Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312001 2007 PK_2	13.1	X	257.18558	347.72033	136.05921	17.96282	0.1215947	0.08361365	5.1794614	21	10 14.4	20.3
312002 2007 PL_6	17.2	X	66.68243	185.85521	160.02511	5.29416	0.1906871	0.29985013	2.2107173	21	—	—
312003 2007 PM_{15}	16.8	X	226.86003	56.92522	338.80117	14.30244	0.2722566	0.26568843	2.3963723	21	5 11.8	21.3
312004 2007 PW_{27}	15.9	X	308.00019	294.31089	125.18517	23.05860	0.2935192	0.28608073	2.2810964	21	10 22.5	18.0
312005 2007 PG_{32}	16.6	X	16.96289	324.36030	356.40975	7.33480	0.1046790	0.28505644	2.2865576	21	10 5.4	18.8
312006 2007 PD_{49}	17.8	X	58.34898	263.70259	41.06624	1.53995	0.1845901	0.29209317	2.2496853	21	11 27.3	20.7
312007 2007 QH_6	17.1	X	31.22808	8.36758	322.47066	10.40302	0.2022194	0.29036451	2.2586054	21	11 28.8	19.9
312008 2007 QB_7	17.2	X	336.37474	17.79195	358.26930	6.25379	0.1667096	0.28569014	2.2831751	21	10 16.8	18.8
312009 2007 QR_8	17.2	X	304.08151	218.60420	162.36340	5.90901	0.1747998	0.28019145	2.3129494	21	8 10.8	19.4
312010 2007 QO_{16}	17.4	X	10.78960	221.00981	143.71802	2.31546	0.1973429	0.29211714	2.2495623	21	12 17.7	19.6
312011 2007 RW_2	18.0	X	286.32764	201.05509	162.88971	2.54765	0.2067236	0.27435236	2.3456520	21	6 11.2	20.9
312012 2007 RO_{15}	16.1	X	179.41807	88.64757	285.36569	30.62266	0.1410257	0.23858893	2.5745571	21	2 22.9	20.8
312013 2007 RV_{16}	17.4	X	269.55131	357.91722	26.56073	4.48778	0.2467882	0.27013417	2.3700074	21	6 12.5	20.8
312014 2007 RH_{18}	17.2	X	263.84662	204.19849	222.27225	4.12735	0.1112717	0.27795997	2.3253119	21	8 22.9	20.2
312015 2007 RL_{29}	17.0	X	12.67602	182.67261	211.44118	8.78786	0.1071118	0.29454974	2.2371595	21	—	—
312016 2007 RL_{34}	17.2	X	256.04925	85.40696	305.25051	4.98702	0.2419824	0.27050509	2.3678404	21	6 7.1	20.7
312017 2007 RQ_{36}	17.0	X	314.07065	335.71186	2.82672	1.33306	0.1883012	0.27335925	2.3513297	21	6 21.3	19.3
312018 2007 RJ_{45}	17.5	X	322.43046	45.29178	326.74642	7.00844	0.1333415	0.28034382	2.3121113	21	9 8.5	19.5
312019 2007 RN_{45}	17.7	X	33.08894	139.21121	248.69938	3.53561	0.0950187	0.29727551	2.2234633	21	—	—
312020 2007 RP_{48}	17.2	X	254.00489	102.98924	17.89949	5.34144	0.0494110	0.28594711	2.2818070	21	11 6.8	19.8
312021 2007 RV_{60}	17.3	X	242.42717	65.09826	323.74452	4.30679	0.2238287	0.26701256	2.3884432	21	5 23.6	21.2
312022 2007 RE_{72}	17.4	X	297.88166	286.84299	70.13448	2.29610	0.1999626	0.27392931	2.3480665	21	6 19.1	19.9
312023 2007 RT_{75}	13.7	X	354.08171	241.18050	154.73192	4.35143	0.0280539	0.07918534	5.3708068	21	11 3.6	20.6
312024 2007 RE_{86}	17.5	X	334.75690	339.02200	353.27955	2.31216	0.2023279	0.27738576	2.3285198	21	7 26.6	18.9
312025 2007 RN_{95}	17.2	X	311.55233	351.30115	26.55937	7.23293	0.1263095	0.27742610	2.3282941	21	9 1.9	19.5
312026 2007 RS_{98}	16.9	X	5.31622	231.27329	66.74460	4.20421	0.2197710	0.27699241	2.3307237	21	8 22.1	18.3
312027 2007 RL_{103}	17.3	X	305.90232	326.09797	358.86885	2.25199	0.2116648	0.27012304	2.3700725	21	5 12.5	20.1
312028 2007 RA_{119}	17.0	X	234.94377	355.87925	38.00164	1.08645	0.2169003	0.26590609	2.3950644	21	5 24.7	20.9
312029 2007 RU_{125}	16.9	X	325.63529	342.28080	63.29158	7.56327	0.0993094	0.28605037	2.2812578	21	11 12.2	18.8
312030 2007 RK_{133}	15.8	X	163.61819	236.53018	82.89945	32.17173	0.3219240	0.24095204	2.5576963	21	1 3.4	20.4
312031 2007 RJ_{141}	17.1	X	44.17637	102.40057	209.71998	2.05389	0.1710916	0.28687744	2.2768711	21	11 17.4	19.8
312032 2007 RM_{141}	17.4	X	289.51877	38.44227	3.81179	3.75866	0.1480307	0.27815253	2.3242386	21	8 24.3	19.6
312033 2007 RR_{143}	17.9	X	270.82882	115.09337	284.42696	2.86193	0.2429362	0.27365420	2.3496399	21	7 5.7	20.8
312034 2007 RA_{146}	16.8	X	314.71307	119.77374	254.50086	2.60395	0.2597468	0.27586707	2.3370579	21	8 6.8	18.4
312035 2007 RL_{153}	17.9	X	175.77693	288.28805	315.07431	3.76756	0.1439486	0.30294760	2.1956227	21	—	—
312036 2007 RX_{156}	17.6	X	290.20267	169.34260	135.32825	2.04408	0.1826364	0.26596615	2.3947038	21	3 30.8	20.7
312037 2007 RS_{164}	17.1	X	320.72815	84.16236	297.45757	2.78831	0.0760888	0.28309525	2.2971058	21	9 24.9	19.3
312038 2007 RT_{174}	17.3	X	245.56512	335.40045	44.63808	5.42841	0.2074564	0.26503870	2.4002871	21	5 17.2	20.9
312039 2007 RQ_{180}	18.0	X	67.97227	203.73097	154.03121	2.47143	0.0450077	0.30027061	2.2086530	21	—	—
312040 2007 RC_{185}	17.6	X	345.62588	73.75970	272.67702	4.42430	0.2559261	0.28071736	2.3100597	21	9 20.3	18.7
312041 2007 RB_{209}	17.5	X	101.20716	266.34990	34.69881	3.31882	0.1623393	0.29693443	2.2251656	21	—	—
312042 2007 RQ_{212}	17.3	X	99.77788	256.13731	69.14409	2.10496	0.1723181	0.30075495	2.2062812	21	—	—
312043 2007 RQ_{219}	17.5	X	234.14696	87.24371	296.62027	1.50139	0.2283014	0.26328602	2.4109277	21	5 10.2	21.4
312044 2007 RS_{232}	17.1	X	337.72509	329.79346	42.52096	6.38475	0.1807126	0.28338803	2.2955234	21	10 17.4	18.5
312045 2007 RZ_{232}	17.8	X	311.57005	228.18283	177.81080	4.46394	0.2372429	0.28383404	2.2931180	21	10 1.9	19.2
312046 2007 RO_{239}	16.9	X	44.71568	245.83360	99.65607	7.34012	0.1639941	0.29275015	2.2463183	21	—	—
312047 2007 RG_{240}	17.5	X	259.24926	71.31509	334.39140	1.48314	0.1764751	0.27069354	2.3667413	21	7 9.8	20.6
312048 2007 RW_{241}	18.1	X	277.99022	212.47737	148.79721	1.68636	0.2044761	0.27034962	2.3687481	21	5 28.1	21.1
312049 2007 RF_{245}	17.7	X	264.79446	343.36606	84.75756	3.43974	0.1800970	0.27476273	2.3433159	21	8 18.6	20.5
312050 2007 RD_{246}	17.7	X	320.41565	305.24255	30.52590	5.42944	0.1350903	0.27501423	2.3418870	21	7 9.2	20.0
312051 2007 RO_{285}	17.7	X	175.81828	264.15883	190.75577	2.11591	0.1442318	0.25953543	2.4340993	21	6 20.3	21.4
312052 2007 RX_{286}	17.0	X	301.84846	304.60045	80.96597	7.90002	0.1767667	0.27855550	2.3219965	21	8 18.0	19.3
312053 2007 RG_{298}	17.4	X	268.17169	333.74149	82.73910	3.77377	0.1517280	0.27575048	2.3377166	21	8 11.2	20.2
312054 2007 RR_{309}	17.7	X	157.31709	195.13396	31.57780	3.03369	0.0330162	0.28409990	2.2916871	21	11 25.7	20.5
