB_{125}	17.6	X	287.48826	8.25383	76.48448	3.17944	0.2294268	0.27985176	2.3148207	21	10 11.9	19.7
320336 2007 TD_{129}	16.9	X	321.64361	334.09770	22.64841	2.48985	0.0896229	0.19999212	2.8959704	21	8 14.4	20.3
320337 2007 TZ_{133}	16.2	X	187.92551	274.66016	52.41782	3.83593	0.0554484	0.16762056	3.2577508	21	2 1.0	21.1
320338 2007 TO_{139}	18.1	X	334.00159	116.47209	328.41009	2.08281	0.1292260	0.29099665	2.2553332	21	—	—
320339 2007 TC_{146}	17.7	X	313.62338	190.91500	244.94989	1.75244	0.1927196	0.28524816	2.2855329	21	12 3.3	18.8
320340 2007 TJ_{146}	17.7	X	53.92944	21.48989	32.43971	2.84136	0.1533674	0.30163471	2.2019892	21	—	—
320341 2007 TC_{152}	16.0	X	242.20188	203.57823	203.06038	11.08015	0.0762603	0.19786392	2.9166992	21	7 1.8	20.5
320342 2007 TH_{154}	17.7	X	357.56358	193.54736	246.76956	1.60226	0.1051977	0.29664343	2.2266206	21	—	—
320343 2007 TY_{160}	17.3	X	272.33766	69.70412	349.99404	4.70614	0.1908842	0.27310308	2.3527999	21	8 15.0	20.0
320344 2007 TD_{170}	17.0	X	284.39460	91.64588	23.71338	7.46704	0.1564709	0.28428847	2.2906736	21	12 2.1	19.0
320345 2007 TL_{171}	17.2	X	276.90802	190.23876	243.80402	3.07725	0.2102216	0.27673232	2.3321839	21	9 5.9	19.7
320346 2007 TF_{180}	16.9	X	17.14410	341.89250	80.31721	1.32281	0.1024829	0.22936262	2.6431448	21	—	—
320347 2007 TB_{183}	17.6	X	356.99096	231.91313	147.67258	5.64757	0.1345770	0.28463480	2.2888152	21	12 4.4	19.8
320348 2007 TY_{183}	16.8	X	73.46688	269.99733	100.49931	6.60136	0.1358393	0.29786082	2.2205495	21	—	—
320349 2007 TK_{186}	15.8	X	206.98070	193.80601	180.44994	9.82742	0.1326836	0.18379651	3.0636880	21	4 14.8	20.8
320350 2007 TZ_{187}	17.5	X	95.73837	39.82829	291.59852	2.27828	0.1973834	0.29913694	2.2142298	21	—	—
320351 2007 TQ_{192}	17.8	X	128.73482	137.06944	220.60218	5.12288	0.0678348	0.30863376	2.1685716	21	—	—
320352 2007 TJ_{202}	17.1	X	0.63477	225.36886	178.36929	3.92334	0.1013271	0.21652112	2.7466450	21	12 20.7	20.5
320353 2007 TT_{202}	17.9	X	333.37759	272.13484	171.08668	2.86147	0.1310941	0.28929481	2.2641696	21	—	—
320354 2007 TP_{210}	17.3	X	7.65580	4.74162	31.13498	6.36559	0.1506085	0.28858210	2.2678960	21	—	—
320355 2007 TT_{211}	16.6	X	77.90828	125.18308	245.42060	5.59881	0.1256185	0.22781233	2.6551225	21	—	—
320356 2007 TJ_{214}	16.5	X	278.64302	93.34186	3.39438	4.14395	0.0700889	0.20970360	2.8058565	21	10 24.3	20.0
320357 2007 TQ_{227}	17.8	X	267.43483	83.53124	12.67946	2.20445	0.1377582	0.27838429	2.3229484	21	10 8.1	20.3
320358 2007 TC_{228}	17.4	X	20.87910	302.88627	219.48393	4.72255	0.0749964	0.24386060	2.5373183	21	2 13.8	20.5
320359 2007 TB_{231}	16.8	X	54.74436	279.44520	114.16111	3.32992	0.0844873	0.22503034	2.6769607	21	—	—
320360 2007 TQ_{233}	16.6	X	38.28927	123.43007	203.95853	4.76937	0.0920643	0.20956718	2.8070741	21	11 4.1	20.1
320361 2007 TR_{237}	17.6	X	268.57670	188.53003	234.35947	5.85454	0.0779818	0.27207789	2.3587064	21	8 28.7	20.5
320362 2007 TH_{241}	17.8	X	271.84335	263.93356	198.17968	5.14544	0.1099954	0.28106279	2.3081666	21	10 29.5	20.2
320363 2007 TP_{247}	17.7	X	321.29473	194.87749	326.75195	4.21735	0.0338504	0.30561582	2.1828245	21	—	—
320364 2007 TJ_{289}	17.6	X	345.68655	253.26145	228.30220	3.46387	0.0930789	0.30247725	2.1978982	21	—	—
320365 2007 TL_{309}	18.1	X	187.96559	205.41082	85.77816	2.35557	0.1378600	0.30895404	2.1670726	21	—	—
320366 2007 TE_{354}	17.0	X	299.21279	220.93108	113.03821	8.47377	0.2144239	0.26862920	2.3788510	21	5 18.8	19.9
320367 2007 TS_{362}	16.0	X	329.08670	90.64382	226.48542	8.88832	0.1179849	0.19268193	2.9687621	21	6 27.7	19.7
320368 2007 TL_{376}	17.3	X	312.13413	287.26393	105.65424	5.49848	0.1523244	0.27966519	2.3158501	21	9 24.2	19.3
320369 2007 TO_{398}	17.7	X	340.24038	86.36763	5.65900	5.86714	0.1104313	0.29268423	2.2466556	21	—	—
320370 2007 TP_{410}	15.7	X	356.18531	192.61433	219.88783	10.48246	0.2487569	0.22032825	2.7149131	21	—	—
320371 2007 TF_{414}	15.4	X	273.09638	123.20325	232.46579	9.47989	0.1088850	0.18949995	3.0019029	21	5 31.8	19.7
320372 2007 TA_{419}	15.5	X	202.65451	243.41498	135.62594	11.04294	0.0955155	0.18144218	3.0901332	21	4 20.2	20.4
320373 2007 TV_{419}	15.2	X	145.17127	261.02022	105.75844	15.97985	0.1169944	0.17192156	3.2031884	21	2 8.1	20.1
320374 2007 TK_{447}	17.2	X	258.18590	8.02977	97.45971	6.84947	0.1376648	0.27837130	2.3230207	21	10 11.7	20.0
320375 2007 TJ_{449}	16.2	X	90.43626	247.02564	32.45657	5.34410	0.1293478	0.21054116	2.7984102	21	11 11.2	20.5
320376 2007 TV_{452}	15.5	X	23.12328	186.64474	105.90544	18.04577	0.0152664	0.18392071	3.0623086	21	8 21.3	19.9
320377 2007 UP	17.8	X	304.23308	109.81870	45.18232	6.52928	0.0746255	0.29908487	2.2144868	21	—	—
320378 2007 UR_{3}	21.3	X	319.15401	316.31521	156.07392	1.31227	0.2837626	0.50591685	1.5598516	21	—	—
320379 2007 UE_{4}	15.5	X	149.53875	242.81124	189.02090	11.16608	0.1046103	0.18038134	3.1022370	21	4 28.2	20.2
320380 2007 UR_{4}	16.0	X	276.44336	77.09368	14.23411	6.33165	0.0695714	0.21117854	2.7927766	21	10 15.0	19.5
320381 2007 UR_{10}	17.9	X	318.85947	125.45113	264.09422	1.64369	0.2286654	0.27820724	2.3239338	21	9 20.4	19.4
320382 2007 UT_{11}	16.9	X	13.42145	359.27026	62.70224	7.39355	0.1357026	0.29416822	2.2390934	21	—	—
320383 2007 UL_{18}	16.2	X	7.69363	303.66154	72.75507	8.80024	0.2336715	0.21667597	2.7453363	21	12 13.5	18.9
320384 2007 UR_{23}	16.4	X	260.11439	301.86424	144.45447	2.68097	0.0345428	0.20396410	2.8582501	21	9 22.4	20.4
320385 2007 UT_{36}	17.3	X	321.68493	34.76560	14.40180	7.51586	0.1705618	0.28171863	2.3045829	21	11 5.1	19.0
320386 2007 UV_{36}	16.9	X	158.52565	0.83963	88.20051	5.76275	0.1465895	0.25760056	2.4462726	21	5 26.9	20.5
320387 2007 UZ_{40}	18.3	X	310.39185	236.86556	356.91208	1.72111	0.0722648	0.31817289	2.1250081	21	1 25.5	20.8
320388 2007 UT_{43}	16.9	X	32.99217	165.55200	172.73502	4.25751	0.1094956	0.21335728	2.7737314	21	11 14.6	20.4
320389 2007 UK_{47}	16.2	X	320.53756	305.86108	87.78912	13.88668	0.0757328	0.20413474	2.8566571	21	10 10.4	20.0
320390 2007 UR_{48}	16.2	X	245.48772	273.61715	93.75733	4.02935	0.1205563	0.18506269	3.0496978	21	5 14.5	20.9
320391 2007 UU_{52}	17.9	X	299.01680	304.30717	165.27835	1.85124	0.1128344	0.28546083	2.2843976	21	12 27.7	19.9
320392 2007 UE_{60}	17.6	X	113.85888	312.17287	39.88298	5.27343	0.1108141	0.30201952	2.2001183	21	—	—
320393 2007 UH_{65}	16.2	X	280.57380	34.85725	262.81496	3.54274	0.0906380	0.18001073	3.1064935	21	3 30.0	20.7
320394 2007 UT_{69}	16.7	X	281.42009	10.62601	72.01301	1.66175	0.0428211	0.20863944	2.8153893	21	10 15.1	20.3
320395 2007 UQ_{73}	17.5	X	36.77926	11.71145	253.89365	0.55728	0.1621257	0.27212039	2.3584608	21	8 25.9	19.7
320396 2007 UM_{95}	18.1	X	266.74643	213.84110	253.94348	1.41179	0.1628697	0.27840279	2.3228455	21	10 19.0	20.6
320397 2007 UC_{101}	17.4	X	112.44810	245.99783	59.22977	3.42170	0.1735979	0.29213884	2.2494509	21	—	—
320398 2007 UD_{101}	15.6	X	176.22485	159.24470	238.98108	9.68200	0.0616076	0.17544354	3.1601749	21	4 9.3	20.4
320399 2007 UY_{105}	15.6	X	86.83033	54.17177	121.30673	4.71096	0.1460879	0.17988908	3.1078939	21	6 29.9	20.0
320400 2007 UY_{108}	16.7	X	28.58778	57.97500	207.12005	1.19997	0.0558335	0.19442116	2.9510305	21	7 23.6	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320401 2007 UK_{109}	16.2	X	169.37641	59.27783	63.82618	1.62899	0.0781097	0.19107128	2.9854223	21	7 19.3	20.7
320402 2007 UC_{112}	16.2	X	200.00746	75.42243	37.50267	6.44746	0.0419246	0.19786456	2.9166929	21	8 13.7	20.5
320403 2007 UD_{115}	18.0	X	102.07575	0.69430	29.63022	3.89923	0.0233508	0.30509911	2.1852884	21	—	—
320404 2007 UF_{119}	17.7	X	318.78305	332.58054	81.01442	1.08194	0.2001621	0.28245112	2.3005968	21	11 7.5	19.0
320405 2007 UN_{122}	16.7	X	354.26563	153.93242	190.54666	1.65028	0.0814885	0.20355740	2.8620560	21	9 18.7	20.2
320406 2007 UC_{134}	15.5	X	190.90823	235.60466	162.15476	16.14537	0.1055259	0.17972259	3.1098130	21	4 30.9	20.6
320407 2007 US_{138}	17.9	X	31.27956	317.18785	109.74014	3.70380	0.1134604	0.29711414	2.2242683	21	—	—
320408 2007 UN_{139}	17.2	X	150.40118	35.79877	280.14962	6.39249	0.1415414	0.30348840	2.1930136	21	—	—
320409 2007 UH_{140}	17.8	X	294.41485	110.82923	291.64501	1.37360	0.1641587	0.27290446	2.3539413	21	8 28.2	20.1
320410 2007 VE	16.5	X	359.28759	218.85950	165.86691	6.56995	0.0543436	0.21315558	2.7754810	21	11 20.4	20.1
320411 2007 VL_{1}	17.0	X	330.68883	162.70108	274.37246	6.64271	0.0592521	0.29134374	2.2535416	21	—	—
320412 2007 VZ_{1}	17.4	X	238.26590	126.21579	265.70197	5.13427	0.1268788	0.26366618	2.4086097	21	6 1.9	20.9
320413 2007 VF_{2}	17.3	X	210.96432	142.01994	291.48099	5.02560	0.1857997	0.26242311	2.4162099	21	6 25.3	21.0
320414 2007 VP_{2}	16.0	X	206.40125	54.96863	37.86435	10.46965	0.0786544	0.19227947	2.9729032	21	7 23.8	20.7
320415 2007 VV_{10}	17.0	X	320.46037	269.04003	124.54064	7.68039	0.2525452	0.27823850	2.3237598	21	10 6.6	18.3
320416 2007 VU_{12}	17.0	X	18.54146	70.82531	268.16120	5.27432	0.2258928	0.28264132	2.2995646	21	11 25.1	19.2
320417 2007 VE_{32}	15.5	X	104.47526	234.12633	270.18982	6.17888	0.2047900	0.18039379	3.1020943	21	6 18.5	20.1
320418 2007 VO_{44}	17.8	X	264.27190	152.29252	323.85355	4.35674	0.1655746	0.27983497	2.3149132	21	10 25.4	20.3
320419 2007 VR_{48}	16.1	X	94.96023	159.71702	342.20749	4.53231	0.0797797	0.17944412	3.1130294	21	5 17.1	20.4
320420 2007 VL_{56}	15.5	X	231.69924	260.40918	80.66310	10.25424	0.0860439	0.17822349	3.1272271	21	4 5.6	20.4
320421 2007 VH_{58}	16.9	X	28.94171	229.15956	19.27232	4.75471	0.0990993	0.26099438	2.4250197	21	7 6.7	19.4
320422 2007 VN_{58}	17.5	X	221.94893	247.19788	277.16685	4.41971	0.1597938	0.27912390	2.3188431	21	11 5.5	20.6
320423 2007 VA_{59}	18.0	X	227.28034	211.25944	285.49070	2.79286	0.1737194	0.27429549	2.3459762	21	10 3.5	21.2
320424 2007 VC_{64}	16.9	X	294.66166	68.51378	48.55552	6.22571	0.1023757	0.28455208	2.2892587	21	12 31.5	19.2
320425 2007 VO_{66}	17.5	X	30.85483	89.83922	255.74502	7.28036	0.1543928	0.28409345	2.2917218	21	12 11.7	20.2
320426 2007 VJ_{86}	16.0	X	152.61643	291.32951	10.11629	10.24730	0.1612237	0.23054045	2.6341346	21	—	—
320427 2007 VA_{88}	17.1	X	199.17707	343.48175	331.62062	4.76793	0.1219714	0.31163309	2.1546348	21	1 6.7	20.0
320428 2007 VP_{89}	17.5	X	257.49903	17.21564	74.78631	5.61136	0.1540261	0.27487339	2.3426869	21	9 17.8	20.4
320429 2007 VN_{91}	17.5	X	312.74821	126.40864	305.90901	4.70888	0.1346626	0.28255961	2.3000079	21	11 24.8	19.4
320430 2007 VW_{91}	15.4	X	323.55554	206.80449	46.60168	12.49126	0.0358619	0.17681466	3.1438166	21	4 11.6	19.7
320431 2007 VE_{94}	17.3	X	356.55388	214.38843	260.47468	4.49573	0.0759973	0.29921544	2.2138425	21	—	—
320432 2007 VP_{96}	17.0	X	143.53294	194.45423	12.74713	7.05430	0.0627833	0.27614163	2.3355086	21	10 12.2	20.3
320433 2007 VF_{99}	17.6	X	0.94381	283.06771	167.95413	2.95572	0.1188157	0.29652109	2.2272330	21	—	—
320434 2007 VF_{105}	16.9	X	148.71042	50.55097	246.73724	2.63261	0.0587576	0.22377462	2.6869659	21	—	—
320435 2007 VL_{110}	17.4	X	261.34009	78.99134	51.96370	7.53429	0.0562981	0.28248978	2.3003869	21	11 30.5	20.1
320436 2007 VX_{114}	17.6	X	337.98776	279.18291	174.42325	2.32031	0.1188979	0.28957598	2.2627037	21	—	—
320437 2007 VM_{115}	18.0	X	211.52072	313.79158	150.80300	2.90431	0.1402723	0.26542109	2.3979811	21	8 8.5	21.5
320438 2007 VY_{141}	17.5	X	239.21163	279.92012	212.49127	4.78368	0.0771579	0.27846273	2.3225122	21	10 28.6	20.3
320439 2007 VO_{145}	17.5	X	58.57388	88.69018	279.44479	6.49975	0.1404678	0.29224385	2.2489120	21	—	—
320440 2007 VX_{150}	17.5	X	265.02667	130.44693	71.95444	7.67368	0.0880721	0.29701271	2.2247746	21	—	—
320441 2007 VN_{151}	16.6	X	123.74590	150.52620	355.41302	13.32397	0.1713927	0.24321592	2.5418001	21	7 9.4	20.7
320442 2007 VW_{165}	16.1	X	82.85159	5.82120	153.99284	1.25754	0.0810433	0.17826324	3.1267622	21	5 26.3	20.2
320443 2007 VQ_{188}	17.3	X	355.84994	154.69043	281.93290	4.41349	0.1153502	0.29166961	2.2518628	21	—	—
320444 2007 VS_{190}	17.3	X	135.65743	279.52527	67.18263	4.88611	0.2219473	0.30675177	2.1774323	21	—	—
320445 2007 VA_{192}	17.5	X	195.35779	182.76956	281.63073	1.70537	0.1557694	0.25726612	2.4483922	21	7 21.7	21.3
320446 2007 VS_{192}	16.4	X	159.23143	331.18074	151.30043	0.73687	0.1307662	0.18002530	3.1063259	21	7 9.1	21.3
320447 2007 VU_{194}	16.8	X	222.72295	193.04158	78.12165	7.75259	0.1920968	0.29628614	2.2284103	21	—	—
320448 2007 VX_{194}	18.0	X	258.54959	167.66877	282.53386	4.52912	0.1988817	0.26809988	2.3819810	21	9 3.2	21.0
320449 2007 VN_{198}	15.5	X	0.59527	192.28694	102.47109	7.85639	0.0595374	0.18167197	3.0875270	21	7 22.1	19.5
320450 2007 VT_{200}	17.4	X	124.13557	326.60252	219.02489	4.71986	0.1666177	0.26714049	2.3876806	21	8 26.5	21.0
320451 2007 VU_{206}	17.5	X	321.39633	216.12446	190.22841	6.16910	0.1190246	0.28025974	2.3125736	21	11 4.1	19.5
320452 2007 VV_{210}	16.7	X	241.24263	60.79234	333.85755	4.40652	0.0190534	0.18919843	3.0050915	21	6 23.6	21.0
320453 2007 VT_{211}	17.7	X	226.93403	122.38260	132.28897	3.12219	0.0794159	0.30311007	2.1948380	21	—	—
320454 2007 VS_{217}	17.7	X	242.44009	148.92632	67.49456	3.11058	0.1195635	0.29483223	2.2357303	21	—	—
320455 2007 VZ_{221}	16.1	X	8.17985	221.59793	248.54532	12.01497	0.2085641	0.22371134	2.6874726	21	—	—
320456 2007 VN_{228}	16.9	X	168.43363	123.57340	84.27433	9.13286	0.1588024	0.26866834	2.3786199	21	11 9.1	20.7
320457 2007 VD_{229}	17.4	X	295.31739	336.88383	318.84787	1.49742	0.1195120	0.25439380	2.4667873	21	4 3.1	20.7
320458 2007 VU_{231}	17.5	X	217.03747	169.34927	54.32071	8.97113	0.0759239	0.29275244	2.2463066	21	—	—
320459 2007 VP_{234}	17.6	X	34.34500	172.81187	233.58837	5.45976	0.1813829	0.29410171	2.2394310	21	—	—
320460 2007 VE_{236}	18.0	X	282.80599	127.74373	44.77190	2.24079	0.0616488	0.29677762	2.2259494	21	—	—
320461 2007 VG_{245}	17.3	X	260.28027	9.61704	102.83021	3.26343	0.1575630	0.27705464	2.3303747	21	10 18.9	19.9
320462 2007 VM_{249}	17.7	X	62.58823	233.49172	161.40852	7.48506	0.0814183	0.29912412	2.2142930	21	—	—
320463 2007 VN_{265}	17.6	X	150.03690	44.82222	253.51965	6.05885	0.1412032	0.29617312	2.2289772	21	—	—
320464 2007 VY_{268}	17.3	X	41.09547	222.99139	198.16210	6.56058	0.0808158	0.29702442	2.2247162	21	—	—
320465 2007 VF_{276}	17.1	X	136.83123	134.14977	69.20380	5.79131	0.1868301	0.26055259	2.4277602	21	10 5.6	21.0
320466 2007 VR_{280}	18.2	X	328.55371	14.01316	59.37265	0.58131	0.1509982	0.28546705	2.2843644	21	—	—
320467 2007 VM_{281}	17.4	X	318.57716	147.20840	265.13148	1.27229	0.1998694	0.27987613	2.3146863	21	11 3.0	18.6
320468 2007 VV_{282}	17.2	X	230.88822	200.02673	233.97055	5.99298	0.0952577	0.26546273	2.3977304	21	7 22.8	20.6
320469 2007 VK_{284}	17.9	X	31.53719	7.91752	74.00786	3.84208	0.0610590	0.29917566	2.2140387	21	—	—
320470 2007 VC_{292}	16.3	X	217.61374	230.07652	101.05446	3.64958	0.1823258	0.17274493	3.1930019	21	3 4.7	21.7
320471 2007 VO_{292}	17.9	X	218.23390	291.38499	145.50388	1.37981	0.1760024	0.26195743	2.4190726	21	7 7.0	21.5
320472 2007 VD_{294}	18.0	X	293.40882	329.86269	173.17574	4.29890	0.0941505	0.29140188	2.2532419	21	—	—
320473 2007 VD_{306}	15.3	X	316.90994	102.07251	107.58260	6.89416	0.0293822	0.15298015	3.4624166	21	2 11.4	20.2
320474 2007 VP_{306}	17.5	X	275.33228	83.03776	60.75559	3.16454	0.1124458	0.28562122	2.2835423	21	—	—
320475 2007 VT_{316}	17.8	X	5.01981	28.24152	327.19104	3.46435	0.2123742	0.27923395	2.3182338	21	11 21.4	19.9
320476 2007 VP_{317}	17.2	X	203.04482	125.44126	49.71835	6.01455	0.1678357	0.27808385	2.3246213	21	10 30.9	20.6
320477 2007 VW_{319}	15.6	X	113.25999	223.06954	236.13933	14.16277	0.0482410	0.17901375	3.1180168	21	4 10.1	20.2
320478 2007 VC_{320}	17.4	X	90.67095	10.79303	332.11844	6.09223	0.1564459	0.29777007	2.2210007	21	—	—
320479 2007 VT_{323}	17.5	X	40.21619	212.80652	195.20899	5.38009	0.1334204	0.29538852	2.2329225	21	—	—
320480 2007 VE_{324}	17.2	X	307.41144	191.88692	228.57515	7.41312	0.0782531	0.27786262	2.3258550	21	10 30.1	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320481 2007 VX_{324}	16.5	X	171.05217	280.48504	110.52856	6.39484	0.1295189	0.24528657	2.5274750	21	3 28.3	20.4
320482 2007 VO_{328}	17.5	X	19.58660	68.73127	312.08947	5.86402	0.1634324	0.28943842	2.2634206	21	—	—
320483 2007 VF_{329}	18.1	X	348.84752	141.01593	289.45213	2.27971	0.1435325	0.28820802	2.2698579	21	—	—
320484 2007 VC_{331}	16.3	X	308.84667	278.12129	107.64129	3.14597	0.1371499	0.19517079	2.9434692	21	8 27.6	19.7
320485 2007 VO_{332}	17.0	X	239.88576	146.01256	15.57197	8.45375	0.1087036	0.28300568	2.2975904	21	12 2.6	19.8
320486 2007 VQ_{332}	16.9	X	324.15121	88.14567	293.45338	11.47404	0.2053275	0.27682810	2.3316459	21	9 15.3	18.9
320487 2007 VM_{333}	17.6	X	322.15782	297.82310	151.63188	5.50433	0.1048260	0.28531246	2.2851895	21	—	—
320488 2007 VF_{335}	16.4	X	319.53558	49.04726	264.50405	5.36972	0.1320277	0.26064814	2.4271669	21	6 2.4	19.0
320489 2007 WG_{4}	17.8	X	151.62569	89.54907	242.17634	3.04406	0.1787730	0.30634179	2.1793746	21	—	—
320490 2007 WB_{7}	17.3	X	338.62491	31.25183	335.70325	2.11519	0.2040973	0.27811605	2.3244418	21	10 7.2	18.6
320491 2007 WD_{12}	17.2	X	332.54933	294.09884	118.94175	6.94411	0.1504041	0.28339190	2.2955025	21	12 9.1	19.1
320492 2007 WR_{15}	17.4	X	34.86644	338.05755	81.04846	5.59033	0.1499949	0.29569869	2.2313607	21	—	—
320493 2007 WE_{16}	18.0	X	232.76380	2.17254	137.63439	1.90265	0.1362373	0.27588435	2.3369603	21	10 21.7	21.1
320494 2007 WN_{16}	16.0	X	79.94925	52.75369	91.00479	6.60535	0.1263801	0.17311706	3.1884245	21	5 10.5	20.3
320495 2007 WL_{23}	16.7	X	268.89912	290.78242	147.61487	2.61264	0.0439072	0.20326647	2.8647862	21	9 22.1	20.6
320496 2007 WL_{42}	18.3	X	280.06270	248.50453	170.26807	1.22978	0.1699513	0.27260475	2.3556663	21	8 27.6	20.8
320497 2007 WB_{45}	17.1	X	124.65499	29.16047	314.35695	7.28787	0.0823474	0.30141967	2.2030363	21	—	—
320498 2007 WX_{48}	16.8	X	350.88806	196.17091	193.01944	3.44951	0.1029427	0.20985980	2.8044640	21	11 15.4	20.0
320499 2007 WR_{63}	17.2	X	345.39018	317.21989	105.90152	5.40999	0.0268676	0.28552445	2.2840583	21	—	—
320500 2007 XG_{5}	16.1	X	245.09819	279.39933	113.19381	2.39692	0.0922053	0.18736750	3.0246366	21	6 16.8	20.4
320501 2007 XQ_{6}	17.4	X	301.90938	179.76637	266.09675	2.87541	0.1841388	0.27973123	2.3154856	21	11 19.3	19.2
320502 2007 XE_{14}	15.3	X	332.57777	254.52472	69.55185	10.37041	0.0656008	0.19072636	2.9890205	21	7 19.9	19.2
320503 2007 XO_{17}	18.1	X	218.90787	77.53858	47.87863	3.10767	0.1713231	0.26856291	2.3792424	21	9 12.3	21.7
320504 2007 XS_{20}	17.6	X	276.01728	345.53458	78.84515	3.68650	0.1710669	0.27115716	2.3640428	21	8 31.5	20.3
320505 2007 XE_{22}	18.1	X	277.20220	155.38082	284.37486	2.22712	0.1653589	0.27384040	2.3485747	21	9 22.9	20.8
320506 2007 XN_{22}	17.6	X	241.28531	221.14753	266.81674	2.65658	0.1446507	0.27463598	2.3440368	21	10 12.8	20.8
320507 2007 XJ_{39}	17.3	X	10.83235	69.28249	335.69576	5.64789	0.1361892	0.28523061	2.2856267	21	—	—
320508 2007 XX_{45}	15.5	X	194.30577	228.48174	220.49806	8.66323	0.1271139	0.18590259	3.0405053	21	6 30.6	20.4
320509 2007 XA_{46}	16.9	X	222.10489	359.35821	101.34749	12.38507	0.1980623	0.26541842	2.3979972	21	8 12.1	20.7
320510 2007 XN_{51}	18.2	X	173.69634	266.53848	215.45059	0.56345	0.1401154	0.25670903	2.4519331	21	7 23.7	22.1
320511 2007 XU_{54}	16.7	X	283.10096	213.57224	163.38165	0.50902	0.0405564	0.19042177	2.9922071	21	7 21.4	20.8
320512 2007 XB_{56}	16.7	X	313.76416	295.58579	74.27718	8.39368	0.2056153	0.27215687	2.3582500	21	8 11.7	18.8
320513 2007 XU_{57}	17.4	X	205.63230	241.10753	263.99167	1.75370	0.1046154	0.26295193	2.4129693	21	9 27.2	20.8
320514 2007 XM_{58}	18.0	X	260.34872	77.63927	16.29871	5.11989	0.1694363	0.26927823	2.3750270	21	9 19.2	20.9
320515 2007 YA_{3}	17.6	X	249.23404	147.17499	330.36687	2.48641	0.1827990	0.27020790	2.3695763	21	10 2.9	20.8
320516 2007 YP_{3}	17.6	X	306.45807	10.26651	57.16421	1.02157	0.1969741	0.27852394	2.3221719	21	10 29.6	19.2
320517 2007 YT_{8}	16.9	X	78.29170	228.85173	345.94936	5.46738	0.0518266	0.25653851	2.4530195	21	7 29.6	19.9
320518 2007 YS_{18}	17.1	X	81.52864	241.40351	105.18777	4.64507	0.0609695	0.28801953	2.2708481	21	—	—
320519 2007 YO_{22}	17.8	X	145.56342	352.10650	142.40065	1.38667	0.1231984	0.25307339	2.4753602	21	7 10.5	21.4
320520 2007 YZ_{27}	17.7	X	187.53239	132.08488	355.09391	5.14163	0.1871052	0.25909817	2.4368370	21	8 13.6	21.7
320521 2007 YM_{30}	17.4	X	172.03843	198.14990	21.19131	3.19896	0.0714976	0.27951805	2.3166627	21	11 30.6	20.6
320522 2007 YH_{37}	17.4	X	278.75134	24.44731	73.65916	3.28197	0.1642170	0.27443843	2.3451616	21	10 25.7	19.6
320523 2007 YY_{38}	17.6	X	229.35668	86.50566	54.37320	2.99973	0.1314521	0.27108678	2.3644519	21	10 18.9	20.7
320524 2007 YZ_{40}	16.8	X	160.15691	73.49161	85.56577	14.00196	0.0754522	0.26059202	2.4275153	21	9 2.9	20.5
320525 2007 YG_{41}	17.0	X	155.60613	184.25523	356.57465	2.60577	0.1429312	0.26162719	2.4211078	21	9 20.8	20.8
320526 2007 YW_{41}	16.0	X	335.66789	207.88269	52.54269	1.27519	0.0539128	0.16869114	3.2439529	21	5 2.1	20.3
320527 2007 YX_{43}	18.0	X	242.91556	83.04718	30.20651	1.60685	0.1416815	0.26748729	2.3856164	21	9 26.2	21.0
320528 2007 YZ_{45}	17.8	X	241.87757	347.32892	128.77041	2.97009	0.1537826	0.26785428	2.3834369	21	9 27.9	20.9
320529 2007 YO_{52}	16.5	X	173.56638	323.42492	57.30937	6.67181	0.1541918	0.24003160	2.5642307	21	3 20.1	20.5
320530 2007 YX_{58}	17.2	X	242.44462	337.56567	136.11259	5.92488	0.0932084	0.26735672	2.3863931	21	10 5.5	20.2
320531 2007 YX_{61}	17.6	X	175.97324	236.81475	198.90018	1.16731	0.1807145	0.24496952	2.5296553	21	5 27.8	21.6
320532 2007 YS_{62}	17.7	X	113.53904	331.38840	291.10290	3.49501	0.1232208	0.26958377	2.3732321	21	11 21.5	21.3
320533 2007 YY_{63}	17.2	X	271.79364	133.41698	269.88176	3.10303	0.1604159	0.26042246	2.4285689	21	7 24.3	20.4
320534 2007 YU_{64}	17.6	X	190.40400	338.83594	145.20066	1.80336	0.1418250	0.25684162	2.4510892	21	8 12.2	21.4
320535 2007 YY_{65}	17.4	X	117.74631	45.49041	160.77206	1.49036	0.1268814	0.25826862	2.4420522	21	9 14.5	20.8
320536 2007 YA_{67}	17.1	X	95.98237	122.06535	102.66900	5.57043	0.0733991	0.25835983	2.4414775	21	9 10.3	20.4
320537 2007 YC_{69}	17.1	X	4.60221	305.06329	342.92662	5.69739	0.1194119	0.25302198	2.4756954	21	7 23.9	19.6
320538 2007 YY_{70}	17.0	X	307.65273	71.19550	6.87340	6.38044	0.0784655	0.28111296	2.3078919	21	11 24.9	19.4
320539 2007 YQ_{71}	16.8	X	196.99654	233.06913	196.82512	5.50690	0.1408815	0.25138387	2.4864388	21	6 9.1	20.7
320540 2008 AN_{2}	15.3	X	187.34224	354.58109	108.71698	13.09989	0.0383897	0.17929816	3.1147187	21	7 14.2	19.9
320541 2008 AD_{3}	16.8	X	237.59548	172.67085	312.95458	6.45751	0.1456646	0.26669718	2.3903258	21	10 1.8	20.2
320542 2008 AK_{10}	17.0	X	87.02595	230.50826	279.93572	4.93770	0.1108202	0.24217688	2.5490651	21	5 19.2	20.2
320543 2008 AY_{14}	16.5	X	282.19111	264.50487	140.62639	6.43950	0.0831199	0.26240061	2.4163480	21	8 25.6	19.1
320544 2008 AJ_{15}	18.0	X	227.90804	286.58077	189.84577	1.71374	0.1580551	0.26456789	2.4031338	21	9 9.3	21.4
320545 2008 AC_{16}	17.1	X	99.21613	25.63093	134.05347	10.17095	0.1365631	0.24590495	2.5232360	21	6 22.9	20.7
320546 2008 AC_{17}	17.1	X	166.27877	241.78392	278.76528	3.04119	0.1409963	0.25860205	2.4399527	21	9 3.4	20.8
320547 2008 AL_{19}	16.3	X	158.78313	75.66103	113.53356	7.33762	0.1163322	0.26167739	2.4207982	21	10 8.5	20.0
320548 2008 AR_{30}	17.7	X	289.90610	112.02349	337.74222	6.03094	0.0584465	0.27352677	2.3503696	21	11 11.9	20.6
320549 2008 AD_{34}	17.1	X	313.74013	258.96994	116.46914	7.07634	0.1285188	0.26489688	2.4011437	21	8 30.2	19.5
320550 2008 AL_{36}	17.0	X	319.04705	262.83332	116.47445	7.00219	0.1450343	0.26627624	2.3928443	21	9 15.5	19.2
320551 2008 AL_{38}	17.7	X	154.71782	87.53012	160.98423	5.62213	0.1329106	0.27488018	2.3426483	21	12 16.3	21.3
320552 2008 AE_{39}	17.1	X	192.02132	78.43508	153.69498	1.42896	0.2209533	0.27496983	2.3421391	21	12 24.7	20.6
320553 2008 AD_{41}	17.1	X	120.29519	202.50918	12.32818	3.68911	0.1514235	0.25739030	2.4476046	21	9 30.0	20.8
320554 2008 AH_{42}	16.9	X	263.31396	320.56252	74.74554	2.42979	0.1908022	0.25828603	2.4419425	21	6 28.2	20.2
320555 2008 AM_{42}	16.9	X	211.45134	332.88062	139.80943	11.24913	0.1179163	0.26094504	2.4253254	21	8 21.8	20.4
320556 2008 AC_{45}	13.0	X	342.40104	225.25541	53.37777	25.82785	0.0913420	0.08169467	5.2602564	21	6 1.6	19.6
320557 2008 AQ_{49}	17.0	X	109.55671	260.25490	311.66581	4.81800	0.0915099	0.25945610	2.4345953	21	9 7.6	20.4
320558 2008 AV_{58}	16.5	X	217.41662	47.76782	138.65788	4.00151	0.0461861	0.20296107	2.8676593	21	12 2.5	20.5
320559 2008 AG_{59}	17.5	X	75.26211	295.91081	172.02661	1.74490	0.0897182	0.23247637	2.6194906	21	3 2.9	20.6
320560 2008 AO_{64}	17.5	X	88.74054	79.67489	154.02467	5.31227	0.1330820	0.25629177	2.4545937	21	9 19.4	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320561 2008 AJ_{68}	17.4	X	203.38189	352.31196	128.43049	2.35083	0.1135463	0.25921916	2.4360787	21	8 23.6	21.0
320562 2008 AE_{74}	17.4	X	236.66544	312.16520	162.61661	1.44382	0.1303151	0.26488224	2.4012322	21	9 21.5	20.7
320563 2008 AT_{78}	17.6	X	247.48049	174.07476	334.17865	1.00062	0.1211090	0.27381288	2.3487320	21	11 22.6	20.2
320564 2008 AG_{82}	17.0	X	133.12880	162.53588	47.14933	4.09886	0.1222931	0.26260586	2.4150888	21	10 6.4	20.5
320565 2008 AF_{83}	16.2	X	263.98156	159.56732	105.61785	15.48959	0.0681268	0.22957949	2.6414800	21	1 28.3	20.0
320566 2008 AO_{86}	17.1	X	113.64716	92.94213	115.34309	6.84667	0.1463257	0.25868117	2.4394551	21	9 17.3	20.7
320567 2008 AL_{87}	17.0	X	84.21047	24.00037	292.85402	6.39909	0.1233680	0.27391420	2.3481528	21	12 31.4	20.4
320568 2008 AT_{91}	16.9	X	174.05882	95.10304	89.29621	5.06507	0.0851307	0.26504813	2.4002302	21	10 18.5	20.3
320569 2008 AX_{92}	17.4	X	263.97365	355.58568	30.62041	2.99080	0.1962700	0.25938840	2.4350190	21	6 15.6	20.7
320570 2008 AP_{98}	17.3	X	249.60069	24.13093	85.43391	5.55139	0.0471916	0.26732913	2.3865573	21	10 17.2	20.2
320571 2008 AO_{103}	17.5	X	283.43063	3.04976	87.65568	4.13927	0.1414520	0.27383325	2.3486155	21	10 27.2	19.8
320572 2008 AB_{104}	17.9	X	256.09461	77.66401	23.58833	1.63731	0.1341525	0.26996284	2.3710100	21	9 28.5	20.7
320573 2008 AL_{104}	17.4	X	339.17252	330.07452	113.72262	6.27155	0.0209072	0.28294233	2.2979334	21	—	—
320574 2008 AP_{105}	17.5	X	288.29254	65.63027	13.24518	2.14593	0.2164395	0.27317416	2.3523917	21	10 3.6	19.3
320575 2008 AM_{110}	17.0	X	227.89498	358.36119	125.03475	3.98249	0.0767641	0.26525422	2.3989868	21	10 1.4	20.2
320576 2008 AA_{112}	17.2	X	299.14280	46.02744	123.59345	6.09201	0.0707735	0.28693223	2.2765813	21	—	—
320577 2008 AP_{115}	17.6	X	274.35771	185.35416	206.43198	0.68940	0.1892546	0.25857541	2.4401203	21	7 7.3	20.6
320578 2008 AU_{115}	17.5	X	278.05961	74.94379	321.50445	4.42487	0.1183096	0.25970723	2.4330257	21	7 31.5	20.4
320579 2008 AV_{126}	17.2	X	178.90751	162.30073	116.92737	5.49255	0.1084104	0.28876478	2.2669394	21	—	—
320580 2008 AZ_{128}	17.0	X	121.78958	278.84209	293.46054	5.31098	0.1021345	0.26222833	2.4174063	21	9 22.2	20.6
320581 2008 AX_{134}	16.8	X	129.27371	158.03887	293.86106	13.42282	0.0988380	0.23907450	2.5710699	21	4 17.7	20.7
320582 2008 AW_{136}	17.5	X	156.21436	347.84760	159.50814	6.02912	0.1278140	0.25464225	2.4651825	21	8 7.4	21.2
320583 2008 BE_{3}	16.5	X	148.18787	27.04412	355.22031	3.21180	0.2739633	0.23707277	2.5855222	21	3 5.4	20.8
320584 2008 BO_{10}	17.4	X	243.76798	100.18508	8.00061	6.53059	0.0912079	0.26717904	2.3874510	21	9 27.7	20.4
320585 2008 BN_{12}	16.8	X	209.00240	147.78711	10.27396	7.20124	0.0346001	0.26896583	2.3768657	21	10 26.5	19.8
320586 2008 BS_{18}	17.4	X	145.87003	316.18551	221.80935	2.69186	0.1335901	0.25811843	2.4429995	21	9 5.9	21.1
320587 2008 BW_{18}	17.2	X	271.43855	310.48539	145.58544	7.10480	0.1144440	0.27058718	2.3673614	21	10 20.0	19.9
320588 2008 BE_{20}	17.2	X	184.40488	228.01745	324.37038	6.13312	0.0757850	0.26917188	2.3756525	21	11 5.7	20.6
320589 2008 BN_{20}	17.2	X	221.45638	3.16057	103.00377	3.35188	0.1835332	0.26093589	2.4253821	21	8 18.4	20.8
320590 2008 BE_{21}	16.7	X	62.96524	292.06633	156.03318	4.60783	0.0656751	0.22185864	2.7024136	21	1 16.7	19.9
320591 2008 BD_{25}	17.2	X	270.99405	209.95597	167.91822	1.73889	0.1843721	0.25851063	2.4405279	21	6 14.5	20.6
320592 2008 BT_{29}	17.6	X	200.22614	340.96627	155.02647	3.31903	0.1603724	0.26157856	2.4214079	21	9 6.2	21.2
320593 2008 BF_{30}	16.7	X	99.98187	78.67797	186.44186	1.68922	0.0693338	0.19441958	2.9510465	21	10 27.6	20.9
320594 2008 BG_{33}	16.3	X	186.09587	238.46644	153.96901	14.02875	0.1008757	0.23522534	2.5990421	21	4 15.1	20.4
320595 2008 BX_{33}	16.9	X	203.07419	67.58197	90.54020	3.37760	0.1349476	0.26387722	2.4073253	21	10 11.5	20.5
320596 2008 BD_{34}	16.5	X	81.23110	311.19435	317.54686	5.11470	0.1108073	0.25797501	2.4439048	21	10 20.7	20.0
320597 2008 BY_{37}	16.9	X	196.38811	332.82237	148.69376	6.32882	0.1739517	0.25711785	2.4493334	21	8 13.1	20.9
320598 2008 BO_{39}	17.1	X	294.08840	321.57552	85.61201	7.20059	0.1385367	0.26629920	2.3927067	21	9 12.5	19.7
320599 2008 BQ_{40}	16.8	X	131.37959	66.02657	28.29313	4.93513	0.1235117	0.24020999	2.5629611	21	5 2.3	20.5
320600 2008 BM_{41}	16.9	X	151.40122	70.75276	122.21810	2.95298	0.1456455	0.26017928	2.4300819	21	10 3.6	20.6
320601 2008 BP_{41}	16.8	X	157.03896	143.95194	42.45105	3.27891	0.1286364	0.26075608	2.4264970	21	9 30.4	20.5
320602 2008 BA_{50}	17.2	X	323.74244	194.32325	143.78125	7.23899	0.0439393	0.25462179	2.4653146	21	7 27.6	20.0
320603 2008 BH_{52}	16.5	X	133.53300	127.46534	311.52219	12.76275	0.1392504	0.23567570	2.5957300	21	4 10.4	20.6
320604 2008 BO_{52}	16.8	X	270.04312	57.89000	357.96087	13.09276	0.1281383	0.26098754	2.4250621	21	8 19.6	19.9
320605 2008 BC_{53}	15.9	X	212.62854	88.05108	340.66869	14.80323	0.0524446	0.24330203	2.5412003	21	6 30.9	19.7
320606 2008 CM_{2}	17.1	X	163.63959	196.12023	93.05263	3.44664	0.1682018	0.28399364	2.2922587	21	—	—
320607 2008 CT_{2}	16.2	X	289.30250	89.39608	155.85810	13.72196	0.0994444	0.22043547	2.7140327	21	1 28.2	20.1
320608 2008 CU_{6}	17.4	X	142.30583	229.85070	350.46045	2.44506	0.0585635	0.26798033	2.3826894	21	10 26.8	20.6
320609 2008 CW_{6}	17.3	X	161.47725	128.50387	96.71244	4.32686	0.1905474	0.26969042	2.3726064	21	11 21.6	21.2
320610 2008 CM_{10}	15.7	X	289.71747	331.33088	13.01112	7.02868	0.2416773	0.24337487	2.5406932	21	5 13.2	19.3
320611 2008 CT_{11}	16.4	X	152.54022	214.03916	108.51835	3.88250	0.0773440	0.21362317	2.7714293	21	—	—
320612 2008 CM_{18}	16.5	X	296.99099	334.55874	1.54233	4.08400	0.1193413	0.24380747	2.5376869	21	6 1.4	19.7
320613 2008 CW_{21}	16.5	X	59.58457	117.05482	57.76538	31.45704	0.2435491	0.23317896	2.6142261	21	5 30.3	19.4
320614 2008 CL_{23}	17.0	X	121.13589	288.24937	311.93918	7.50938	0.1533475	0.26095126	2.4252869	21	10 29.8	20.9
320615 2008 CE_{24}	17.7	X	203.62404	323.26876	137.91982	3.67758	0.1357188	0.25382452	2.4704743	21	7 26.6	21.3
320616 2008 CV_{24}	17.3	X	106.78753	192.10656	40.86183	3.03185	0.1365924	0.25530047	2.4609435	21	10 8.7	20.9
320617 2008 CH_{27}	17.6	X	171.01687	52.33863	26.85296	3.24672	0.0763168	0.24485076	2.5304732	21	5 23.2	21.3
320618 2008 CN_{27}	16.2	X	240.92270	345.05707	339.15747	11.87832	0.2059991	0.23439810	2.6051536	21	3 6.3	20.6
320619 2008 CJ_{32}	16.8	X	350.52275	286.38249	349.93598	4.09629	0.1815438	0.24143487	2.5542852	21	5 31.3	19.1
320620 2008 CR_{33}	17.7	X	154.55911	211.26492	6.98501	3.07029	0.2177593	0.26233137	2.4167732	21	11 4.6	21.7
320621 2008 CA_{34}	17.6	X	119.27387	204.17971	20.42230	2.61346	0.1549816	0.25721118	2.4487408	21	10 11.5	21.4
320622 2008 CG_{34}	17.4	X	118.27967	135.75028	323.99504	4.31598	0.2699618	0.23943176	2.5685116	21	5 10.9	21.4
320623 2008 CA_{40}	17.5	X	165.30854	62.31592	153.44255	2.78011	0.1616754	0.26612125	2.3937733	21	11 13.9	21.2
320624 2008 CT_{40}	16.7	X	210.78761	298.04798	294.22979	5.16853	0.0848729	0.27806153	2.3247457	21	—	—
320625 2008 CE_{42}	17.0	X	163.63553	253.76267	170.80372	13.48922	0.1523460	0.23937487	2.5689186	21	5 4.2	21.2
320626 2008 CN_{45}	17.8	X	164.74530	65.76784	72.81522	3.51794	0.1160961	0.25057948	2.4917571	21	8 6.3	21.5
320627 2008 CF_{49}	17.1	X	275.30338	314.76637	113.95417	4.05839	0.1035414	0.26498680	2.4006005	21	9 16.6	19.8
320628 2008 CB_{69}	17.1	X	95.90871	319.95910	284.75934	5.39760	0.0728842	0.26198975	2.4188737	21	10 1.8	20.5
320629 2008 CS_{70}	17.4	X	86.84520	221.72593	69.01579	4.31302	0.0925497	0.27021495	2.3695350	21	11 27.2	20.6
320630 2008 CQ_{74}	17.4	X	115.31222	196.76007	1.12539	9.68046	0.2022883	0.25215852	2.4813439	21	9 8.5	21.3
320631 2008 CA_{75}	16.1	X	328.06978	133.09000	140.49700	11.39807	0.0817295	0.23147289	2.6270558	21	5 3.9	19.5
320632 2008 CT_{76}	17.2	X	272.85345	55.08880	28.71874	6.87278	0.1015430	0.26755783	2.3851971	21	10 4.6	19.8
320633 2008 CR_{77}	17.3	X	65.74031	187.82878	16.14998	4.00323	0.2268513	0.24233259	2.5479731	21	7 24.4	20.5
320634 2008 CF_{78}	15.9	X	343.56709	188.90280	77.79771	5.74688	0.1050238	0.17383579	3.1796300	21	5 17.8	19.7
320635 2008 CG_{79}	15.8	X	232.13769	276.05594	131.50936	12.04703	0.1325631	0.17730209	3.1380520	21	6 18.6	20.8
320636 2008 CR_{85}	17.0	X	36.28259	254.52744	47.66468	3.41144	0.1892021	0.25510218	2.4622186	21	10 21.3	19.8
320637 2008 CM_{87}	15.4	X	321.27040	302.49997	17.31078	7.21224	0.2197699	0.24400391	2.5363247	21	5 30.7	18.1
320638 2008 CU_{87}	17.4	X	284.05981	271.54955	76.16751	3.95912	0.0579191	0.24471331	2.5314207	21	6 9.9	20.6
320639 2008 CZ_{87}	16.2	X	74.40782	39.23313	19.57404	6.02857	0.0280261	0.21663697	2.7456658	21	—	—
320640 2008 CY_{89}	17.7	X	326.80251	92.59066	327.85565	6.06219	0.0833108	0.27751158	2.3278160	21	12 1.8	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320641 2008 CM_{92}	17.2	X	67.66859	228.62668	69.38743	3.15968	0.1959323	0.26022065	2.4298244	21	11 25.4	20.6
320642 2008 CJ_{99}	17.2	X	245.57561	328.85520	132.97907	2.95642	0.1653226	0.26394699	2.4069011	21	9 10.7	20.5
320643 2008 CO_{105}	16.9	X	81.78823	270.78149	1.10569	7.14507	0.1308804	0.26049158	2.4281392	21	10 28.6	20.3
320644 2008 CK_{113}	15.9	X	30.11994	283.38409	339.43798	14.61019	0.0470504	0.17637305	3.1490622	21	7 25.9	20.3
320645 2008 CA_{118}	17.7	X	194.70287	153.04536	346.50590	1.43140	0.1235772	0.25962847	2.4335177	21	9 7.1	21.2
320646 2008 CL_{119}	17.3	X	185.62798	154.00793	327.50564	6.14873	0.0985128	0.25461232	2.4653757	21	8 5.9	20.8
320647 2008 CO_{126}	17.0	X	71.74042	102.46931	155.31460	6.45137	0.0715778	0.25633903	2.4542919	21	9 21.9	20.2
320648 2008 CC_{127}	17.4	X	104.87178	77.32147	163.68619	2.69833	0.1540106	0.25767293	2.4458145	21	10 18.8	21.0
320649 2008 CN_{127}	17.1	X	35.41371	302.43492	324.96483	4.73681	0.0219865	0.25165175	2.4846740	21	8 5.3	20.0
320650 2008 CQ_{130}	17.7	X	231.01932	306.16600	117.62630	2.04895	0.1794384	0.25954208	2.4340577	21	7 2.3	21.4
320651 2008 CW_{130}	17.8	X	229.40333	94.31656	341.64359	1.29980	0.1670434	0.25603438	2.4562384	21	7 18.2	21.4
320652 2008 CV_{132}	17.6	X	182.99527	26.77413	27.66195	0.48474	0.1959684	0.24284852	2.5443630	21	5 7.3	21.7
320653 2008 CD_{141}	16.6	X	291.34326	320.54519	325.55299	9.84445	0.0635900	0.23143703	2.6273272	21	3 23.8	20.3
320654 2008 CB_{142}	16.9	X	35.98034	58.90816	167.25159	12.76432	0.1427905	0.23855339	2.5748128	21	6 20.8	19.9
320655 2008 CM_{145}	17.1	X	94.70824	334.83596	317.38281	5.31668	0.2175323	0.26466252	2.4025610	21	12 16.0	21.0
320656 2008 CN_{145}	17.5	X	114.51383	296.69573	274.84515	1.30398	0.1824070	0.25290423	2.4764638	21	9 21.1	21.4
320657 2008 CS_{152}	17.1	X	177.24577	155.82132	348.29232	9.57636	0.1580513	0.25643771	2.4536623	21	8 26.6	20.9
320658 2008 CY_{152}	16.9	X	93.77233	303.72993	241.07616	8.27290	0.1733642	0.24502113	2.5293001	21	7 22.8	20.6
320659 2008 CA_{154}	16.7	X	311.19739	263.47341	32.05944	5.01514	0.1270771	0.23601921	2.5932108	21	4 26.5	19.6
320660 2008 CX_{159}	16.9	X	57.80029	220.18606	308.95953	3.63695	0.2355431	0.23400218	2.6080913	21	5 20.7	19.6
320661 2008 CA_{163}	16.4	X	244.42383	118.99443	143.54473	6.17037	0.0284780	0.22013622	2.7164917	21	1 6.2	20.2
320662 2008 CS_{165}	16.6	X	191.69778	198.85743	187.04330	9.07772	0.1059959	0.23376377	2.6098642	21	4 9.5	20.5
320663 2008 CE_{171}	17.1	X	297.00698	121.59598	268.12949	4.57897	0.0145622	0.25739006	2.4476061	21	9 1.1	20.3
320664 2008 CS_{175}	16.8	X	118.21267	165.31728	342.60290	14.93199	0.0557585	0.24592067	2.5231285	21	6 19.7	20.5
320665 2008 CM_{176}	16.3	X	346.57377	163.78424	111.47309	16.01912	0.1015216	0.24281200	2.5446181	21	6 2.3	19.3
320666 2008 CB_{178}	17.2	X	171.93931	165.11861	19.37422	7.41804	0.1528562	0.26294165	2.4130322	21	10 11.3	21.0
320667 2008 CE_{179}	16.7	X	103.02226	110.92622	51.47975	11.34458	0.1192309	0.24254819	2.5464629	21	6 28.3	20.3
320668 2008 CS_{179}	17.3	X	292.95497	289.80211	196.06759	5.78353	0.1361579	0.27864190	2.3215164	21	—	—
320669 2008 CZ_{179}	16.9	X	86.13882	124.07928	45.49741	12.42433	0.1266552	0.24031022	2.5622484	21	6 15.9	20.3
320670 2008 CU_{183}	17.4	X	186.54153	111.90341	33.32848	4.96169	0.1229563	0.25805850	2.4433777	21	9 8.1	21.0
320671 2008 CH_{188}	16.8	X	93.89346	219.25839	43.10520	5.33943	0.1674007	0.25931472	2.4354802	21	11 4.3	20.3
320672 2008 CK_{188}	17.5	X	206.16178	307.62983	235.39277	5.15194	0.1275126	0.27000162	2.3707830	21	11 15.8	20.7
320673 2008 CP_{193}	16.1	X	140.77929	51.92149	154.12455	13.83025	0.0195603	0.18810344	3.0167424	21	9 29.4	20.5
320674 2008 CX_{193}	16.5	X	251.34107	147.55551	135.63937	5.36454	0.0802980	0.21898589	2.7259965	21	2 5.4	20.3
320675 2008 CB_{194}	16.3	X	51.03676	166.32284	3.20832	23.38130	0.1366583	0.23014935	2.6371179	21	4 15.5	19.5
320676 2008 CL_{194}	16.6	X	37.49210	99.62915	147.04378	7.79787	0.1697106	0.23863429	2.5742308	21	7 27.6	19.2
320677 2008 CR_{197}	17.7	X	148.20272	92.33299	7.78456	5.10329	0.1467734	0.24189838	2.5510213	21	5 29.7	21.6
320678 2008 CO_{201}	17.1	X	335.57177	270.44808	306.55835	3.26986	0.0330874	0.22731009	2.6590320	21	2 28.6	20.5
320679 2008 CB_{205}	17.6	X	238.84638	112.13354	3.25920	2.50313	0.1430156	0.26654957	2.3912082	21	9 23.3	20.5
320680 2008 CP_{205}	16.6	X	138.49550	269.25456	147.42202	11.47971	0.1463412	0.22853920	2.6494898	21	3 30.1	20.6
320681 2008 CO_{209}	16.7	X	212.23457	216.89562	225.53885	6.13985	0.1231340	0.25342177	2.4730910	21	7 10.6	20.5
320682 2008 CH_{210}	17.6	X	95.29368	280.46956	330.91274	4.41818	0.1702402	0.25766436	2.4458687	21	10 20.9	21.4
320683 2008 CE_{211}	16.3	X	277.74796	352.82966	183.58999	9.33575	0.0942307	0.21067994	2.7971812	21	—	—
320684 2008 CG_{211}	16.8	X	325.37950	105.67300	100.61796	3.30374	0.1373270	0.22236399	2.6983177	21	1 19.4	20.2
320685 2008 CR_{211}	17.0	X	146.35500	233.00343	356.02261	8.05872	0.1258948	0.26680720	2.3896686	21	11 9.7	20.8
320686 2008 CR_{213}	16.9	X	247.98773	320.89873	255.17227	5.57753	0.0659983	0.28333939	2.2957860	21	—	—
320687 2008 CK_{214}	17.0	X	52.48035	131.81846	116.11544	4.28930	0.1626571	0.24211167	2.5495228	21	8 25.1	19.9
320688 2008 CR_{214}	16.8	X	179.46103	127.66218	304.58748	6.54133	0.1434020	0.24305794	2.5429013	21	5 24.5	20.9
320689 2008 CS_{214}	16.4	X	258.69861	159.53361	206.27298	4.44913	0.2340933	0.24124182	2.5556477	21	5 11.2	20.4
320690 2008 CK_{215}	16.5	X	89.98252	339.39964	128.33442	15.73796	0.0729590	0.23090357	2.6313722	21	3 28.2	20.2
320691 2008 CL_{215}	17.0	X	122.19853	163.05220	86.13826	5.80288	0.1971514	0.26050844	2.4280345	21	11 16.9	20.9
320692 2008 DS	17.2	X	174.90306	88.41225	155.09364	0.66950	0.1617519	0.27283488	2.3543415	21	12 27.2	20.7
320693 2008 DQ_{1}	17.5	X	184.23436	274.89924	317.31309	3.24089	0.1580365	0.27411684	2.3469954	21	12 22.9	20.8
320694 2008 DF_{3}	17.8	X	356.47661	359.22177	346.77791	1.16810	0.0114282	0.26392702	2.4070225	21	9 28.5	20.7
320695 2008 DY_{11}	16.5	X	323.02883	162.22707	137.09027	15.79722	0.1490987	0.24409630	2.5356847	21	5 22.3	19.7
320696 2008 DX_{13}	16.3	X	230.81536	143.82968	147.63964	14.35305	0.1572002	0.21887250	2.7269379	21	1 21.9	20.9
320697 2008 DQ_{14}	17.6	X	249.11327	343.21934	99.11982	2.62984	0.1581224	0.26096221	2.4252190	21	8 20.1	20.9
320698 2008 DZ_{17}	16.6	X	94.25271	166.97863	137.23099	3.86865	0.2351170	0.26640240	2.3920888	21	12 31.2	20.7
320699 2008 DT_{26}	16.0	X	186.61462	119.90075	127.80808	3.23672	0.0119212	0.20284251	2.8687766	21	—	—
320700 2008 DD_{27}	16.8	X	22.84114	97.23269	84.77528	11.05730	0.1492087	0.22747116	2.6577767	21	3 28.2	19.7
320701 2008 DU_{29}	17.2	X	118.68447	92.73190	157.38966	7.38249	0.0626945	0.26318589	2.4115392	21	11 9.9	20.6
320702 2008 DW_{32}	16.6	X	175.11464	121.13069	51.69211	3.13205	0.1187229	0.18495679	3.0508617	21	9 25.3	21.3
320703 2008 DO_{35}	16.4	X	328.44033	285.73665	349.48844	12.68209	0.1785323	0.23047044	2.6346680	21	4 12.6	19.6
320704 2008 DH_{36}	15.9	X	22.84664	249.54087	353.52721	22.21322	0.0303383	0.23984994	2.5655253	21	6 9.6	19.7
320705 2008 DZ_{37}	17.2	X	136.76343	114.38433	343.49886	3.78158	0.2507939	0.23968746	2.5666846	21	5 24.1	21.5
320706 2008 DT_{38}	16.1	X	91.24192	126.57178	357.50877	12.82727	0.1027122	0.22992778	2.6388118	21	4 15.2	19.7
320707 2008 DG_{39}	17.2	X	73.89435	309.42869	191.78736	3.05035	0.1241937	0.23100241	2.6306215	21	4 21.2	20.3
320708 2008 DG_{43}	17.1	X	229.83875	66.80683	59.06344	7.09790	0.1424411	0.26564483	2.3966345	21	9 30.1	20.5
320709 2008 DD_{44}	16.3	X	306.37307	132.52502	162.85416	15.49396	0.1144130	0.23178473	2.6246989	21	4 26.2	19.9
320710 2008 DR_{46}	17.0	X	76.78222	51.30459	151.78969	5.62596	0.1337249	0.24096304	2.5576184	21	7 21.6	20.3
320711 2008 DP_{48}	16.7	X	279.75352	334.51839	336.61683	5.89817	0.1643644	0.23798410	2.5789173	21	3 29.7	20.4
320712 2008 DP_{50}	16.0	X	275.33518	259.82690	12.90620	15.03201	0.0889011	0.22166821	2.7039611	21	2 23.8	20.1
320713 2008 DR_{56}	16.3	X	301.60175	345.02937	349.44089	13.69392	0.0895700	0.24663073	2.5182834	21	6 10.0	19.7
320714 2008 DO_{59}	16.4	X	71.70241	88.80417	183.35157	7.15004	0.1188523	0.25569579	2.4584063	21	10 18.1	19.6
320715 2008 DC_{62}	16.8	X	156.38326	197.16353	6.42813	6.23908	0.0789878	0.25900280	2.4374352	21	10 19.5	20.3
320716 2008 DS_{62}	17.1	X	174.39423	313.57179	109.66546	3.46796	0.2019891	0.24140037	2.5545286	21	5 12.2	21.4
320717 2008 DY_{65}	17.2	X	132.17546	15.44810	140.92333	7.94728	0.1953427	0.24591161	2.5231905	21	7 30.1	21.2
320718 2008 DE_{68}	16.0	X	143.06004	16.95241	309.09849	5.22102	0.0882488	0.20397511	2.8581473	21	—	—
320719 2008 DT_{68}	16.7	X	48.80287	134.32873	13.54118	14.71137	0.0947370	0.22520902	2.6755446	21	3 20.7	19.8
320720 2008 DN_{74}	17.4	X	114.35010	120.35699	106.82769	2.25655	0.1379228	0.25566264	2.4586188	21	10 9.7	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320721 2008 DE_{81}	17.7	X	101.21476	278.74917	198.19187	1.84438	0.1537252	0.23397819	2.6082695	21	5 1.2	21.1
320722 2008 DD_{82}	17.1	X	354.80939	249.33469	11.62582	7.54812	0.1307516	0.23467018	2.6031395	21	5 19.5	19.9
320723 2008 DM_{83}	17.7	X	150.79487	265.64478	190.53043	5.48336	0.2254880	0.24353106	2.5396068	21	6 2.9	22.0
320724 2008 DZ_{83}	16.7	X	256.20561	106.64572	185.57153	11.21609	0.0278759	0.22312394	2.6921873	21	2 23.9	20.6
320725 2008 DU_{88}	16.9	X	344.43544	32.11466	174.28914	7.50957	0.1539913	0.22322642	2.6913632	21	2 11.8	20.1
320726 2008 DV_{88}	17.1	X	291.66775	12.30907	283.19441	1.10625	0.0628912	0.23023413	2.6364705	21	4 9.6	20.5
320727 2008 EH_{2}	17.1	X	64.67316	68.74699	140.51890	3.21129	0.1177236	0.23962675	2.5671181	21	7 10.4	20.2
320728 2008 EW_{3}	15.4	X	252.25816	330.16911	95.07073	9.53342	0.0430527	0.18006414	3.1058792	21	8 14.8	19.9
320729 2008 ER_{10}	17.1	X	63.15263	77.98467	57.97687	5.01679	0.1276884	0.22935569	2.6431980	21	3 30.3	20.1
320730 2008 EO_{11}	16.2	X	238.15497	140.68235	133.49839	9.13464	0.1525306	0.21367184	2.7710085	21	1 9.5	20.7
320731 2008 EK_{15}	16.6	X	187.92166	190.07941	7.07141	5.96203	0.0481338	0.26323227	2.4112559	21	11 18.5	19.9
320732 2008 EO_{15}	16.5	X	153.64067	92.54840	175.54434	6.30486	0.0807528	0.26890024	2.3772522	21	—	—
320733 2008 ER_{21}	16.4	X	137.24606	127.98242	6.36545	15.50701	0.0732278	0.24063707	2.5599277	21	6 27.8	20.4
320734 2008 EB_{22}	16.1	X	146.08206	212.30727	357.04723	2.51824	0.1650615	0.18163430	3.0879539	21	10 10.6	21.2
320735 2008 EP_{29}	16.8	X	121.42745	318.36401	158.71886	4.21174	0.1525837	0.23461638	2.6035375	21	5 26.2	20.6
320736 2008 EX_{31}	16.1	X	73.45960	60.81586	243.26027	4.25100	0.1129089	0.19001779	2.9964466	21	11 18.1	20.4
320737 2008 EL_{36}	17.2	X	31.97710	106.66191	115.74811	3.93626	0.1237373	0.23467652	2.6030927	21	6 5.5	19.8
320738 2008 EN_{36}	16.3	X	175.81161	245.70942	177.33482	21.62955	0.0866697	0.23484739	2.6018299	21	5 12.2	20.5
320739 2008 EA_{37}	17.6	X	136.21563	36.52975	162.58754	1.87105	0.0963062	0.25929845	2.4355821	21	9 23.4	20.9
320740 2008 EC_{40}	16.8	X	353.19553	33.04796	253.18621	4.42887	0.1303877	0.23931526	2.5693452	21	6 26.1	19.2
320741 2008 ED_{41}	16.5	X	121.83702	80.97671	279.69174	4.95683	0.0078948	0.20898545	2.8122808	21	—	—
320742 2008 EX_{41}	16.8	X	100.86710	268.25965	163.24458	6.34551	0.0460274	0.21969293	2.7201446	21	2 14.8	20.5
320743 2008 EY_{44}	16.8	X	327.08322	72.64817	203.96049	2.19068	0.1669693	0.23023657	2.6364519	21	4 19.5	19.7
320744 2008 EN_{47}	16.8	X	125.87558	338.24359	98.82287	4.19771	0.0634591	0.22529923	2.6748304	21	3 30.7	20.4
320745 2008 EF_{48}	16.5	X	9.35368	1.43621	188.64642	12.68855	0.1225877	0.22363901	2.6880521	21	3 6.8	19.7
320746 2008 EN_{51}	16.5	X	213.40621	118.61746	207.26892	5.14833	0.0213508	0.21990533	2.7183928	21	2 15.8	20.3
320747 2008 EQ_{52}	15.8	X	343.32663	255.47594	11.51228	12.82876	0.2397581	0.22921325	2.6442930	21	4 21.3	18.4
320748 2008 EB_{54}	16.4	X	128.18054	287.25240	156.57417	14.65957	0.1326695	0.23113405	2.6296227	21	4 21.6	20.4
320749 2008 EY_{54}	16.9	X	294.89016	136.89259	131.04431	2.70710	0.0304470	0.22332843	2.6905437	21	3 15.9	20.6
320750 2008 EL_{59}	17.2	X	171.16780	253.00466	358.48447	2.17914	0.1237901	0.27052877	2.3677022	21	—	—
320751 2008 EG_{60}	17.3	X	203.12865	326.59593	262.60533	2.19554	0.2047003	0.27147649	2.3621886	21	—	—
320752 2008 ED_{63}	17.7	X	190.15715	211.09500	217.10370	6.74360	0.1043060	0.24387993	2.5371843	21	5 31.5	21.5
320753 2008 EK_{65}	17.0	X	332.43728	307.98415	323.63545	6.21136	0.3115472	0.22859197	2.6490820	21	3 25.2	20.1
320754 2008 EN_{66}	17.6	X	79.22797	186.00478	276.43758	2.89044	0.2027344	0.22794823	2.6540671	21	3 17.8	20.6
320755 2008 EH_{67}	16.8	X	300.32790	19.51097	267.17472	2.88525	0.1559903	0.22927121	2.6438473	21	3 25.3	20.5
320756 2008 EZ_{68}	14.9	X	24.21149	232.28903	120.16415	27.64491	0.2331028	0.17502068	3.1652630	21	12 6.6	19.3
320757 2008 EQ_{69}	17.4	X	131.80441	29.95274	191.04183	2.02385	0.1714261	0.25635962	2.4541605	21	10 19.6	21.3
320758 2008 EW_{74}	16.5	X	109.82888	321.11716	43.33045	4.58955	0.1163331	0.20818148	2.8195166	21	—	—
320759 2008 EC_{75}	17.0	X	168.21937	282.78418	141.14421	4.26203	0.1346871	0.23558472	2.5963982	21	5 5.7	21.1
320760 2008 EO_{75}	17.2	X	59.70061	124.20578	70.95029	3.08061	0.1251040	0.23667179	2.5884417	21	6 13.6	20.3
320761 2008 EB_{76}	17.0	X	8.12472	167.32738	130.26916	4.21188	0.2258455	0.24180810	2.5516562	21	8 23.2	19.0
320762 2008 EV_{81}	17.0	X	155.27935	41.04350	171.86652	9.90904	0.0721777	0.26311755	2.4119567	21	11 3.7	20.5
320763 2008 EM_{82}	17.0	X	104.05452	277.38461	217.08297	8.73509	0.1532660	0.23798061	2.5789426	21	5 28.4	20.5
320764 2008 EA_{86}	17.7	X	135.15491	2.12160	141.00214	6.78790	0.2015971	0.24526815	2.5276015	21	7 16.2	21.7
320765 2008 EW_{86}	16.3	X	320.82489	231.41816	21.03262	11.82328	0.1569562	0.22462403	2.6801879	21	3 14.3	19.7
320766 2008 EL_{92}	16.5	X	297.90209	230.37028	35.54902	8.79217	0.2952383	0.22205959	2.7007831	21	2 12.9	20.8
320767 2008 EP_{92}	15.7	X	249.21876	152.66795	124.67485	22.33990	0.1887640	0.21309042	2.7760467	21	1 21.5	20.3
320768 2008 EE_{95}	16.7	X	354.49066	128.65068	59.17664	5.93117	0.0963076	0.22012280	2.7166021	21	2 15.2	20.0
320769 2008 EJ_{96}	16.8	X	301.58755	35.15781	140.67132	8.72387	0.0523093	0.28231131	2.3013563	21	—	—
320770 2008 EY_{96}	16.9	X	92.94290	311.05976	328.05324	6.12220	0.1059420	0.26496947	2.4007052	21	11 17.6	20.4
320771 2008 EL_{107}	16.3	X	273.77288	178.71656	86.30880	5.89541	0.0684705	0.21987159	2.7186709	21	2 10.7	20.2
320772 2008 EG_{114}	16.3	X	157.17670	58.05772	342.43432	11.04863	0.3062484	0.22930124	2.6436164	21	4 1.8	21.1
320773 2008 EE_{118}	17.3	X	153.24949	286.90670	315.86542	1.82955	0.1566672	0.26710750	2.3878772	21	12 5.3	21.0
320774 2008 EH_{118}	17.2	X	340.70614	107.85563	170.87000	4.03815	0.1150357	0.24048927	2.5609764	21	5 23.9	20.0
320775 2008 EN_{120}	16.7	X	103.78812	156.24219	81.14374	1.27363	0.1145711	0.17907211	3.1173394	21	10 1.4	21.4
320776 2008 EY_{120}	17.4	X	209.76113	97.17866	166.00461	4.83041	0.2254201	0.27666900	2.3325397	21	—	—
320777 2008 EZ_{120}	17.0	X	327.39236	119.58164	174.48716	9.17023	0.1730552	0.23396972	2.6083325	21	5 16.3	19.9
320778 2008 EQ_{121}	16.5	X	129.80488	183.99408	193.03967	6.11234	0.0650986	0.21479843	2.7613109	21	1 17.1	20.3
320779 2008 ES_{122}	16.2	X	172.19621	19.71374	309.53710	5.88193	0.0182968	0.21191119	2.7863358	21	1 5.5	20.2
320780 2008 EQ_{128}	16.1	X	128.75451	180.11259	49.53074	4.79796	0.1140865	0.18425703	3.0585811	21	10 18.3	20.8
320781 2008 EM_{130}	16.5	X	13.52335	16.39616	163.54388	13.94814	0.0326208	0.22537218	2.6742531	21	3 6.1	20.0
320782 2008 EX_{130}	17.4	X	86.21831	150.10546	59.02430	3.74636	0.1506834	0.24441028	2.5335126	21	8 16.5	20.8
320783 2008 EJ_{134}	17.0	X	88.00967	73.86733	331.04764	3.95631	0.0663007	0.21279349	2.7786285	21	—	—
320784 2008 EL_{137}	17.0	X	91.95400	54.18094	38.58630	5.79380	0.0702611	0.22338973	2.6900514	21	3 8.6	20.5
320785 2008 ED_{140}	17.3	X	181.91241	280.70277	144.01451	4.53743	0.2562660	0.24480306	2.5308019	21	5 21.3	21.8
320786 2008 EF_{140}	17.3	X	154.71287	92.08500	144.86917	2.97682	0.1341661	0.26552120	2.3973784	21	11 30.7	21.0
320787 2008 EH_{140}	17.2	X	173.02663	137.94048	150.10833	4.39312	0.1986907	0.27810222	2.3245189	21	—	—
320788 2008 EX_{140}	16.3	X	3.58292	121.13390	346.64337	12.69656	0.1516132	0.21096972	2.7946191	21	—	—
320789 2008 EN_{141}	16.9	X	46.65935	286.18075	215.95201	6.58090	0.0304746	0.22358126	2.6885149	21	2 28.3	20.4
320790 Anestin	16.8	X	161.03617	246.51812	189.45319	17.02645	0.1642101	0.23731587	2.5837562	21	5 15.9	21.1
320791 2008 ER_{146}	17.0	X	15.31590	138.27154	109.31170	3.78860	0.1515669	0.23378508	2.6097056	21	6 12.6	19.5
320792 2008 EL_{148}	17.2	X	30.94322	67.05002	188.06959	6.33630	0.1057144	0.24130590	2.5551952	21	7 18.7	20.1
320793 2008 EZ_{148}	17.0	X	130.97816	11.15001	110.24083	6.84821	0.0841244	0.24035374	2.5619390	21	6 3.9	20.7
320794 2008 EH_{152}	16.2	X	264.43101	94.48931	198.15474	14.28748	0.0688635	0.22284938	2.6943981	21	2 28.8	20.2
320795 2008 EL_{153}	16.5	X	181.60432	288.12733	12.62215	4.15181	0.1331715	0.20094549	2.8868034	21	—	—
320796 2008 EU_{153}	16.8	X	312.63917	58.92500	147.36851	5.81437	0.2309615	0.21459236	2.7630784	21	—	—
320797 2008 EX_{153}	16.8	X	258.19113	88.58776	184.53614	3.99944	0.1685423	0.21292177	2.7775123	21	1 24.7	21.4
320798 2008 EO_{158}	15.7	X	254.66570	208.28776	47.17774	14.63259	0.0465036	0.21258975	2.7804036	21	1 11.5	19.9
320799 2008 EC_{159}	17.5	X	89.67525	275.81753	206.41014	3.84740	0.0274219	0.22760694	2.6567196	21	4 3.3	21.0
320800 2008 EZ_{160}	13.7	X	277.49682	284.12360	46.63647	6.19694	0.0683215	0.08406468	5.1609187	21	5 16.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320801 2008 EF_{161}	17.0	X	235.43852	24.09051	242.87030	3.63862	0.0168754	0.21355715	2.7720005	21	1 2.9	20.9
320802 2008 EC_{162}	16.9	X	0.39281	321.85406	269.74002	2.73076	0.1287632	0.22892092	2.6465436	21	4 18.2	19.6
320803 2008 EK_{162}	17.2	X	142.62990	179.67810	182.57777	5.94337	0.0098179	0.21453996	2.7635284	21	1 7.4	21.0
320804 2008 EW_{163}	16.5	X	116.70346	69.12650	220.01348	5.43096	0.1241736	0.26539632	2.3981303	21	12 27.5	20.2
320805 2008 EZ_{165}	16.6	X	82.80544	51.24141	23.35790	14.00412	0.1835642	0.21962543	2.7207020	21	2 21.3	20.0
320806 2008 EB_{166}	16.4	X	27.59755	95.93314	141.70941	4.53649	0.1348001	0.23254151	2.6190013	21	6 21.0	19.2
320807 2008 EH_{166}	17.0	X	35.26314	141.89722	78.67761	2.83121	0.1691898	0.23242757	2.6198572	21	6 13.9	19.6
320808 2008 EK_{166}	17.1	X	296.69670	27.73592	220.74151	1.13964	0.0213926	0.22237438	2.6982336	21	2 21.3	20.8
320809 2008 EK_{167}	16.5	X	129.36062	184.40401	78.29329	7.72577	0.0803137	0.26468082	2.4024502	21	12 6.7	19.9
320810 2008 FM_{5}	17.0	X	98.00147	55.65135	125.73529	2.99766	0.0809961	0.24104647	2.5570283	21	7 12.5	20.4
320811 2008 FO_{9}	17.2	X	298.19261	305.75270	356.81154	6.25899	0.0389362	0.23760447	2.5816636	21	4 29.3	20.6
320812 2008 FC_{11}	16.9	X	226.45221	287.69706	24.74652	6.23121	0.0550955	0.22436298	2.6822665	21	2 17.3	20.8
320813 2008 FW_{12}	16.8	X	164.89876	201.00388	176.23385	5.83192	0.0325248	0.22585662	2.6704277	21	2 22.8	20.6
320814 2008 FU_{13}	16.5	X	135.27461	20.01130	352.70083	8.08271	0.0991220	0.21578874	2.7528563	21	1 26.2	20.4
320815 2008 FZ_{13}	17.8	X	163.84862	111.30757	347.86165	4.41389	0.1962056	0.24373608	2.5381824	21	6 15.9	22.0
320816 2008 FZ_{14}	16.1	X	350.37718	109.69973	171.66355	12.75528	0.1781707	0.23266341	2.6180865	21	6 11.4	18.9
320817 2008 FD_{23}	16.9	X	195.15422	166.06450	148.02202	6.61703	0.0653281	0.21122970	2.7923256	21	1 15.4	21.2
320818 2008 FE_{24}	16.6	X	295.85713	152.85570	137.65863	6.04723	0.1030960	0.22605186	2.6688899	21	4 6.0	20.2
320819 2008 FM_{24}	16.4	X	261.02821	163.69003	117.62242	5.93566	0.0706464	0.21762471	2.7373516	21	2 15.8	20.3
320820 2008 FO_{25}	17.6	X	151.28677	123.83785	144.50091	2.95780	0.1687471	0.26472944	2.4021561	21	—	—
320821 2008 FO_{26}	15.8	X	35.14296	205.12064	29.96491	14.34317	0.1899973	0.23400528	2.6080682	21	7 11.7	18.8
320822 2008 FH_{27}	16.4	X	63.86106	167.85722	27.32816	14.37961	0.1837624	0.23395834	2.6084170	21	6 30.8	19.8
320823 2008 FA_{29}	17.2	X	168.82941	43.60505	18.93579	4.36500	0.2052998	0.24140555	2.5544920	21	5 4.8	21.5
320824 2008 FO_{31}	17.3	X	336.70257	281.47449	332.98699	3.18623	0.1630548	0.23141220	2.6275151	21	4 3.5	20.3
320825 2008 FX_{37}	17.5	X	56.74527	96.84744	88.01776	3.07870	0.1326314	0.23288326	2.6164385	21	5 26.5	20.3
320826 2008 FB_{38}	16.7	X	76.49217	263.84798	168.91783	7.24146	0.1336465	0.21547434	2.7555334	21	1 25.3	20.1
320827 2008 FU_{39}	17.0	X	313.91856	178.49708	102.00362	2.63988	0.0425027	0.22948814	2.6421809	21	4 24.8	20.5
320828 2008 FY_{40}	17.1	X	315.50683	129.90665	151.07225	4.09038	0.1491772	0.22696772	2.6617054	21	4 12.2	20.4
320829 2008 FY_{43}	15.8	X	270.31052	164.36099	200.64981	5.06090	0.2263192	0.24235315	2.5478290	21	5 23.0	19.6
320830 2008 FC_{44}	17.5	X	167.50648	243.00543	330.05721	2.09882	0.1336927	0.26216250	2.4178109	21	11 11.6	21.3
320831 2008 FN_{49}	17.0	X	128.51714	267.14436	156.42298	2.34606	0.0791438	0.22436661	2.6822375	21	3 16.9	20.8
320832 2008 FR_{52}	17.0	X	320.45087	189.19713	114.47916	2.63692	0.1384888	0.23344526	2.6122376	21	5 21.9	20.0
320833 2008 FO_{57}	16.9	X	311.40180	157.89681	63.94152	3.72038	0.1587228	0.21467429	2.7623754	21	1 20.3	20.7
320834 2008 FM_{58}	16.3	X	43.61304	79.11037	41.36808	17.33658	0.1258640	0.21624468	2.7489853	21	2 12.2	19.8
320835 2008 FJ_{60}	16.2	X	281.10065	124.57167	165.63371	12.23615	0.1266228	0.22315435	2.6919427	21	3 13.8	20.1
320836 2008 FE_{61}	17.2	X	333.32003	103.83759	161.00070	11.61390	0.1689040	0.22984809	2.6394217	21	4 16.6	20.3
320837 2008 FF_{62}	17.6	X	35.26104	137.09863	78.87213	1.27974	0.1848408	0.23610477	2.5925842	21	6 8.6	19.9
320838 2008 FZ_{62}	16.8	X	105.21357	12.30565	17.77607	8.39312	0.2191582	0.21790492	2.7350044	21	1 28.5	20.5
320839 2008 FM_{66}	16.7	X	298.36876	24.50241	201.90739	9.56152	0.1148519	0.21258067	2.7804827	21	1 14.2	20.9
320840 2008 FQ_{68}	16.2	X	90.52992	122.78942	177.83262	5.08704	0.1322083	0.18334876	3.0686738	21	12 4.2	20.9
320841 2008 FU_{68}	16.5	X	150.84522	275.46654	194.47770	11.02050	0.1485848	0.23769253	2.5810259	21	6 15.6	20.7
320842 2008 FA_{72}	17.4	X	4.43611	188.87407	80.75247	2.56538	0.1161195	0.24013116	2.5635219	21	6 23.2	20.1
320843 2008 FY_{76}	16.0	X	284.46700	7.04409	352.89290	6.66799	0.2138286	0.24572067	2.5244974	21	6 1.4	19.5
320844 2008 FT_{78}	16.8	X	214.50860	88.96375	212.87341	0.70252	0.0485387	0.21456004	2.7633559	21	1 20.9	20.8
320845 2008 FF_{80}	17.6	X	29.60891	338.89638	281.15817	0.77833	0.1106475	0.24059904	2.5601974	21	7 25.7	20.1
320846 2008 FE_{85}	17.5	X	353.82657	123.41198	34.73206	3.55763	0.0730949	0.21741763	2.7390894	21	1 7.7	20.9
320847 2008 FJ_{95}	16.6	X	104.47070	314.44728	88.54685	5.49437	0.0681156	0.21007438	2.8025540	21	1 20.9	20.3
320848 2008 FU_{95}	15.7	X	262.63334	273.07685	3.74010	17.24464	0.0976001	0.21783261	2.7356096	21	2 15.1	20.0
320849 2008 FO_{100}	16.6	X	340.22023	350.42963	168.75555	9.85896	0.0913583	0.21070325	2.7969748	21	—	—
320850 2008 FP_{101}	16.3	X	349.86033	153.41956	71.07052	12.99368	0.1343640	0.22328682	2.6908779	21	3 29.7	19.6
320851 2008 FG_{104}	16.2	X	17.86582	61.16999	190.32152	13.98633	0.1504806	0.23252818	2.6191014	21	6 23.2	19.2
320852 2008 FJ_{104}	16.8	X	34.14146	60.32412	109.87806	2.90707	0.0963837	0.22228517	2.6989555	21	3 26.5	19.9
320853 2008 FW_{104}	15.7	X	96.73697	285.42921	49.94659	16.43515	0.1223213	0.18914311	3.0056774	21	—	—
320854 2008 FR_{108}	16.1	X	186.47374	329.93168	17.46072	25.84318	0.1175167	0.21799617	2.7342411	21	3 2.5	20.7
320855 2008 FQ_{111}	17.0	X	171.67381	163.21251	135.29507	6.59994	0.2289921	0.27073593	2.3664942	21	—	—
320856 2008 FX_{114}	17.5	X	14.41005	351.86024	153.14363	3.99797	0.1366601	0.21828310	2.7318445	21	1 14.7	20.6
320857 2008 FW_{115}	17.0	X	173.88739	320.09893	96.88371	3.04014	0.0856652	0.23231187	2.6207270	21	4 30.1	20.8
320858 2008 FE_{116}	16.9	X	146.51708	25.11244	37.36906	7.24548	0.0953799	0.22851093	2.6497083	21	4 8.2	20.6
320859 2008 FA_{117}	17.3	X	14.41215	159.35245	172.90333	1.47383	0.0374068	0.25079896	2.4903032	21	10 6.4	20.2
320860 2008 FZ_{122}	16.4	X	197.05038	15.59562	19.27443	15.73563	0.2145996	0.23258271	2.6186921	21	4 23.1	21.0
320861 2008 FR_{125}	17.1	X	305.78140	152.34936	125.31211	4.31073	0.1506332	0.22571013	2.6715830	21	3 25.5	20.7
320862 2008 FF_{126}	17.0	X	30.93492	98.97540	173.35103	12.89773	0.2633107	0.23784376	2.5799317	21	9 8.0	19.5
320863 2008 FQ_{126}	16.1	X	354.94707	104.22784	156.07582	10.66054	0.1062601	0.23042950	2.6349800	21	5 25.8	19.3
320864 2008 FA_{130}	16.2	X	45.50874	174.01810	28.36870	12.51768	0.1316374	0.23245894	2.6196215	21	5 29.1	19.2
320865 2008 FZ_{136}	17.0	X	236.04509	99.52705	165.09330	7.59384	0.1563691	0.20441092	2.8540833	21	—	—
320866 2008 FC_{137}	16.6	X	22.86185	26.80343	115.23147	4.44333	0.1307779	0.21508988	2.7588160	21	1 27.6	19.4
320867 2008 FW_{137}	16.5	X	43.58212	74.53996	122.04137	13.64987	0.2036332	0.23197076	2.6232956	21	6 2.5	19.3
320868 2008 GL_{1}	15.9	X	323.20946	265.40483	10.68107	12.56326	0.1515166	0.22719568	2.6599247	21	4 13.1	19.2
320869 2008 GO_{2}	17.2	X	14.02843	95.88913	162.67943	4.26028	0.1316288	0.23753946	2.5821345	21	6 25.6	19.8
320870 2008 GC_{4}	16.2	X	26.78465	255.03024	345.49081	10.94428	0.2663804	0.23328866	2.6134065	21	7 14.1	18.5
320871 2008 GD_{4}	15.9	X	351.53690	350.96458	249.04926	8.22676	0.1598093	0.22720230	2.6598730	21	4 9.1	18.8
320872 2008 GP_{4}	17.1	X	100.76837	253.87504	206.09978	4.52086	0.2389825	0.23324050	2.6137662	21	4 20.6	20.6
320873 2008 GM_{10}	16.9	X	100.20955	99.01328	38.14327	4.32817	0.0256595	0.22879328	2.6475279	21	5 7.3	20.2
320874 2008 GA_{13}	16.7	X	185.62801	278.25707	56.17161	5.64050	0.1118866	0.21293395	2.7774065	21	2 3.4	21.1
320875 2008 GC_{13}	17.3	X	233.60432	88.47028	97.21075	4.29323	0.1418249	0.26939767	2.3743250	21	12 20.4	20.3
320876 2008 GO_{14}	16.1	X	256.65695	197.40188	66.16582	13.44838	0.1267230	0.21066366	2.7973253	21	1 17.7	20.6
320877 2008 GG_{18}	16.9	X	113.40447	258.69571	137.59444	6.92560	0.0660733	0.21925377	2.7237757	21	1 20.8	20.5
320878 2008 GH_{18}	17.9	X	288.11401	85.61908	135.08657	3.29598	0.1051199	0.29003165	2.2603331	21	—	—
320879 2008 GQ_{21}	17.3	X	94.42894	321.81258	204.40622	7.06723	0.1508264	0.23745613	2.5827386	21	6 26.9	20.9
320880 Cabu	16.4	X	5.88996	329.59332	235.06858	12.64388	0.1046509	0.22455712	2.6807202	21	3 18.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320881 2008 GY_{23}	16.7	X	248.05793	189.89718	80.51264	5.02976	0.0601491	0.21374604	2.7703672	21	1 20.3	20.7
320882 2008 GS_{24}	16.8	X	253.87534	120.49353	135.86084	4.17614	0.0459804	0.21279434	2.7786211	21	1 9.9	20.7
320883 2008 GK_{27}	17.2	X	56.64274	180.22158	294.56329	2.04735	0.0576750	0.22277351	2.6950098	21	2 10.7	20.5
320884 2008 GH_{32}	16.8	X	84.15568	294.66598	106.21475	7.99353	0.1173518	0.28060867	2.3106562	21	—	—
320885 2008 GK_{40}	16.0	X	275.34463	313.09031	37.22960	6.30548	0.3455737	0.24242955	2.5472937	21	4 25.3	20.3
320886 2008 GM_{41}	16.4	X	68.78046	339.04019	176.60492	9.14994	0.1254743	0.22876716	2.6477293	21	5 5.7	19.7
320887 2008 GT_{46}	16.1	X	242.50386	144.47346	182.67338	12.21257	0.0604100	0.21951500	2.7216143	21	3 23.5	20.0
320888 2008 GW_{48}	17.7	X	105.92618	135.97936	35.38736	3.45861	0.1399252	0.24438694	2.5336739	21	7 17.9	21.2
320889 2008 GL_{50}	17.5	X	56.19874	317.51331	169.39667	3.33879	0.1487225	0.22390565	2.6859176	21	3 6.6	20.5
320890 2008 GW_{50}	17.3	X	337.94998	134.20888	119.78798	2.17800	0.0571047	0.22955645	2.6416568	21	4 21.5	20.5
320891 2008 GU_{55}	16.6	X	156.22464	343.78813	35.91548	7.21562	0.0776058	0.21857982	2.7293717	21	2 25.7	20.6
320892 2008 GP_{58}	13.7	X	240.39260	275.40718	87.71367	2.03560	0.0705194	0.08350928	5.1837760	21	5 13.9	20.8
320893 2008 GP_{59}	16.8	X	237.90207	138.81753	96.64753	3.21540	0.0113026	0.20185157	2.8781580	21	—	—
320894 2008 GL_{62}	16.6	X	119.04150	284.37230	198.17559	22.93457	0.3018577	0.23817721	2.5775232	21	6 13.4	21.3
320895 2008 GU_{62}	17.5	X	342.84916	244.18232	353.12114	4.08568	0.2046155	0.22458724	2.6804806	21	3 17.1	20.0
320896 2008 GJ_{66}	16.5	X	154.74703	202.62664	176.86136	6.98812	0.0694568	0.21441241	2.7646242	21	2 18.9	20.5
320897 2008 GO_{66}	16.6	X	202.09215	196.39934	169.90174	6.32381	0.0385525	0.22144750	2.7057574	21	3 27.9	20.3
320898 2008 GY_{68}	16.5	X	354.77285	151.10500	63.10201	8.14153	0.1206306	0.22215147	2.7000383	21	3 22.3	19.7
320899 2008 GO_{70}	16.7	X	17.68805	77.29710	91.88018	9.73045	0.1566657	0.21875361	2.7279259	21	2 26.6	19.7
320900 2008 GJ_{71}	16.9	X	102.97561	52.33957	59.23636	12.54571	0.1576919	0.23159807	2.6261091	21	4 29.5	20.4
320901 2008 GW_{74}	16.8	X	112.17282	340.54779	111.33210	5.88662	0.1441469	0.22611634	2.6683825	21	4 13.9	20.6
320902 2008 GF_{75}	16.4	X	71.04871	24.48150	57.23232	12.56438	0.0271355	0.21234909	2.7825039	21	1 21.9	20.3
320903 2008 GQ_{76}	16.0	X	222.41679	343.95703	56.13685	13.40462	0.0904639	0.23436198	2.6054212	21	5 29.3	19.8
320904 2008 GF_{81}	16.2	X	346.39180	179.66775	66.45080	9.34196	0.1627794	0.22423055	2.6833224	21	4 15.8	19.2
320905 2008 GJ_{81}	16.5	X	13.50951	12.73643	200.57779	11.58102	0.1274841	0.22466725	2.6798442	21	4 18.9	19.2
320906 2008 GX_{82}	16.2	X	285.88374	207.28228	51.77051	9.61736	0.0432669	0.21847734	2.7302251	21	2 24.2	20.1
320907 2008 GA_{83}	16.8	X	76.07378	299.86482	171.18709	7.93971	0.2577972	0.22598074	2.6694499	21	4 6.5	19.8
320908 2008 GG_{83}	16.1	X	197.17158	166.88202	145.69526	5.31717	0.0502232	0.21042382	2.7994505	21	1 15.4	20.3
320909 2008 GW_{85}	16.7	X	250.56840	275.48220	15.99699	6.15084	0.0607650	0.21941456	2.7224448	21	2 18.4	20.6
320910 2008 GM_{86}	16.9	X	255.04067	232.96583	32.64090	1.35774	0.1394051	0.21271907	2.7792765	21	1 16.2	21.1
320911 2008 GT_{88}	17.2	X	18.93724	147.87091	126.76719	2.49451	0.1541081	0.23839443	2.5759572	21	8 1.7	19.7
320912 2008 GR_{92}	16.5	X	65.81629	246.60741	184.44125	7.11153	0.0285240	0.20989334	2.8041653	21	—	—
320913 2008 GK_{94}	16.8	X	154.19840	320.62346	99.84828	4.16796	0.0984882	0.22815270	2.6524812	21	4 15.1	20.8
320914 2008 GZ_{95}	16.1	X	49.00478	162.75297	156.41576	6.90857	0.1632590	0.17853803	3.1235531	21	11 14.7	20.4
320915 2008 GN_{98}	16.7	X	219.95664	205.98817	154.58517	8.00594	0.0276468	0.22294248	2.6936479	21	4 12.9	20.5
320916 2008 GS_{98}	16.2	X	328.24154	89.30499	184.21501	8.26403	0.1401926	0.22472239	2.6794058	21	4 23.4	19.4
320917 2008 GZ_{99}	15.7	X	124.21794	264.13950	38.02284	11.15647	0.0891670	0.19144074	2.9815801	21	—	—
320918 2008 GO_{101}	17.0	X	64.52131	338.07270	187.47250	7.78838	0.0994075	0.22877428	2.6476744	21	5 8.3	20.2
320919 2008 GT_{102}	16.5	X	123.63956	137.94974	116.20112	6.41728	0.1431337	0.25766874	2.4458410	21	11 22.6	20.3
320920 2008 GA_{103}	15.6	X	188.77439	250.26761	52.13482	18.05897	0.1642236	0.20144074	2.8820699	21	1 1.9	20.5
320921 2008 GC_{104}	16.2	X	170.87257	209.49929	79.54630	7.57078	0.1087591	0.19858611	2.9096236	21	—	—
320922 2008 GA_{105}	16.6	X	275.84669	130.08866	130.93774	5.32305	0.0689296	0.21601099	2.7509677	21	2 7.2	20.4
320923 2008 GO_{105}	16.0	X	33.99383	284.93993	208.26648	12.12016	0.0290429	0.21782171	2.7357009	21	1 30.3	19.8
320924 2008 GM_{107}	16.0	X	90.96873	177.79117	151.26219	11.39175	0.0950202	0.19259029	2.9697037	21	—	—
320925 2008 GR_{111}	15.9	X	352.72109	186.96159	37.49189	14.61346	0.1151111	0.22524708	2.6752432	21	4 2.5	19.0
320926 2008 GG_{113}	17.1	X	232.96531	325.95299	78.08041	4.01905	0.0296873	0.24024483	2.5627133	21	6 23.1	20.6
320927 2008 GK_{113}	17.0	X	32.83438	121.32800	79.21375	3.97868	0.0859728	0.23059542	2.6337159	21	5 3.9	20.0
320928 2008 GX_{113}	16.5	X	40.78298	47.74603	208.11143	13.45142	0.1241230	0.24082050	2.5586276	21	8 4.9	19.7
320929 2008 GT_{120}	17.0	X	107.07410	353.16544	173.22914	9.06141	0.1090844	0.24000708	2.5644054	21	7 6.8	20.7
320930 2008 GZ_{120}	16.5	X	65.70316	328.27990	168.88883	16.62214	0.0979754	0.22656494	2.6648591	21	4 1.6	19.7
320931 2008 GP_{121}	16.2	X	337.18535	171.90872	43.88057	9.81218	0.0507117	0.22067257	2.7120882	21	3 6.5	19.9
320932 2008 GQ_{122}	16.9	X	50.89666	350.93444	194.40245	11.65333	0.1256955	0.23063205	2.6334371	21	5 17.7	20.0
320933 2008 GJ_{124}	15.6	X	282.45611	320.17622	34.80550	12.46931	0.2104444	0.24055173	2.5605331	21	5 22.8	19.3
320934 2008 GS_{128}	16.3	X	125.30497	29.28163	134.63238	15.29657	0.1805675	0.24178788	2.5517984	21	8 1.2	20.3
320935 2008 GD_{130}	16.1	X	82.78421	210.69993	330.58000	13.06807	0.1231211	0.23730018	2.5838701	21	6 30.4	19.7
320936 2008 GW_{130}	16.4	X	332.96108	315.85095	176.17057	11.95398	0.0644753	0.19960426	2.8997208	21	—	—
320937 2008 GH_{133}	16.7	X	302.47474	134.55794	127.61129	5.89124	0.0659363	0.22020093	2.7159594	21	3 14.7	20.4
320938 2008 GT_{134}	16.4	X	322.87302	118.81454	86.91576	5.82958	0.0166867	0.21364331	2.7712552	21	2 4.8	20.2
320939 2008 GF_{141}	16.9	X	191.62100	285.72428	42.85615	5.90985	0.0596027	0.21200880	2.7854805	21	1 31.4	21.0
320940 2008 GW_{142}	16.2	X	35.40025	327.08361	301.92009	11.99843	0.2472373	0.24164681	2.5527915	21	9 3.7	19.0
320941 2008 GC_{143}	16.7	X	47.80780	236.98371	4.03131	4.28443	0.0853150	0.23863913	2.5741960	21	7 26.2	19.7
320942 Jeanette–Jesse	17.0	X	50.31324	354.95524	200.33175	1.64680	0.0706755	0.23107272	2.6300879	21	5 22.5	20.2
320943 2008 GM_{145}	15.9	X	309.81148	187.99635	82.90024	14.53884	0.0726951	0.22160832	2.7044482	21	4 9.8	19.7
320944 2008 HW	17.3	X	125.82381	279.46525	198.49698	2.93695	0.1654139	0.23633187	2.5909231	21	6 1.9	21.2
320945 2008 HG_{1}	16.8	X	22.31243	6.02336	190.36358	13.79046	0.1851302	0.22470429	2.6795497	21	4 12.3	19.2
320946 2008 HL_{1}	16.8	X	220.74746	127.93238	130.91350	8.85780	0.1728784	0.19976289	2.8981854	21	—	—
320947 2008 HN_{1}	16.8	X	49.15869	334.36137	169.99344	8.65493	0.2599133	0.22386543	2.6862393	21	4 2.9	19.0
320948 2008 HK_{2}	17.0	X	69.29002	59.07697	191.31111	3.04195	0.1161581	0.24456099	2.5324716	21	9 12.3	20.4
320949 2008 HR_{4}	16.1	X	23.32760	49.82118	159.22731	14.27846	0.0886443	0.22787729	2.6546179	21	5 3.7	19.4
320950 2008 HZ_{4}	13.4	X	269.05639	303.13662	44.95884	5.27301	0.0874163	0.08536394	5.1084178	21	5 24.6	20.3
320951 2008 HG_{8}	16.5	X	265.23490	131.40815	170.35479	12.37727	0.1540651	0.21813389	2.7330901	21	3 7.8	20.5
320952 2008 HC_{11}	16.7	X	84.65895	152.72795	59.26083	0.90963	0.0942522	0.23932509	2.5692748	21	8 8.5	20.0
320953 2008 HB_{12}	16.1	X	314.53810	256.72503	31.56162	17.83081	0.2273491	0.22544397	2.6736854	21	4 9.8	19.4
320954 2008 HT_{14}	16.9	X	125.56032	358.38050	242.92602	4.05869	0.0508134	0.25679961	2.4513565	21	11 1.9	20.4
320955 2008 HY_{15}	16.1	X	96.53315	291.18831	112.92297	7.19606	0.0167524	0.20540899	2.8448306	21	1 5.6	20.1
320956 2008 HS_{17}	16.4	X	295.05200	158.34763	112.53319	9.22229	0.1499415	0.21867093	2.7286135	21	3 5.9	20.3
320957 2008 HX_{17}	16.4	X	65.62085	351.38847	164.20303	10.84343	0.1302538	0.22713262	2.6604169	21	5 2.5	19.7
320958 2008 HZ_{18}	17.1	X	240.91292	65.95859	212.50762	3.59859	0.0742552	0.21283799	2.7782412	21	1 20.0	21.2
320959 2008 HP_{21}	16.9	X	337.87047	16.86976	139.26537	4.02231	0.1178305	0.21003173	2.8029334	21	—	—
320960 2008 HN_{24}	16.5	X	294.51881	88.65527	130.66550	8.90956	0.1499529	0.21054396	2.7983854	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
320961 2008 HL_{28}	17.0	X	96.50804	241.27389	261.25952	3.35190	0.1146676	0.23328163	2.6134590	21	5 23.2	20.5
320962 2008 HC_{34}	16.3	X	350.72168	82.77467	177.11759	9.14232	0.1122451	0.22715352	2.6602538	21	5 16.8	19.4
320963 2008 HH_{34}	16.6	X	300.51913	82.94246	163.00158	14.14096	0.0867430	0.21507170	2.7589715	21	2 14.1	20.6
320964 2008 HT_{34}	16.4	X	78.65433	70.97084	106.30980	13.70096	0.2163801	0.23284310	2.6167394	21	7 2.2	19.8
320965 2008 HU_{34}	15.8	X	96.23221	186.21796	110.76137	16.55156	0.0811487	0.18027840	3.1034179	21	12 2.9	20.6
320966 2008 HH_{36}	16.7	X	300.05532	115.40549	145.67082	7.85964	0.0851675	0.21677428	2.7445062	21	3 6.9	20.5
320967 2008 HS_{41}	16.6	X	358.16815	2.02762	215.30460	7.92854	0.1256806	0.22342020	2.6898068	21	3 25.0	19.7
320968 2008 HW_{42}	17.2	X	342.39005	30.00576	173.41141	6.67084	0.0319432	0.22105649	2.7089472	21	2 21.5	20.8
320969 2008 HW_{45}	15.6	X	35.84509	256.88799	81.63499	11.41199	0.0617046	0.17786249	3.1314572	21	11 8.3	19.9
320970 2008 HC_{46}	16.5	X	221.51739	224.65365	136.36499	3.52459	0.0907674	0.22143868	2.7058293	21	4 11.4	20.5
320971 2008 HJ_{47}	15.9	X	336.56914	133.30064	102.20414	18.22147	0.1179098	0.22008983	2.7168734	21	3 27.6	19.6
320972 2008 HE_{61}	15.9	X	54.28899	248.24757	117.93364	11.26948	0.1247206	0.18726561	3.0257336	21	—	—
320973 2008 JH_{3}	16.1	X	287.22992	208.08655	49.58337	5.19573	0.0686660	0.21430219	2.7655721	21	2 18.9	20.0
320974 2008 JF_{4}	15.9	X	273.91576	169.09113	90.92797	13.94864	0.0343700	0.21125687	2.7920862	21	2 11.9	20.0
320975 2008 JH_{4}	16.4	X	317.20396	75.25070	128.48477	8.46392	0.1683521	0.21067173	2.7972538	21	1 3.5	20.3
320976 2008 JR_{6}	16.7	X	322.74036	118.62798	114.05030	5.75531	0.1142959	0.21684858	2.7438793	21	2 24.6	20.3
320977 2008 JQ_{8}	16.3	X	254.53841	171.92758	91.84163	16.66787	0.2084949	0.20599289	2.8394522	21	1 10.3	21.1
320978 2008 JU_{8}	16.5	X	56.04630	94.79428	77.38045	8.60925	0.1474461	0.23038247	2.6353386	21	5 10.9	19.4
320979 2008 JC_{9}	16.3	X	328.33147	96.00337	93.24145	5.45870	0.0117193	0.20902514	2.8119248	21	1 22.8	20.1
320980 2008 JU_{10}	16.7	X	332.86133	77.20660	127.87845	8.67325	0.0844873	0.21488253	2.7605905	21	2 6.5	20.1
320981 2008 JK_{12}	15.6	X	37.06988	238.17392	121.58367	12.25272	0.1085258	0.18092508	3.0960185	21	12 11.0	19.9
320982 2008 JP_{13}	16.2	X	94.63346	173.48921	182.05757	10.45950	0.1283309	0.19312811	2.9641879	21	—	—
320983 2008 JC_{20}	16.4	X	20.57196	118.68318	102.51671	13.70742	0.2173176	0.22818809	2.6522069	21	5 21.9	18.8
320984 2008 JW_{21}	16.8	X	21.70840	128.24567	83.48766	8.18441	0.2347464	0.22741797	2.6581911	21	5 8.4	18.9
320985 2008 JH_{23}	17.0	X	8.84274	356.41312	119.57016	3.16538	0.0191109	0.20278864	2.8692846	21	—	—
320986 2008 JC_{24}	16.6	X	15.87144	280.96037	0.73365	7.50196	0.1761255	0.23998598	2.5645557	21	8 11.9	19.1
320987 2008 JH_{24}	15.9	X	17.45061	358.39039	275.66292	12.99350	0.1389755	0.23664410	2.5886436	21	7 24.1	18.7
320988 2008 JT_{27}	17.2	X	31.32384	68.45445	154.62847	4.07628	0.1478433	0.23042994	2.6349767	21	6 8.1	19.9
320989 2008 JA_{31}	15.5	X	113.07225	151.05908	187.41886	29.06918	0.2646928	0.17665273	3.1457375	21	—	—
320990 2008 JZ_{39}	17.0	X	41.71307	32.78465	73.98004	4.73516	0.0545018	0.20877379	2.8141813	21	1 13.9	20.6
320991 2008 KE_{4}	16.4	X	212.15427	146.30494	161.13078	9.14906	0.1322890	0.20473212	2.8510975	21	1 26.0	21.0
320992 2008 KF_{4}	16.7	X	151.82957	235.56782	146.74251	10.08570	0.1335867	0.20841372	2.8174216	21	2 28.4	20.9
320993 2008 KN_{4}	16.4	X	138.14917	152.80756	163.38554	9.39818	0.0676745	0.19203113	2.9754658	21	—	—
320994 2008 KO_{5}	15.7	X	149.06948	98.54927	141.77096	14.07707	0.1538951	0.18101203	3.0950268	21	11 21.9	21.0
320995 2008 KN_{6}	16.9	X	306.35612	80.10624	159.59889	8.08707	0.1696107	0.21444960	2.7643045	21	2 2.1	20.9
320996 2008 KX_{6}	16.7	X	8.08196	207.50247	127.30181	11.92675	0.1441336	0.24259696	2.5461216	21	10 16.1	19.6
320997 2008 KX_{11}	16.3	X	346.54371	67.65903	190.01176	14.65258	0.2471077	0.22351041	2.6890830	21	4 19.1	18.7
320998 2008 KK_{12}	16.2	X	158.92704	245.31062	61.46120	4.58234	0.1277983	0.19495459	2.9456450	21	—	—
320999 2008 KA_{13}	17.5	X	65.95942	198.89749	209.35731	4.32220	0.0690937	0.27511425	2.3413194	21	—	—
321000 2008 KH_{13}	16.4	X	59.87856	147.35170	165.49454	1.27586	0.2097839	0.17473488	3.1687135	21	11 23.9	20.9
321001 2008 KQ_{13}	16.1	X	114.30299	149.87592	155.94186	13.04596	0.1491087	0.18523792	3.0477742	21	—	—
321002 2008 KU_{14}	16.9	X	340.63896	72.98174	161.22196	10.67502	0.1041579	0.22043463	2.7140396	21	3 25.9	20.2
321003 2008 KG_{17}	16.0	X	3.84400	209.50443	176.37859	8.66016	0.0182040	0.18083770	3.0970156	21	11 19.5	20.4
321004 2008 KR_{23}	16.0	X	9.78795	189.19919	169.93721	5.36853	0.1345453	0.17431444	3.1738067	21	11 2.9	19.8
321005 2008 KQ_{24}	15.6	X	293.64164	315.76944	117.23621	18.59538	0.1934733	0.17643890	3.1482786	21	10 2.1	19.9
321006 2008 KO_{26}	16.2	X	278.28636	343.22635	174.24394	10.53320	0.0297927	0.19133238	2.9827057	21	—	—
321007 2008 KR_{26}	17.2	X	314.91855	61.67385	150.19322	8.92788	0.1437382	0.21083506	2.7958090	21	1 13.6	21.2
321008 2008 KE_{27}	16.8	X	357.86795	334.46984	160.72221	8.17115	0.0619303	0.20711584	2.8291795	21	—	—
321009 2008 KX_{29}	15.6	X	116.19010	131.71333	145.86706	15.33583	0.1530669	0.18015666	3.1048157	21	12 4.9	20.8
321010 2008 KF_{33}	16.3	X	112.52240	112.01997	191.59966	9.96446	0.1185876	0.18423538	3.0588207	21	12 26.7	21.2
321011 2008 KX_{33}	16.1	X	352.43374	144.95559	103.28987	15.55510	0.2269399	0.22480112	2.6787801	21	4 28.1	18.9
321012 2008 KC_{40}	16.4	X	326.25400	106.88438	184.00494	7.44053	0.2078125	0.22483522	2.6785093	21	5 4.2	19.4
321013 2008 KZ_{40}	16.6	X	214.17100	177.49026	184.39882	14.77784	0.0540504	0.22210737	2.7003957	21	4 5.1	20.5
321014 2008 LB_{1}	17.0	X	52.39387	352.75071	171.56106	10.74711	0.0273959	0.22217259	2.6998672	21	4 11.2	20.5
321015 2008 LZ_{2}	15.9	X	30.48555	270.12056	95.47581	11.81811	0.1084871	0.18067623	3.0988605	21	12 8.7	20.0
321016 2008 LQ_{3}	16.0	X	342.67751	43.45715	154.67125	14.45393	0.1279631	0.21424189	2.7660910	21	2 4.2	19.6
321017 2008 LX_{11}	16.1	X	83.30303	162.42798	206.99001	11.26463	0.0207838	0.19297223	2.9657839	21	—	—
321018 2008 LX_{12}	16.8	X	217.00618	148.24442	163.49683	9.36675	0.1444841	0.20982187	2.8048021	21	2 3.6	21.5
321019 2008 LC_{15}	15.8	X	165.57739	56.66585	246.68802	7.56370	0.0566784	0.18750490	3.0231588	21	—	—
321020 2008 LY_{15}	16.4	X	229.22481	181.04619	139.91414	4.15459	0.0459556	0.21641239	2.7475650	21	3 2.6	20.3
321021 2008 LD_{16}	16.6	X	147.42046	300.39398	179.42630	7.77278	0.1020003	0.23572658	2.5953564	21	6 21.7	20.6
321022 2008 LA_{18}	16.5	X	306.35753	263.05877	6.22743	5.56550	0.2715981	0.21374025	2.7704172	21	2 27.3	20.3
321023 2008 MA	15.6	X	135.77804	150.69652	115.47279	15.81149	0.1916238	0.18226764	3.0807964	21	12 9.7	20.9
321024 Gijon	15.9	X	326.01159	10.82926	252.41063	7.08282	0.2109211	0.21507760	2.7589210	21	3 21.6	19.4
321025 2008 ME_{1}	15.7	X	357.97131	290.63143	330.03189	27.52693	0.4874666	0.22287154	2.6942195	21	3 18.1	17.8
321026 2008 MD_{2}	16.5	X	265.45744	144.24941	168.59870	9.60043	0.0892470	0.21820383	2.7325061	21	3 30.4	20.4
321027 2008 NR_{1}	15.1	X	24.21723	210.48236	214.37308	15.85945	0.0735806	0.18119777	3.0929114	21	—	—
321028 2008 OV_{5}	15.3	X	155.18251	73.75537	159.81245	18.03831	0.1891357	0.17214514	3.2004143	21	11 18.6	21.0
321029 2008 OK_{17}	17.2	X	37.25589	91.44453	171.26617	5.71902	0.1629413	0.22894862	2.6463302	21	8 17.9	20.1
321030 2008 OC_{22}	15.7	X	163.48131	267.83969	341.92724	4.24824	0.1115335	0.17226189	3.1989681	21	12 10.2	20.8
321031 2008 OC_{23}	16.8	X	325.04777	202.54581	155.90222	3.64026	0.1232316	0.22709052	2.6607457	21	8 20.1	19.7
321032 2008 PL_{4}	15.8	X	158.03994	288.42099	358.13154	9.63458	0.0892858	0.18101876	3.0949502	21	—	—
321033 2008 PL_{7}	16.0	X	222.45677	107.13618	189.33362	5.96018	0.2032982	0.19736497	2.9216128	21	1 22.3	21.1
321034 2008 PH_{8}	16.0	X	172.51970	41.47644	252.71139	4.90326	0.1693815	0.18495912	3.0508361	21	—	—
321035 2008 PZ_{16}	15.6	X	171.17073	298.83082	322.57543	15.80980	0.2181662	0.18118132	3.0930986	21	12 30.7	21.1
321036 2008 PT_{21}	16.0	X	26.26465	40.89353	238.82387	8.55377	0.1953499	0.22600045	2.6692946	21	8 23.9	19.0
321037 2008 QK_{3}	16.0	X	179.65023	57.94632	183.48865	8.93262	0.0576645	0.17447805	3.1718223	21	12 19.4	20.9
321038 2008 QY_{4}	16.3	X	160.20492	92.23232	209.95485	8.32970	0.1213754	0.18394559	3.0620326	21	—	—
321039 2008 QB_{10}	16.1	X	155.12080	100.73722	176.37007	16.60801	0.2276328	0.17560980	3.1581801	21	—	—
321040 2008 QW_{21}	15.6	X	122.57696	121.73591	187.07451	20.46248	0.1300082	0.17367068	3.1816450	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321041 2008 QB_{24}	17.0	X	220.28214	224.31603	305.12279	1.77574	0.1063774	0.24119228	2.5559977	21	11 12.1	20.4
321042 2008 QY_{27}	16.1	X	313.25875	245.24354	113.16629	8.20124	0.1591469	0.22247892	2.6973883	21	7 25.1	18.9
321043 2008 QF_{28}	15.6	X	195.98769	186.58226	129.93934	12.77182	0.1260508	0.19022778	2.9942410	21	1 24.9	20.5
321044 2008 QB_{29}	16.7	X	168.41767	117.10060	247.05203	4.62665	0.2131565	0.26734865	2.3864411	21	2 18.3	20.5
321045 2008 QY_{32}	17.4	X	126.77056	165.33624	203.21633	3.66684	0.1947531	0.26063877	2.4272250	21	1 11.9	20.5
321046 Klushantsev	15.9	X	138.88738	129.33818	178.54418	11.22231	0.1107429	0.17821271	3.1273532	21	—	—
321047 2008 QR_{33}	16.5	X	160.08343	47.89405	341.37331	3.05703	0.1733151	0.19557287	2.9394336	21	3 19.7	21.2
321048 2008 RS_{16}	16.0	X	180.25215	325.41939	291.32870	3.51164	0.2091414	0.17520014	3.1631011	21	12 29.9	21.4
321049 2008 RN_{23}	17.5	X	302.09824	50.32778	4.18801	20.41429	0.1009323	0.37944750	1.8895929	21	10 22.5	19.0
321050 2008 RY_{27}	15.6	X	214.18810	103.05461	151.36988	11.67276	0.0989597	0.18581756	3.0414327	21	—	—
321051 2008 RM_{63}	16.3	X	105.56253	305.00697	139.93905	3.44235	0.0992932	0.19317607	2.9636972	21	3 23.6	20.4
321052 2008 RK_{64}	17.0	X	90.44062	164.09909	156.07434	8.44719	0.1741797	0.24475995	2.5310991	21	—	—
321053 2008 RO_{73}	17.6	X	244.25951	2.30292	283.43362	1.33341	0.2027464	0.27361118	2.3498862	21	1 18.3	21.3
321054 2008 RP_{96}	16.6	X	231.64507	31.75983	338.20763	1.36326	0.0833007	0.20303765	2.8669382	21	5 3.5	20.9
321055 2008 RH_{111}	16.1	X	197.44919	175.90772	110.83563	2.24338	0.0882731	0.18149248	3.0895623	21	—	—
321056 2008 RX_{116}	16.6	X	16.52465	313.83332	46.48329	2.56480	0.1276767	0.22669473	2.6638418	21	11 23.3	19.5
321057 2008 RL_{121}	16.8	X	290.13769	19.64734	175.73832	7.75133	0.0466344	0.25879040	2.4387687	21	—	—
321058 2008 RC_{133}	17.8	X	20.17250	219.72602	88.96105	2.03563	0.1537988	0.30534848	2.1840984	21	10 6.6	19.5
321059 2008 RE_{134}	16.5	X	325.97675	300.57745	124.33255	8.17955	0.1789411	0.23416659	2.6068703	21	11 29.4	19.0
321060 2008 RH_{138}	16.6	X	215.07458	58.55115	343.09773	2.93474	0.0988145	0.20915492	2.8107615	21	5 24.1	21.0
321061 2008 RS_{139}	16.8	X	146.77846	221.96203	99.84500	2.31958	0.1993618	0.25873022	2.4391468	21	—	—
321062 2008 SH_{19}	15.7	X	140.26611	133.28825	175.12322	11.39346	0.1331914	0.17838780	3.1253065	21	—	—
321063 2008 SK_{25}	16.8	X	283.07858	132.02165	159.82952	5.29008	0.0810333	0.20165044	2.8800714	21	3 27.4	20.7
321064 2008 SW_{40}	16.1	X	229.62466	332.99317	42.18054	2.58665	0.0700914	0.20732977	2.8272331	21	5 8.9	20.1
321065 2008 SS_{49}	16.1	X	142.68012	104.30937	185.58204	17.03488	0.1464438	0.17212757	3.2006322	21	—	—
321066 2008 SF_{56}	15.8	X	349.06709	289.06559	24.98713	6.57814	0.0699440	0.21598519	2.7511867	21	8 2.9	19.2
321067 2008 SJ_{56}	13.5	X	290.99544	101.74138	22.09324	17.90564	0.0585878	0.08270460	5.2173457	21	11 18.6	20.4
321068 2008 SZ_{56}	16.0	X	171.00204	67.55013	34.11133	6.44085	0.0303154	0.20709164	2.8293999	21	6 21.9	20.1
321069 2008 SB_{57}	17.4	X	272.77228	242.11151	186.60523	5.61708	0.0908635	0.29863900	2.2166904	21	9 15.8	19.6
321070 2008 SM_{58}	13.8	X	134.29469	237.32394	45.82690	8.45367	0.0085905	0.08302381	5.2039641	21	12 1.9	20.8
321071 2008 SN_{61}	18.3	X	20.88855	165.79352	213.65865	2.11879	0.1481402	0.31837472	2.1241100	21	—	—
321072 2008 SX_{63}	17.6	X	241.29924	256.99574	191.44026	22.36407	0.0795554	0.37494016	1.9047066	21	9 3.7	19.7
321073 2008 SR_{65}	17.4	X	186.08588	165.36275	207.32689	5.81228	0.1720009	0.26972975	2.3723758	21	3 14.7	21.2
321074 2008 SP_{67}	13.5	X	45.34407	159.56042	209.43102	11.69064	0.0476595	0.08193936	5.2497788	21	12 4.3	20.4
321075 2008 SJ_{72}	17.5	X	4.51464	84.44667	250.57232	3.44005	0.1675946	0.30236571	2.1984387	21	10 16.9	19.1
321076 2008 SB_{75}	16.5	X	122.92867	257.42797	119.13044	2.91648	0.1590241	0.18458526	3.0549542	21	1 28.1	20.8
321077 2008 SJ_{84}	16.0	X	14.74821	358.32593	348.11776	12.10269	0.3026546	0.23001471	2.6381469	21	11 26.9	19.0
321078 2008 SY_{91}	13.2	X	2.71839	25.08101	14.53137	24.48211	0.0630999	0.08122295	5.2806031	21	11 9.7	20.1
321079 2008 SW_{97}	16.5	X	171.11304	249.89706	271.57921	1.96966	0.0992337	0.21916388	2.7245204	21	9 7.8	20.6
321080 2008 SZ_{100}	15.9	X	165.51528	262.23963	62.78392	7.42966	0.1312715	0.18003391	3.1062269	21	1 9.3	20.8
321081 2008 SN_{105}	16.3	X	294.30044	194.65717	198.55203	4.82824	0.1667725	0.21857699	2.7293952	21	8 8.5	19.7
321082 2008 SM_{121}	13.8	X	347.71963	206.33003	222.63854	3.61687	0.0600796	0.08174895	5.2579274	21	12 1.4	20.5
321083 2008 SB_{133}	16.5	X	351.35277	265.63990	9.28945	1.85658	0.0267606	0.20542369	2.8446950	21	6 11.6	20.3
321084 2008 SE_{147}	15.8	X	282.04866	80.37206	243.62133	4.93473	0.0691819	0.20853390	2.8163390	21	5 5.8	19.8
321085 2008 SV_{149}	16.7	X	1.49667	201.37896	326.11743	6.26059	0.0787438	0.26474412	2.4020673	21	1 19.2	19.3
321086 2008 SX_{165}	13.6	X	42.80032	169.11945	185.90164	8.75195	0.1416218	0.08287603	5.2101485	21	11 27.9	20.2
321087 2008 SL_{174}	16.1	X	277.46851	85.93311	306.16042	8.11391	0.0918691	0.21785913	2.7353876	21	7 27.1	19.5
321088 2008 SX_{195}	17.2	X	137.85530	252.67349	196.32078	4.24999	0.0955449	0.27221649	2.3579057	21	4 28.2	20.2
321089 2008 SF_{198}	16.5	X	327.79715	202.15619	88.14768	3.39970	0.0579422	0.20385696	2.8592515	21	5 27.3	20.0
321090 2008 SW_{208}	16.0	X	92.12112	310.95877	108.65100	2.84340	0.1786384	0.17588443	3.1548917	21	2 17.1	20.1
321091 2008 SX_{224}	14.0	X	61.70911	350.25606	3.72243	3.45033	0.0402890	0.08331582	5.1917975	21	12 4.7	20.8
321092 2008 SB_{256}	16.3	X	19.52726	53.43282	61.52416	1.94628	0.0730922	0.17831428	3.1261655	21	—	—
321093 2008 SH_{261}	16.1	X	78.88624	295.83919	112.17732	2.65613	0.1531221	0.17444788	3.1721879	21	1 11.6	20.1
321094 2008 SK_{266}	16.8	X	312.84563	128.30613	221.83818	5.21501	0.0147663	0.21466030	2.7624954	21	7 28.8	20.5
321095 2008 SA_{277}	13.9	X	353.85368	234.69788	160.57155	7.78073	0.0791876	0.08124309	5.2797307	21	11 4.2	20.5
321096 2008 ST_{279}	17.9	X	98.10592	332.45334	186.00225	2.33158	0.0596170	0.28299744	2.2976350	21	6 6.2	20.5
321097 2008 SP_{284}	16.7	X	318.59750	37.57603	321.64630	4.29113	0.1328368	0.21794400	2.7346775	21	8 8.3	19.7
321098 2008 SZ_{303}	15.6	X	350.89009	92.44976	345.76566	14.76477	0.1004867	0.23588500	2.5941943	21	—	—
321099 2008 SP_{305}	15.8	X	82.14119	280.70790	116.95402	5.86296	0.1490395	0.17393973	3.1783632	21	1 3.1	19.9
321100 2008 TV_{46}	16.0	X	307.77546	336.95714	58.73638	8.50674	0.1536543	0.22090676	2.7101711	21	9 13.2	19.1
321101 2008 TB_{49}	16.1	X	5.49669	15.38601	323.96651	3.93571	0.2807699	0.22967647	2.6407363	21	10 26.1	18.3
321102 2008 TA_{53}	16.2	X	95.10103	315.04528	56.43891	2.78221	0.0686102	0.17403340	3.1772226	21	—	—
321103 2008 TL_{57}	14.7	X	341.93278	24.36809	45.40999	1.39381	0.0657382	0.08196835	5.2485409	21	11 24.8	21.2
321104 2008 TT_{59}	16.6	X	65.56499	310.96725	142.28651	1.47234	0.1241716	0.18095393	3.0956893	21	2 12.0	20.5
321105 2008 TP_{63}	17.6	X	12.81252	352.99182	249.99619	0.81385	0.1863626	0.28465901	2.2886854	21	5 26.7	18.7
321106 2008 TD_{66}	16.7	X	338.16252	198.71733	164.25663	2.12611	0.1042917	0.22286061	2.6943076	21	9 20.6	19.7
321107 2008 TL_{72}	15.7	X	10.23368	328.81176	143.37936	6.17818	0.1097728	0.17601318	3.1533530	21	—	—
321108 2008 TZ_{74}	17.3	X	21.46266	123.96897	210.66869	1.51126	0.0358062	0.22460771	2.6803177	21	10 15.4	20.6
321109 2008 TN_{87}	16.6	X	8.42138	251.91320	120.56840	3.49774	0.1692662	0.23207467	2.6225124	21	12 4.6	19.4
321110 2008 TF_{94}	17.4	X	94.22216	209.79817	164.85572	5.93784	0.1077402	0.25160594	2.4849756	21	—	—
321111 2008 TK_{108}	16.3	X	298.64707	12.02746	88.60373	3.58102	0.1008905	0.23508863	2.6000496	21	12 1.1	19.3
321112 2008 TV_{124}	13.1	X	331.15842	217.63288	213.93664	14.73059	0.0477162	0.08139408	5.2731990	21	11 14.8	19.8
321113 2008 TQ_{131}	13.8	X	82.16883	346.69648	345.34259	6.70140	0.0113754	0.08238219	5.2309490	21	11 28.7	20.8
321114 2008 TG_{133}	16.8	X	318.40098	74.14198	322.13894	4.37313	0.0505968	0.22486757	2.6782524	21	10 4.9	20.1
321115 2008 TB_{142}	13.7	X	355.43589	21.16146	29.63593	7.55045	0.0979490	0.08239245	5.2305148	21	11 20.5	20.2
321116 2008 TS_{157}	17.9	X	258.76137	266.06516	173.60481	21.85648	0.1267468	0.37526576	1.9036047	21	9 12.6	19.6
321117 2008 TA_{165}	16.3	X	178.27373	293.62708	94.37083	2.32720	0.0553932	0.19280375	2.9675114	21	3 31.7	20.6
321118 2008 TW_{173}	16.4	X	276.72675	303.14965	195.47810	9.77947	0.0696304	0.23054783	2.6340783	21	12 20.0	19.9
321119 2008 TQ_{176}	16.1	X	53.71832	210.39091	109.07730	14.09241	0.1848517	0.23582965	2.5946002	21	12 4.1	19.8
321120 2008 UL_{11}	13.8	X	10.87968	320.45237	79.52244	2.39126	0.0621356	0.08488789	5.1274985	21	11 28.8	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321121 2008 UY_{11}	16.9	X	39.29658	25.01315	287.32404	1.59603	0.1126616	0.22959228	2.6413819	21	10 21.8	20.3
321122 2008 UB_{14}	15.5	X	131.33009	136.71945	213.96993	10.32055	0.0586905	0.17807185	3.1290022	21	—	—
321123 2008 UU_{50}	16.5	X	112.90814	304.39372	103.80778	0.07008	0.0967792	0.18239766	3.0793322	21	2 15.5	20.6
321124 2008 UA_{52}	16.7	X	262.08879	322.57106	60.76048	2.86428	0.0858880	0.20595454	2.8398046	21	6 25.7	20.5
321125 2008 UE_{57}	16.6	X	307.34055	183.89692	83.90933	3.05573	0.0553345	0.19504014	2.9447836	21	4 1.7	20.6
321126 2008 UT_{60}	16.9	X	141.38558	347.77781	270.95697	4.16847	0.0694650	0.23350726	2.6117752	21	12 9.2	20.7
321127 2008 UJ_{78}	16.0	X	212.36443	342.33117	172.03310	6.77649	0.0368529	0.22572262	2.6714845	21	10 22.9	19.8
321128 2008 UN_{79}	16.1	X	213.36685	4.13376	344.53422	5.26636	0.0890058	0.19344528	2.9609469	21	3 19.2	20.6
321129 2008 UC_{82}	16.6	X	190.99894	274.49537	334.94687	3.52196	0.1552381	0.24178699	2.5518047	21	—	—
321130 2008 UT_{86}	17.6	X	157.17080	73.49791	42.62463	2.62845	0.1151227	0.28184045	2.3039188	21	6 28.0	20.8
321131 2008 UO_{87}	16.0	X	24.59001	222.43330	173.27834	4.45394	0.2384388	0.23725310	2.5842119	21	—	—
321132 2008 UL_{125}	17.0	X	259.14405	129.80372	239.43383	19.43363	0.0954807	0.35941036	1.9591859	21	5 25.9	19.2
321133 2008 UP_{138}	16.8	X	307.85086	211.06508	181.39293	1.82208	0.0795554	0.21934314	2.7230357	21	9 12.2	20.2
321134 2008 UZ_{138}	17.0	X	359.43682	11.86681	358.26047	0.70882	0.1139165	0.22697936	2.6616144	21	11 7.3	19.9
321135 2008 UV_{141}	16.7	X	171.41798	218.51218	62.30686	3.50744	0.1134222	0.24483216	2.5306014	21	—	—
321136 2008 UW_{147}	16.3	X	5.96366	246.83339	29.69265	2.27378	0.0175108	0.20514236	2.8472951	21	7 4.9	20.2
321137 2008 UY_{147}	16.7	X	175.85783	70.87097	26.69659	2.20802	0.0300637	0.20239458	2.8730077	21	6 22.9	20.8
321138 2008 UY_{152}	13.5	X	17.52728	194.43720	205.26655	8.34750	0.0408286	0.08190215	5.2513688	21	12 4.9	20.3
321139 2008 UQ_{157}	16.7	X	12.31921	127.43622	195.87335	1.49165	0.0851337	0.21807798	2.7335572	21	9 20.7	20.0
321140 2008 UT_{163}	16.4	X	28.09277	51.60487	278.36152	2.99550	0.1075161	0.22702688	2.6612430	21	10 27.4	19.6
321141 2008 UD_{176}	16.7	X	199.63337	123.21115	339.28679	1.81549	0.0436399	0.21146765	2.7902305	21	7 28.6	20.6
321142 2008 UV_{186}	16.7	X	26.24502	207.27662	157.56844	1.92425	0.1702414	0.23021910	2.6365852	21	12 21.1	20.0
321143 2008 UN_{197}	16.5	X	208.36463	188.22575	154.91848	3.00379	0.1384550	0.19052099	2.9911682	21	3 8.5	21.2
321144 2008 UE_{223}	16.7	X	18.94810	358.87748	16.47342	4.20329	0.2264207	0.23294704	2.6159610	21	—	—
321145 2008 UB_{226}	16.5	X	45.11521	16.50048	345.28695	9.18797	0.2649170	0.23811025	2.5780064	21	—	—
321146 2008 UZ_{255}	16.7	X	31.69425	8.18910	199.79443	1.33383	0.0136454	0.19712553	2.9239783	21	5 10.1	20.6
321147 2008 UW_{259}	16.5	X	211.84837	157.66568	223.12960	1.25355	0.1228283	0.19578657	2.9372942	21	4 25.2	21.2
321148 2008 UZ_{286}	15.8	X	313.47648	325.53746	135.32611	3.81937	0.1291322	0.15679537	3.4060203	21	12 4.3	20.0
321149 2008 UL_{294}	16.2	X	246.75311	348.22102	336.98673	2.55041	0.0460216	0.19244470	2.9712013	21	3 29.6	20.4
321150 2008 UW_{301}	14.1	X	307.92328	170.31526	280.74896	8.30993	0.0556759	0.08175802	5.2575387	21	11 5.1	20.9
321151 2008 UD_{303}	17.5	X	202.54749	351.92183	328.02637	1.64001	0.2123900	0.26083506	2.4260071	21	1 27.6	21.4
321152 2008 UX_{307}	16.0	X	288.18678	211.91135	134.08130	12.25385	0.2209459	0.20988725	2.8042195	21	5 24.0	20.2
321153 2008 UJ_{314}	16.2	X	334.31059	156.26352	319.07127	3.75122	0.0867100	0.23865930	2.5740510	21	—	—
321154 2008 UO_{315}	17.5	X	155.83551	212.87388	246.88098	7.19613	0.1221035	0.27837476	2.3230014	21	6 4.5	20.9
321155 2008 US_{330}	16.6	X	240.61276	149.82808	214.08072	2.00550	0.0491806	0.19938145	2.9018807	21	5 10.1	20.7
321156 2008 UX_{331}	17.0	X	138.97358	241.59691	164.94307	2.43321	0.1127490	0.25525590	2.4612300	21	3 7.3	20.1
321157 2008 UA_{341}	16.3	X	148.85654	287.24367	216.94146	4.78456	0.0945252	0.20855693	2.8161317	21	7 23.2	20.7
321158 2008 UJ_{345}	16.7	X	342.16218	57.87915	284.18073	8.07983	0.0582227	0.21439425	2.7647803	21	8 24.9	20.2
321159 2008 UK_{346}	16.4	X	9.53797	284.58875	93.22184	5.29831	0.2784207	0.23165330	2.6256917	21	12 30.7	19.2
321160 2008 UO_{353}	17.9	X	136.81288	224.23682	272.35311	3.92765	0.0331504	0.27817731	2.3241005	21	6 24.8	20.9
321161 2008 UV_{353}	16.5	X	264.36555	324.41604	73.59867	4.06462	0.0813072	0.20832501	2.8182214	21	7 19.4	20.3
321162 2008 UE_{354}	17.3	X	237.88459	229.30924	70.05515	3.33282	0.1890665	0.26470175	2.4023236	21	2 1.1	21.2
321163 2008 VH_{4}	16.4	X	69.82384	143.12468	260.71251	2.82545	0.0844040	0.24631351	2.5204450	21	—	—
321164 2008 VU_{19}	16.5	X	199.58510	269.99132	148.42316	2.51399	0.0716730	0.19955087	2.9002380	21	5 31.3	20.8
321165 2008 VW_{19}	16.8	X	359.46529	130.07522	187.99199	3.76316	0.0991370	0.21457052	2.7632659	21	8 22.5	20.1
321166 2008 VG_{29}	16.1	X	92.70940	317.23885	11.43546	5.15105	0.1935272	0.24046261	2.5611657	21	—	—
321167 2008 VQ_{37}	15.6	X	126.34922	218.02111	118.77425	5.21701	0.1535323	0.17035536	3.2227913	21	—	—
321168 2008 VQ_{41}	15.6	X	156.68668	8.70599	319.13189	9.63799	0.1206453	0.17792079	3.1307730	21	1 4.0	20.5
321169 2008 VC_{47}	16.9	X	253.28254	192.37686	223.11322	3.01969	0.0911207	0.20965492	2.8062908	21	7 25.5	20.8
321170 2008 VL_{68}	16.6	X	312.77534	313.26705	99.64351	3.90469	0.0867876	0.21641451	2.7475470	21	10 19.1	19.9
321171 2008 VN_{72}	16.3	X	138.81629	136.17726	187.37771	2.58756	0.1572379	0.24560357	2.5252997	21	—	—
321172 2008 VD_{74}	16.8	X	237.84464	223.28111	180.38587	1.99169	0.0710489	0.20397853	2.8581153	21	6 24.5	21.0
321173 2008 VU_{75}	16.1	X	254.69477	292.60892	149.55488	13.82230	0.1467040	0.21474232	2.7617919	21	8 24.9	19.8
321174 2008 WT_{7}	17.6	X	35.15331	291.95050	247.26606	0.90686	0.0841227	0.26868815	2.3785030	21	3 30.7	19.9
321175 2008 WF_{8}	16.0	X	58.85562	257.60614	152.55889	1.66191	0.1412501	0.17013169	3.2256152	21	—	—
321176 2008 WB_{17}	16.9	X	213.76227	203.78143	199.32243	1.38097	0.0726217	0.20269331	2.8701842	21	5 27.2	21.0
321177 2008 WY_{29}	16.6	X	342.07166	68.85402	8.23591	2.26035	0.0444116	0.23162832	2.6258804	21	—	—
321178 2008 WR_{34}	16.0	X	229.29238	265.39898	43.03400	9.80148	0.1262550	0.18765667	3.0215286	21	2 19.8	20.9
321179 2008 WE_{45}	16.7	X	197.03950	157.44761	285.74892	0.86141	0.0539015	0.20224610	2.8744137	21	6 29.3	20.8
321180 2008 WD_{49}	15.9	X	309.39087	64.07527	289.72430	5.18250	0.0674237	0.21052705	2.7985352	21	7 23.9	19.5
321181 2008 WW_{68}	17.1	X	117.39289	278.15790	127.01812	1.77294	0.2072839	0.25686877	2.4509165	21	2 20.7	20.2
321182 2008 WX_{70}	16.2	X	80.66970	326.15005	73.14299	6.32326	0.1543786	0.24509905	2.5287640	21	—	—
321183 2008 WL_{112}	17.7	X	35.08909	138.03939	2.86122	1.19960	0.1371547	0.25420726	2.4679939	21	2 6.5	19.8
321184 2008 WM_{114}	16.6	X	271.94720	154.61480	279.29412	2.41398	0.0465751	0.21645240	2.7472264	21	9 19.2	20.3
321185 2008 WC_{130}	15.9	X	66.39280	211.97322	84.17475	9.17857	0.0386777	0.21626257	2.7488338	21	10 28.4	19.7
321186 2008 WL_{133}	15.6	X	85.77078	192.45783	227.40798	4.62145	0.0590427	0.17355980	3.1829999	21	1 22.2	20.0
321187 2008 WM_{137}	15.1	X	37.56326	165.68283	280.83016	15.57867	0.0824377	0.16931218	3.2360154	21	—	—
321188 2008 WE_{138}	17.1	X	1.11884	243.49604	178.45481	2.25002	0.1442474	0.23273143	2.6175764	21	—	—
321189 2008 WE_{139}	17.1	X	40.61818	17.74996	113.70005	3.69979	0.1415312	0.25324547	2.4742387	21	2 3.9	19.5
321190 2008 XF_{16}	16.6	X	13.66322	200.64849	111.83903	2.80012	0.0749117	0.21231614	2.7827918	21	9 7.8	19.9
321191 2008 XG_{18}	16.8	X	19.37042	169.34436	203.58368	3.27325	0.0938989	0.22715970	2.6602055	21	12 9.9	20.1
321192 2008 XY_{48}	16.4	X	283.88852	294.83837	300.92135	16.29772	0.1678248	0.24119032	2.5560115	21	1 2.2	20.4
321193 2008 XC_{52}	16.8	X	35.31565	84.11218	261.28799	3.49200	0.0923200	0.22025486	2.7155161	21	11 24.4	20.2
321194 2008 XH_{52}	16.5	X	296.87136	87.54304	98.93657	5.86344	0.0667915	0.24002102	2.5643061	21	—	—
321195 2008 YJ_{5}	17.4	X	70.59946	284.17133	262.25056	0.43974	0.1275599	0.27011493	2.3701199	21	6 17.8	19.9
321196 2008 YD_{8}	17.1	X	230.12417	314.48452	115.38880	24.15569	0.1187535	0.35849898	1.9625050	21	7 16.7	19.1
321197 2008 YK_{8}	16.3	X	77.29990	220.98363	95.12390	6.24479	0.0437334	0.22169494	2.7037437	21	12 4.5	19.9
321198 2008 YD_{11}	17.1	X	281.60360	302.74069	82.86750	24.02980	0.0777735	0.36529599	1.9380848	21	8 5.4	19.4
321199 2008 YT_{18}	16.5	X	27.79620	336.85772	121.59854	5.34217	0.1131361	0.23606137	2.5929020	21	—	—
321200 2008 YR_{19}	16.7	X	45.44879	132.83442	287.90688	3.94172	0.2247041	0.23854453	2.5748766	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321201 2008 YK_{20}	17.3	X	341.33449	343.11864	114.37430	2.14098	0.0345925	0.22799233	2.6537248	21	—	—
321202 2008 YH_{23}	15.4	X	309.37381	22.62900	281.74288	10.34074	0.0811720	0.19211877	2.9745609	21	5 14.9	19.6
321203 2008 YA_{25}	16.2	X	88.07581	237.99176	145.19421	4.87917	0.2255794	0.24345934	2.5401055	21	—	—
321204 2008 YS_{35}	16.5	X	18.87843	32.25601	320.08763	4.06851	0.0527754	0.21392527	2.7688196	21	11 2.6	20.0
321205 2008 YE_{37}	17.3	X	12.30643	193.35395	26.49183	1.27165	0.1352757	0.25789102	2.4444354	21	4 20.5	19.5
321206 2008 YK_{40}	17.2	X	355.87984	131.92658	142.80521	2.60168	0.2602986	0.26888815	2.3773235	21	6 3.9	18.4
321207 2008 YZ_{40}	15.6	X	152.64093	291.48293	131.31848	11.41436	0.1066985	0.18070039	3.0985843	21	4 23.7	20.5
321208 2008 YG_{41}	17.2	X	31.53967	310.21910	221.97087	1.93144	0.1304413	0.25300381	2.4758140	21	3 17.2	19.4
321209 2008 YS_{48}	16.1	X	282.60955	98.11023	112.15913	14.44811	0.1208842	0.23654711	2.5893512	21	—	—
321210 2008 YK_{50}	16.7	X	299.65256	91.90658	81.93157	4.54458	0.0816267	0.23286684	2.6165615	21	—	—
321211 2008 YC_{56}	16.8	X	61.41792	74.51366	317.90053	3.61829	0.1692934	0.23798571	2.5789057	21	—	—
321212 2008 YV_{57}	15.8	X	108.26132	75.02884	328.40721	4.09206	0.1936789	0.17161938	3.2069474	21	2 19.1	20.4
321213 2008 YM_{88}	16.8	X	200.53677	200.09783	304.09726	1.05190	0.1096262	0.20855922	2.8161111	21	9 15.9	21.0
321214 2008 YA_{95}	15.7	X	9.59015	154.62904	287.34293	3.55845	0.0788286	0.15442089	3.4408468	21	—	—
321215 2008 YD_{97}	16.8	X	275.62597	254.29268	323.92425	4.48808	0.0774965	0.23760039	2.5816931	21	—	—
321216 2008 YE_{109}	15.5	X	189.82404	253.82858	118.42613	10.76506	0.0701878	0.17605923	3.1528031	21	3 30.8	20.4
321217 2008 YK_{114}	16.5	X	304.09414	4.51599	61.85171	1.41742	0.0616122	0.21630839	2.7484456	21	10 24.3	19.7
321218 2008 YV_{123}	16.9	X	342.28045	243.41153	214.27405	1.91933	0.0809607	0.23044318	2.6348758	21	—	—
321219 2008 YQ_{136}	15.5	X	152.37405	90.37983	286.77999	9.39963	0.0555199	0.17422335	3.1749129	21	2 16.1	20.2
321220 2008 YW_{136}	16.5	X	334.77324	297.38072	79.91260	3.75616	0.0763449	0.21433438	2.7652951	21	10 5.9	19.8
321221 2008 YM_{142}	16.7	X	55.89059	132.25499	43.90010	0.14901	0.1180789	0.18104976	3.0945969	21	5 14.4	20.7
321222 2008 YF_{147}	15.8	X	28.21195	136.38707	73.99731	4.64096	0.0672370	0.18675006	3.0312998	21	5 12.6	19.7
321223 2008 YF_{153}	16.2	X	219.92636	290.99019	116.50950	3.31763	0.0921855	0.19544726	2.9406928	21	6 7.7	20.6
321224 2008 YW_{155}	17.3	X	357.75516	276.21450	156.69084	2.90627	0.0886676	0.22693356	2.6619725	21	—	—
321225 2008 YN_{167}	15.4	X	118.96682	226.35002	276.56334	9.54523	0.0258011	0.19164554	2.9794555	21	6 10.9	19.6
321226 2009 AT_9	17.1	X	84.49616	342.81801	345.45736	1.84124	0.0912581	0.22602528	2.6690991	21	—	—
321227 2009 AY_{16}	16.1	X	277.41758	143.59801	77.67694	8.88012	0.0912802	0.23942186	2.5685825	21	—	—
321228 2009 AW_{25}	16.6	X	310.58558	244.14977	155.42614	1.76364	0.1588942	0.21268321	2.7795890	21	9 17.2	19.6
321229 2009 AE_{41}	17.4	X	179.06981	137.42931	111.03654	3.73400	0.1354668	0.29933780	2.2132391	21	—	—
321230 2009 AM_{47}	17.0	X	267.28607	67.83366	349.07095	1.45573	0.0585465	0.20203859	2.8763816	21	8 20.1	20.9
321231 2009 BL_6	17.9	X	221.52093	293.99850	129.28502	24.03607	0.1104292	0.35498560	1.9754326	21	6 28.8	20.7
321232 2009 BJ_{11}	16.3	X	64.78301	4.11686	158.20773	14.97152	0.2004749	0.25756482	2.4464989	21	5 20.5	19.2
321233 2009 BR_{24}	16.3	X	283.51187	259.81397	174.71737	3.71711	0.1895214	0.21111653	2.7933235	21	9 15.1	19.6
321234 2009 BE_{31}	16.5	X	218.26413	351.39562	87.08233	3.19815	0.0840648	0.19648263	2.9303530	21	7 15.9	20.7
321235 2009 BL_{44}	16.4	X	129.71314	195.30468	308.94637	1.04028	0.0763477	0.18684744	3.0302464	21	7 1.7	20.9
321236 2009 BL_{45}	17.1	X	261.86563	65.10140	175.45950	4.30623	0.1299453	0.23475019	2.6025480	21	—	—
321237 2009 BP_{63}	16.6	X	46.50004	5.99400	151.85624	7.24357	0.0832575	0.25380353	2.4706105	21	3 23.9	19.3
321238 2009 BY_{81}	16.9	X	329.06123	302.02742	81.74909	24.08881	0.1226632	0.37585470	1.9016156	21	11 17.2	18.4
321239 2009 BL_{86}	15.9	X	246.04262	240.70939	130.16958	7.30944	0.1236124	0.18843770	3.0131738	21	5 20.1	20.5
321240 2009 BK_{87}	16.3	X	114.43241	207.50986	1.99515	1.64604	0.0343309	0.19892161	2.9063511	21	9 1.5	20.4
321241 2009 BX_{91}	17.1	X	349.08121	208.18332	128.42942	6.88865	0.0901279	0.28027576	2.3124855	21	9 10.7	19.3
321242 2009 BR_{93}	17.9	X	60.88473	231.95780	197.35972	0.87101	0.2009400	0.24064216	2.5598916	21	—	—
321243 2009 BO_{103}	15.8	X	93.70503	319.24458	154.58558	6.88021	0.1041315	0.17387580	3.1791422	21	4 17.8	20.2
321244 2009 BQ_{106}	16.3	X	228.83842	234.76622	269.96740	2.54051	0.0650619	0.21130065	2.7917006	21	10 22.5	20.4
321245 2009 BV_{107}	16.4	X	186.24750	30.34436	25.61477	2.76740	0.0613153	0.17938153	3.1137535	21	5 13.7	21.1
321246 2009 BT_{113}	16.6	X	149.88576	275.91633	106.02757	5.62954	0.2033435	0.25404525	2.4690430	21	2 28.1	20.3
321247 2009 BF_{139}	16.8	X	52.49781	95.42892	146.84836	2.31899	0.0745452	0.19185344	2.9773027	21	7 30.2	20.7
321248 2009 BU_{149}	16.2	X	193.50888	150.24917	263.65354	0.71343	0.0942307	0.18171219	3.0870713	21	5 19.0	20.9