312055 2007 RC_{319}	17.5	X	287.76690	135.28938	277.64382	4.73088	0.1952164	0.27770586	2.3267302	21	8 25.4	19.9
312056 2007 RD_{321}	17.4	X	191.92311	99.33514	307.14795	1.81669	0.1825511	0.25918352	2.4363020	21	5 3.4	21.4
312057 2007 RC_{325}	17.8	X	101.76569	335.10747	328.98024	1.86038	0.0187282	0.29302306	2.2449233	21	12 31.2	20.6
312058 2007 ST_5	17.9	X	273.00334	111.55386	292.23216	1.18784	0.2189306	0.27415881	2.3467559	21	7 18.2	20.7
312059 2007 SO_{15}	16.7	X	134.71755	166.87700	284.29325	5.08469	0.2665862	0.24102695	2.5571663	21	5 14.9	21.0
312060 2007 SU_{15}	17.7	X	296.47510	52.54032	349.81965	1.67002	0.1997408	0.28034659	2.3120960	21	8 27.2	19.6
312061 2007 SY_{16}	17.5	X	285.61498	81.15010	350.14709	3.08916	0.1356942	0.28328713	2.2960684	21	10 1.8	19.9
312062 2007 SU_{21}	17.7	X	288.50187	326.82993	86.05888	2.90759	0.1590925	0.27916015	2.3186423	21	9 6.6	19.9
312063 2007 SH_{22}	17.6	X	241.81420	311.60571	83.72434	2.31906	0.1849307	0.26704400	2.3882558	21	6 5.0	20.9
312064 2007 SC_{23}	17.0	X	206.99685	278.09927	189.17157	6.85404	0.0639999	0.27103467	2.3647550	21	8 11.6	20.3
312065 2007 TB_{10}	17.2	X	342.33781	334.49143	33.70651	3.72895	0.1817040	0.28221059	2.3019038	21	10 20.3	18.8
312066 2007 TP_{12}	16.5	X	285.58626	306.54992	64.56489	2.40533	0.2024272	0.27007119	2.3703758	21	6 21.1	19.4
312067 2007 TM_{13}	16.6	X	302.64639	313.81652	33.35079	13.86603	0.2855838	0.27088222	2.3656422	21	5 24.6	19.6
312068 2007 TE_{18}	17.3	X	295.98236	73.58598	304.28939	5.14733	0.1440745	0.27333079	2.3514929	21	7 28.0	19.6
312069 2007 TL_{18}	17.2	X	277.54305	219.66313	136.72331	2.89798	0.2124213	0.26760674	2.3849065	21	5 20.3	20.4
312070 2007 TA_{19}	19.4	X	347.00398	58.05436	181.19280	22.62824	0.5094102	1.05767578	0.9540424	21	10 22.5	18.1
312071 2007 TJ_{22}	16.7	X	259.68430	344.44889	58.86590	6.74134	0.1742927	0.26746383	2.3857559	21	7 7.6	19.9
312072 2007 TG_{24}	17.9	X	261.41615	76.98523	332.98067	0.59350	0.1729362	0.27067991	2.3668207	21	7 18.9	20.9
312073 2007 TL_{29}	17.6	X	349.03681	255.11950	38.56640	1.97735	0.0343630	0.26683334	2.3895126	21	7 3.8	20.4
312074 2007 TW_{34}	17.5	X	191.90623	38.15508	55.74682	2.35554	0.1553410	0.26261151	2.4150542	21	7 4.9	21.4
312075 2007 TK_{39}	17.7	X	208.15010	44.95912	57.33038	2.82616	0.1560019	0.26675607	2.3899740	21	8 2.1	21.4
312076 2007 TH_{41}	17.4	X	322.06002	279.36189	56.69449	3.02983	0.2148675	0.27149037	2.3621081	21	6 29.0	19.3
312077 2007 TH_{43}	17.8	X	161.76459	28.42246	59.97890	2.31810	0.1565859	0.25519563	2.4616174	21	5 29.2	21.5
312078 2007 TB_{45}	17.2	X	2.13915	253.37531	54.34180	4.22672	0.1746283	0.27629994	2.3346164	21	8 26.6	18.9
312079 2007 TL_{49}	17.3	X	259.79836	90.63487	337.24170	2.05125	0.1984217	0.27248367	2.3563641	21	8 7.6	20.3
312080 2007 TO_{50}	17.6	X	252.68365	119.63408	4.89766	3.28275	0.0770375	0.28376222	2.2935049	21	11 5.4	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312081 2007 TT_{60}	17.4	X	295.42646	343.09833	74.42290	2.07780	0.1604734	0.28236277	2.3010767	21	9 26.5	19.3
312082 2007 TT_{62}	17.2	X	344.48976	337.09626	5.00145	2.34151	0.1954665	0.27790879	2.3255974	21	9 9.8	18.6
312083 2007 TO_{75}	17.6	X	287.90604	265.69107	67.15059	3.30217	0.2042547	0.26671469	2.3902212	21	5 1.7	20.7
312084 2007 TQ_{78}	17.5	X	262.48233	162.95932	275.90108	1.83470	0.1628031	0.27473748	2.3434594	21	8 31.2	20.4
312085 2007 TN_{79}	16.9	X	197.07765	153.51057	20.66087	5.76327	0.0838740	0.28185621	2.3038329	21	10 30.3	20.0
312086 2007 TF_{95}	16.4	X	307.01199	285.12621	61.54845	7.80820	0.1543388	0.27036823	2.3686394	21	6 27.1	18.9
312087 2007 TS_{95}	17.4	X	166.36465	256.93794	237.45052	4.51834	0.1161236	0.26364095	2.4087634	21	7 31.1	21.1
312088 2007 TQ_{97}	17.3	X	288.99435	220.96633	156.95002	2.81630	0.2153006	0.27264509	2.3554339	21	7 3.6	20.1
312089 2007 TG_{99}	17.9	X	239.21810	18.24708	65.55174	2.11994	0.1621396	0.27197262	2.3593150	21	8 10.2	21.2
312090 2007 TW_{99}	17.8	X	197.52654	311.95983	170.81835	3.12971	0.1539108	0.26764119	2.3847018	21	8 17.0	21.4
312091 2007 TD_{104}	17.0	X	25.71541	188.13312	52.61850	6.92803	0.1051205	0.26136316	2.4227381	21	6 17.9	19.4
312092 2007 TR_{108}	17.6	X	270.51688	132.42222	275.86725	1.89425	0.2205064	0.27318601	2.3523237	21	7 20.8	20.6
312093 2007 TT_{108}	17.5	X	8.72833	26.68931	334.93288	4.06724	0.1582976	0.28632004	2.2798252	21	11 30.4	19.8
312094 2007 TG_{110}	17.5	X	232.55613	90.82921	42.09340	3.60051	0.0640475	0.28029990	2.3123527	21	10 22.9	20.4
312095 2007 TM_{114}	17.3	X	249.90809	70.83815	295.49480	1.91069	0.2008799	0.26271898	2.4143955	21	5 4.0	21.1
312096 2007 TH_{122}	17.0	X	261.88865	47.33024	37.99852	8.02594	0.0713185	0.27739257	2.3284817	21	9 28.3	19.7
312097 2007 TF_{129}	16.7	X	201.07271	244.89360	33.05358	4.25960	0.1772334	0.23450690	2.6043477	21	—	—
312098 2007 TM_{130}	16.8	X	276.02002	174.40089	239.50014	5.79196	0.0960216	0.27439498	2.3454091	21	8 23.9	19.8
312099 2007 TC_{131}	17.6	X	141.87001	138.44889	20.60555	1.37295	0.1321226	0.26595800	2.3947527	21	8 9.9	21.1
312100 2007 TW_{133}	17.5	X	165.07836	68.19430	44.47773	7.36179	0.0871578	0.26121202	2.4236725	21	7 1.4	21.0
312101 2007 TX_{133}	17.7	X	225.37530	283.35342	157.59762	1.11278	0.1583409	0.26661673	2.3908066	21	7 21.2	21.2
312102 2007 TV_{143}	17.5	X	320.55602	301.81838	27.62635	4.44941	0.2049369	0.27366086	2.3496017	21	6 16.1	19.5
312103 2007 TN_{148}	17.3	X	269.14244	271.61230	82.07195	3.08792	0.2474615	0.26527586	2.3988563	21	5 3.4	20.9
312104 2007 TX_{153}	16.9	X	217.42326	204.47377	242.44828	5.90983	0.0658368	0.27057191	2.3674505	21	7 27.1	20.1
312105 2007 TN_{156}	17.0	X	308.09602	36.28376	10.66655	12.71922	0.0813861	0.28046372	2.3114522	21	10 10.7	19.4
312106 2007 TO_{156}	17.1	X	304.64054	13.49031	353.33793	4.40397	0.1695757	0.27357792	2.3500766	21	7 23.2	19.5
312107 2007 TR_{158}	16.9	X	359.32397	304.22977	4.32446	5.70628	0.1179785	0.27376695	2.3489947	21	8 17.2	19.0