321249 2009 BC_{150}	16.8	X	285.86825	291.39810	162.41049	4.31065	0.0680576	0.21024651	2.8010241	21	11 2.4	20.3
321250 2009 BE_{167}	17.0	X	102.85949	143.45136	165.22172	8.63617	0.1996688	0.28407997	2.2917943	21	—	—
321251 2009 BP_{177}	15.9	X	142.40058	205.06072	235.23547	3.30259	0.0563185	0.17419571	3.1752487	21	4 24.9	20.6
321252 2009 CV_7	15.8	X	257.74596	54.26937	239.35746	3.89769	0.0840779	0.17377041	3.1804275	21	3 1.1	20.6
321253 2009 CV_{57}	15.3	X	351.34848	256.41350	18.54810	17.48383	0.1287077	0.17903280	3.1177956	21	6 4.1	19.4
321254 2009 CE_{64}	17.5	X	200.37245	182.80085	113.82443	6.19984	0.1808505	0.31007361	2.1618531	21	—	—
321255 2009 DL_{12}	15.3	X	300.91619	204.74221	106.56942	10.81295	0.0394256	0.18260192	3.0770353	21	5 23.6	19.7
321256 2009 DB_{13}	17.9	X	24.86039	125.65249	317.02239	4.38147	0.0602873	0.30690516	2.1767067	21	—	—
321257 2009 DV_{13}	17.3	X	315.47050	81.45901	311.83855	7.08480	0.1176226	0.28130825	2.3068237	21	9 27.5	19.6
321258 2009 DD_{14}	16.0	X	23.00962	83.17743	347.23498	14.51455	0.0378499	0.22242691	2.6978088	21	—	—
321259 2009 DK_{15}	17.3	X	263.29427	119.70772	353.43384	4.06513	0.0337364	0.29022151	2.2593473	21	11 12.3	19.8
321260 2009 DS_{35}	17.5	X	53.12935	116.17573	148.99335	1.99189	0.1554839	0.26609833	2.3939107	21	9 20.0	20.3
321261 2009 DL_{42}	15.5	X	72.18752	137.75265	3.67363	4.61483	0.1362441	0.17127004	3.2113067	21	4 25.5	19.8
321262 2009 DU_{44}	16.8	X	167.95063	199.88632	341.65700	7.02847	0.0455743	0.27887185	2.3202401	21	10 5.7	19.8
321263 2009 DD_{54}	16.8	X	92.67468	304.44566	112.66010	2.62790	0.1906420	0.24318847	2.5419913	21	2 2.1	19.6
321264 2009 DX_{83}	16.4	X	252.65879	151.02553	81.81898	5.50245	0.0212288	0.23527690	2.5986623	21	—	—
321265 2009 DA_{85}	18.5	X	275.35119	111.20565	120.29785	1.09102	0.1098486	0.31086690	2.1581737	21	—	—
321266 2009 DK_{87}	16.3	X	86.48173	119.81477	49.32163	4.06389	0.1457489	0.18075534	3.0979564	21	6 21.2	20.7
321267 2009 DL_{106}	15.6	X	62.57536	143.43617	20.79922	5.12185	0.0721844	0.17430565	3.1739134	21	5 2.3	19.9
321268 2009 DL_{122}	17.5	X	101.70941	123.39441	154.74566	5.59379	0.1817159	0.28044350	2.3115633	21	12 6.0	21.1
321269 2009 DY_{132}	17.5	X	331.17138	229.42471	168.12142	7.42387	0.0977913	0.28294636	2.2979116	21	11 11.0	19.8
321270 2009 DA_{133}	18.4	X	232.99413	307.13519	317.81058	2.34162	0.0999671	0.31108033	2.1571865	21	—	—
321271 2009 DK_{135}	16.1	X	239.54517	324.33538	221.20201	7.56189	0.1362536	0.21527855	2.7572039	21	12 17.0	19.9
321272 2009 DQ_{135}	17.3	X	69.61565	76.62429	315.99052	7.59233	0.0512161	0.30173521	2.2015002	21	—	—
321273 2009 DU_{138}	16.8	X	30.94535	294.68839	26.84047	7.52183	0.1526730	0.27405824	2.3473300	21	11 4.8	19.3
321274 2009 DW_{142}	17.6	X	206.44206	263.88842	359.05781	4.22404	0.1252646	0.30225140	2.1989929	21	—	—
321275 2009 EX_1	17.4	X	148.20305	192.21893	124.05237	5.34527	0.1925433	0.30239397	2.1983017	21	—	—
321276 2009 EV_4	17.9	X	243.15380	252.61836	351.78994	6.50503	0.1471067	0.30658310	2.1782308	21	—	—
321277 2009 EQ_9	17.2	X	73.13430	164.00035	229.82594	1.63623	0.2063919	0.23747542	2.5825988	21	—	—
321278 2009 EW_{15}	16.0	X	172.18501	291.80448	146.64656	4.46595	0.1185382	0.18180852	3.0859808	21	5 29.1	20.9
321279 2009 EX_{17}	16.6	X	112.79455	191.46036	329.07492	4.87910	0.1009977	0.18367392	3.0650511	21	7 6.3	21.1
321280 2009 EB_{21}	15.5	X	70.57368	103.89000	61.17666	7.34076	0.0817195	0.17502473	3.1652141	21	5 16.9	19.6

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Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321281 2009 EN_{21}	18.3	X	286.12902	327.47573	190.43332	1.59596	0.1299486	0.30011293	2.2094266	21	—	—
321282 2009 EU_{22}	18.4	X	69.49076	215.86045	201.00134	3.41247	0.0566692	0.30910674	2.1663589	21	—	—
321283 2009 EX_{25}	17.7	X	177.88626	226.26051	57.04442	4.35229	0.1068255	0.29777249	2.2209886	21	—	—
321284 2009 FL_{5}	17.7	X	202.64515	260.40090	10.15947	3.80340	0.1686136	0.30095010	2.2053273	21	—	—
321285 2009 FL_{9}	15.0	X	128.69920	200.05972	168.03166	9.80391	0.0575688	0.15245432	3.4703735	21	1 16.4	20.1
321286 2009 FL_{14}	16.5	X	216.87764	91.30082	161.62305	9.02723	0.0277882	0.22412283	2.6841822	21	—	—
321287 2009 FK_{17}	18.3	X	242.14730	116.42718	140.30996	2.30804	0.1503280	0.30814106	2.1708826	21	—	—
321288 2009 FE_{21}	18.1	X	282.20660	54.06553	115.12916	4.79728	0.0411139	0.30118707	2.2041704	21	—	—
321289 2009 FW_{21}	17.7	X	162.84752	22.16447	154.38418	2.85413	0.1446798	0.27487753	2.3426634	21	9 24.1	21.1
321290 2009 FE_{22}	16.0	X	137.01744	24.81038	95.20733	2.54846	0.1255940	0.17828238	3.1265384	21	6 13.8	20.9
321291 2009 FX_{22}	17.0	X	192.50165	170.71693	52.40951	8.20017	0.0718899	0.28870483	2.2672532	21	—	—
321292 2009 FX_{37}	17.5	X	104.17387	150.46118	148.49391	5.22183	0.1685857	0.28454982	2.2892708	21	—	—
321293 2009 FZ_{39}	17.3	X	198.17879	141.47152	132.25602	6.17786	0.1888918	0.29928900	2.2134797	21	—	—
321294 2009 FX_{41}	18.2	X	309.04516	37.03062	90.18332	4.03270	0.0971456	0.29795902	2.2200616	21	—	—
321295 2009 FH_{45}	17.7	X	277.94101	94.12267	35.24475	20.61406	0.1186027	0.37018131	1.9209957	21	—	—
321296 2009 FD_{54}	17.3	X	105.48114	222.39748	91.87917	5.10320	0.2217705	0.28629552	2.2799554	21	—	—
321297 2009 FL_{54}	15.6	X	1.94017	157.93146	166.98545	11.69742	0.0547858	0.18921122	3.0049560	21	9 1.5	19.6
321298 2009 FC_{55}	18.3	X	232.15942	42.78009	145.75120	4.41810	0.0936515	0.29231826	2.2485304	21	—	—
321299 2009 FU_{60}	17.7	X	124.41034	155.01849	60.98497	1.34931	0.1546544	0.27354713	2.3502529	21	10 7.6	21.2
321300 2009 FO_{61}	13.3	X	285.48609	110.07446	196.38121	7.87556	0.0640501	0.08463950	5.1375255	21	4 30.3	20.1
321301 2009 FR_{65}	18.2	X	276.18642	78.52742	94.80871	2.54118	0.0897137	0.29709597	2.2243590	21	—	—
321302 2009 FQ_{67}	18.3	X	179.74540	110.64305	152.45191	3.66225	0.1532395	0.29230873	2.2485792	21	—	—
321303 2009 FT_{67}	17.1	X	21.43038	291.86282	58.58368	7.18697	0.1305045	0.27939559	2.3173396	21	11 29.3	19.6
321304 2009 GQ	17.4	X	211.02584	46.37354	77.80508	2.50157	0.1278700	0.26841927	2.3800912	21	9 6.0	20.7
321305 2009 GA_{6}	17.5	X	256.12033	80.48254	189.46885	6.97160	0.1017116	0.30972474	2.1634762	21	1 6.4	20.5
321306 2009 HU_{4}	15.5	X	134.16228	303.14597	152.45110	4.97521	0.1248137	0.17193518	3.2030193	21	5 13.5	20.4
321307 2009 HZ_{7}	17.4	X	237.01548	125.13239	147.15783	5.08027	0.1126136	0.30608129	2.1806110	21	—	—
321308 2009 HZ_{16}	15.8	X	162.77781	307.64433	141.12902	4.60142	0.0818272	0.17593078	3.1543375	21	5 31.0	20.6
321309 2009 HO_{20}	17.6	X	154.10329	209.92422	58.04062	4.02379	0.1965003	0.28602890	2.2813720	21	—	—
321310 2009 HD_{29}	17.5	X	161.64904	83.81902	180.19023	6.60173	0.1844297	0.28894836	2.2659791	21	—	—
321311 2009 HX_{35}	17.7	X	120.97834	121.69076	152.68920	4.68401	0.1340768	0.28025480	2.3126008	21	12 16.8	21.2
321312 2009 HS_{37}	16.7	X	186.45195	194.27426	117.43931	5.00510	0.0860730	0.22715162	2.6602686	21	1 2.0	20.6
321313 2009 HQ_{38}	17.0	X	103.33769	124.06935	134.62802	7.99592	0.0914269	0.27279177	2.3545895	21	11 7.8	20.4
321314 2009 HO_{39}	17.9	X	135.24750	101.38697	175.37957	3.43584	0.2150976	0.28045261	2.3115133	21	—	—
321315 2009 HN_{45}	17.6	X	174.86022	26.88087	252.21386	1.97328	0.1538591	0.29355519	2.2422096	21	—	—
321316 2009 HF_{51}	16.9	X	180.04710	214.38329	151.02137	5.66058	0.0475042	0.23551012	2.5969465	21	2 26.8	20.4
321317 2009 HJ_{52}	17.3	X	216.98457	336.91846	254.47292	5.37845	0.1680682	0.29438893	2.2379741	21	—	—
321318 2009 HM_{53}	16.9	X	317.24398	86.95328	103.60896	3.80118	0.1156904	0.22888029	2.6468569	21	—	—
321319 2009 HZ_{56}	16.8	X	39.91193	334.17369	146.35362	5.50355	0.1020885	0.23231141	2.6207304	21	1 22.6	19.7
321320 2009 HX_{58}	15.6	X	105.10098	290.05029	205.68855	15.45908	0.1953634	0.17553562	3.1590697	21	6 7.7	20.6
321321 2009 HJ_{59}	17.1	X	70.44629	179.11552	97.68577	6.62505	0.2158909	0.26729719	2.3867474	21	11 7.0	20.6
321322 2009 HD_{61}	17.4	X	267.11705	96.96302	7.59008	6.89792	0.0474496	0.28005239	2.3137150	21	11 1.3	20.2
321323 2009 HX_{65}	17.2	X	218.97418	93.13767	134.90183	4.94557	0.1239058	0.29189758	2.2506902	21	—	—
321324 Vytautas	16.0	X	186.09367	0.81758	96.60562	6.60310	0.1079249	0.17817095	3.1278418	21	7 4.3	21.0
321325 2009 HW_{75}	17.7	X	158.94532	90.62403	192.87888	6.30366	0.1664295	0.29138115	2.2533488	21	—	—
321326 2009 HJ_{77}	17.7	X	193.75025	40.86067	204.01669	6.20000	0.1457022	0.28996426	2.2606833	21	—	—
321327 2009 HS_{77}	17.5	X	138.61439	183.77477	73.81674	6.45052	0.1432922	0.28049708	2.3112690	21	12 12.3	20.8
321328 2009 HX_{77}	15.8	X	158.42360	164.25753	92.04773	10.34866	0.0874860	0.20510580	2.8476334	21	12 19.1	20.2
321329 2009 HB_{79}	17.3	X	104.07107	73.19073	196.36719	6.38427	0.0852536	0.27438543	2.3454635	21	11 20.3	20.6
321330 2009 HE_{79}	17.9	X	133.98657	79.95388	207.06202	5.34998	0.1478614	0.28377450	2.2934387	21	—	—
321331 2009 HC_{80}	17.0	X	74.69726	181.23596	53.34462	7.40195	0.1362701	0.26390737	2.4071420	21	9 7.4	20.2
321332 2009 HF_{90}	17.4	X	275.28772	324.72726	199.65728	4.45717	0.1181439	0.29700624	2.2248070	21	—	—
321333 2009 HO_{95}	16.7	X	249.76470	213.17765	65.26031	2.49686	0.0398194	0.23090486	2.6313624	21	1 30.4	20.3
321334 2009 HE_{98}	17.5	X	83.14740	110.00263	200.15053	6.37735	0.1349878	0.28061912	2.3105988	21	12 23.6	20.8
321335 2009 HG_{101}	17.9	X	131.79729	152.52020	82.70321	2.16205	0.1336049	0.27361830	2.3498454	21	11 7.4	21.4
321336 2009 HY_{103}	16.3	X	98.03574	97.70389	88.40408	13.09597	0.0609849	0.17500997	3.1653922	21	7 15.7	20.8
321337 2009 HF_{106}	17.4	X	112.75842	114.77640	142.75651	1.08463	0.1911871	0.27363482	2.3497508	21	11 19.5	21.2
321338 2009 JF_{11}	16.2	X	342.79512	154.66552	47.61727	9.57920	0.1233983	0.23361791	2.6109504	21	2 11.8	19.5
321339 2009 JT_{12}	16.6	X	303.01037	123.66217	140.58892	5.32221	0.2065811	0.23480602	2.6021354	21	2 21.9	20.3
321340 2009 JK_{13}	17.3	X	162.35199	17.07645	237.72712	5.39730	0.0792540	0.28279919	2.2987087	21	—	—
321341 2009 JF_{14}	17.8	X	146.21025	21.20621	224.47891	1.61713	0.1691750	0.27724276	2.3293205	21	12 4.1	21.3
321342 2009 JO_{14}	17.5	X	245.38798	268.44896	237.07222	4.70207	0.0951731	0.27948085	2.3168683	21	11 21.5	20.3
321343 2009 JF_{16}	17.5	X	100.59131	113.09459	193.83598	6.01570	0.1554200	0.28018444	2.3129880	21	—	—
321344 2009 JC_{18}	17.3	X	113.71222	140.30231	131.90144	4.25614	0.2104512	0.27444080	2.3451481	21	12 9.3	21.2
321345 2009 KT_{1}	17.8	X	181.01763	204.23084	65.08655	3.65676	0.1551557	0.29089143	2.2558771	21	—	—
321346 2009 KK_{4}	16.3	X	185.44995	179.55554	136.88813	10.15061	0.1615794	0.21549706	2.7553397	21	1 12.8	20.8
321347 2009 KJ_{12}	16.5	X	80.21993	129.03242	101.71966	2.34826	0.1133510	0.18041795	3.1018173	21	8 27.6	20.8
321348 2009 KC_{13}	16.3	X	70.08012	58.98174	66.80101	15.78798	0.0717655	0.23657183	2.5891708	21	3 26.4	19.8
321349 2009 KX_{14}	17.6	X	233.10984	134.94610	106.31895	3.31102	0.1240507	0.29621007	2.2287918	21	—	—
321350 2009 KC_{20}	16.3	X	78.69002	9.24028	259.55132	1.71786	0.2638921	0.18439218	3.0570864	21	10 29.1	21.1
321351 2009 KE_{29}	16.4	X	148.98178	105.74746	154.85586	1.95688	0.0854159	0.19964917	2.8992859	21	12 13.9	20.7
321352 2009 KV_{35}	16.8	X	210.52388	226.86238	124.32665	15.17605	0.1694861	0.23272224	2.6176452	21	3 20.1	21.3
321353 2009 LR_{4}	15.5	X	24.82958	162.40547	165.86097	17.87958	0.2264154	0.18055730	3.1002212	21	11 3.6	19.5
321354 2009 LU_{4}	13.0	X	307.42326	50.83381	245.28426	3.35169	0.0252558	0.08218903	5.2391417	21	5 18.0	19.8
321355 2009 LJ_{6}	17.1	X	167.93591	15.27246	284.15452	4.61399	0.2011610	0.28494474	2.2871551	21	—	—
321356 2009 MF	16.9	X	166.83404	26.39427	206.03790	8.54465	0.3512769	0.28008273	2.3135479	21	11 30.0	21.3
321357 Mirzakhani	16.8	X	39.36931	118.77115	166.81669	6.95622	0.2166092	0.25750374	2.4468857	21	10 8.6	19.5
321358 2009 MK_{2}	17.6	X	122.43993	54.88115	165.23351	2.35931	0.1424572	0.25997164	2.4313757	21	10 8.9	21.3
321359 2009 MG_{5}	17.6	X	110.97385	130.26981	121.41428	2.16683	0.1562094	0.26399968	2.4065808	21	11 8.1	21.3
321360 2009 MM_{7}	15.7	X	259.99250	175.09227	92.54067	10.31479	0.0488695	0.22518737	2.6757161	21	1 29.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321361 2009 MX_7	16.4	X	329.93052	90.09312	209.23225	10.34782	0.2047075	0.24438431	2.5336921	21	5 21.6	18.9
321362 2009 MA_8	16.4	X	297.71923	169.11523	152.83001	13.66997	0.2924128	0.24063003	2.5599776	21	4 22.3	20.2
321363 2009 MK_8	17.0	X	187.49741	319.78128	251.09198	5.74661	0.1521768	0.27988848	2.3146182	21	11 30.6	20.5
321364 2009 NP	16.8	X	22.26448	84.17740	250.67655	3.61927	0.2108317	0.25777476	2.4451703	21	11 17.2	19.4
321365 2009 OD_1	17.8	X	175.95057	357.84833	278.41550	1.29255	0.2557856	0.28387205	2.2929133	21	—	—
321366 2009 OE_2	16.2	X	273.23500	183.41499	119.13787	13.35969	0.1843192	0.22740587	2.6582854	21	3 17.8	20.4
321367 2009 OF_2	17.3	X	106.29439	193.20145	71.60851	3.05397	0.2029695	0.26495573	2.4007881	21	11 22.2	20.9
321368 2009 OM_2	16.6	X	269.50952	353.74409	286.22977	6.44053	0.2643993	0.22204811	2.7008761	21	2 2.9	21.2
321369 2009 OT_4	14.9	X	15.19600	231.41598	129.84226	28.93210	0.1746579	0.17707038	3.1407891	21	11 27.8	19.3
321370 2009 OA_6	16.3	X	313.06796	328.69223	309.75422	12.37296	0.1541927	0.23116045	2.6294224	21	3 26.1	20.0
321371 2009 OF_6	16.0	X	173.07807	183.05972	155.91578	15.54931	0.1524901	0.20985848	2.8044759	21	1 27.6	20.5
321372 2009 OB_7	16.1	X	129.75987	26.87023	309.78630	7.03622	0.1563049	0.19763207	2.9189799	21	—	—
321373 2009 OK_8	14.7	X	63.26503	44.72846	280.57763	27.02904	0.2490627	0.17907021	3.1173614	21	12 18.9	19.5
321374 2009 OT_8	15.8	X	59.65004	222.96629	138.41111	18.73233	0.1953131	0.18491662	3.0513036	21	—	—
321375 2009 OX_8	16.3	X	340.54692	327.54220	327.82267	14.22900	0.1824301	0.23917819	2.5703267	21	6 8.4	19.1
321376 2009 OZ_9	15.4	X	348.08516	172.49939	193.61251	8.90522	0.1379216	0.16997815	3.2275575	21	10 4.0	19.0
321377 2009 OQ_{15}	12.8	X	51.62228	302.75774	41.06520	13.41786	0.0774381	0.08339349	5.1885732	21	11 16.1	19.5
321378 2009 OU_{16}	16.8	X	84.07589	80.40369	197.59223	10.84494	0.1687700	0.25946412	2.4345452	21	11 15.5	20.4
321379 2009 OY_{18}	15.9	X	112.52740	355.95438	315.85827	8.79747	0.0319825	0.18858488	3.0116058	21	—	—
321380 2009 OE_{19}	15.5	X	50.83667	359.22805	320.16790	11.72446	0.1520349	0.17599608	3.1535572	21	11 8.9	20.1
321381 2009 OJ_{21}	16.8	X	41.56005	175.12715	138.28554	4.18814	0.1793774	0.25885128	2.4383863	21	11 13.2	19.8
321382 2009 OG_{24}	16.1	X	176.39917	143.41397	172.74131	15.03608	0.1481520	0.20422047	2.8558575	21	1 4.8	20.9
321383 2009 PX_1	16.1	X	88.44582	155.28158	342.80098	11.32788	0.0233746	0.22563816	2.6721511	21	4 17.7	19.8
321384 2009 PN_2	16.7	X	100.10080	335.69105	308.10196	4.38491	0.2193675	0.26471124	2.4022662	21	12 10.4	20.7
321385 2009 PQ_2	17.8	X	185.05613	270.81333	347.97546	2.22161	0.1767382	0.27934709	2.3176078	21	—	—
321386 2009 PX_4	17.1	X	78.58125	54.19413	242.07502	1.87798	0.2063624	0.26182413	2.4198936	21	12 5.4	20.7
321387 2009 PE_5	16.0	X	262.40555	311.11398	309.67849	8.54111	0.1005784	0.21120548	2.7925391	21	1 21.1	20.2
321388 2009 PM_7	16.3	X	344.39860	38.74616	35.27425	1.82030	0.1497484	0.17967799	3.1103276	21	12 27.6	19.8
321389 2009 PR_7	15.8	X	143.91737	53.41005	298.81082	5.48312	0.0780335	0.20343472	2.8632065	21	1 8.9	19.8
321390 2009 PJ_9	15.7	X	25.99881	195.06162	160.68523	3.50294	0.0993755	0.17303109	3.1894805	21	11 17.9	19.9
321391 2009 PU_{12}	16.5	X	307.61435	174.42687	152.23461	12.30124	0.2186465	0.23567956	2.5957017	21	5 23.3	19.9
321392 2009 PA_{13}	16.6	X	148.70675	183.00614	124.77180	1.10845	0.0835030	0.19196455	2.9761538	21	—	—
321393 2009 PD_{14}	16.5	X	192.82359	174.26753	164.04532	3.86749	0.0962535	0.21004605	2.8028060	21	2 12.5	20.8
321394 2009 PQ_{15}	16.6	X	287.56528	134.60546	174.79660	12.78456	0.1768432	0.22590389	2.6700552	21	4 9.1	20.4
321395 2009 PS_{15}	15.5	X	35.31969	209.51118	179.40318	11.54752	0.0851155	0.18103841	3.0947262	21	—	—
321396 2009 PT_{15}	16.1	X	55.18707	77.49809	261.06084	1.60796	0.1213722	0.17582900	3.1555547	21	12 7.1	20.5
321397 2009 PF_{16}	16.0	X	85.00378	328.85440	346.88579	4.37714	0.1197670	0.17803978	3.1293779	21	12 13.0	20.7
321398 2009 PH_{16}	15.8	X	306.96914	313.63787	175.64448	11.53821	0.0838477	0.18330538	3.0691579	21	—	—
321399 2009 PK_{17}	16.3	X	149.44066	179.06074	157.98962	10.86891	0.1253638	0.20195615	2.8771643	21	1 1.9	20.7
321400 2009 PM_{18}	16.1	X	244.86899	272.64349	356.13607	5.57848	0.0137055	0.20444648	2.8537524	21	1 20.3	20.1
321401 2009 PN_{18}	15.2	X	270.17250	112.67851	355.00470	17.61800	0.0895205	0.17089879	3.2159557	21	10 13.7	19.8
321402 2009 PH_{20}	16.2	X	137.75402	182.11435	168.65068	3.21454	0.0925947	0.19801650	2.9152007	21	1 2.6	20.4
321403 2009 QJ	15.8	X	51.09297	13.66273	307.69905	9.06292	0.0340755	0.17563451	3.1578838	21	10 26.2	20.4
321404 2009 QP	16.3	X	296.85909	278.62757	356.69231	11.46547	0.1594082	0.22121266	2.7076720	21	3 9.8	20.0
321405 Ingehorst	15.2	X	58.63336	300.22243	5.18396	16.18128	0.2343075	0.17388762	3.1789981	21	11 11.1	20.0
321406 2009 QA_1	13.7	X	315.02673	119.70769	333.30009	23.58423	0.0889037	0.08330955	5.1920577	21	11 5.7	20.6
321407 2009 QB_4	15.4	X	306.05699	110.93987	3.15371	14.81856	0.0570936	0.18123533	3.0924841	21	12 19.1	19.8
321408 2009 QJ_4	15.9	X	236.22156	329.10932	335.30524	13.51950	0.1580486	0.21331499	2.7740980	21	2 13.8	20.5
321409 2009 QF_5	17.0	X	326.42477	131.81838	149.54061	3.78097	0.2008022	0.23412039	2.6072133	21	4 20.7	19.8
321410 2009 QD_6	15.6	X	359.79554	198.30033	175.32634	5.92137	0.1148969	0.17089019	3.2160636	21	11 3.2	19.5
321411 2009 QM_6	16.5	X	104.14094	294.75519	36.24540	2.24607	0.1593828	0.18977585	2.9989928	21	—	—
321412 2009 QU_{10}	15.1	X	57.78798	4.37199	356.35323	22.45559	0.0848971	0.18182522	3.0857919	21	—	—
321413 2009 QC_{12}	15.6	X	336.69536	82.49330	346.58461	10.09603	0.0811042	0.17871983	3.1214345	21	12 4.6	19.7
321414 2009 QE_{15}	15.7	X	31.79196	231.60872	178.05727	10.22282	0.0774195	0.18503812	3.0499678	21	—	—
321415 2009 QP_{15}	16.4	X	332.05747	263.27581	4.95401	4.09784	0.0786052	0.22525456	2.6751840	21	4 27.8	19.6
321416 2009 QR_{15}	16.9	X	196.54012	139.23544	164.85745	6.75941	0.0434005	0.20064246	2.8897093	21	1 6.0	21.1
321417 2009 QL_{16}	15.7	X	321.75690	296.01375	166.49852	11.03822	0.0485488	0.18139291	3.0906928	21	12 27.1	20.0
321418 2009 QQ_{16}	16.1	X	281.48194	335.75540	358.61934	13.34067	0.1158484	0.22801231	2.6535699	21	5 5.7	20.1
321419 2009 QR_{18}	16.1	X	0.48521	133.86820	273.90519	5.25764	0.0528053	0.18090939	3.0961975	21	12 12.6	20.0
321420 2009 QY_{19}	15.7	X	24.70732	224.96684	156.70026	15.62034	0.1100476	0.18088307	3.0964978	21	12 20.9	20.1
321421 2009 QB_{21}	16.8	X	314.30596	135.92394	149.78336	13.55133	0.2538837	0.23218905	2.6216511	21	4 1.5	20.2
321422 2009 QJ_{21}	16.4	X	90.77322	291.05613	35.67162	2.09531	0.2061272	0.18579355	3.0416947	21	—	—
321423 2009 QH_{23}	16.5	X	211.62546	155.34248	166.12169	2.81821	0.1748968	0.21295744	2.7772022	21	2 10.5	21.1
321424 2009 QQ_{25}	17.3	X	37.76795	106.21649	202.98901	0.75863	0.1807961	0.25527906	2.4610810	21	10 31.3	20.2
321425 2009 QY_{25}	16.4	X	120.37455	150.21765	143.80180	4.67098	0.2178534	0.18829904	3.0146529	21	12 28.2	21.6
321426 2009 QF_{28}	16.6	X	283.26979	176.15283	154.94373	5.54006	0.0965340	0.23097397	2.6308375	21	5 13.4	20.2
321427 2009 QM_{32}	15.0	X	135.41561	5.38859	307.99661	24.99252	0.2646481	0.18832697	3.0143548	21	—	—
321428 2009 QK_{33}	15.1	X	28.47638	232.14328	118.34946	14.61393	0.1707961	0.17086391	3.2163934	21	11 26.9	19.4
321429 2009 QL_{34}	15.9	X	279.65005	320.57043	152.70294	11.31527	0.0542703	0.17894127	3.1188587	21	11 16.8	20.3
321430 2009 QN_{35}	15.5	X	180.13817	343.21308	9.83176	10.89395	0.1528910	0.20898262	2.8123062	21	2 24.5	20.1
321431 2009 QQ_{35}	15.4	X	28.44652	230.47524	149.84478	11.07508	0.0921183	0.17797869	3.1300940	21	12 20.9	19.8
321432 2009 QT_{39}	15.8	X	236.66746	273.56349	356.15686	14.48054	0.1295825	0.20493334	2.8492309	21	1 8.3	20.6
321433 2009 QM_{42}	16.2	X	219.67730	303.70049	21.17964	5.27692	0.1198610	0.21374394	2.7703854	21	2 24.6	20.6
321434 2009 QN_{42}	17.4	X	15.04662	4.81782	351.44722	1.93460	0.2139549	0.25482387	2.4640110	21	12 5.2	19.9
321435 2009 QM_{44}	13.1	X	308.44305	301.61980	127.28231	13.54997	0.1330647	0.08278454	5.2139865	21	10 11.7	19.7
321436 2009 QF_{45}	16.2	X	230.34746	202.88588	141.39664	14.69152	0.1928800	0.21979528	2.7193001	21	3 28.4	20.9
321437 2009 QR_{45}	16.3	X	104.90387	110.71035	185.07816	5.16400	0.1358712	0.18033512	3.1027671	21	12 12.0	21.1
321438 2009 QC_{48}	15.1	X	22.08797	197.47938	163.23989	12.59950	0.0499067	0.17080622	3.2171176	21	11 14.7	19.7
321439 2009 QW_{50}	15.9	X	36.97504	202.63480	172.72238	9.86463	0.0887427	0.18177113	3.0864041	21	12 25.5	20.3
321440 2009 QR_{52}	16.5	X	225.70797	141.06827	181.94921	4.61095	0.1187371	0.21404689	2.7677706	21	2 25.3	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321441 2009 QS_{52}	15.9	X	120.69225	181.43114	167.30522	5.48834	0.0734544	0.19432856	2.9519679	21	—	—
321442 2009 QG_{56}	15.6	X	350.98800	195.78296	191.98026	16.87511	0.1069958	0.17215659	3.2002725	21	11 7.5	19.7
321443 2009 QO_{56}	15.9	X	316.00724	211.44668	0.82005	7.47233	0.1632295	0.21013742	2.8019935	21	1 15.3	19.9
321444 2009 QZ_{57}	15.8	X	24.47647	348.66307	3.58966	4.81942	0.1162049	0.17311993	3.1883893	21	11 11.2	20.0
321445 2009 QA_{58}	16.0	X	356.05947	252.37075	174.84276	11.33169	0.1344970	0.18145683	3.0899670	21	—	—
321446 2009 QR_{58}	17.0	X	53.57149	324.28931	257.34233	3.45146	0.1337299	0.23961043	2.5672347	21	7 13.1	20.0
321447 2009 QJ_{60}	16.1	X	57.72596	182.22960	126.67667	2.24579	0.1905395	0.17221723	3.1995212	21	11 14.4	20.5
321448 2009 QS_{60}	16.7	X	302.25234	263.84053	15.24292	1.93638	0.0533240	0.22212003	2.7002931	21	4 4.9	20.4
321449 2009 QW_{60}	15.3	X	332.59167	228.92767	175.72334	19.56339	0.1376529	0.17079044	3.2173157	21	10 31.2	19.3
321450 2009 QN_{63}	16.4	X	145.66560	120.86247	205.35823	0.92455	0.1514735	0.19736181	2.9216441	21	—	—
321451 2009 RZ_{1}	16.2	X	60.78753	192.83288	254.12205	1.64943	0.0409992	0.19891081	2.9064563	21	1 16.2	19.8
321452 2009 RC_{2}	15.3	X	304.91727	243.58688	175.94523	17.02017	0.0344879	0.17068174	3.2186815	21	10 14.5	19.8
321453 Alexmarieann	15.3	X	2.94014	212.12630	187.01501	28.98301	0.2685716	0.17315318	3.1879811	21	12 25.4	19.4
321454 2009 RZ_{6}	16.1	X	221.08131	21.27355	299.50276	2.75629	0.1865631	0.21187968	2.7866121	21	2 17.3	20.7
321455 2009 RX_{11}	16.4	X	314.77734	266.40784	10.10841	4.96783	0.1233614	0.22212528	2.7002505	21	4 7.7	19.6
321456 2009 RF_{12}	16.7	X	57.00088	103.30185	166.91610	1.80648	0.0730364	0.24271939	2.5452653	21	9 16.3	19.8
321457 2009 RJ_{22}	16.6	X	243.43368	133.69783	207.74998	5.68154	0.0344042	0.22442988	2.6817334	21	4 13.5	20.4
321458 2009 RL_{22}	15.0	X	112.20194	284.36310	311.61273	12.05041	0.0377334	0.17051748	3.2207482	21	9 23.6	19.8
321459 2009 RG_{23}	15.6	X	348.32813	299.94173	179.76975	8.46086	0.0661193	0.18873007	3.0100612	21	—	—
321460 2009 RR_{27}	14.7	X	58.21203	2.70454	335.11407	15.57077	0.2144321	0.17644784	3.1481722	21	12 23.2	19.6
321461 2009 RG_{28}	17.3	X	154.34661	3.03987	281.59013	5.04624	0.1871288	0.27723999	2.3293360	21	—	—
321462 2009 RY_{36}	16.4	X	115.04800	72.83251	236.73946	6.10923	0.1266001	0.26904771	2.3763834	21	—	—
321463 2009 RT_{38}	16.7	X	234.40079	287.04101	40.15881	2.02393	0.1036155	0.21607216	2.7504485	21	3 13.0	20.9
321464 2009 RO_{41}	15.6	X	176.32663	5.44336	258.07019	6.09613	0.1616252	0.18759561	3.0221843	21	—	—
321465 2009 RB_{43}	15.6	X	92.27704	99.64856	214.62805	9.20123	0.1475324	0.17841331	3.1250085	21	12 21.3	20.6
321466 2009 RM_{43}	15.7	X	28.25771	96.12535	351.70553	10.79907	0.0743330	0.18944153	3.0025200	21	—	—
321467 2009 RP_{45}	15.7	X	177.11739	243.90922	7.57676	7.54620	0.0832136	0.18099151	3.0952608	21	12 28.5	20.5
321468 2009 RH_{48}	15.3	X	352.60753	62.47262	13.33569	16.34194	0.0881378	0.17778499	3.1323671	21	—	—
321469 2009 RO_{48}	16.1	X	324.70181	222.45196	13.93385	7.92978	0.1633601	0.21311020	2.7758749	21	2 26.6	19.6
321470 2009 RB_{49}	15.4	X	292.37636	109.97820	16.32656	10.05801	0.0579516	0.17529692	3.1619369	21	12 13.8	19.8
321471 2009 RZ_{49}	16.7	X	35.48778	277.26731	15.89407	11.12480	0.1604695	0.24382296	2.5375795	21	10 1.4	19.6
321472 2009 RJ_{53}	15.5	X	90.49214	177.09203	195.97739	10.33488	0.0631431	0.18621880	3.0370623	21	—	—
321473 2009 RB_{60}	15.0	X	219.77886	308.50177	257.63126	15.44559	0.0185632	0.18600591	3.0393793	21	12 27.6	19.3
321474 2009 RK_{61}	15.3	X	33.68084	210.02812	176.44722	17.56432	0.1939420	0.17835055	3.1257416	21	—	—
321475 2009 RU_{62}	15.6	X	48.22512	337.91410	11.90025	9.75629	0.1249363	0.17767878	3.1336152	21	12 11.9	20.1
321476 2009 RJ_{65}	15.8	X	157.71678	112.93466	174.45308	4.05396	0.1583247	0.18568940	3.0428319	21	—	—
321477 2009 RO_{65}	15.9	X	259.25151	227.00659	61.81876	18.04136	0.1524985	0.21800887	2.7341349	21	2 23.2	20.5
321478 2009 RJ_{69}	16.5	X	185.18233	224.46439	137.41618	5.75940	0.1660129	0.21303823	2.7765001	21	3 9.1	21.0
321479 2009 RK_{69}	15.8	X	8.74524	335.02321	34.99486	5.82045	0.1832073	0.17277646	3.1926134	21	11 17.8	19.5
321480 2009 RZ_{69}	15.7	X	162.48233	38.59246	224.51032	9.59624	0.0600397	0.18485865	3.0519415	21	12 27.5	20.4
321481 2009 RC_{71}	16.4	X	106.87619	201.69306	69.11840	2.54765	0.1598687	0.17379618	3.1801130	21	11 15.9	21.4
321482 2009 RU_{71}	15.7	X	163.16381	228.48205	22.08074	11.83424	0.1244972	0.17756425	3.1349626	21	12 10.1	20.9
321483 2009 SW_{4}	15.6	X	31.81313	215.86074	218.68235	9.46440	0.0703678	0.19184411	2.9773992	21	—	—
321484 Marsaalam	15.4	X	116.00301	319.58723	338.76974	15.31782	0.1132965	0.17780113	3.1321776	21	12 24.3	20.5
321485 Cross	17.0	X	142.64816	280.66375	359.52665	1.06210	0.1742980	0.26948183	2.3738306	21	—	—
321486 2009 SN_{25}	15.3	X	258.36420	167.31328	1.71048	12.00848	0.0888346	0.18003677	3.1061940	21	12 19.2	19.8
321487 2009 SZ_{38}	16.1	X	144.33685	46.88428	210.72969	7.01626	0.1824489	0.17625511	3.1504668	21	12 4.0	21.4
321488 2009 SW_{39}	16.4	X	157.03271	26.92663	276.42022	0.77304	0.0527809	0.18684058	3.0303206	21	—	—
321489 2009 SR_{44}	15.7	X	165.34927	331.86433	340.09594	4.74608	0.0709952	0.19024577	2.9940523	21	—	—
321490 2009 SH_{54}	15.8	X	39.72197	229.25852	182.42317	10.36093	0.0190893	0.18918227	3.0052626	21	—	—
321491 2009 SA_{61}	16.6	X	292.86836	336.17730	327.04437	4.58416	0.1609344	0.22214318	2.7001055	21	4 6.1	20.3
321492 2009 SD_{62}	17.0	X	282.54457	76.25461	232.70853	1.31878	0.0373522	0.22348567	2.6892815	21	4 20.3	20.6
321493 2009 SM_{66}	15.3	X	163.89266	47.43917	189.86795	12.38862	0.0242394	0.17198123	3.2024475	21	11 29.6	20.1
321494 2009 ST_{72}	17.0	X	6.98515	327.66932	325.46811	2.55813	0.1803589	0.24094042	2.5577786	21	8 7.9	19.1
321495 2009 SN_{73}	15.8	X	74.42338	119.33744	186.78795	14.01466	0.0746920	0.17329523	3.1862387	21	11 16.3	20.5
321496 2009 SO_{77}	16.4	X	57.33563	265.82975	29.99954	5.14410	0.2060584	0.24478337	2.5309376	21	11 9.5	19.9
321497 2009 SF_{78}	16.2	X	56.82291	313.20677	270.05678	8.62454	0.0402488	0.23746086	2.5827043	21	7 6.1	19.3
321498 2009 ST_{98}	15.9	X	114.55454	163.86879	166.50820	6.14763	0.1824271	0.18764802	3.0216215	21	—	—
321499 2009 SE_{120}	16.0	X	85.23377	353.57545	340.60712	5.41518	0.1580778	0.18081923	3.0972265	21	—	—
321500 2009 SC_{124}	17.9	X	231.05728	131.95476	222.52569	5.64892	0.2192309	0.30244438	2.1980575	21	3 27.9	21.4
321501 2009 SD_{129}	16.9	X	126.59313	258.00589	21.53086	10.92507	0.2797817	0.26565813	2.3965545	21	12 27.6	21.4
321502 2009 SY_{130}	15.6	X	52.91798	156.19614	186.92699	11.61087	0.1387493	0.17300102	3.1898500	21	12 12.3	20.3
321503 2009 SV_{150}	16.1	X	279.53006	77.27740	206.79446	5.92842	0.0291194	0.21329930	2.7742340	21	3 16.3	20.1
321504 2009 SU_{153}	15.6	X	89.42424	188.62783	191.74268	11.64653	0.1116320	0.18983537	2.9983659	21	—	—
321505 2009 SH_{165}	16.3	X	329.47512	298.82670	310.12565	12.01045	0.1302258	0.22642969	2.6659202	21	3 15.9	19.9
321506 2009 SZ_{167}	15.6	X	246.86813	298.71165	194.37019	18.01031	0.0952075	0.16983298	3.2293965	21	10 22.2	20.3
321507 2009 SS_{169}	16.2	X	153.56243	66.50400	231.67337	6.61172	0.2177378	0.19213094	2.9744352	21	—	—
321508 2009 SE_{170}	15.9	X	278.59591	333.97797	272.55382	8.19844	0.1267133	0.20977292	2.8052383	21	1 16.9	20.0
321509 2009 SG_{172}	15.4	X	47.41052	104.58756	248.66785	7.98038	0.0792089	0.17453024	3.1711900	21	12 9.3	19.8
321510 2009 SV_{180}	16.0	X	80.46834	91.06837	188.25487	7.77857	0.0519919	0.16848787	3.2465614	21	10 17.3	20.6
321511 2009 SW_{182}	16.7	X	245.94701	124.66872	12.93300	6.98597	0.0716019	0.25401573	2.4692344	21	11 8.6	19.9
321512 2009 SY_{189}	16.1	X	9.03633	256.71377	356.86667	16.70397	0.1836105	0.23057582	2.6338652	21	6 5.0	19.0
321513 2009 SG_{193}	13.1	X	314.33873	211.68668	212.21186	8.33640	0.0639202	0.08286759	5.2105019	21	10 14.9	19.7
321514 2009 SV_{200}	15.5	X	97.47679	72.98547	227.65415	16.45494	0.1696410	0.17790238	3.1309890	21	12 12.2	20.6
321515 2009 SK_{201}	17.8	X	84.91646	272.74663	150.00782	2.44265	0.1075240	0.27986988	2.3147208	21	1 5.1	20.2
321516 2009 SM_{203}	16.0	X	214.09568	139.01702	60.24893	6.53063	0.0729676	0.17477168	3.1682687	21	12 5.1	20.6
321517 2009 SW_{205}	17.4	X	39.34650	299.53846	198.58621	9.65774	0.1238957	0.28405161	2.2919469	21	1 29.3	19.7
321518 2009 SE_{208}	16.4	X	289.01606	292.68210	3.13619	4.89237	0.1528912	0.22008044	2.7169506	21	3 26.2	20.3
321519 2009 SC_{213}	16.5	X	334.24265	277.31798	30.27753	5.08626	0.2185037	0.23358944	2.6111626	21	6 9.5	18.9
321520 2009 SS_{217}	15.7	X	71.72327	281.36704	47.49659	1.64423	0.0987204	0.17594711	3.1541424	21	12 11.6	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321521 2009 SO_{230}	15.8	X	90.94506	326.40648	349.01528	8.66615	0.0715138	0.17972385	3.1097984	21	12 13.8	20.5
321522 2009 SB_{231}	16.5	X	133.90700	36.91519	342.85971	1.33848	0.0791911	0.20291198	2.8681218	21	1 31.1	20.5
321523 2009 SS_{232}	15.9	X	88.50516	204.15391	127.66793	6.03201	0.1852872	0.18237112	3.0796309	21	—	—
321524 2009 SA_{233}	15.6	X	64.05562	220.60514	109.65796	6.41947	0.1542597	0.17561548	3.1581120	21	12 12.3	20.1
321525 2009 SD_{235}	16.9	X	91.29954	353.87906	28.56092	4.05319	0.2051688	0.27098987	2.3650156	21	—	—
321526 2009 ST_{235}	13.5	X	308.18037	226.63734	218.44946	11.21154	0.0872757	0.08415985	5.1570273	21	10 29.2	20.1
321527 2009 SM_{236}	15.0	X	79.65586	236.23054	107.56902	10.64598	0.1831894	0.18289402	3.0737583	21	—	—
321528 2009 SL_{238}	16.3	X	319.42756	156.10748	163.08117	13.33427	0.1984698	0.23356000	2.6113820	21	6 3.9	19.5
321529 2009 SQ_{242}	15.8	X	101.98657	184.52276	131.68140	15.52404	0.2150517	0.18369846	3.0647782	21	—	—
321530 2009 SR_{249}	15.5	X	354.99497	228.72270	185.44694	12.71998	0.1028815	0.17294390	3.1905524	21	12 15.1	19.7
321531 2009 SN_{258}	15.8	X	153.48242	162.21124	142.44372	3.58524	0.0986077	0.19019126	2.9946243	21	—	—
321532 2009 SZ_{258}	15.5	X	288.82200	209.16535	244.37035	4.33429	0.1252888	0.16814258	3.2510046	21	10 20.4	19.8
321533 2009 SS_{261}	16.7	X	3.88004	56.85260	325.28913	9.73089	0.0431013	0.17352888	3.1833779	21	11 10.1	21.2
321534 2009 SP_{264}	15.9	X	150.44011	194.91485	152.59058	6.66002	0.0941822	0.19740518	2.9212161	21	1 12.7	20.3
321535 2009 SC_{266}	15.6	X	202.16295	238.67256	22.51057	11.46269	0.0665612	0.18545992	3.0453416	21	—	—
321536 2009 SP_{270}	15.6	X	198.24076	231.99183	26.30789	12.95104	0.1510756	0.19176002	2.9782696	21	—	—
321537 2009 SF_{271}	16.0	X	326.01264	281.71466	9.72900	13.03209	0.1747407	0.22644863	2.6657715	21	5 3.5	19.3
321538 2009 SR_{272}	15.1	X	148.83804	281.72175	319.71627	25.39553	0.0670070	0.17594690	3.1541449	21	11 8.3	20.4
321539 2009 SO_{273}	18.0	X	120.39706	258.97320	28.16716	2.05758	0.1651888	0.26434095	2.4045091	21	12 29.9	21.9
321540 2009 SM_{275}	15.5	X	260.24092	347.87916	181.07841	10.82245	0.1380126	0.17855255	3.1233837	21	12 15.2	19.9
321541 2009 SW_{275}	17.0	X	262.42444	256.08863	104.22107	2.45385	0.1991442	0.22703322	2.6611934	21	5 12.5	21.0
321542 2009 SJ_{276}	16.6	X	213.06139	253.08374	52.58636	2.71757	0.0516590	0.20326273	2.8648213	21	1 27.0	20.7
321543 2009 SP_{276}	17.7	X	50.82068	295.28979	155.81860	3.18012	0.1345617	0.27861022	2.3216925	21	—	—
321544 2009 SQ_{276}	16.2	X	61.13570	25.48766	23.14788	9.55487	0.0398194	0.19008314	2.9957598	21	—	—
321545 2009 SY_{277}	15.8	X	281.07916	174.75725	30.64250	11.02890	0.0735374	0.19444520	2.9507872	21	—	—
321546 2009 SN_{279}	15.4	X	334.43563	292.78019	170.16885	7.88436	0.0415158	0.18069926	3.0985973	21	—	—
321547 2009 SJ_{281}	16.5	X	250.98883	275.09852	48.88251	5.78612	0.1143832	0.21658325	2.7461198	21	3 26.9	20.7
321548 2009 SV_{283}	16.8	X	269.98042	180.79654	136.11025	5.07329	0.1091056	0.21903764	2.7255672	21	4 8.0	20.7
321549 2009 SD_{290}	16.5	X	351.30959	121.54650	153.41562	4.75460	0.2063859	0.22912547	2.6449683	21	5 31.9	18.8
321550 2009 SL_{290}	15.8	X	303.26383	14.29914	171.97980	8.76774	0.0339890	0.19177892	2.9780739	21	—	—
321551 2009 SN_{290}	15.8	X	61.66467	184.67765	142.09901	5.78637	0.1733290	0.17229761	3.1985259	21	12 7.7	20.5
321552 2009 SP_{290}	17.5	X	305.96494	130.62213	89.90795	4.88153	0.1014128	0.28574753	2.2828694	21	1 4.4	20.5
321553 2009 SN_{316}	16.7	X	288.08413	251.96776	8.46445	7.52007	0.1853896	0.21606693	2.7504928	21	2 8.7	20.8
321554 2009 SN_{321}	16.2	X	172.99843	84.89260	173.05411	8.16570	0.1040373	0.18053425	3.1004851	21	12 30.0	21.2
321555 2009 SW_{328}	15.9	X	314.56567	313.27811	349.85170	12.30193	0.1851486	0.23043417	2.6349445	21	4 27.9	19.3
321556 2009 ST_{329}	15.3	X	164.00971	285.01442	343.39454	13.41560	0.2504789	0.18945870	3.0023387	21	—	—
321557 2009 SW_{334}	15.9	X	237.50530	320.31742	358.85315	13.28612	0.1374571	0.21426965	2.7658520	21	3 6.1	20.3
321558 2009 SX_{337}	15.1	X	106.62695	84.89778	253.07869	8.41875	0.0950140	0.18308680	3.0716002	21	—	—
321559 2009 SB_{338}	15.7	X	92.50930	340.13141	359.20874	10.25195	0.0876076	0.17834014	3.1258633	21	—	—
321560 2009 SJ_{339}	15.6	X	170.45653	315.34729	353.81589	9.77550	0.0489100	0.19259344	2.9696713	21	—	—
321561 2009 SX_{342}	16.4	X	239.49673	60.36865	146.90623	3.46920	0.0057569	0.18487935	3.0517136	21	—	—
321562 2009 SF_{349}	16.6	X	145.71598	255.53877	30.50929	2.75734	0.1220302	0.18275308	3.0753384	21	—	—
321563 2009 SL_{351}	16.7	X	222.36280	162.24618	205.48520	4.76237	0.0790525	0.22162622	2.7043026	21	4 19.9	20.6
321564 2009 SF_{354}	15.4	X	294.32450	236.58399	53.63788	13.95669	0.1908094	0.21204768	2.7851400	21	3 28.4	19.5
321565 2009 SL_{355}	17.0	X	172.48971	102.41734	220.38389	7.10059	0.0450102	0.27366839	2.3495587	21	—	—
321566 2009 SM_{356}	15.6	X	66.83857	205.47379	182.44124	14.99727	0.0759067	0.18834854	3.0141247	21	—	—
321567 2009 ST_{356}	15.6	X	316.76378	244.16202	186.19891	10.34644	0.0629114	0.16785221	3.2547527	21	11 9.6	20.0
321568 2009 SN_{358}	15.5	X	231.16492	302.12884	249.76666	7.83931	0.0227209	0.17737384	3.1372058	21	12 22.5	19.9
321569 2009 SA_{359}	16.3	X	193.87216	160.81135	217.33338	4.82535	0.0791532	0.21453277	2.7635901	21	4 1.7	20.5
321570 2009 SE_{361}	12.8	X	43.42856	147.61747	180.79445	19.15886	0.0159193	0.08276086	5.2149808	21	10 16.9	19.7
321571 2009 SS_{362}	15.9	X	355.20508	60.51610	339.27503	4.06824	0.1150189	0.17115363	3.2127626	21	11 26.5	19.9
321572 2009 TG	15.6	X	166.04377	194.46310	40.55511	15.31201	0.0081784	0.17256747	3.1951905	21	11 26.1	20.2
321573 2009 TX_{8}	15.0	X	359.08611	81.25362	4.18463	15.34492	0.0377523	0.18046910	3.1012313	21	—	—
321574 2009 TQ_{12}	16.1	X	104.84050	121.02798	196.17643	9.75530	0.1111768	0.18093762	3.0958754	21	—	—
321575 2009 TZ_{14}	16.2	X	255.86229	327.78012	322.64326	7.07412	0.1818924	0.21465370	2.7625520	21	2 11.7	20.7
321576 2009 TY_{20}	15.7	X	125.15366	219.85668	87.52301	5.51770	0.1458541	0.18345567	3.0674816	21	—	—
321577 2009 TA_{27}	15.4	X	61.31572	211.37673	180.78376	11.57788	0.1198561	0.18278027	3.0750335	21	—	—
321578 2009 TT_{36}	16.2	X	357.89618	133.61855	176.50302	14.52175	0.2175710	0.23932745	2.5692580	21	8 12.2	18.5
321579 2009 TS_{44}	15.9	X	263.99119	79.59535	193.64001	5.42531	0.0280676	0.20044129	2.8916424	21	2 13.8	20.1
321580 2009 TF_{46}	13.9	X	321.33901	220.35711	214.51102	6.72999	0.1409891	0.08134949	5.2751257	21	10 30.1	20.3
321581 2009 TA_{48}	16.6	X	294.81982	249.36544	41.27189	8.61484	0.1101768	0.21858632	2.7293175	21	4 4.7	20.4
321582 2009 UV_{8}	16.5	X	235.29660	136.20392	175.14520	8.82050	0.1306324	0.21058170	2.7980510	21	2 19.9	21.0
321583 2009 UM_{9}	16.4	X	342.35782	95.16439	147.93059	5.08218	0.1210690	0.21802694	2.7339838	21	4 8.3	19.5
321584 2009 UG_{21}	13.4	X	340.31806	8.99528	67.56184	10.60385	0.0610669	0.08533537	5.1095580	21	11 30.9	20.0
321585 2009 UP_{25}	16.5	X	232.97718	307.67451	85.49345	5.54693	0.1149206	0.22284260	2.6944527	21	5 31.9	20.5
321586 2009 UV_{28}	16.7	X	196.50548	149.61466	204.67966	1.22100	0.0824965	0.20500099	2.8486040	21	3 7.9	20.9
321587 2009 UF_{62}	15.1	X	294.10093	260.23495	244.82443	8.85209	0.0186469	0.18145335	3.0900064	21	—	—
321588 2009 UD_{66}	16.2	X	136.15562	227.16685	106.33059	3.20248	0.1078379	0.18964354	3.0003875	21	—	—
321589 2009 UU_{71}	15.9	X	137.74694	68.90005	258.67727	3.95868	0.2065175	0.18823482	3.0153385	21	—	—
321590 2009 UE_{72}	13.5	X	334.25771	36.15885	35.38111	14.55371	0.0806479	0.08322792	5.1954521	21	11 14.9	20.0
321591 2009 UC_{86}	15.4	X	320.40913	268.84016	175.12341	17.29255	0.1646673	0.17486636	3.1671250	21	11 28.7	19.3
321592 2009 UK_{94}	16.9	X	306.74499	142.70069	188.23211	3.71361	0.1588349	0.22926288	2.6439113	21	6 4.5	20.2
321593 2009 UQ_{97}	16.3	X	149.48775	156.27917	182.71644	3.32745	0.1347703	0.19158869	2.9800449	21	1 7.1	20.7
321594 2009 UC_{108}	15.7	X	148.57665	35.46722	224.51952	8.86672	0.0771985	0.16964070	3.2318363	21	12 8.1	20.7
321595 2009 UM_{116}	15.6	X	196.66347	36.95553	253.40169	7.61155	0.0608402	0.19138933	2.9821139	21	—	—
321596 2009 UY_{124}	16.4	X	155.93944	115.72592	156.37296	4.70141	0.1571607	0.17990364	3.1077262	21	12 29.6	21.6
321597 2009 UZ_{126}	12.7	X	353.87348	174.08298	226.41893	24.80153	0.1032141	0.08273277	5.2161611	21	11 8.3	19.1
321598 2009 UN_{137}	15.5	X	109.30255	187.03403	174.56740	10.28056	0.1049112	0.18916169	3.0054806	21	—	—
321599 2009 UJ_{140}	14.2	X	343.33268	331.44065	88.09756	1.71659	0.0604861	0.08144598	5.2709587	21	11 15.7	20.8
321600 2009 UP_{140}	16.4	X	71.14589	138.21224	293.45579	5.62198	0.1515919	0.18910351	3.0060970	21	1 25.2	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321601 2009 UB_{146}	15.5	X	48.91274	226.70595	126.05726	12.66602	0.0865965	0.17302747	3.1895250	21	12 12.8	20.1
321602 2009 UZ_{147}	16.0	X	154.69164	116.12982	210.88031	2.67120	0.0756314	0.18882092	3.0090955	21	—	—
321603 2009 US_{148}	13.9	X	337.07336	44.65490	35.64434	4.94772	0.0546465	0.08547823	5.1038631	21	11 30.7	20.5
321604 2009 VV_{2}	13.1	X	339.54360	95.07779	326.14877	20.58207	0.0986437	0.08153808	5.2669887	21	11 3.3	19.9
321605 2009 VQ_{11}	14.9	X	88.42128	241.24641	257.37862	2.14813	0.0965036	0.12450293	3.9720649	21	5 11.9	20.5
321606 2009 VK_{21}	16.1	X	158.25999	226.99479	101.95588	4.42065	0.0876809	0.18761634	3.0219616	21	—	—
321607 2009 VN_{39}	15.5	X	55.80266	46.27337	40.42623	14.78487	0.0586871	0.18938537	3.0031136	21	1 15.4	19.7
321608 2009 VB_{45}	17.1	X	147.08836	308.81369	24.23540	6.22594	0.2057961	0.27456411	2.3444458	21	—	—
321609 2009 VV_{45}	16.0	X	173.69704	287.05024	41.56251	3.60722	0.2144381	0.19492561	2.9459370	21	1 24.0	21.0
321610 2009 VG_{50}	13.2	X	345.01167	329.02220	91.30922	8.22482	0.1224069	0.08247546	5.2270048	21	11 19.5	19.5
321611 2009 VG_{58}	12.8	X	14.63067	331.56771	57.26638	26.91576	0.0591790	0.08308329	5.2014801	21	11 20.4	19.5
321612 2009 VS_{82}	17.4	X	324.50128	344.05813	132.14943	1.89577	0.1370699	0.25471326	2.4647243	21	—	—
321613 2009 VA_{86}	13.9	X	10.73019	232.00039	169.02553	2.69186	0.0755627	0.08159926	5.2643556	21	11 30.3	20.6
321614 2009 VS_{92}	16.7	X	250.77108	267.62482	112.43723	4.52517	0.1843789	0.22528899	2.6749114	21	5 27.6	20.7
321615 2009 VG_{100}	15.2	X	126.98343	237.62467	61.47518	25.03826	0.2117707	0.17650546	3.1474870	21	—	—
321616 2009 VR_{107}	13.1	X	330.77527	357.84499	59.88930	6.51418	0.0793773	0.08043251	5.3151430	21	10 29.1	19.7
321617 2009 WT_{33}	16.5	X	186.88221	259.60987	97.92549	3.24602	0.0776628	0.19836270	2.9118078	21	3 4.4	20.9
321618 2009 WQ_{35}	15.3	X	167.80996	218.85759	248.56951	2.51110	0.0173213	0.14129961	3.6506938	21	6 26.0	20.4
321619 2009 WQ_{53}	16.9	X	280.07685	342.14549	14.71849	5.16203	0.1887108	0.30885415	2.1675399	21	5 23.2	19.7
321620 2009 WX_{62}	16.2	X	116.30739	35.51205	200.09201	6.44829	0.0963774	0.23772194	2.5808130	21	10 16.4	19.9
321621 2009 WC_{69}	16.6	X	82.80591	161.61969	276.27179	6.36184	0.0787109	0.27507152	2.3415618	21	1 20.5	19.1
321622 2009 WU_{72}	16.4	X	82.02215	177.52917	146.18309	2.77137	0.1329901	0.16984138	3.2292900	21	12 19.7	21.3
321623 2009 WF_{88}	16.4	X	304.76953	139.29039	282.75834	7.53741	0.0652431	0.24066249	2.5597474	21	10 19.1	19.6
321624 2009 WF_{90}	16.6	X	359.70927	161.59723	294.41497	5.53016	0.0920509	0.25905722	2.4370938	21	—	—
321625 2009 WR_{99}	13.8	X	347.33865	156.92232	247.88269	3.34129	0.1055449	0.08010843	5.3294684	21	11 3.2	20.2
321626 2009 WC_{100}	16.1	X	14.78670	5.09716	62.01797	2.58315	0.1682088	0.17285557	3.1916392	21	—	—
321627 2009 WB_{102}	14.2	X	28.43809	117.46304	259.29203	6.28387	0.0845147	0.08498243	5.1236952	21	11 26.5	20.7
321628 2009 WV_{107}	14.1	X	293.81232	294.38874	174.62062	2.69376	0.0733031	0.08162928	5.2630649	21	11 8.9	20.9
321629 2009 WO_{121}	17.1	X	215.73472	121.54137	288.70647	0.76639	0.0714698	0.21792782	2.7348128	21	6 6.9	20.9
321630 2009 WO_{150}	14.7	X	115.03876	278.65663	199.91141	8.96797	0.0973571	0.12444430	3.9733124	21	5 19.9	20.5
321631 2009 WU_{167}	14.1	X	32.03158	266.09575	114.96079	2.29333	0.0564427	0.08313113	5.1994843	21	12 2.9	20.7
321632 2009 WF_{195}	15.9	X	207.35374	283.38981	88.95485	13.48887	0.0103730	0.20636891	2.8360021	21	4 19.0	20.1
321633 2009 WQ_{205}	17.6	X	306.21623	286.82534	350.66640	2.51915	0.1486869	0.29540282	2.2328504	21	3 14.0	20.3
321634 2009 WU_{211}	16.5	X	272.24208	222.19988	120.72806	3.48364	0.0736691	0.21659581	2.7460136	21	5 18.4	20.2
321635 2009 WD_{215}	15.0	X	110.42567	222.85430	83.47755	11.80149	0.1114989	0.17040675	3.2221433	21	12 25.5	19.9
321636 2009 WU_{220}	16.8	X	266.85208	155.91984	168.71052	1.93348	0.0810470	0.21391396	2.7689172	21	4 16.6	20.5
321637 2009 WP_{227}	16.5	X	188.94806	187.96380	158.07595	2.47539	0.0744491	0.20043064	2.8917448	21	2 18.8	20.8
321638 2009 WM_{249}	17.9	X	225.63804	248.20005	162.55746	0.41547	0.0973050	0.30472649	2.1870695	21	6 15.0	20.5
321639 2009 XF_{3}	15.2	X	172.92637	190.78745	103.12785	12.53439	0.0217262	0.17812318	3.1284010	21	—	—
321640 2009 XW_{10}	16.9	X	227.32838	315.86386	244.93493	1.35878	0.0445214	0.24711827	2.5149700	21	—	—
321641 2010 AV_{5}	17.0	X	332.45201	54.60610	130.00321	3.25120	0.1629379	0.26117004	2.4239322	21	—	—
321642 2010 AG_{25}	16.7	X	117.79343	160.40733	110.81824	4.94635	0.0836726	0.23297491	2.6157523	21	11 30.7	20.6
321643 2010 AT_{26}	16.6	X	137.70164	175.01295	344.59648	3.86992	0.1408600	0.21238409	2.7821982	21	8 5.3	20.8
321644 2010 AD_{29}	15.8	X	254.74550	265.38343	316.38843	2.51529	0.0332253	0.17350701	3.1836454	21	—	—
321645 2010 AC_{56}	15.6	X	272.79626	1.31356	328.92971	11.34760	0.0470350	0.19703263	2.9248972	21	5 1.7	20.0
321646 2010 AA_{67}	15.4	X	36.87640	183.30546	320.84364	9.69995	0.0656573	0.18030669	3.1030933	21	2 27.1	19.4
321647 2010 AB_{75}	15.9	X	45.86673	37.61486	96.30714	13.61915	0.1166229	0.18695854	3.0290458	21	3 9.6	19.8
321648 2010 AC_{78}	15.7	X	241.25309	207.32113	324.31668	16.52684	0.1441021	0.23300508	2.6155265	21	12 1.8	19.7
321649 2010 AP_{84}	15.7	X	244.17760	14.96416	172.46443	10.89823	0.1588009	0.17784360	3.1316788	21	12 15.2	20.4
321650 2010 BH_{6}	16.2	X	249.11160	59.21855	92.06101	10.99967	0.1275894	0.23132066	2.6282082	21	11 22.5	19.7
321651 2010 BY_{9}	13.5	X	338.39498	80.21909	342.28173	6.78240	0.0964489	0.08439132	5.1475931	21	11 9.8	20.0
321652 2010 BV_{47}	13.1	X	45.27917	10.26479	333.01232	12.08904	0.0572054	0.08292285	5.2081868	21	11 2.4	20.0
321653 2010 BP_{59}	13.7	X	2.51444	307.25586	80.55601	10.82943	0.1297434	0.08278115	5.2141287	21	11 9.7	20.0
321654 2010 BE_{60}	16.8	X	150.62183	132.52809	119.76977	6.59571	0.0227501	0.22301145	2.6930925	21	12 10.8	20.6
321655 2010 BQ_{70}	15.5	X	203.67914	14.81787	355.59821	13.56926	0.1255328	0.17640082	3.1487317	21	4 3.5	20.6
321656 2010 BM_{90}	13.2	X	354.59526	280.56552	136.02548	12.47556	0.0551896	0.08526678	5.1122977	21	11 29.4	19.9
321657 2010 BM_{117}	12.9	X	322.74200	311.56336	133.50227	23.79419	0.0851974	0.08273379	5.2161182	21	11 23.5	19.8
321658 2010 CG_{12}	15.9	X	32.95604	299.00635	173.40850	10.87895	0.1968879	0.17615145	3.1517026	21	1 15.9	19.5
321659 2010 CS_{20}	16.6	X	58.13146	187.38528	118.74177	3.90208	0.0631522	0.22399453	2.6852070	21	11 2.3	20.1
321660 2010 CN_{22}	16.7	X	253.45535	329.46641	104.92877	1.89196	0.0403666	0.21473491	2.7618554	21	8 29.1	20.4
321661 2010 CC_{40}	17.2	X	251.23813	151.96046	151.61608	7.66489	0.1549438	0.26628027	2.3928202	21	2 18.4	20.8
321662 2010 CJ_{57}	15.8	X	153.46427	358.33259	150.94466	8.71948	0.1260978	0.20908558	2.8113828	21	8 5.6	20.1
321663 2010 CP_{60}	15.8	X	216.75771	327.35062	158.34167	13.49520	0.1354487	0.22005519	2.7171585	21	9 9.5	19.9
321664 2010 CX_{74}	16.7	X	163.16084	71.20978	145.07386	3.38677	0.0997692	0.22664988	2.6641933	21	11 9.7	20.8
321665 2010 CT_{77}	16.3	X	280.25894	81.71902	179.36912	0.80401	0.1316825	0.17487976	3.1669632	21	2 10.9	21.0
321666 2010 CG_{79}	16.4	X	56.85671	302.80433	331.56106	2.49932	0.1270230	0.21110021	2.7934674	21	9 25.7	20.0
321667 2010 CB_{81}	17.0	X	161.36267	324.36700	336.34778	2.08329	0.1526524	0.24257514	2.5462743	21	—	—
321668 2010 CH_{94}	17.5	X	95.02192	77.83106	131.57472	2.42484	0.0872346	0.29247541	2.2477249	21	8 20.5	20.2
321669 2010 CJ_{106}	17.1	X	246.40854	168.33179	132.24915	6.23807	0.2416155	0.26527808	2.3988429	21	2 6.8	21.0
321670 2010 CZ_{137}	16.1	X	288.77901	69.05383	347.45198	12.55033	0.0820990	0.22027383	2.7153602	21	9 15.3	19.4
321671 2010 CF_{162}	16.5	X	7.17988	29.66310	134.15123	1.38499	0.1606588	0.17685285	3.1433640	21	2 6.2	19.9
321672 2010 CC_{165}	15.8	X	291.59779	319.74380	298.32420	3.80156	0.0917830	0.17957854	3.1114758	21	2 23.3	20.3
321673 2010 CO_{182}	16.3	X	1.62878	201.01849	107.76761	4.98902	0.1437556	0.21053316	2.7984811	21	8 17.1	19.2
321674 2010 CU_{240}	13.3	X	13.36513	89.66109	294.23602	12.52848	0.1547536	0.08284665	5.2113802	21	11 17.9	19.7
321675 2010 DF_{12}	15.6	X	41.69475	220.76217	113.07918	13.97836	0.2018713	0.22891890	2.6465592	21	12 8.5	19.3
321676 2010 DN_{30}	13.3	X	26.32106	63.81476	328.75000	13.55912	0.0329596	0.08217611	5.2396910	21	12 4.8	20.3
321677 2010 DS_{40}	16.5	X	51.72261	114.95395	202.51260	4.93115	0.1281599	0.21846209	2.7303521	21	11 16.2	20.1
321678 2010 DY_{42}	15.0	X	56.44512	12.41420	267.84835	1.06758	0.1426584	0.12290357	4.0064499	21	9 25.5	20.4
321679 2010 DB_{46}	17.6	X	62.91041	270.61158	264.23148	1.90913	0.0998007	0.27702158	2.3305601	21	5 12.8	20.0
321680 2010 DF_{76}	16.5	X	224.82078	72.72748	133.10663	6.17730	0.0881390	0.23710668	2.5852756	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321681 2010 EE_{41}	17.3	X	187.39173	250.84505	298.80647	0.42240	0.0301256	0.22324307	2.6912295	21	11 4.9	20.9
321682 2010 EV_{43}	17.8	X	182.67447	279.56398	183.33637	4.18341	0.0872165	0.29289339	2.2455859	21	7 7.5	20.8
321683 2010 EY_{75}	15.9	X	195.81083	196.41241	183.46802	10.82446	0.0626583	0.18196108	3.0842557	21	4 11.1	20.5
321684 2010 EF_{84}	15.9	X	196.92731	194.42864	154.02535	3.57358	0.1707063	0.17347202	3.1840735	21	3 6.5	21.3
321685 2010 EN_{99}	16.6	X	4.97971	202.75360	155.33621	6.53705	0.0436609	0.21405259	2.7677215	21	10 24.8	20.2
321686 2010 EP_{102}	16.9	X	12.67043	62.09588	336.39748	1.65020	0.0336484	0.22778130	2.6553637	21	12 25.8	20.3
321687 2010 EX_{103}	16.4	X	351.37447	56.85631	186.14230	8.91869	0.0952036	0.18249954	3.0781861	21	4 29.6	20.2
321688 2010 EM_{104}	17.0	X	70.19611	119.04429	117.42689	6.91482	0.0625156	0.29267908	2.2466819	21	8 22.2	19.6
321689 2010 EF_{107}	16.8	X	310.44146	299.58743	181.28048	4.80082	0.0514442	0.23363564	2.6108183	21	—	—
321690 2010 EG_{108}	16.5	X	109.37612	253.48110	11.88447	3.78431	0.0657449	0.21911735	2.7249061	21	11 9.2	20.5
321691 2010 EW_{108}	16.2	X	114.30951	116.61077	125.21347	4.92890	0.0493894	0.21205912	2.7850398	21	10 17.3	20.2
321692 2010 EV_{110}	16.1	X	9.78063	258.32503	145.21031	5.36196	0.0519751	0.23078152	2.6322999	21	12 31.1	19.6
321693 2010 EY_{119}	15.9	X	302.82642	257.65154	334.57556	3.75062	0.1562253	0.17105256	3.2140280	21	1 31.1	20.5
321694 2010 EB_{121}	16.7	X	181.91675	61.93566	161.71215	1.83106	0.0342877	0.22419651	2.6835941	21	12 11.2	20.5
321695 2010 EQ_{123}	15.6	X	359.33723	84.37160	170.09656	9.23019	0.0600432	0.18914724	3.0056337	21	5 28.4	19.6
321696 2010 EA_{126}	15.4	X	359.10734	12.06948	191.72999	17.22195	0.1429244	0.17850262	3.1239661	21	3 15.4	19.2
321697 2010 EV_{136}	16.0	X	263.55782	197.87957	74.35231	3.02608	0.0690050	0.17234788	3.1979040	21	2 14.9	20.8
321698 2010 EZ_{136}	16.6	X	196.21767	199.33377	347.36455	2.38221	0.1313443	0.22090067	2.7102209	21	11 2.3	20.6
321699 2010 EO_{140}	15.7	X	13.11621	118.28488	120.03996	9.87972	0.0753572	0.18879205	3.0094023	21	5 28.6	19.6
321700 2010 FO_{1}	15.6	X	261.62409	207.95606	129.53817	6.09690	0.0610076	0.18943340	3.0026060	21	5 3.3	20.0
321701 2010 FV_{10}	16.2	X	8.39731	308.10124	30.44762	5.65376	0.0826662	0.21472888	2.7619072	21	10 6.0	19.4
321702 2010 FX_{21}	16.8	X	99.05523	190.60486	66.14613	4.10064	0.0440904	0.21570351	2.7535813	21	10 17.1	20.6
321703 2010 FY_{90}	16.6	X	266.84031	41.92115	153.16876	4.93404	0.1489003	0.23700626	2.5860059	21	—	—
321704 2010 FP_{96}	16.4	X	4.67854	267.32613	7.44860	1.71500	0.0777530	0.19538541	2.9413134	21	7 1.5	20.0
321705 2010 FL_{100}	17.3	X	284.81925	176.04674	139.34599	2.95370	0.1335440	0.26871097	2.3783683	21	4 14.7	20.5
321706 2010 GA_{3}	12.7	X	312.08423	353.07371	309.98866	26.65066	0.0174827	0.08430587	5.1510707	21	5 31.5	19.8
321707 2010 GZ_{31}	17.6	X	98.61049	109.37238	146.49339	7.21576	0.1044415	0.29425101	2.2386734	21	11 2.4	20.7
321708 2010 GC_{98}	15.4	X	86.07181	259.26540	224.09554	11.12767	0.1120134	0.17785811	3.1315085	21	4 17.3	19.6
321709 2010 GR_{113}	16.7	X	235.20761	267.22735	220.03966	3.49041	0.0145210	0.21268352	2.7795862	21	10 15.8	20.4
321710 2010 GD_{117}	17.4	X	5.21778	214.98419	30.20132	1.79359	0.1381105	0.27136730	2.3628222	21	5 14.0	19.5
321711 2010 GF_{122}	16.6	X	246.99666	265.19524	51.78946	7.48695	0.1211437	0.26259970	2.4151266	21	3 9.6	20.2
321712 2010 GN_{124}	16.4	X	353.01797	261.98976	145.63114	6.73737	0.0383901	0.22143952	2.7058224	21	12 10.8	20.0
321713 2010 GM_{133}	15.6	X	187.25226	295.35264	107.67307	6.52161	0.1451146	0.17898520	3.1183484	21	5 2.5	20.7
321714 2010 GZ_{139}	16.0	X	239.55908	303.92673	194.18797	11.86675	0.1144275	0.21930402	2.7233596	21	10 23.5	19.7
321715 2010 GY_{144}	17.5	X	324.98279	105.35948	166.13197	6.40830	0.1036373	0.27011241	2.3701347	21	4 15.5	20.2
321716 2010 HX_{21}	13.6	X	231.57375	194.65505	209.75640	4.53435	0.0390262	0.08237442	5.2312780	21	6 23.1	20.7
321717 2010 HT_{77}	17.0	X	283.46946	253.13405	255.96788	0.99563	0.1014226	0.23171989	2.6251886	21	—	—
321718 2010 HU_{86}	16.6	X	121.41362	236.62072	188.75746	14.08225	0.1359998	0.23701770	2.5859227	21	3 15.0	20.3
321719 2010 JG_{84}	15.3	X	313.06974	261.98126	60.64729	13.34096	0.1019979	0.18775020	3.0205251	21	6 11.6	19.3
321720 2010 JA_{118}	17.5	X	152.36414	252.10055	51.83640	5.62565	0.2764081	0.22543250	2.6737795	21	—	—
321721 2010 JN_{147}	15.9	X	308.83839	147.36060	110.55259	3.10507	0.0755945	0.17091589	3.2157411	21	3 22.5	20.3
321722 2010 JH_{174}	15.7	X	156.84399	298.62212	94.50100	8.74249	0.0118527	0.16789528	3.2541961	21	3 16.6	20.5
321723 2010 KY_{44}	15.6	X	330.26494	204.91276	154.69940	16.63803	0.1224055	0.17948894	3.1125112	21	8 27.0	19.2
321724 2010 KM_{45}	16.4	X	195.85970	152.99715	157.33004	5.13483	0.2380760	0.22665217	2.6641753	21	1 15.5	21.1
321725 2010 KP_{47}	16.7	X	304.62903	113.99882	302.72995	9.16795	0.0742415	0.27759509	2.3273491	21	10 15.2	19.4
321726 2010 KJ_{50}	17.6	X	262.25634	86.96320	295.08720	2.07060	0.1884028	0.25594041	2.4568397	21	6 9.1	21.0
321727 2010 KN_{93}	17.4	X	258.87924	336.69358	43.94344	3.21350	0.1918937	0.25408422	2.4687906	21	6 2.9	21.1
321728 2010 KE_{127}	17.8	X	164.89582	52.91815	213.52635	1.78665	0.1684703	0.31017190	2.1613964	21	—	—
321729 2010 LJ_{1}	16.8	X	27.82078	356.43906	230.67019	5.74163	0.0838522	0.26841798	2.3800988	21	5 30.4	19.1
321730 2010 LQ_{4}	15.8	X	52.39208	159.52425	157.25134	8.00707	0.1835947	0.19048559	2.9915387	21	11 20.8	20.1
321731 2010 LQ_{50}	16.3	X	82.29998	142.46446	143.61277	4.79781	0.0826835	0.19005514	2.9960539	21	11 4.5	20.6
321732 2010 LY_{55}	16.6	X	340.84119	245.63090	125.56550	13.50002	0.1667377	0.27177120	2.3604805	21	10 25.7	18.9
321733 2010 LR_{61}	15.1	X	144.95751	14.64703	96.24910	12.06232	0.0474535	0.17932186	3.1144442	21	6 5.7	19.6
321734 2010 LC_{81}	17.2	X	11.11047	264.53160	135.17069	3.61206	0.1574612	0.28502717	2.2867141	21	—	—
321735 2010 LC_{99}	15.4	X	273.75329	278.55887	153.52533	26.46871	0.2716430	0.17259239	3.1948830	21	8 13.9	20.2
321736 2010 LM_{134}	16.2	X	301.54273	91.20201	230.31695	5.36515	0.1414117	0.25481742	2.4640526	21	5 14.9	19.3
321737 2010 ML_{23}	17.4	X	46.96963	23.51233	9.55233	3.30284	0.1458202	0.29185061	2.2509317	21	—	—
321738 2010 MB_{34}	17.1	X	98.01568	189.17351	206.07245	3.95976	0.0834950	0.21531900	2.7568585	21	1 2.4	20.7
321739 2010 MK_{39}	15.7	X	19.90929	190.68229	171.80691	11.44118	0.0814048	0.18836477	3.0139515	21	11 19.9	19.8
321740 2010 MN_{43}	16.1	X	60.12739	339.66810	299.84216	3.07036	0.1215797	0.18108361	3.0942112	21	10 1.6	20.4
321741 2010 MW_{53}	15.9	X	195.79435	188.53559	100.72445	16.89057	0.1231153	0.24417056	2.5351706	21	—	—
321742 2010 MH_{55}	16.0	X	200.96152	3.64354	342.50880	32.30962	0.1471031	0.23190231	2.6238117	21	3 1.6	20.1
321743 2010 MA_{67}	16.4	X	15.96663	263.36358	187.79171	14.97837	0.2266110	0.20347534	2.8628254	21	—	—
321744 2010 MM_{70}	16.5	X	152.42831	227.27519	243.47256	10.52498	0.2128297	0.24309400	2.5426498	21	6 20.9	20.8
321745 2010 MG_{89}	16.6	X	114.87945	120.60257	328.79381	10.86199	0.1675897	0.22878615	2.6475828	21	4 8.5	20.5
321746 2010 MW_{105}	16.7	X	75.13762	252.29816	177.46227	7.69147	0.2173085	0.21276395	2.7788857	21	1 31.0	19.8
321747 2010 MW_{106}	15.8	X	323.54136	242.52757	123.61666	6.68810	0.2005686	0.17256778	3.1951867	21	8 16.5	19.2
321748 2010 NU_{3}	17.8	X	81.91628	234.27873	109.56509	6.30891	0.1521738	0.29702660	2.2247053	21	—	—
321749 2010 NB_{7}	17.1	X	356.26099	252.27162	124.22389	10.05373	0.2414599	0.28017184	2.3130573	21	12 14.2	19.1
321750 2010 NE_{18}	16.7	X	138.66388	100.47490	211.75873	5.64079	0.0961910	0.20594209	2.8399192	21	—	—
321751 2010 NM_{18}	16.7	X	128.78914	187.69178	174.09923	9.73665	0.1485689	0.21378083	2.7700666	21	1 8.9	20.7
321752 2010 NK_{19}	16.1	X	173.49298	102.84520	283.10108	11.66020	0.2077163	0.22929431	2.6436697	21	3 20.4	20.8
321753 2010 NY_{32}	17.0	X	119.98341	241.62703	131.94554	1.11015	0.0859113	0.21380848	2.7698277	21	1 5.1	20.8
321754 2010 NS_{38}	15.4	X	13.84989	78.64523	260.38375	7.77218	0.0372783	0.17876038	3.1209624	21	10 1.1	19.8
321755 2010 NY_{81}	17.5	X	309.11394	123.41233	247.97760	5.76299	0.2209129	0.26783807	2.3835330	21	7 26.3	19.7
321756 2010 NK_{85}	15.6	X	12.74373	112.36646	154.36773	11.02244	0.0763227	0.19320802	2.9633704	21	7 2.9	19.5
321757 2010 NZ_{97}	16.9	X	165.07952	105.81554	293.58979	7.57963	0.0595703	0.23059131	2.6337473	21	3 21.7	20.8
321758 2010 NT_{101}	17.3	X	116.32278	183.78863	151.77173	5.32275	0.1949780	0.29669104	2.2263824	21	—	—
321759 2010 NZ_{102}	16.5	X	106.77187	304.53853	77.47627	5.83906	0.1308896	0.21132153	2.7915166	21	1 6.1	20.0
321760 2010 NY_{103}	16.6	X	120.08116	193.30333	179.16681	6.71845	0.1294021	0.21275570	2.7789576	21	1 9.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321761 2010 NG_{108}	16.7	X	148.40052	119.82978	228.02098	4.09209	0.1356962	0.21509751	2.7587507	21	1 12.0	20.8
321762 2010 NO_{109}	15.9	X	281.23504	255.33822	180.39892	16.07653	0.1909738	0.17299493	3.1899250	21	9 8.2	20.3
321763 2010 NR_{116}	15.3	X	357.31852	225.46490	116.94425	10.60460	0.0964164	0.17473862	3.1686683	21	9 22.7	19.4
321764 2010 OL_{10}	16.1	X	197.79169	59.48379	347.05612	22.57341	0.2260966	0.23737627	2.5833178	21	4 29.3	21.0
321765 2010 OE_{19}	15.6	X	332.58990	243.84923	161.21640	11.47114	0.1161846	0.18094689	3.0957697	21	11 3.3	19.5
321766 2010 OR_{19}	17.8	X	260.52338	5.65848	194.36568	6.98687	0.0324962	0.29525965	2.2335721	21	—	—
321767 2010 OS_{19}	15.8	X	329.74412	6.17914	17.62751	9.28994	0.1607950	0.17537777	3.1609650	21	9 26.5	19.3
321768 2010 OM_{30}	15.9	X	74.74583	163.60549	134.48252	2.82377	0.2296512	0.18742667	3.0240000	21	11 26.4	20.5
321769 2010 OR_{30}	16.2	X	152.31534	257.01766	111.20218	13.85631	0.2125455	0.21935522	2.7229358	21	2 19.6	20.7
321770 2010 OJ_{32}	16.2	X	194.60982	319.68094	37.48672	11.63823	0.1769555	0.22818457	2.6522342	21	3 14.3	20.7
321771 2010 OC_{47}	15.0	X	176.12373	343.60139	333.05182	2.80461	0.2569605	0.12552285	3.9505193	21	1 22.1	21.6
321772 2010 OF_{53}	17.0	X	128.27722	128.27941	264.73091	4.60419	0.0808668	0.21766639	2.7370021	21	2 5.5	20.7
321773 2010 OG_{56}	16.8	X	98.77656	156.58008	258.21493	3.20087	0.0697844	0.21500430	2.7595480	21	1 26.0	20.3
321774 2010 OM_{61}	16.4	X	103.37675	227.66920	180.07402	14.11164	0.2384736	0.21285805	2.7780667	21	2 15.9	20.2
321775 2010 OZ_{74}	16.1	X	290.22365	237.04993	203.67389	13.35863	0.1717722	0.17537141	3.1610414	21	9 30.4	20.3
321776 2010 OA_{78}	15.8	X	342.05120	216.87468	134.38891	6.71120	0.1817433	0.17168477	3.2061330	21	9 3.9	19.2
321777 2010 OT_{79}	16.2	X	57.19666	351.42740	184.09222	5.76973	0.1057488	0.18141746	3.0904140	21	5 15.2	20.2
321778 2010 OQ_{81}	16.3	X	355.72249	280.03571	116.29839	5.36647	0.1978370	0.18323882	3.0699011	21	12 4.5	19.6
321779 2010 OT_{82}	15.4	X	0.27491	356.73396	21.82881	24.19132	0.1682365	0.18152947	3.0891426	21	11 7.7	19.2
321780 2010 OM_{84}	16.2	X	359.12959	201.67616	183.03840	4.73657	0.1283121	0.18224064	3.0811007	21	11 19.1	19.9
321781 2010 ON_{84}	16.5	X	245.64028	166.66693	181.70729	12.52722	0.2023215	0.23905666	2.5711978	21	4 10.9	20.6
321782 2010 OQ_{86}	15.4	X	305.65526	254.83157	37.16995	15.09118	0.0725404	0.17852309	3.1237273	21	4 27.9	19.5
321783 2010 OR_{91}	15.5	X	356.98785	215.04781	180.45099	10.82062	0.0430765	0.18425043	3.0586542	21	11 24.7	19.7
321784 2010 OH_{96}	17.0	X	141.57492	91.82492	304.22592	4.31744	0.0529583	0.22095194	2.7098016	21	2 21.4	20.8
321785 2010 OJ_{97}	16.9	X	203.20800	229.90856	168.92219	10.96869	0.1304477	0.23685548	2.5871032	21	5 9.3	21.1
321786 2010 OZ_{97}	16.4	X	29.13486	58.95964	164.07713	8.19056	0.0951520	0.18383806	3.0632265	21	6 2.8	20.3
321787 2010 ON_{98}	16.1	X	69.86898	3.88852	46.50123	18.52042	0.1429101	0.20550145	2.8439773	21	—	—
321788 2010 OW_{105}	15.9	X	218.54260	339.90276	37.29421	14.43061	0.2847851	0.23731107	2.5837910	21	4 20.4	20.5
321789 2010 OT_{106}	17.0	X	249.04576	4.95714	353.25412	7.45754	0.1645858	0.24091837	2.5579346	21	4 25.4	21.1
321790 2010 OT_{122}	16.9	X	99.65431	226.62355	179.95247	5.45594	0.0363996	0.21224700	2.7833961	21	1 12.8	20.7
321791 2010 OK_{125}	17.1	X	82.92622	235.20074	153.11469	6.49122	0.1987022	0.20365350	2.8611556	21	—	—
321792 2010 PS_{1}	16.8	X	282.38655	162.96595	152.03800	2.53198	0.1885635	0.25330937	2.4738225	21	4 4.9	20.4
321793 2010 PZ_{23}	17.2	X	49.23485	268.12231	323.62258	18.57561	0.0389423	0.35298655	1.9828838	21	7 13.0	19.3
321794 2010 PW_{32}	15.6	X	333.13906	39.33525	1.34679	15.72689	0.0736132	0.17791227	3.1308730	21	10 21.4	19.8
321795 2010 PN_{51}	16.2	X	213.61924	167.33470	194.54384	5.26653	0.2975585	0.23340533	2.6125355	21	3 28.4	20.9
321796 2010 PO_{54}	16.1	X	13.27381	33.45045	203.12328	11.92114	0.1267051	0.23952258	2.5678623	21	5 22.3	18.8
321797 2010 PA_{58}	16.9	X	134.39970	180.54855	196.39209	8.40957	0.1563697	0.21367414	2.7709886	21	2 2.3	21.1
321798 2010 PY_{60}	16.9	X	199.27210	131.16928	178.89224	2.48201	0.1316357	0.22531873	2.6746760	21	1 14.9	21.2
321799 2010 PA_{61}	17.2	X	167.11472	258.41950	172.33243	1.86113	0.0540717	0.24513733	2.5285007	21	5 7.2	20.5
321800 2010 PG_{62}	17.6	X	302.50988	19.38493	346.98133	5.29105	0.0749403	0.26273253	2.4143125	21	8 2.9	20.4
321801 2010 PA_{67}	15.7	X	244.80847	332.85218	6.59756	15.01588	0.2020448	0.23591643	2.5939639	21	3 28.8	19.8
321802 2010 PA_{71}	15.3	X	17.07075	253.97837	104.06931	24.61472	0.2179229	0.18149773	3.0895027	21	11 30.7	19.3
321803 2010 PZ_{71}	15.8	X	4.96087	227.76575	178.59433	8.41657	0.2475124	0.18566350	3.0431149	21	—	—
321804 2010 PM_{72}	15.0	X	329.91906	342.22334	75.08103	23.96409	0.1508672	0.17982542	3.1086273	21	11 16.2	18.7
321805 2010 PX_{72}	15.3	X	351.04246	295.82363	64.22318	28.36583	0.1867414	0.17461270	3.1701915	21	10 20.3	19.3
321806 2010 PA_{76}	17.8	X	93.69034	149.72466	203.77851	1.90873	0.1796391	0.29842218	2.2177639	21	—	—
321807 2010 PG_{80}	17.3	X	359.88573	257.83431	168.89531	3.74894	0.1300274	0.28861345	2.2677317	21	—	—
321808 2010 RN_{3}	17.3	X	50.88946	304.16554	350.30296	20.63899	0.0777929	0.36299801	1.9462557	21	10 18.7	19.7
321809 2010 RP_{3}	18.0	X	6.49806	332.37631	80.83673	2.77247	0.1482112	0.28776454	2.2721894	21	—	—
321810 2010 RK_{4}	17.2	X	107.80232	21.88580	21.59705	5.32131	0.1660824	0.21985539	2.7188045	21	2 8.7	20.8
321811 2010 RJ_{9}	16.8	X	251.22754	207.89260	203.31073	4.18065	0.1860725	0.25797786	2.4438868	21	7 5.8	20.3
321812 2010 RH_{11}	17.3	X	304.16242	156.26668	197.08503	7.26820	0.0959187	0.25767648	2.4457920	21	7 10.8	20.3
321813 2010 RD_{14}	17.0	X	302.68993	171.41113	180.91962	2.10943	0.2211291	0.25859269	2.4400116	21	6 16.7	19.6
321814 2010 RP_{14}	17.3	X	339.45299	206.51587	160.18716	8.00857	0.2135423	0.26952751	2.3735624	21	10 11.0	18.8
321815 2010 RS_{14}	15.8	X	60.72313	271.40011	174.96487	24.37614	0.1969085	0.21327767	2.7744216	21	1 23.1	19.2
321816 2010 RF_{33}	15.7	X	304.56737	40.78461	351.61274	8.28892	0.2343863	0.17240375	3.1972131	21	8 14.4	19.5
321817 2010 RJ_{36}	17.5	X	200.03079	195.81053	272.13470	2.65813	0.0896936	0.26248666	2.4158199	21	8 3.2	21.0
321818 2010 RB_{38}	17.0	X	164.73393	219.31139	152.68252	3.85830	0.1461609	0.22572432	2.6714711	21	2 26.9	21.0
321819 2010 RZ_{43}	17.3	X	0.93213	204.07934	131.14247	3.10462	0.2034379	0.26941349	2.3742320	21	10 10.6	19.1
321820 2010 RH_{46}	17.5	X	175.48305	56.30367	302.80902	1.04551	0.1070853	0.22611517	2.6683917	21	2 18.7	21.5
321821 2010 RT_{46}	17.4	X	65.94178	337.82463	330.05333	20.90855	0.0762212	0.37733863	1.8966267	21	12 13.5	20.0
321822 2010 RW_{46}	16.3	X	185.33436	80.31583	212.51931	4.32342	0.0314917	0.21220622	2.7837526	21	—	—
321823 2010 RZ_{46}	16.4	X	137.31586	96.94490	227.16940	3.28849	0.1013360	0.20860701	2.8156810	21	—	—
321824 2010 RE_{47}	17.5	X	147.04948	83.80333	327.68288	3.24720	0.1629548	0.22869635	2.6482759	21	3 29.7	21.5
321825 2010 RZ_{49}	17.4	X	279.19620	296.25430	184.55209	5.82489	0.0812961	0.27964230	2.3159764	21	12 11.0	20.0
321826 2010 RO_{59}	17.7	X	79.82731	123.61046	211.96545	5.62677	0.1441625	0.28864354	2.2675741	21	—	—
321827 2010 RN_{60}	16.4	X	115.95004	98.79594	356.22863	7.19381	0.1709695	0.22881369	2.6473704	21	4 20.5	20.2
321828 2010 RA_{66}	17.5	X	285.64522	220.84159	183.84358	2.06094	0.0650862	0.26379057	2.4078525	21	9 1.2	20.4
321829 2010 RB_{66}	17.3	X	143.80539	236.15102	181.75157	5.83063	0.1052720	0.22994594	2.6386729	21	3 30.0	21.0
321830 2010 RU_{71}	17.3	X	11.48235	352.30407	351.41122	6.50079	0.1488823	0.27466793	2.3438550	21	11 2.7	19.6
321831 2010 RX_{71}	16.7	X	135.92988	222.51390	183.05656	5.00175	0.1638521	0.22487146	2.6782215	21	3 12.2	20.7
321832 2010 RB_{75}	17.4	X	329.77750	165.15479	168.80585	6.05404	0.1140978	0.26134708	2.4228375	21	7 24.7	20.0
321833 2010 RZ_{77}	16.5	X	171.65416	213.37844	171.60753	17.34493	0.2382456	0.22944884	2.6424826	21	3 26.7	21.1
321834 2010 RK_{78}	17.3	X	261.72486	51.47951	348.98384	1.19555	0.1926769	0.25691907	2.4505966	21	7 3.2	20.8
321835 2010 RS_{96}	17.0	X	50.10573	296.41003	190.53775	9.21152	0.1685610	0.21926780	2.7236595	21	2 24.1	20.0
321836 2010 RD_{98}	16.8	X	266.40065	323.43966	195.15345	20.44285	0.1608227	0.28667937	2.2779198	21	—	—
321837 2010 RO_{102}	17.6	X	225.24828	269.74414	233.42481	2.79081	0.0952117	0.27194240	2.3594898	21	10 20.6	20.7
321838 2010 RY_{103}	17.4	X	107.42381	39.93545	208.81600	2.77208	0.0053238	0.27046830	2.3680551	21	10 18.5	20.3
321839 2010 RN_{104}	17.1	X	128.60993	89.21196	271.82904	1.20207	0.0279864	0.21207414	2.7849083	21	—	—
321840 2010 RX_{104}	17.0	X	78.56130	258.55228	202.97574	8.30391	0.1157443	0.22141875	2.7059916	21	3 2.6	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321841 2010 RP_{105}	16.9	X	52.50149	250.82385	201.89508	3.76938	0.0813018	0.21317368	2.7753238	21	1 10.2	20.3
321842 2010 RT_{105}	16.5	X	73.72426	330.25953	311.09176	0.27158	0.2561456	0.18444317	3.0565230	21	11 7.7	21.2
321843 2010 RY_{107}	16.8	X	76.37729	89.31332	15.29351	22.06186	0.0421558	0.22330624	2.6907219	21	3 6.2	20.6
321844 2010 RG_{110}	16.1	X	354.48673	214.84475	177.84582	12.45224	0.1318061	0.18442724	3.0566990	21	11 23.7	19.9
321845 2010 RX_{111}	17.6	X	236.95600	242.11807	133.07086	1.66066	0.0835781	0.24505654	2.5290564	21	5 14.6	21.2
321846 2010 RD_{113}	17.0	X	113.45592	100.11040	288.74293	5.17898	0.0530238	0.21571986	2.7534422	21	1 10.8	20.6
321847 2010 RN_{113}	17.6	X	115.87163	31.72738	292.41272	4.02331	0.1602896	0.29520512	2.2338472	21	—	—
321848 2010 RP_{116}	17.3	X	192.69024	29.26341	83.72369	3.68256	0.0941441	0.25360957	2.4718700	21	8 2.7	20.9
321849 2010 RG_{118}	16.6	X	242.38900	141.74236	137.88902	5.94807	0.1222296	0.22383196	2.6865070	21	1 19.4	20.7
321850 2010 RZ_{123}	16.6	X	147.25146	266.14350	178.04953	17.63411	0.2439047	0.23346270	2.6121075	21	5 19.4	21.3
321851 2010 RH_{124}	16.5	X	102.06346	47.59017	355.94639	13.16783	0.1358551	0.21470835	2.7620833	21	1 31.2	20.2
321852 2010 RR_{124}	17.3	X	191.02259	356.63582	152.96251	3.83988	0.0965149	0.26602052	2.3943775	21	9 19.3	20.7
321853 2010 RE_{128}	16.9	X	177.71451	345.75082	240.94281	6.30183	0.0649305	0.28563311	2.2834790	21	12 19.1	19.9
321854 2010 RD_{129}	16.4	X	165.39094	171.47612	204.91553	9.32268	0.1816931	0.22577895	2.6710402	21	3 4.6	20.8
321855 2010 RZ_{129}	16.5	X	76.84272	241.22999	101.03020	8.97700	0.1888836	0.29074491	2.2566349	21	—	—
321856 2010 RW_{134}	17.4	X	187.56925	236.80155	179.15526	4.38244	0.1569267	0.24047510	2.5610770	21	5 14.0	21.5
321857 2010 RX_{136}	16.4	X	194.86409	256.92094	38.21197	7.15177	0.0515135	0.21336980	2.7736229	21	—	—
321858 2010 RV_{140}	16.7	X	206.34600	293.82066	171.01167	13.77307	0.1382709	0.25955999	2.4339457	21	8 1.4	20.6
321859 2010 RR_{143}	16.4	X	271.23316	124.46988	309.42751	3.47596	0.1555953	0.17142203	3.2094082	21	8 29.5	20.9
321860 2010 RQ_{145}	17.2	X	283.88222	273.51666	342.85806	1.99081	0.0826012	0.22690620	2.6621865	21	2 7.3	20.8
321861 2010 RC_{149}	16.5	X	71.03515	327.42105	206.55136	6.08141	0.1369327	0.24408580	2.5357575	21	6 3.3	19.6
321862 2010 RS_{154}	16.4	X	11.88444	174.02421	298.43170	3.65162	0.0665932	0.20886139	2.8133943	21	—	—
321863 2010 RG_{155}	17.2	X	205.64839	246.16114	156.84266	6.17100	0.0911267	0.24126149	2.5555088	21	5 16.9	21.0
321864 2010 RN_{155}	17.1	X	356.26431	241.92438	108.92590	3.80827	0.2063260	0.26962881	2.3729679	21	10 26.2	18.8
321865 2010 RB_{157}	18.0	X	184.15407	209.33314	336.78131	6.10601	0.0465022	0.27740372	2.3284193	21	10 31.6	21.2
321866 2010 RH_{160}	17.6	X	292.11672	210.63545	199.84033	2.00663	0.1774653	0.26508596	2.4000018	21	9 2.0	20.2
321867 2010 RV_{164}	17.1	X	61.12961	218.94246	203.11513	7.73953	0.0850289	0.30036328	2.2081987	21	—	—
321868 2010 RG_{165}	17.1	X	3.53286	177.56801	152.85922	3.14673	0.2028561	0.26765416	2.3846247	21	10 7.7	18.9
321869 2010 RA_{166}	17.1	X	127.39081	188.35170	216.19127	5.32581	0.1823151	0.22131240	2.7068585	21	3 2.9	21.1
321870 2010 RN_{167}	16.5	X	127.52123	147.46308	210.27863	4.72308	0.1220224	0.21104749	2.7939326	21	—	—
321871 2010 RD_{170}	16.4	X	314.87130	107.05896	337.29551	11.70863	0.1769329	0.18586307	3.0409362	21	11 13.9	20.0
321872 2010 RP_{175}	17.0	X	101.65689	317.34896	106.23591	3.20385	0.0197524	0.22020229	2.7159483	21	2 3.3	20.7
321873 2010 RA_{177}	17.5	X	72.09651	115.98278	166.10467	3.04110	0.0683479	0.27287624	2.3541036	21	10 27.0	20.4
321874 2010 RC_{179}	17.6	X	341.32911	296.83261	25.64014	0.05998	0.2022074	0.26228323	2.4170689	21	7 24.9	19.4
321875 2010 SC_{5}	17.6	X	49.68291	239.58207	160.03866	5.85141	0.0712715	0.29300968	2.2449917	21	—	—
321876 2010 SG_{7}	17.4	X	219.89960	278.53864	190.30091	1.93071	0.1685335	0.26284752	2.4136083	21	8 20.1	21.0
321877 2010 SR_{11}	17.0	X	191.58936	313.17918	19.64777	3.47011	0.2415563	0.22550423	2.6732090	21	2 9.2	21.6
321878 2010 SN_{13}	17.0	X	161.22712	160.97920	195.40926	4.49705	0.1820881	0.22248960	2.6973020	21	2 6.6	21.2
321879 2010 SW_{13}	17.0	X	119.63236	340.73585	32.66694	2.64555	0.1710546	0.30469457	2.1872222	21	—	—
321880 2010 SS_{19}	17.0	X	73.36886	295.42636	200.89703	12.96643	0.1257116	0.23089457	2.6314406	21	4 13.6	20.1
321881 2010 SM_{23}	16.4	X	171.62837	76.35764	223.63120	3.21384	0.0837531	0.21223517	2.7834995	21	—	—
321882 2010 SP_{26}	17.3	X	120.71094	97.68765	206.68902	6.66434	0.1329143	0.29061308	2.2573173	21	—	—
321883 2010 SR_{26}	17.6	X	252.80630	243.28557	216.28190	3.27438	0.1328646	0.26432641	2.4045973	21	9 19.7	20.7
321884 2010 SZ_{26}	16.1	X	52.76895	160.61467	207.05107	10.15816	0.0200546	0.19357915	2.9595816	21	12 27.9	20.4
321885 2010 SG_{28}	17.4	X	160.59252	167.40154	8.87964	6.76410	0.0693032	0.26363595	2.4087938	21	9 21.0	20.8
321886 2010 SR_{28}	17.0	X	169.33543	350.51465	13.55157	6.37361	0.0455132	0.22315020	2.6919761	21	2 16.5	20.8
321887 2010 SL_{30}	17.5	X	93.54798	321.99295	33.41981	2.62816	0.0735829	0.29431454	2.2383512	21	—	—
321888 2010 SO_{32}	17.5	X	213.87765	254.59487	131.00848	5.65519	0.0729339	0.24167446	2.5525967	21	5 4.4	21.3
321889 2010 SJ_{35}	15.6	X	298.01041	44.05906	39.98436	16.03361	0.0483871	0.18132660	3.0914462	21	11 2.7	19.5
321890 2010 SH_{36}	16.5	X	184.42204	194.95609	199.47317	4.46505	0.1727227	0.23180975	2.6245101	21	4 14.1	20.8
321891 2010 SO_{36}	16.6	X	200.16363	328.73581	12.37361	6.30037	0.1754840	0.22714821	2.6602952	21	2 24.8	21.1
321892 2010 SO_{37}	16.0	X	333.02235	101.30461	295.05126	3.57966	0.1240966	0.17762295	3.1342719	21	10 17.5	19.8
321893 2010 SO_{39}	16.2	X	126.89436	128.47772	311.10771	12.33675	0.0617624	0.23123216	2.6288788	21	3 25.2	20.1
321894 2010 TB_{2}	16.4	X	164.00234	330.44129	33.44451	7.29491	0.0585201	0.22243989	2.6977038	21	2 12.2	20.3
321895 2010 TY_{3}	16.4	X	275.11694	102.94130	13.56189	10.01954	0.1841919	0.18215647	3.0820497	21	10 23.1	20.4
321896 2010 TM_{6}	17.9	X	304.78392	326.63210	173.38041	5.01812	0.0652370	0.29241806	2.2480187	21	—	—
321897 2010 TV_{6}	16.7	X	209.74307	349.64059	9.30454	10.38106	0.1244918	0.23299874	2.6155739	21	3 24.9	20.8
321898 2010 TW_{6}	17.3	X	48.41681	31.94149	277.57818	1.50436	0.2326460	0.27581567	2.3373483	21	11 25.8	20.3
321899 2010 TC_{7}	15.3	X	309.09392	204.86409	220.47687	16.15287	0.1262598	0.17639451	3.1488067	21	10 15.8	19.2
321900 2010 TR_{8}	18.0	X	232.48413	97.31266	339.76728	2.62801	0.1617513	0.25559313	2.4590646	21	7 23.8	21.7
321901 2010 TM_{9}	16.6	X	124.23351	312.94205	5.47938	1.82677	0.0609440	0.20308085	2.8665316	21	—	—
321902 2010 TE_{14}	17.2	X	282.68826	263.69759	222.95204	5.80290	0.0652066	0.28267943	2.2993579	21	12 26.5	19.7
321903 2010 TK_{15}	16.8	X	45.67246	80.56803	341.85720	8.55415	0.1269668	0.20441726	2.8540244	21	—	—
321904 2010 TF_{17}	17.7	X	121.11920	352.74682	271.27172	4.30026	0.1237271	0.28107317	2.3081098	21	12 3.2	21.0
321905 2010 TO_{22}	17.4	X	234.06231	87.20007	19.61413	6.39097	0.0495995	0.26469087	2.4023894	21	9 20.2	20.5
321906 2010 TD_{23}	17.8	X	149.66370	128.94365	189.21641	4.99768	0.0576421	0.29996566	2.2101497	21	—	—
321907 2010 TY_{23}	17.3	X	211.93047	11.77574	181.18577	5.21802	0.0986665	0.28186386	2.3037912	21	12 11.8	20.4
321908 2010 TP_{24}	15.8	X	321.64430	145.49723	296.01474	8.19239	0.0801049	0.18727533	3.0256289	21	11 30.8	19.8
321909 2010 TS_{24}	16.9	X	26.45675	32.50286	267.16372	7.33123	0.1745021	0.26702416	2.3883740	21	9 25.4	19.5
321910 2010 TJ_{28}	17.3	X	146.23948	232.10744	246.54905	3.33626	0.1058349	0.24559022	2.5253912	21	6 18.9	20.9
321911 2010 TG_{33}	16.9	X	75.83545	244.65509	186.15182	3.59730	0.0797188	0.21388771	2.7691437	21	1 16.2	20.3
321912 2010 TU_{35}	15.9	X	240.46160	115.58692	27.69379	27.32864	0.1489132	0.18052758	3.1005614	21	10 20.8	20.5
321913 2010 TV_{37}	15.9	X	339.31915	43.45812	17.60877	10.65116	0.0849337	0.18641241	3.0349590	21	11 29.6	19.9
321914 2010 TF_{39}	16.1	X	312.54926	106.66247	311.17276	10.94888	0.0638741	0.17515450	3.1636507	21	10 12.7	20.6
321915 2010 TK_{41}	17.1	X	83.36598	288.95699	210.10061	10.70304	0.1372352	0.23166677	2.6255898	21	5 4.8	20.4
321916 2010 TA_{45}	17.5	X	246.35613	271.30265	250.57711	1.21931	0.1381511	0.27933841	2.3176558	21	12 8.6	20.2
321917 2010 TH_{45}	17.7	X	96.51700	53.07633	207.47049	6.09138	0.0720322	0.27080616	2.3660851	21	10 28.2	20.8
321918 2010 TW_{55}	16.4	X	182.71796	315.49449	237.26751	5.77181	0.0642102	0.27333998	2.3514402	21	11 7.9	19.6
321919 2010 TQ_{58}	16.8	X	162.29083	27.81083	334.30956	5.74157	0.0281900	0.22074399	2.7115032	21	2 2.9	20.6
321920 2010 TY_{59}	17.2	X	14.93725	310.06928	13.98248	2.81810	0.2036561	0.27228975	2.3574827	21	10 21.2	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
321921 2010 TR_{72}	16.6	X	84.57822	78.79772	340.57664	12.50297	0.2052979	0.21260009	2.7803134	21	2 4.8	20.0
321922 2010 TS_{76}	17.0	X	133.51920	106.63860	218.93167	6.48807	0.0839490	0.29696594	2.2250082	21	—	—
321923 2010 TO_{79}	17.8	X	198.06224	43.26714	154.61183	3.01315	0.0846140	0.27948630	2.3168382	21	12 2.8	20.8
321924 2010 TR_{80}	16.6	X	141.47001	85.53593	7.96421	5.16762	0.1610957	0.23221768	2.6214356	21	5 15.6	20.8
321925 2010 TW_{80}	17.3	X	4.16054	149.14659	196.27855	7.14403	0.2314792	0.26918372	2.3755829	21	11 7.2	19.2
321926 2010 TA_{81}	15.9	X	339.64058	323.20436	58.84637	10.27655	0.2206963	0.17563710	3.1578528	21	10 14.6	19.1
321927 2010 TX_{81}	16.1	X	5.22426	254.75538	220.53052	14.14717	0.1084959	0.20452806	2.8529935	21	—	—
321928 2010 TA_{88}	17.7	X	165.39403	250.15701	21.89774	8.02513	0.1031394	0.29452692	2.2372751	21	—	—
321929 2010 TG_{91}	16.9	X	131.61417	7.17651	17.76961	6.61837	0.0391578	0.21962553	2.7207011	21	1 28.1	20.7
321930 2010 TL_{98}	15.9	X	174.42577	149.25836	18.61541	6.76945	0.1731277	0.17452402	3.1712653	21	9 17.6	21.1
321931 2010 TC_{99}	16.7	X	256.39019	71.93969	184.53845	8.46416	0.0493400	0.22053198	2.7132407	21	1 10.1	20.7
321932 2010 TQ_{99}	17.4	X	217.91571	73.86675	24.63364	6.44735	0.1558712	0.25589466	2.4571325	21	8 8.5	21.2
321933 2010 TV_{99}	17.2	X	255.74356	145.39952	144.25225	2.70132	0.0944447	0.22991301	2.6389248	21	2 15.2	20.8
321934 2010 TW_{108}	17.9	X	254.44365	57.30818	102.45302	2.57708	0.1629798	0.28252676	2.3001862	21	12 14.6	20.2
321935 2010 TM_{111}	16.6	X	55.46653	198.35027	218.22427	1.31424	0.0542539	0.20609709	2.8384951	21	—	—
321936 2010 TP_{117}	17.3	X	115.97524	329.15335	155.79495	4.30138	0.1833972	0.23406460	2.6076275	21	6 2.9	21.2
321937 2010 TQ_{118}	16.7	X	26.53887	101.52888	39.84325	9.63801	0.1179577	0.21723013	2.7406653	21	2 5.9	19.9
321938 2010 TQ_{124}	17.4	X	47.85564	231.74139	125.14865	4.48189	0.0368683	0.28300944	2.2975701	21	12 31.4	20.3
321939 2010 TR_{129}	17.3	X	9.48891	196.50052	163.89176	6.62103	0.1268921	0.27385857	2.3484707	21	11 24.6	19.8
321940 2010 TT_{129}	17.0	X	187.97469	231.02667	147.25572	6.30454	0.2161782	0.23144171	2.6272917	21	3 31.3	21.5
321941 2010 TX_{129}	16.8	X	160.44601	249.99480	129.11643	5.21172	0.1675855	0.22423886	2.6832562	21	3 6.4	21.1
321942 2010 TJ_{138}	16.8	X	85.21883	138.04044	281.61735	3.27923	0.0556196	0.21227867	2.7831192	21	1 13.4	20.4
321943 2010 TO_{142}	16.3	X	324.95908	263.40912	267.95612	5.91505	0.2474353	0.20474263	2.8509999	21	—	—
321944 2010 TF_{151}	16.9	X	12.34699	62.56731	340.22612	8.72466	0.1821428	0.19038024	2.9926423	21	—	—
321945 2010 TC_{162}	15.2	X	263.69165	64.69862	44.20248	26.29311	0.1839601	0.17351103	3.1835963	21	10 11.1	20.0
321946 2010 TD_{162}	15.8	X	348.31275	304.45847	76.51785	6.95025	0.1362938	0.17740016	3.1368955	21	10 27.9	19.5
321947 2010 TQ_{163}	16.1	X	263.18915	67.09280	255.47384	8.82840	0.0302067	0.23641701	2.5903010	21	4 9.7	19.7
321948 2010 TZ_{166}	17.9	X	144.79318	225.70725	109.05066	1.98164	0.2093616	0.30338370	2.1935181	21	—	—
321949 2010 TT_{167}	17.2	X	31.53714	314.57282	16.87527	6.63410	0.1306349	0.27215240	2.3582758	21	11 15.0	19.9
321950 2010 TJ_{170}	17.4	X	176.60714	47.93168	267.08046	4.45223	0.2466350	0.30834958	2.1699038	21	—	—
321951 2010 TD_{175}	17.2	X	357.82418	203.50015	143.15104	5.57974	0.1505771	0.27196441	2.3593625	21	10 17.1	19.3
321952 2010 TP_{180}	17.6	X	235.37192	279.50994	319.76204	4.10584	0.1048965	0.30229125	2.1987997	21	—	—
321953 2010 TZ_{180}	17.0	X	268.01109	156.66828	305.99077	6.31403	0.0608955	0.27306280	2.3530312	21	10 26.6	19.9
321954 2010 UR_{5}	16.4	X	194.74494	19.51307	350.04071	9.10688	0.0738710	0.22941158	2.6427687	21	3 21.1	20.3
321955 2010 UR_{6}	16.0	X	352.39911	52.95062	354.68749	8.92700	0.0760249	0.18632358	3.0359236	21	12 2.2	20.0
321956 2010 UA_{11}	16.2	X	273.31938	273.26836	52.68144	14.68816	0.2079662	0.23882421	2.5728659	21	4 12.7	20.2
321957 2010 UM_{12}	16.9	X	169.74144	92.98334	306.30480	2.01435	0.1068669	0.22930089	2.6436192	21	4 2.4	20.9
321958 2010 UO_{13}	16.6	X	124.35627	28.58619	357.42311	3.64451	0.0852468	0.21390464	2.7689976	21	1 26.9	20.3
321959 2010 UX_{13}	16.7	X	213.93185	86.86037	295.73155	0.74170	0.1837545	0.23463473	2.6034017	21	4 24.7	21.1
321960 2010 UB_{15}	17.5	X	100.14834	186.49628	179.24499	6.44796	0.0912696	0.29714844	2.2240971	21	—	—
321961 2010 UH_{16}	17.2	X	39.39041	148.63009	183.88834	5.32805	0.2602908	0.27635606	2.3343003	21	12 19.4	20.4
321962 2010 UK_{16}	16.9	X	222.62962	201.42443	160.49685	4.39620	0.2316545	0.23575995	2.5951115	21	4 6.7	21.3
321963 2010 UH_{17}	15.5	X	15.86153	290.92160	64.28813	10.09758	0.0900719	0.17489555	3.1667726	21	11 3.4	19.6
321964 2010 UD_{21}	15.5	X	343.44910	176.28871	235.48732	11.80352	0.0646209	0.17886962	3.1196916	21	11 24.5	19.4
321965 2010 UA_{23}	17.2	X	190.60373	339.22256	197.47548	1.03873	0.1267696	0.26649014	2.3915637	21	10 21.6	20.8
321966 2010 UD_{23}	17.0	X	124.10302	18.63371	42.10353	6.09123	0.0551414	0.22171130	2.7036107	21	3 7.5	20.7
321967 2010 UP_{27}	16.4	X	64.15909	163.77802	190.50317	1.31514	0.1650917	0.19043149	2.9921052	21	—	—
321968 2010 UL_{28}	16.5	X	313.26659	270.94907	212.53790	6.16710	0.1678717	0.18709748	3.0275460	21	—	—
321969 2010 UN_{28}	16.6	X	117.67332	277.18670	92.03840	3.30461	0.0805256	0.20561844	2.8428984	21	—	—
321970 2010 UZ_{28}	16.6	X	196.62876	43.09171	6.33873	3.58150	0.2288974	0.23625467	2.5914875	21	5 11.9	21.1
321971 2010 UR_{31}	17.9	X	268.20915	247.97243	157.78196	1.60044	0.1805834	0.25564601	2.4587254	21	7 19.9	21.1
321972 2010 UV_{31}	17.0	X	278.78595	206.06347	130.76300	2.66844	0.1590716	0.24544242	2.5264050	21	5 4.4	20.5
321973 2010 UA_{34}	16.5	X	137.63207	111.31476	265.56469	4.67582	0.0824810	0.21498388	2.7597227	21	1 28.6	20.4
321974 2010 UF_{34}	15.9	X	67.48047	228.66094	252.62673	8.05452	0.0976189	0.22018939	2.7160543	21	3 7.9	19.3
321975 2010 UC_{35}	16.6	X	66.38218	95.35498	303.05740	5.60919	0.0711905	0.20193281	2.8773860	21	—	—
321976 2010 UF_{38}	17.7	X	215.02140	18.57919	271.36447	2.43510	0.0408354	0.30630309	2.1795582	21	—	—
321977 2010 UO_{38}	15.9	X	118.06854	233.88753	218.32493	21.36727	0.0576060	0.22846004	2.6501018	21	4 3.4	19.7
321978 2010 UX_{40}	16.6	X	203.76761	109.58947	236.68105	5.39949	0.0680538	0.22318321	2.6917106	21	3 1.1	20.6
321979 2010 UM_{45}	16.6	X	136.48117	143.84278	291.21435	4.50780	0.1615743	0.22636108	2.6664588	21	4 16.6	20.6
321980 2010 UC_{46}	16.9	X	216.07984	30.75779	316.44642	5.50466	0.0572690	0.22538453	2.6741555	21	3 16.1	20.9
321981 2010 US_{53}	16.7	X	71.63656	82.26449	276.65063	3.89981	0.0961529	0.19418756	2.9533967	21	—	—
321982 2010 UC_{54}	17.2	X	160.67234	46.05329	331.67559	2.49518	0.0909227	0.22060913	2.7126082	21	2 25.6	21.0
321983 2010 US_{54}	15.5	X	346.46411	50.65603	38.04381	9.22770	0.1034908	0.18972331	2.9995464	21	—	—
321984 2010 UZ_{54}	15.6	X	324.42870	14.07765	308.53170	1.73987	0.3049323	0.16120907	3.3435647	21	6 1.6	19.4
321985 2010 UT_{55}	17.2	X	309.98990	192.10327	236.93805	2.68303	0.0346490	0.26854237	2.3793637	21	11 16.6	19.9
321986 2010 US_{58}	13.8	X	326.08869	160.12266	259.74191	6.87141	0.0230931	0.08238174	5.2309683	21	10 26.1	20.6
321987 2010 UT_{58}	13.3	X	284.87614	218.79208	254.82277	12.57668	0.0598053	0.08413437	5.1580681	21	11 3.2	20.1
321988 2010 UX_{59}	16.9	X	134.72306	184.28439	334.98984	0.94703	0.0631308	0.24220375	2.5488766	21	7 26.9	20.3
321989 2010 UB_{61}	15.4	X	204.05292	94.76676	43.68749	5.45421	0.1059491	0.17013052	3.2256301	21	9 12.9	20.5
321990 2010 UE_{63}	15.5	X	332.53915	149.49710	235.38992	18.20162	0.1307462	0.17305143	3.1892306	21	9 26.7	19.6
321991 2010 UM_{63}	16.2	X	288.64046	79.02193	5.94496	9.18743	0.1017402	0.17570282	3.1570653	21	10 13.4	20.3
321992 2010 UY_{65}	17.6	X	111.14262	285.84480	16.22215	1.22871	0.1649406	0.28446829	2.2897082	21	—	—
321993 2010 UG_{72}	16.1	X	157.43479	332.82279	49.83763	14.15761	0.1195531	0.22361444	2.6882490	21	3 10.2	20.4
321994 2010 UY_{74}	16.2	X	224.43431	38.78443	312.42208	6.64892	0.2056634	0.23386739	2.6090932	21	3 23.1	20.7
321995 2010 UQ_{75}	17.1	X	25.35742	9.81458	284.77151	5.19286	0.1328678	0.25772533	2.4454830	21	9 9.4	19.8
321996 2010 UY_{75}	16.1	X	252.87602	32.82332	269.89949	10.18407	0.0644604	0.22362175	2.6881904	21	2 26.5	20.2
321997 2010 UW_{76}	17.4	X	191.83775	169.51830	146.29396	5.61749	0.2287455	0.31036444	2.1605023	21	1 7.0	20.7
321998 2010 UX_{77}	17.0	X	207.74308	119.74054	305.05524	3.59587	0.1120059	0.23853943	2.5749132	21	6 14.2	21.0
321999 2010 UD_{78}	15.9	X	23.54000	58.02020	313.63320	7.75980	0.0573277	0.18420948	3.0591074	21	11 28.8	20.2
322000 2010 UL_{79}	16.7	X	203.35047	15.06606	351.04725	5.79429	0.2101487	0.23000497	2.6382214	21	3 26.2	21.3

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322001 2010 UZ_{79}	16.5	X	115.97102	75.69609	334.45481	5.83069	0.0353024	0.21475084	2.7617189	21	2 8.1	20.1
322002 2010 UK_{81}	15.1	X	269.03731	41.84829	37.47623	23.31610	0.1078494	0.16849981	3.2464081	21	9 22.7	20.0
322003 2010 UE_{82}	16.3	X	337.47441	188.32176	221.43343	4.45780	0.1545989	0.18003191	3.1062499	21	11 14.2	19.6
322004 2010 UM_{83}	16.3	X	251.07986	36.02571	256.72312	4.15883	0.0446810	0.22041604	2.7141922	21	2 17.5	20.1
322005 2010 UU_{83}	15.1	X	308.25458	341.83353	73.29138	20.28421	0.1152096	0.17128116	3.2111677	21	10 14.8	19.5
322006 2010 UA_{85}	17.2	X	183.07388	147.62797	177.72478	3.92871	0.1028433	0.21641330	2.7475572	21	1 17.4	21.3
322007 2010 UA_{92}	16.2	X	16.06806	257.43350	95.77873	2.88204	0.1793345	0.18005956	3.1059319	21	11 11.2	19.9
322008 2010 UC_{92}	17.1	X	257.15681	216.20055	118.33813	4.13753	0.1644805	0.23796734	2.5790384	21	4 8.5	21.0
322009 2010 UV_{92}	17.1	X	252.70414	128.08449	175.64558	2.20237	0.2683794	0.23313012	2.6145911	21	2 16.9	21.5
322010 2010 UX_{92}	16.7	X	124.37831	54.34581	311.39496	5.09513	0.0784082	0.20686075	2.8315050	21	1 1.8	20.6
322011 2010 UF_{93}	16.5	X	140.50529	158.06350	344.84538	4.81579	0.0965053	0.24177942	2.5518580	21	7 15.2	20.2
322012 2010 UQ_{93}	16.8	X	149.65451	274.11135	327.68790	5.68104	0.0736363	0.27321404	2.3521628	21	12 2.7	20.1
322013 2010 UC_{95}	16.6	X	226.82669	40.34298	331.69012	6.74889	0.2022448	0.23740135	2.5831359	21	4 19.4	21.0
322014 2010 UK_{95}	16.9	X	13.72284	200.34301	133.07543	4.79026	0.2230153	0.27068225	2.3668071	21	11 7.8	19.1
322015 2010 UU_{95}	16.2	X	357.67105	230.45505	189.87388	9.62533	0.1588826	0.18664658	3.0324201	21	—	—
322016 2010 UL_{98}	15.2	X	227.47121	117.55762	43.37536	27.39510	0.2274929	0.17303962	3.1893757	21	10 24.8	20.4
322017 2010 UY_{100}	15.5	X	319.74456	117.18714	305.10401	7.94688	0.0444644	0.17954257	3.1118914	21	11 1.7	19.9
322018 2010 UR_{101}	16.3	X	72.15780	203.10588	224.31931	5.04654	0.0223266	0.21166540	2.7884924	21	1 2.1	20.1
322019 2010 UO_{106}	15.7	X	310.54151	276.15933	139.32310	16.44323	0.2088355	0.17348389	3.1839283	21	10 1.7	19.5
322020 2010 VC_{11}	17.4	X	331.35964	219.72910	173.51219	2.58362	0.1850581	0.26722663	2.3871675	21	11 1.0	19.2
322021 2010 VE_{11}	15.9	X	45.75501	47.61826	306.46101	8.97370	0.0579589	0.18748382	3.0233854	21	12 7.2	20.2
322022 2010 VD_{12}	16.5	X	306.74883	243.87073	229.99212	3.31527	0.2193788	0.18310393	3.0714086	21	12 7.6	19.7
322023 2010 VH_{15}	16.5	X	119.01428	43.14057	13.21192	8.07426	0.0827167	0.21773137	2.7364575	21	2 27.9	20.2
322024 2010 VE_{17}	16.1	X	39.66384	187.07511	348.01049	2.26664	0.0330649	0.22460617	2.6803300	21	4 5.0	19.6
322025 2010 VW_{18}	17.1	X	198.29194	222.16974	76.15435	4.57416	0.2318446	0.30780368	2.1724686	21	—	—
322026 2010 VC_{19}	16.2	X	251.36879	51.07978	262.67882	4.92872	0.0464992	0.22157538	2.7047162	21	3 15.2	20.2
322027 2010 VF_{20}	15.5	X	356.72209	118.73893	255.46883	6.34194	0.0780841	0.17164912	3.2065770	21	10 24.9	19.6
322028 2010 VO_{20}	16.6	X	242.33459	244.11684	107.42786	7.87329	0.2143377	0.23720153	2.5845864	21	4 13.7	21.0
322029 2010 VC_{26}	16.6	X	287.38437	57.33117	95.86278	1.42296	0.1426611	0.18604312	3.0389739	21	—	—
322030 2010 VG_{26}	16.5	X	202.65788	250.98494	64.92247	6.80320	0.0742157	0.21198328	2.7857040	21	1 27.9	20.7
322031 2010 VZ_{26}	15.4	X	14.00519	127.22676	244.50770	10.78357	0.0813946	0.17634789	3.1493617	21	11 18.2	19.5
322032 2010 VB_{27}	16.4	X	102.03811	173.72916	192.87282	1.37315	0.0846345	0.19864502	2.9090483	21	—	—
322033 2010 VZ_{28}	16.6	X	0.49800	297.52002	110.52405	3.35159	0.1613906	0.18571172	3.0425882	21	12 24.3	20.0
322034 2010 VC_{30}	15.7	X	329.33157	170.62746	257.89907	11.00926	0.1780928	0.18110436	3.0939749	21	11 23.1	19.0
322035 2010 VK_{34}	15.5	X	19.14665	272.70458	57.74161	5.42871	0.1847218	0.17235551	3.1978096	21	10 17.9	19.2
322036 2010 VE_{36}	16.7	X	271.94897	72.31131	270.19571	0.54184	0.1882209	0.24044342	2.5613020	21	4 29.2	20.3
322037 2010 VH_{36}	16.5	X	209.16420	26.65311	298.79340	5.23525	0.0327494	0.22150501	2.7052891	21	2 10.9	20.3
322038 2010 VN_{37}	16.7	X	99.44645	319.90255	118.18425	4.56121	0.1741368	0.21640918	2.7475921	21	3 15.6	20.4
322039 2010 VO_{38}	16.4	X	101.93678	243.92244	196.54855	7.85030	0.1448342	0.21730757	2.7400142	21	3 14.1	20.1
322040 2010 VJ_{39}	16.3	X	127.14972	281.07387	104.51001	5.46576	0.0793053	0.21094952	2.7947976	21	1 29.1	20.1
322041 2010 VN_{39}	15.2	X	2.89803	153.31850	208.11144	9.49721	0.0328733	0.17176700	3.2051097	21	10 16.7	19.5
322042 2010 VZ_{45}	15.4	X	84.19135	47.62142	253.21479	8.18999	0.0544943	0.17831009	3.1262144	21	11 16.8	19.9
322043 2010 VG_{49}	16.9	X	182.95796	90.35382	308.83422	5.32875	0.0584242	0.23014706	2.6371354	21	4 12.5	20.8
322044 2010 VJ_{54}	15.7	X	337.17902	84.90093	346.57998	11.84503	0.1437001	0.18428405	3.0582822	21	12 11.7	19.5
322045 2010 VD_{55}	17.6	X	203.15317	166.36766	125.76841	2.08190	0.2009620	0.30491916	2.1861481	21	—	—
322046 2010 VT_{57}	16.2	X	229.13696	295.27523	36.70981	14.76510	0.2309020	0.22962609	2.6411226	21	3 13.4	20.9
322047 2010 VM_{58}	16.3	X	331.22515	133.87447	322.05172	7.86167	0.0539062	0.19062280	2.9901030	21	—	—
322048 2010 VE_{61}	15.4	X	242.93540	113.53614	28.27691	12.04384	0.0790398	0.17651008	3.1474321	21	10 29.1	19.9
322049 2010 VU_{61}	17.1	X	38.99593	287.01243	63.46778	3.45523	0.1912291	0.27771792	2.3266628	21	—	—
322050 2010 VD_{62}	16.2	X	234.05167	73.69379	261.19555	10.09393	0.2050012	0.23078324	2.6322868	21	3 9.6	20.8
322051 2010 VJ_{62}	14.8	X	242.49556	288.65848	260.05902	20.57490	0.1148030	0.18244155	3.0788383	21	12 20.3	19.2
322052 2010 VE_{65}	16.2	X	55.35339	14.37216	4.51292	4.76411	0.0380096	0.18953585	3.0015239	21	—	—
322053 2010 VE_{71}	17.3	X	7.37752	217.76727	129.68133	5.97793	0.1303746	0.26632306	2.3925638	21	11 2.1	19.8
322054 2010 VK_{73}	16.4	X	271.89194	191.57638	72.23141	6.08564	0.0710136	0.21943826	2.7222488	21	2 7.1	20.3
322055 2010 VS_{73}	17.1	X	146.87975	261.42571	184.09619	2.10183	0.0962239	0.23080073	2.6321538	21	5 7.3	20.8
322056 2010 VQ_{75}	15.7	X	355.25205	120.33764	284.35014	8.29303	0.0911524	0.18339505	3.0681574	21	12 4.4	19.6
322057 2010 VJ_{77}	15.6	X	303.18116	269.16953	179.32962	9.96601	0.1144576	0.17827700	3.1266013	21	11 10.5	19.6
322058 2010 VX_{78}	13.3	X	323.25903	9.64301	49.31172	12.81698	0.0588462	0.08518092	5.1157327	21	10 24.0	19.8
322059 2010 VC_{79}	17.2	X	50.35009	4.50903	90.02004	1.66862	0.0299289	0.20937564	2.8087858	21	1 9.1	20.8
322060 2010 VE_{79}	17.1	X	170.66745	152.14805	55.82225	6.68924	0.1488852	0.26859911	2.3790287	21	11 9.6	20.8
322061 2010 VH_{86}	16.5	X	174.73791	145.72866	229.73245	4.98723	0.0473805	0.22594160	2.6697581	21	3 4.1	20.4
322062 2010 VX_{87}	17.2	X	276.26935	48.59853	289.36888	2.39411	0.1373114	0.24001447	2.5643527	21	5 4.3	20.8
322063 2010 VO_{88}	16.6	X	290.28418	295.39273	7.76317	1.66174	0.0755010	0.23186152	2.6241194	21	4 16.1	19.8
322064 2010 VD_{91}	15.5	X	32.16040	310.04125	250.84130	12.13439	0.1191356	0.22584482	2.6705208	21	5 2.9	18.6
322065 2010 VH_{91}	16.3	X	143.94836	354.21927	348.94082	1.49374	0.0728580	0.20320717	2.8653435	21	—	—
322066 2010 VA_{94}	16.4	X	87.33204	154.17068	152.15925	1.60819	0.0821388	0.18316094	3.0707713	21	12 1.8	21.0
322067 2010 VM_{96}	17.0	X	210.35625	260.20649	91.51214	1.46880	0.1474427	0.22367030	2.6878013	21	3 17.4	21.2
322068 2010 VK_{98}	13.4	X	317.74140	188.51568	213.67908	3.73042	0.0657688	0.08260675	5.2214647	21	9 24.3	20.0
322069 2010 VR_{101}	17.6	X	328.44677	333.17282	223.81966	2.62509	0.0785562	0.30400669	2.1905203	21	—	—
322070 2010 VB_{107}	15.5	X	58.69927	78.14205	239.67904	8.36115	0.0473798	0.17635270	3.1493044	21	11 5.7	19.9
322071 2010 VU_{107}	13.2	X	266.74554	58.11596	62.43978	9.02470	0.1116754	0.08286080	5.2107868	21	10 19.4	20.1
322072 2010 VV_{111}	15.7	X	350.22262	289.11035	81.97498	10.93883	0.2424786	0.17563473	3.1578812	21	10 25.0	18.9
322073 2010 VW_{111}	15.9	X	355.89038	262.88354	193.53200	13.61335	0.2463868	0.18979050	2.9988384	21	—	—
322074 2010 VB_{112}	16.9	X	209.18405	137.19961	215.58311	2.79788	0.0935216	0.22496370	2.6774893	21	3 16.3	21.1
322075 2010 VO_{112}	16.7	X	134.59252	309.53221	160.04468	1.82173	0.1087139	0.23129380	2.6284117	21	5 25.9	20.6
322076 2010 VW_{112}	15.5	X	310.28761	266.55095	224.32913	9.41496	0.0599398	0.18977323	2.9990204	21	—	—
322077 2010 VC_{115}	16.3	X	59.37988	234.13720	119.27401	5.21336	0.1334414	0.18850672	3.0124382	21	—	—
322078 2010 VP_{116}	16.6	X	224.63629	26.82833	298.86168	4.05876	0.0211042	0.22099341	2.7094626	21	3 1.3	20.4
322079 2010 VE_{117}	16.6	X	25.31302	116.54582	343.14705	5.99482	0.0241052	0.20190983	2.8776043	21	—	—
322080 2010 VP_{117}	14.2	X	304.52085	87.14446	1.20849	7.00091	0.0633147	0.08366428	5.1773714	21	10 28.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322081 2010 VW_{117}	16.8	X	291.99677	267.40650	338.43832	4.56574	0.0371693	0.21615388	2.7497552	21	2 12.0	20.6
322082 2010 VP_{118}	16.0	X	304.66984	238.58377	278.88561	7.63875	0.0904485	0.19325777	2.9628619	21	—	—
322083 2010 VC_{121}	16.7	X	311.39353	119.19164	103.13133	4.74461	0.0362118	0.21375160	2.7703191	21	2 7.8	20.4
322084 2010 VS_{121}	16.0	X	39.88197	28.03064	307.41825	4.39088	0.1402500	0.17994711	3.1072257	21	11 16.4	20.2
322085 2010 VL_{122}	16.8	X	322.24490	261.53778	314.66190	4.46639	0.0555668	0.21789230	2.7351099	21	2 9.2	20.4
322086 2010 VM_{123}	16.4	X	131.99088	137.37215	250.74128	5.95165	0.0609093	0.21409879	2.7673233	21	2 1.2	20.3
322087 2010 VQ_{123}	15.2	X	352.92503	322.77947	41.33033	15.05473	0.0591341	0.17241377	3.1970892	21	10 12.3	19.5
322088 2010 VX_{126}	16.7	X	140.50882	178.87406	182.98593	5.85582	0.0311263	0.20884490	2.8135424	21	1 8.4	20.6
322089 2010 VK_{127}	16.6	X	40.25824	335.44899	95.93062	3.22481	0.0983918	0.19574367	2.9377233	21	—	—
322090 2010 VJ_{129}	16.7	X	245.96204	183.11267	118.58516	4.24826	0.1706419	0.22621837	2.6675801	21	2 16.3	20.9
322091 2010 VF_{130}	15.3	X	301.61672	229.07210	242.05500	12.41139	0.1189258	0.18264500	3.0765515	21	12 5.1	19.0
322092 2010 VO_{132}	15.8	X	251.98798	276.82871	230.91881	9.45493	0.1015950	0.18162107	3.0881039	21	11 14.7	20.0
322093 2010 VH_{133}	15.8	X	353.57115	1.92244	55.29290	4.03694	0.0945205	0.18447715	3.0561476	21	12 18.4	19.6
322094 2010 VW_{133}	16.6	X	109.89552	217.45062	182.87890	9.80610	0.1151787	0.21248978	2.7812756	21	1 28.1	20.4
322095 2010 VZ_{134}	16.5	X	293.11161	238.93138	216.97228	4.98060	0.1402089	0.17723522	3.1388413	21	10 30.3	20.5
322096 2010 VM_{135}	16.4	X	130.02032	110.82353	227.17714	5.69397	0.0729708	0.20149739	2.8815297	21	—	—
322097 2010 VR_{137}	15.8	X	238.90009	164.50183	191.88606	14.24980	0.2247774	0.23557581	2.5964637	21	4 13.2	20.1
322098 2010 VD_{138}	15.7	X	178.86310	293.46318	284.11628	7.57390	0.0598386	0.17826930	3.1266913	21	11 19.9	20.5
322099 2010 VP_{138}	16.1	X	323.75537	308.86361	166.96599	8.18723	0.1965383	0.18915606	3.0055402	21	—	—
322100 2010 VP_{140}	17.2	X	144.71365	259.66821	172.47521	3.73931	0.0662923	0.22659157	2.6646502	21	4 15.1	21.0
322101 2010 VC_{142}	17.4	X	238.66195	114.08802	125.02488	4.18110	0.0746762	0.29580357	2.2308333	21	—	—
322102 2010 VR_{143}	16.5	X	280.85910	136.39405	102.41064	6.68402	0.1230965	0.21402704	2.7679418	21	1 10.9	20.6
322103 2010 VZ_{143}	16.5	X	197.59556	253.63019	99.11285	6.86136	0.0160339	0.22180373	2.7028596	21	3 7.2	20.3
322104 2010 VL_{145}	16.8	X	141.90875	176.50769	96.71807	7.19451	0.0907221	0.28151013	2.3057207	21	—	—
322105 2010 VN_{146}	15.5	X	43.65295	251.85104	74.45378	11.46337	0.0284261	0.17586373	3.1551393	21	10 30.3	20.0
322106 2010 VM_{151}	16.5	X	216.77360	222.96618	165.44318	4.36915	0.1535845	0.23603024	2.5931300	21	5 7.2	20.6
322107 2010 VC_{152}	17.6	X	126.93592	209.65022	147.81744	3.85936	0.1515650	0.30013461	2.2093202	21	—	—
322108 2010 VF_{152}	17.5	X	160.74911	129.88113	204.46837	4.06301	0.2075910	0.30135298	2.2033613	21	—	—
322109 2010 VV_{152}	17.3	X	156.76075	143.29123	85.75071	4.17549	0.0837836	0.26982753	2.3718026	21	11 24.8	20.5
322110 2010 VJ_{153}	15.6	X	261.97629	293.09213	51.04321	10.16273	0.2243437	0.23782010	2.5801028	21	4 19.9	19.6
322111 2010 VZ_{158}	16.6	X	154.02935	218.36541	131.51150	7.18096	0.0504088	0.20956986	2.8070502	21	1 12.6	20.6
322112 2010 VB_{159}	17.0	X	78.92941	127.52518	194.49826	9.76630	0.1923202	0.28004896	2.3137339	21	—	—
322113 2010 VM_{159}	16.7	X	146.93920	271.09101	169.22136	4.71680	0.0852813	0.22761107	2.6566874	21	4 30.7	20.5
322114 2010 VR_{161}	15.8	X	36.74387	102.76287	243.11266	12.63101	0.0531308	0.17841676	3.1249683	21	11 13.6	20.0
322115 2010 VD_{162}	17.7	X	195.59189	237.69022	44.95651	6.00497	0.1786245	0.29932546	2.2132999	21	—	—
322116 2010 VH_{162}	17.7	X	180.32539	258.69586	19.44219	4.23004	0.1310671	0.29131611	2.2536842	21	—	—
322117 2010 VN_{162}	15.8	X	248.55020	107.21257	40.50607	10.31451	0.0580451	0.17789043	3.1311293	21	11 14.9	20.2
322118 2010 VJ_{165}	16.9	X	175.43558	34.74827	31.07979	3.16372	0.0366167	0.23089231	2.6314578	21	5 9.9	20.5
322119 2010 VT_{166}	17.2	X	180.16942	23.87784	61.87970	2.46675	0.1007642	0.23921544	2.5700599	21	6 12.4	21.1
322120 2010 VS_{168}	16.0	X	244.26856	340.57687	65.82121	2.51246	0.1462125	0.15251189	3.4695002	21	6 27.6	21.2
322121 2010 VY_{168}	17.5	X	88.26145	44.22344	228.64023	1.17951	0.1759131	0.26559008	2.3969638	21	11 13.4	20.9
322122 2010 VC_{170}	16.0	X	311.47306	235.90328	246.44574	4.63127	0.1650420	0.18481566	3.0524147	21	—	—
322123 2010 VF_{171}	15.7	X	145.54797	214.38722	65.06324	10.73829	0.0652017	0.18659007	3.0330323	21	12 30.1	20.4
322124 2010 VH_{171}	16.9	X	292.05415	274.54172	42.72616	0.62745	0.1973474	0.23891474	2.5722159	21	4 18.7	20.3
322125 2010 VY_{173}	17.3	X	192.78276	345.34544	312.98504	2.28208	0.1728160	0.30263169	2.1971504	21	—	—
322126 2010 VM_{177}	15.9	X	58.40837	269.34677	46.21090	3.39339	0.0854038	0.17759613	3.1345875	21	11 8.8	20.3
322127 2010 VQ_{178}	17.1	X	29.72180	22.31978	214.60481	0.22712	0.0715274	0.23985693	2.5654755	21	6 17.6	19.9
322128 2010 VW_{178}	16.8	X	92.75302	256.58541	245.81052	1.65131	0.0759492	0.22935248	2.6432227	21	5 12.2	20.2
322129 2010 VZ_{181}	15.5	X	322.99402	189.34615	241.04478	9.61595	0.0701423	0.17736678	3.1372890	21	11 17.8	19.5
322130 2010 VC_{182}	16.0	X	253.66070	288.26353	237.43073	4.88600	0.1051808	0.18138543	3.0907778	21	12 7.9	20.3
322131 2010 VL_{182}	15.5	X	345.10402	300.70520	113.03655	11.72118	0.1477332	0.18178732	3.0862208	21	12 5.1	19.1
322132 2010 VP_{182}	16.1	X	243.16382	355.34975	265.27641	8.20257	0.1177964	0.21434294	2.7652215	21	—	—
322133 2010 VU_{182}	16.3	X	89.87862	61.52032	20.83072	16.00935	0.1796570	0.21466346	2.7624683	21	3 13.5	19.9
322134 2010 VS_{183}	16.0	X	254.27397	250.99889	105.62807	15.36991	0.0434874	0.23730579	2.5838294	21	5 20.5	19.7
322135 2010 VX_{184}	16.3	X	250.83895	249.76317	59.60184	14.97004	0.0937193	0.22361900	2.6882124	21	3 15.7	20.6
322136 2010 VH_{192}	16.3	X	353.82988	252.82555	40.31763	10.13403	0.1369327	0.24650424	2.5191447	21	7 9.6	18.9
322137 2010 VV_{192}	13.4	X	317.48907	144.22397	293.41956	8.22780	0.0877149	0.08278261	5.2140675	21	10 29.7	20.1
322138 2010 VR_{199}	16.2	X	75.73271	283.02460	183.68143	8.18692	0.1146141	0.21623863	2.7490367	21	3 7.4	19.5
322139 2010 VV_{199}	16.7	X	235.74404	183.52539	175.35698	8.13128	0.2282841	0.23734322	2.5835577	21	4 13.9	21.1
322140 2010 VA_{200}	15.3	X	54.09753	251.00956	81.12259	12.44333	0.1595297	0.18180465	3.0860247	21	12 5.0	19.6
322141 2010 WY_{1}	17.1	X	216.50446	293.71759	63.82592	4.65282	0.0980979	0.22873975	2.6479409	21	4 1.3	21.1
322142 2010 WH_{4}	17.1	X	100.36530	149.98535	221.05245	1.23176	0.0779055	0.20347994	2.8627822	21	—	—
322143 2010 WD_{6}	17.2	X	29.26457	45.59649	137.88571	0.64214	0.0296289	0.22566550	2.6719353	21	4 2.1	20.6
322144 2010 WT_{7}	16.9	X	281.52060	275.36876	78.99633	2.23590	0.1186008	0.24174673	2.5520880	21	6 6.1	20.0
322145 2010 WH_{9}	15.7	X	7.46068	73.01725	299.21271	10.58125	0.0877617	0.19042287	2.9921956	21	11 9.7	19.7
322146 2010 WS_{14}	16.4	X	134.91384	238.87846	110.20161	3.17733	0.0961021	0.20444034	2.8538096	21	—	—
322147 2010 WM_{18}	16.7	X	263.70783	256.77326	1.46971	3.44994	0.0509773	0.21151563	2.7898086	21	1 24.3	20.8
322148 2010 WM_{25}	17.2	X	147.88461	91.79168	351.29136	1.51640	0.0526074	0.22784348	2.6548805	21	4 30.2	20.9
322149 2010 WO_{30}	16.0	X	181.99749	338.68591	243.83429	4.08213	0.0850392	0.17886030	3.1198000	21	11 28.9	20.8
322150 2010 WY_{32}	16.5	X	12.52160	157.17646	234.61850	4.28902	0.1634720	0.18261541	3.0768838	21	12 22.3	20.1
322151 2010 WX_{36}	15.9	X	147.90993	165.09246	89.71970	6.01009	0.1125784	0.18085939	3.0967680	21	12 3.7	20.7
322152 2010 WC_{46}	16.8	X	192.79839	279.01349	70.69410	3.91491	0.0460663	0.21610827	2.7501421	21	2 26.2	20.7
322153 2010 WM_{50}	16.3	X	148.73694	70.37899	273.29056	0.93616	0.0716343	0.20387856	2.8590495	21	1 2.9	20.4
322154 2010 WY_{51}	17.0	X	166.12330	114.87279	319.90645	1.68495	0.0024393	0.23019961	2.6367341	21	5 7.8	20.4
322155 2010 WX_{53}	15.6	X	187.77530	335.08387	265.20185	12.55714	0.0342910	0.18537429	3.0462792	21	12 29.9	20.1
322156 2010 WC_{58}	16.1	X	54.05128	176.77004	206.44357	2.27657	0.1419772	0.19089779	2.9872309	21	—	—
322157 2010 WC_{61}	13.7	X	285.35481	44.83485	69.77529	13.80104	0.1288502	0.08191028	5.2510212	21	11 1.5	20.5
322158 2010 WW_{61}	16.6	X	206.81755	260.73450	71.55949	5.17950	0.0736592	0.21547135	2.7555588	21	2 21.2	20.7
322159 2010 WE_{63}	16.0	X	325.67533	27.56300	76.41875	4.00469	0.0319249	0.18463490	3.0544066	21	—	—
322160 2010 WA_{65}	15.7	X	93.03939	59.57578	265.27848	9.26781	0.0932554	0.18532611	3.0468072	21	12 30.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322161 2010 WH_{69}	16.4	X	127.02806	6.16378	340.16971	1.73079	0.0494288	0.19761939	2.9191048	21	—	—
322162 2010 WD_{72}	15.3	X	172.24599	353.92532	253.18470	8.54594	0.0526662	0.18597210	3.0397475	21	12 20.2	19.9
322163 2010 WF_{72}	15.3	X	170.08891	170.40958	74.47968	19.05361	0.0506498	0.18242500	3.0790245	21	12 14.2	19.8