312108 2007 TS_{159}	17.4	X	225.88395	43.65537	12.98622	3.98036	0.2121568	0.26362252	2.4088756	21	6 15.2	21.2
312109 2007 TV_{159}	16.8	X	311.09784	160.83226	232.93128	5.85809	0.1608825	0.27735066	2.3287163	21	9 14.9	18.9
312110 2007 TJ_{162}	18.2	X	198.03579	190.54877	216.10299	4.05631	0.2255980	0.25819931	2.4424892	21	5 9.9	22.3
312111 2007 TH_{167}	17.2	X	30.29670	354.33463	308.08446	3.46510	0.1336982	0.28073807	2.3099461	21	10 4.1	19.5
312112 2007 TL_{168}	17.0	X	12.61459	11.28773	284.67821	3.53659	0.2328510	0.27714895	2.3298461	21	9 4.1	18.5
312113 2007 TG_{173}	17.7	X	191.57340	241.34664	198.97199	0.73888	0.1924698	0.26232739	2.4167977	21	6 16.1	21.5
312114 2007 TG_{177}	17.7	X	258.14149	234.04425	166.09682	3.28630	0.2037025	0.26833908	2.3805653	21	6 26.8	21.0
312115 2007 TK_{181}	17.2	X	285.43549	277.44203	75.65791	7.86751	0.1659351	0.26808121	2.3820917	21	6 1.2	20.2
312116 2007 TF_{193}	18.2	X	240.87868	133.78618	206.81317	2.11001	0.2173834	0.25559679	2.4590411	21	3 24.1	22.3
312117 2007 TQ_{194}	17.7	X	224.81072	72.61494	36.80131	2.84220	0.0768981	0.27433630	2.3457436	21	9 8.4	20.7
312118 2007 TS_{202}	17.3	X	203.18128	25.16542	81.20742	3.36415	0.1503214	0.26634490	2.3924331	21	8 2.7	21.0
312119 2007 TY_{202}	17.7	X	242.91509	260.27823	103.93129	2.48138	0.1889338	0.25952432	2.4341687	21	4 27.5	21.4
312120 2007 TW_{210}	17.0	X	202.07792	305.33047	253.37896	7.49763	0.0693137	0.28929470	2.2641702	21	12 12.1	19.6
312121 2007 TK_{220}	17.9	X	216.80757	350.58891	63.50462	1.33355	0.1959056	0.26517918	2.3994393	21	6 4.7	21.9
312122 2007 TV_{228}	18.4	X	217.07002	32.86948	355.69022	0.78161	0.1880877	0.25837641	2.4413730	21	5 3.5	22.4
312123 2007 TS_{229}	17.6	X	148.03883	303.01486	203.26281	1.77773	0.1156824	0.26410532	2.4059390	21	7 28.3	21.1
312124 2007 TG_{236}	17.4	X	181.20961	52.33886	60.86490	3.23013	0.1883192	0.26430910	2.4047022	21	7 20.1	21.3
312125 2007 TT_{237}	16.9	X	277.86556	301.14091	66.83730	6.72218	0.1254944	0.26624390	2.3930380	21	6 18.1	19.8
312126 2007 TU_{239}	17.7	X	164.28267	92.91461	26.79157	1.84042	0.1031019	0.26090107	2.4255979	21	7 10.6	21.2
312127 2007 TO_{246}	16.4	X	50.90509	44.95097	355.66957	12.80044	0.2564259	0.22571322	2.6715587	21	—	—
312128 2007 TX_{248}	17.0	X	308.63837	23.18240	345.46482	6.42804	0.1389734	0.27378245	2.3489061	21	8 8.4	19.2
312129 2007 TJ_{254}	17.4	X	220.71000	330.81858	118.41688	2.97256	0.1846344	0.26692409	2.3889710	21	7 25.4	20.8
312130 2007 TH_{263}	17.3	X	192.32234	84.78634	43.96030	2.86105	0.0980520	0.26937290	2.3744705	21	8 24.6	20.6
312131 2007 TG_{267}	17.7	X	206.59894	21.52884	203.47206	3.87326	0.0881789	0.29700834	2.2247965	21	—	—
312132 2007 TY_{271}	18.0	X	166.53840	194.93781	266.15079	1.07574	0.0556343	0.26125990	2.4233764	21	6 15.7	21.0
312133 2007 TT_{279}	17.2	X	288.12514	232.26755	88.71168	6.25462	0.1945311	0.26225653	2.4172330	21	4 19.9	20.5
312134 2007 TZ_{282}	17.5	X	240.17626	24.15408	52.92472	2.27652	0.1596137	0.27184406	2.3600588	21	8 2.4	20.9
312135 2007 TH_{284}	17.1	X	207.87279	128.57444	317.79594	5.31787	0.1949767	0.26728744	2.3868054	21	7 9.2	20.9
312136 2007 TD_{287}	16.9	X	293.00303	283.13630	96.11833	7.59470	0.1409708	0.27561456	2.3384851	21	7 26.7	19.3
312137 2007 TS_{289}	17.6	X	255.70946	314.10988	95.45450	3.31495	0.1985701	0.27153851	2.3618289	21	7 7.8	20.8
312138 2007 TD_{297}	17.2	X	309.64710	221.63499	141.74976	4.47858	0.2908773	0.27337152	2.3512594	21	7 2.4	19.4
312139 2007 TY_{298}	17.1	X	274.23062	81.50561	17.03697	6.84561	0.0455426	0.28325923	2.2962192	21	11 4.7	19.6
312140 2007 TR_{300}	17.4	X	115.82854	278.05341	285.10684	1.39182	0.1132965	0.27125355	2.3634827	21	9 7.2	20.7
312141 2007 TW_{314}	18.2	X	237.00809	189.92218	269.48236	0.53933	0.1341194	0.27280494	2.3545138	21	8 31.6	21.4
312142 2007 TP_{362}	17.1	X	301.89632	289.69660	57.11574	7.31892	0.1419239	0.26612745	2.3937361	21	6 20.6	19.8
312143 2007 TW_{366}	17.3	X	178.66888	171.23533	277.78882	3.96413	0.0092752	0.26076128	2.4264647	21	6 13.2	20.4
312144 2007 TW_{373}	16.9	X	359.21231	65.01694	334.44524	6.84756	0.2023863	0.21726404	2.7403802	21	12 25.9	19.8
312145 2007 TM_{376}	17.0	X	319.87943	278.56728	134.12823	7.53239	0.1024595	0.28474928	2.2882016	21	11 14.2	19.2
312146 2007 TE_{391}	16.6	X	135.65028	154.61748	244.51065	2.93030	0.2581715	0.23833973	2.5763513	21	3 11.5	20.6
312147 2007 TG_{412}	17.0	X	198.84628	148.89814	288.77786	5.95337	0.0935054	0.26287308	2.4134518	21	6 22.2	20.5
312148 2007 TY_{412}	16.9	X	304.47728	337.51998	84.45275	7.48193	0.0748182	0.28479157	2.2879751	21	11 1.7	19.3
312149 2007 TE_{413}	17.0	X	315.51153	278.03914	105.32608	7.17349	0.1181065	0.27922080	2.3183066	21	9 20.1	19.2
312150 2007 TJ_{424}	16.9	X	230.09890	234.76687	130.68434	5.39386	0.1611465	0.25706912	2.4496429	21	4 20.2	20.7
312151 2007 TP_{432}	17.8	X	265.61613	336.01303	73.86151	2.27651	0.1812460	0.27128447	2.3633031	21	7 23.4	20.9
312152 2007 TH_{440}	16.0	X	15.89219	130.85223	73.06260	6.60565	0.0731019	0.24061385	2.5600924	21	4 10.9	18.9
312153 2007 TA_{448}	17.2	X	185.07874	242.71994	245.28453	5.41719	0.1750346	0.26711101	2.3878563	21	8 9.3	21.1
312154 2007 UU_{6}	17.4	X	269.58420	200.53885	218.67182	0.80377	0.1726563	0.27364264	2.3497060	21	8 11.8	20.3
312155 2007 UH_{12}	18.1	X	8.12226	26.86283	335.98649	2.82863	0.2356832	0.28995131	2.2607507	21	12 16.4	20.2
312156 2007 UN_{14}	17.1	X	225.57768	290.20456	103.46311	5.90582	0.1107607	0.26127486	2.4232839	21	5 23.9	20.7
312157 2007 UH_{22}	17.4	X	138.27063	84.65400	70.59863	3.01082	0.1137725	0.26360075	2.4090083	21	7 30.9	20.9
312158 2007 UR_{31}	17.7	X	259.77796	15.84561	57.29780	3.37221	0.1541073	0.27428551	2.3460331	21	8 23.4	20.7
312159 2007 UC_{37}	16.9	X	26.15106	179.63656	102.51482	6.59408	0.1861555	0.27551206	2.3390651	21	9 9.2	19.1
312160 2007 UF_{54}	17.4	X	269.84119	15.49217	42.48373	5.11603	0.0472131	0.27235573	2.3571020	21	9 3.6	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312161 2007 UP_{56}	17.2	X	259.98264	191.88691	236.08925	4.24927	0.1830138	0.27163652	2.3612608	21	8 8.0	20.3