322164 2010 WF_{74}	16.2	X	230.09553	169.69864	339.24350	4.70150	0.1331545	0.17082146	3.2169262	21	10 15.4	21.0
322165 2010 XH_{1}	15.3	X	32.91188	275.17580	71.43070	26.83663	0.2231525	0.18115070	3.0934472	21	12 4.2	19.1
322166 2010 XZ_{12}	15.9	X	0.54250	30.22062	226.09753	13.46343	0.1244603	0.23870548	2.5737190	21	5 26.4	18.5
322167 2010 XA_{13}	13.3	X	327.81586	347.79637	71.12141	12.05174	0.0466772	0.08538298	5.1076584	21	10 31.3	20.0
322168 2010 XB_{13}	16.7	X	228.91228	256.85436	94.34874	4.47680	0.1117209	0.23085994	2.6317038	21	4 5.7	20.8
322169 2010 XT_{18}	16.7	X	111.99835	150.56132	115.80145	6.93734	0.1411020	0.26536171	2.3983388	21	11 27.4	20.4
322170 2010 XT_{20}	16.8	X	100.60956	286.05169	173.84669	4.77266	0.0611449	0.21812288	2.7331821	21	3 26.7	20.5
322171 2010 XG_{21}	13.4	X	321.71500	70.45893	358.89351	8.23371	0.0554206	0.08249875	5.2260209	21	10 28.8	20.1
322172 2010 XH_{24}	15.5	X	359.31622	327.08232	110.20072	9.99151	0.0618419	0.18930807	3.0039311	21	—	—
322173 2010 XJ_{25}	15.4	X	106.86791	290.11655	50.17075	10.73698	0.0653496	0.19240244	2.9716364	21	—	—
322174 2010 XU_{25}	15.5	X	293.60004	76.80561	87.27894	12.75094	0.0609554	0.19286594	2.9668735	21	—	—
322175 2010 XZ_{28}	17.0	X	226.55321	27.05980	303.79959	1.98095	0.0844273	0.22156081	2.7048349	21	3 8.1	20.9
322176 2010 XR_{30}	17.1	X	128.83720	236.50214	206.93679	1.75301	0.0451420	0.22363475	2.6880862	21	4 6.9	20.6
322177 2010 XA_{31}	16.0	X	196.95161	340.26001	232.18257	5.51085	0.1186716	0.18007196	3.1057893	21	11 30.1	20.9
322178 2010 XW_{31}	16.9	X	11.67471	218.84970	167.96946	1.00923	0.1960092	0.18219698	3.0815929	21	12 19.0	20.5
322179 2010 XK_{32}	15.8	X	140.58269	335.01334	276.60926	14.15308	0.0627673	0.17757363	3.1348521	21	11 19.6	20.7
322180 2010 XO_{39}	15.8	X	116.59729	243.11874	105.57675	11.24824	0.1411393	0.19998366	2.8960521	21	—	—
322181 2010 XF_{40}	16.2	X	228.60029	219.64123	140.25071	5.17434	0.2771017	0.23421900	2.6064815	21	4 8.2	20.8
322182 2010 XO_{43}	15.5	X	12.97904	162.69422	205.05824	9.02067	0.0838301	0.17469569	3.1691874	21	11 12.9	19.6
322183 2010 XP_{44}	14.5	X	246.51468	298.99082	256.52690	25.51333	0.2628965	0.18054692	3.1003400	21	12 13.3	19.0
322184 2010 XX_{51}	16.5	X	138.59914	355.74231	125.37933	5.94899	0.0232280	0.23571868	2.5954144	21	6 6.3	20.0
322185 2010 XA_{53}	16.6	X	117.71999	5.68738	355.22634	1.62498	0.0791821	0.20272409	2.8698936	21	—	—
322186 2010 XS_{54}	16.4	X	221.39572	281.56864	72.06081	2.05572	0.1632684	0.23027230	2.6361791	21	3 28.9	20.5
322187 2010 XM_{59}	15.8	X	44.65741	173.42876	218.16723	2.04646	0.0591126	0.18766827	3.0214041	21	—	—
322188 2010 XX_{59}	16.5	X	263.23671	186.33364	55.99023	2.68492	0.0831074	0.20194990	2.8772237	21	1 2.8	20.8
322189 2010 XG_{63}	16.1	X	196.35179	250.55863	91.02273	7.19944	0.0703763	0.20847550	2.8168650	21	2 22.8	20.4
322190 2010 XW_{69}	14.3	X	236.50281	263.79841	267.00909	23.67199	0.2582220	0.17633072	3.1495662	21	11 1.7	19.7
322191 2010 XM_{70}	15.6	X	6.03069	83.05562	279.55580	11.85707	0.1527819	0.17512508	3.1640049	21	10 28.4	19.6
322192 2010 XN_{70}	16.9	X	328.43161	133.57922	58.23396	5.24863	0.0150111	0.20942707	2.8083259	21	1 26.5	20.7
322193 2010 XB_{76}	15.3	X	143.86853	190.82143	96.54737	10.30813	0.1114754	0.18767947	3.0212839	21	—	—
322194 2010 XW_{76}	13.6	X	6.87737	281.96787	101.79121	8.61795	0.1114600	0.08380073	5.1717498	21	11 10.7	20.0
322195 2010 XZ_{77}	16.7	X	102.30717	237.04002	189.17135	4.12002	0.0604774	0.21052946	2.7985138	21	2 13.3	20.5
322196 2010 XV_{78}	13.1	X	329.10292	323.58033	103.67119	10.12034	0.0318002	0.08224861	5.2366114	21	11 11.0	20.0
322197 2010 XZ_{79}	16.4	X	90.41445	213.22296	223.16896	3.38097	0.0838708	0.20938277	2.8087220	21	2 13.7	20.2
322198 2010 XE_{80}	16.2	X	172.77873	111.24559	173.37452	5.01701	0.0648947	0.19293525	2.9661628	21	—	—
322199 2010 XS_{82}	15.6	X	150.42098	314.22405	317.48746	3.43627	0.1223705	0.17864681	3.1222849	21	12 24.7	20.5
322200 2010 XC_{83}	15.3	X	50.14730	285.98360	84.08430	11.33530	0.0689702	0.18455867	3.0552476	21	—	—
322201 2010 XY_{83}	15.5	X	229.03828	0.14768	229.16983	11.40012	0.0896104	0.18997349	2.9969124	21	—	—
322202 2010 XM_{85}	15.8	X	352.52524	295.38711	124.94728	6.84817	0.0304950	0.18071819	3.0983808	21	12 16.4	20.0
322203 2010 YZ	15.7	X	25.58766	88.75314	273.03304	7.42340	0.0846133	0.17505874	3.1648042	21	11 21.4	20.0
322204 2010 YA_{4}	16.7	X	97.40011	331.48813	104.22251	4.98670	0.0782540	0.21255721	2.7806873	21	2 24.0	20.4
322205 2010 YW_{4}	15.5	X	45.05724	112.10451	220.44316	8.67072	0.0630678	0.17252315	3.1957377	21	11 9.1	19.9
322206 2011 AP_{3}	15.6	X	301.50236	33.20980	74.35965	8.07823	0.0719564	0.17791406	3.1308520	21	12 3.8	19.5
322207 2011 AL_{10}	16.5	X	92.80113	251.52604	121.29385	0.06551	0.1006129	0.18937631	3.0032094	21	—	—
322208 2011 AK_{14}	15.3	X	125.25972	59.36238	50.35262	3.66924	0.1891586	0.12538558	3.9534021	21	5 27.8	21.3
322209 2011 AS_{25}	17.0	X	6.61835	119.42531	238.04374	2.17753	0.2019762	0.25898643	2.4375379	21	11 21.5	19.4
322210 2011 AQ_{31}	16.1	X	239.84247	248.27023	314.10028	8.11882	0.0527237	0.17812362	3.1283959	21	—	—
322211 2011 AE_{33}	17.5	X	332.13421	336.64567	70.32699	3.06459	0.1641194	0.26146908	2.4220838	21	11 21.7	19.6
322212 2011 AE_{40}	16.4	X	174.30186	314.19453	144.89909	10.44338	0.0657502	0.22851509	2.6496761	21	6 23.7	20.4
322213 2011 AD_{43}	16.3	X	111.78930	243.22644	96.56590	2.20101	0.1368161	0.18211167	3.0825552	21	—	—
322214 2011 AN_{46}	16.5	X	230.48274	232.07222	139.49870	6.67867	0.0935051	0.21860158	2.7291905	21	5 5.5	20.7
322215 2011 AR_{47}	15.5	X	92.64205	316.99412	199.32937	2.22499	0.1752170	0.12616922	3.9370154	21	6 17.8	21.1
322216 2011 AQ_{52}	16.0	X	111.31083	293.22462	54.26100	2.50090	0.0199632	0.18265036	3.0764914	21	—	—
322217 2011 AY_{56}	17.5	X	87.53861	159.13963	304.09662	6.38740	0.0921044	0.29922291	2.2138056	21	2 28.5	19.7
322218 2011 AX_{60}	15.5	X	64.95526	257.58785	102.09026	5.57968	0.0587948	0.17624228	3.1506197	21	—	—
322219 2011 AY_{62}	15.7	X	118.09554	232.64493	99.02088	3.77248	0.0867428	0.17729304	3.1381588	21	—	—
322220 2011 AB_{69}	16.8	X	100.31834	350.45911	150.27150	4.69599	0.0375849	0.21595800	2.7514177	21	5 16.8	20.5
322221 2011 AS_{70}	15.6	X	212.15800	289.73910	308.76611	8.76912	0.1099857	0.17892870	3.1190048	21	—	—
322222 2011 AE_{72}	16.1	X	244.34869	75.95655	130.89797	2.20136	0.0528272	0.18779840	3.0200082	21	—	—
322223 2011 AU_{73}	16.9	X	145.24654	96.90144	40.62638	5.48295	0.0400532	0.23319254	2.6141246	21	7 8.9	20.5
322224 2011 AA_{74}	16.2	X	139.39670	335.44669	52.76209	2.96745	0.1159910	0.20617242	2.8378036	21	2 21.6	20.4
322225 2011 BM_{6}	17.6	X	173.91521	142.04334	327.33389	3.59316	0.1237956	0.23206481	2.6225867	21	7 7.6	21.6
322226 2011 BY_{6}	16.6	X	36.11051	168.22369	94.24802	3.26769	0.1513262	0.23223606	2.6212973	21	8 16.4	19.4
322227 2011 BQ_{47}	15.9	X	69.74752	111.20789	233.99645	4.31344	0.1483604	0.16938269	3.2351174	21	—	—
322228 2011 BZ_{52}	15.6	X	341.79152	245.79879	184.02201	1.58049	0.0276038	0.17150771	3.2083392	21	12 11.8	20.1
322229 2011 BW_{53}	17.0	X	28.60595	305.15229	110.03515	3.29151	0.0453197	0.27194176	2.3594935	21	—	—
322230 2011 BD_{62}	16.7	X	345.14784	279.96071	89.69360	7.38591	0.1327634	0.25178035	2.4838278	21	10 22.6	19.2
322231 2011 BE_{65}	17.2	X	74.17262	283.50246	308.31703	1.15292	0.1455641	0.22995552	2.6385996	21	8 28.2	20.7
322232 2011 BP_{74}	17.5	X	18.68340	201.50387	198.23817	2.13865	0.1407236	0.26605998	2.3941408	21	—	—
322233 2011 BJ_{79}	15.3	X	342.24818	320.09472	109.68363	11.75009	0.0128678	0.17017618	3.2250531	21	12 12.7	19.8
322234 2011 BU_{81}	17.5	X	186.86926	294.15657	227.46066	3.37797	0.1353910	0.24281244	2.5446151	21	9 24.4	21.3
322235 2011 BH_{82}	16.1	X	257.31799	239.99689	104.03579	8.48528	0.1142747	0.22233432	2.6985577	21	4 28.9	20.1
322236 2011 BR_{110}	17.5	X	5.98651	232.42576	188.41360	5.96608	0.1029192	0.26594204	2.3948485	21	—	—
322237 2011 BV_{114}	17.2	X	204.25429	327.61702	228.08220	0.91124	0.1175230	0.25858489	2.4400606	21	11 29.3	20.7
322238 2011 BX_{119}	16.0	X	49.75961	102.71378	288.13454	5.21252	0.1062728	0.18215179	3.0821025	21	—	—
322239 2011 BN_{124}	15.7	X	231.07147	190.20893	37.91494	5.70525	0.0825312	0.17571825	3.1568805	21	—	—
322240 2011 BH_{137}	17.3	X	161.08759	181.37182	68.02268	3.15634	0.1609921	0.26048405	2.4281861	21	12 19.6	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322241 2011 CY_{14}	16.3	X	114.68030	218.07564	206.73788	1.40195	0.0835815	0.19703203	2.9249032	21	3 5.3	20.5
322242 2011 CW_{41}	17.3	X	104.54443	186.16491	181.39934	4.42600	0.2609331	0.28169986	2.3046853	21	—	—
322243 2011 CG_{63}	15.1	X	141.60843	213.29909	85.82393	8.30446	0.1381011	0.17220889	3.1996244	21	—	—
322244 2011 CG_{73}	15.1	X	248.53098	81.74582	129.24996	16.21463	0.0808054	0.17473231	3.1687446	21	—	—
322245 2011 CX_{77}	16.2	X	53.46942	300.85436	272.01560	7.55885	0.2441139	0.21417644	2.7666544	21	7 17.9	19.4
322246 2011 CR_{85}	15.8	X	280.62152	28.82709	147.21826	4.14864	0.0897880	0.17394397	3.1783115	21	—	—
322247 2011 CV_{85}	15.0	X	149.10085	79.59493	165.56144	11.06975	0.1189251	0.15643117	3.4113048	21	11 22.5	20.5
322248 2011 CE_{86}	15.5	X	238.00464	113.24134	181.66200	11.98878	0.0123436	0.19440371	2.9512071	21	2 11.2	19.8
322249 2011 CR_{86}	16.5	X	293.96523	63.57261	228.61633	2.89970	0.0683185	0.20947889	2.8078627	21	4 9.6	20.3
322250 2011 CK_{88}	16.2	X	337.28866	354.66836	150.52387	9.41979	0.0316033	0.18166816	3.0875702	21	—	—
322251 2011 CN_{88}	15.9	X	195.02382	81.83424	268.95900	2.98720	0.0202466	0.19794558	2.9158970	21	2 28.7	20.0
322252 2011 CR_{116}	16.7	X	286.14964	155.51786	169.35516	5.19911	0.0154449	0.21524489	2.7574913	21	5 21.9	20.4
322253 2011 DT_{12}	17.3	X	228.35619	125.31426	122.04189	2.35639	0.1523395	0.26650725	2.3914613	21	—	—
322254 2011 DG_{19}	16.7	X	250.25741	353.74238	308.60063	1.38713	0.1589087	0.20162266	2.8803361	21	2 23.6	21.4
322255 2011 DP_{21}	16.8	X	265.12008	197.01411	186.19774	5.78381	0.0949551	0.22438036	2.6821279	21	6 27.5	20.5
322256 2011 DN_{22}	16.8	X	71.50475	164.04906	133.64992	2.31000	0.0416802	0.24087526	2.5582398	21	11 7.2	20.1
322257 2011 DH_{29}	16.2	X	221.43073	213.60820	151.50047	6.83332	0.0548274	0.21206117	2.7850219	21	4 19.9	20.3
322258 2011 DK_{41}	16.5	X	14.21872	85.67442	167.25122	4.83445	0.0676508	0.21462026	2.7628390	21	6 15.9	19.8
322259 2011 DW_{41}	15.3	X	27.18302	292.87096	161.97490	9.98532	0.0476265	0.17890371	3.1192952	21	—	—
322260 2011 DV_{49}	15.1	X	251.32374	201.28648	78.70014	11.80703	0.0933628	0.18869444	3.0104400	21	2 8.5	19.8
322261 2011 EJ_{7}	15.6	X	162.98764	112.27546	168.73813	5.00791	0.1259611	0.17121052	3.2120508	21	—	—
322262 2011 EP_{9}	17.2	X	91.22295	259.86333	323.19509	1.78878	0.0673193	0.22571774	2.6715230	21	8 26.7	20.7
322263 2011 EV_{13}	16.8	X	292.21494	168.68639	303.60143	3.86364	0.0674155	0.25323197	2.4743266	21	12 13.7	19.5
322264 2011 EK_{15}	15.5	X	53.89167	229.85400	195.90230	10.50998	0.0415460	0.18120889	3.0927849	21	—	—
322265 2011 EY_{16}	15.4	X	0.79527	19.13803	48.13419	5.60645	0.1068382	0.16831787	3.2487470	21	—	—
322266 2011 ES_{25}	15.3	X	196.63503	306.84173	30.98815	22.77429	0.1242612	0.18405780	3.0607878	21	3 4.2	20.5
322267 2011 ET_{26}	17.2	X	98.19404	190.15186	101.03817	2.55616	0.0540204	0.24717583	2.5145795	21	12 3.4	20.5
322268 2011 EF_{27}	16.2	X	117.12415	287.39468	166.62844	11.42037	0.0502642	0.19835279	2.9119048	21	4 12.1	20.3
322269 2011 EN_{35}	16.2	X	114.69412	266.20932	154.13055	2.44892	0.1056038	0.19597958	2.9353654	21	3 3.7	20.3
322270 2011 ES_{35}	16.2	X	293.46026	355.22763	323.54382	1.84561	0.0665054	0.21419428	2.7665008	21	5 13.9	20.0
322271 2011 EH_{42}	15.3	X	170.63887	285.36407	15.35166	9.94878	0.0862744	0.17221161	3.1995907	21	—	—
322272 2011 EK_{44}	15.3	X	206.36193	348.56472	324.27383	11.17329	0.1124600	0.18748839	3.0233364	21	1 31.7	20.1
322273 2011 EH_{54}	16.7	X	343.40686	183.48253	139.19103	5.26773	0.0954560	0.22008598	2.7169051	21	8 2.2	19.9
322274 2011 EP_{63}	16.3	X	34.78614	283.33705	141.05483	0.75494	0.0727152	0.17510574	3.1642379	21	—	—
322275 2011 ED_{68}	16.4	X	173.80827	254.30446	135.71353	3.01021	0.0454358	0.19846339	2.9108229	21	3 28.1	20.5
322276 2011 ED_{74}	15.9	X	334.15678	66.68138	206.80880	7.82060	0.1689844	0.20182610	2.8784001	21	5 1.1	19.1
322277 2011 EF_{83}	17.4	X	268.53912	69.29138	184.25632	3.12138	0.0762018	0.28205329	2.3027596	21	1 6.5	20.4
322278 2011 FY_{5}	17.6	X	205.39209	226.39346	21.90142	3.02915	0.1267716	0.26335230	2.4105231	21	—	—
322279 2011 FE_{9}	16.2	X	257.55278	194.45606	108.90215	3.89948	0.1655910	0.19225920	2.9731122	21	3 5.9	21.0
322280 2011 FN_{9}	16.9	X	117.27222	55.80001	156.61730	2.53116	0.1421211	0.22908493	2.6452803	21	9 21.2	21.0
322281 2011 FL_{11}	16.0	X	303.28091	203.20321	97.09983	3.20147	0.0352837	0.20207131	2.8760710	21	5 9.9	19.8
322282 2011 FO_{13}	16.0	X	248.15985	193.45228	111.25596	2.04190	0.1383130	0.18743814	3.0238766	21	2 28.6	20.7
322283 2011 FK_{14}	15.6	X	8.61279	224.96433	171.73388	6.11693	0.0679740	0.15748717	3.3960384	21	12 7.2	20.2
322284 2011 FR_{16}	17.4	X	319.96495	194.33399	46.08885	6.07010	0.1191605	0.29045384	2.2581423	21	2 17.9	20.1
322285 2011 FL_{17}	16.1	X	96.63556	130.98362	138.55905	5.78029	0.0921599	0.23605467	2.5929510	21	11 8.1	19.9
322286 2011 FM_{28}	16.3	X	325.84952	5.63945	221.72840	4.98712	0.1514141	0.19275591	2.9680024	21	2 17.3	20.2
322287 2011 FV_{31}	15.9	X	275.86490	58.33243	170.67700	2.25415	0.1210348	0.17403333	3.1772235	21	1 1.5	20.7
322288 2011 FQ_{34}	16.6	X	278.36377	243.34960	91.13181	2.59169	0.0730548	0.20895078	2.8125919	21	5 15.3	20.5
322289 2011 FY_{37}	16.7	X	195.77488	320.60779	314.51987	5.35664	0.0942845	0.26471141	2.4022652	21	—	—
322290 2011 FV_{42}	16.0	X	334.44035	289.82717	38.73593	5.92648	0.0751381	0.21858932	2.7292926	21	7 29.9	19.3
322291 2011 FE_{45}	16.4	X	16.23398	296.50527	177.71242	10.79719	0.2235069	0.18123461	3.0924923	21	—	—
322292 2011 FS_{46}	15.6	X	187.94122	324.97173	22.00413	10.44658	0.0836673	0.18109006	3.0941377	21	2 26.2	20.4
322293 2011 FT_{46}	15.9	X	315.45383	26.69330	233.51506	2.74475	0.0660352	0.19257428	2.9698683	21	3 29.9	19.8
322294 2011 FU_{56}	16.4	X	44.67132	135.76041	97.82670	5.14577	0.0447070	0.20968012	2.8060659	21	7 3.8	20.1
322295 2011 FG_{59}	16.6	X	81.95163	5.62685	219.66954	3.23521	0.0419729	0.22157022	2.7047583	21	8 12.3	20.3
322296 2011 FW_{60}	16.8	X	229.80150	324.08796	74.50958	0.78554	0.0803943	0.21330365	2.7741963	21	6 7.4	20.7
322297 2011 FK_{69}	15.2	X	164.51308	254.12970	96.62508	12.13517	0.1203135	0.18202075	3.0835816	21	2 7.5	20.1
322298 2011 FL_{69}	15.5	X	224.72345	200.44860	132.72678	11.74960	0.0823090	0.19315358	2.9639272	21	3 16.5	20.1
322299 2011 FQ_{74}	17.0	X	293.22700	73.90287	183.85113	5.82607	0.0820746	0.28834856	2.2691203	21	2 7.6	19.9
322300 2011 FG_{82}	16.6	X	73.99731	116.41578	14.11103	1.57130	0.0675857	0.19738012	2.9214634	21	4 2.6	20.4
322301 2011 FU_{82}	16.4	X	16.39017	330.14375	150.55369	2.51874	0.0920029	0.18022951	3.1039791	21	—	—
322302 2011 FM_{104}	16.1	X	228.16041	136.66603	133.54474	8.45734	0.1487587	0.17605049	3.1529074	21	1 2.5	21.3
322303 2011 FN_{114}	16.1	X	319.81090	38.09666	277.82054	5.00875	0.0055344	0.21502086	2.7594063	21	6 24.7	19.9
322304 2011 FW_{120}	16.2	X	245.33927	247.91639	7.13361	1.26423	0.2112214	0.17362077	3.1822546	21	—	—
322305 2011 FA_{122}	17.2	X	324.32684	326.66169	356.97571	3.45557	0.1480004	0.31069970	2.1589479	21	6 23.7	19.0
322306 2011 FR_{136}	16.5	X	299.61809	132.64605	194.10441	3.90981	0.0709375	0.21529550	2.7570592	21	6 2.7	20.1
322307 2011 FJ_{140}	16.5	X	94.54487	281.51702	207.06380	5.21257	0.0179024	0.20377336	2.8600335	21	4 19.9	20.3
322308 2011 FR_{140}	17.1	X	149.81053	50.81780	133.68047	3.75959	0.1120368	0.23230866	2.6207511	21	9 18.3	21.1
322309 2011 FC_{141}	16.2	X	270.93345	158.96530	217.22892	5.89376	0.0261451	0.21621066	2.7492737	21	7 5.7	19.9
322310 2011 FA_{143}	16.9	X	160.07440	224.77322	61.18952	3.19932	0.1764509	0.25356398	2.4721662	21	—	—
322311 2011 FM_{144}	15.8	X	334.59688	44.24289	226.49986	5.18241	0.0098160	0.20858527	2.8158766	21	5 15.1	19.7
322312 2011 FL_{147}	16.6	X	132.39702	332.71894	216.45199	7.60457	0.1667168	0.22452269	2.6809943	21	9 4.8	21.0
322313 2011 FO_{148}	16.8	X	122.69104	196.86505	34.82155	4.02522	0.1049870	0.23364687	2.6107347	21	10 18.7	20.7
322314 2011 FX_{149}	16.1	X	55.97708	83.69862	171.34681	5.57964	0.0787594	0.21959212	2.7209771	21	8 22.9	19.7
322315 2011 FR_{153}	16.8	X	196.93737	106.35549	51.34156	2.84197	0.0676879	0.23234853	2.6204513	21	10 5.8	20.4
322316 2011 GG	13.2	X	336.85092	147.36996	283.59258	19.87338	0.0788080	0.08398859	5.1640353	21	11 17.8	19.9
322317 2011 GB_{2}	16.8	X	344.64572	292.85182	102.49135	3.41092	0.0770949	0.24237927	2.5476459	21	11 19.3	19.7
322318 2011 GC_{5}	16.2	X	241.17919	94.53367	181.24988	2.53842	0.0993537	0.18060263	3.0997025	21	1 21.5	21.0
322319 2011 GX_{13}	17.5	X	40.42258	316.45958	253.31411	4.63621	0.1210853	0.30155286	2.2023876	21	5 27.6	19.1
322320 2011 GB_{17}	15.4	X	186.40178	96.63766	211.75950	8.81282	0.0678584	0.17399086	3.1777404	21	1 5.7	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322321 2011 GJ_{27}	16.4	X	161.42080	253.01275	326.56255	4.60948	0.0466002	0.24275743	2.5449995	21	11 12.8	19.9
322322 2011 GF_{31}	17.1	X	31.56263	182.90244	147.68932	1.69235	0.0927228	0.23152496	2.6266619	21	11 2.9	20.2
322323 2011 GG_{55}	16.7	X	103.75745	155.07525	124.67266	2.40045	0.2641928	0.23268522	2.6179229	21	12 7.5	21.2
322324 2011 GR_{64}	16.6	X	51.14670	145.63833	116.25286	9.70711	0.1575027	0.21695391	2.7429911	21	9 10.9	20.1
322325 2011 GU_{69}	17.1	X	208.15201	36.92483	203.44028	5.53019	0.0875690	0.25497123	2.4630616	21	—	—
322326 2011 GZ_{71}	15.6	X	321.82029	318.75507	213.16061	15.76691	0.2265989	0.17590653	3.1546274	21	—	—
322327 2011 GV_{72}	16.8	X	352.60728	37.21861	213.68962	1.10872	0.0612559	0.20181349	2.8785200	21	5 10.8	20.4
322328 2011 GT_{78}	16.8	X	21.72282	110.77985	189.27477	5.27655	0.0454443	0.22197101	2.7015015	21	8 29.6	20.2
322329 2011 GO_{84}	16.8	X	336.25187	335.18597	347.07441	2.06950	0.0749647	0.22009965	2.7167925	21	7 22.4	20.1
322330 2011 HV_{8}	16.1	X	214.26590	267.07331	154.06529	6.69979	0.0523047	0.21177009	2.7875733	21	6 21.1	20.2
322331 2011 HH_{12}	15.4	X	139.09488	313.16554	77.24347	14.03792	0.0413044	0.17677409	3.1442976	21	2 24.1	20.2
322332 2011 HP_{13}	15.9	X	243.42518	104.40100	194.84616	14.06299	0.1211361	0.18150505	3.0894196	21	2 15.7	20.9
322333 2011 HV_{22}	15.8	X	306.58234	88.91621	178.37936	9.37204	0.0409929	0.19019313	2.9946047	21	4 2.0	19.9
322334 2011 HS_{24}	16.5	X	264.76203	176.69390	55.77848	1.13502	0.1513210	0.17233888	3.1980153	21	—	—
322335 2011 HS_{27}	16.5	X	85.69858	205.81262	88.44679	3.50215	0.1841580	0.23229575	2.6208482	21	12 3.6	20.4
322336 2011 HH_{28}	15.0	X	238.68022	93.03998	220.96775	10.26780	0.0293576	0.18362052	3.0656453	21	3 6.2	19.7
322337 2011 HZ_{31}	15.5	X	9.22744	13.51142	204.39007	9.07539	0.0141326	0.19246504	2.9709920	21	4 23.7	19.6
322338 2011 HE_{32}	15.8	X	90.80014	320.04838	150.91315	10.37591	0.0101747	0.18585733	3.0409988	21	3 27.1	20.1
322339 2011 HR_{35}	15.8	X	178.39735	274.33428	78.74340	3.38854	0.0994911	0.17958350	3.1114185	21	2 21.9	20.6
322340 2011 HP_{38}	17.8	X	325.60854	173.67924	137.20913	2.50042	0.1066535	0.30254021	2.1975932	21	6 11.7	19.8
322341 2011 HR_{44}	15.5	X	249.39576	249.87821	71.61863	14.06064	0.0921630	0.18742111	3.0240599	21	4 1.5	20.3
322342 2011 HN_{63}	16.4	X	7.90620	324.13640	188.57078	7.80924	0.1410089	0.18320208	3.0703116	21	1 22.0	20.2
322343 2011 HW_{73}	15.5	X	12.25630	328.18018	207.53016	16.22773	0.0665572	0.18341060	3.0679840	21	2 28.3	19.7
322344 2011 HU_{74}	16.7	X	311.26684	340.17186	157.85850	4.19803	0.0508778	0.25647526	2.4534228	21	—	—
322345 2011 HD_{77}	15.8	X	251.60603	267.40282	106.59706	8.44596	0.0725362	0.20149434	2.8815588	21	6 3.6	20.0
322346 2011 HT_{83}	16.2	X	10.36068	183.22038	90.58073	3.69423	0.0484668	0.21225442	2.7833312	21	7 8.3	19.6
322347 2011 HM_{84}	17.1	X	133.47135	204.75182	216.04186	6.07615	0.0621296	0.28334812	2.2957389	21	3 5.7	20.1
322348 2011 HJ_{89}	16.1	X	56.12764	33.98177	69.30840	4.28968	0.0677090	0.17847668	3.1242688	21	2 7.3	20.1
322349 2011 JN_{11}	17.0	X	124.20976	154.99406	116.36013	3.19110	0.1636251	0.23692911	2.5865672	21	12 10.4	21.2
322350 2011 JX_{11}	17.1	X	253.18746	334.33447	301.40186	1.03678	0.1610826	0.27244066	2.3566121	21	1 15.8	20.9
322351 2011 JU_{16}	15.7	X	239.87808	172.89607	118.88805	4.19427	0.1396642	0.17366719	3.1816875	21	2 7.5	20.7
322352 2011 JP_{20}	16.5	X	346.95543	118.39665	128.72199	2.98810	0.0121372	0.19431816	2.9520732	21	5 2.6	20.5
322353 2011 JF_{21}	16.8	X	116.38264	80.32236	165.74316	8.94760	0.0709934	0.22879125	2.6475435	21	10 29.1	20.7
322354 2011 JG_{28}	15.3	X	312.28615	322.59381	233.17055	8.59631	0.0474506	0.17065233	3.2190514	21	1 11.8	19.9
322355 2011 KZ_{2}	17.3	X	277.92054	166.85931	86.93609	3.41156	0.1599159	0.27241016	2.3567880	21	1 12.5	20.8
322356 2011 KC_{4}	14.8	X	79.44078	283.41968	344.21237	4.92588	0.1423235	0.12535346	3.9540775	21	10 7.1	20.5
322357 2011 KE_{4}	14.7	X	318.05895	184.54033	93.75523	26.27540	0.2344193	0.18826043	3.0150650	21	4 17.9	19.1
322358 2011 KF_{16}	15.2	X	231.96164	203.32339	142.54727	23.51431	0.1264542	0.18464821	3.0542598	21	4 9.6	20.3
322359 2011 KG_{21}	16.6	X	349.97868	279.80141	124.74313	6.77490	0.0867279	0.23828915	2.5767159	21	12 10.1	19.7
322360 2011 KE_{22}	16.1	X	10.27562	10.63285	231.32345	1.31352	0.0666702	0.19628770	2.9322928	21	5 26.1	19.5
322361 2011 KJ_{22}	16.2	X	70.72518	152.76355	132.71289	7.46359	0.0949217	0.22416986	2.6838067	21	10 28.8	20.0
322362 2011 KB_{29}	17.7	X	311.64284	51.23650	218.00264	1.72450	0.1533701	0.28354548	2.2946735	21	3 10.3	20.4
322363 2011 KY_{29}	16.7	X	156.65344	274.80934	320.88045	1.49946	0.1375214	0.23663115	2.5887380	21	11 25.9	20.7
322364 2011 KA_{35}	15.7	X	287.73961	196.99852	110.66748	9.90085	0.1892551	0.18710791	3.0274336	21	4 12.4	20.2
322365 2011 KL_{44}	16.3	X	22.13351	97.88943	135.23656	6.67344	0.0079877	0.19894779	2.9060961	21	5 31.2	20.3
322366 2011 KQ_{45}	15.7	X	25.51855	335.65523	175.00307	11.08786	0.0543066	0.17839344	3.1252406	21	2 19.7	19.9
322367 2011 LC_{3}	16.5	X	30.30489	90.82708	148.10241	3.18093	0.0949007	0.20142992	2.8821731	21	6 24.4	20.1
322368 2011 LU_{4}	17.4	X	210.22267	104.63696	138.03942	2.84141	0.1360664	0.25107677	2.4884659	21	—	—
322369 2011 LF_{5}	15.4	X	217.16434	270.67301	115.29535	10.66996	0.0932036	0.19219525	2.9737716	21	5 12.3	20.1
322370 2011 LF_{9}	17.7	X	56.62437	72.91225	135.36394	5.70612	0.0917288	0.29843686	2.2176912	21	6 21.4	19.9
322371 2011 LR_{11}	16.6	X	53.07465	97.75264	200.52079	5.14320	0.1072489	0.22167058	2.7039419	21	10 21.3	20.2
322372 2011 LP_{13}	16.3	X	271.66631	242.82084	125.12656	3.03260	0.0883085	0.20104933	2.8858093	21	6 17.4	20.2
322373 2011 LX_{13}	15.6	X	230.39930	168.78353	157.91078	11.54071	0.0589825	0.17834173	3.1258447	21	3 15.8	20.3
322374 2011 LG_{22}	16.6	X	328.93123	168.29842	188.20237	3.78452	0.1142982	0.21236259	2.7823859	21	8 22.9	19.9
322375 2011 LQ_{22}	16.4	X	329.79050	197.12947	159.22510	4.45988	0.1139231	0.21242800	2.7818148	21	8 25.1	19.4
322376 2011 LU_{24}	15.4	X	323.27847	6.00742	228.42051	15.35186	0.1941296	0.18262014	3.0768307	21	2 14.0	19.9
322377 2011 LJ_{26}	15.7	X	274.73797	21.63263	55.25954	22.64153	0.0381328	0.22494962	2.6776011	21	10 12.4	19.6
322378 2011 MV_{9}	12.6	X	298.70601	43.51848	269.51965	16.31060	0.1285558	0.08163715	5.2627267	21	5 12.5	19.5
322379 2011 OZ_{12}	13.4	X	223.05074	151.72686	245.67669	4.15960	0.1094703	0.08211108	5.2424570	21	5 31.9	20.7
322380 2011 OB_{25}	17.2	X	240.94241	197.08876	120.62317	2.37668	0.1997007	0.26489459	2.4011575	21	2 25.1	20.9
322381 2011 OW_{54}	15.4	X	263.77319	190.10455	105.72425	10.88643	0.0968897	0.16835091	3.2483220	21	3 15.9	20.4
322382 2011 QD_{6}	15.3	X	76.75187	305.53975	210.25659	10.81095	0.0104969	0.17444656	3.1722041	21	5 3.9	19.8
322383 2011 QB_{10}	16.2	X	306.01745	141.21346	296.48222	2.69257	0.0713986	0.20933813	2.8091213	21	11 7.6	19.7
322384 2011 QR_{17}	16.5	X	43.15677	173.73748	178.10410	3.98930	0.1102032	0.21420895	2.7663745	21	12 14.8	20.2
322385 2011 QJ_{22}	17.6	X	300.22697	333.00544	306.35043	1.99969	0.1925434	0.27035635	2.3687088	21	3 5.6	20.9
322386 2011 QY_{34}	14.7	X	6.97373	309.70921	275.57935	14.62184	0.1463200	0.17117959	3.2124378	21	4 24.9	18.8
322387 2011 QT_{35}	16.4	X	10.64248	247.99182	145.10580	6.08530	0.0810704	0.21330939	2.7741465	21	12 18.8	20.0
322388 2011 QY_{38}	17.5	X	265.63350	214.35132	102.59520	2.51927	0.1892820	0.27107681	2.3645099	21	3 19.3	20.9
322389 2011 QX_{39}	16.4	X	53.34735	190.29934	137.84719	5.90232	0.1262285	0.21158821	2.7891705	21	11 30.7	20.3
322390 Planes de Son	15.6	X	250.55040	150.29000	180.98513	5.64642	0.0939476	0.16961864	3.2321164	21	4 9.4	20.4
322391 2011 QM_{47}	16.9	X	252.80855	240.19525	30.18142	0.32013	0.1970777	0.25839482	2.4412571	21	1 9.5	20.8
322392 2011 QU_{50}	15.4	X	23.61406	12.11824	219.07100	7.52515	0.0408177	0.17835584	3.1256799	21	6 1.2	19.6
322393 2011 QA_{57}	17.3	X	92.97719	133.04259	224.17456	1.29610	0.1000055	0.23003937	2.6379584	21	—	—
322394 2011 QU_{58}	16.5	X	333.61007	13.24331	7.72618	1.76923	0.0797454	0.20273578	2.8697834	21	10 5.2	19.8
322395 2011 QY_{58}	15.7	X	14.79927	117.60776	160.94220	11.51264	0.1091219	0.19134628	2.9825613	21	7 23.2	19.5
322396 2011 QB_{74}	16.6	X	12.34271	179.86191	172.29464	2.09010	0.0797637	0.20544894	2.8444619	21	10 27.9	20.1
322397 2011 QQ_{83}	16.1	X	331.32878	241.29617	147.35027	2.62324	0.0795860	0.20385512	2.8592687	21	10 13.2	19.5
322398 2011 QR_{94}	17.0	X	217.23398	25.17588	219.24932	5.81404	0.0860032	0.23563611	2.5960207	21	—	—
322399 2011 QM_{95}	15.2	X	297.08422	195.91203	141.48831	19.43151	0.1257310	0.18223378	3.0811781	21	6 9.6	19.7
322400 2011 QZ_{96}	17.8	X	40.93852	85.04384	163.21738	3.18927	0.1735928	0.28849102	2.2683733	21	8 9.2	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322401 2011 QC_{97}	16.1	X	13.06861	44.49447	34.43197	16.78308	0.2404135	0.22058790	2.7127822	21	—	—
322402 2011 RE_{6}	18.2	X	51.61985	303.02270	314.60308	1.74733	0.1130562	0.29354109	2.2422814	21	9 1.1	20.6
322403 2011 RH_{10}	16.1	X	333.40154	80.94682	220.04294	3.96557	0.1055736	0.18221380	3.0814033	21	6 15.1	19.8
322404 2011 RD_{14}	15.7	X	221.86969	193.51664	211.65431	7.22623	0.1580303	0.17192016	3.2032058	21	6 3.4	20.9
322405 2011 RB_{18}	16.9	X	326.40426	143.07844	274.24865	1.04615	0.0536136	0.20470173	2.8513797	21	11 11.8	20.6
322406 2011 SX_{26}	15.7	X	102.65843	306.53770	334.19896	11.51944	0.1125955	0.21260150	2.7803011	21	11 21.5	20.2
322407 2011 SC_{36}	16.4	X	332.70693	234.85660	73.10881	2.93877	0.0798661	0.17688177	3.1430214	21	6 25.9	20.3
322408 2011 SX_{36}	16.2	X	314.60535	205.35857	157.25225	5.95048	0.1153924	0.18456182	3.0552128	21	8 5.5	19.9
322409 2011 SD_{51}	15.4	X	8.22415	20.10537	276.98913	8.00421	0.1163205	0.18426231	3.0585228	21	8 5.7	19.1
322410 2011 SJ_{57}	17.0	X	149.43897	129.85927	46.01183	8.32507	0.0460595	0.27972606	2.3155141	21	9 11.7	20.1
322411 2011 SX_{66}	16.1	X	76.91983	77.85708	243.90831	8.04553	0.1005198	0.21187205	2.7866789	21	12 15.5	20.1
322412 2011 SX_{67}	16.7	X	186.60708	155.47550	221.50264	6.89140	0.1383489	0.25675855	2.4516178	21	3 19.9	20.5
322413 2011 SO_{83}	16.7	X	30.40300	104.78217	282.76701	0.41273	0.1052370	0.21292419	2.7774913	21	—	—
322414 2011 SM_{87}	15.8	X	291.37705	7.72940	358.38934	10.21932	0.1421308	0.17992894	3.1074348	21	7 4.6	20.2
322415 2011 SA_{88}	16.8	X	44.17765	74.25022	303.33439	3.03214	0.1336899	0.21397378	2.7684011	21	—	—
322416 2011 SQ_{92}	16.2	X	302.38214	251.36387	258.79479	1.05615	0.0219587	0.21908675	2.7251598	21	—	—
322417 2011 SV_{96}	17.5	X	205.58022	58.82856	339.38677	1.95410	0.2075180	0.26348081	2.4097393	21	5 4.5	21.6
322418 2011 SX_{102}	16.2	X	60.47975	324.83069	17.56814	5.05230	0.1368463	0.21427323	2.7658212	21	12 27.5	20.2
322419 2011 SR_{106}	17.4	X	257.57397	144.11526	249.22223	2.76587	0.1506046	0.27688819	2.3313086	21	6 23.7	20.6
322420 2011 ST_{108}	17.1	X	277.32899	129.19347	149.55527	1.55898	0.1738418	0.26304593	2.4123945	21	2 11.9	20.7
322421 2011 SY_{125}	14.9	X	5.42860	111.39703	208.91927	11.42682	0.0581819	0.18384366	3.0631642	21	8 27.9	19.1
322422 2011 SV_{131}	16.8	X	124.02182	136.38267	185.25077	5.44765	0.1842973	0.22266472	2.6958875	21	—	—
322423 2011 SJ_{144}	17.3	X	239.13577	176.04645	152.57689	4.02765	0.1021889	0.25972786	2.4328968	21	3 14.5	20.9
322424 2011 SZ_{154}	16.6	X	100.43565	154.81966	166.68452	5.17444	0.1080405	0.21948535	2.7218594	21	—	—
322425 2011 SB_{170}	17.5	X	279.33859	175.93842	144.48554	0.41261	0.1778052	0.26870939	2.3783777	21	4 7.7	20.6
322426 2011 SQ_{180}	16.6	X	319.44782	113.40552	18.13490	4.11324	0.0376412	0.21983467	2.7189753	21	—	—
322427 2011 ST_{181}	16.9	X	98.77000	329.60384	231.69558	4.81040	0.0777016	0.27807818	2.3246529	21	8 9.1	19.9
322428 2011 SS_{196}	16.6	X	85.75786	288.75636	335.06584	1.18513	0.0332112	0.20041119	2.8919320	21	10 4.6	20.5
322429 2011 SW_{197}	17.0	X	50.70459	17.45539	327.49799	2.58984	0.0621622	0.21285834	2.7780642	21	12 7.9	20.8
322430 2011 SR_{203}	16.0	X	49.11117	242.02822	125.24466	14.90989	0.1489820	0.21593878	2.7515809	21	—	—
322431 2011 SP_{208}	16.4	X	350.04610	109.88572	250.50650	4.21725	0.1329591	0.19846843	2.9107736	21	10 2.4	19.8
322432 2011 SQ_{214}	17.0	X	209.97982	212.35812	202.69145	6.29296	0.1058552	0.26745558	2.3858050	21	6 3.8	20.6
322433 2011 SE_{220}	17.1	X	255.52591	222.47116	93.94312	3.41723	0.2217206	0.26490799	2.4010766	21	3 7.8	20.9
322434 2011 SM_{221}	16.6	X	54.75879	341.35127	27.73517	7.24060	0.0480447	0.21702203	2.7424170	21	—	—
322435 2011 SH_{228}	16.8	X	19.32569	290.37999	314.73245	5.19260	0.0686658	0.27230513	2.3573940	21	6 10.3	19.3
322436 2011 SP_{247}	15.8	X	71.19285	139.56735	179.66315	11.09475	0.0577306	0.19813323	2.9140556	21	11 29.7	20.1
322437 2011 SK_{256}	15.8	X	351.60467	217.90287	61.73676	6.44086	0.1598574	0.17397408	3.1779449	21	6 13.6	19.4
322438 2011 SD_{257}	17.1	X	57.15717	128.82772	344.04342	2.72600	0.1743654	0.23622833	2.5916801	21	2 16.6	19.4
322439 2011 SS_{257}	17.2	X	210.71578	320.30649	163.93207	1.67705	0.0722354	0.19153587	2.9805927	21	9 3.9	21.4
322440 2011 SW_{257}	16.7	X	158.49453	199.33350	85.39251	3.64451	0.1602112	0.22173920	2.7033839	21	—	—
322441 2011 SO_{258}	16.4	X	113.85858	206.43823	108.36040	1.73185	0.0656457	0.21368494	2.7708953	21	—	—
322442 2011 TT_{2}	15.7	X	334.05330	335.00511	10.74502	13.22000	0.0418351	0.18514293	3.0488166	21	8 25.4	19.9
322443 2011 TT_{10}	17.2	X	309.32427	66.96684	200.21354	1.77469	0.1714538	0.26650441	2.3914783	21	3 4.5	20.3
322444 2011 TK_{13}	16.2	X	188.21447	3.74097	293.30437	14.23900	0.1933418	0.24113442	2.5564065	21	—	—
322445 2011 TS_{14}	16.7	X	281.05311	248.81540	151.51266	2.55775	0.1690111	0.18355164	3.0664122	21	7 29.4	20.8
322446 2011 UU_{2}	16.9	X	94.22129	124.18742	259.18269	2.97792	0.1513384	0.22752498	2.6573576	21	—	—
322447 2011 UF_{7}	16.7	X	137.56811	109.16826	211.81610	1.56619	0.0310535	0.21982438	2.7190601	21	—	—
322448 2011 UZ_{8}	15.8	X	15.27136	268.55819	50.89443	9.38139	0.1413649	0.18701117	3.0284775	21	9 26.9	19.5
322449 2011 UR_{9}	17.1	X	293.73430	144.42518	212.90666	2.90944	0.1020707	0.27532297	2.3401359	21	6 30.1	19.7
322450 2011 UD_{13}	15.7	X	185.85029	357.04612	42.66072	6.58365	0.1006387	0.15515377	3.4300029	21	4 26.3	20.9
322451 2011 UV_{13}	16.6	X	7.17343	338.57284	298.41662	6.25136	0.1103093	0.27779776	2.3262170	21	7 10.4	18.6
322452 2011 UF_{17}	16.3	X	238.02093	308.32400	264.42378	3.84471	0.0429910	0.21519549	2.7579133	21	—	—
322453 2011 UW_{20}	16.8	X	20.70604	123.69074	82.78448	6.71658	0.1538590	0.26303435	2.4124653	21	4 19.8	18.9
322454 2011 UV_{33}	15.7	X	277.37231	41.51108	356.72084	9.96761	0.0725045	0.18208748	3.0828282	21	8 8.9	20.0
322455 2011 UG_{36}	17.6	X	120.22900	23.08715	109.55466	2.40966	0.1349641	0.25654845	2.4529562	21	6 10.9	21.0
322456 2011 UQ_{47}	15.6	X	321.00719	334.95544	29.20838	4.21378	0.0363310	0.18189272	3.0850284	21	8 27.6	19.7
322457 2011 US_{47}	16.2	X	32.50877	23.49298	240.77758	4.90226	0.0239076	0.17377227	3.1804048	21	7 23.5	20.7
322458 2011 UA_{52}	16.0	X	164.32437	302.81234	205.93577	9.39717	0.0225957	0.17603000	3.1531521	21	8 10.1	20.7
322459 2011 UF_{53}	15.9	X	339.14917	282.62818	71.16281	10.41207	0.1051405	0.18449423	3.0559590	21	9 10.7	19.8
322460 2011 UE_{55}	16.7	X	128.73960	122.20405	205.57849	1.78997	0.0890956	0.21867257	2.7285998	21	—	—
322461 2011 UA_{56}	16.6	X	192.86713	22.01804	257.16656	3.06620	0.0471956	0.22250090	2.6972107	21	—	—
322462 2011 UV_{57}	16.7	X	224.25874	113.43323	146.37439	2.67464	0.1148313	0.23110750	2.6298240	21	—	—
322463 2011 UR_{61}	16.7	X	135.94550	212.29708	200.53005	4.26944	0.1217269	0.24088531	2.5581687	21	3 13.9	20.4
322464 2011 UP_{107}	16.2	X	60.93521	126.47335	142.54090	12.20078	0.0713262	0.18752913	3.0228984	21	9 16.8	20.4
322465 2011 UB_{113}	16.1	X	198.48896	300.77383	215.07345	4.61022	0.1483711	0.18218934	3.0816790	21	9 22.9	21.2
322466 2011 US_{114}	15.6	X	355.86001	267.02445	73.83881	11.70663	0.1068771	0.18390490	3.0624841	21	9 22.2	19.5
322467 2011 UF_{129}	15.1	X	180.82203	128.30482	224.79853	9.00572	0.1112383	0.14783412	3.5423075	21	2 23.8	20.8
322468 2011 UP_{138}	15.6	X	220.51208	335.74302	249.39945	12.69159	0.0360458	0.21681530	2.7441601	21	—	—
322469 2011 UT_{148}	16.8	X	41.89392	20.71138	227.94891	4.05193	0.1131280	0.27542140	2.3395784	21	7 30.4	19.3
322470 2011 UZ_{177}	16.7	X	163.20608	127.55286	149.20243	3.19814	0.1550293	0.21637789	2.7478570	21	—	—
322471 2011 UQ_{187}	15.7	X	311.28190	232.92267	141.23302	6.95677	0.0985320	0.18407347	3.0606142	21	8 18.8	19.5
322472 2011 UT_{187}	15.6	X	299.02789	239.95066	98.22307	8.82394	0.0928745	0.17254905	3.1954179	21	6 15.2	19.8
322473 2011 UZ_{187}	16.3	X	260.28942	284.35449	325.95013	8.18761	0.1679313	0.24340149	2.5405080	21	—	—
322474 2011 UF_{192}	16.5	X	8.43676	356.02991	331.39025	1.12231	0.1958521	0.19116260	2.9844714	21	9 26.5	19.5
322475 2011 UZ_{194}	15.5	X	306.07298	126.38974	246.08572	7.57708	0.1636008	0.17940744	3.1134538	21	7 27.6	19.5
322476 2011 UR_{202}	16.9	X	79.13330	159.50893	206.87342	4.21567	0.0867736	0.21443530	2.7644275	21	—	—
322477 2011 UO_{203}	17.4	X	10.25886	206.14544	91.23053	4.37253	0.1858950	0.28075428	2.3098572	21	8 29.9	19.1
322478 2011 UH_{206}	17.0	X	302.69063	235.07831	97.51925	4.03940	0.1926438	0.27838385	2.3229509	21	5 23.1	19.6
322479 2011 UY_{216}	17.5	X	233.92572	143.41204	30.10103	4.34320	0.0526826	0.30431049	2.1890622	21	12 26.7	19.9
322480 2011 UK_{221}	17.2	X	216.99311	233.68819	40.25993	4.00049	0.0689071	0.23421309	2.6065253	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322481 2011 UV_{231}	16.4	X	26.46540	263.12892	1.21002	1.33275	0.1529399	0.17976531	3.1093202	21	7 29.3	20.0
322482 2011 UN_{239}	16.2	X	155.66246	66.39004	237.82023	4.36467	0.0337432	0.21822868	2.7322986	21	—	—
322483 2011 UN_{247}	16.1	X	279.42495	147.77639	225.23603	4.60865	0.0431403	0.16940776	3.2347982	21	7 10.1	20.7
322484 2011 UE_{250}	16.3	X	317.04312	353.79407	229.79252	7.27430	0.0843440	0.23784757	2.5799042	21	2 1.2	19.8
322485 2011 UX_{251}	16.4	X	50.50144	305.56867	189.97758	3.98401	0.0947209	0.23676491	2.5877629	21	2 28.2	19.2
322486 2011 UA_{252}	17.0	X	91.69142	161.71359	79.09670	8.42296	0.0446129	0.28126648	2.3070521	21	9 27.8	20.0
322487 2011 UN_{253}	17.4	X	293.12983	219.87446	161.03481	2.88399	0.1754649	0.27990797	2.3145107	21	7 21.8	19.9
322488 2011 UA_{268}	16.8	X	258.42963	305.06212	77.51814	6.75761	0.1101659	0.27196739	2.3593452	21	6 15.2	19.7
322489 2011 UJ_{269}	15.8	X	315.19853	142.46656	211.20752	9.57435	0.0932348	0.18003196	3.1062493	21	7 25.8	20.0
322490 2011 UT_{296}	16.3	X	1.00937	128.77804	213.77122	8.60211	0.0990671	0.18909910	3.0061438	21	9 23.9	20.0
322491 2011 UE_{297}	16.7	X	116.47950	205.89048	106.29677	1.64504	0.0629146	0.21360345	2.7715999	21	—	—
322492 2011 UZ_{300}	16.9	X	129.39164	75.51259	268.10624	0.77536	0.0797640	0.22643132	2.6659073	21	—	—
322493 2011 UN_{302}	15.5	X	282.86011	78.48127	288.01200	10.38502	0.0273102	0.17332420	3.1858837	21	7 9.4	19.9
322494 2011 UN_{322}	16.5	X	173.47348	7.33076	332.18153	12.14636	0.2779096	0.24247856	2.5469504	21	2 3.9	21.0
322495 2011 UP_{362}	16.6	X	152.70528	151.87304	295.26378	7.22954	0.0635076	0.25871473	2.4392442	21	5 8.5	20.0
322496 2011 UL_{374}	16.5	X	143.80299	346.93299	76.42879	8.80498	0.0915255	0.25530017	2.4609454	21	4 6.2	20.0
322497 2011 UV_{390}	16.3	X	295.09800	261.84275	156.59169	12.37019	0.0251038	0.19030906	2.9933885	21	10 4.2	20.4
322498 2011 UC_{398}	16.2	X	207.63492	224.06818	32.52072	12.53280	0.2455944	0.22633094	2.6666955	21	—	—
322499 2011 UV_{399}	16.1	X	345.79658	137.10129	182.72564	7.85660	0.0494118	0.17888112	3.1195579	21	7 31.2	20.3
322500 2011 VX_{2}	16.1	X	12.69236	279.03603	61.66999	9.35719	0.0215952	0.19228755	2.9728199	21	10 10.1	20.2
322501 2011 VO_{9}	15.5	X	52.22177	116.97950	112.25610	13.24764	0.0395542	0.17135911	3.2101937	21	7 7.9	19.8
322502 2011 WW_{2}	16.1	X	78.41693	332.28435	27.96652	8.94526	0.0483284	0.21521137	2.7577776	21	—	—
322503 2011 WH_{9}	17.6	X	276.65070	214.18758	62.25555	3.82781	0.0654321	0.24463752	2.5319435	21	2 24.9	21.2
322504 2011 WF_{14}	15.6	X	307.16297	347.51363	49.98738	15.29182	0.1841207	0.18450659	3.0558225	21	9 10.5	19.5
322505 2011 WC_{15}	16.2	X	2.77456	249.65243	198.13587	8.80183	0.1394868	0.21319678	2.7751234	21	—	—
322506 2011 WR_{16}	16.2	X	146.72474	315.12225	49.53620	6.21474	0.3076095	0.23582086	2.5946646	21	2 16.6	20.6
322507 2011 WO_{27}	15.2	X	261.66230	275.09877	228.94679	11.59097	0.1696045	0.19319320	2.9635221	21	11 14.4	19.1
322508 2011 WD_{63}	17.4	X	78.06794	37.44719	15.91701	0.66089	0.0959730	0.22350522	2.6891247	21	—	—
322509 2011 WE_{65}	16.9	X	119.08001	167.38664	246.59914	1.01328	0.1038733	0.23457285	2.6038596	21	2 22.1	20.4
322510 Heinrichgrüber	16.4	X	181.93777	17.51025	318.31125	4.43342	0.1938955	0.23786371	2.5797875	21	1 31.7	20.6
322511 2011 WN_{78}	16.0	X	358.82073	18.55970	79.35956	14.14540	0.0495875	0.21163613	2.7887496	21	—	—
322512 2011 WJ_{98}	17.1	X	53.21856	158.06673	70.83855	3.22088	0.1616786	0.26382870	2.4076205	21	7 30.2	19.7
322513 2011 WZ_{104}	15.6	X	307.45945	211.75514	128.24484	5.35828	0.1683856	0.17138155	3.2099136	21	6 18.4	19.7
322514 2011 WK_{114}	15.7	X	25.07007	356.85130	92.87691	13.28817	0.0965788	0.21722219	2.7407321	21	—	—
322515 2011 WQ_{141}	16.2	X	316.07846	338.98916	68.99956	9.44868	0.0338906	0.18992383	2.9974348	21	10 19.1	20.3
322516 2011 WX_{148}	16.8	X	13.29870	344.64616	284.61767	17.20572	0.0620413	0.35625899	1.9707226	21	7 7.5	18.0
322517 2011 YH_{1}	17.3	X	277.23525	7.38191	87.34577	5.72957	0.0800554	0.28499332	2.2868952	21	11 3.3	19.7
322518 2011 YU_{2}	15.0	X	259.23326	186.09946	286.18926	15.56172	0.0415726	0.18038289	3.1022193	21	10 11.8	19.8
322519 2011 YJ_{4}	13.1	X	320.42624	319.54631	113.68932	10.23043	0.0316621	0.08302026	5.2041124	21	11 8.1	19.9
322520 2011 YD_{8}	13.5	X	294.90040	192.59032	271.95438	11.89733	0.0362258	0.08375218	5.1737484	21	11 6.9	20.4
322521 2011 YK_{11}	15.5	X	212.17085	81.34859	96.30139	15.61851	0.1863727	0.17738529	3.1370707	21	11 4.4	20.7
322522 2011 YM_{11}	15.9	X	64.61610	1.48465	97.00535	11.32886	0.1100890	0.22178530	2.7030093	21	2 9.1	19.1
322523 2011 YX_{11}	15.8	X	58.79999	304.53391	112.96251	10.60808	0.1684863	0.21273603	2.7791288	21	—	—
322524 2011 YS_{14}	13.0	X	93.63128	192.31778	102.29912	13.11257	0.0767938	0.08134340	5.2753893	21	11 13.4	20.2
322525 2011 YK_{15}	13.4	X	21.36387	105.64448	280.71951	15.49680	0.0550498	0.08365505	5.1777525	21	11 24.9	20.1
322526 2011 YZ_{16}	16.8	X	136.82923	109.63187	288.96194	11.92781	0.2734430	0.23301231	2.6154724	21	3 9.2	21.2
322527 2011 YD_{17}	16.9	X	175.65834	295.31879	92.16544	4.40183	0.1454561	0.23614305	2.5923041	21	3 29.3	20.9
322528 2011 YG_{17}	17.8	X	180.06070	100.88546	3.00157	1.45979	0.1374597	0.25622950	2.4549913	21	7 6.5	21.4
322529 2011 YG_{19}	16.5	X	245.39971	112.46666	59.47086	4.28138	0.1067230	0.19060558	2.9902832	21	12 6.6	20.7
322530 2011 YS_{19}	17.5	X	137.39487	66.34236	131.46985	0.95464	0.1583974	0.26625133	2.3929935	21	9 26.2	21.1
322531 2011 YP_{20}	18.0	X	238.12139	280.21404	239.59974	1.17658	0.1047692	0.28752366	2.2734583	21	12 1.1	20.7
322532 2011 YQ_{20}	17.7	X	86.01389	315.71119	157.69302	2.10141	0.1299798	0.23261433	2.6184548	21	4 2.2	20.9
322533 2011 YC_{21}	17.1	X	37.00442	62.80051	126.80655	7.15503	0.1111752	0.23698236	2.5861797	21	4 28.7	20.0
322534 2011 YD_{21}	17.0	X	80.97676	89.46906	134.44591	4.38250	0.1010806	0.25952430	2.4341688	21	8 22.4	20.1
322535 2011 YO_{24}	18.0	X	241.35107	142.79663	340.26646	2.26301	0.1408541	0.27969712	2.3156738	21	10 7.9	20.9
322536 2011 YS_{25}	15.3	X	156.15572	106.25390	115.84305	10.45618	0.0403334	0.17774893	3.1327908	21	11 6.4	20.1
322537 2011 YR_{26}	16.1	X	81.49731	283.35112	130.80769	17.44532	0.1382177	0.21327981	2.7744031	21	1 11.1	19.5
322538 2011 YN_{27}	13.3	X	354.79617	269.95680	130.26791	5.93851	0.0646253	0.08126941	5.2785907	21	11 10.4	20.0
322539 2011 YS_{27}	17.1	X	86.52704	171.80942	268.02957	3.07685	0.1587976	0.22515270	2.6759907	21	2 20.4	20.3
322540 2011 YR_{29}	13.3	X	260.82420	234.53776	254.52221	6.06413	0.0123350	0.08111213	5.2854119	21	10 30.4	20.3
322541 2011 YD_{31}	16.5	X	353.62229	29.21609	155.33499	2.80077	0.0166442	0.22256814	2.6966674	21	2 14.3	20.2
322542 2011 YY_{33}	16.8	X	234.70882	269.36372	65.66130	5.55362	0.2074648	0.23999695	2.5644776	21	3 17.3	21.1
322543 2011 YZ_{34}	15.6	X	157.79521	187.44789	101.01225	12.42213	0.0609376	0.19924425	2.9032127	21	—	—
322544 2011 YJ_{35}	16.5	X	25.55234	113.42264	335.63665	4.31576	0.0922855	0.20861229	2.8156334	21	—	—
322545 2011 YM_{35}	16.4	X	86.69670	315.15571	89.80427	6.85174	0.0716036	0.21354950	2.7720667	21	—	—
322546 2011 YP_{35}	13.5	X	333.63468	333.04549	96.92457	5.43998	0.0991616	0.08377701	5.1727261	21	11 14.9	19.9
322547 2011 YC_{37}	16.0	X	208.73730	229.87413	321.36096	5.59053	0.0679530	0.18265933	3.0763905	21	11 20.5	20.7
322548 2011 YD_{37}	17.6	X	184.63218	334.73464	148.31115	2.43370	0.1649506	0.26163368	2.4210678	21	8 4.5	21.2
322549 2011 YX_{37}	16.6	X	235.53257	139.27263	236.71676	2.54127	0.2034347	0.25191878	2.4829179	21	5 3.8	20.7
322550 2011 YT_{45}	14.0	X	275.39652	123.05445	8.17543	6.24795	0.0577979	0.08233910	5.2327740	21	11 11.9	21.0
322551 2011 YC_{46}	15.8	X	254.53824	139.81006	336.66843	7.27760	0.0980587	0.17789552	3.1310695	21	10 7.9	20.3
322552 2011 YT_{46}	15.9	X	355.70381	322.28637	97.94965	10.71456	0.0733601	0.19242282	2.9714266	21	12 25.8	19.6
322553 2011 YQ_{50}	13.4	X	322.57724	297.87530	124.91175	6.33999	0.0414719	0.07975659	5.3451306	21	10 27.9	20.3
322554 2011 YO_{52}	15.5	X	243.08119	107.72356	353.51917	13.21323	0.2430185	0.17078436	3.2173921	21	8 25.5	20.6
322555 2011 YQ_{53}	14.0	X	279.41290	196.62092	290.09516	6.43160	0.0587286	0.08221252	5.2381439	21	11 11.3	21.0
322556 2011 YW_{53}	16.4	X	184.33397	234.08164	119.60349	16.13599	0.1327123	0.22941222	2.6427638	21	2 25.1	20.7
322557 2011 YY_{53}	15.4	X	273.71667	0.03689	81.32298	27.09584	0.1304152	0.17376974	3.1804356	21	10 2.3	20.4
322558 2011 YC_{54}	15.7	X	351.16805	264.99888	117.94923	17.67540	0.1267050	0.18341641	3.0679192	21	11 10.3	19.7
322559 2011 YH_{55}	15.7	X	120.61516	152.60898	79.24236	5.73339	0.0956372	0.17153390	3.2080126	21	10 11.8	20.6
322560 2011 YK_{58}	13.7	X	299.70962	346.49867	114.48908	16.36602	0.1298298	0.08246703	5.2273607	21	11 6.5	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322561 2011 YL_{58}	16.3	X	208.97766	156.73253	100.92214	3.37887	0.0246840	0.20449917	2.8532622	21	—	—
322562 2011 YH_{59}	16.7	X	262.65262	257.17268	107.70598	4.77943	0.1196366	0.25410819	2.4686354	21	5 27.3	20.0
322563 2011 YN_{59}	15.7	X	90.29227	158.84174	122.41644	10.58671	0.0437610	0.17694746	3.1422434	21	11 3.7	20.4
322564 2011 YX_{60}	17.1	X	131.00402	327.88840	159.17472	6.62765	0.0735797	0.24698220	2.5158936	21	6 9.9	20.6
322565 2011 YZ_{60}	17.3	X	147.28026	326.37686	202.51130	3.23197	0.1749376	0.25982280	2.4323041	21	8 28.0	21.2
322566 2011 YH_{63}	15.7	X	84.72692	37.54179	280.20827	9.06499	0.0621243	0.18649779	3.0340327	21	12 10.4	20.2
322567 2011 YP_{63}	17.8	X	146.86622	297.73984	138.06559	13.59558	0.2192059	0.34973925	1.9951389	21	5 2.7	20.9
322568 2011 YF_{64}	13.7	X	320.55838	334.62823	110.02471	22.77566	0.1197312	0.08413897	5.1578803	21	11 18.7	20.3
322569 2011 YQ_{65}	13.7	X	263.47425	225.20941	283.32989	11.66623	0.0651567	0.08314285	5.1989957	21	11 16.6	20.7
322570 2011 YG_{67}	13.0	X	333.40460	322.25097	113.94265	21.60757	0.0741649	0.08349008	5.1845707	21	11 27.1	19.7
322571 2011 YO_{73}	14.1	X	280.58404	60.65510	63.37161	3.78220	0.0720525	0.08133617	5.2757016	21	11 9.9	21.0
322572 2011 YW_{73}	16.9	X	149.90923	22.38669	124.99943	6.96279	0.1295830	0.25643067	2.4537072	21	8 1.9	20.6
322573 2012 AL_1	16.4	X	133.44265	280.96969	112.01733	13.61136	0.1738229	0.22961314	2.6412219	21	2 26.6	20.4
322574 Werckmeister	16.5	X	189.37797	216.76544	147.29046	6.66233	0.3748119	0.24131924	2.5551010	21	3 17.5	21.4
322575 2012 AQ_6	17.7	X	311.08297	281.94363	133.17394	4.82697	0.1602263	0.28378049	2.2934065	21	10 27.5	19.5
322576 2012 AX_6	18.2	X	209.66945	329.60803	151.44355	2.83549	0.1614904	0.26885094	2.3775428	21	8 27.3	21.7
322577 2012 AF_7	15.5	X	171.72832	15.66600	159.20583	5.35586	0.0598085	0.16814033	3.2510335	21	9 23.4	20.3
322578 2012 AJ_7	15.9	X	204.88681	20.90018	297.08848	4.82620	0.0131795	0.21599650	2.7510907	21	1 28.8	19.6
322579 2012 AU_7	15.5	X	178.94145	263.38889	283.48525	8.03217	0.0366499	0.17500194	3.1654890	21	10 12.3	20.4
322580 2012 AQ_9	15.5	X	180.69137	320.81961	281.01674	14.00896	0.2661279	0.18179395	3.0861457	21	12 12.3	20.9
322581 2012 AT_9	17.4	X	206.41587	21.57079	159.19432	5.55013	0.0919346	0.28236596	2.3010594	21	11 20.9	20.5
322582 2012 AD_{13}	15.4	X	149.66876	129.63727	111.57223	10.52364	0.0244833	0.18122351	3.0926186	21	11 21.2	20.0
322583 2012 AD_{19}	17.6	X	214.83149	287.31018	299.53734	5.02127	0.1671160	0.29175656	2.2514154	21	—	—
322584 2012 BV	13.0	X	342.74140	100.65967	315.75104	16.06035	0.1716508	0.08434168	5.1496123	21	11 3.5	19.2
322585 2012 BS_5	16.1	X	178.06678	198.37981	115.60272	7.32975	0.0737178	0.21228034	2.7831046	21	—	—
322586 2012 BA_{12}	15.5	X	318.10720	326.12950	112.86630	17.76497	0.0739509	0.18544429	3.0455126	21	11 28.0	19.7
322587 2012 BT_{12}	15.5	X	315.69592	308.98283	102.45880	11.47732	0.0382964	0.17669983	3.1451784	21	10 22.6	19.9
322588 2012 BY_{14}	16.0	X	317.26064	303.57143	142.34138	10.03760	0.1187349	0.18473979	3.0532504	21	11 30.5	19.9
322589 2012 BZ_{14}	17.2	X	82.94566	1.60802	279.05449	2.20600	0.0973363	0.27235365	2.3571140	21	11 9.7	20.4
322590 2012 BM_{15}	15.8	X	214.36201	72.34091	99.41020	4.34129	0.1257702	0.17631553	3.1497470	21	10 31.1	20.7
322591 2012 BS_{18}	17.3	X	161.74068	319.20025	300.94630	4.39522	0.1263774	0.28644333	2.2791710	21	—	—
322592 2012 BU_{20}	15.7	X	7.64159	219.77789	288.01792	9.29491	0.1121688	0.21474573	2.7617627	21	1 10.7	18.9
322593 2012 BE_{21}	16.3	X	248.08288	256.08733	226.54538	5.79943	0.1360325	0.17298626	3.1900315	21	10 3.3	20.9
322594 2012 BG_{21}	16.9	X	109.15082	340.39546	172.56278	12.31241	0.0226210	0.24397752	2.5365077	21	6 10.5	20.5
322595 2012 BT_{21}	16.0	X	282.15086	26.25921	267.45862	9.49256	0.0737101	0.23597615	2.5935262	21	3 18.9	19.7
322596 2012 BG_{22}	16.6	X	224.48683	198.68064	189.43969	3.24264	0.2007475	0.25338439	2.4733343	21	5 10.2	20.6
322597 2012 BZ_{22}	17.4	X	150.71063	41.77881	118.06095	3.30152	0.1292840	0.26190456	2.4193982	21	8 20.0	21.0
322598 2012 BP_{24}	17.2	X	183.78995	244.84372	276.85697	2.17084	0.1212612	0.26703794	2.3882919	21	9 24.1	20.6
322599 2012 BY_{24}	15.4	X	252.06588	5.53358	122.70562	12.44764	0.0902814	0.18015260	3.1048624	21	10 28.8	20.0
322600 2012 BD_{26}	16.2	X	313.62580	162.54615	244.69847	2.38383	0.0292245	0.17655614	3.1468847	21	10 8.7	20.5
322601 2012 BX_{30}	17.8	X	284.57524	186.99270	346.96900	2.99130	0.0426069	0.30485682	2.1864461	21	—	—
322602 2012 BV_{53}	16.9	X	14.86988	247.63005	125.00987	7.85321	0.1336920	0.28322691	2.2963939	21	12 22.6	19.4
322603 2012 BQ_{56}	17.1	X	120.56212	2.20138	210.58922	0.54899	0.1369761	0.26424171	2.4051110	21	9 26.9	20.6
322604 2012 BA_{63}	17.2	X	78.66225	194.17449	224.56555	2.84852	0.0809694	0.21558806	2.7545643	21	1 4.9	20.7
322605 2012 BO_{96}	13.2	X	312.88032	110.68695	327.87835	17.50969	0.0405464	0.08078602	5.2996261	21	10 23.7	20.2
322606 4714 $P–L$	15.9	X	294.96299	314.74682	0.31293	15.20182	0.2375187	0.22279074	2.6948708	21	4 10.9	19.8
322607 6185 $P–L$	16.3	X	19.46155	22.24014	353.41015	8.43797	0.2360562	0.17933903	3.1142454	21	12 22.5	20.2
322608 6363 $P–L$	17.2	X	342.04006	341.01715	350.02902	1.90002	0.2250070	0.27401054	2.3476024	21	8 11.9	18.5
322609 1406 $T–2$	17.5	X	7.79367	171.13296	192.17778	6.47713	0.1863357	0.28938406	2.2637040	21	12 8.5	19.7
322610 1438 $T–2$	15.4	X	147.41473	359.48441	1.34656	13.48679	0.0765340	0.17332760	3.1858420	21	2 1.7	20.3
322611 3506 $T–3$	17.6	X	359.91750	350.24642	20.12281	6.97453	0.1998359	0.29271052	2.2465211	21	12 5.9	19.6
322612 1989 SA_{14}	16.3	X	205.73298	101.13236	296.86302	10.22419	0.1961163	0.23612719	2.5924201	21	5 3.1	20.9
322613 1994 PV_2	17.1	X	111.36689	112.89835	163.76934	3.08023	0.2274962	0.26456515	2.4031504	21	12 11.9	21.2
322614 1994 SY_1	17.3	X	103.03489	197.99249	71.01822	2.22633	0.1689611	0.26007071	2.4307582	21	11 21.7	21.1
322615 1995 FJ_{18}	16.9	X	147.33244	277.60718	163.93203	13.32648	0.2307619	0.23358253	2.6112141	21	5 15.8	21.5
322616 1995 GW_6	16.6	X	303.03879	244.56437	57.85365	5.85767	0.1025545	0.22931863	2.6434828	21	4 29.9	19.9
322617 1995 SC_{25}	16.7	X	137.45001	276.93116	66.74022	3.06192	0.0740150	0.20347408	2.8628372	21	—	—
322618 1995 SF_{31}	16.6	X	195.68256	359.06563	356.02462	5.53008	0.1212076	0.21257180	2.7805600	21	3 8.6	20.8
322619 1995 SJ_{78}	17.5	X	147.25420	246.08093	31.69216	6.51146	0.0850732	0.27474315	2.3434272	21	—	—
322620 1995 UJ_{60}	16.8	X	119.25038	183.51198	135.62233	2.94714	0.0759991	0.19615530	2.9336121	21	—	—
322621 1995 WG_{14}	16.2	X	217.66677	181.18165	101.63167	7.22080	0.0330431	0.20130349	2.8833798	21	1 4.3	20.4
322622 1995 XD_5	17.3	X	88.31541	110.97883	217.05906	6.50942	0.1691953	0.27083049	2.3659434	21	—	—
322623 1996 EL_8	16.1	X	325.79958	155.91162	350.81092	11.21369	0.2363024	0.19054560	2.9909106	21	—	—
322624 1996 TX_{17}	16.2	X	351.83111	64.63713	216.35216	14.00822	0.0387613	0.22614240	2.6681775	21	6 18.9	19.8
322625 1996 TX_{45}	16.8	X	234.69898	304.35063	37.85681	3.39006	0.1030079	0.22038223	2.7144697	21	3 31.5	20.8
322626 1996 TO_{46}	17.0	X	102.03965	142.25251	306.20162	5.62604	0.0967456	0.21868253	2.7285169	21	3 15.9	20.8
322627 1997 HV	18.0	X	149.11762	158.93361	46.63898	2.28989	0.1319033	0.26068498	2.4269382	21	10 16.4	21.6
322628 1997 LY_5	17.0	X	158.91104	29.01277	207.62095	10.11809	0.2176626	0.26288969	2.4133502	21	12 1.6	21.2
322629 1997 TQ_{17}	18.1	X	270.61502	296.31882	343.09189	6.33104	0.3004108	0.31423872	2.1427076	21	1 23.5	21.8
322630 1998 HX_{25}	16.8	X	318.35879	181.52617	61.22765	3.97613	0.1191620	0.21186331	2.7867556	21	3 4.1	20.5
322631 1998 QA_{103}	15.2	X	96.21028	344.66405	8.32372	13.96677	0.2722944	0.18340964	3.0679948	21	—	—
322632 1998 RC_{21}	15.6	X	68.01459	176.23629	176.67061	11.58877	0.1142952	0.18051911	3.1006584	21	—	—
322633 1998 RN_{47}	15.5	X	347.52677	60.12008	337.33095	11.96126	0.2606797	0.17316027	3.1878941	21	11 15.1	18.8
322634 1998 SU_{28}	15.8	X	24.63953	34.78202	19.01576	8.41753	0.0852838	0.18072316	3.0983241	21	—	—
322635 1998 ST_{30}	16.6	X	43.39400	153.28769	178.32900	9.69500	0.2421157	0.26223501	2.4173652	21	12 17.9	20.1
322636 1998 SZ_{50}	15.9	X	89.61599	141.54938	209.19610	9.15271	0.0881025	0.18033207	3.1028021	21	—	—
322637 1998 SF_{80}	16.7	X	13.40359	4.62090	336.92459	6.42933	0.1914469	0.25962334	2.4335497	21	11 6.2	19.2
322638 1998 SG_{97}	15.9	X	38.56241	196.37050	167.04123	6.51047	0.2311779	0.17690347	3.1427643	21	12 31.9	20.3
322639 1998 SW_{101}	15.4	X	29.49626	30.96557	10.55122	17.05065	0.2053363	0.17889823	3.1193589	21	—	—
322640 1998 SV_{155}	16.6	X	84.01730	271.26634	36.65127	7.00603	0.1354910	0.26400454	2.4065512	21	12 18.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322641 1998 SW_{176}	16.8	X	74.37914	6.72204	6.53826	2.31582	0.0920248	0.18299420	3.0726364	21	—	—
322642 1998 TO_{4}	15.7	X	71.78693	347.02330	5.49354	18.46063	0.1004385	0.18042847	3.1016968	21	—	—
322643 1998 TS_{20}	17.7	X	213.76585	17.13093	31.66660	6.03402	0.1909002	0.24433427	2.5340380	21	5 26.1	21.8
322644 1998 UV_{3}	17.1	X	30.29111	73.70669	235.63421	4.21431	0.0999831	0.25595965	2.4567165	21	10 5.4	19.9
322645 1998 VM_{41}	16.6	X	279.01596	133.29061	230.85707	12.66556	0.1155408	0.24658329	2.5186063	21	6 16.1	19.9
322646 1998 WV_{29}	17.2	X	179.07171	170.19859	243.57297	4.96084	0.3139249	0.24013471	2.5634967	21	5 5.4	22.0
322647 1999 CU_{6}	15.9	X	6.62129	241.02844	333.12107	16.11871	0.2296305	0.22713313	2.6604130	21	3 22.2	18.4
322648 1999 CR_{138}	16.3	X	91.14322	41.68991	142.93957	13.89100	0.1200099	0.23519415	2.5992719	21	7 13.3	20.0
322649 1999 EO_{8}	16.6	X	261.50316	4.63254	334.37768	13.91329	0.1099157	0.23167594	2.6255206	21	4 16.2	20.6
322650 1999 GV_{56}	17.8	X	219.17849	64.69843	203.30481	4.52855	0.1370487	0.29845916	2.2175807	21	—	—
322651 1999 JP_{5}	17.3	X	221.65152	241.58199	58.25590	9.37064	0.2875486	0.29903400	2.2147379	21	1 15.8	21.4
322652 1999 JO_{8}	16.8	X	37.72085	205.95127	80.03695	24.35974	0.5747790	0.22846273	2.6500810	21	11 26.4	21.0
322653 1999 JP_{96}	16.8	X	228.39049	198.89077	90.50082	8.98924	0.2467583	0.29943768	2.2127469	21	1 6.6	20.4
322654 1999 LS_{14}	16.7	X	11.65220	111.10782	146.20664	7.91124	0.2551050	0.22552116	2.6730752	21	6 25.5	18.7
322655 1999 LC_{30}	16.6	X	314.02149	110.08578	142.85646	13.11524	0.1268153	0.21718277	2.7410637	21	3 9.4	20.2
322656 1999 LV_{35}	16.2	X	18.83908	99.60308	145.76681	13.22075	0.2346723	0.22469429	2.6796291	21	6 24.4	18.7
322657 1999 PV_{5}	17.3	X	236.12062	323.07665	163.53961	6.08081	0.0810010	0.27265891	2.3553544	21	10 16.7	20.2
322658 1999 RF_{31}	16.1	X	106.73083	348.73877	355.54530	25.80939	0.2058186	0.28221807	2.3018632	21	—	—
322659 1999 RP_{67}	17.0	X	336.22762	63.92879	317.83805	8.71681	0.2146047	0.27104044	2.3647214	21	10 20.1	18.8
322660 1999 RT_{161}	17.1	X	118.74692	347.00622	344.22992	6.12934	0.1976028	0.28500650	2.2868247	21	—	—
322661 1999 RN_{170}	17.9	X	104.27670	143.54937	173.42980	2.23970	0.2289978	0.28159184	2.3052746	21	—	—
322662 1999 RJ_{181}	17.7	X	234.99060	50.77917	173.74771	6.24999	0.1348489	0.28652806	2.2787216	21	—	—
322663 1999 RU_{185}	17.5	X	110.01379	355.78487	340.40257	2.64783	0.1850596	0.28388828	2.2928259	21	—	—
322664 1999 RM_{253}	16.8	X	12.17704	216.15210	175.44842	2.57819	0.2330280	0.18389969	3.0625420	21	12 31.5	20.4
322665 1999 SD_{21}	16.8	X	328.96999	141.53023	293.37470	2.18485	0.1773195	0.18243634	3.0788970	21	12 1.5	20.2
322666 1999 TS_{51}	16.4	X	295.80140	265.14583	244.90445	4.19194	0.0735752	0.18860308	3.0114122	21	—	—
322667 1999 TC_{79}	17.2	X	110.78227	294.20734	22.42596	7.17026	0.1342197	0.28038629	2.3118778	21	—	—
322668 1999 TP_{81}	17.2	X	175.76930	271.81217	356.95521	6.75510	0.0959855	0.28348603	2.2949943	21	—	—
322669 1999 TD_{111}	16.0	X	13.64764	65.47221	338.30590	12.43017	0.2377149	0.18528462	3.0472620	21	—	—
322670 1999 TV_{131}	17.4	X	73.28624	355.36024	348.07213	2.42126	0.2315259	0.27915240	2.3186853	21	—	—
322671 1999 TX_{131}	16.8	X	74.65779	349.07477	358.88824	4.42666	0.1445071	0.27933355	2.3176827	21	—	—
322672 1999 TE_{221}	16.7	X	109.52618	108.08484	222.06330	5.63311	0.1535712	0.28097669	2.3086381	21	—	—
322673 1999 TT_{229}	17.6	X	181.37148	87.65324	205.86661	2.97227	0.1691802	0.28805729	2.2706497	21	—	—
322674 1999 TS_{263}	16.6	X	342.93651	57.46883	28.50077	5.87593	0.1037265	0.18561960	3.0435947	21	—	—
322675 1999 TP_{295}	17.5	X	122.55055	184.61817	158.18497	4.39253	0.2249669	0.28490307	2.2873781	21	—	—
322676 1999 TN_{297}	16.9	X	170.65034	121.56234	181.99465	6.55433	0.1310121	0.28744159	2.2738910	21	—	—
322677 1999 TC_{301}	16.2	X	311.73922	106.14709	23.02504	7.60430	0.0667402	0.18657164	3.0332320	21	—	—
322678 1999 TB_{316}	17.7	X	191.88746	297.22391	347.91441	3.00226	0.1687475	0.28851330	2.2682565	21	—	—
322679 1999 UC_{57}	16.4	X	139.91945	353.26822	25.64105	2.22713	0.0685444	0.19698635	2.9253553	21	2 6.2	20.5
322680 1999 VF_{3}	17.4	X	162.11170	30.37345	215.96398	7.57108	0.0832588	0.27320059	2.3522400	21	12 22.5	20.7
322681 1999 VE_{42}	17.3	X	285.61752	97.47318	14.98678	6.97151	0.0592711	0.27269471	2.3551482	21	12 8.2	20.1
322682 1999 VY_{53}	15.6	X	116.33451	202.82700	220.51199	11.83604	0.0912822	0.19960148	2.8997477	21	3 2.4	19.9
322683 1999 VX_{82}	16.7	X	293.25988	94.66047	16.22191	9.87452	0.2163593	0.18147490	3.0897619	21	11 6.4	20.4
322684 1999 VP_{84}	17.2	X	124.27891	272.71755	41.95265	2.79171	0.2447332	0.28085046	2.3093298	21	—	—
322685 1999 VC_{91}	15.6	X	39.85289	334.69587	40.97029	11.03561	0.1233701	0.18447436	3.0561784	21	—	—
322686 1999 VV_{97}	17.0	X	65.82394	294.07941	50.82760	5.25881	0.1715276	0.27604018	2.3360807	21	—	—
322687 1999 VQ_{104}	15.5	X	150.81735	274.95074	52.27225	9.75105	0.1058917	0.19213770	2.9743654	21	—	—
322688 1999 VX_{111}	15.9	X	97.48472	293.27549	60.06213	4.76484	0.2491259	0.18800151	3.0178326	21	—	—
322689 1999 VG_{150}	17.6	X	279.14027	18.56995	34.72576	3.71294	0.2000328	0.26343566	2.4100146	21	8 14.2	20.4
322690 1999 VG_{165}	15.5	X	12.72082	32.14302	38.21754	10.11580	0.0761530	0.18596939	3.0397771	21	—	—
322691 1999 VZ_{172}	15.5	X	63.83775	149.44244	232.57506	10.63036	0.1289149	0.18757174	3.0224406	21	—	—
322692 1999 VS_{185}	15.4	X	5.88420	194.17559	225.43991	15.52384	0.0736191	0.18380101	3.0636380	21	—	—
322693 1999 WR_{27}	17.1	X	36.25972	208.89406	197.95817	2.89446	0.0992842	0.18575273	3.0421404	21	—	—
322694 1999 XA_{8}	15.8	X	323.51912	113.52227	353.49923	14.19274	0.2160380	0.18263533	3.0766601	21	—	—
322695 1999 XA_{139}	15.5	X	103.83674	271.60773	99.47009	11.96561	0.1078253	0.18524904	3.0476522	21	—	—
322696 1999 XE_{148}	16.2	X	137.53442	292.74123	64.63568	13.33068	0.1208824	0.19324233	2.9630197	21	1 16.3	20.7
322697 1999 XE_{149}	15.6	X	263.61234	302.05766	241.39026	9.16871	0.0640117	0.18541094	3.0458779	21	—	—
322698 1999 YC_{11}	15.6	X	260.66496	98.39050	84.20884	15.30999	0.0867281	0.18388710	3.0626817	21	—	—
322699 1999 YW_{15}	16.1	X	345.83233	162.81337	239.84067	9.85601	0.2084575	0.17822625	3.1271948	21	11 21.7	19.4
322700 2000 AS_{210}	16.2	X	283.81698	60.11365	77.71716	2.39867	0.1343675	0.17702124	3.1413703	21	12 8.7	20.2
322701 2000 AO_{231}	15.4	X	311.00335	318.61362	104.72176	19.06029	0.1508229	0.17315153	3.1880014	21	10 24.8	19.7
322702 2000 BJ_{11}	15.7	X	156.74871	319.10791	285.10077	8.23736	0.0590750	0.17498879	3.1656476	21	11 27.9	20.5
322703 2000 CX_{41}	15.4	X	274.19499	345.17619	142.63495	15.77148	0.1891976	0.17387575	3.1791428	21	11 9.9	19.9
322704 2000 CP_{109}	17.1	X	288.26229	64.43132	307.85182	5.89550	0.1282768	0.25200525	2.4823498	21	7 10.0	20.1
322705 2000 DK_{8}	19.3	X	126.42316	340.85699	102.72297	12.71538	0.6900524	0.24571112	2.5245628	21	5 30.1	24.8
322706 2000 DB_{97}	15.7	X	241.36943	28.39221	147.00575	29.04833	0.1649257	0.17240740	3.1971680	21	12 2.3	21.0
322707 2000 DT_{114}	18.5	X	176.58453	179.13077	321.50949	1.35621	0.1849364	0.25149872	2.4856818	21	8 19.2	22.5
322708 2000 DH_{117}	17.3	X	159.88013	323.30154	165.12466	14.91387	0.0498035	0.24705376	2.5154078	21	7 13.7	21.1
322709 2000 FB_{2}	17.4	X	40.76539	52.08543	188.77650	4.55916	0.1184228	0.24171952	2.5522795	21	7 16.8	20.2
322710 2000 GN_{6}	17.2	X	70.57185	185.31935	16.16230	12.85399	0.1775701	0.24182841	2.5515133	21	7 22.7	20.7
322711 2000 HQ_{20}	16.1	X	0.75649	205.63330	55.29102	14.25973	0.1198397	0.23573947	2.5952618	21	6 1.2	18.8
322712 2000 KJ_{13}	17.1	X	76.99157	162.43765	61.86621	8.58945	0.2311601	0.24217278	2.5490939	21	9 8.9	20.8
322713 2000 KD_{41}	16.7	X	122.60926	155.70629	150.62780	5.45922	0.5839428	0.15764008	3.3938420	21	—	—
322714 2000 KW_{42}	16.5	X	302.50584	262.63691	50.66006	10.29158	0.1913240	0.23403385	2.6078559	21	4 29.6	19.7
322715 2000 LX_{23}	16.0	X	70.56421	129.37468	115.37982	30.69066	0.3010270	0.24071450	2.5593787	21	10 16.2	20.6
322716 2000 PG_{9}	16.8	X	31.57063	233.46065	46.61599	13.01057	0.2874177	0.23734285	2.5835603	21	10 2.3	19.7
322717 2000 PT_{29}	16.3	X	298.42141	319.11408	2.47841	13.12348	0.2021274	0.22723829	2.6595921	21	4 28.1	20.0
322718 2000 QW_{114}	15.9	X	152.50982	192.37286	170.33056	13.24434	0.2588236	0.20975178	2.8054268	21	2 13.8	20.7
322719 2000 QT_{170}	17.4	X	179.44702	24.99342	311.14672	3.40424	0.2198156	0.30652338	2.1785138	21	1 21.9	20.7
322720 2000 RP_{8}	15.4	X	346.98829	126.03799	189.98403	30.61408	0.2698691	0.23126174	2.6286546	21	7 17.4	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322721 2000 RR_{25}	15.9	X	290.08124	318.29363	334.13362	12.53127	0.2481007	0.22213554	2.7001674	21	3 8.7	19.9
322722 2000 RL_{90}	16.6	X	299.40293	105.48232	190.04248	13.27623	0.2054148	0.22367339	2.6877766	21	3 30.7	20.2
322723 2000 SW_{9}	16.1	X	199.99010	7.11374	352.42913	25.50175	0.1046168	0.21544371	2.7557945	21	3 15.9	20.5
322724 2000 SG_{11}	16.3	X	0.99922	92.43712	204.85304	27.53978	0.3615624	0.23257595	2.6187428	21	7 31.6	18.6
322725 2000 SM_{47}	15.9	X	345.62566	85.50795	218.47635	10.80640	0.1912268	0.23145593	2.6271841	21	7 2.5	18.5
322726 2000 SY_{51}	15.9	X	208.44226	353.74760	337.77535	12.58456	0.1106496	0.21422306	2.7662531	21	2 20.7	20.2
322727 2000 SS_{58}	17.2	X	268.15893	121.02139	217.41099	0.70620	0.2764391	0.22342197	2.6897926	21	4 12.2	21.6
322728 2000 SE_{129}	16.6	X	233.98880	327.58430	1.09143	9.04323	0.1396559	0.21722811	2.7406824	21	3 12.5	20.9
322729 2000 SA_{136}	16.3	X	184.14162	3.13874	325.86835	7.53287	0.2238077	0.21047991	2.7989531	21	1 30.9	21.1
322730 2000 ST_{149}	16.2	X	226.10933	135.63351	199.97018	9.27720	0.2195005	0.21568472	2.7537413	21	3 8.1	20.9
322731 2000 SK_{163}	16.6	X	333.84775	53.09267	245.37817	2.64933	0.1861786	0.22709084	2.6607433	21	5 31.4	19.2
322732 2000 SY_{195}	17.9	X	52.95839	193.41077	186.09776	2.27718	0.2196167	0.29324743	2.2437781	21	—	—
322733 2000 SD_{231}	15.7	X	236.16854	118.80060	237.54272	14.19728	0.1124907	0.21984686	2.7188747	21	4 15.7	20.1
322734 2000 SM_{236}	16.8	X	251.48152	143.95803	198.05440	4.90476	0.2723953	0.22066661	2.7121370	21	4 3.1	21.5
322735 2000 SM_{246}	16.1	X	280.12996	291.16396	22.22304	12.67171	0.1943930	0.22240010	2.6980256	21	4 3.4	20.1
322736 2000 SW_{251}	16.4	X	214.33309	175.84893	171.68146	10.35741	0.2278352	0.21608989	2.7502980	21	3 14.9	21.2
322737 2000 SU_{287}	17.4	X	81.16990	344.65952	34.82149	5.25398	0.1264458	0.29626423	2.2285202	21	—	—
322738 2000 SZ_{296}	17.4	X	136.42346	45.77145	286.78723	4.35236	0.1973657	0.29962617	2.2118188	21	—	—
322739 2000 SZ_{314}	15.8	X	333.81509	8.74177	279.26353	13.40354	0.2360561	0.22652871	2.6651432	21	5 3.6	18.9
322740 2000 TM_{1}	15.9	X	7.63690	82.59181	184.96168	28.58078	0.3157181	0.23313593	2.6145477	21	7 2.1	18.5
322741 2000 TK_{40}	16.2	X	154.20508	345.56601	27.80664	12.48165	0.2556151	0.21119709	2.7926130	21	3 5.9	21.0
322742 2000 TJ_{45}	17.2	X	59.94737	302.78508	86.24790	6.26920	0.1791388	0.29477319	2.2360288	21	—	—
322743 2000 UX_{64}	17.2	X	68.85484	167.26787	229.28648	6.71000	0.1198966	0.29570530	2.2313274	21	—	—
322744 2000 VA_{42}	16.8	X	43.38740	9.86516	24.05256	7.55509	0.1444344	0.29117013	2.2544374	21	—	—
322745 2000 WY_{19}	18.2	X	321.58331	186.43320	246.07836	1.54459	0.1806972	0.28219143	2.3020080	21	12 16.1	19.7
322746 2000 WX_{76}	15.7	X	70.05299	211.55358	249.14786	13.89878	0.1050461	0.20524959	2.8463034	21	2 14.1	19.6
322747 2000 WW_{155}	15.9	X	264.99879	318.60966	36.15633	14.42284	0.2639437	0.22119341	2.7078292	21	4 30.3	20.2
322748 2000 YQ_{27}	16.2	X	322.39308	144.24205	299.81063	10.12233	0.3455361	0.18636629	3.0354597	21	11 18.5	18.6
322749 2000 YO_{31}	16.8	X	304.62223	55.91913	104.49889	4.68457	0.0647490	0.18987241	2.9979759	21	—	—
322750 2000 YF_{109}	15.9	X	2.35148	347.64131	98.17606	14.06171	0.1653030	0.19090502	2.9871554	21	—	—
322751 2001 BM	15.2	X	249.68644	202.63287	329.04015	20.08583	0.1716274	0.18216953	3.0819024	21	11 27.4	20.0
322752 2001 BN_{10}	17.5	X	197.70438	180.89956	327.33619	18.32105	0.0632952	0.36643401	1.9340701	21	9 28.0	20.0
322753 2001 BL_{68}	17.3	X	244.24501	10.84291	142.50816	23.79594	0.0618063	0.37142141	1.9167174	21	12 31.8	19.5
322754 2001 BU_{77}	15.6	X	285.61665	284.70405	245.87939	15.04186	0.3134078	0.18490899	3.0513875	21	12 27.4	19.1
322755 2001 CT_{23}	15.4	X	300.55824	199.15858	299.97895	10.37259	0.0729303	0.18633481	3.0358016	21	—	—
322756 2001 CK_{32}	19.0	X	150.33419	234.03138	109.40760	8.13428	0.3826015	1.59693461	0.7248998	21	—	—
322757 2001 DF_{17}	17.2	X	267.26860	24.64952	80.25226	6.86879	0.1878936	0.27300206	2.3533802	21	10 14.9	19.9
322758 2001 DV_{23}	15.7	X	255.50312	8.93557	140.47272	23.63596	0.1903764	0.18081096	3.0973210	21	11 15.9	20.6
322759 2001 DW_{106}	15.9	X	216.50917	229.22144	322.53567	10.76004	0.0708550	0.17984121	3.1084454	21	11 28.4	20.7
322760 2001 EZ_{3}	16.1	X	323.99241	121.24742	353.12512	12.26428	0.2422896	0.18577074	3.0419437	21	—	—
322761 2001 EW_{16}	17.3	X	156.93616	195.35130	358.56178	19.81292	0.0507274	0.36323096	1.9454234	21	10 14.8	19.6
322762 2001 FM	16.2	X	244.97964	58.27136	33.57674	22.15809	0.3217511	0.26779446	2.3837918	21	8 20.1	20.5
322763 2001 FA_{7}	17.1	X	111.15121	62.65177	352.36819	22.83297	0.5357001	0.34667527	2.0068773	21	3 26.4	20.0
322764 2001 FE_{20}	15.6	X	206.61682	48.59445	194.06044	23.53241	0.3072151	0.17775054	3.1327718	21	12 26.6	21.4
322765 2001 FY_{44}	15.1	X	255.16600	19.27888	183.86458	18.18426	0.1675850	0.18136035	3.0910627	21	—	—
322766 2001 FN_{62}	17.3	X	211.74042	144.26071	52.33322	4.43584	0.1843302	0.27342591	2.3509475	21	12 3.0	20.5
322767 2001 FJ_{114}	15.6	X	292.10021	83.09718	73.20615	4.70096	0.1500180	0.18322937	3.0700067	21	—	—
322768 2001 FO_{122}	16.2	X	284.43592	109.80772	36.84496	4.60418	0.3238451	0.18263231	3.0766941	21	11 23.1	19.7
322769 2001 FE_{140}	17.3	X	154.59093	238.05021	353.35398	2.40086	0.1476869	0.26869133	2.3784842	21	11 22.6	20.9
322770 2001 FD_{145}	14.9	X	245.35070	158.40378	58.57964	26.00513	0.1466541	0.18090827	3.0962102	21	—	—
322771 2001 FY_{157}	15.6	X	242.66478	139.20445	47.40630	14.06088	0.1496323	0.17824836	3.1269362	21	12 11.5	20.3
322772 2001 FA_{172}	17.2	X	68.18014	44.53773	169.13220	24.24542	0.0842427	0.35084850	1.9909314	21	7 17.2	19.7
322773 2001 FX_{179}	16.6	X	250.85609	70.02017	32.84538	12.91218	0.1325838	0.26802629	2.3824171	21	9 28.2	19.7
322774 2001 FL_{191}	17.8	X	82.09861	75.23221	163.37502	3.85965	0.1563194	0.26107724	2.4245066	21	9 21.1	21.1
322775 2001 HA_{8}	17.2	X	139.99845	202.66470	95.74186	11.45723	0.5289100	0.26724493	2.3870585	21	—	—
322776 2001 JQ_{1}	15.8	X	258.58483	115.42535	45.01331	22.50427	0.2812456	0.17795534	3.1303677	21	11 11.5	20.5
322777 2001 KL_{43}	15.0	X	167.56444	95.49179	208.25032	15.57864	0.2436129	0.17497524	3.1658110	21	—	—
322778 2001 KR_{51}	16.8	X	168.59797	107.06420	64.88363	24.53126	0.1204643	0.36200854	1.9498005	21	10 16.8	19.9
322779 2001 ML_{28}	15.7	X	316.12989	4.94333	311.55787	13.50894	0.1675151	0.24113368	2.5564117	21	5 24.7	19.0
322780 2001 OX_{4}	16.0	X	342.28692	54.01226	263.98834	12.06240	0.2274048	0.24430153	2.5342644	21	7 14.0	18.1
322781 2001 OD_{17}	16.8	X	282.82019	225.51520	128.24064	3.65433	0.2500643	0.24100480	2.5573230	21	5 19.5	20.4
322782 2001 ON_{94}	16.0	X	307.82455	41.08085	310.35983	14.23730	0.0579894	0.24545379	2.5263269	21	7 22.2	19.1
322783 2001 PX_{48}	16.4	X	283.19438	183.94730	188.23203	29.40763	0.1545664	0.24197128	2.5505088	21	6 25.6	20.5
322784 2001 QW_{1}	16.7	X	143.57782	60.68858	338.23680	7.40243	0.3166304	0.22331921	2.6906177	21	3 23.7	21.4
322785 2001 QW_{7}	16.7	X	250.64722	194.54535	162.38235	6.59958	0.3365205	0.23507788	2.6001288	21	4 17.2	21.3
322786 2001 QY_{47}	16.3	X	268.21537	51.50549	319.55304	5.18603	0.0931697	0.24051120	2.5608208	21	6 15.2	19.7
322787 2001 QP_{54}	16.2	X	290.67870	4.78805	326.49857	10.20738	0.0704819	0.23871725	2.5736344	21	5 22.8	19.8
322788 2001 QX_{63}	16.9	X	337.65475	166.55475	165.20680	13.40955	0.2869684	0.24423963	2.5346926	21	7 18.4	18.8
322789 2001 QK_{85}	16.4	X	241.47092	227.10136	117.98742	12.94275	0.2115982	0.23286785	2.6165539	21	4 7.7	20.9
322790 2001 QO_{86}	16.1	X	262.88879	126.35011	236.54219	10.61283	0.1446217	0.23678854	2.5875908	21	5 21.7	19.8
322791 2001 QR_{130}	16.4	X	253.50229	55.29929	299.96313	7.04898	0.1995363	0.23547134	2.5972316	21	4 22.7	20.7
322792 2001 QH_{136}	16.6	X	236.55864	101.77825	257.70433	5.48745	0.2685002	0.23109142	2.6299460	21	4 10.1	21.2
322793 2001 QL_{141}	16.0	X	342.56342	122.28770	159.54802	11.78216	0.2451254	0.24260887	2.5460383	21	5 17.9	18.4
322794 2001 QE_{207}	16.7	X	293.46552	182.71025	159.88645	11.32271	0.1422829	0.24015194	2.5633741	21	6 4.7	20.2
322795 2001 QZ_{234}	15.9	X	239.05119	36.26318	353.49625	13.54115	0.0829118	0.23632264	2.5909906	21	6 2.8	19.9
322796 2001 QR_{237}	16.6	X	230.65833	215.25938	161.06506	9.08321	0.2123994	0.23293168	2.6160759	21	5 3.4	21.1
322797 2001 QS_{242}	16.2	X	152.60696	228.27605	165.46320	13.65056	0.2656348	0.22295708	2.6935303	21	3 24.4	20.8
322798 2001 QH_{254}	16.6	X	248.15949	9.34732	343.02257	14.79642	0.1224475	0.23468935	2.6029978	21	4 17.1	20.7
322799 2001 QE_{278}	16.0	X	261.62916	283.71130	68.08595	13.63070	0.2133989	0.23547742	2.5971869	21	5 1.8	20.1
322800 2001 RL_{13}	17.0	X	151.66610	202.73751	202.69479	6.11230	0.1591124	0.22546362	2.6735300	21	3 27.2	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322801 2001 RS_{13}	16.8	X	89.03747	80.41049	346.73080	14.38490	0.2462346	0.21835696	2.7312284	21	2 25.9	20.0
322802 2001 RS_{49}	16.2	X	121.72565	247.51007	190.35923	4.84106	0.2578846	0.22351328	2.6890600	21	4 18.5	20.3
322803 2001 RO_{50}	16.3	X	32.41617	325.95345	300.65143	8.27006	0.0627654	0.24245821	2.5470929	21	8 2.7	19.4
322804 2001 RA_{69}	16.5	X	271.78385	0.89872	351.05449	14.50527	0.2554776	0.23567584	2.5957290	21	4 27.7	20.7
322805 2001 RR_{87}	16.6	X	155.53394	32.80972	359.15619	8.27679	0.2437242	0.22318393	2.6917048	21	3 21.5	21.1
322806 2001 RE_{113}	17.0	X	20.96949	306.76673	350.99905	6.28856	0.0865024	0.24531023	2.5273125	21	9 2.9	19.9
322807 2001 RX_{123}	16.3	X	273.06030	319.33129	356.59553	22.42868	0.0380860	0.23200080	2.6230690	21	4 8.3	20.1
322808 2001 RW_{136}	17.0	X	88.02032	253.10447	158.28878	9.46407	0.3866746	0.21491119	2.7603450	21	2 25.2	20.2
322809 2001 RU_{149}	16.8	X	349.86723	163.80878	158.15818	15.70708	0.1477223	0.24468781	2.5315966	21	8 13.1	19.4
322810 2001 SX_{24}	17.2	X	300.74303	158.03483	184.76084	10.49507	0.1870742	0.23897620	2.5717749	21	6 7.3	20.5
322811 2001 SL_{26}	16.8	X	261.17831	352.37390	6.86946	12.08515	0.1889161	0.23506945	2.6001910	21	5 5.8	21.0
322812 2001 SW_{43}	16.6	X	194.25567	16.93342	20.43682	7.94880	0.1791539	0.22938249	2.6429922	21	4 25.4	21.1
322813 2001 SG_{55}	16.1	X	223.71837	317.46424	41.15676	12.48094	0.1720189	0.22855635	2.6493573	21	4 8.3	20.4
322814 2001 SD_{62}	16.1	X	275.22915	131.17635	190.65168	15.19892	0.2067002	0.23227542	2.6210012	21	4 5.4	20.1
322815 2001 SM_{66}	16.6	X	129.49513	36.78147	30.40723	15.29233	0.1787256	0.22136131	2.7064598	21	4 6.7	20.6
322816 2001 SM_{84}	16.4	X	139.97668	286.42337	177.05566	21.73577	0.0550282	0.23396726	2.6083507	21	5 21.1	20.5
322817 2001 SS_{89}	16.9	X	173.91801	219.84884	187.04174	11.21143	0.1357570	0.22925520	2.6439704	21	4 20.1	21.0
322818 2001 SF_{95}	16.6	X	130.15367	233.31779	182.57913	12.92421	0.1828075	0.22328449	2.6908966	21	3 21.6	20.6
322819 2001 SQ_{134}	17.3	X	313.75228	344.91702	327.72510	2.24354	0.1630776	0.23764779	2.5813498	21	5 18.0	20.2
322820 2001 SJ_{162}	16.6	X	230.43206	139.74467	218.29892	3.76739	0.2343021	0.23006088	2.6377939	21	4 6.7	21.0
322821 2001 SY_{200}	16.8	X	175.08223	245.55333	179.75684	4.48878	0.1160991	0.23125510	2.6287049	21	5 13.3	20.9
322822 2001 SK_{215}	16.6	X	247.91858	273.06100	99.02022	4.85242	0.1352405	0.23438070	2.6052825	21	5 19.1	20.4
322823 2001 SQ_{222}	16.6	X	153.91824	36.09797	23.25340	5.25816	0.1674828	0.22604189	2.6689684	21	4 16.8	20.6
322824 2001 SN_{225}	16.7	X	77.43761	240.52509	188.63518	14.15701	0.2149502	0.21559838	2.7544764	21	1 31.4	20.0
322825 2001 SN_{241}	16.1	X	122.66179	70.44986	17.33956	22.12332	0.0610903	0.22541333	2.6739276	21	4 7.0	19.5
322826 2001 ST_{255}	15.9	X	190.75003	179.51419	196.64762	14.09698	0.2558790	0.22456965	2.6806205	21	3 29.6	20.6
322827 2001 SK_{269}	17.3	X	213.74160	174.99344	203.40764	1.41847	0.2205857	0.22988572	2.6391336	21	4 19.1	21.7
322828 2001 SD_{294}	16.8	X	265.96846	168.75337	197.94960	4.15216	0.3079930	0.23857579	2.5746516	21	5 12.0	21.0
322829 2001 SO_{317}	16.3	X	128.70612	251.90560	184.16315	17.34064	0.0746493	0.22517606	2.6758057	21	4 1.9	20.0
322830 2001 SF_{334}	16.2	X	98.89619	0.81897	191.83651	11.63571	0.1230412	0.23738305	2.5832687	21	7 31.9	20.1
322831 2001 SE_{341}	16.2	X	264.09784	220.14808	148.49799	15.74232	0.1560725	0.23766294	2.5812401	21	6 1.6	20.3
322832 2001 TU_{11}	16.6	X	144.61595	41.18935	29.05348	13.19160	0.1682611	0.22490894	2.6779239	21	4 21.3	20.7
322833 2001 TV_{19}	15.8	X	83.97146	143.55940	239.63123	15.31264	0.2399894	0.21023641	2.8011139	21	—	—
322834 2001 TG_{48}	18.4	X	51.71149	232.71401	191.33633	2.99968	0.1038543	0.31001166	2.1621411	21	—	—
322835 2001 TZ_{53}	16.3	X	214.28910	343.04078	28.61858	13.70363	0.2969066	0.22962170	2.6411563	21	4 11.1	21.1
322836 2001 TN_{63}	16.3	X	188.11908	25.40532	34.51621	12.84592	0.1636721	0.22906688	2.6454193	21	5 16.9	20.6
322837 2001 TV_{68}	17.1	X	239.24916	27.83180	329.20773	1.50459	0.1340207	0.23086615	2.6316566	21	4 19.2	21.1
322838 2001 TY_{81}	16.9	X	177.47987	158.80840	225.53350	6.10313	0.1957022	0.22566022	2.6719770	21	3 26.1	21.5
322839 2001 TX_{86}	16.3	X	7.87131	70.27323	216.19973	7.99565	0.0191314	0.23851975	2.5750548	21	7 19.3	19.7
322840 2001 TF_{93}	16.3	X	261.23990	325.17933	1.50557	13.40252	0.1988998	0.23072756	2.6327103	21	3 28.1	20.3
322841 2001 TW_{95}	16.1	X	110.85740	229.82303	225.71857	12.75975	0.0452580	0.22399622	2.6851935	21	3 27.4	19.8
322842 2001 TQ_{97}	16.5	X	198.59307	43.60057	6.42765	11.43369	0.1153083	0.22954888	2.6417148	21	5 13.2	20.8
322843 2001 TE_{113}	16.2	X	171.78299	75.80011	25.74955	22.48984	0.0245843	0.23297690	2.6157374	21	6 19.6	20.3
322844 2001 TJ_{124}	16.5	X	182.78372	34.49413	347.71824	13.32445	0.1802920	0.22575122	2.6712589	21	3 26.3	21.1
322845 2001 TR_{179}	17.0	X	101.85501	152.24505	269.16257	2.35543	0.1885098	0.21744675	2.7388449	21	2 24.3	20.7
322846 2001 TC_{187}	16.9	X	300.20515	309.15815	24.66009	13.10845	0.1939732	0.23611408	2.5925161	21	5 19.4	20.3
322847 2001 TU_{187}	16.2	X	245.73249	104.84527	234.65479	10.93378	0.2492291	0.22897417	2.6461333	21	3 23.9	20.9
322848 2001 TC_{190}	16.1	X	246.79248	128.51037	239.53994	11.18599	0.0710609	0.23024739	2.6363693	21	5 18.5	19.7
322849 2001 TZ_{230}	16.5	X	225.67044	238.43737	128.91623	7.05639	0.2491701	0.23089605	2.6314293	21	4 17.2	21.1
322850 2001 TM_{248}	17.4	X	354.25631	275.30067	15.61322	11.39043	0.1593021	0.24031055	2.5622460	21	7 6.9	20.1
322851 2001 TO_{258}	16.4	X	318.46936	279.17885	61.13304	15.48060	0.1205350	0.23910087	2.5708808	21	7 14.7	19.6
322852 2001 UU_{31}	16.1	X	245.38203	285.13904	38.60495	13.70757	0.1175407	0.22700337	2.6614267	21	3 22.9	20.3
322853 2001 UG_{41}	16.5	X	97.56869	27.86342	43.07459	14.42240	0.1724507	0.21756842	2.7378237	21	3 9.5	20.3
322854 2001 UT_{42}	17.2	X	348.90414	116.07928	199.75778	12.21120	0.2002182	0.24141155	2.5544497	21	7 27.9	19.6
322855 2001 UL_{54}	16.6	X	308.81037	357.02242	350.69070	14.14382	0.1759195	0.23902777	2.5714050	21	6 30.7	19.8
322856 2001 UZ_{78}	16.7	X	226.03068	167.92790	210.99398	4.87985	0.1179853	0.22994503	2.6386798	21	5 5.6	20.8
322857 2001 UQ_{82}	16.2	X	103.19593	14.64442	45.57662	9.46757	0.1896344	0.21619815	2.7493798	21	3 3.0	20.0
322858 2001 UD_{90}	17.3	X	282.20450	347.65011	358.27080	2.84226	0.0793925	0.23564984	2.5959199	21	6 1.2	20.7
322859 2001 UN_{97}	16.5	X	190.58407	217.29443	192.47140	9.70154	0.0805457	0.22887788	2.6468754	21	5 9.7	20.4
322860 2001 UG_{105}	15.9	X	36.33065	195.91300	47.13496	13.59383	0.0946602	0.23537237	2.5979596	21	7 11.7	19.2
322861 2001 UH_{105}	16.7	X	27.07197	254.55542	43.55899	15.40943	0.1102315	0.24255755	2.5463974	21	9 24.2	19.9
322862 2001 UW_{125}	15.9	X	151.81466	252.27830	176.60180	22.01629	0.0454637	0.22655999	2.6648979	21	4 19.4	19.8
322863 2001 UQ_{130}	16.7	X	140.57475	214.05536	199.52711	11.89210	0.1619212	0.22160432	2.7044808	21	3 26.5	20.9
322864 2001 UU_{136}	16.6	X	207.13803	116.88797	282.28090	3.84913	0.1120396	0.23076355	2.6324365	21	5 10.7	20.6
322865 2001 UW_{142}	17.0	X	209.50605	176.65881	199.00807	3.94781	0.1447539	0.22707237	2.6608876	21	4 14.0	21.3
322866 2001 UN_{155}	16.2	X	176.46681	315.32851	58.97900	14.66275	0.1123053	0.22123781	2.7074668	21	3 19.6	20.6
322867 2001 UM_{157}	16.5	X	197.32137	148.67474	219.76830	13.40631	0.2172069	0.22416035	2.6838826	21	3 22.5	21.3
322868 2001 UP_{171}	16.6	X	199.82080	116.55084	267.05086	4.30756	0.1388070	0.22660124	2.6645744	21	4 12.9	20.9
322869 2001 UV_{192}	16.7	X	217.93326	23.89343	348.42315	12.46731	0.3031893	0.22940538	2.6428163	21	4 8.9	21.6
322870 2001 UV_{200}	17.3	X	244.96527	355.23964	345.79815	1.83439	0.1048272	0.22903860	2.6456371	21	4 7.5	21.1
322871 2001 UL_{215}	17.0	X	192.74409	234.76314	194.02300	2.26195	0.0735002	0.23111284	2.6297835	21	6 4.7	20.9
322872 2001 UA_{217}	17.1	X	255.53085	148.62527	212.72500	1.58755	0.1073507	0.23197518	2.6232622	21	5 15.9	21.0
322873 2001 VX_{52}	15.9	X	294.51169	68.06053	244.79550	13.19404	0.1094195	0.23102914	2.6304186	21	4 28.1	19.4
322874 2001 VB_{73}	17.0	X	212.59205	156.48140	233.80355	0.77761	0.1150321	0.22910063	2.6451595	21	5 5.9	21.2
322875 2001 VO_{103}	16.0	X	72.94453	73.67275	48.17453	22.37883	0.0596129	0.21940899	2.7224909	21	3 29.4	19.9
322876 2001 VD_{133}	16.7	X	168.11212	210.38838	155.11119	6.68181	0.0286583	0.22060854	2.7126130	21	2 12.9	20.5
322877 2001 WU_{19}	17.0	X	226.56279	334.43232	36.67137	6.88027	0.1420552	0.22828585	2.6514497	21	4 24.7	21.2
322878 2001 WR_{29}	15.8	X	47.27985	249.35166	232.53793	20.63576	0.1153696	0.21362504	2.7714132	21	2 2.9	19.6
322879 2001 WG_{42}	16.4	X	229.37632	137.98235	217.53511	7.87182	0.0873577	0.22673562	2.6635215	21	4 10.0	20.3
322880 2001 WS_{65}	17.4	X	58.31733	248.05220	212.49999	6.01168	0.3184597	0.21317223	2.7753364	21	2 24.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322881 2001 WT_{99}	16.4	X	207.35211	273.90309	61.32412	11.11870	0.0635891	0.21922195	2.7240393	21	2 28.1	20.6
322882 2001 WQ_{103}	15.9	X	67.82032	51.53421	112.80958	15.74206	0.0412370	0.22404894	2.6847723	21	5 9.2	19.7
322883 2001 XA_{17}	16.3	X	61.84208	175.20292	280.21739	15.18356	0.2176191	0.21131446	2.7915789	21	2 6.8	19.3
322884 2001 XG_{36}	15.8	X	3.67574	252.63032	50.69204	9.18229	0.1805475	0.23566507	2.5958080	21	8 21.6	18.3
322885 2001 XO_{37}	16.1	X	205.79435	329.05989	36.20367	12.34212	0.1822934	0.22357641	2.6885538	21	4 1.3	20.6
322886 2001 XK_{45}	15.6	X	172.25368	358.67479	33.86387	13.76594	0.0233684	0.21875406	2.7279221	21	3 28.9	19.5
322887 2001 XY_{70}	16.0	X	107.74665	297.51350	104.84078	12.63154	0.2663575	0.21397636	2.7683788	21	2 24.2	20.0
322888 2001 XK_{95}	15.9	X	147.07616	315.45767	67.65361	12.82083	0.0639970	0.21587533	2.7521200	21	2 20.8	20.0
322889 2001 XY_{109}	16.8	X	302.46310	281.57749	76.13951	13.46426	0.2298727	0.23812643	2.5778896	21	6 22.6	19.9
322890 2001 XL_{125}	16.9	X	113.41048	316.86529	67.98467	8.81242	0.2280492	0.21360790	2.7715614	21	2 2.9	20.9
322891 2001 XT_{127}	16.9	X	97.39638	157.46862	246.86834	7.15455	0.2266019	0.21288270	2.7778522	21	2 1.7	20.6
322892 2001 XH_{146}	16.1	X	65.02392	77.18130	91.04850	6.74993	0.0957991	0.22151270	2.7052264	21	5 13.2	19.5
322893 2001 XJ_{150}	16.1	X	170.53862	314.65676	83.73259	8.04867	0.0785929	0.22006791	2.7170538	21	4 6.5	20.2
322894 2001 XP_{178}	16.0	X	62.63636	219.00039	267.32681	11.80312	0.1251356	0.21335741	2.7737303	21	3 9.2	19.6
322895 2001 XC_{212}	16.0	X	58.19948	28.99913	99.52851	15.17164	0.2233518	0.21437822	2.7649181	21	4 2.9	19.2
322896 2001 XS_{239}	16.3	X	151.04787	337.81713	80.61144	11.07494	0.2012325	0.21945315	2.7221257	21	4 20.8	20.8
322897 2001 YH_{3}	16.8	X	238.71579	228.86515	138.81785	5.96956	0.3102297	0.22952034	2.6419338	21	4 23.9	21.6
322898 2001 YT_{9}	16.1	X	150.09869	18.27339	32.59756	9.47893	0.1713132	0.21851834	2.7298835	21	4 5.6	20.5
322899 2001 YT_{57}	16.1	X	55.51197	53.35227	72.89930	8.72508	0.1711708	0.21378954	2.7699914	21	3 14.7	19.2
322900 2001 YE_{117}	17.5	X	189.54958	222.01927	292.07745	16.56825	0.0778039	0.38565963	1.8692466	21	9 25.3	20.1
322901 2001 YU_{122}	16.3	X	96.23870	21.05040	56.84845	13.58425	0.0936717	0.21514175	2.7583725	21	3 4.9	20.2
322902 2001 YN_{147}	17.0	X	158.27018	119.34935	281.44715	1.90020	0.1899350	0.22039030	2.7144034	21	3 30.3	21.3
322903 2001 YU_{161}	16.2	X	145.94323	137.69441	263.88583	5.12179	0.0585722	0.21287385	2.7779292	21	3 5.8	20.3
322904 2002 AZ_{3}	15.8	X	127.40018	232.07485	222.57710	33.00427	0.2815126	0.22018874	2.7160597	21	5 15.9	20.4
322905 2002 AK_{8}	16.6	X	302.31443	131.25339	133.78621	4.12491	0.0459509	0.21430251	2.7655693	21	3 21.4	20.3
322906 2002 AL_{15}	16.1	X	131.81510	5.93838	38.04142	15.47832	0.2026277	0.21401771	2.7680222	21	3 19.2	20.5
322907 2002 AS_{38}	16.8	X	80.84821	303.00452	133.85112	8.61617	0.2077908	0.21047840	2.7989664	21	2 20.9	20.0
322908 2002 AQ_{44}	16.4	X	153.01080	273.27016	135.37300	5.16819	0.1220534	0.21680678	2.7442319	21	4 2.1	20.6
322909 2002 AK_{99}	16.6	X	16.18172	177.99887	313.37492	7.93601	0.1052785	0.20638498	2.8358548	21	1 6.8	19.9
322910 2002 AF_{147}	16.6	X	293.94723	225.17686	102.69557	4.48634	0.1170781	0.22489632	2.6780241	21	5 19.9	20.0
322911 2002 AF_{165}	17.1	X	265.27438	275.99721	304.91883	6.36609	0.1128967	0.30154429	2.2024293	21	—	—
322912 Jedlik	18.1	X	21.60455	150.24184	289.74655	3.53432	0.1354649	0.30209452	2.1997542	21	—	—
322913 2002 CM_{1}	16.7	X	259.63546	84.17687	308.14295	45.00046	0.4621375	0.28270289	2.2992307	21	5 20.7	21.9
322914 2002 CP_{135}	17.5	X	290.71452	4.37726	165.78240	5.59913	0.0803629	0.29917192	2.2140572	21	—	—
322915 2002 CK_{152}	17.5	X	250.62448	108.11989	135.55626	5.19243	0.1464199	0.29887556	2.2155206	21	—	—
322916 2002 CU_{153}	17.2	X	117.16588	306.16179	102.01708	0.61837	0.0739032	0.20904534	2.8117436	21	2 13.1	21.1
322917 2002 CH_{154}	15.8	X	236.98766	177.97442	134.52085	15.45376	0.0666171	0.21004663	2.8028009	21	3 2.2	20.0
322918 2002 CX_{180}	16.5	X	99.75742	341.30921	95.06639	5.12079	0.0799194	0.21041846	2.7994980	21	3 1.1	20.2
322919 2002 CX_{206}	15.6	X	352.62635	36.24276	130.84168	9.83427	0.0659820	0.20455278	2.8527637	21	1 20.4	19.2
322920 2002 CM_{211}	16.0	X	265.95596	230.60844	348.49860	6.88269	0.0248045	0.20055613	2.8905385	21	—	—
322921 2002 CR_{217}	17.4	X	344.26324	29.44083	142.89212	5.57809	0.0714090	0.30467733	2.1873047	21	—	—
322922 2002 CK_{234}	17.2	X	206.95115	186.88798	142.11659	3.09294	0.0716918	0.31068569	2.1590128	21	1 30.1	19.9
322923 2002 CB_{273}	15.7	X	23.17565	227.21293	265.98229	13.87718	0.0967861	0.20508721	2.8478055	21	1 17.2	19.2
322924 2002 CP_{294}	16.2	X	67.18170	97.18452	20.60248	8.14517	0.1442759	0.21151960	2.7897737	21	3 17.2	19.4
322925 2002 DL	16.3	X	335.94279	199.75988	325.40681	10.69130	0.0523761	0.20311052	2.8662524	21	—	—
322926 2002 DS_{16}	16.0	X	173.39458	4.62698	317.21649	8.98694	0.1030638	0.20078266	2.8883639	21	1 8.0	20.4
322927 2002 DH_{19}	16.5	X	117.64813	265.87902	180.78126	8.39675	0.1264941	0.21321190	2.7749922	21	4 10.8	20.4
322928 2002 ET_{6}	16.1	X	87.99017	170.42591	181.74642	3.16012	0.1218993	0.18911767	3.0059470	21	—	—
322929 2002 EG_{47}	17.1	X	313.07699	294.72055	279.19396	1.02179	0.1984262	0.20154558	2.8810704	21	1 8.9	21.1
322930 2002 ES_{87}	17.3	X	312.75698	28.41381	157.65161	6.41484	0.1218927	0.30025850	2.2087125	21	—	—
322931 2002 EP_{93}	16.4	X	315.50315	219.46831	348.37129	12.99560	0.1149689	0.20380395	2.8597472	21	1 19.2	20.5
322932 2002 EB_{124}	16.0	X	349.44594	290.65579	185.36833	9.51967	0.0560656	0.19558952	2.9392668	21	—	—
322933 2002 EJ_{126}	17.6	X	334.86559	219.12353	285.91244	4.34920	0.1238820	0.30071915	2.2064563	21	—	—
322934 2002 EC_{127}	16.0	X	80.10666	75.64431	346.32954	14.27545	0.1416740	0.20456106	2.8526866	21	1 26.3	19.6
322935 2002 ER_{134}	17.3	X	254.75130	259.46766	332.46834	6.68426	0.0507216	0.29877669	2.2160093	21	—	—
322936 2002 EW_{160}	17.4	X	296.38257	169.01284	26.04535	5.54057	0.0714244	0.29869696	2.2164036	21	—	—
322937 2002 GG	17.3	X	262.86915	228.49085	36.26459	7.06553	0.1718107	0.30223596	2.1990678	21	1 6.5	20.7
322938 2002 GV_{8}	16.4	X	327.59184	145.71887	37.32739	16.54222	0.2500614	0.19887694	2.9067862	21	—	—
322939 2002 GZ_{22}	15.6	X	3.90118	15.50106	153.27031	8.49868	0.1041922	0.20275469	2.8696049	21	2 4.4	19.2
322940 2002 GJ_{53}	16.3	X	322.66623	348.72150	202.35363	7.80620	0.2212141	0.19847079	2.9107505	21	—	—
322941 2002 GE_{73}	17.6	X	269.24310	125.40798	91.14622	3.95474	0.1206404	0.29638412	2.2279192	21	—	—
322942 2002 GR_{75}	17.1	X	264.51885	243.08354	30.86099	10.74137	0.3018975	0.19647208	2.9304579	21	1 28.3	22.3
322943 2002 GA_{105}	15.1	X	197.95111	125.90105	149.23838	13.01729	0.0361864	0.19248014	2.9708365	21	—	—
322944 2002 GJ_{114}	17.2	X	339.34753	342.27357	135.87140	5.46222	0.1096528	0.29537409	2.2329952	21	—	—
322945 2002 GF_{137}	16.6	X	295.95354	131.89245	24.99229	6.07311	0.1228526	0.19079208	2.9883341	21	—	—
322946 2002 GB_{141}	17.9	X	344.49530	58.82917	54.77493	4.44118	0.0522903	0.29338029	2.2431006	21	—	—
322947 2002 GB_{148}	17.9	X	266.72243	329.52932	192.71672	18.56142	0.0471301	0.39125880	1.8513704	21	—	—
322948 2002 GE_{164}	15.9	X	200.98596	29.77096	185.08331	9.11223	0.0539496	0.18415963	3.0596594	21	12 13.5	20.5
322949 2002 GF_{170}	16.3	X	276.77485	357.18437	217.16482	14.82289	0.1776585	0.19326210	2.9628176	21	—	—
322950 2002 GP_{184}	18.0	X	190.12757	53.71338	208.95287	4.81768	0.0744591	0.28998322	2.2605848	21	—	—
322951 2002 GT_{190}	17.3	X	149.21151	178.11930	114.62666	7.76411	0.1459814	0.28850407	2.2683048	21	—	—
322952 2002 HE_{18}	17.1	X	257.47467	307.03775	272.34838	7.45664	0.0323016	0.29649841	2.2273466	21	—	—
322953 2002 HP_{18}	16.5	X	164.18814	267.43530	34.04392	5.45481	0.2103152	0.18516507	3.0485735	21	—	—
322954 2002 JV_{10}	17.6	X	308.56826	261.11482	200.89797	21.22521	0.0178244	0.38625722	1.8673181	21	—	—
322955 2002 JT_{50}	16.9	X	173.47178	268.69780	49.09452	6.60985	0.1898523	0.29126866	2.2539289	21	—	—
322956 2002 JT_{75}	16.7	X	164.81419	289.94076	52.56336	19.63083	0.2500831	0.29274836	2.2463274	21	1 25.6	20.6
322957 2002 JB_{88}	17.5	X	182.77155	359.37228	245.38999	4.60102	0.1310409	0.28518896	2.2858492	21	—	—
322958 2002 JA_{89}	17.4	X	234.98110	208.14759	27.53366	3.37156	0.0982403	0.29223970	2.2489333	21	—	—
322959 2002 JL_{92}	15.9	X	236.86939	6.77028	240.87257	11.22401	0.1975999	0.18953194	3.0015652	21	—	—
322960 2002 JF_{117}	15.6	X	132.60672	254.49936	77.07291	11.58923	0.1144655	0.18506670	3.0496538	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
322961 2002 JY_{119}	16.1	X	286.01175	97.69266	132.17649	17.91777	0.0987003	0.19562409	2.9389204	21	1 11.7	20.5
322962 2002 JL_{126}	15.6	X	97.98268	248.90297	53.48978	5.72992	0.1358164	0.17650357	3.1475095	21	12 11.7	20.6
322963 2002 JE_{128}	16.9	X	248.98997	56.71928	153.43123	5.58493	0.0263044	0.29080548	2.2563215	21	—	—
322964 2002 JF_{140}	17.2	X	157.67121	174.20350	114.02889	6.34805	0.2473558	0.28494017	2.2871796	21	—	—
322965 2002 JR_{150}	17.6	X	176.09887	330.34497	289.40401	5.10276	0.1741625	0.28559050	2.2837061	21	—	—
322966 2002 KF_{4}	16.9	X	300.24259	193.74694	77.87350	37.02534	0.5768834	0.19927508	2.9029132	21	1 25.4	22.7
322967 2002 KJ_{14}	17.1	X	99.19225	123.13664	158.13670	10.61526	0.1762347	0.27608898	2.3358054	21	12 7.4	20.9
322968 2002 KT_{15}	18.3	X	170.73013	20.65699	264.83482	1.45470	0.1988926	0.28666793	2.2779804	21	—	—
322969 2002 KE_{16}	15.4	X	162.66599	164.72358	106.90030	17.51215	0.1835998	0.17698716	3.1417736	21	—	—
322970 2002 LA_{10}	17.4	X	113.61189	192.20675	101.11770	5.60747	0.2341699	0.27837354	2.3230082	21	—	—
322971 2002 LO_{20}	17.0	X	164.52301	187.95750	85.46542	8.75059	0.2096694	0.28179783	2.3041511	21	—	—
322972 2002 LS_{22}	14.9	X	180.10886	195.96441	70.45447	28.87683	0.0907381	0.18225203	3.0809723	21	—	—
322973 2002 LP_{57}	16.8	X	227.50494	137.63366	149.50891	9.06334	0.2379831	0.29070195	2.2568572	21	1 3.8	20.8
322974 2002 LR_{60}	17.3	X	208.28819	290.39953	307.14927	6.30569	0.2174824	0.28462611	2.2888617	21	—	—
322975 2002 LR_{63}	15.9	X	150.01993	196.30674	94.04362	16.50127	0.2518163	0.17641831	3.1485235	21	—	—
322976 2002 MJ_{3}	17.5	X	30.64579	230.21702	104.45803	21.96616	0.0818014	0.37341442	1.9098913	21	12 8.3	19.6
322977 2002 MY_{4}	17.3	X	156.47633	164.39225	161.26881	8.72982	0.2321912	0.28428886	2.2906715	21	—	—
322978 2002 MP_{6}	15.7	X	108.34750	114.19845	178.31630	11.63296	0.0792293	0.16956667	3.2327768	21	12 6.3	20.7
322979 2002 NU_{3}	16.5	X	111.48058	91.45217	234.56832	9.51860	0.2393345	0.27780739	2.3261632	21	—	—
322980 2002 NJ_{19}	17.8	X	141.73956	166.85016	139.01451	6.07234	0.2550317	0.28046867	2.3114250	21	—	—
322981 2002 NO_{45}	15.3	X	173.81876	10.14423	289.03356	10.38469	0.1674070	0.18106853	3.0943830	21	—	—
322982 2002 NJ_{52}	17.7	X	65.04917	41.19131	287.67969	1.13014	0.1940635	0.27178376	2.3604078	21	—	—
322983 2002 NP_{59}	15.7	X	154.83823	120.56137	119.74071	17.29932	0.2181356	0.17321015	3.1872820	21	11 26.6	21.4
322984 2002 NR_{69}	15.7	X	150.65536	232.22545	102.83255	6.41817	0.1382629	0.18087662	3.0965714	21	1 6.5	20.2
322985 2002 NS_{70}	17.6	X	311.12991	288.41795	125.74944	24.28605	0.1102544	0.37155876	1.9162451	21	11 30.1	19.6
322986 2002 NN_{72}	17.5	X	72.43751	140.75432	151.21628	6.81081	0.1103835	0.26984184	2.3717187	21	11 16.1	20.7
322987 2002 NJ_{75}	17.2	X	96.37368	341.64703	319.67175	6.64800	0.1144557	0.27359683	2.3499683	21	12 23.9	20.6
322988 2002 NA_{76}	16.6	X	160.11255	141.55280	155.49852	12.53645	0.1542662	0.17734911	3.1374973	21	—	—
322989 2002 OR_{6}	15.7	X	237.15966	343.17037	262.46775	9.71147	0.2487440	0.18308054	3.0716702	21	—	—
322990 2002 OO_{10}	17.2	X	43.73720	234.03710	102.27567	3.40091	0.2293832	0.26893556	2.3770440	21	12 23.6	20.2
322991 2002 OU_{11}	15.4	X	122.51868	131.94985	223.06115	15.59379	0.1409635	0.17887223	3.1196613	21	—	—
322992 2002 OR_{12}	16.5	X	269.61745	114.10371	261.77876	9.42779	0.2279692	0.25244486	2.4794672	21	6 4.2	20.2
322993 2002 OB_{18}	17.2	X	106.64428	332.01418	289.20186	18.09925	0.0661375	0.37371162	1.9088786	21	11 24.9	19.7
322994 2002 OJ_{22}	17.7	X	271.07986	302.08137	134.53851	25.23964	0.0506139	0.36800516	1.9285613	21	10 25.5	20.3
322995 2002 OC_{29}	16.2	X	229.92007	33.14970	220.04301	7.33391	0.2275946	0.18271072	3.0758138	21	—	—
322996 2002 OT_{30}	15.6	X	181.76619	42.83355	224.81699	10.39674	0.2063890	0.17712853	3.1401016	21	—	—
322997 2002 OQ_{32}	17.5	X	210.15771	120.31949	133.05526	5.60249	0.1400453	0.28436322	2.2902722	21	—	—
322998 2002 OC_{35}	17.8	X	37.86828	167.04283	159.65935	8.02619	0.0729344	0.26725703	2.3869865	21	11 11.8	20.8
322999 2002 OK_{36}	15.6	X	176.60245	316.85125	342.24938	16.29530	0.1881548	0.17986619	3.1081575	21	—	—
323000 2002 PL_{36}	17.6	X	54.46381	127.24306	198.81567	1.85460	0.2061737	0.26902506	2.3765168	21	12 19.4	20.9
323001 2002 PM_{52}	17.5	X	130.74201	313.95819	336.08967	4.11841	0.2776385	0.27746862	2.3280562	21	—	—
323002 2002 PH_{55}	16.0	X	197.46459	116.71227	198.30713	1.79413	0.3029015	0.18324705	3.0698092	21	1 28.1	21.5
323003 2002 PK_{67}	17.9	X	140.54820	134.30918	143.43385	3.96077	0.2213928	0.27777842	2.3263250	21	—	—
323004 2002 PA_{72}	15.9	X	158.67507	117.65205	197.29409	12.94386	0.2201297	0.17899790	3.1182009	21	—	—
323005 2002 PN_{103}	16.0	X	148.90018	88.57474	204.73050	7.56540	0.1886733	0.17474078	3.1686422	21	—	—
323006 2002 PA_{116}	16.5	X	340.47956	75.06620	264.37543	7.96328	0.2439160	0.25783225	2.4448069	21	8 14.3	18.1
323007 2002 PW_{116}	16.9	X	5.76823	170.93421	181.37935	8.21646	0.2660860	0.26303323	2.4124721	21	11 26.1	19.1
323008 2002 PX_{125}	16.8	X	86.52557	1.91470	351.21590	4.09050	0.2491122	0.27611914	2.3356354	21	—	—
323009 2002 PD_{131}	17.5	X	91.91225	107.13088	207.29740	2.83406	0.2514738	0.27337959	2.3512131	21	—	—
323010 2002 PK_{134}	15.4	X	150.33891	131.63354	151.74234	16.75107	0.2200570	0.17362908	3.1821531	21	—	—
323011 2002 PQ_{154}	15.8	X	223.41610	129.38662	121.31420	16.59228	0.2663551	0.18296520	3.0729610	21	—	—
323012 2002 PQ_{155}	18.1	X	156.48974	281.22019	10.84328	1.81785	0.2451431	0.28100369	2.3084902	21	—	—
323013 2002 PT_{161}	16.6	X	151.53004	165.91796	130.18402	5.10710	0.2880834	0.17597225	3.1538420	21	—	—
323014 2002 PJ_{167}	17.3	X	143.57116	55.37598	354.27817	4.29047	0.2383439	0.23785900	2.5798215	21	3 30.5	21.4
323015 2002 PJ_{169}	15.7	X	190.78210	73.62195	146.56578	11.49893	0.0807484	0.16970729	3.2309907	21	12 5.8	20.8
323016 2002 PU_{169}	17.3	X	161.60916	315.72051	328.32027	4.80412	0.1590227	0.27961749	2.3161134	21	—	—
323017 2002 PV_{171}	18.3	X	140.87938	23.72411	228.92880	1.77258	0.1619842	0.27388470	2.3483214	21	12 7.5	22.0
323018 2002 PN_{175}	17.5	X	43.80946	309.62219	23.14574	4.35009	0.1553617	0.26865577	2.3786941	21	12 7.9	20.5
323019 2002 PB_{176}	17.1	X	48.46258	153.43640	219.67349	5.97386	0.1110515	0.27453569	2.3446076	21	—	—
323020 2002 PP_{191}	17.8	X	174.15229	276.85087	333.15499	2.34150	0.2021542	0.27870884	2.3211447	21	—	—
323021 2002 PC_{193}	15.5	X	300.91379	183.27003	209.66503	9.61137	0.0746553	0.15627470	3.4135815	21	8 25.5	20.2
323022 2002 QV_{4}	17.3	X	168.22858	211.36919	59.73233	6.54886	0.2455479	0.27927419	2.3180111	21	—	—
323023 2002 QX_{21}	17.2	X	83.11419	1.11343	322.48332	7.79896	0.1357414	0.27408338	2.3471864	21	—	—
323024 2002 QV_{23}	16.2	X	177.65048	155.53340	137.15786	2.40389	0.1907427	0.17817141	3.1278364	21	—	—
323025 2002 QS_{28}	17.0	X	129.87023	177.94692	113.52506	7.53115	0.1366205	0.27708155	2.3302239	21	—	—
323026 2002 QT_{47}	16.9	X	132.36370	184.32656	123.00508	7.25677	0.2573607	0.27818999	2.3240299	21	—	—
323027 2002 QG_{66}	15.3	X	207.27358	89.85372	146.05022	21.53654	0.0814938	0.17468463	3.1693212	21	—	—
323028 2002 QP_{72}	16.9	X	89.25034	344.85272	337.77817	7.22298	0.1370032	0.27323872	2.3520212	21	—	—
323029 2002 QY_{96}	16.2	X	122.76936	311.84486	1.54522	5.27622	0.1246339	0.17324670	3.1868337	21	—	—
323030 2002 QN_{104}	17.7	X	162.61404	31.30002	238.12351	1.36032	0.1578458	0.27900269	2.3195147	21	—	—
323031 2002 QV_{108}	17.6	X	203.98894	85.13275	142.74753	2.52820	0.1696692	0.27979825	2.3151158	21	—	—
323032 2002 QY_{109}	17.3	X	359.02599	215.85867	150.13559	6.77589	0.1915992	0.26515744	2.3995704	21	11 21.8	19.6
323033 2002 QO_{116}	15.6	X	254.96328	81.35040	336.45324	9.48262	0.1595191	0.15046236	3.5009358	21	7 23.2	20.9
323034 2002 QW_{129}	17.1	X	168.92221	287.08684	321.74901	8.93123	0.1839488	0.27677905	2.3319214	21	12 28.2	20.8
323035 2002 QX_{130}	17.5	X	170.52939	132.59709	123.66405	7.63013	0.0953555	0.27696784	2.3308616	21	—	—
323036 2002 RY_{3}	15.8	X	149.40006	119.43715	199.17323	14.42301	0.0737224	0.17722357	3.1389789	21	—	—
323037 2002 RS_{13}	17.1	X	359.60679	357.21540	5.75670	5.06918	0.1872269	0.26275588	2.4141694	21	11 13.1	19.2
323038 2002 RH_{22}	15.9	X	104.63692	223.54646	125.68597	1.78670	0.1977092	0.17219544	3.1997910	21	—	—
323039 2002 RF_{29}	15.6	X	171.95318	131.15154	176.07323	10.82866	0.2766282	0.17840814	3.1250690	21	1 2.4	21.2
323040 2002 RP_{30}	17.1	X	20.11290	107.00073	246.00136	3.34343	0.1839770	0.26541846	2.3979970	21	12 6.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323041 2002 RF_{35}	17.1	X	303.97792	46.55707	335.49768	14.28081	0.1212629	0.25759992	2.4462766	21	8 21.7	19.7
323042 2002 RQ_{45}	17.4	X	62.41273	290.86282	37.28186	2.79392	0.2347909	0.26936041	2.3745439	21	—	—
323043 2002 RK_{56}	16.7	X	40.18581	15.35761	315.91075	5.38949	0.1309249	0.26477428	2.4018849	21	11 26.1	19.7
323044 2002 RT_{67}	14.9	X	83.24764	160.03816	202.17687	20.46742	0.1399083	0.16915125	3.2380676	21	—	—
323045 2002 RT_{89}	17.0	X	93.42332	319.50927	340.33458	6.65183	0.1490175	0.27007996	2.3703245	21	12 20.6	20.7
323046 2002 RH_{91}	17.0	X	53.74995	334.51423	351.84519	4.71182	0.2414236	0.26712281	2.3877860	21	12 22.9	20.4
323047 2002 RR_{140}	16.5	X	89.76007	208.60495	98.90379	7.43516	0.1776823	0.27046856	2.3680536	21	12 28.6	20.1
323048 2002 RP_{143}	18.2	X	186.04060	113.18578	180.58663	5.14619	0.2889413	0.28410314	2.2916697	21	—	—
323049 2002 RN_{169}	17.3	X	69.06634	301.62760	350.62682	4.94017	0.0962967	0.26426231	2.4049861	21	11 5.6	20.5
323050 2002 RF_{180}	17.4	X	147.33749	59.65136	176.01871	4.75747	0.1109588	0.26638274	2.3922065	21	11 22.8	20.9
323051 2002 RP_{180}	17.8	X	99.52473	301.27402	356.59216	2.96247	0.1896206	0.27011647	2.3701109	21	12 26.4	21.5
323052 2002 RW_{190}	16.9	X	78.44798	290.12192	12.16976	13.66607	0.1910270	0.26879057	2.3778988	21	12 10.2	20.8
323053 2002 RS_{193}	16.1	X	170.28315	150.61233	151.02515	4.29813	0.2130742	0.17688733	3.1429555	21	—	—
323054 2002 RM_{194}	17.9	X	153.70811	292.46707	6.14503	2.88008	0.2245930	0.27950308	2.3167454	21	—	—
323055 2002 RU_{201}	17.6	X	115.47556	228.26531	62.69605	2.94427	0.2103182	0.27333703	2.3514572	21	—	—
323056 2002 RJ_{219}	17.4	X	65.52993	336.21555	356.19172	2.22893	0.2318783	0.27069871	2.3667112	21	—	—
323057 2002 RB_{254}	16.8	X	87.69432	73.28146	174.72029	12.96871	0.0569290	0.26118382	2.4238470	21	9 27.6	19.9
323058 2002 RZ_{267}	17.7	X	129.79959	38.21922	238.77052	5.73649	0.2068744	0.27467278	2.3438274	21	12 27.2	21.6
323059 2002 SZ_{4}	17.1	X	334.16679	205.67216	189.38488	6.22052	0.1193976	0.26172132	2.4205273	21	11 7.4	19.4
323060 2002 SV_{31}	17.6	X	192.65276	265.78041	144.04631	7.37972	0.3170962	0.24167735	2.5525764	21	5 12.4	22.4
323061 2002 SU_{38}	17.5	X	337.76201	216.96326	140.89805	3.32754	0.1970683	0.25839002	2.4412873	21	9 16.7	19.1
323062 2002 SU_{39}	17.2	X	318.16698	322.06250	49.06528	4.54694	0.2496531	0.25715656	2.4490875	21	8 14.2	19.1
323063 2002 SP_{45}	17.4	X	132.04004	298.92766	20.57146	6.24863	0.2612903	0.27674282	2.3321249	21	—	—
323064 2002 SK_{51}	17.6	X	26.87612	302.38506	32.77479	5.36340	0.1770421	0.26421327	2.4052836	21	11 20.0	20.3
323065 2002 ST_{66}	15.5	X	135.73324	269.98839	13.14118	10.57717	0.0986233	0.17020188	3.2247284	21	12 22.3	20.7
323066 2002 TT_{5}	17.3	X	44.22131	269.18960	65.96811	1.84289	0.3035626	0.26637976	2.3922243	21	12 31.5	20.8
323067 2002 TU_{19}	17.6	X	64.60094	128.22168	182.09541	4.10173	0.1880891	0.26603102	2.3943145	21	12 8.1	21.0
323068 2002 TS_{54}	15.1	X	20.74928	325.28452	42.45533	22.65687	0.1438463	0.15747507	3.3962123	21	11 22.6	19.5
323069 2002 TF_{57}	17.7	X	234.43237	78.10526	20.31102	20.33257	0.1011067	0.35988848	1.9574503	21	9 17.8	20.0
323070 2002 TT_{78}	15.8	X	88.31138	299.86393	5.89176	23.02289	0.2733505	0.27188590	2.3598166	21	—	—
323071 2002 TV_{88}	16.8	X	105.78676	311.17635	341.78056	6.86349	0.0973011	0.26739004	2.3861948	21	12 20.8	20.4
323072 2002 TB_{94}	17.3	X	342.26692	350.98804	7.17864	8.18021	0.1333385	0.25934986	2.4352602	21	9 26.9	19.4
323073 2002 TJ_{96}	17.5	X	240.72456	254.82961	202.72734	21.28808	0.1099363	0.36229602	1.9487689	21	9 10.0	19.9
323074 2002 TS_{96}	17.1	X	77.51546	8.56021	293.48554	1.65277	0.2273148	0.26745108	2.3858317	21	12 14.1	20.7
323075 2002 TB_{103}	16.9	X	335.29381	351.37824	1.14330	12.96571	0.1765474	0.25689835	2.4507283	21	9 4.8	18.9
323076 2002 TL_{106}	17.5	X	355.26977	23.65820	335.12046	3.19799	0.1868936	0.26066341	2.4270720	21	10 27.9	19.5
323077 2002 TR_{112}	16.5	X	84.98265	50.41991	330.26843	12.08336	0.1954479	0.22356096	2.6886777	21	—	—
323078 2002 TB_{116}	16.9	X	80.53089	74.48851	250.20787	6.75461	0.2162251	0.26994808	2.3710964	21	—	—
323079 2002 TW_{129}	16.5	X	83.58736	343.23762	347.64193	12.27754	0.2078067	0.27118666	2.3638713	21	—	—
323080 2002 TK_{146}	16.7	X	167.69864	191.69310	208.10440	14.04269	0.1617471	0.23774967	2.5806124	21	4 3.2	20.9
323081 2002 TE_{175}	16.9	X	24.63719	357.37520	331.11946	6.85233	0.2271387	0.26337986	2.4103550	21	11 13.7	19.6
323082 2002 TJ_{182}	17.1	X	319.16919	93.76425	282.60866	6.35160	0.1795319	0.25786249	2.4446157	21	8 29.7	19.4