312162 2007 UE_{57}	17.6	X	199.89732	42.68088	33.37684	2.59966	0.1520244	0.26024332	2.4296832	21	6 19.1	21.3
312163 2007 UD_{60}	18.1	X	227.42490	138.63779	319.56704	0.71863	0.1427107	0.26918643	2.3755670	21	8 17.6	21.4
312164 2007 UW_{70}	17.2	X	164.17879	313.47710	218.72955	2.18268	0.1674377	0.27256994	2.3558668	21	9 17.9	20.9
312165 2007 UJ_{82}	17.6	X	131.96537	185.01412	341.02594	1.30034	0.1239345	0.26415948	2.4056102	21	8 7.6	21.0
312166 2007 UF_{87}	17.4	X	187.82184	215.66220	335.87125	1.88643	0.1418716	0.27962889	2.3160505	21	11 6.4	20.8
312167 2007 UL_{91}	17.7	X	234.67433	305.55698	48.05306	1.92168	0.2010933	0.25574207	2.4581098	21	4 5.6	21.8
312168 2007 UP_{96}	18.2	X	223.85769	125.11389	333.44283	0.70619	0.1479455	0.26810339	2.3819602	21	8 13.5	21.7
312169 2007 UW_{107}	18.1	X	206.21185	102.29272	12.48840	2.63116	0.1793043	0.27012861	2.3700399	21	8 15.3	21.6
312170 2007 UB_{115}	17.2	X	258.27592	152.12290	243.70968	5.53739	0.1027923	0.26574703	2.3960200	21	7 4.4	20.5
312171 2007 UQ_{115}	17.4	X	275.14532	79.47082	352.36061	1.16335	0.0954149	0.27473137	2.3434942	21	9 21.2	20.1
312172 2007 UA_{129}	16.7	X	220.90019	301.71949	121.39618	7.29320	0.1552431	0.26252171	2.4156049	21	6 23.2	20.5
312173 2007 UZ_{135}	16.9	X	140.68150	245.87037	252.35330	5.63610	0.0933868	0.25897993	2.4375787	21	7 7.3	20.3
312174 2007 UF_{142}	17.1	X	187.58450	46.43571	86.34269	7.05500	0.0714188	0.26666065	2.3905441	21	8 27.5	20.5
312175 2007 VB_{2}	16.1	X	250.96940	258.59280	22.88421	15.00611	0.1247441	0.24530096	2.5273761	21	2 1.7	20.2
312176 2007 VA_{5}	16.8	X	3.59517	37.80675	285.11326	5.41641	0.1136831	0.27995754	2.3142375	21	9 12.4	19.2
312177 2007 VV_{5}	17.6	X	300.66337	122.66513	261.55191	1.48748	0.2295970	0.27388151	2.3483396	21	7 30.3	19.8
312178 2007 VX_{9}	16.7	X	339.16291	212.79464	92.95465	7.56527	0.1373704	0.27078891	2.3661856	21	6 27.3	18.6
312179 2007 VS_{10}	16.6	X	29.33635	243.42306	114.90351	8.24675	0.1843553	0.29194718	2.2504353	21	—	—
312180 2007 VB_{18}	17.6	X	160.46620	87.92031	49.48756	6.96966	0.1498529	0.26437134	2.4043248	21	8 2.7	21.4
312181 2007 VG_{36}	17.3	X	280.82885	19.54844	16.67179	4.68645	0.0981120	0.27305073	2.3531006	21	8 10.0	20.0
312182 2007 VA_{48}	17.0	X	169.73907	127.44755	16.97319	7.30836	0.0618586	0.26777496	2.3839075	21	8 22.3	20.3
312183 2007 VD_{50}	17.2	X	110.99966	198.98519	22.80462	7.55098	0.0603002	0.27292028	2.3538503	21	9 24.4	20.2
312184 2007 VU_{62}	16.9	X	67.17956	99.63955	44.18807	4.05217	0.1285289	0.24386304	2.5373014	21	4 13.6	19.7
312185 2007 VP_{63}	17.4	X	183.65231	49.77422	76.64958	4.35683	0.1090444	0.26413174	2.4057786	21	8 11.3	21.0
312186 2007 VZ_{63}	16.4	X	114.43968	286.28601	257.22665	8.29779	0.0560581	0.26178688	2.4201231	21	7 31.4	19.7
312187 2007 VG_{67}	17.3	X	271.03442	87.04639	300.94682	2.94856	0.2640375	0.26877163	2.3780105	21	6 17.1	20.5
312188 2007 VL_{88}	17.0	X	5.05123	64.61431	282.13326	6.76176	0.1387839	0.27913579	2.3187773	21	10 25.4	19.3
312189 2007 VV_{89}	17.6	X	261.19709	342.48560	87.56633	2.26896	0.1624107	0.27166690	2.3610847	21	8 18.6	20.5
312190 2007 VC_{91}	16.8	X	191.75341	251.01500	294.48088	5.56624	0.0772236	0.28372837	2.2936873	21	11 7.9	20.0
312191 2007 VU_{95}	17.6	X	192.22802	194.45147	275.93372	2.27220	0.1760562	0.26315767	2.4117116	21	7 25.8	21.3
312192 2007 VV_{113}	17.4	X	203.08098	28.19983	114.07717	2.05665	0.1231659	0.27083224	2.3659332	21	9 21.7	20.8
312193 2007 VQ_{123}	17.3	X	276.62232	291.16627	64.83038	4.17636	0.1605451	0.26480826	2.4016794	21	5 25.4	20.6
312194 2007 VG_{148}	17.0	X	181.42210	49.18916	95.60394	8.00218	0.0749146	0.26669768	2.3903228	21	9 6.0	20.4
312195 2007 VJ_{161}	17.3	X	188.30573	161.51222	305.20117	2.93611	0.1466846	0.26179513	2.4200723	21	7 18.4	20.9
312196 2007 VD_{169}	16.8	X	359.11684	145.34189	80.63627	2.15750	0.0045199	0.24720992	2.5143484	21	4 15.9	20.1
312197 2007 VK_{173}	17.0	X	298.76637	224.63180	153.72839	4.49833	0.1428019	0.27132215	2.3630843	21	8 2.1	19.6
312198 2007 VB_{184}	16.2	X	226.91143	139.19465	25.34512	26.39284	0.2027692	0.28055912	2.3109282	21	11 1.5	19.7
312199 2007 VA_{198}	16.6	X	160.12066	313.83284	87.81983	4.70391	0.1645705	0.24038475	2.5617187	21	4 1.9	20.6
312200 2007 VT_{208}	16.8	X	88.18977	345.07780	107.31307	6.29922	0.2279328	0.23356010	2.6113812	21	3 26.3	20.0
312201 2007 VU_{208}	17.2	X	259.41031	258.87079	118.68034	2.33290	0.2848339	0.26518310	2.3994156	21	5 20.9	21.0
312202 2007 VW_{227}	17.3	X	281.00291	358.84873	104.85396	6.10542	0.1188895	0.28159242	2.3052715	21	11 16.3	19.6
312203 2007 VR_{244}	16.0	X	300.31485	314.88009	102.74450	25.16159	0.2129901	0.27777063	2.3263684	21	10 13.7	18.9
312204 2007 VY_{252}	16.8	X	212.49321	346.05981	100.36512	8.44295	0.1173680	0.26460691	2.4028976	21	7 18.4	20.2
312205 2007 VQ_{258}	17.2	X	209.16587	344.84169	116.29935	5.92600	0.1952334	0.26532508	2.3985596	21	7 29.4	20.9
312206 2007 VG_{262}	17.5	X	221.31785	71.36979	102.46717	3.17728	0.1000570	0.28690371	2.2767322	21	11 28.8	20.3
312207 2007 VS_{269}	17.6	X	222.60663	68.49042	18.77880	3.11137	0.1641804	0.26635503	2.3923724	21	7 27.4	21.1
312208 2007 VO_{275}	17.3	X	126.02433	270.78584	234.08338	1.95419	0.0307781	0.25736164	2.4477864	21	6 21.9	20.5
312209 2007 VM_{291}	17.4	X	174.60156	69.34496	100.19167	2.31671	0.1226751	0.26963320	2.3729421	21	9 27.4	20.9
312210 2007 VL_{295}	16.9	X	133.95935	54.01501	327.90689	3.56194	0.0883659	0.23768174	2.5811040	21	1 28.7	20.3
312211 2007 VZ_{296}	16.7	X	220.83424	210.99305	158.69434	7.83840	0.0948723	0.25271490	2.4777006	21	4 19.8	20.3
312212 2007 VV_{300}	17.1	X	236.49508	260.31597	112.32793	5.32124	0.1139221	0.25745858	2.4471718	21	5 8.7	20.6
312213 2007 VS_{313}	16.6	X	335.89054	307.38943	290.55036	5.59757	0.1883405	0.23524402	2.5989045	21	3 3.8	19.7
312214 2007 VN_{314}	17.2	X	140.24991	140.28436	127.77335	5.92098	0.0757314	0.28923856	2.2644631	21	12 29.9	20.4
312215 2007 VQ_{320}	17.0	X	215.42763	107.21672	240.50867	1.41530	0.1269699	0.24639321	2.5199014	21	3 13.7	20.9
312216 2007 VR_{320}	17.3	X	354.20505	157.57550	341.82583	3.83829	0.0977928	0.22267541	2.6958013	21	—	—
312217 2007 VF_{322}	16.9	X	274.06184	3.96271	103.31140	6.78371	0.0640991	0.27933771	2.3176597	21	11 17.3	19.5
312218 2007 VQ_{329}	17.0	X	145.86665	247.15415	228.88567	5.44069	0.0595116	0.25519962	2.4615918	21	6 11.0	20.3
312219 2007 VG_{334}	16.0	X	171.81557	11.49170	102.86387	25.35368	0.2621346	0.25825812	2.4421185	21	7 12.8	20.3
312220 2007 WR_{1}	17.9	X	182.99032	60.19117	56.96407	3.45431	0.1326911	0.26237103	2.4165297	21	7 28.0	21.5
312221 2007 WO_{36}	17.2	X	223.60823	180.60582	279.80375	6.48991	0.0623913	0.26825003	2.3810921	21	8 22.4	20.5
312222 2007 WZ_{39}	17.2	X	215.52745	290.99649	76.26877	12.19520	0.2284648	0.25492756	2.4633428	21	4 11.1	21.6
312223 2007 WK_{55}	17.7	X	180.91028	113.90948	3.87610	2.38824	0.1231185	0.26194429	2.4191535	21	7 26.5	21.2
312224 2007 WM_{60}	16.8	X	27.17038	188.44539	90.69026	7.05979	0.1323990	0.26526186	2.3989407	21	8 27.4	19.3
312225 2007 XP_{1}	17.6	X	168.93195	42.47800	81.85934	3.65337	0.1532636	0.25936468	2.4351674	21	7 22.9	21.4
312226 2007 XR_{10}	17.5	X	125.66668	160.41028	340.60010	2.20806	0.1397731	0.25468710	2.4648931	21	6 29.1	21.0
312227 2007 XQ_{40}	16.1	X	215.25870	319.56101	36.68617	5.06758	0.1904873	0.24638226	2.5199761	21	3 25.4	20.3
312228 2007 XG_{44}	17.4	X	157.53593	353.68159	196.80116	1.79005	0.1364100	0.26900181	2.3766538	21	10 5.6	20.9
312229 2007 XR_{47}	16.1	X	159.56623	297.85130	84.28324	13.55862	0.2694341	0.23866542	2.5740070	21	3 20.6	20.7
312230 2007 XV_{47}	17.2	X	147.22175	1.81748	52.91931	2.42763	0.0554392	0.24037489	2.5617888	21	3 23.9	20.7
312231 2007 XQ_{50}	15.7	X	155.62503	236.13627	106.12228	31.92308	0.1732443	0.23381956	2.6094491	21	1 13.6	19.7
312232 2007 XB_{59}	16.4	X	26.82221	138.33118	296.21199	5.38480	0.0403392	0.21386139	2.7693709	21	—	—
312233 2007 YR_{5}	17.1	X	20.42807	147.21090	40.69646	2.74239	0.0475554	0.24332002	2.5410750	21	3 24.4	20.1
312234 2007 YO_{10}	16.4	X	255.64077	202.44513	36.05999	6.33291	0.0468194	0.22257674	2.6965979	21	—	—
312235 2007 YS_{11}	17.0	X	21.09364	259.50740	306.00027	11.74103	0.2012550	0.23816043	2.5776442	21	4 12.4	19.6
312236 2007 YM_{15}	17.0	X	196.63404	46.98177	324.69016	1.77956	0.0539845	0.24480511	2.5307878	21	3 24.2	20.6
312237 2007 YJ_{17}	16.8	X	253.35330	237.40747	72.81239	5.09104	0.1385414	0.24469828	2.5315243	21	3 7.3	20.6
312238 2007 YM_{26}	17.1	X	140.60261	349.37339	61.85073	5.74118	0.2083126	0.23946559	2.5682698	21	3 30.1	21.1
312239 2007 YY_{26}	16.7	X	109.44896	101.18942	285.51672	12.01976	0.2829553	0.23175911	2.6248924	21	1 30.7	20.2
312240 2007 YJ_{27}	16.6	X	155.84940	131.04478	241.22477	2.39519	0.1852114	0.23715902	2.5848953	21	2 19.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312241 2007 YO_{32}	16.9	X	115.11592	12.73895	91.11355	5.74581	0.1100190	0.24549418	2.5260498	21	4 26.1	20.3
312242 2007 YY_{35}	16.8	X	81.45622	144.58245	313.89815	3.19758	0.0961716	0.23407912	2.6075197	21	2 27.5	19.8
312243 2007 YM_{42}	16.5	X	131.07233	333.19871	91.58009	5.29729	0.2093132	0.23913000	2.5706720	21	4 6.9	20.4
312244 2007 YP_{42}	15.9	X	119.74126	284.45338	111.39848	26.95471	0.1143386	0.22955833	2.6416423	21	2 3.7	19.6
312245 2007 YM_{48}	17.7	X	229.42506	288.44885	111.81149	2.27900	0.1874677	0.25869128	2.4393916	21	5 30.6	21.5
312246 2007 YU_{48}	17.1	X	27.75813	225.90912	289.46616	0.78313	0.1402913	0.23247772	2.6194804	21	2 18.6	19.6
312247 2007 YO_{49}	15.8	X	358.64253	36.55688	296.57374	9.07076	0.0698218	0.19173064	2.9785739	21	9 4.6	19.7
312248 2007 YC_{59}	16.7	X	89.78427	37.65916	51.53720	3.89668	0.1564280	0.23530473	2.5984574	21	3 11.1	19.8
312249 2007 YK_{69}	16.5	X	96.97178	353.89746	94.96664	6.04486	0.1183255	0.23580715	2.5947652	21	3 16.2	19.8
312250 2007 YR_{70}	17.4	X	110.58597	12.36754	90.50238	0.91309	0.0998648	0.23842576	2.5757315	21	4 16.1	20.6
312251 2008 AP	16.2	X	40.72726	352.78297	99.45152	10.53652	0.0609160	0.22213051	2.7002081	21	—	—
312252 2008 AB_{1}	16.2	X	9.25195	48.50146	102.73748	14.45176	0.0788288	0.22682503	2.6628216	21	1 18.1	19.3
312253 2008 AC_{1}	16.2	X	181.85369	355.28423	41.31777	14.46352	0.1841183	0.24399994	2.5363523	21	4 16.5	20.3
312254 2008 AL_{2}	16.2	X	246.39638	200.20463	118.34123	15.56212	0.1212393	0.23810689	2.5780306	21	3 15.4	20.3
312255 2008 AY_{2}	16.1	X	115.69343	215.66847	133.74235	6.93221	0.0206594	0.21547652	2.7555148	21	—	—
312256 2008 AA_{6}	17.2	X	227.80731	44.50724	94.06915	4.74872	0.1095195	0.27757752	2.3274473	21	10 19.4	20.2
312257 2008 AM_{11}	17.0	X	69.97921	308.81448	143.90006	4.15668	0.1105071	0.22923876	2.6440968	21	2 5.4	19.8
312258 2008 AE_{13}	16.2	X	273.32298	352.88033	286.35509	12.52235	0.1183030	0.23307935	2.6149709	21	2 13.8	20.3
312259 2008 AR_{20}	16.9	X	10.31093	196.72562	333.58988	5.06629	0.1074080	0.22774161	2.6556721	21	2 11.9	19.9
312260 2008 AG_{22}	16.4	X	43.80246	128.67820	329.64349	8.10299	0.2182546	0.22381530	2.6866404	21	1 4.9	18.8
312261 2008 AM_{25}	16.9	X	146.78149	308.64955	91.93699	3.72748	0.0859150	0.23215037	2.6219423	21	3 10.6	20.6
312262 2008 AK_{26}	16.3	X	86.66134	108.77123	325.85796	8.59557	0.0564755	0.22610303	2.6684872	21	2 1.6	19.7
312263 2008 AZ_{27}	16.0	X	41.49625	331.85795	148.35290	13.63178	0.1124871	0.22239606	2.6980583	21	1 27.4	19.0
312264 2008 AB_{28}	17.0	X	348.77545	132.40170	6.72050	2.44834	0.1299291	0.21497101	2.7598329	21	—	—
312265 2008 AF_{29}	16.5	X	183.25002	311.87609	98.29252	16.02745	0.1291771	0.24544369	2.5263963	21	5 7.2	20.7
312266 2008 AW_{33}	17.0	X	121.70352	311.73237	117.01751	4.37303	0.2283077	0.23659894	2.5889730	21	4 4.2	20.8
312267 2008 AF_{34}	17.2	X	130.89766	104.09319	326.06358	1.59009	0.1687545	0.23868213	2.5738868	21	4 5.6	21.1
312268 2008 AU_{39}	16.7	X	86.79319	289.08634	108.25712	5.15426	0.1207425	0.22074923	2.7114603	21	—	—