323083 2002 TQ_{261}	17.4	X	316.34864	164.57894	195.61552	3.60883	0.1872280	0.25438649	2.4668346	21	7 29.3	19.7
323084 2002 TL_{281}	17.2	X	338.56476	335.56505	18.08183	20.82654	0.0832158	0.36059606	1.9548888	21	10 2.1	18.6
323085 2002 TZ_{323}	17.4	X	152.62190	243.77242	4.19396	6.35834	0.0612696	0.26900886	2.3766122	21	12 13.9	20.7
323086 2002 TJ_{325}	17.7	X	116.50493	263.49747	26.26290	2.81046	0.2288203	0.27218063	2.3581128	21	—	—
323087 2002 TB_{387}	16.8	X	70.65433	156.26551	152.26362	6.88484	0.1159675	0.26307808	2.4121979	21	12 4.2	20.2
323088 2002 UX_{54}	17.1	X	78.24036	214.90054	97.30401	6.54857	0.0422634	0.26484036	2.4014853	21	12 8.6	20.2
323089 2002 VT_{20}	17.6	X	128.52354	102.93982	317.71573	6.17694	0.3822798	0.23134594	2.6280167	21	4 10.9	22.2
323090 2002 VP_{21}	17.1	X	182.99910	90.73336	347.08955	4.11930	0.2513000	0.24149627	2.5538523	21	6 5.6	21.6
323091 2002 VL_{26}	17.5	X	148.81382	204.10792	233.05000	4.25013	0.2685229	0.23531503	2.5983816	21	5 10.7	21.9
323092 2002 VR_{35}	16.6	X	132.98355	229.35972	231.48634	11.76349	0.2267253	0.23487333	2.6016383	21	5 23.9	20.8
323093 2002 VM_{42}	17.4	X	313.36006	170.42657	200.54335	2.25576	0.1957172	0.25400766	2.4692867	21	8 8.2	19.7
323094 2002 VS_{46}	17.3	X	130.56087	240.65126	190.64026	4.82760	0.2379181	0.23266708	2.6180589	21	4 15.9	21.5
323095 2002 VP_{82}	16.7	X	147.67716	303.60377	87.43003	8.03081	0.3726342	0.23101372	2.6305357	21	3 26.6	21.6
323096 2002 VE_{102}	16.6	X	344.44710	85.39193	246.42295	8.54056	0.1367252	0.25333462	2.4736582	21	8 14.7	19.1
323097 2002 VA_{114}	17.0	X	208.60182	150.72699	230.79629	11.83634	0.2444684	0.23916097	2.5704501	21	4 16.2	21.5
323098 2002 VF_{145}	17.6	X	25.65494	179.72350	156.77272	3.24507	0.2282700	0.26112449	2.4242141	21	11 29.5	20.4
323099 2002 WC_{9}	16.9	X	321.03647	9.04140	349.80210	2.73127	0.1858501	0.25321770	2.4744196	21	8 8.5	19.0
323100 2002 WR_{22}	16.9	X	249.17153	26.02393	73.67968	7.87062	0.0403828	0.25359241	2.4719815	21	10 3.9	20.2
323101 2002 XE_{5}	16.6	X	99.20120	80.78761	58.53627	23.78017	0.3214282	0.23339490	2.6126133	21	6 16.4	20.8
323102 2002 XD_{10}	17.0	X	159.76143	18.05062	64.05694	15.72912	0.1590891	0.23809908	2.5780870	21	5 20.7	21.0
323103 2002 XR_{25}	17.4	X	203.77732	125.31270	296.39826	1.50021	0.1795744	0.24135378	2.5548573	21	6 3.8	21.6
323104 2002 XJ_{36}	16.4	X	232.57158	321.02913	69.70230	10.77739	0.0661209	0.24127219	2.5554333	21	5 31.5	19.9
323105 2002 YW_{5}	16.5	X	97.47359	35.52023	99.35571	13.40190	0.2358523	0.22934812	2.6432562	21	6 3.3	20.4
323106 2002 YM_{6}	16.4	X	62.93462	81.52963	99.76155	13.84431	0.2731297	0.22926890	2.6438651	21	6 24.7	19.5
323107 2002 YW_{7}	17.2	X	217.69585	250.02402	137.49193	2.30634	0.1102359	0.23722589	2.5844095	21	5 8.3	21.0
323108 2002 YV_{8}	15.7	X	280.23445	99.57903	276.15442	13.86626	0.1676014	0.24506841	2.5289748	21	6 26.4	18.8
323109 2002 YR_{20}	16.5	X	151.76527	332.50399	100.72586	14.61047	0.1600016	0.23331913	2.6131790	21	5 7.1	20.8
323110 2002 YO_{28}	16.7	X	86.59967	220.58202	294.76333	10.60150	0.1861715	0.23103901	2.6303437	21	6 7.7	20.3
323111 2002 YL_{29}	16.8	X	128.29189	154.05966	294.58790	13.05604	0.2275135	0.23005520	2.6378374	21	4 29.3	21.2
323112 2002 YS_{31}	16.7	X	123.85779	133.71295	314.24356	5.87168	0.2773562	0.22863034	2.6487856	21	5 1.7	21.0
323113 2003 AS	16.2	X	116.70907	192.95285	247.49204	12.94075	0.2172417	0.22734746	2.6587407	21	4 6.9	20.3
323114 2003 AK_{13}	16.6	X	124.61686	186.06362	263.51556	13.14073	0.2046031	0.22956439	2.6415958	21	4 26.0	20.8
323115 2003 AG_{16}	16.1	X	156.90274	319.40634	112.52858	14.51588	0.0829129	0.23055693	2.6340091	21	5 5.6	20.2
323116 2003 AP_{23}	16.5	X	255.02112	45.47283	11.12852	2.12435	0.1202248	0.24677594	2.5172953	21	7 27.7	19.8
323117 2003 AF_{32}	16.9	X	213.20345	46.88590	4.10712	1.57675	0.1777461	0.23920950	2.5701025	21	5 29.7	21.0
323118 2003 AQ_{36}	16.1	X	262.99424	259.78546	144.65307	4.03985	0.1797023	0.24600208	2.5225718	21	7 11.5	19.6
323119 2003 AB_{38}	16.6	X	109.96524	197.67681	249.63057	6.29238	0.2726135	0.22758811	2.6568661	21	4 17.6	20.5
323120 2003 AF_{46}	16.3	X	109.23379	181.68323	302.72547	11.12811	0.1366910	0.23179176	2.6246459	21	5 15.8	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323121 2003 AE_{59}	15.7	X	75.81245	208.28752	328.42149	11.71379	0.2251788	0.22937832	2.6430242	21	6 30.5	19.3
323122 2003 AC_{61}	16.8	X	222.49491	309.97145	146.30103	4.80564	0.0952940	0.24436689	2.5338125	21	8 12.9	20.5
323123 2003 AJ_{68}	16.2	X	169.51458	339.14250	66.08693	12.06985	0.1770184	0.23015209	2.6370970	21	4 18.7	20.6
323124 2003 AL_{71}	16.9	X	224.16910	159.96584	264.01567	3.72305	0.2008824	0.24055295	2.5605244	21	6 24.4	21.1
323125 2003 AT_{84}	16.1	X	161.95396	83.45970	28.22969	7.78023	0.1576784	0.23778229	2.5803763	21	6 29.4	20.3
323126 2003 BU_{4}	16.7	X	330.27365	88.15512	190.17039	7.06309	0.2341990	0.22817163	2.6523345	21	4 17.5	19.4
323127 2003 BP_{16}	16.0	X	103.86814	70.03350	113.09004	8.08998	0.1378785	0.23387385	2.6090452	21	7 30.5	19.7
323128 2003 BZ_{21}	16.3	X	139.93453	289.98921	141.63799	25.47994	0.1599779	0.22795746	2.6539955	21	4 26.1	20.9
323129 2003 BH_{23}	16.8	X	160.21667	246.81193	171.16899	12.89094	0.2625736	0.23140725	2.6275525	21	4 29.0	21.5
323130 2003 BK_{43}	16.4	X	172.68513	216.98374	238.63566	4.05516	0.1498466	0.23685584	2.5871006	21	6 18.5	20.4
323131 2003 BC_{55}	16.9	X	115.03253	81.84258	36.12825	2.68330	0.1648336	0.23012523	2.6373022	21	5 20.5	20.7
323132 2003 BQ_{68}	16.9	X	301.25279	282.00915	316.38317	3.71221	0.0498961	0.21936501	2.7228548	21	2 11.0	20.6
323133 2003 BB_{72}	15.9	X	45.13817	282.18394	287.82304	11.75832	0.2132990	0.22806408	2.6531682	21	6 25.1	18.5
323134 2003 BJ_{75}	17.0	X	133.09939	3.50338	80.48595	11.92786	0.2269670	0.22904400	2.6455954	21	5 6.3	21.3
323135 2003 BN_{75}	15.9	X	194.32998	49.32491	12.13719	12.88510	0.1341633	0.23438009	2.6052870	21	5 23.2	20.2
323136 2003 BE_{76}	16.6	X	50.20393	108.76164	81.67112	12.63348	0.1117616	0.22818411	2.6522378	21	5 22.6	19.7
323137 2003 BM_{80}	15.3	X	347.41600	217.61845	9.29530	5.81132	0.1888178	0.11281103	4.2419774	21	4 2.7	20.3
323138 2003 BU_{92}	16.8	X	77.88488	253.55687	266.50107	12.59351	0.2333295	0.22877023	2.6477057	21	6 10.2	20.1
323139 2003 CG_{1}	15.9	X	146.16382	80.66260	1.78199	11.11192	0.2781075	0.22934364	2.6432906	21	5 12.4	20.6
323140 2003 CO_{7}	17.0	X	87.75579	132.83150	342.46706	7.64916	0.2464403	0.22404713	2.6847867	21	4 22.8	20.6
323141 2003 DC_{3}	16.0	X	59.46506	178.40153	350.85823	8.07425	0.1583952	0.22463161	2.6801276	21	5 9.6	19.2
323142 2003 DB_{4}	16.2	X	74.44851	160.12058	342.11429	17.13576	0.1367415	0.22418840	2.6836588	21	4 16.8	19.8
323143 2003 DG_{14}	15.6	X	359.33449	119.29472	95.07645	25.26829	0.1869274	0.21850723	2.7299761	21	4 5.6	19.1
323144 2003 DT_{17}	15.8	X	73.59520	259.82591	299.16193	9.73717	0.1735724	0.23031566	2.6358483	21	7 18.5	19.1
323145 2003 DS_{24}	16.5	X	70.14273	96.18227	353.56248	13.08706	0.1347852	0.21705596	2.7421313	21	2 11.9	19.8
323146 2003 EF_{15}	16.5	X	112.00469	158.56069	311.81086	6.28386	0.2490266	0.22620496	2.6676856	21	5 16.3	20.6
323147 2003 ER_{18}	15.5	X	56.38367	38.46588	159.88043	31.96117	0.0269373	0.22961131	2.6412359	21	6 5.2	19.8
323148 2003 EB_{27}	17.2	X	75.52579	341.33211	174.48271	4.15102	0.2097190	0.22584420	2.6705257	21	5 28.9	20.5
323149 2003 EC_{40}	16.0	X	17.14479	148.65178	91.41015	13.95572	0.2487288	0.22398953	2.6852470	21	6 11.9	18.0
323150 2003 EL_{59}	16.3	X	85.10245	23.82016	77.44572	5.89938	0.2214349	0.22153154	2.7050731	21	4 3.2	19.7
323151 2003 EE_{63}	16.2	X	2.75918	157.09996	42.24206	13.34677	0.1092733	0.21856989	2.7294543	21	3 19.3	19.5
323152 2003 EL_{63}	16.3	X	75.53462	94.44752	69.18014	13.98440	0.1120644	0.22617260	2.6679400	21	5 23.7	19.7
323153 2003 EM_{63}	16.4	X	47.02877	104.09490	70.50070	13.41701	0.1370246	0.22316084	2.6918905	21	4 30.4	19.5
323154 2003 FD	16.0	X	80.04786	141.14552	22.68486	22.63938	0.0532158	0.22791102	2.6543560	21	5 12.8	19.8
323155 2003 FH_{20}	16.0	X	56.09983	144.85259	36.69666	12.50333	0.0315601	0.22631950	2.6667854	21	5 6.4	19.3
323156 2003 FM_{20}	16.4	X	126.42400	67.99208	36.08068	13.45163	0.2270037	0.22828495	2.6514566	21	5 19.5	20.6
323157 2003 FG_{27}	16.8	X	17.00844	347.61447	189.68115	13.41486	0.1165624	0.21759202	2.7376257	21	3 3.8	20.0
323158 2003 FB_{50}	16.1	X	50.03328	104.25675	29.93701	23.74583	0.2642518	0.21778756	2.7359868	21	3 30.6	18.8
323159 2003 FH_{51}	16.9	X	12.32153	88.87636	107.64483	2.89758	0.1924404	0.22031038	2.7150599	21	3 22.3	19.4
323160 2003 FB_{56}	16.6	X	339.69171	261.76948	346.08065	6.31187	0.1172957	0.22181287	2.7027853	21	4 6.3	19.7
323161 2003 FW_{67}	15.8	X	289.74556	213.33653	45.75993	10.08130	0.1092819	0.21434125	2.7652361	21	2 20.8	19.9
323162 2003 FB_{69}	16.5	X	34.66905	189.13736	27.41497	13.64986	0.1145301	0.22459192	2.6804433	21	5 28.5	19.7
323163 2003 FE_{78}	16.9	X	68.60002	342.49039	170.68878	6.63558	0.2227121	0.22356583	2.6886386	21	5 17.8	20.1
323164 2003 FZ_{91}	16.3	X	354.84754	153.89390	61.31312	8.27246	0.1046886	0.21763420	2.7372720	21	3 25.9	19.6
323165 2003 FZ_{93}	15.6	X	315.90224	244.17535	62.65806	14.44773	0.1501679	0.22270037	2.6955999	21	5 18.1	18.7
323166 2003 FN_{94}	15.6	X	9.89119	140.94061	71.81798	11.67447	0.1024887	0.21838501	2.7309945	21	4 17.9	18.9
323167 2003 FD_{95}	16.9	X	28.71645	314.52706	199.88650	9.46591	0.1892815	0.21719911	2.7409263	21	2 20.0	19.7
323168 2003 FO_{117}	16.2	X	103.56717	343.33975	154.57492	15.54915	0.0708139	0.22611989	2.6683546	21	5 24.3	20.2
323169 2003 FV_{126}	16.7	X	166.42226	29.98791	348.01184	14.77920	0.1610436	0.21904896	2.7254732	21	3 9.3	20.9
323170 2003 GU_{3}	15.7	X	342.23925	286.52728	5.47352	12.57774	0.2581104	0.22362156	2.6881919	21	5 25.5	18.4
323171 2003 GK_{10}	15.8	X	40.70941	7.25494	187.88323	14.60151	0.0514257	0.22118277	2.7079160	21	5 8.4	19.3
323172 2003 GL_{10}	16.3	X	36.50429	55.38321	180.81212	9.84947	0.2176708	0.22462364	2.6801910	21	7 15.9	19.2
323173 2003 GC_{13}	15.2	X	325.67214	61.25816	221.11881	25.47494	0.2148649	0.21661274	2.7458705	21	4 17.9	18.4
323174 2003 GY_{19}	16.9	X	314.14269	2.62953	182.44293	6.55313	0.0615412	0.20955364	2.8071950	21	—	—
323175 2003 GY_{22}	16.1	X	328.40412	242.85986	27.98337	8.01188	0.2471990	0.21698440	2.7427341	21	4 3.6	19.3
323176 2003 GA_{27}	16.3	X	347.27385	9.51672	199.35887	13.42158	0.1325979	0.21525543	2.7574013	21	2 22.1	19.8
323177 2003 GH_{35}	15.8	X	322.26483	94.25226	191.64677	8.86573	0.2348360	0.22010418	2.7167553	21	4 15.5	19.1
323178 2003 HT_{1}	15.5	X	293.07273	124.17187	188.32589	16.13107	0.1636393	0.21882703	2.7273157	21	4 22.4	19.3
323179 2003 HR_{32}	18.0	X	272.57514	352.71184	341.92870	8.28471	0.6872018	0.42638651	1.7482374	21	3 5.8	22.0
323180 2003 HZ_{32}	16.0	X	314.25575	46.07327	210.91750	15.70731	0.2771395	0.21244242	2.7816889	21	2 14.1	20.3
323181 2003 KC_{13}	16.5	X	327.67489	135.13082	79.74450	10.25008	0.0929509	0.21123834	2.7922495	21	2 14.7	20.3
323182 2003 MQ_{5}	16.2	X	18.16703	242.95158	129.04414	22.02867	0.2765372	0.28322832	2.2963862	21	—	—
323183 2003 NJ	17.9	X	226.64392	225.21058	88.23216	4.50049	0.2275668	0.30982160	2.1630252	21	2 2.9	21.5
323184 2003 NT_{4}	15.9	X	294.80778	119.82954	155.02902	17.08285	0.2065128	0.21048795	2.7988818	21	3 1.5	19.9
323185 2003 NW_{12}	15.8	X	228.71582	37.99014	233.76865	14.39481	0.1674252	0.19493798	2.9458123	21	—	—
323186 2003 OE_{16}	15.4	X	84.33515	106.86475	256.22678	8.39926	0.1026382	0.17984144	3.1084427	21	—	—
323187 2003 OV_{27}	15.4	X	101.78286	184.89415	138.36195	18.46964	0.1976417	0.18029786	3.1031946	21	—	—
323188 2003 ON_{33}	17.4	X	26.49232	284.09558	81.34568	6.17308	0.1884978	0.28299627	2.2976414	21	—	—
323189 2003 QJ_{1}	17.2	X	197.16256	76.52904	250.06127	2.03069	0.2018130	0.30477188	2.1868523	21	1 24.2	20.7
323190 2003 QL_{10}	14.7	X	89.43945	105.40800	256.30660	20.36312	0.1365302	0.18062911	3.0993995	21	—	—
323191 2003 QC_{15}	16.3	X	163.00286	127.76811	190.70973	8.92279	0.1560855	0.18817817	3.0159437	21	—	—
323192 2003 QP_{16}	15.7	X	62.44272	204.08099	154.69614	12.16996	0.0766672	0.17765930	3.1338443	21	—	—
323193 2003 QP_{35}	15.2	X	61.96438	7.80792	337.52087	10.80407	0.1892931	0.17502399	3.1652232	21	—	—
323194 2003 QA_{45}	17.4	X	144.29027	79.46506	243.32928	5.29132	0.1815292	0.29677018	2.2259866	21	—	—
323195 2003 QS_{48}	15.2	X	193.93929	46.96789	154.22264	23.42138	0.0715858	0.17554482	3.1589593	21	11 21.9	20.4
323196 2003 QB_{68}	17.3	X	35.77411	207.76165	163.25786	5.58311	0.1675619	0.28575396	2.2828351	21	—	—
323197 2003 QU_{70}	15.4	X	135.59683	150.58552	133.46352	14.53282	0.0476653	0.17818264	3.1277050	21	12 24.2	20.2
323198 2003 QQ_{74}	17.9	X	159.68086	85.41390	226.61168	2.05273	0.1918370	0.29829355	2.2184014	21	—	—
323199 2003 QV_{75}	15.8	X	80.56651	182.65623	176.47717	18.23065	0.2354389	0.17858808	3.1229694	21	—	—
323200 2003 QT_{104}	17.3	X	156.79293	343.68435	356.06967	5.82811	0.1688067	0.29959580	2.2119683	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323201 2003 QF_{120}	15.8	X	74.37654	147.75858	195.50709	9.78379	0.1209914	0.17720024	3.1392544	21	—	—
323202 2003 RS_{18}	17.3	X	338.21056	84.33431	323.19393	6.00482	0.2718396	0.27839143	2.3229087	21	12 25.8	18.6
323203 2003 RS_{19}	17.7	X	198.76188	41.10877	274.11082	0.76749	0.2018376	0.30366168	2.1921792	21	1 12.1	21.1
323204 2003 RY_{22}	14.3	X	332.39662	195.35390	224.68748	26.20505	0.1330065	0.16937807	3.2351762	21	11 16.2	18.1
323205 2003 SY	15.8	X	309.76961	109.37869	346.26137	10.31294	0.0642462	0.17361785	3.1822903	21	11 27.7	20.2
323206 2003 SB_{2}	17.6	X	349.36439	235.74297	174.23538	5.96480	0.0882958	0.28270478	2.2992204	21	12 27.6	20.1
323207 2003 SP_{2}	18.0	X	111.14288	31.10699	316.23572	1.50716	0.1401107	0.29293646	2.2453658	21	—	—
323208 2003 SL_{10}	15.8	X	228.24982	44.93150	193.13802	15.96854	0.0368891	0.18228437	3.0806080	21	—	—
323209 2003 SG_{13}	15.5	X	75.75440	181.55265	172.52877	17.64344	0.1877475	0.17749256	3.1358067	21	—	—
323210 2003 SO_{25}	17.5	X	62.03929	342.23123	336.07922	4.90225	0.1137644	0.28080970	2.3095532	21	12 7.8	20.6
323211 2003 SZ_{26}	15.7	X	159.61323	113.32079	188.53485	14.67465	0.1779155	0.18605159	3.0388816	21	—	—
323212 2003 SN_{30}	15.6	X	335.65738	249.17791	191.82964	11.74157	0.0988592	0.17170557	3.2058741	21	12 18.2	19.8
323213 2003 SP_{36}	15.5	X	109.71535	329.76000	8.16476	20.56096	0.1251406	0.17962422	3.1109483	21	—	—
323214 2003 SE_{38}	17.1	X	324.65916	108.00696	281.64501	8.75429	0.2308257	0.27459806	2.3442526	21	9 30.7	18.9
323215 2003 SO_{38}	16.7	X	113.12079	33.65729	306.69436	6.16844	0.1499168	0.29151675	2.2526500	21	—	—
323216 2003 ST_{39}	16.9	X	39.37031	191.11499	192.40970	23.80266	0.1832622	0.28505915	2.2865431	21	—	—
323217 2003 SD_{44}	16.9	X	37.83065	85.54395	277.45415	6.16846	0.1637753	0.28385723	2.2929930	21	—	—
323218 2003 SL_{54}	16.9	X	53.09373	103.64070	256.71886	4.76697	0.1919334	0.28566946	2.2832853	21	—	—
323219 2003 SS_{71}	17.4	X	94.47287	47.49741	303.02026	6.05023	0.1201903	0.29086510	2.2560132	21	—	—
323220 2003 SJ_{78}	15.3	X	337.69535	253.63701	208.98711	9.94283	0.0770837	0.17791170	3.1308797	21	—	—
323221 2003 SC_{79}	15.4	X	159.45733	114.61562	207.31788	14.97303	0.0858317	0.18509335	3.0493610	21	—	—
323222 2003 SD_{84}	17.2	X	284.83131	345.96591	279.20437	6.49163	0.2161794	0.31004995	2.1619631	21	1 21.4	20.4
323223 2003 SH_{86}	17.0	X	76.40381	41.33151	302.43136	6.47625	0.1392767	0.28613860	2.2807889	21	—	—
323224 2003 SX_{95}	15.4	X	117.65100	344.67574	1.68581	17.09207	0.1894269	0.18118830	3.0930192	21	—	—
323225 2003 SN_{98}	16.8	X	352.83508	145.62091	252.29471	6.24193	0.1106350	0.28019753	2.3129159	21	12 18.3	19.1
323226 2003 SY_{111}	15.8	X	41.70515	20.04432	344.14850	8.16731	0.2141815	0.17276242	3.1927864	21	—	—
323227 2003 SG_{113}	15.3	X	330.48967	198.49026	243.54772	10.46365	0.0530101	0.17671725	3.1449717	21	12 12.9	19.4
323228 2003 SF_{123}	15.4	X	138.83130	287.45567	49.06938	12.67059	0.2053600	0.18395332	3.0619467	21	1 3.3	20.3
323229 2003 SW_{139}	16.3	X	112.98336	344.82254	352.82399	4.48368	0.1333572	0.18040118	3.1020096	21	—	—
323230 2003 SJ_{146}	16.7	X	334.50268	121.60128	269.86023	4.64517	0.1769432	0.27507213	2.3415584	21	11 5.1	18.4
323231 2003 SK_{154}	17.0	X	137.13486	112.18454	205.45186	8.57708	0.2031986	0.29240320	2.2480949	21	—	—
323232 2003 SB_{156}	15.5	X	116.62563	316.57576	10.80936	19.25536	0.0980820	0.17826887	3.1266963	21	—	—
323233 2003 ST_{158}	15.6	X	115.96224	145.48651	182.39273	18.24217	0.0872530	0.18128545	3.0919140	21	—	—
323234 2003 SM_{168}	17.4	X	121.32102	327.04362	346.27760	5.86788	0.1315052	0.28977762	2.2616539	21	—	—
323235 2003 SX_{171}	17.9	X	341.84649	67.19500	331.18360	5.24779	0.1609647	0.27893806	2.3198729	21	12 3.1	19.9
323236 2003 SA_{172}	17.4	X	66.87204	354.11518	354.92463	3.74405	0.1474378	0.28710309	2.2756779	21	—	—
323237 2003 SB_{174}	16.3	X	52.20509	332.21277	36.55593	7.92650	0.1574866	0.17460037	3.1703407	21	—	—
323238 2003 SO_{176}	17.8	X	48.83214	17.72800	0.77436	4.47344	0.1493864	0.28690684	2.2767156	21	—	—
323239 2003 SO_{178}	15.6	X	80.01664	15.41796	342.26379	14.29916	0.1402158	0.17895479	3.1187017	21	—	—
323240 2003 SC_{188}	16.7	X	143.45736	102.50496	234.52952	5.25699	0.2218474	0.29519368	2.2339049	21	—	—
323241 2003 SH_{189}	17.2	X	2.77753	74.87227	337.69325	5.84519	0.1768829	0.28257657	2.2999159	21	—	—
323242 2003 SQ_{194}	15.5	X	172.14031	312.39219	340.04456	9.58365	0.1427199	0.18211048	3.0825686	21	—	—
323243 2003 SO_{201}	17.6	X	68.79862	332.97982	44.76706	7.59120	0.1171284	0.28998693	2.2605551	21	—	—
323244 2003 SK_{205}	15.9	X	102.16282	320.39096	352.77045	4.19368	0.2440939	0.17666153	3.1456330	21	—	—
323245 2003 SA_{227}	15.8	X	146.34878	155.32175	183.57316	8.34028	0.1034317	0.18659054	3.0330272	21	1 1.1	20.4
323246 2003 SD_{228}	14.9	X	99.01289	329.83103	23.44956	29.18589	0.1192346	0.17722378	3.1389764	21	—	—
323247 2003 SN_{230}	16.9	X	348.26604	13.47302	15.01969	7.20770	0.1394650	0.27951602	2.3166739	21	11 27.7	19.1
323248 2003 SA_{233}	15.8	X	64.06885	205.54468	160.09986	10.51730	0.1271609	0.17562118	3.1580435	21	—	—
323249 2003 SG_{233}	17.2	X	177.89156	169.56407	159.40908	6.04926	0.1896677	0.30046109	2.2077195	21	1 9.1	20.4
323250 2003 SZ_{233}	15.7	X	199.55880	264.74026	28.30037	10.52194	0.1061058	0.18688996	3.0297868	21	1 2.1	20.6
323251 2003 SL_{237}	17.1	X	299.05066	87.05049	15.36209	6.29352	0.0450640	0.28240190	2.3008641	21	12 19.1	19.8
323252 2003 SR_{238}	15.6	X	126.03246	156.42185	196.84323	11.07450	0.0562887	0.18465541	3.0541804	21	—	—
323253 2003 SM_{244}	15.8	X	79.45297	147.26833	193.51313	16.47060	0.2007422	0.17531245	3.1617502	21	—	—
323254 2003 SY_{253}	17.6	X	327.36117	206.22085	209.92564	2.51540	0.1263885	0.27813177	2.3243542	21	11 29.6	19.7
323255 2003 SQ_{260}	16.6	X	144.49943	329.87777	317.29005	4.18473	0.1430738	0.17999373	3.1066892	21	—	—
323256 2003 SG_{268}	17.7	X	163.37886	278.79199	5.13029	6.72538	0.1134689	0.28961057	2.2625235	21	—	—
323257 2003 SW_{272}	15.7	X	24.11981	48.47102	342.02254	9.04113	0.0739464	0.17248435	3.1962169	21	12 23.7	20.1
323258 2003 SX_{279}	16.4	X	188.66939	82.53110	224.68759	3.13756	0.2188365	0.18941377	3.0028134	21	1 10.8	21.5
323259 2003 SP_{285}	17.6	X	359.09167	135.68872	275.03741	4.56843	0.1491197	0.28257645	2.2999165	21	—	—
323260 2003 SK_{315}	15.5	X	94.23758	238.70943	121.58021	16.64940	0.2247645	0.18006491	3.1058704	21	—	—
323261 2003 SW_{321}	15.9	X	63.15442	245.69402	187.03263	9.75819	0.0802861	0.18656031	3.0333548	21	1 6.8	19.9
323262 2003 SB_{323}	16.1	X	108.73833	8.34874	325.41184	5.09483	0.1467334	0.18025287	3.1037108	21	—	—
323263 2003 SD_{325}	17.9	X	217.06032	23.77946	253.41943	3.09606	0.1633827	0.30129896	2.2036247	21	—	—
323264 2003 SS_{325}	15.7	X	349.82891	247.37600	215.07626	8.44715	0.0377197	0.18063933	3.0992825	21	—	—
323265 2003 SL_{327}	16.0	X	142.90007	111.62230	205.89677	9.20714	0.1134988	0.18023009	3.1039724	21	—	—
323266 2003 SZ_{327}	15.6	X	175.97504	266.47369	9.25235	9.88711	0.0398076	0.18033351	3.1027856	21	—	—
323267 2003 SX_{334}	17.9	X	327.24399	56.98209	17.20120	7.32242	0.0763960	0.28159325	2.3052670	21	12 24.6	20.4
323268 2003 SD_{337}	16.1	X	35.90263	1.11335	348.04602	4.20510	0.0757501	0.17046690	3.2213853	21	11 17.3	20.5
323269 2003 SY_{337}	18.1	X	191.18450	121.86881	169.06475	5.04224	0.1794046	0.29737232	2.2229807	21	—	—
323270 2003 SA_{346}	16.0	X	170.33078	303.13504	354.33147	10.74467	0.1240241	0.18323202	3.0699771	21	—	—
323271 2003 SW_{363}	17.7	X	297.63694	145.79112	313.31554	5.74203	0.0719946	0.28267901	2.2993602	21	12 10.8	20.2
323272 2003 SW_{365}	17.3	X	271.93536	343.16009	220.69367	4.29898	0.0341372	0.29603854	2.2296527	21	—	—
323273 2003 SN_{379}	17.8	X	248.33601	72.31788	119.33454	1.45193	0.1966666	0.28953933	2.2628947	21	—	—
323274 2003 SQ_{390}	15.7	X	257.06345	132.11697	43.07298	9.89960	0.0404533	0.17544862	3.1601140	21	12 31.2	20.3
323275 2003 SK_{403}	16.2	X	133.51853	121.87213	192.61798	7.67272	0.1417934	0.18160641	3.0882700	21	—	—
323276 2003 SB_{410}	16.0	X	180.27869	115.14555	203.75692	5.33596	0.0733005	0.18905762	3.0065834	21	1 9.6	20.6
323277 2003 SP_{427}	16.2	X	173.12492	136.10120	202.25070	16.73963	0.1061195	0.19052567	2.9911192	21	1 24.0	21.2
323278 2003 SR_{429}	15.5	X	80.04667	219.45073	121.12285	10.95247	0.1597209	0.17466389	3.1695721	21	—	—
323279 2003 SW_{429}	18.0	X	228.48055	237.85505	36.07077	3.49169	0.0952273	0.29709830	2.2243473	21	—	—
323280 2003 SB_{430}	15.5	X	16.73981	18.70011	1.30953	21.54622	0.0331152	0.17078187	3.2174233	21	11 18.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323281 2003 SP_{431}	17.7	X	199.60879	52.01633	221.05426	6.67701	0.1663378	0.29727487	2.2234665	21	—	—
323282 2003 SJ_{432}	16.1	X	192.79482	266.59964	4.16463	9.27116	0.0864703	0.18345904	3.0674440	21	—	—
323283 2003 SQ_{432}	15.5	X	96.81034	127.46207	202.41964	15.20879	0.0366337	0.17612193	3.1520548	21	12 31.8	20.4
323284 2003 SU_{432}	15.7	X	107.95878	19.32205	321.56706	8.88500	0.0911101	0.17916135	3.1163042	21	—	—
323285 2003 TC_{1}	14.9	X	90.88907	80.45571	259.86360	18.18493	0.0873325	0.17560923	3.1581868	21	—	—
323286 2003 TB_{9}	17.0	X	66.10921	339.87992	33.63665	7.68386	0.1780922	0.28753251	2.2734116	21	—	—
323287 2003 TR_{11}	15.6	X	102.29336	148.85266	200.64233	9.56739	0.1031825	0.17766859	3.1337351	21	—	—
323288 2003 TC_{14}	17.3	X	1.83619	160.67700	229.90674	5.92944	0.2288126	0.27906500	2.3191694	21	—	—
323289 2003 TU_{18}	17.7	X	86.95141	90.82839	249.30844	2.06274	0.1857872	0.28761476	2.2729782	21	—	—
323290 2003 TU_{19}	16.6	X	158.86471	110.05442	227.87218	4.10055	0.2458684	0.29779195	2.2208919	21	1 7.9	19.7
323291 2003 TJ_{20}	17.0	X	318.98672	168.06481	268.36863	7.98181	0.0760172	0.27995421	2.3142559	21	12 13.4	19.1
323292 2003 TT_{25}	17.3	X	177.01510	337.10873	337.40870	5.90843	0.1027016	0.29750323	2.2223285	21	—	—
323293 2003 TZ_{37}	15.8	X	150.73925	317.42007	319.67765	8.29100	0.0661822	0.17511802	3.1640899	21	12 31.5	20.7
323294 2003 TN_{41}	17.4	X	343.16220	121.08170	318.92761	3.65734	0.0690383	0.28387084	2.2929198	21	—	—
323295 2003 TC_{53}	17.9	X	357.47660	351.23320	69.12300	4.88389	0.1003218	0.28266231	2.2994507	21	—	—
323296 2003 UV_{5}	17.6	X	279.08806	353.56821	64.17874	6.99572	0.3093611	0.26734789	2.3864456	21	8 2.9	20.7
323297 2003 UX_{7}	15.7	X	131.29235	277.43866	32.70770	11.43617	0.1577541	0.17871691	3.1214685	21	—	—
323298 2003 UT_{12}	17.2	X	327.46900	127.37907	325.15737	7.25500	0.0941858	0.28326935	2.2961645	21	—	—
323299 2003 UE_{17}	17.0	X	310.65644	52.85312	3.39692	7.61464	0.1027720	0.27426810	2.3461324	21	10 25.3	19.3
323300 2003 UD_{22}	19.6	X	72.08548	23.54314	253.80825	10.07637	0.3183403	0.78010990	1.1686887	21	—	—
323301 2003 UG_{23}	17.1	X	152.15568	292.32744	37.61925	6.08627	0.1940757	0.29418733	2.2389964	21	—	—
323302 2003 UF_{29}	17.5	X	278.16615	38.81413	23.34375	1.60326	0.1754092	0.26820770	2.3813426	21	8 29.2	20.1
323303 2003 UZ_{34}	17.6	X	172.25804	95.80674	215.79452	4.62478	0.1805331	0.29484248	2.2356785	21	—	—
323304 2003 UA_{35}	16.9	X	187.19855	119.15493	203.86519	7.09446	0.1960663	0.29850439	2.2173567	21	1 10.5	20.4
323305 2003 UE_{62}	17.5	X	323.61938	303.73890	97.27458	6.56858	0.2336501	0.27408796	2.3471603	21	10 29.3	18.9
323306 2003 UU_{72}	17.5	X	219.67712	48.83963	221.30688	4.80997	0.1697531	0.29492482	2.2352624	21	—	—
323307 2003 UF_{81}	17.2	X	36.61063	232.64027	134.81859	5.44328	0.1770663	0.28120929	2.3073649	21	—	—
323308 2003 UH_{81}	17.5	X	290.87960	234.08529	169.01473	5.64916	0.3347056	0.26848436	2.3797065	21	7 21.7	20.4
323309 2003 UK_{95}	16.9	X	144.51797	152.51611	175.36808	4.92141	0.2484304	0.29426145	2.2386205	21	—	—
323310 2003 UQ_{95}	17.5	X	112.18555	314.24565	28.39005	7.16292	0.1554227	0.29056589	2.2575617	21	—	—
323311 2003 UZ_{95}	15.6	X	156.29959	302.02889	27.53978	15.36904	0.1570669	0.18443765	3.0565840	21	1 8.6	20.6
323312 2003 UT_{96}	15.3	X	66.20362	159.94313	205.11909	10.51166	0.0653308	0.17559114	3.1584038	21	—	—
323313 2003 US_{101}	17.5	X	54.83557	159.30903	191.59446	9.77346	0.1637514	0.28280759	2.2986632	21	—	—
323314 2003 UZ_{107}	15.7	X	169.83071	36.41070	286.00315	10.88288	0.2080673	0.18538286	3.0461854	21	1 13.4	20.8
323315 2003 UF_{111}	15.7	X	173.44459	295.11495	318.65661	10.92932	0.0815770	0.17838305	3.1253620	21	12 27.7	20.6
323316 2003 UA_{112}	17.3	X	37.06250	4.00269	30.58755	6.70819	0.1209894	0.28603648	2.2813317	21	—	—
323317 2003 UY_{114}	17.8	X	69.48839	133.99827	225.71660	0.19823	0.2076462	0.28541163	2.2846601	21	—	—
323318 2003 UE_{115}	15.5	X	264.34206	100.75095	41.80237	6.66486	0.0265910	0.16797984	3.2531039	21	11 30.6	20.2
323319 2003 US_{117}	17.6	X	356.89952	3.90577	39.95321	22.11687	0.0988348	0.38926651	1.8576819	21	—	—
323320 2003 UB_{118}	17.4	X	186.58029	9.24077	294.66384	2.27922	0.1826387	0.29737691	2.2229578	21	—	—
323321 2003 UZ_{131}	17.4	X	77.38527	24.75489	325.29965	4.06752	0.2036934	0.28507523	2.2864571	21	—	—
323322 2003 UJ_{133}	17.9	X	127.61849	269.54711	71.05631	3.91631	0.1902807	0.29328311	2.2435961	21	—	—
323323 2003 UD_{135}	15.4	X	230.68220	72.45450	210.27279	9.99949	0.1026828	0.18851642	3.0123349	21	1 16.3	20.2
323324 2003 UL_{135}	17.1	X	12.76742	55.94255	324.99465	5.93998	0.1414085	0.27845212	2.3225712	21	12 31.4	19.7
323325 2003 UR_{141}	17.5	X	160.98903	176.75362	153.06774	5.89558	0.2209727	0.29794555	2.2201285	21	—	—
323326 2003 UZ_{150}	14.9	X	124.63017	276.71333	36.27774	26.58156	0.1475403	0.17653940	3.1470836	21	—	—
323327 2003 UK_{156}	17.5	X	91.97890	271.70536	82.45045	3.42417	0.1866829	0.28931268	2.2640764	21	—	—
323328 2003 UJ_{164}	15.3	X	306.52314	183.05981	196.90324	10.29890	0.0943763	0.15584015	3.4199242	21	8 14.8	19.9
323329 2003 UD_{167}	18.0	X	268.13803	125.97360	305.97605	4.67051	0.2394263	0.26708268	2.3880252	21	8 16.4	20.9
323330 2003 UM_{172}	16.8	X	96.59794	241.94644	83.39292	5.64213	0.2266940	0.28643759	2.2792015	21	—	—
323331 2003 UC_{175}	17.0	X	170.90405	264.15454	44.65816	7.66464	0.1815913	0.29494932	2.2351386	21	—	—
323332 2003 UJ_{178}	17.7	X	300.21428	100.67734	310.23459	1.71287	0.1767357	0.27160994	2.3614148	21	9 19.0	19.8
323333 2003 UG_{185}	17.9	X	313.59105	44.13591	15.25022	1.52978	0.1689668	0.27365374	2.3496425	21	11 2.7	19.5
323334 2003 UW_{185}	15.7	X	169.11003	252.75776	26.53965	9.19893	0.0686117	0.17742732	3.1365754	21	—	—
323335 2003 UD_{191}	17.0	X	269.23234	12.32034	66.14804	4.11713	0.1689875	0.26890158	2.3772443	21	9 11.3	19.9
323336 2003 UL_{193}	15.5	X	127.05510	283.22432	14.00212	21.66259	0.0148289	0.17541127	3.1605625	21	12 28.1	20.5
323337 2003 UT_{203}	17.7	X	42.05220	132.03965	237.21408	2.07175	0.1546768	0.28201900	2.3029463	21	—	—
323338 2003 UW_{212}	15.0	X	144.43819	280.04457	42.47199	15.56848	0.2604032	0.18042162	3.1017753	21	—	—
323339 2003 UE_{219}	17.6	X	273.59532	108.50388	333.11635	2.77457	0.1378599	0.27129138	2.3632630	21	9 24.7	20.1
323340 2003 UF_{222}	17.7	X	303.75472	149.05133	260.11691	4.25949	0.1211063	0.27131621	2.3631188	21	9 29.3	20.1
323341 2003 UC_{233}	16.8	X	191.22054	52.09851	258.50782	5.78498	0.1586611	0.29682821	2.2256964	21	—	—
323342 2003 UK_{261}	15.5	X	104.28059	328.77823	29.32313	11.98138	0.1106798	0.17996985	3.1069640	21	—	—
323343 2003 US_{267}	17.1	X	52.06187	336.45912	40.79720	7.70864	0.1590832	0.28364080	2.2941593	21	—	—
323344 2003 UQ_{277}	17.2	X	279.63799	322.74550	95.58693	3.38615	0.1661270	0.26935693	2.3745644	21	8 28.5	19.8
323345 2003 UM_{295}	17.7	X	201.35477	9.95397	216.23678	6.44546	0.0535205	0.28536909	2.2848872	21	—	—
323346 2003 UP_{299}	17.5	X	25.55652	349.82491	33.34656	7.16195	0.1175449	0.28173202	2.3045099	21	—	—
323347 2003 UH_{304}	15.9	X	147.43786	40.21553	266.11248	4.07464	0.1283341	0.17870757	3.1215772	21	—	—
323348 2003 UP_{325}	16.2	X	246.62501	27.42550	206.11306	14.54492	0.0647050	0.18917449	3.0053450	21	—	—
323349 2003 UM_{328}	15.6	X	315.28844	274.72247	210.72569	9.07558	0.0572806	0.17971457	3.1099055	21	—	—
323350 2003 US_{331}	17.5	X	276.50796	269.61992	228.11123	5.77206	0.1207331	0.28489468	2.2874230	21	12 26.9	19.7
323351 2003 UV_{332}	17.6	X	336.50247	59.03576	336.39154	3.42530	0.1710671	0.27753556	2.3276819	21	11 16.9	19.4
323352 2003 UQ_{337}	16.2	X	151.61716	60.27508	185.59780	21.35686	0.0345447	0.17183828	3.2042233	21	11 26.5	21.2
323353 2003 UQ_{343}	15.9	X	134.29332	70.99242	182.40834	12.63798	0.0694113	0.17001074	3.2271450	21	11 17.8	20.9
323354 2003 UV_{360}	16.0	X	141.19611	280.19834	13.89872	1.15071	0.1497410	0.17905424	3.1175468	21	—	—
323355 2003 US_{362}	17.9	X	358.35726	352.39119	59.37108	7.78014	0.1154833	0.28156931	2.3053976	21	—	—
323356 2003 UW_{373}	16.4	X	134.69414	95.50701	218.30444	7.94405	0.1295358	0.18251908	3.0779664	21	—	—
323357 2003 UZ_{375}	18.1	X	253.83101	36.37309	238.40391	2.14522	0.1693614	0.30604587	2.1807792	21	1 9.1	21.3
323358 2003 UX_{376}	17.8	X	320.82894	317.08998	192.30317	6.42908	0.0652595	0.29314967	2.2442769	21	—	—
323359 2003 US_{377}	16.7	X	217.41656	118.90905	173.83637	1.88288	0.1608105	0.19123025	2.9837676	21	1 16.3	21.5
323360 2003 UU_{400}	17.2	X	25.29984	146.03765	257.44141	6.35377	0.1310123	0.28788903	2.2715343	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323361 2003 WQ_{3}	17.8	X	332.84563	294.97730	97.10798	1.59492	0.2255131	0.27286458	2.3541707	21	11 5.7	19.0
323362 2003 WF_{6}	17.1	X	228.52973	208.48347	246.97319	6.93268	0.1952347	0.26346879	2.4098125	21	8 6.7	20.8
323363 2003 WB_{7}	15.2	X	129.02271	269.39218	89.35552	17.91526	0.2042045	0.18076226	3.0978773	21	1 20.4	20.0
323364 2003 WD_{17}	17.0	X	22.87435	24.37334	4.28059	6.22865	0.2080415	0.28001203	2.3139373	21	—	—
323365 2003 WF_{24}	17.0	X	156.29249	284.53963	38.68204	3.93730	0.1914293	0.29240838	2.2480683	21	—	—
323366 2003 WA_{34}	17.9	X	261.59278	132.86378	307.77664	1.52837	0.1982966	0.26615047	2.3935980	21	8 26.8	20.8
323367 2003 WC_{60}	15.8	X	104.31950	294.58752	62.60312	2.19299	0.1597269	0.17681088	3.1438614	21	—	—
323368 2003 WK_{65}	17.0	X	104.29239	272.95115	74.15817	4.76841	0.1678724	0.28712237	2.2755761	21	—	—
323369 2003 WA_{71}	14.9	X	112.35912	334.38900	25.47956	26.82774	0.2385615	0.17941140	3.1134080	21	1 12.5	19.9
323370 2003 WH_{93}	17.6	X	264.15009	121.55083	287.79242	2.11290	0.2907309	0.26410287	2.4059539	21	7 5.2	20.8
323371 2003 WB_{102}	17.8	X	330.02651	17.89625	24.56187	2.13303	0.2118186	0.27352969	2.3503528	21	11 14.5	19.1
323372 2003 WL_{109}	15.4	X	236.53978	216.96371	262.83818	9.44271	0.0831741	0.15827144	3.3848104	21	9 18.8	20.6
323373 2003 WW_{110}	16.7	X	208.72216	161.70240	45.48047	22.78429	0.1597882	0.27770610	2.3267288	21	12 13.2	20.2
323374 2003 WY_{116}	17.1	X	322.57870	18.42161	33.23764	7.03303	0.2014886	0.27226650	2.3576170	21	11 9.3	18.7
323375 2003 WX_{117}	17.4	X	359.40359	354.39595	25.89556	3.01814	0.2061072	0.27470882	2.3436224	21	12 16.7	19.5
323376 2003 WG_{143}	17.6	X	316.88549	215.35357	181.22106	1.16984	0.1751639	0.26987923	2.3714997	21	10 2.9	19.6
323377 2003 WY_{148}	14.8	X	165.91057	268.54958	38.53917	16.43050	0.2326283	0.17835549	3.1256839	21	—	—
323378 2003 XG_{4}	17.1	X	279.75819	319.53348	108.66032	6.96474	0.1286650	0.26741078	2.3860714	21	9 20.7	19.9
323379 2003 XC_{29}	17.5	X	128.73316	220.10470	56.88391	3.85790	0.0811405	0.27776116	2.3264213	21	12 26.5	20.7
323380 2003 YY	16.8	X	185.39927	111.43932	288.55302	17.51741	0.0937381	0.35971598	1.9580761	21	3 27.2	19.7
323381 2003 YB_{16}	17.3	X	206.62319	250.71243	295.18824	16.74940	0.0835001	0.38076456	1.8852330	21	12 19.8	19.3
323382 2003 YA_{31}	17.5	X	302.59959	324.93476	81.44486	2.31754	0.1824632	0.26761610	2.3848509	21	9 17.6	19.6
323383 2003 YX_{58}	17.4	X	252.06131	337.13627	90.69812	2.11112	0.1838112	0.26259706	2.4151428	21	7 30.9	20.7
323384 2003 YX_{59}	17.3	X	228.77850	49.09243	65.76087	3.32082	0.1343213	0.26471591	2.4022379	21	9 13.3	20.6
323385 2003 YQ_{69}	17.4	X	349.40817	357.33620	89.16816	7.03458	0.0718130	0.28189342	2.3036302	21	—	—
323386 2003 YU_{73}	17.2	X	336.80255	99.07847	291.22415	4.93552	0.2283891	0.27279027	2.3545982	21	11 11.2	18.8
323387 2003 YE_{74}	17.6	X	326.94405	101.02618	288.83343	4.46424	0.2478245	0.27086500	2.3657424	21	10 9.6	19.0
323388 2003 YS_{90}	17.0	X	263.39559	23.78237	96.69964	7.41414	0.0712173	0.27094808	2.3652588	21	11 17.1	19.8
323389 2003 YG_{93}	17.5	X	316.19682	330.23207	79.08098	5.49810	0.1343380	0.26973416	2.3723499	21	10 27.3	19.6
323390 2003 YL_{96}	17.3	X	251.36738	4.19405	115.58814	3.30437	0.1414950	0.26781096	2.3836939	21	10 17.7	20.2
323391 2003 YV_{103}	17.0	X	110.59890	315.49435	109.14210	5.47571	0.2675586	0.24117028	2.5561531	21	3 22.9	20.6
323392 2003 YZ_{105}	16.8	X	70.31792	304.23787	87.41340	9.06487	0.2137468	0.28510709	2.2862868	21	—	—
323393 2003 YE_{116}	17.5	X	272.39157	128.92613	310.88717	5.92760	0.0755859	0.26401435	2.4064916	21	9 27.2	20.4
323394 2003 YF_{116}	17.5	X	296.81909	2.21972	75.43865	3.18878	0.1715056	0.26829824	2.3808068	21	10 26.4	19.5
323395 2003 YV_{135}	17.3	X	302.76075	35.57437	42.65260	7.09301	0.1034062	0.26947658	2.3738615	21	11 13.6	19.5
323396 2004 AE_{3}	17.6	X	319.53442	108.67785	314.11557	18.65796	0.0952215	0.38036493	1.8865533	21	12 29.3	19.2
323397 2004 AU_{12}	16.6	X	119.39197	121.86311	97.14063	7.69253	0.0691583	0.25963427	2.4334814	21	10 2.8	20.1
323398 2004 AR_{20}	17.5	X	158.80218	102.00682	99.47224	3.97358	0.1809670	0.26087608	2.4257528	21	10 21.5	21.5
323399 2004 BZ	17.7	X	154.63411	53.61697	170.90680	2.33117	0.1550029	0.26354770	2.4093315	21	11 14.6	21.4
323400 2004 BH_{21}	17.4	X	180.84233	49.55998	72.52743	6.02604	0.1720301	0.25453283	2.4658890	21	8 1.2	21.4
323401 2004 BM_{22}	17.7	X	190.39821	49.04923	118.91778	6.21840	0.1981232	0.26088463	2.4256998	21	10 8.1	21.6
323402 2004 BP_{23}	16.9	X	209.59455	184.48578	314.47665	5.39991	0.1074187	0.25965439	2.4333558	21	9 21.6	20.5
323403 2004 BZ_{29}	17.1	X	147.77079	248.06803	327.60131	5.98466	0.0872874	0.26061762	2.4273563	21	10 24.3	20.6
323404 2004 BK_{36}	17.0	X	236.47030	311.07220	117.21839	8.82884	0.1805486	0.25639996	2.4539031	21	7 13.8	20.8
323405 2004 BQ_{55}	17.0	X	214.31244	317.14587	132.82740	12.73395	0.1749523	0.25434007	2.4671347	21	7 20.1	20.9
323406 2004 BB_{86}	17.7	X	147.62276	307.14024	296.68962	16.47651	0.0428814	0.37861893	1.8923487	21	12 28.6	19.7
323407 2004 BD_{125}	18.0	X	242.48316	7.18864	66.40696	2.33765	0.1624747	0.25826533	2.4420730	21	7 30.4	21.4
323408 2004 BX_{132}	17.9	X	196.08337	240.28781	242.51581	2.30134	0.1433843	0.25654131	2.4530016	21	8 15.2	21.6
323409 2004 CK_{43}	17.4	X	143.55027	55.41251	157.15528	1.58158	0.1363953	0.25676663	2.4515664	21	10 19.5	21.2
323410 2004 CK_{84}	16.9	X	151.82338	72.57594	140.20143	6.82504	0.0765942	0.26043291	2.4285039	21	10 30.6	20.4
323411 2004 CQ_{110}	17.6	X	205.08557	300.18554	156.34681	24.43418	0.0967275	0.36407477	1.9424164	21	7 26.3	20.2
323412 2004 CB_{116}	16.9	X	221.50524	56.29778	100.33303	6.53544	0.1190807	0.26522174	2.3991826	21	11 2.2	20.2
323413 2004 CE_{119}	17.1	X	235.74573	321.54401	124.64799	5.81506	0.1055725	0.25753253	2.4467034	21	8 15.6	20.3
323414 2004 DQ_{19}	17.9	X	296.08468	285.19738	162.30061	22.65849	0.0976908	0.37907791	1.8908209	21	12 21.1	20.0
323415 2004 DM_{56}	17.7	X	211.15561	293.94946	182.34793	2.37009	0.1333759	0.25573625	2.4581470	21	8 23.5	21.4
323416 2004 EE_{1}	17.1	X	349.39898	345.11768	21.95488	20.65837	0.0773471	0.37216644	1.9141586	21	11 6.6	18.7
323417 2004 EQ_{1}	15.1	X	71.08394	168.11211	354.42921	8.84832	0.1400098	0.12444308	3.9733384	21	5 23.1	20.6
323418 2004 EH_{6}	17.3	X	95.28659	15.49391	181.40756	11.87235	0.0800129	0.24603089	2.5223748	21	7 27.9	20.9
323419 2004 EF_{10}	16.4	X	103.50378	13.43734	178.48688	11.57033	0.0682126	0.24722992	2.5142128	21	7 30.3	20.0
323420 2004 EB_{25}	17.4	X	312.44616	340.79574	46.84874	21.85856	0.0576735	0.36799851	1.9285845	21	10 16.6	19.1
323421 2004 EF_{77}	16.9	X	176.59138	297.40626	166.11554	11.50860	0.0493752	0.24598828	2.5226661	21	7 1.2	20.6
323422 2004 EJ_{84}	17.0	X	142.37708	37.11903	188.77697	6.44819	0.0683963	0.25775164	2.4453166	21	11 3.9	20.4
323423 2004 FQ_{2}	17.8	X	117.25998	103.37840	164.52127	23.08104	0.0730230	0.37455089	1.9060260	21	12 21.8	20.7
323424 2004 FK_{3}	17.7	X	287.76793	223.80946	177.87938	22.38224	0.1079043	0.36907878	1.9248195	21	9 2.0	19.4
323425 2004 FV_{4}	17.5	X	322.15755	51.69370	19.88716	21.90941	0.0824928	0.37611702	1.9007313	21	—	—
323426 2004 FA_{32}	15.9	X	130.33756	130.87203	97.28084	23.33052	0.1537225	0.25519351	2.4616311	21	11 6.1	20.3
323427 2004 FP_{46}	17.7	X	122.35351	245.86863	9.51932	20.93390	0.1331668	0.36944730	1.9235393	21	12 1.1	20.8
323428 2004 FR_{54}	16.9	X	87.80211	148.89877	72.71562	6.73979	0.0600245	0.24646932	2.5193827	21	8 24.0	20.3
323429 2004 FK_{103}	17.7	X	58.33019	28.18810	181.92189	1.97658	0.1150026	0.24159100	2.5531846	21	7 1.3	20.7
323430 2004 FZ_{116}	17.0	X	344.04083	122.44212	164.20301	14.00902	0.1729599	0.23760454	2.5816630	21	6 6.8	19.9
323431 2004 FG_{120}	16.3	X	287.55037	306.47788	43.05876	2.08368	0.2409793	0.24332324	2.5410526	21	5 19.4	19.7
323432 2004 FN_{138}	16.8	X	295.32972	351.65605	62.18900	22.91642	0.0933528	0.36668558	1.9331853	21	10 26.9	18.6
323433 2004 FY_{147}	16.4	X	88.76126	248.02218	304.40028	12.44191	0.1130348	0.24288268	2.5441244	21	7 21.1	19.7
323434 2004 FF_{165}	16.4	X	40.11619	135.29166	131.13428	8.75494	0.1760723	0.24258946	2.5461741	21	9 3.9	19.2
323435 2004 GC_{17}	16.3	X	158.09012	23.14222	134.62668	13.87206	0.0780411	0.24602804	2.5223943	21	8 23.6	20.0
323436 2004 GD_{21}	16.2	X	71.08069	151.59187	83.49185	10.74385	0.0484562	0.24360694	2.5390794	21	8 18.4	19.6
323437 2004 GZ_{21}	17.1	X	93.90009	1.94283	213.71588	6.27127	0.1219468	0.24472330	2.5313518	21	8 26.5	20.7
323438 2004 GM_{28}	17.2	X	260.51739	56.78658	17.38535	20.70677	0.0888292	0.36521192	1.9383822	21	9 21.5	19.1
323439 2004 GA_{49}	17.0	X	298.15805	307.36907	13.66062	2.88753	0.0986662	0.23592817	2.5938779	21	5 16.9	20.2
323440 2004 GY_{84}	17.1	X	337.89825	209.50644	99.44161	6.84111	0.1713602	0.23855278	2.5748171	21	6 26.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323441 2004 HT	17.4	X	226.68395	293.56051	215.00479	20.29969	0.0579585	0.37139525	1.9168074	21	11 24.2	19.3
323442 2004 HB_{1}	16.9	X	11.40478	63.70863	158.24551	7.69544	0.1474846	0.23256990	2.6187882	21	4 28.5	19.5
323443 2004 HP_{9}	16.4	X	104.82887	163.71658	29.83782	10.97665	0.0551141	0.24269976	2.5454026	21	8 8.7	20.0
323444 2004 HG_{11}	16.3	X	21.71093	218.06452	37.10546	15.07270	0.0663722	0.23984635	2.5655509	21	6 30.7	19.6
323445 2004 HV_{27}	16.6	X	87.52951	21.92605	197.51095	14.22538	0.0759844	0.24310079	2.5426025	21	8 15.4	20.2
323446 2004 HM_{28}	16.2	X	17.10755	19.39972	223.33792	12.28831	0.0961516	0.23515566	2.5995555	21	6 6.2	19.1
323447 2004 HS_{28}	16.6	X	23.33815	197.37905	55.59030	19.61486	0.2006346	0.23579362	2.5948645	21	7 15.1	19.5
323448 2004 HL_{29}	17.1	X	55.13134	238.50864	25.12838	3.96650	0.1398087	0.24420103	2.5349597	21	9 16.6	20.1
323449 2004 HY_{30}	16.8	X	337.64448	320.96470	335.65561	5.70766	0.3230544	0.23244448	2.6197301	21	5 10.3	19.1
323450 2004 HF_{33}	17.2	X	303.83260	40.27266	45.94495	22.46434	0.0884871	0.37179041	1.9154490	21	12 27.5	19.1
323451 2004 HN_{35}	16.8	X	56.73929	126.12479	103.03937	4.21584	0.1441387	0.23943959	2.5684557	21	7 31.9	19.8
323452 2004 HT_{52}	16.4	X	336.79778	241.79486	46.47790	12.86298	0.2330904	0.23221764	2.6214359	21	5 13.3	18.9
323453 2004 HQ_{53}	16.1	X	32.78118	169.36708	99.77108	15.69103	0.1182857	0.24080323	2.5587499	21	8 19.0	19.2
323454 2004 HL_{55}	16.1	X	25.07322	324.24121	329.22904	12.33704	0.2683927	0.24143630	2.5542751	21	9 24.9	18.7
323455 2004 HQ_{58}	16.8	X	18.71075	108.62659	167.81959	12.86624	0.2765127	0.23878675	2.5731349	21	8 19.7	18.9
323456 2004 HJ_{74}	16.7	X	22.70771	33.73896	188.98290	7.53828	0.1571813	0.23269159	2.6178751	21	5 22.2	19.3
323457 2004 JH_{4}	16.3	X	97.85087	149.74601	57.17602	5.17819	0.0433309	0.24195895	2.5505955	21	8 13.5	19.8
323458 2004 JW_{10}	16.9	X	109.39595	29.66156	139.88428	6.60039	0.2539813	0.24077948	2.5589182	21	7 30.6	21.0
323459 2004 JW_{17}	16.9	X	86.24952	323.82036	241.87698	11.22723	0.2107134	0.24099347	2.5574032	21	8 13.1	20.9
323460 2004 JO_{18}	16.4	X	342.12794	167.30529	106.46806	6.83202	0.0825163	0.23271873	2.6176716	21	5 23.6	19.5
323461 2004 JZ_{26}	16.3	X	334.01666	228.38485	63.07792	13.15678	0.2816144	0.23034263	2.6356425	21	5 7.3	18.7
323462 2004 JM_{28}	16.9	X	305.75357	239.45167	123.90080	26.23310	0.0457912	0.35539184	1.9739270	21	8 12.9	18.6
323463 2004 JA_{44}	16.6	X	91.00361	150.33275	67.88326	5.09899	0.0629199	0.24208703	2.5496958	21	8 23.0	20.1
323464 2004 KM_{3}	16.3	X	93.52880	146.94629	70.75333	4.50323	0.1072037	0.24219145	2.5489629	21	8 31.7	19.8
323465 2004 KM_{12}	16.8	X	319.32353	109.08399	195.57424	10.97956	0.3046827	0.22938587	2.6429662	21	4 23.9	19.9
323466 2004 KR_{13}	16.7	X	333.45528	103.84926	181.77469	12.25482	0.2509381	0.23126653	2.6286183	21	5 2.8	19.4
323467 2004 KX_{13}	17.1	X	17.41946	243.89647	76.91630	23.95657	0.0696226	0.36031650	1.9558999	21	10 30.2	19.4
323468 2004 KA_{15}	16.6	X	239.71786	342.46051	353.46327	4.76518	0.1993967	0.22363435	2.6880894	21	3 21.3	21.0
323469 2004 KH_{18}	16.5	X	0.68210	187.43232	63.01713	13.08501	0.1502233	0.23156744	2.6263407	21	5 17.6	18.9
323470 2004 KJ_{18}	16.4	X	314.51415	283.15017	358.99948	12.66277	0.3049121	0.22363981	2.6880456	21	3 17.9	19.7
323471 2004 LY_{1}	16.1	X	264.88239	182.34144	141.13135	13.28501	0.4246875	0.22064069	2.7123494	21	3 14.8	21.2
323472 2004 LM_{3}	16.0	X	48.13308	104.75158	127.14005	12.77316	0.1397731	0.23572678	2.5953550	21	7 20.1	18.9
323473 2004 LS_{3}	16.1	X	317.95187	159.28848	144.95110	14.23294	0.1966996	0.22989164	2.6390884	21	5 13.8	19.5
323474 2004 LU_{4}	16.1	X	250.85163	225.64484	128.85492	15.31590	0.0620988	0.22940905	2.6427881	21	5 12.5	20.1
323475 2004 LQ_{5}	16.5	X	333.29404	165.78367	156.23360	4.65111	0.2729707	0.23389037	2.6089224	21	6 22.7	18.7
323476 2004 LD_{7}	16.0	X	238.12780	68.16429	259.23722	13.68290	0.3375183	0.21733927	2.7397478	21	2 26.4	21.3
323477 2004 LG_{25}	15.5	X	3.40250	343.85456	274.54731	13.34497	0.1594665	0.22863179	2.6487744	21	6 3.8	18.2
323478 2004 LX_{26}	15.8	X	74.50409	142.95776	101.70824	13.88396	0.2220897	0.24216381	2.5491569	21	10 4.2	19.8
323479 2004 LP_{31}	16.3	X	295.84490	64.31240	222.50913	6.57126	0.2905663	0.21952381	2.7215415	21	3 2.5	20.6
323480 2004 NS_{10}	17.0	X	6.90989	313.44780	312.64295	4.37034	0.1594567	0.22987154	2.6392422	21	6 23.9	19.6
323481 2004 NY_{19}	16.3	X	180.87413	102.91443	252.74601	6.35992	0.2389887	0.20907603	2.8114685	21	2 25.0	21.2
323482 2004 NC_{28}	16.8	X	308.16853	131.05269	167.28780	3.65177	0.2553850	0.22306552	2.6926573	21	4 7.9	20.2
323483 2004 OW_{8}	16.8	X	291.06901	5.96818	278.53421	4.09314	0.1356619	0.21926750	2.7236620	21	3 14.7	20.8
323484 2004 OL_{15}	15.8	X	143.91416	3.14733	5.87553	15.39476	0.1443864	0.20404381	2.8575057	21	2 11.3	20.3
323485 2004 PO_{8}	16.0	X	310.06567	338.67666	316.63276	14.40402	0.2372490	0.22175017	2.7032948	21	3 31.4	19.9
323486 2004 PM_{25}	16.5	X	272.99755	339.89954	320.60935	7.73739	0.1840208	0.21671374	2.7450173	21	3 9.1	20.7
323487 2004 PV_{37}	16.1	X	327.63758	112.08397	155.44048	12.34331	0.1861476	0.22024975	2.7155581	21	4 9.7	19.4
323488 2004 PU_{45}	16.6	X	1.30527	212.29266	54.79041	3.02622	0.1599040	0.22857400	2.6492209	21	6 12.7	19.2
323489 2004 PP_{53}	16.6	X	262.51980	194.34603	110.56272	6.83144	0.2046436	0.21557997	2.7546332	21	3 7.5	21.0
323490 2004 PJ_{55}	16.4	X	142.00125	12.79283	350.71771	12.82811	0.1380260	0.20200358	2.8767139	21	1 31.2	20.8
323491 2004 PX_{56}	16.4	X	251.47006	174.95276	167.11027	6.12007	0.1271433	0.21872803	2.7281385	21	4 16.9	20.4
323492 2004 PV_{71}	16.3	X	248.52602	332.37770	327.19445	13.75585	0.1495805	0.21276539	2.7788732	21	2 17.9	20.6
323493 2004 PK_{73}	16.2	X	309.14103	316.26424	327.98474	11.23490	0.1451096	0.22024179	2.7156236	21	4 1.8	20.0
323494 2004 PB_{95}	15.8	X	336.39247	47.53757	243.96849	11.91674	0.1787469	0.22497438	2.6774046	21	5 27.2	18.3
323495 2004 PH_{100}	16.4	X	279.00354	157.45957	150.12620	10.47544	0.2089074	0.21670357	2.7451032	21	3 25.9	20.6
323496 2004 PO_{106}	15.6	X	35.17681	211.07782	170.82290	16.64153	0.3476000	0.18335699	3.0685821	21	—	—
323497 2004 PK_{115}	16.1	X	293.44923	221.12466	92.29883	16.26205	0.2078140	0.22067793	2.7120443	21	4 23.8	20.2
323498 2004 QE_{1}	17.2	X	17.92423	104.92504	171.44654	27.81674	0.3861359	0.23178002	2.6247346	21	9 9.1	19.0
323499 2004 QA_{4}	16.5	X	280.73226	316.27480	354.70490	9.29768	0.1860337	0.21988010	2.7186007	21	3 30.2	20.5
323500 2004 QL_{8}	16.6	X	341.76150	272.35682	20.86966	12.71067	0.2734127	0.22822778	2.6518994	21	5 23.6	19.1
323501 2004 QL_{9}	15.7	X	147.39006	333.04038	17.32379	10.07548	0.1108092	0.19995598	2.8963194	21	1 17.3	20.1
323502 2004 QV_{10}	16.4	X	283.99401	302.30602	33.37019	9.51528	0.2387813	0.22136754	2.7064090	21	4 28.5	20.2
323503 2004 QA_{12}	16.0	X	151.02446	353.72169	11.73869	15.57399	0.1420957	0.20326933	2.8647593	21	2 14.6	20.6
323504 2004 QC_{13}	16.4	X	290.83533	179.38463	110.89092	11.39212	0.2399295	0.21826653	2.7319828	21	3 15.1	20.6
323505 2004 QT_{25}	15.9	X	224.40630	217.49493	135.12282	11.32735	0.2205125	0.21213476	2.7843778	21	4 1.9	20.8
323506 2004 QF_{28}	15.9	X	15.04814	177.55414	262.46870	7.60541	0.0626327	0.19089649	2.9872444	21	—	—
323507 2004 RZ_{11}	16.6	X	339.73613	66.29409	208.48221	8.88523	0.1033507	0.22385113	2.6863537	21	5 18.9	19.7
323508 2004 RU_{33}	16.0	X	112.06150	215.98594	147.91972	15.16431	0.1794660	0.19582350	2.9369249	21	1 1.0	20.2
323509 2004 RS_{35}	15.8	X	358.53450	227.60450	155.04577	18.98176	0.1456399	0.17933875	3.1142487	21	11 20.1	19.9
323510 2004 RR_{38}	16.2	X	198.80357	353.79376	312.73103	7.40165	0.1467868	0.20157181	2.8808204	21	1 15.6	20.9
323511 2004 RJ_{39}	15.3	X	26.44981	79.85072	347.85410	10.91866	0.1829526	0.19071816	2.9891062	21	—	—
323512 2004 RU_{55}	15.7	X	272.50473	299.07867	11.20181	12.20266	0.1360609	0.21474438	2.7617743	21	3 28.9	19.6
323513 2004 RE_{57}	15.8	X	52.11045	72.04904	321.82450	8.78017	0.1090051	0.19037512	2.9926959	21	—	—
323514 2004 RF_{64}	16.0	X	88.00927	24.22488	350.88474	8.14243	0.0909493	0.19278592	2.9676944	21	—	—
323515 2004 RJ_{66}	16.6	X	22.51997	46.45137	358.69904	3.53313	0.2920415	0.18356360	3.0662790	21	—	—
323516 2004 RP_{68}	16.0	X	14.42595	199.15538	166.83827	7.53360	0.2556625	0.17828647	3.1264906	21	12 5.7	19.6
323517 2004 RB_{82}	15.9	X	92.89432	22.28319	1.93815	9.00179	0.1381080	0.19235978	2.9720757	21	—	—
323518 2004 RP_{93}	15.9	X	331.22104	41.25595	225.89486	8.34920	0.1552740	0.22038220	2.7144700	21	4 14.8	19.2
323519 2004 RC_{99}	16.9	X	236.20883	138.04386	179.10214	10.95564	0.1903921	0.21071783	2.7968458	21	2 24.7	21.7
323520 2004 RT_{100}	16.1	X	70.70215	202.33938	189.80509	9.07602	0.0967260	0.19289141	2.9666122	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323521 2004 RX_{100}	16.4	X	340.32427	324.06535	317.59298	4.88760	0.2543922	0.22395210	2.6855462	21	5 6.9	18.9
323522 2004 RC_{103}	16.2	X	319.08489	304.46823	319.60856	6.84348	0.2553197	0.21825318	2.7320942	21	3 6.6	19.9
323523 2004 RF_{113}	15.1	X	0.49351	101.98216	276.05132	11.90127	0.3056472	0.17462786	3.1700080	21	11 28.5	18.2
323524 2004 RY_{115}	16.9	X	307.75461	320.64209	312.85563	2.45726	0.1587985	0.21678735	2.7443959	21	3 19.6	20.5
323525 2004 RD_{135}	16.7	X	57.18343	345.39296	114.48233	3.21601	0.0263756	0.20319824	2.8654275	21	1 26.0	20.3
323526 2004 RO_{135}	16.3	X	347.20430	89.75281	358.49726	10.09720	0.2204341	0.18666521	3.0322183	21	—	—
323527 2004 RO_{147}	16.3	X	133.73067	32.32490	309.68243	0.87917	0.1228410	0.19562990	2.9388623	21	—	—
323528 2004 RR_{158}	16.2	X	19.29771	101.48635	306.67876	4.66763	0.1825389	0.18538524	3.0461593	21	—	—
323529 2004 RY_{173}	16.1	X	14.71867	213.67636	185.78930	17.54724	0.2667627	0.18356174	3.0662997	21	—	—
323530 2004 RG_{176}	15.9	X	105.82257	64.76006	307.41815	9.17674	0.1185974	0.19607863	2.9343768	21	—	—
323531 2004 RX_{179}	15.8	X	342.77289	97.73844	211.86846	12.34025	0.1879034	0.22641246	2.6660554	21	7 4.6	18.7
323532 2004 RN_{186}	16.5	X	115.80557	184.30632	189.90516	11.83539	0.0691201	0.19741665	2.9211029	21	—	—
323533 2004 RF_{187}	15.7	X	51.75081	84.12389	300.58398	8.69319	0.1008334	0.18727907	3.0255886	21	—	—
323534 2004 RP_{190}	16.1	X	281.76127	91.72548	220.16596	12.66494	0.1971827	0.21536389	2.7564754	21	3 30.7	20.3
323535 2004 RY_{196}	16.3	X	280.92756	121.26656	203.80687	13.43341	0.3572027	0.21767203	2.7369549	21	3 29.5	20.8
323536 2004 RR_{228}	15.7	X	30.29163	46.04886	6.23681	13.73806	0.1625338	0.18525782	3.0475559	21	—	—
323537 2004 RG_{253}	15.6	X	356.43920	336.31186	107.07866	12.09150	0.0921980	0.18536708	3.0463583	21	—	—
323538 2004 RA_{257}	16.2	X	73.66551	181.56610	235.19007	1.01463	0.0697315	0.19725767	2.9226723	21	—	—
323539 2004 RQ_{270}	16.2	X	319.27105	80.06847	170.70886	4.45605	0.0112557	0.21194221	2.7860639	21	3 29.6	19.8
323540 2004 RA_{271}	17.1	X	194.13645	301.91524	1.43223	1.79715	0.0762744	0.20061102	2.8900112	21	1 4.8	21.5
323541 2004 RS_{273}	16.4	X	4.38280	59.27720	9.19480	6.19996	0.1350999	0.18719923	3.0264488	21	—	—
323542 2004 RG_{278}	15.8	X	7.06270	29.34252	330.33141	23.17940	0.2035545	0.17566230	3.1575508	21	10 22.4	19.9
323543 2004 RX_{279}	16.7	X	277.26360	222.72246	192.22013	3.64379	0.3571180	0.16580238	3.2815236	21	7 16.1	21.6