312269 2008 AY_{64}	16.0	X	314.47528	347.07565	299.90608	14.25727	0.1292062	0.24100495	2.5573219	21	4 10.4	19.6
312270 2008 AQ_{71}	17.1	X	103.36757	20.78682	90.41076	5.30761	0.1451939	0.23960259	2.5672907	21	4 26.4	20.5
312271 2008 AO_{90}	16.9	X	356.67656	44.38837	139.60358	4.70293	0.1297153	0.23001133	2.6381727	21	2 4.4	20.0
312272 2008 AE_{96}	17.1	X	164.25734	356.74539	67.49116	4.56138	0.1014394	0.24260878	2.5460390	21	4 29.0	20.8
312273 2008 AE_{100}	17.1	X	88.87706	293.90083	237.30635	3.74183	0.1693338	0.24385127	2.5373830	21	6 29.6	20.4
312274 2008 AD_{106}	16.4	X	175.04626	240.26145	95.95616	11.43122	0.0923555	0.22920731	2.6443387	21	1 20.7	20.3
312275 2008 AN_{108}	16.8	X	141.66230	108.60483	287.24630	6.34214	0.1973672	0.23560893	2.5962204	21	3 5.8	20.9
312276 2008 AV_{108}	16.7	X	38.59964	148.63177	284.04034	2.11334	0.0714552	0.21848002	2.7302028	21	—	—
312277 2008 AT_{111}	17.5	X	129.79312	73.98646	351.57165	4.02290	0.2556913	0.23746634	2.5826646	21	4 7.9	21.4
312278 2008 AE_{116}	16.7	X	47.11879	172.21937	275.05974	3.91087	0.0852964	0.22066055	2.7121867	21	—	—
312279 2008 AZ_{116}	16.5	X	6.18428	123.14409	106.13481	15.83517	0.0637371	0.24374556	2.5381167	21	5 5.5	19.8
312280 2008 AR_{127}	17.6	X	144.49959	270.28071	186.60439	1.15182	0.0860275	0.24545277	2.5263339	21	5 17.4	21.0
312281 2008 AR_{128}	17.0	X	72.49784	244.74356	275.78423	8.16074	0.1255711	0.23915354	2.5705033	21	5 13.6	20.2
312282 2008 AN_{137}	16.7	X	101.78383	310.31644	108.76902	7.80776	0.2743023	0.23008494	2.6376101	21	3 8.4	20.3
312283 2008 BS_{13}	16.1	X	331.78870	322.30786	302.80665	13.20515	0.1124663	0.24062764	2.5599946	21	4 9.8	19.5
312284 2008 BX_{15}	16.5	X	143.64011	282.41774	129.16348	12.81144	0.1765663	0.23759674	2.5817196	21	4 2.1	20.6
312285 2008 BX_{19}	16.5	X	273.24151	333.84858	295.69963	7.32944	0.0213787	0.23327818	2.6134847	21	2 15.2	20.0
312286 2008 BR_{20}	16.0	X	10.04347	11.25841	129.44423	14.85900	0.1897885	0.22323385	2.6913036	21	—	—
312287 2008 BS_{20}	16.8	X	339.13982	215.65425	339.52195	2.38607	0.1086553	0.22322608	2.6913660	21	1 28.4	20.0
312288 2008 BP_{21}	16.0	X	24.04095	7.34480	332.80265	9.71773	0.0830540	0.19029903	2.9934936	21	10 22.1	20.1
312289 2008 BV_{37}	15.9	X	57.94610	321.68533	323.27498	10.18660	0.1468449	0.18509631	3.0493285	21	10 6.4	20.2
312290 2008 BQ_{38}	17.0	X	74.83953	282.38696	169.26336	3.77130	0.0692234	0.22473717	2.6792883	21	2 7.2	20.2
312291 2008 BE_{39}	16.9	X	102.91260	126.34572	323.49790	12.16753	0.1627493	0.23552966	2.5968028	21	3 23.5	20.5
312292 2008 BV_{44}	16.4	X	104.89341	350.28792	82.60352	7.36468	0.2009915	0.23319750	2.6140875	21	3 19.8	20.0
312293 2008 BL_{52}	16.8	X	90.16400	272.49833	130.91502	3.54945	0.1084464	0.21941359	2.7224528	21	1 4.5	20.2
312294 2008 CE_{1}	16.4	X	22.74356	56.45191	133.41612	15.67456	0.0629966	0.23312606	2.6146215	21	4 6.6	19.9
312295 2008 CY_{1}	16.2	X	26.27134	267.96631	254.66060	10.85351	0.1296523	0.23023044	2.6364987	21	2 21.0	19.3
312296 2008 CK_{7}	16.7	X	235.38918	231.75449	341.73057	3.65428	0.0443809	0.20953636	2.8073493	21	—	—
312297 2008 CW_{14}	16.4	X	299.22767	58.96083	109.10878	5.67397	0.0939186	0.21082935	2.7958595	21	—	—
312298 2008 CQ_{17}	17.3	X	58.95108	322.79602	159.10106	7.19540	0.1304364	0.22771218	2.6559009	21	3 1.9	20.1
312299 2008 CH_{19}	16.0	X	323.45044	66.25126	104.63855	14.91320	0.0674812	0.21959435	2.7209586	21	—	—
312300 2008 CR_{37}	16.2	X	346.83778	308.02988	168.74721	9.18334	0.1150766	0.21267172	2.7796891	21	—	—
312301 2008 CY_{44}	17.1	X	77.22044	33.04095	83.57085	3.45414	0.1607636	0.23023295	2.6364795	21	3 30.7	20.1
312302 2008 CK_{49}	16.5	X	164.73661	15.02442	26.17171	4.89800	0.2876472	0.24097545	2.5575307	21	4 10.2	20.9
312303 2008 CP_{50}	16.0	X	28.63852	6.89677	86.83232	4.62662	0.0737489	0.21712784	2.7415261	21	—	—
312304 2008 CB_{51}	17.1	X	129.02918	279.43507	92.32165	7.06356	0.1524008	0.22904220	2.6456093	21	1 20.7	20.7
312305 2008 CM_{54}	16.8	X	13.27352	58.04925	181.27234	5.74501	0.2006695	0.23979610	2.5659093	21	5 27.8	18.9
312306 2008 CQ_{62}	17.0	X	349.64223	97.62121	125.71551	6.72693	0.1157046	0.23320226	2.6140519	21	3 23.2	20.0
312307 2008 CJ_{64}	16.6	X	292.65254	272.92754	297.26012	6.34066	0.1602954	0.21750496	2.7383562	21	—	—
312308 2008 CJ_{67}	16.7	X	38.58635	149.70342	320.25897	5.24830	0.0890605	0.22102738	2.7091850	21	1 10.6	19.8
312309 2008 CF_{71}	17.1	X	34.97144	241.00497	227.32528	2.10464	0.1586741	0.22326973	2.6910152	21	—	—
312310 2008 CP_{71}	17.2	X	79.50599	86.79508	75.02260	5.28658	0.1491474	0.24121220	2.5558569	21	5 31.6	20.3
312311 2008 CD_{72}	15.8	X	36.78576	167.44152	337.54326	9.06517	0.1353819	0.22462423	2.6801863	21	2 23.5	18.7
312312 2008 CK_{80}	16.8	X	148.82044	306.25286	96.31426	4.67576	0.1313989	0.23248815	2.6194020	21	3 20.7	20.7
312313 2008 CL_{84}	16.9	X	97.24142	164.49704	241.18228	3.92461	0.1860205	0.22577030	2.6711084	21	1 26.5	20.1
312314 2008 CB_{85}	16.7	X	42.36291	290.61733	140.53458	3.63290	0.2120013	0.21683111	2.7440266	21	—	—
312315 2008 CT_{88}	17.0	X	49.33906	59.77195	107.69321	5.97010	0.1461494	0.23288035	2.6164603	21	4 22.6	19.8
312316 2008 CG_{117}	15.9	X	289.74129	158.89237	84.91029	10.75340	0.0819289	0.22445984	2.6814948	21	1 31.8	19.7
312317 2008 CQ_{117}	16.6	X	62.10366	310.37276	150.96677	6.21777	0.2015354	0.22767249	2.6562096	21	2 14.8	19.2
312318 2008 CJ_{120}	15.8	X	282.92167	91.13302	102.79030	12.15943	0.1675248	0.21249662	2.7812158	21	—	—
312319 2008 CU_{122}	17.0	X	110.48113	135.16621	310.11011	3.24672	0.1583186	0.23416845	2.6068565	21	3 30.7	20.5
312320 2008 CM_{123}	16.9	X	156.50724	181.04621	170.61245	2.41705	0.0611658	0.22192538	2.7018718	21	1 16.3	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312321 2008 CY_{127}	16.9	X	151.22235	46.42878	324.78076	5.32313	0.0677820	0.22439032	2.6820486	21	2 4.5	20.8
312322 2008 CZ_{127}	16.7	X	306.89419	172.01591	329.78397	2.91915	0.0394487	0.20862194	2.8155467	21	—	—
312323 2008 CP_{135}	16.8	X	348.13786	350.29297	160.94613	4.76406	0.0827367	0.21978636	2.7193737	21	—	—
312324 2008 CA_{138}	16.1	X	350.45584	341.19928	137.70269	9.58963	0.0687579	0.21208779	2.7847889	21	—	—
312325 2008 CK_{144}	15.9	X	357.10376	145.92439	332.08283	12.29975	0.1069181	0.21655794	2.7463337	21	—	—
312326 2008 CJ_{155}	16.2	X	74.96297	202.58819	116.60346	9.86587	0.0824579	0.19590422	2.9361181	21	12 6.7	20.5
312327 2008 CA_{159}	16.5	X	33.96169	298.77650	193.59635	7.23117	0.2580059	0.22520702	2.6755605	21	1 27.9	18.5
312328 2008 CE_{161}	15.6	X	39.18610	11.10551	331.11703	9.22614	0.0433341	0.19094535	2.9867347	21	11 10.1	19.9
312329 2008 CE_{162}	17.1	X	187.21880	264.63994	132.47652	7.47467	0.2560270	0.24616060	2.5214886	21	4 23.4	21.6
312330 2008 CF_{169}	16.1	X	285.68917	120.92062	94.05473	7.60077	0.0705105	0.21910691	2.7249926	21	—	—
312331 2008 CQ_{172}	17.2	X	239.76631	34.91620	264.38731	2.95037	0.0732763	0.22555384	2.6728170	21	2 10.9	21.2
312332 2008 CU_{176}	16.0	X	90.57065	6.64091	99.81344	15.29232	0.0720518	0.23264178	2.6182488	21	3 29.4	19.7
312333 2008 CA_{177}	16.0	X	193.47382	94.87017	324.97951	21.20316	0.0683057	0.24112940	2.5564420	21	5 17.6	20.2
312334 2008 CJ_{178}	16.1	X	351.74339	147.67171	112.82861	11.44506	0.0192534	0.24390752	2.5369930	21	5 25.1	19.5
312335 2008 CQ_{179}	15.5	X	241.48810	264.36108	294.32305	13.57127	0.1109353	0.20675172	2.8325002	21	—	—
312336 2008 CH_{182}	16.5	X	150.60599	314.79140	114.36027	8.63426	0.1332250	0.23688063	2.5869201	21	4 26.5	20.5
312337 2008 CQ_{184}	16.3	X	65.95126	51.94785	81.72854	32.10085	0.2935972	0.23240941	2.6199937	21	5 10.9	19.8
312338 2008 CK_{191}	17.4	X	88.14963	209.82250	256.47531	2.23467	0.0442969	0.23045346	2.6347974	21	3 12.3	20.8
312339 2008 CC_{202}	16.5	X	160.88224	213.30539	129.90710	6.15258	0.0509952	0.22032746	2.7149196	21	1 10.3	20.3
312340 2008 CJ_{205}	16.8	X	140.95068	31.25238	348.86686	5.53865	0.0750912	0.22312345	2.6921912	21	2 5.7	20.5
312341 2008 CA_{211}	16.5	X	158.54356	23.20016	308.56087	3.47334	0.0715503	0.21229267	2.7829969	21	—	—
312342 2008 CT_{212}	16.1	X	334.63317	326.03605	64.36976	4.47579	0.0376121	0.18700507	3.0285433	21	10 19.1	20.1
312343 2008 CD_{213}	17.0	X	90.37357	11.26923	99.81028	4.96137	0.1889070	0.23349696	2.6118520	21	4 16.6	20.3
312344 2008 CO_{214}	16.4	X	45.30747	260.58145	151.06074	7.03491	0.0332000	0.21089708	2.7952609	21	—	—
312345 2008 DS_{2}	16.9	X	123.54798	253.00337	165.24346	4.32975	0.2036979	0.23418245	2.6067526	21	3 19.4	20.5
312346 2008 DT_{2}	16.8	X	316.70499	106.85279	117.52390	3.71373	0.0089858	0.22935451	2.6432071	21	2 18.1	20.2
312347 2008 DA_{3}	16.8	X	129.94709	213.22507	132.35003	7.00186	0.0319142	0.21604710	2.7506611	21	—	—
312348 2008 DB_{4}	16.1	X	109.43659	114.39381	330.26745	14.77074	0.1183015	0.23311451	2.6147079	21	3 18.9	19.7
312349 2008 DE_{4}	16.4	X	328.26331	248.86552	335.85807	11.60777	0.0330933	0.23106288	2.6301626	21	2 28.6	19.7
312350 2008 DE_{14}	16.4	X	52.59930	272.17815	140.55149	14.48302	0.1330702	0.21408683	2.7674264	21	—	—
312351 2008 DH_{16}	16.1	X	144.11607	76.11915	147.50312	2.85844	0.1069410	0.18573355	3.0423498	21	10 25.9	20.8
312352 2008 DH_{19}	16.6	X	144.54339	11.57366	46.43049	7.13695	0.1593131	0.23740623	2.5831005	21	4 6.6	20.5
312353 2008 DV_{21}	16.9	X	345.95336	64.02133	42.44809	5.00854	0.0684850	0.20913362	2.8109523	21	—	—
312354 2008 DC_{23}	15.9	X	359.52260	326.87853	290.17761	10.76324	0.2941467	0.23264687	2.6182106	21	5 10.2	17.8
312355 2008 DD_{23}	16.3	X	45.36377	210.80946	305.48941	12.36429	0.2009705	0.22896392	2.6462123	21	3 24.7	19.1
312356 2008 DU_{30}	16.5	X	118.06281	81.42835	317.11376	10.83644	0.0619293	0.22665373	2.6641630	21	1 28.6	19.9
312357 2008 DY_{45}	15.9	X	286.21629	127.53716	84.75883	12.94290	0.0909614	0.21663965	2.7456431	21	—	—
312358 2008 DN_{46}	16.1	X	50.02454	36.00691	67.76489	6.18464	0.0633782	0.22188758	2.7021786	21	1 19.7	19.4
312359 2008 DQ_{46}	16.5	X	335.21170	160.44857	10.87946	10.27035	0.1487452	0.21534563	2.7566312	21	—	—
312360 2008 DX_{46}	16.8	X	5.85655	18.82000	158.19803	8.53814	0.2097486	0.22251826	2.6970703	21	2 2.6	19.5
312361 2008 DY_{57}	16.4	X	65.42513	267.93307	231.67570	11.64834	0.2044978	0.23103829	2.6303492	21	4 15.1	19.4
312362 2008 DV_{59}	16.2	X	285.53497	358.18791	191.47828	9.14064	0.1155647	0.21193747	2.7861055	21	—	—
312363 2008 DQ_{61}	16.6	X	29.33607	342.67738	15.09927	5.12890	0.0374811	0.19379966	2.9573362	21	11 18.8	20.7
312364 2008 DD_{73}	17.0	X	95.91001	266.58482	146.35955	5.41381	0.1172079	0.22187758	2.7022598	21	1 25.3	20.5
312365 2008 DR_{81}	16.2	X	43.40718	121.30706	184.87225	4.39011	0.0643902	0.18112938	3.0936899	21	10 6.8	20.3
312366 2008 DD_{84}	16.2	X	27.92787	107.40836	11.66191	12.78032	0.1347894	0.21838994	2.7309534	21	1 6.0	19.5
312367 2008 DL_{89}	16.2	X	353.20466	345.89281	138.48608	4.49474	0.0454391	0.21099723	2.7943762	21	—	—
312368 2008 EF_{5}	15.4	X	256.34554	6.02735	128.20306	11.96653	0.0701685	0.19270164	2.9685596	21	11 13.9	19.7
312369 2008 ET_{5}	16.6	X	18.86934	192.35613	294.10368	2.52536	0.2101696	0.21960330	2.7208847	21	—	—
312370 2008 EV_{8}	16.2	X	341.84220	287.47482	96.99858	10.85403	0.0870600	0.18943453	3.0025941	21	10 25.9	20.1
312371 2008 EA_{15}	16.2	X	311.94299	53.09462	14.45749	4.77740	0.1576560	0.19135631	2.9824570	21	10 23.8	19.4
312372 2008 EK_{21}	16.2	X	350.43752	59.05934	84.09611	7.29287	0.0387078	0.21440602	2.7646792	21	—	—
312373 2008 EH_{23}	15.9	X	213.70634	158.91189	53.30459	9.98704	0.1229147	0.19925383	2.9031196	21	12 18.4	20.3
312374 2008 EW_{27}	15.6	X	116.42106	125.93992	120.28265	12.20727	0.0669709	0.18553624	3.0445063	21	10 26.6	20.3
312375 2008 EE_{37}	16.6	X	111.01345	70.91779	295.64233	5.25637	0.0257987	0.21734507	2.7396990	21	—	—
312376 2008 EB_{48}	17.0	X	348.71116	109.01652	39.23643	2.82013	0.1238812	0.21234530	2.7825370	21	—	—
312377 2008 ES_{48}	17.2	X	26.80584	339.05452	120.58954	3.15644	0.1602055	0.21990046	2.7184329	21	—	—