323544 2004 RZ_{307}	15.9	X	248.86491	131.98306	198.41517	20.30683	0.2159391	0.21259505	2.7803574	21	3 21.0	20.6
323545 2004 RS_{345}	16.2	X	306.01108	95.54693	24.18619	15.56520	0.2163393	0.18072968	3.0982495	21	12 10.6	19.9
323546 2004 RA_{357}	15.7	X	91.29067	262.06889	152.45318	11.64421	0.0967365	0.19736888	2.9215743	21	1 23.0	19.7
323547 2004 SA_{15}	15.8	X	347.89612	260.37378	154.14571	17.18267	0.2130318	0.17931640	3.1145074	21	12 14.9	19.4
323548 2004 SY_{25}	15.2	X	17.02661	353.87116	24.05315	19.20847	0.1781946	0.17791632	3.1308255	21	12 8.7	19.4
323549 2004 SR_{30}	16.2	X	258.74234	311.77556	10.75646	7.62618	0.2193730	0.21350150	2.7724822	21	3 22.4	20.7
323550 2004 SM_{44}	15.8	X	308.25071	224.34587	203.49307	9.86094	0.2033371	0.17446222	3.1720142	21	10 9.3	19.5
323551 2004 SR_{44}	15.9	X	21.91007	53.08986	347.70192	9.30031	0.1508865	0.18419110	3.0593109	21	—	—
323552 Trudybell	16.0	X	323.49776	258.39203	187.71920	16.02171	0.0738625	0.18155173	3.0888900	21	12 9.8	20.3
323553 2004 TT_{5}	15.7	X	87.08852	301.69374	24.37310	9.63673	0.0689481	0.18212334	3.0824236	21	12 22.6	20.3
323554 2004 TK_{25}	16.4	X	254.12346	270.36112	7.08007	14.70305	0.1363377	0.20503451	2.8482935	21	2 4.9	21.1
323555 2004 TY_{27}	16.1	X	308.62731	92.61355	14.82416	8.75610	0.2137422	0.18082872	3.0971182	21	11 30.5	19.6
323556 2004 TD_{36}	16.0	X	316.47094	67.22457	17.31826	9.55592	0.0979458	0.17831220	3.1261898	21	11 22.6	20.0
323557 2004 TK_{37}	15.8	X	19.29916	65.78590	25.06651	10.04363	0.0553834	0.19018790	2.9946596	21	—	—
323558 2004 TH_{53}	15.9	X	148.53398	113.69509	213.16471	8.37623	0.1066353	0.19117674	2.9843243	21	—	—
323559 2004 TK_{54}	15.8	X	95.56374	155.99451	211.57828	10.45862	0.1192143	0.18826736	3.0149910	21	—	—
323560 2004 TK_{58}	16.4	X	40.28395	31.85484	13.31213	2.83027	0.1592722	0.18714259	3.0270595	21	—	—
323561 2004 TR_{73}	16.1	X	347.00510	56.78682	28.93045	13.01161	0.0772841	0.18288499	3.0738595	21	—	—
323562 2004 TA_{81}	16.5	X	224.23784	107.14096	236.00244	3.00917	0.1085730	0.20922517	2.8101322	21	3 20.7	20.8
323563 2004 TC_{85}	15.9	X	305.20487	57.59359	12.55227	13.01655	0.1214690	0.17485281	3.1672887	21	10 16.1	19.8
323564 2004 TS_{85}	16.6	X	306.76788	258.63058	5.49821	3.73328	0.1567290	0.21132910	2.7914500	21	3 9.1	20.2
323565 2004 TY_{86}	16.6	X	133.02248	179.68044	151.77271	0.45909	0.0283578	0.19166648	2.9792385	21	—	—
323566 2004 TV_{88}	16.1	X	233.94910	283.21448	22.77783	12.23946	0.0868688	0.20505214	2.8481303	21	2 21.8	20.6
323567 2004 TO_{92}	15.6	X	39.73623	344.07742	17.41210	10.17932	0.0903473	0.17975541	3.1094344	21	12 10.7	20.0
323568 2004 TJ_{103}	15.6	X	203.91132	91.84821	220.46113	16.53833	0.1653938	0.19947319	2.9009908	21	1 21.9	20.7
323569 2004 TG_{113}	15.9	X	310.66559	125.83031	8.02966	0.65960	0.1790466	0.18222824	3.0812404	21	—	—
323570 2004 TN_{114}	16.0	X	331.96904	74.48484	357.36918	6.24344	0.1555239	0.17946985	3.1127319	21	12 1.5	19.7
323571 2004 TV_{116}	15.4	X	45.10310	158.14927	220.10082	9.88092	0.0786936	0.18244636	3.0787841	21	—	—
323572 2004 TT_{129}	16.1	X	295.11280	266.16581	15.17428	7.62046	0.1928397	0.21421651	2.7663094	21	3 12.5	20.0
323573 2004 TO_{132}	15.8	X	39.08426	89.20492	290.84763	8.96305	0.0725388	0.18268974	3.0760493	21	—	—
323574 2004 TB_{144}	16.2	X	174.39781	310.65133	31.62467	8.56954	0.2072387	0.19985123	2.8973314	21	2 10.6	21.1
323575 2004 TX_{147}	15.8	X	71.11429	12.27360	5.78330	10.28726	0.0450492	0.18803179	3.0175087	21	—	—
323576 2004 TQ_{172}	15.7	X	27.20454	29.29162	347.21412	11.87841	0.1420443	0.17863024	3.1224780	21	12 21.0	20.0
323577 2004 TV_{172}	15.3	X	132.80191	32.16794	305.55382	9.14213	0.0803024	0.18973192	2.9994557	21	—	—
323578 2004 TA_{187}	16.3	X	304.13512	57.04572	202.28892	7.46481	0.1779347	0.21012799	2.8020773	21	2 22.0	20.4
323579 2004 TN_{188}	16.7	X	56.93106	130.74502	244.81903	1.05183	0.0611795	0.18559500	3.0438637	21	—	—
323580 2004 TT_{196}	15.9	X	287.71054	99.57387	26.81835	11.02130	0.0764039	0.17996633	3.1070044	21	12 5.9	20.1
323581 2004 TP_{201}	16.1	X	74.15207	338.29685	33.32392	10.29043	0.0901670	0.18401976	3.0612096	21	—	—
323582 2004 TF_{205}	16.0	X	107.60900	115.79934	231.61883	8.78536	0.0413995	0.18514281	3.0488178	21	—	—
323583 2004 TJ_{213}	16.9	X	273.18577	136.48234	180.75552	1.73984	0.2295272	0.21249988	2.7811874	21	3 27.7	21.0
323584 2004 TG_{214}	16.6	X	230.69821	109.84311	184.47355	1.66173	0.0563318	0.20055167	2.8905814	21	1 31.6	20.9
323585 2004 TK_{215}	16.5	X	151.09974	157.01260	202.58596	5.21118	0.0807677	0.19979861	2.8978400	21	1 25.1	20.9
323586 2004 TL_{227}	16.4	X	31.79766	28.10898	348.43165	4.75116	0.1540629	0.18073034	3.0982420	21	12 29.6	20.6
323587 2004 TM_{228}	16.5	X	14.46447	229.55811	209.66533	11.76561	0.0247567	0.18793755	3.0185173	21	—	—
323588 2004 TW_{238}	15.4	X	139.58979	306.05143	27.68221	18.13926	0.1223088	0.19153002	2.9806535	21	—	—
323589 2004 TY_{250}	16.5	X	2.42245	205.43119	213.25257	8.71607	0.0713810	0.18338369	3.0682842	21	12 29.9	20.7
323590 2004 TZ_{264}	16.0	X	296.82800	105.23964	217.39979	8.70748	0.1938973	0.21714480	2.7413833	21	5 4.6	19.7
323591 2004 TW_{265}	15.8	X	276.16071	127.94450	32.43914	10.16987	0.0198787	0.18361279	3.0657314	21	—	—
323592 2004 TZ_{266}	15.5	X	325.51870	211.31485	210.48566	10.42003	0.0635301	0.17530177	3.1618785	21	11 11.5	19.7
323593 2004 TD_{279}	15.3	X	165.37884	268.95292	49.82408	21.10343	0.0714016	0.19143223	2.9816684	21	—	—
323594 2004 TV_{279}	15.9	X	233.53226	329.82884	222.51611	4.54994	0.0957371	0.18104728	3.0946252	21	12 17.2	20.4
323595 2004 TB_{281}	16.2	X	2.96772	265.92084	122.72446	2.03994	0.1760363	0.17549485	3.1595589	21	12 2.7	19.7
323596 2004 TC_{294}	15.9	X	16.01951	50.21396	37.25457	11.54272	0.0198865	0.18751071	3.0230964	21	—	—
323597 2004 TB_{295}	15.6	X	121.00272	268.67817	34.69115	10.12956	0.0409886	0.18061753	3.0995320	21	12 30.7	20.3
323598 2004 TO_{296}	15.9	X	329.75022	241.44899	224.80316	12.55520	0.1244936	0.18061728	3.0995348	21	—	—
323599 2004 TD_{302}	16.2	X	131.10206	332.53524	22.44190	11.73042	0.1242835	0.19612705	2.9338937	21	1 6.3	20.6
323600 2004 TB_{327}	15.5	X	62.53566	101.24694	249.07250	9.51815	0.1363735	0.18157813	3.0885907	21	12 31.7	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323601 2004 TM_{327}	15.8	X	295.05046	83.28874	339.76541	24.74088	0.2169575	0.17033312	3.2230718	21	9 6.8	19.8
323602 2004 TA_{328}	15.1	X	177.47399	218.21196	73.58847	12.64248	0.0811590	0.19335023	2.9619172	21	—	—
323603 2004 TK_{331}	16.0	X	86.82991	336.33764	30.79624	9.33221	0.0526945	0.18690834	3.0295881	21	—	—
323604 2004 TX_{332}	15.9	X	324.98002	55.83643	39.19947	9.92836	0.0694369	0.17919347	3.1159317	21	12 21.1	20.1
323605 2004 TL_{344}	15.6	X	96.76100	118.18092	220.54592	10.45031	0.1293203	0.18536004	3.0464354	21	—	—
323606 2004 TU_{344}	15.9	X	281.40687	74.78262	25.83175	13.42462	0.2587967	0.17219398	3.1998091	21	10 3.6	20.1
323607 2004 TT_{346}	15.7	X	100.80333	106.46134	234.76554	9.26460	0.1186663	0.18655322	3.0334316	21	—	—
323608 2004 TU_{355}	15.4	X	330.84304	320.52317	124.55636	12.12429	0.2095934	0.17960978	3.1111150	21	12 19.3	18.7
323609 2004 TA_{356}	15.5	X	96.54187	270.06410	76.98900	11.77221	0.1109539	0.18748806	3.0233399	21	—	—
323610 2004 TR_{356}	15.6	X	323.52918	14.73894	61.65109	17.59827	0.1564126	0.17745411	3.1362596	21	11 23.1	18.9
323611 2004 TD_{368}	15.6	X	127.20691	309.61417	19.47199	12.75762	0.1248909	0.18956800	3.0011845	21	—	—
323612 2004 TK_{369}	15.8	X	90.33856	178.23957	214.94833	8.93993	0.0658511	0.19073414	2.9889393	21	—	—
323613 2004 UA_{6}	15.5	X	1.40101	181.75271	220.16299	10.61168	0.1673058	0.17716474	3.1396738	21	12 16.0	19.3
323614 2004 VT_{7}	15.3	X	326.36769	20.36721	59.76973	13.02595	0.1085467	0.17675776	3.1444912	21	12 3.1	19.0
323615 2004 VL_{13}	15.3	X	338.17367	297.72477	100.47757	14.84689	0.2858705	0.17264599	3.1942216	21	11 4.6	18.4
323616 2004 VO_{19}	15.4	X	19.61502	166.56871	237.48225	12.10144	0.1199204	0.17957324	3.1115370	21	—	—
323617 2004 VD_{27}	15.7	X	107.52997	109.99343	267.07710	6.42969	0.0868377	0.19047925	2.9916052	21	—	—
323618 2004 VX_{29}	15.9	X	306.35412	25.97074	62.33482	10.07407	0.0479060	0.17502520	3.1652086	21	11 18.5	20.1
323619 2004 VV_{35}	15.5	X	314.22496	5.14428	64.98822	6.44068	0.0526220	0.17146615	3.2088577	21	11 6.4	19.7
323620 2004 VH_{39}	15.8	X	49.44305	292.26378	65.60702	6.34873	0.1821492	0.17904125	3.1176975	21	—	—
323621 2004 VH_{41}	16.1	X	221.52423	175.71608	56.22130	7.79090	0.0276459	0.18467909	3.0539194	21	—	—
323622 2004 VG_{54}	15.7	X	292.95224	114.61579	333.21267	15.52348	0.2152814	0.17270715	3.1934675	21	10 1.3	20.0
323623 2004 VM_{54}	15.4	X	351.48712	115.75270	301.84321	11.44358	0.1257171	0.17791801	3.1308057	21	12 16.7	19.3
323624 2004 VY_{54}	15.5	X	132.67752	204.37383	156.86502	11.15687	0.1020843	0.19275837	2.9679772	21	1 11.1	19.9
323625 2004 VC_{57}	15.3	X	296.32714	321.36130	112.82598	15.75123	0.2423040	0.17090430	3.2158866	21	9 28.8	19.5
323626 2004 VM_{72}	15.7	X	78.76314	276.96371	70.86563	6.63317	0.1753902	0.18181069	3.0859563	21	—	—
323627 2004 VS_{74}	15.7	X	339.14011	312.94434	100.72611	6.32635	0.1562998	0.17444048	3.1722777	21	11 22.2	19.3
323628 2004 VX_{79}	16.9	X	325.22613	296.32934	153.95760	1.24659	0.1596442	0.17863705	3.1223987	21	12 14.4	20.3
323629 2004 VW_{80}	15.2	X	290.78779	105.45533	45.44476	11.59112	0.0517564	0.18271345	3.0757831	21	—	—
323630 2004 VR_{91}	15.8	X	351.05532	40.86531	18.70425	17.50384	0.2199928	0.17735788	3.1373939	21	12 25.5	19.5
323631 2004 VC_{94}	15.7	X	351.80006	228.10377	188.08935	14.16011	0.2383230	0.17729220	3.1381688	21	12 24.1	19.2
323632 2004 WH_{4}	15.6	X	149.00576	108.17721	225.57760	11.04550	0.1584279	0.19121165	2.9839610	21	1 1.9	20.3
323633 2004 XV	15.8	X	21.87242	48.60826	11.46301	11.12715	0.1292956	0.18309548	3.0715031	21	—	—
323634 2004 XW_{6}	15.1	X	92.73729	322.59892	26.97188	7.56820	0.3031972	0.18430187	3.0580850	21	—	—
323635 2004 XZ_{7}	15.4	X	57.66819	308.24496	91.86868	12.59303	0.1364070	0.18313583	3.0710520	21	—	—
323636 2004 XU_{21}	15.2	X	58.18455	310.59298	70.59129	9.55841	0.1361921	0.18052559	3.1005843	21	—	—
323637 2004 XE_{40}	15.3	X	321.33583	7.39973	84.65471	10.29160	0.1801883	0.17539639	3.1607412	21	12 8.1	18.7
323638 2004 XT_{41}	17.4	X	18.25435	356.54836	94.40535	7.05847	0.0948154	0.29893645	2.2152197	21	—	—
323639 2004 XE_{42}	15.4	X	304.66234	326.27372	177.10867	18.36726	0.1844758	0.18019942	3.1043245	21	—	—
323640 2004 XC_{79}	15.6	X	330.59660	327.56795	97.55153	7.94417	0.1401493	0.17219013	3.1998569	21	11 21.8	19.5
323641 2004 XP_{110}	15.2	X	254.43075	69.36719	73.89117	15.12735	0.0909662	0.16933341	3.2357449	21	11 14.6	19.8
323642 2004 XJ_{113}	15.8	X	175.00919	332.68981	267.93950	7.92706	0.0502416	0.17481052	3.1677994	21	12 13.9	20.4
323643 2004 XQ_{130}	15.9	X	307.39323	267.06637	191.88157	9.15870	0.0546770	0.17457861	3.1706042	21	12 2.8	20.2
323644 2004 XA_{157}	15.5	X	0.65951	115.49051	294.72357	7.89878	0.0718628	0.17350128	3.1837156	21	12 15.7	19.7
323645 2004 YB_{2}	17.4	X	88.82058	337.94282	52.48447	5.53575	0.1670811	0.30555637	2.1831077	21	—	—
323646 2004 YB_{17}	17.2	X	255.07415	166.60112	102.70349	5.40452	0.1294806	0.30610582	2.1804945	21	1 5.1	20.4
323647 2004 YJ_{23}	17.7	X	292.60434	44.76295	112.59423	5.35665	0.2075741	0.29176549	2.2513695	21	—	—
323648 2005 AP_{3}	17.5	X	290.14150	262.20356	276.50163	5.98059	0.0674664	0.29782036	2.2207506	21	—	—
323649 2005 AK_{48}	17.1	X	176.32671	227.08433	112.16523	4.53656	0.2103516	0.30775294	2.1727074	21	1 22.1	20.3
323650 2005 BC_{17}	17.2	X	140.85211	25.78737	292.29819	6.17960	0.1262341	0.29603088	2.2296911	21	—	—
323651 2005 BR_{20}	18.2	X	294.41946	13.09610	112.79869	3.18801	0.1400982	0.28868272	2.2673689	21	—	—
323652 2005 BX_{28}	17.2	X	272.51880	217.11185	337.39565	7.47640	0.1162905	0.29406861	2.2395990	21	—	—
323653 2005 CM_{22}	16.2	X	135.61391	210.45896	325.43190	24.18273	0.2739461	0.26657258	2.3910706	21	8 28.3	20.4
323654 2005 CH_{30}	18.3	X	315.56474	43.73226	97.98812	2.62181	0.1738394	0.29285683	2.2457728	21	—	—
323655 2005 CF_{33}	15.6	X	276.40462	340.62550	121.39571	10.55431	0.1418103	0.16288953	3.3205289	21	10 16.9	20.3
323656 2005 CD_{60}	17.7	X	350.27371	11.49344	92.73421	3.44415	0.1053948	0.29401914	2.2398502	21	—	—
323657 2005 CS_{69}	18.0	X	274.14836	6.10763	132.11674	5.43987	0.1037401	0.28552821	2.2840382	21	12 26.2	20.2
323658 2005 EY_{5}	17.1	X	150.02876	127.52886	137.47739	3.05371	0.1526732	0.27934602	2.3176138	21	12 31.8	20.8
323659 2005 EW_{7}	17.1	X	310.60956	101.80724	358.41534	24.41011	0.1486727	0.28330085	2.2959943	21	—	—
323660 2005 EE_{8}	17.8	X	205.42924	68.20637	166.92591	2.30436	0.1718588	0.28277190	2.2988566	21	—	—
323661 2005 EA_{20}	17.6	X	199.94894	279.53384	346.32842	6.88408	0.1013374	0.29055393	2.2576236	21	—	—
323662 2005 EX_{24}	17.4	X	307.06744	53.58422	63.34066	4.01807	0.1670658	0.28648838	2.2789321	21	—	—
323663 2005 EQ_{38}	16.8	X	238.94528	357.36252	169.69452	25.51751	0.1836156	0.28134266	2.3066356	21	12 2.1	20.3
323664 2005 EF_{44}	17.7	X	210.85283	249.61647	346.80840	2.41397	0.1677680	0.28504566	2.2866153	21	—	—
323665 2005 EZ_{47}	17.4	X	345.17784	352.53655	144.08308	3.46086	0.0625465	0.29529372	2.2334003	21	—	—
323666 2005 EM_{82}	17.7	X	222.25048	281.61266	289.73613	2.01268	0.1189665	0.28422204	2.2910305	21	—	—
323667 2005 ES_{82}	17.7	X	208.16375	80.39276	191.36475	5.38631	0.1389267	0.29029991	2.2589404	21	—	—
323668 2005 EC_{87}	18.0	X	300.72486	82.44171	7.41697	1.65058	0.2203762	0.28193371	2.3034107	21	11 19.8	19.5
323669 2005 ER_{92}	17.4	X	320.68217	279.06338	172.06039	10.58457	0.0979068	0.28410560	2.2916565	21	—	—
323670 2005 EM_{117}	18.1	X	224.72176	126.62313	68.20085	1.12200	0.0712685	0.28150193	2.3057655	21	—	—
323671 2005 EW_{137}	17.7	X	285.45050	111.23969	21.05007	7.37193	0.1295741	0.28198711	2.3031199	21	—	—
323672 2005 EG_{140}	17.6	X	81.00575	57.48481	2.94164	4.64533	0.0801869	0.30295303	2.1955964	21	—	—
323673 2005 EQ_{144}	17.7	X	330.50009	228.44460	167.13397	7.62571	0.1146835	0.27476026	2.3433299	21	11 5.4	19.9
323674 2005 EB_{159}	18.0	X	126.78131	116.11526	177.90755	6.93925	0.1302595	0.28004593	2.3137506	21	—	—
323675 2005 EP_{164}	17.6	X	323.55655	80.63685	17.05186	8.63612	0.2175710	0.28866208	2.2674770	21	—	—
323676 2005 EA_{185}	16.8	X	128.23552	323.67545	350.67380	6.61910	0.1645219	0.28105702	2.3081981	21	—	—
323677 2005 EN_{195}	17.6	X	127.70339	101.50931	198.13538	1.75985	0.2235078	0.27897105	2.3196900	21	—	—
323678 2005 EN_{221}	17.5	X	188.87334	152.26172	40.41793	2.83364	0.1469976	0.27481193	2.3430362	21	11 8.5	21.0
323679 2005 ED_{223}	17.3	X	219.06282	137.08753	75.31561	10.11900	0.1673313	0.28239519	2.3009006	21	—	—
323680 2005 EH_{236}	18.5	X	277.50856	103.99510	9.73273	4.41582	0.1660213	0.28033691	2.3121492	21	11 14.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323681 2005 EB_{270}	17.2	X	224.55304	72.62615	171.02699	20.57718	0.2383946	0.28607468	2.2811286	21	—	—
323682 2005 EJ_{324}	17.4	X	199.86698	211.26515	45.00446	6.68760	0.2071198	0.28383408	2.2931178	21	—	—
323683 2005 EZ_{330}	17.0	X	133.35931	242.43134	326.42882	5.96321	0.0726578	0.26798469	2.3826636	21	9 29.9	20.4
323684 2005 FU_{7}	16.8	X	287.89195	64.33465	22.93277	25.96240	0.2660889	0.27901462	2.3194485	21	10 11.0	18.8
323685 2005 GC_{6}	14.7	X	58.12587	105.29607	65.47860	7.22865	0.1101763	0.12620689	3.9362320	21	5 14.5	20.0
323686 2005 GW_{20}	16.8	X	287.43894	264.70699	215.22606	20.35688	0.2949708	0.28567776	2.2832410	21	11 26.8	18.4
323687 2005 GX_{72}	17.4	X	272.23459	122.95726	29.25527	24.49869	0.1541353	0.28332015	2.2958900	21	—	—
323688 2005 GB_{77}	18.0	X	271.96229	257.07953	259.60309	2.36854	0.1289346	0.28320673	2.2965029	21	—	—
323689 2005 GL_{79}	17.8	X	180.46325	73.11475	188.81674	5.38786	0.1526807	0.28076935	2.3097745	21	—	—
323690 2005 GG_{80}	18.1	X	253.36448	43.60705	100.69024	4.09140	0.1405699	0.27719807	2.3295708	21	11 24.4	20.6
323691 2005 GH_{84}	18.1	X	224.76674	86.19276	180.80839	4.83034	0.2528339	0.29036605	2.2585974	21	—	—
323692 2005 GU_{84}	17.5	X	150.47485	10.55039	224.16935	4.38562	0.1273755	0.27242567	2.3566985	21	11 24.6	20.9
323693 2005 GN_{86}	17.5	X	203.31972	214.39479	8.32399	1.68855	0.1878847	0.27912848	2.3188177	21	12 28.3	20.8
323694 2005 GU_{88}	17.8	X	256.94617	328.82838	199.53459	1.78551	0.1707026	0.28193170	2.3034216	21	12 29.4	20.2
323695 2005 GY_{93}	16.3	X	150.97613	52.08320	210.85401	21.95932	0.1527159	0.27582387	2.3373019	21	12 26.7	20.4
323696 2005 GS_{98}	17.8	X	99.59816	75.34638	222.08492	3.27842	0.2358549	0.26934439	2.3746381	21	12 27.8	21.8
323697 2005 GJ_{108}	17.4	X	136.39697	130.92909	176.73573	2.98402	0.1118023	0.28168196	2.3047829	21	—	—
323698 2005 GQ_{112}	17.8	X	219.30192	287.76122	291.85945	2.62502	0.1341207	0.28176343	2.3043386	21	—	—
323699 2005 GP_{116}	17.8	X	150.07879	49.99624	211.24053	6.38297	0.0603343	0.27656776	2.3331089	21	12 29.7	21.1
323700 2005 GR_{119}	16.9	X	200.17120	181.92050	63.94827	23.97890	0.2063766	0.28147063	2.3059364	21	—	—
323701 2005 GN_{127}	17.6	X	125.01720	272.73506	23.03685	8.52223	0.0805629	0.27706369	2.3303240	21	—	—
323702 2005 GS_{133}	16.9	X	229.06562	187.33082	63.07099	5.20991	0.0881719	0.28786179	2.2716776	21	—	—
323703 2005 GF_{140}	17.5	X	200.85613	323.50760	259.18166	2.70294	0.1780407	0.27862506	2.3216100	21	12 26.6	20.7
323704 2005 GK_{153}	17.1	X	250.29115	323.26733	200.53775	22.89129	0.2176832	0.28000893	2.3139544	21	12 4.2	20.2
323705 2005 GY_{160}	17.8	X	172.96121	205.21753	41.86065	6.47060	0.1991442	0.27589858	2.3368800	21	12 27.8	21.6
323706 2005 GK_{161}	17.0	X	246.96489	176.29849	73.14780	7.53836	0.1608457	0.29026670	2.2591127	21	—	—
323707 2005 GW_{167}	17.5	X	178.54623	198.42231	46.84064	2.12171	0.1682258	0.27629033	2.3346705	21	—	—
323708 2005 GD_{178}	17.6	X	204.78303	339.64802	193.32627	6.66500	0.1573510	0.27350660	2.3504851	21	10 30.7	21.0
323709 2005 HZ_{5}	17.5	X	226.78696	25.49293	132.47557	6.19386	0.2021120	0.27326005	2.3518987	21	10 31.5	20.9
323710 2005 HK_{7}	17.3	X	295.48842	66.14644	39.08298	2.85716	0.1531161	0.28077419	2.3097480	21	12 9.5	19.3
323711 2005 JS	17.4	X	217.10650	57.39459	190.13680	8.27120	0.1889083	0.28295315	2.2978748	21	—	—
323712 2005 JR_{2}	17.1	X	177.39740	44.28557	214.30333	3.85856	0.2394279	0.27739802	2.3284512	21	—	—
323713 2005 JK_{14}	17.6	X	275.04729	278.26703	222.75248	5.27646	0.2027419	0.28109402	2.3079956	21	12 16.7	19.5
323714 2005 JC_{17}	17.2	X	196.68877	209.23399	46.90673	10.24042	0.1847739	0.28041970	2.3116941	21	—	—
323715 2005 JH_{32}	17.6	X	101.98697	43.72694	223.87720	2.40715	0.1568058	0.26641120	2.3920361	21	11 18.9	21.2
323716 2005 JW_{33}	17.9	X	97.06730	88.13270	208.73974	0.84964	0.1897964	0.26811439	2.3818951	21	12 22.6	21.5
323717 2005 JG_{34}	16.9	X	203.23226	357.87579	107.04102	8.97282	0.0683021	0.25690589	2.4506804	21	8 5.9	20.2
323718 2005 JC_{36}	17.1	X	92.04833	167.05312	94.01566	7.42785	0.0888830	0.26320829	2.4114023	21	10 27.4	20.5
323719 2005 JT_{40}	17.8	X	251.01345	43.54000	58.94398	5.93276	0.0576778	0.26607374	2.3940582	21	10 7.3	20.7
323720 2005 JG_{48}	18.1	X	179.15939	83.89255	132.23171	4.99198	0.1338729	0.27227992	2.3575395	21	11 30.2	21.7
323721 2005 JX_{51}	17.1	X	48.83558	141.76236	170.73202	2.39877	0.1913214	0.26356324	2.4092368	21	11 23.1	20.1
323722 2005 JH_{55}	17.2	X	105.48847	103.18781	203.52280	9.64891	0.2281838	0.27000955	2.3707366	21	—	—
323723 2005 JX_{57}	18.0	X	229.30279	232.10732	292.69212	0.95349	0.1249172	0.27442841	2.3452186	21	11 20.2	21.1
323724 2005 JC_{107}	16.7	X	45.51528	161.36766	137.96379	14.17148	0.2180581	0.25906041	2.4370738	21	11 9.5	20.1
323725 2005 JD_{120}	17.2	X	59.60135	202.37545	99.92451	5.82445	0.1152730	0.26373153	2.4082118	21	11 13.3	20.3
323726 2005 JK_{128}	15.5	X	309.83504	129.96230	228.91915	11.63464	0.1661689	0.24559861	2.5253337	21	7 15.5	18.5
323727 2005 JJ_{153}	17.8	X	207.69312	140.75564	32.21656	3.02661	0.1355755	0.27464451	2.3439882	21	11 4.0	20.9
323728 2005 JE_{168}	17.4	X	75.73263	247.78414	63.67716	3.33338	0.1354215	0.26736677	2.3863333	21	12 15.2	20.7
323729 2005 JQ_{183}	17.4	X	174.94970	79.46616	180.04578	4.60299	0.2087223	0.27745217	2.3281483	21	—	—
323730 2005 LM_{4}	17.2	X	173.06248	84.47426	115.87356	6.67298	0.0577547	0.26866279	2.3786527	21	11 9.2	20.5
323731 2005 LT_{16}	17.5	X	26.39460	169.48480	163.13346	1.33065	0.1979780	0.26074514	2.4265648	21	11 19.8	20.2
323732 2005 LC_{17}	16.6	X	205.57796	39.70351	67.89935	11.81214	0.0820139	0.25763610	2.4460476	21	8 15.0	20.3
323733 2005 LH_{18}	17.6	X	158.72638	359.11890	174.20613	4.43176	0.1362012	0.26153749	2.4216614	21	9 14.1	21.1
323734 2005 LS_{23}	17.9	X	136.31388	39.68338	225.52549	1.52911	0.1933805	0.27109631	2.3643965	21	12 18.2	21.8
323735 2005 LP_{26}	17.3	X	123.62330	153.65283	123.25139	7.71648	0.1600721	0.26977165	2.3721302	21	12 21.3	21.2
323736 2005 LH_{30}	17.3	X	88.89854	160.88759	114.30642	3.18331	0.1925429	0.25995975	2.4314498	21	11 18.5	21.0
323737 2005 MZ_{11}	17.3	X	29.37045	192.55897	134.29145	3.13407	0.2144716	0.25933794	2.4353348	21	11 19.4	20.1
323738 2005 MW_{17}	17.0	X	336.07685	49.89242	285.64920	3.45234	0.1383478	0.24695476	2.5160800	21	8 6.4	19.3
323739 2005 MK_{22}	17.2	X	119.09410	349.08227	292.19259	2.67505	0.1858376	0.26470520	2.4023028	21	12 22.1	20.9
323740 2005 MH_{23}	16.7	X	41.91429	183.50557	128.80290	8.95591	0.2254624	0.26029536	2.4293594	21	11 20.9	19.9
323741 2005 MK_{30}	16.2	X	141.53398	352.50125	140.70624	15.24768	0.0426506	0.24119093	2.5560072	21	6 28.4	19.9
323742 2005 ME_{42}	17.1	X	58.35267	92.74296	184.90501	5.82606	0.2342128	0.25390932	2.4699242	21	10 25.1	20.3
323743 2005 MX_{44}	16.7	X	249.59352	221.92623	155.50837	12.19121	0.1304432	0.23800848	2.5787412	21	5 29.9	20.7
323744 2005 MQ_{48}	17.1	X	330.39171	114.15467	209.32051	5.22150	0.1042435	0.24380688	2.5376910	21	7 10.4	19.9
323745 2005 MW_{48}	16.3	X	325.14269	207.17940	115.35988	15.98334	0.1839626	0.24282000	2.5445622	21	6 20.9	19.0
323746 2005 MY_{53}	16.2	X	189.31587	62.98751	316.79639	11.88954	0.1865133	0.22419769	2.6835846	21	3 26.5	21.0
323747 2005 MD_{54}	17.5	X	149.24678	324.42891	278.23848	0.84035	0.1543925	0.26454950	2.4032452	21	12 1.4	21.4
323748 2005 NC_{27}	17.2	X	126.91630	75.37664	146.44395	4.80785	0.0614602	0.25678060	2.4514775	21	10 12.1	20.6
323749 2005 NV_{32}	17.2	X	90.26773	137.96542	169.17409	6.52638	0.1203206	0.26354446	2.4093513	21	12 23.2	20.8
323750 2005 NB_{75}	16.4	X	74.68184	181.46186	127.29614	6.25446	0.0745295	0.26171998	2.4205355	21	12 3.8	19.6
323751 2005 NR_{122}	17.0	X	112.01200	273.58305	12.07403	6.61987	0.1933458	0.26353294	2.4094215	21	12 21.3	21.1
323752 2005 NB_{123}	17.0	X	114.43122	271.60428	21.54988	9.57272	0.2270174	0.26555238	2.3971907	21	—	—
323753 2005 OL	16.5	X	308.00023	243.84102	113.57000	4.40712	0.1400422	0.24482296	2.5306648	21	7 17.7	19.1
323754 2005 OV_{3}	16.4	X	343.09185	247.80898	84.36013	11.23903	0.1615708	0.24715111	2.5147472	21	8 21.0	18.9
323755 2005 OC_{6}	16.1	X	225.28294	320.29108	135.59057	15.59502	0.0739078	0.24466753	2.5317364	21	8 19.2	19.5
323756 2005 OG_{7}	16.4	X	228.28217	261.22940	126.95615	14.43476	0.1992518	0.23219163	2.6216316	21	5 18.8	20.9
323757 2005 OU_{10}	16.5	X	321.90072	295.97300	30.22245	7.16669	0.1082101	0.24159304	2.5531702	21	6 30.4	19.5
323758 2005 OR_{18}	16.9	X	73.76172	336.38726	309.08023	4.49157	0.1800855	0.25474901	2.4644937	21	11 11.8	20.6
323759 2005 OA_{21}	16.8	X	315.00796	331.26356	31.39882	1.36979	0.0256695	0.24585086	2.5236060	21	8 21.2	19.9
323760 2005 OP_{22}	17.1	X	112.32485	275.10408	6.63679	2.33745	0.2025826	0.26367529	2.4085542	21	12 17.3	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323761 2005 OM_{26}	17.1	X	81.71587	40.62348	259.93647	4.29591	0.1783370	0.25948865	2.4343918	21	12 10.7	20.8
323762 2005 OY_{28}	16.2	X	304.09600	206.43515	84.55553	13.02124	0.1285726	0.23324911	2.6137019	21	4 17.3	19.8
323763 2005 PD_{4}	16.2	X	282.03920	268.93110	66.92114	12.31651	0.2138274	0.23730426	2.5838405	21	5 2.2	19.9
323764 2005 PB_{7}	16.6	X	190.72995	49.22544	320.50683	12.85771	0.2097699	0.22404779	2.6847814	21	3 16.8	21.4
323765 2005 PM_{18}	17.0	X	37.62094	262.79229	46.92626	8.06238	0.2537385	0.25357343	2.4721048	21	11 11.9	20.1
323766 2005 QK_{4}	16.8	X	318.01989	330.24795	347.17505	11.70725	0.1984174	0.23846141	2.5754749	21	5 23.1	20.0
323767 2005 QK_{14}	16.7	X	277.68278	341.14413	330.40901	11.29177	0.1826427	0.23151122	2.6267658	21	3 24.1	20.8
323768 2005 QU_{19}	16.4	X	140.97262	156.28950	342.12879	8.84942	0.0518347	0.23835929	2.5762104	21	7 6.6	20.1
323769 2005 QV_{21}	17.7	X	354.87484	222.27467	86.75732	0.43289	0.1521942	0.24422042	2.5348255	21	8 4.9	19.7
323770 2005 QJ_{25}	17.0	X	244.41520	281.54410	69.25812	2.61319	0.1095349	0.22834419	2.6509980	21	4 20.4	20.9
323771 2005 QV_{35}	17.1	X	316.60490	230.34980	91.86036	3.38977	0.2189954	0.23855513	2.5748002	21	5 28.4	19.7
323772 2005 QJ_{37}	16.5	X	137.90859	71.16694	326.36721	4.68715	0.0883990	0.21670800	2.7450658	21	2 24.7	20.5
323773 2005 QW_{38}	17.2	X	309.49328	177.60382	157.75538	8.12944	0.2076830	0.23988343	2.5652865	21	6 7.3	20.2
323774 2005 QJ_{39}	16.7	X	98.14912	297.48313	335.71415	10.27630	0.2193578	0.25962053	2.4335673	21	11 22.8	20.8
323775 2005 QF_{48}	14.5	X	15.98608	187.79428	124.18201	8.88032	0.2790518	0.12324496	3.9990478	21	9 23.6	18.9
323776 2005 QW_{48}	17.2	X	295.45397	235.25976	95.28799	3.92915	0.1126255	0.23543036	2.5975330	21	5 25.4	20.6
323777 2005 QF_{51}	16.5	X	325.11509	170.51881	143.19970	14.54446	0.1826028	0.23813779	2.5778076	21	6 9.1	19.5
323778 2005 QY_{55}	16.3	X	220.20304	190.95080	165.55526	7.24417	0.2239339	0.22534490	2.6744689	21	3 30.4	20.8
323779 2005 QJ_{56}	16.5	X	275.63587	327.75183	4.55479	13.51108	0.1984780	0.23171451	2.6252293	21	4 16.2	20.4
323780 2005 QK_{60}	16.0	X	259.32299	22.31679	333.44519	14.01984	0.1621747	0.23268212	2.6179461	21	4 29.9	20.2
323781 2005 QH_{63}	16.7	X	266.56290	236.60081	103.37666	3.30839	0.1708614	0.23243484	2.6198026	21	4 24.4	20.6
323782 2005 QR_{79}	16.9	X	347.73200	10.92625	354.87680	20.47899	0.1026336	0.37426389	1.9070003	21	10 30.7	18.8
323783 2005 QS_{90}	17.2	X	242.92826	340.05224	19.05884	2.63082	0.1409667	0.23004020	2.6379520	21	4 25.4	21.3
323784 2005 QZ_{90}	16.7	X	243.80057	188.21729	164.94592	4.40977	0.1844582	0.22908424	2.6452856	21	4 17.1	20.8
323785 2005 QU_{91}	16.2	X	155.28042	60.54582	322.67941	11.37282	0.1741689	0.21824789	2.7321383	21	3 3.7	20.6
323786 2005 QF_{103}	16.5	X	240.20938	4.26081	329.28180	12.47356	0.0747563	0.22629243	2.6669981	21	3 22.2	20.6
323787 2005 QL_{108}	17.1	X	113.79296	105.17253	296.92158	2.89110	0.2101491	0.21274107	2.7790850	21	2 18.9	21.0
323788 2005 QY_{112}	16.5	X	248.03621	312.90501	17.85293	10.44304	0.2481913	0.22794736	2.6540739	21	3 21.2	21.0
323789 2005 QZ_{112}	16.2	X	346.78551	181.22851	140.21374	16.41193	0.1838130	0.24353892	2.5395522	21	8 5.5	18.2
323790 2005 QK_{121}	16.8	X	162.28084	67.67066	329.54237	5.30971	0.0415992	0.22353814	2.6888607	21	3 17.6	20.5
323791 2005 QR_{130}	17.0	X	34.15689	219.24110	31.93331	5.08109	0.1365509	0.24088613	2.5581629	21	7 25.9	19.8
323792 2005 QD_{136}	17.1	X	167.43377	350.87948	51.79415	1.64026	0.0513590	0.22322140	2.6914036	21	4 2.6	20.9
323793 2005 QY_{140}	17.1	X	176.65091	239.97296	165.93264	9.64177	0.0856199	0.22639870	2.6661634	21	4 20.8	21.1
323794 2005 QV_{148}	15.9	X	155.91034	35.36307	350.31112	12.22222	0.1839385	0.21807571	2.7335762	21	3 10.7	20.2
323795 2005 QH_{149}	17.2	X	229.62316	206.17696	9.87444	23.20002	0.0513497	0.39233765	1.8479749	21	—	—
323796 2005 QV_{150}	16.4	X	50.63587	58.89347	176.34460	14.32575	0.0858660	0.23767446	2.5811567	21	7 18.8	19.8
323797 2005 QB_{151}	16.4	X	92.29701	270.41990	167.67865	9.42840	0.1082864	0.21433749	2.7652684	21	2 21.5	20.0
323798 2005 QH_{151}	17.2	X	300.06163	320.74339	13.86521	4.29701	0.1905160	0.23631645	2.5910358	21	5 23.2	20.5
323799 2005 QT_{151}	16.3	X	179.92890	2.91866	23.98429	14.45878	0.2358565	0.22047204	2.7137325	21	4 5.3	21.1
323800 2005 QK_{155}	17.0	X	83.41976	260.85500	44.13474	4.15322	0.2151803	0.26010387	2.4305516	21	12 20.8	20.9
323801 2005 QT_{156}	16.0	X	196.92342	110.37182	292.12608	11.37013	0.0944862	0.22874481	2.6479019	21	5 1.7	20.3
323802 2005 QA_{157}	16.0	X	136.97845	218.34472	220.82782	8.69354	0.1848591	0.21996140	2.7179308	21	4 26.9	20.1
323803 2005 QC_{161}	16.2	X	246.62382	183.35869	161.22483	14.74271	0.1389816	0.22814620	2.6525316	21	4 15.1	20.4
323804 2005 QU_{161}	16.4	X	129.47311	11.98456	0.56424	13.00723	0.1935740	0.21286689	2.7779897	21	2 3.3	20.6
323805 2005 QT_{165}	15.5	X	149.62416	28.31388	17.31554	26.25921	0.1406277	0.21868898	2.7284633	21	3 29.5	19.7
323806 2005 QP_{173}	16.5	X	252.16761	156.00956	191.82589	12.37066	0.1884987	0.22864659	2.6486601	21	4 17.9	20.6
323807 2005 QD_{181}	16.4	X	146.52832	79.73810	338.03450	8.46607	0.1044049	0.21935305	2.7229537	21	3 30.7	20.5
323808 2005 QX_{190}	16.9	X	155.93444	190.38153	216.82402	1.56428	0.0728710	0.22190646	2.7020254	21	3 27.0	20.6
323809 2005 RA_{9}	17.3	X	344.04747	348.84860	3.62490	21.50120	0.0658851	0.36875511	1.9259456	21	10 3.8	18.5
323810 2005 RU_{13}	17.4	X	359.33310	347.82407	306.42355	2.38417	0.1144363	0.24196063	2.5505837	21	7 21.3	20.0
323811 2005 RL_{24}	17.2	X	22.11452	181.97188	201.91954	21.93926	0.0931511	0.37956819	1.8891923	21	—	—
323812 2005 RE_{27}	17.4	X	312.06976	73.69251	333.66866	19.41567	0.1234379	0.37221683	1.9139858	21	10 24.5	19.2
323813 2005 RF_{31}	16.2	X	127.51791	139.99990	156.99780	9.86966	0.2531683	0.26474214	2.4020793	21	—	—
323814 2005 SW	16.9	X	305.18757	329.04821	8.47456	18.35575	0.2302578	0.23764149	2.5813955	21	5 22.7	20.5
323815 2005 SC_{2}	16.0	X	269.12915	358.79569	15.44896	18.73133	0.0958445	0.23359030	2.6111562	21	6 18.9	20.0
323816 2005 SG_{6}	16.8	X	65.35466	201.91235	273.28610	3.24966	0.0225626	0.21430103	2.7655820	21	2 21.0	20.5
323817 2005 SN_{11}	16.6	X	168.35909	3.44143	21.81718	6.22251	0.0682668	0.21850776	2.7299716	21	3 15.7	20.6
323818 2005 SJ_{16}	16.9	X	62.35153	87.18411	350.69009	4.17654	0.0917045	0.20861063	2.8156484	21	1 9.3	20.3
323819 2005 ST_{17}	16.9	X	108.57082	42.23290	15.87070	3.06727	0.0825737	0.21358417	2.7717668	21	2 16.1	20.5
323820 2005 SG_{22}	16.9	X	241.75343	218.49245	124.47651	4.97137	0.1097289	0.22614169	2.6681831	21	4 9.3	20.9
323821 2005 SU_{30}	16.5	X	315.98752	93.46872	200.12852	12.93956	0.1617668	0.23227203	2.6210267	21	4 27.2	19.6
323822 2005 SM_{31}	16.4	X	105.58047	13.45985	31.21763	11.44354	0.1473406	0.20943921	2.8082174	21	2 9.5	20.3
323823 2005 SR_{33}	17.3	X	7.17484	160.20908	152.61482	5.44594	0.2810591	0.24447071	2.5330951	21	9 24.9	18.9
323824 2005 SA_{38}	16.6	X	221.51867	345.60167	17.61266	7.06564	0.1958279	0.22575406	2.6712364	21	4 8.0	20.9
323825 2005 SJ_{38}	16.7	X	27.44044	32.44086	195.51947	4.39717	0.0144015	0.23027363	2.6361690	21	5 29.5	20.1
323826 2005 SV_{38}	16.9	X	201.87381	135.85117	193.35231	6.02307	0.0684949	0.21606048	2.7505476	21	2 7.9	21.0
323827 2005 SE_{42}	17.0	X	177.55913	161.92031	241.09008	4.16992	0.0185444	0.22288378	2.6941209	21	4 11.5	20.7
323828 2005 SZ_{42}	18.2	X	278.05604	269.66101	197.90679	20.88782	0.1066257	0.37497372	1.9045929	21	12 12.6	20.1
323829 2005 SE_{44}	16.8	X	191.16443	203.73580	217.43073	5.72377	0.0951079	0.22716340	2.6601767	21	5 24.1	20.9
323830 2005 SW_{50}	16.8	X	158.80347	235.67458	199.28785	3.31701	0.0465681	0.22397572	2.6853574	21	5 3.6	20.6
323831 2005 SL_{51}	16.5	X	178.82939	162.67078	206.75681	7.92677	0.1087451	0.21664335	2.7456118	21	3 5.9	20.9
323832 2005 SN_{51}	16.4	X	327.43060	102.48095	203.01242	8.12090	0.0805737	0.23228293	2.6209447	21	6 12.9	19.7
323833 2005 SX_{51}	16.9	X	11.84430	95.77625	199.94838	7.96861	0.1573129	0.23948146	2.5681563	21	8 17.2	19.5
323834 2005 SB_{54}	16.8	X	192.37531	159.36112	197.03955	8.35041	0.0927691	0.21780336	2.7358546	21	3 3.3	21.1
323835 2005 SK_{58}	15.9	X	86.53563	192.37362	350.09036	10.13617	0.0281107	0.23200097	2.6230678	21	6 20.2	19.5
323836 2005 SU_{59}	16.6	X	265.84775	345.71387	16.92051	8.81900	0.2182017	0.23249636	2.6193405	21	5 13.7	20.7
323837 2005 ST_{62}	16.9	X	350.59047	72.42654	194.58416	9.67054	0.0514939	0.23040902	2.6351362	21	5 29.6	20.2
323838 2005 SF_{66}	16.2	X	147.69768	159.84990	212.88845	9.17309	0.1280788	0.21348268	2.7726451	21	2 7.4	20.5
323839 2005 SP_{66}	16.8	X	176.47265	52.58327	308.84540	2.29999	0.2061545	0.21743015	2.7389843	21	2 28.5	21.3
323840 2005 SK_{75}	16.7	X	66.51550	36.95373	18.59623	1.69723	0.0587933	0.20670766	2.8329028	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323841 2005 SZ_{75}	16.9	X	162.10352	259.52856	185.07621	2.75351	0.0855615	0.22762725	2.6565615	21	5 22.6	20.8
323842 2005 SV_{76}	17.6	X	85.85903	98.84709	176.52566	3.70534	0.1998702	0.25294984	2.4761661	21	11 15.7	21.3
323843 2005 SH_{81}	17.0	X	281.83384	143.24536	183.27722	14.76683	0.1130459	0.23113925	2.6295832	21	5 3.7	20.7
323844 2005 SO_{81}	16.4	X	257.99517	287.65484	10.16301	13.19519	0.0888224	0.22215616	2.7000002	21	3 5.4	20.4
323845 2005 SJ_{85}	16.1	X	302.86747	273.18185	12.27082	17.44570	0.1770343	0.22843701	2.6502799	21	3 27.2	19.5
323846 2005 SS_{86}	16.9	X	74.01443	164.98368	31.36161	2.02844	0.0572466	0.23256899	2.6187951	21	6 26.5	20.1
323847 2005 SX_{86}	16.7	X	161.53776	18.99317	18.56583	5.08145	0.1187532	0.21929138	2.7234642	21	3 26.2	20.9
323848 2005 SJ_{87}	16.9	X	199.00142	193.39491	168.79746	2.06272	0.0970408	0.22073496	2.7115772	21	3 19.0	20.9
323849 2005 SG_{90}	16.8	X	116.54272	193.17370	218.67140	2.72730	0.1850694	0.21147994	2.7901224	21	3 2.6	20.8
323850 2005 ST_{97}	17.1	X	293.92112	136.12342	181.59944	13.55724	0.1871953	0.23218249	2.6217005	21	4 26.1	20.7
323851 2005 SU_{102}	16.7	X	247.65678	141.85082	214.43831	9.83578	0.1986232	0.22856751	2.6492710	21	4 22.1	20.9
323852 2005 SZ_{102}	16.8	X	161.89707	69.40344	293.14602	3.39226	0.0829069	0.21350205	2.7724774	21	2 8.1	20.8
323853 2005 SO_{108}	16.9	X	116.13016	204.25648	203.74698	3.92790	0.0684932	0.21255991	2.7806637	21	2 8.6	20.7
323854 2005 SA_{110}	17.1	X	34.90977	268.53546	12.52847	3.04882	0.1407977	0.24195146	2.5506481	21	9 9.3	19.9
323855 2005 SP_{116}	17.5	X	311.30473	222.21540	204.30264	21.26885	0.1011869	0.37478101	1.9052457	21	12 11.9	19.3
323856 2005 SU_{117}	16.2	X	149.95691	339.02040	31.89794	9.55685	0.1621256	0.21421759	2.7663001	21	2 18.2	20.6
323857 2005 ST_{122}	16.7	X	165.15607	100.50406	291.44313	4.38129	0.1342197	0.21958636	2.7210247	21	3 21.0	21.0
323858 2005 SV_{122}	17.0	X	341.87123	321.77835	348.39928	11.76767	0.1901488	0.23982759	2.5656847	21	7 8.7	19.5
323859 2005 SG_{126}	16.8	X	257.94540	136.04108	186.68531	4.25357	0.1247468	0.22577121	2.6711012	21	3 28.4	20.6
323860 2005 SE_{127}	16.3	X	171.84888	253.29455	191.68873	21.66227	0.0477027	0.22927896	2.6437877	21	6 2.0	20.5
323861 2005 ST_{142}	16.4	X	48.79143	203.80019	39.33330	9.49307	0.1156585	0.23836247	2.5761875	21	8 7.4	19.6
323862 2005 SO_{143}	16.9	X	40.08454	117.55029	171.07255	8.03891	0.0753348	0.24401659	2.5362369	21	9 17.8	19.9
323863 2005 SG_{148}	17.2	X	347.73065	232.69823	60.12386	2.55209	0.1824576	0.23605898	2.5929195	21	6 21.8	19.5
323864 2005 SO_{151}	16.7	X	338.37447	98.98162	180.01719	4.09215	0.1825500	0.23244991	2.6196894	21	5 12.1	19.3
323865 2005 ST_{153}	17.0	X	312.44386	330.53997	328.63392	3.29375	0.1149980	0.23215165	2.6219326	21	5 4.5	20.4
323866 2005 SU_{155}	16.4	X	149.03199	117.84350	254.57239	11.88858	0.1708653	0.21441491	2.7646027	21	2 10.5	20.9
323867 2005 SN_{156}	17.2	X	74.74365	265.67958	187.67282	4.69912	0.0913642	0.21187879	2.7866199	21	2 13.9	20.8
323868 2005 SP_{159}	15.4	X	205.79095	302.00498	28.23667	15.92036	0.1953674	0.21604687	2.7506631	21	2 23.6	20.3
323869 2005 SM_{161}	16.9	X	77.48020	206.62536	347.42142	1.76083	0.1233754	0.23351529	2.6117153	21	7 9.1	20.2
323870 2005 SN_{162}	17.5	X	342.45023	312.23046	315.94277	1.12539	0.0407421	0.22944475	2.6425140	21	5 18.0	20.7
323871 2005 SL_{163}	16.7	X	182.09759	310.25494	80.94155	2.25262	0.1057740	0.22142281	2.7059585	21	4 7.7	20.7
323872 2005 SR_{165}	15.7	X	100.41146	70.42070	20.15663	24.89572	0.1867675	0.21684563	2.7439041	21	4 4.5	19.5
323873 2005 SY_{167}	16.0	X	220.41181	42.54899	311.85522	11.80369	0.1870408	0.22593380	2.6698195	21	3 22.0	20.7
323874 2005 SD_{169}	17.0	X	123.03060	112.17617	288.46665	3.55450	0.0721562	0.21356161	2.7719619	21	2 8.8	20.8
323875 2005 SK_{170}	16.4	X	143.78644	248.87569	208.39251	11.16281	0.0993989	0.22563417	2.6721826	21	5 20.2	20.3
323876 2005 SA_{172}	17.2	X	145.64581	110.94242	304.35370	2.83801	0.0975856	0.21964051	2.7205774	21	3 27.4	21.1
323877 2005 SH_{172}	17.1	X	223.78632	23.07475	341.82203	5.73416	0.0448233	0.22575984	2.6711909	21	4 17.0	20.9
323878 2005 SA_{183}	17.5	X	175.09199	54.11744	327.33275	1.86673	0.0888987	0.21834262	2.7313480	21	3 17.3	21.4
323879 2005 SA_{204}	16.8	X	119.09478	332.54907	187.64755	14.44127	0.0289469	0.23455905	2.6039617	21	7 2.5	20.7
323880 2005 SL_{206}	16.2	X	164.63785	240.55513	150.10868	9.22588	0.2806070	0.21839088	2.7309456	21	4 1.1	21.0
323881 2005 SN_{207}	16.3	X	170.89014	336.26806	47.30463	5.80452	0.1677092	0.21951374	2.7216247	21	3 22.9	20.7
323882 2005 SV_{220}	16.0	X	231.45260	19.37156	355.38684	13.22804	0.2103851	0.22678344	2.6631471	21	4 24.9	20.7
323883 2005 SG_{227}	15.9	X	45.04058	192.27642	28.45160	7.78037	0.0737773	0.23214873	2.6219546	21	6 19.0	19.1
323884 2005 SE_{238}	16.4	X	286.46016	286.14349	16.46051	6.93446	0.1151036	0.22462987	2.6801414	21	4 5.8	20.2
323885 2005 SL_{238}	17.0	X	205.00805	332.60600	13.80556	5.97114	0.0528865	0.21642999	2.7474160	21	3 7.6	20.9
323886 2005 SO_{242}	16.3	X	11.62613	28.62709	216.70063	11.47968	0.1448766	0.23151619	2.6267282	21	6 1.5	19.0
323887 2005 ST_{243}	16.6	X	192.95267	61.65280	305.27521	7.62133	0.0977063	0.22185734	2.7024242	21	3 14.9	20.9
323888 2005 SW_{245}	16.7	X	301.60241	243.81486	19.06090	13.19957	0.1450906	0.22180283	2.7028669	21	3 5.8	20.6
323889 2005 SH_{246}	16.7	X	191.55499	164.09732	216.09143	6.03877	0.0312291	0.22089092	2.7103006	21	3 30.9	20.5
323890 2005 SR_{246}	16.4	X	30.83810	42.48903	208.11712	13.99188	0.1401942	0.23476550	2.6024348	21	7 13.8	19.6
323891 2005 SM_{255}	16.7	X	46.22177	46.63980	24.74265	8.97854	0.2802543	0.20368776	2.8608347	21	—	—
323892 2005 SD_{270}	16.6	X	317.77723	296.29929	19.50821	9.52677	0.0718998	0.23194486	2.6234908	21	6 11.9	20.0
323893 2005 SL_{278}	16.7	X	200.98848	190.92837	204.11365	12.76947	0.0588267	0.22493835	2.6776905	21	5 2.2	20.6
323894 2005 SS_{287}	16.1	X	5.97281	48.50178	73.31201	15.94382	0.1040061	0.20263108	2.8707718	21	—	—
323895 2005 SA_{288}	16.3	X	25.11018	107.20266	92.80981	14.94185	0.1495187	0.21992401	2.7182389	21	4 30.1	19.4
323896 2005 SR_{293}	15.9	X	116.16365	280.70281	172.64231	21.80609	0.0527805	0.22120520	2.7077330	21	4 7.9	19.7
323897 2005 TM_{1}	16.3	X	253.34191	329.85252	27.07167	15.58462	0.1361988	0.22960919	2.6412522	21	5 1.9	20.3
323898 2005 TU_{1}	16.3	X	295.34333	65.32815	236.41232	11.18541	0.1516220	0.23034863	2.6355967	21	4 6.8	19.9
323899 2005 TY_{4}	16.9	X	333.00931	42.76017	184.05872	5.02918	0.1026533	0.21962866	2.7206752	21	3 2.1	20.3
323900 2005 TD_{10}	16.4	X	155.80747	73.01811	323.26555	6.89490	0.2113361	0.21736903	2.7394977	21	3 22.8	21.0
323901 2005 TZ_{11}	17.1	X	268.96108	180.11832	161.96492	2.30095	0.2216432	0.23008628	2.6375998	21	4 23.4	21.2
323902 2005 TZ_{24}	16.8	X	336.42598	98.02587	209.26568	13.81401	0.1081840	0.23362881	2.6108692	21	6 26.2	20.0
323903 2005 TW_{27}	17.1	X	266.84718	61.21848	214.21981	3.51466	0.0625281	0.21427554	2.7658013	21	2 14.0	21.2
323904 2005 TY_{27}	16.4	X	87.72765	13.96679	35.79496	9.23662	0.2749697	0.20504017	2.8482411	21	2 11.1	20.0
323905 2005 TQ_{28}	16.0	X	349.46506	2.85832	250.61138	12.36770	0.0865432	0.22992253	2.6388520	21	5 3.1	19.2
323906 2005 TL_{35}	16.8	X	64.91368	155.58090	65.56381	2.31404	0.1211202	0.23678686	2.5876030	21	7 29.1	19.9
323907 2005 TY_{38}	16.7	X	224.88493	117.64875	238.91535	6.74928	0.1624146	0.22452601	2.6809679	21	4 2.0	21.1
323908 2005 TT_{60}	16.6	X	53.08466	127.51183	338.95082	4.12871	0.1303881	0.21099946	2.7943565	21	2 3.4	19.8
323909 2005 TZ_{69}	16.1	X	169.30179	240.46104	212.35447	21.52528	0.0791174	0.22842093	2.6504043	21	6 8.7	20.3
323910 2005 TM_{74}	15.9	X	179.44212	263.93081	74.64092	10.53190	0.1332914	0.21138606	2.7909485	21	2 4.7	20.4
323911 2005 TH_{75}	15.7	X	287.55073	271.68543	26.68790	13.78574	0.1921226	0.22502392	2.6770116	21	3 26.0	19.7
323912 2005 TD_{78}	16.8	X	150.61347	235.72521	179.12026	6.58379	0.0140812	0.22266828	2.6958588	21	3 24.9	20.5
323913 2005 TL_{79}	16.6	X	163.40350	53.96032	333.59726	8.61256	0.1600969	0.21771589	2.7365872	21	3 16.1	21.1
323914 2005 TQ_{80}	16.6	X	65.82201	290.56559	216.80955	12.05303	0.0213324	0.22216299	2.6999450	21	4 2.5	20.3
323915 2005 TG_{81}	16.9	X	307.35067	9.44033	268.32645	3.10512	0.1420218	0.22685392	2.6625955	21	3 25.1	20.5
323916 2005 TV_{81}	16.9	X	7.52721	266.19747	349.24021	5.58218	0.1530824	0.23337204	2.6127839	21	6 7.0	19.5
323917 2005 TP_{83}	16.6	X	342.87716	343.17987	236.79721	5.40765	0.0736529	0.22059691	2.7127084	21	3 9.4	20.0
323918 2005 TN_{84}	16.9	X	287.50475	65.53754	220.20180	5.49473	0.0450266	0.22227875	2.6990075	21	3 24.9	20.7
323919 2005 TG_{88}	16.9	X	231.28260	269.92604	81.15457	3.23234	0.2099494	0.22610982	2.6684338	21	4 2.6	21.4
323920 2005 TW_{95}	16.7	X	344.47897	185.79036	12.81515	10.21528	0.0697652	0.21458692	2.7631251	21	2 20.1	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
323921 2005 TQ_{96}	16.9	X	47.59717	168.67218	354.94897	3.83426	0.0362227	0.21905870	2.7253924	21	4 1.8	20.4
323922 2005 TL_{97}	16.7	X	239.09357	108.95265	229.40032	4.41323	0.0652360	0.22162909	2.7042793	21	3 31.8	20.6
323923 2005 TT_{101}	15.8	X	183.67305	272.16940	70.69262	9.95253	0.2111940	0.21454914	2.7634495	21	2 17.7	20.6
323924 2005 TD_{104}	16.1	X	165.18321	159.46133	226.04659	11.91627	0.1259061	0.21654676	2.7464282	21	3 11.0	20.5
323925 2005 TW_{105}	17.0	X	235.02697	292.15467	71.91267	4.37901	0.1196661	0.22801648	2.6535375	21	4 26.9	20.9
323926 2005 TZ_{115}	16.9	X	217.21502	2.22182	355.11646	4.77916	0.0733921	0.22307098	2.6926134	21	3 31.3	20.8
323927 2005 TW_{116}	17.1	X	87.85942	107.52346	345.94601	4.49819	0.1290586	0.21461055	2.7629223	21	3 10.9	20.5
323928 2005 TW_{127}	16.4	X	94.06538	54.89106	7.06022	4.14779	0.0598170	0.21046317	2.7991015	21	1 30.6	20.1
323929 2005 TX_{129}	17.1	X	330.08108	105.72350	199.69280	4.37223	0.1861799	0.23457576	2.6038380	21	6 3.5	19.8
323930 2005 TS_{134}	16.5	X	120.86682	130.02458	269.15675	5.35481	0.0503118	0.21052056	2.7985927	21	2 1.2	20.4
323931 2005 TC_{137}	16.4	X	128.56956	47.97788	32.36285	7.77785	0.0812159	0.22066923	2.7121156	21	4 9.0	20.1
323932 2005 TO_{142}	16.1	X	33.97000	119.51063	35.70668	15.15765	0.1563622	0.21449360	2.7639265	21	3 15.6	19.2
323933 2005 TU_{161}	16.8	X	139.81150	44.08311	344.72754	3.42736	0.0623721	0.21252973	2.7809270	21	2 14.5	20.8
323934 2005 TT_{163}	16.2	X	167.40212	21.54182	0.47411	6.69074	0.0464932	0.21668090	2.7452946	21	3 8.3	20.0
323935 2005 TM_{164}	17.6	X	24.58856	271.46228	22.00507	13.61473	0.2337812	0.24282470	2.5445294	21	9 27.5	20.1
323936 2005 TX_{178}	16.9	X	318.74972	306.77285	312.16175	2.98424	0.0547332	0.22526938	2.6750666	21	3 29.6	20.3
323937 2005 TL_{188}	17.4	X	339.49638	268.23339	18.32631	4.11555	0.1422060	0.23181714	2.6244544	21	5 28.9	20.1
323938 2005 TE_{194}	17.4	X	305.26744	344.15628	304.51357	1.69744	0.0252517	0.22555791	2.6727849	21	4 24.8	21.0
323939 2005 TG_{195}	17.5	X	283.09441	153.60367	176.25815	3.99331	0.0623481	0.22976919	2.6400259	21	5 16.0	20.9
323940 2005 UR_{3}	16.3	X	209.63708	331.88365	42.38381	5.48690	0.0798387	0.22141692	2.7060066	21	4 15.1	20.4
323941 2005 UP_{13}	17.2	X	78.90924	234.96601	206.79810	3.13188	0.0696707	0.21048193	2.7989352	21	2 2.9	20.9
323942 2005 US_{15}	16.8	X	140.96913	352.29231	51.50802	6.11547	0.1109010	0.21399174	2.7682462	21	3 14.4	20.9
323943 2005 UW_{16}	16.3	X	28.59947	199.83194	261.05522	6.05757	0.2562109	0.20116448	2.8847079	21	—	—
323944 2005 UA_{18}	16.7	X	175.73448	357.82849	355.15830	3.32212	0.1057781	0.21392767	2.7687989	21	2 14.2	21.0
323945 2005 UX_{21}	16.8	X	306.65643	219.48058	18.46314	4.68630	0.0172918	0.21450157	2.7638580	21	2 24.8	20.6
323946 2005 UU_{25}	16.6	X	6.26868	82.02648	216.90890	7.45693	0.1221908	0.23728420	2.5839861	21	8 7.6	19.4
323947 2005 UR_{27}	16.1	X	268.52505	267.03725	34.29947	9.87515	0.0223457	0.21928903	2.7234837	21	3 29.2	19.8
323948 2005 UC_{28}	16.9	X	149.38815	102.50155	226.03974	1.23346	0.0661574	0.20317931	2.8656055	21	—	—
323949 2005 UM_{36}	16.5	X	2.74810	163.13963	51.27676	3.96125	0.1083584	0.21786476	2.7353404	21	4 3.8	19.6
323950 2005 UH_{38}	16.6	X	80.67745	49.97333	68.73253	4.76721	0.0249869	0.21384836	2.7694834	21	3 22.1	20.3
323951 2005 UP_{38}	16.8	X	209.51223	256.01850	84.05717	1.78371	0.0769637	0.21388939	2.7691292	21	3 4.3	21.0
323952 2005 UG_{45}	16.1	X	56.26748	103.34212	62.50718	10.72835	0.1082810	0.21813493	2.7330814	21	4 28.9	19.3
323953 2005 UW_{47}	16.1	X	187.40462	205.61688	209.38510	10.70435	0.0611377	0.22335013	2.6903693	21	5 12.5	20.0
323954 2005 UA_{48}	16.7	X	308.85398	51.99457	55.80058	8.73127	0.2761344	0.18737052	3.0246042	21	11 27.7	19.5
323955 2005 UO_{48}	17.0	X	323.03617	122.64466	132.92653	2.49161	0.0236085	0.21951160	2.7216424	21	4 7.8	20.5
323956 2005 UU_{50}	16.4	X	198.18433	11.03696	9.94309	6.35613	0.0575964	0.22011732	2.7166472	21	4 9.7	20.3
323957 2005 UA_{52}	16.1	X	117.31491	123.48767	253.16042	9.78195	0.0846569	0.20576385	2.8415589	21	1 6.0	20.0
323958 2005 UB_{61}	17.0	X	297.22397	72.86401	211.71769	2.15456	0.0374994	0.21938621	2.7226793	21	4 7.9	20.5
323959 2005 US_{61}	16.8	X	284.42406	222.09145	58.73755	5.77676	0.1228776	0.21750155	2.7383848	21	3 9.5	20.7
323960 2005 UC_{69}	16.6	X	139.91292	112.74535	296.34845	3.18003	0.0732781	0.21486565	2.7607350	21	3 10.9	20.5
323961 2005 UF_{83}	16.7	X	18.69138	341.92469	36.24029	3.26941	0.1496750	0.18929572	3.0040617	21	12 14.1	20.3
323962 2005 UV_{84}	16.3	X	66.92322	24.78973	45.68022	6.85262	0.0645633	0.20508320	2.8478427	21	1 5.1	20.0
323963 2005 UG_{86}	16.5	X	301.27739	218.92866	48.24747	9.53759	0.0852678	0.21967863	2.7202627	21	3 19.4	20.2
323964 2005 UO_{91}	16.7	X	175.83258	37.60753	352.03114	5.54005	0.0539606	0.21719830	2.7409331	21	3 26.2	20.8
323965 2005 UT_{91}	16.7	X	113.17234	128.37196	283.37846	4.25921	0.0813095	0.20963472	2.8064711	21	2 12.0	20.6
323966 2005 UA_{93}	16.5	X	235.11858	76.85093	257.98638	5.66563	0.0545797	0.21857264	2.7294314	21	3 22.3	20.5
323967 2005 UV_{93}	16.6	X	117.17747	86.60822	326.86769	3.54550	0.0645453	0.21072005	2.7968262	21	2 17.8	20.3
323968 2005 UU_{96}	17.1	X	172.07207	282.65297	93.19914	3.38463	0.0732156	0.21432227	2.7653993	21	3 8.9	21.1
323969 2005 UA_{105}	16.4	X	145.61013	169.58715	205.30332	7.53280	0.1093713	0.20891843	2.8128822	21	2 7.1	20.6
323970 2005 UC_{108}	16.7	X	104.59750	247.49012	183.10217	3.81341	0.0858340	0.21035583	2.8000536	21	2 25.9	20.3
323971 2005 UR_{108}	16.8	X	114.34962	335.45875	73.98816	6.25399	0.0761070	0.20886658	2.8133478	21	2 13.8	20.7
323972 2005 UP_{115}	16.1	X	107.41782	70.59646	29.04325	9.21687	0.1122744	0.21594176	2.7515556	21	4 12.3	19.8
323973 2005 UG_{125}	16.0	X	55.93159	265.26827	230.45990	8.61220	0.1184140	0.21164569	2.7886655	21	3 13.8	19.5
323974 2005 UV_{126}	16.8	X	27.57999	244.51757	234.31573	4.07040	0.0602033	0.20482057	2.8502766	21	1 8.8	20.4
323975 2005 UH_{134}	16.7	X	140.19742	127.62507	255.33302	5.41103	0.0724215	0.21080749	2.7960528	21	2 6.7	20.7
323976 2005 UW_{146}	16.0	X	183.41892	328.42644	28.44082	7.81947	0.0735498	0.21344687	2.7729552	21	2 27.7	20.2
323977 2005 UZ_{148}	16.3	X	66.70697	71.21999	32.49787	4.47431	0.0659981	0.20966662	2.8061864	21	2 16.7	19.8
323978 2005 UD_{149}	16.6	X	38.06162	309.69319	229.31913	8.30890	0.0847785	0.21766147	2.7370433	21	4 10.8	19.9
323979 2005 UG_{149}	16.7	X	210.79243	325.79623	28.07634	3.76600	0.0717744	0.21777913	2.7360575	21	3 22.3	20.7
323980 2005 UH_{150}	16.2	X	138.23731	57.48278	25.02622	5.98700	0.1215804	0.22210781	2.7003921	21	4 25.8	20.3
323981 2005 UT_{153}	16.6	X	153.07325	160.08789	239.52022	2.60825	0.0990286	0.21386092	2.7693749	21	3 16.9	20.8
323982 2005 UX_{174}	16.7	X	326.08378	293.81227	345.35017	3.29950	0.0572399	0.22313770	2.6920766	21	5 6.7	20.0
323983 2005 UY_{176}	15.7	X	265.01538	282.42581	44.58794	14.42187	0.1094394	0.22230533	2.6987923	21	4 16.0	19.6
323984 2005 UD_{179}	16.8	X	103.29779	259.34485	147.36990	2.48874	0.0671467	0.20577304	2.8414743	21	1 23.9	20.7
323985 2005 US_{189}	17.1	X	339.75195	18.18659	262.69908	1.24273	0.0862266	0.22764093	2.6564551	21	5 28.1	20.0
323986 2005 UE_{192}	16.8	X	348.58392	115.15419	28.01887	2.13846	0.0160282	0.20190964	2.8776062	21	—	—
323987 2005 UH_{198}	16.6	X	143.12730	271.74133	179.41549	7.56048	0.1055835	0.22624449	2.6673748	21	5 12.7	20.6
323988 2005 UO_{198}	17.0	X	142.85927	43.76403	359.14387	4.28046	0.0615550	0.21427491	2.7658068	21	3 7.3	20.7
323989 2005 UY_{203}	16.7	X	138.99008	334.99490	84.30022	1.37046	0.0614178	0.21489676	2.7604686	21	3 23.4	20.6
323990 2005 UF_{213}	16.8	X	7.68763	174.18830	248.93040	0.72728	0.0639129	0.19366201	2.9587374	21	—	—
323991 2005 UN_{220}	16.2	X	222.00842	82.16607	253.34461	4.99627	0.0694293	0.21732852	2.7398381	21	3 8.2	20.3
323992 2005 UA_{221}	16.6	X	181.26012	48.80369	357.83933	4.74754	0.0681814	0.22127049	2.7072002	21	4 22.6	20.6
323993 2005 UL_{232}	16.4	X	73.98774	60.89343	55.16753	4.47505	0.0531712	0.21272073	2.7792621	21	3 13.1	20.0
323994 2005 UB_{234}	16.3	X	93.52419	249.67915	182.82589	4.90065	0.1048285	0.20853130	2.8163625	21	2 16.4	19.9
323995 2005 UB_{235}	16.2	X	177.96473	201.52332	203.76196	9.38364	0.0681938	0.21932933	2.7231501	21	4 19.1	20.1
323996 2005 UG_{235}	16.6	X	318.23417	178.09706	84.73258	6.01104	0.0666774	0.21943839	2.7222477	21	4 6.9	20.1
323997 2005 UC_{241}	16.1	X	151.59942	159.10020	175.14053	5.81745	0.0722673	0.20317605	2.8656361	21	—	—
323998 2005 UM_{241}	16.3	X	286.67707	338.76412	2.78111	3.53969	0.1631614	0.22886252	2.6469938	21	5 19.2	19.8
323999 2005 UP_{248}	16.6	X	273.86466	239.12948	57.02552	9.30007	0.0931397	0.21880715	2.7274809	21	3 21.9	20.6
324000 2005 UD_{251}	16.4	X	134.59174	151.80042	247.15319	4.66172	0.1056031	0.21242392	2.7818504	21	2 23.6	20.5