312378 2008 EN_{50}	16.6	X	167.11983	234.34949	29.48389	2.53015	0.0119283	0.20279099	2.8692625	21	—	—
312379 2008 EK_{69}	16.9	X	63.01177	71.12824	73.82220	12.28059	0.2365237	0.23276532	2.6173222	21	4 30.4	19.7
312380 2008 EB_{70}	16.1	X	33.30297	41.45436	72.82239	15.34080	0.0673596	0.21837755	2.7310567	21	1 8.6	19.6
312381 2008 ED_{75}	16.6	X	249.12382	103.21780	146.04304	4.76556	0.0312257	0.21243101	2.7817885	21	—	—
312382 2008 EW_{88}	16.5	X	84.25737	40.26055	79.62724	7.30435	0.1270782	0.23324305	2.6137472	21	4 11.1	19.8
312383 2008 EW_{92}	15.7	X	179.12026	144.90769	61.35709	11.42865	0.0476857	0.19219836	2.9737395	21	11 11.7	20.1
312384 2008 EE_{117}	16.9	X	22.97518	259.56270	165.89260	2.29314	0.0526686	0.20237097	2.8732312	21	—	—
312385 2008 EO_{120}	16.7	X	79.80249	290.01373	176.82763	13.06287	0.2406767	0.22835391	2.6509228	21	4 3.2	19.8
312386 2008 EU_{136}	16.6	X	284.59829	48.55571	166.02337	6.34238	0.0228949	0.21228165	2.7830932	21	—	—
312387 2008 EX_{138}	16.0	X	97.59564	42.53857	210.30719	9.72844	0.0665201	0.18025756	3.1036570	21	10 6.4	20.5
312388 2008 EA_{141}	16.6	X	26.63947	161.67649	299.91075	3.08711	0.0641160	0.21244313	2.7816827	21	—	—
312389 2008 EG_{142}	16.0	X	13.69494	65.43519	314.85495	7.69558	0.0950986	0.19154002	2.9805496	21	12 2.3	19.9
312390 2008 ER_{147}	16.5	X	81.54552	248.71343	172.23802	6.34238	0.0365309	0.21476854	2.7615672	21	1 6.8	20.1
312391 2008 EO_{151}	16.9	X	329.99215	191.22833	355.15195	5.18085	0.0273918	0.21861570	2.7290730	21	1 17.9	20.5
312392 2008 EF_{158}	16.4	X	241.66819	69.27676	191.64379	12.02079	0.1782881	0.21156339	2.7893887	21	—	—
312393 2008 EE_{162}	15.5	X	81.63970	116.29279	140.57896	10.98932	0.1069524	0.17682910	3.1436454	21	10 2.3	20.1
312394 2008 EO_{165}	15.4	X	72.98826	201.86448	100.81519	10.93349	0.0751131	0.18987323	2.9979673	21	11 14.5	19.8
312395 2008 EQ_{166}	16.1	X	334.95063	36.21800	94.80374	10.00155	0.1039038	0.20911561	2.8111137	21	—	—
312396 2008 EQ_{167}	16.3	X	55.63130	27.33603	106.36519	12.40352	0.1720983	0.22525671	2.6751670	21	3 24.6	19.4
312397 2008 FE_{4}	15.9	X	137.04157	238.01131	344.45580	8.68241	0.0589370	0.18596455	3.0398298	21	10 11.4	20.6
312398 2008 FN_{13}	16.4	X	248.95320	88.61479	45.84648	2.89999	0.0536877	0.19038769	2.9925642	21	11 2.9	20.4
312399 2008 FX_{14}	15.2	X	181.41973	105.36421	8.16491	17.34800	0.1584416	0.17454342	3.1710303	21	7 24.8	20.7
312400 2008 FG_{23}	15.5	X	242.75648	332.52055	173.92501	13.32894	0.0914647	0.19016248	2.9949265	21	11 7.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312401 2008 FB_{40}	16.5	X	184.40370	73.36960	99.24882	2.77392	0.0959708	0.18291981	3.0734693	21	10 4.7	21.2
312402 2008 FD_{48}	16.4	X	304.51198	23.84604	28.95887	3.56204	0.0189396	0.18339021	3.0682114	21	10 6.9	20.5
312403 2008 FY_{51}	16.3	X	141.35646	26.37572	177.44948	9.34548	0.0866942	0.18025138	3.1037279	21	9 27.6	21.0
312404 2008 FO_{52}	16.6	X	182.19783	74.79414	78.56386	2.34431	0.1185547	0.17971525	3.1098977	21	9 8.1	21.5
312405 2008 FD_{56}	16.4	X	343.87707	122.35119	20.01923	9.85928	0.1431530	0.21085143	2.7956643	21	—	—
312406 2008 FJ_{56}	17.1	X	324.73214	0.63044	146.03970	7.97138	0.1506610	0.20983218	2.8047101	21	—	—
312407 2008 FC_{69}	16.6	X	256.03234	326.33139	181.25446	7.08394	0.1016527	0.19142313	2.9817629	21	11 22.4	20.7
312408 2008 FN_{71}	16.0	X	332.42140	178.99723	169.28271	10.20369	0.1421750	0.17893251	3.1189606	21	8 12.2	19.8
312409 2008 FZ_{74}	16.0	X	44.74742	266.31605	82.74307	7.00956	0.0632908	0.18915368	3.0055655	21	12 1.9	20.2
312410 2008 FH_{89}	16.7	X	91.64758	96.49514	347.58133	3.44506	0.0631562	0.23022211	2.6365622	21	2 20.4	20.0
312411 2008 FH_{100}	15.4	X	81.15368	260.63582	41.63009	22.60274	0.0796959	0.18354791	3.0664537	21	11 16.5	19.9
312412 2008 FK_{106}	16.4	X	195.05351	110.33228	147.82065	6.53536	0.0502105	0.19952807	2.9004589	21	—	—
312413 2008 FS_{112}	16.2	X	188.50221	103.83034	63.34861	8.60787	0.0658822	0.18180665	3.0860020	21	10 6.2	20.9
312414 2008 FH_{125}	16.1	X	230.73425	299.81627	188.65238	12.03975	0.0764602	0.18305903	3.0719109	21	9 30.7	20.6
312415 2008 GZ_{4}	17.0	X	85.72943	318.53659	106.11854	3.77470	0.1667543	0.22208322	2.7005914	21	2 3.0	20.2
312416 2008 GT_{6}	16.4	X	208.09320	91.87231	51.78672	6.04018	0.1008023	0.18104498	3.0946513	21	9 24.7	21.1
312417 2008 GU_{6}	16.1	X	235.91021	118.84141	71.49772	3.63588	0.0247930	0.19430435	2.9522131	21	12 29.8	20.3
312418 2008 GR_{7}	16.5	X	326.20295	264.18405	255.49032	6.58870	0.2261565	0.21218520	2.7839365	21	—	—
312419 2008 GL_{19}	15.4	X	346.03204	314.98287	148.19737	10.17958	0.0543916	0.20058488	2.8902623	21	—	—
312420 2008 GU_{26}	15.2	X	106.32273	175.19055	89.75686	18.52578	0.1727021	0.18038876	3.1021520	21	11 15.6	20.3
312421 2008 GF_{27}	15.9	X	183.52693	214.14811	342.32264	9.52069	0.0472299	0.19097806	2.9863937	21	10 30.5	20.5
312422 2008 GR_{48}	16.1	X	347.15901	264.74264	90.01360	3.73160	0.1351180	0.18398559	3.0615886	21	9 21.6	19.6
312423 2008 GV_{60}	16.5	X	107.56869	321.87317	178.50351	12.18805	0.1388149	0.23522639	2.5990344	21	6 8.3	20.4
312424 2008 GC_{63}	16.0	X	176.34116	197.61197	6.73292	6.93049	0.1016175	0.18660624	3.0328570	21	10 31.6	20.8
312425 2008 GE_{88}	15.8	X	30.49764	283.95914	34.70699	11.00239	0.0776996	0.17768234	3.1335734	21	10 8.6	19.9
312426 2008 GL_{91}	16.1	X	59.18778	122.23740	195.10584	9.92561	0.0982139	0.18242235	3.0790543	21	11 15.8	20.4
312427 2008 GJ_{94}	16.3	X	348.53287	262.26958	119.70018	3.77505	0.0261926	0.18443374	3.0566272	21	10 26.9	20.4
312428 2008 GP_{98}	15.9	X	209.23878	65.34867	110.14338	7.13015	0.0427309	0.18328102	3.0694299	21	11 8.8	20.4
312429 2008 GQ_{110}	14.8	X	43.19090	194.23404	80.01032	29.68989	0.1711135	0.17235341	3.1978356	21	9 28.0	19.7
312430 2008 GS_{116}	15.7	X	256.77089	41.96472	64.86460	11.77468	0.1264547	0.18314049	3.0709999	21	10 4.0	20.2
312431 2008 GC_{123}	16.9	X	287.50831	88.58263	123.03808	5.34072	0.0139726	0.21275934	2.7789259	21	—	—
312432 2008 GX_{131}	17.3	X	335.79248	42.73003	115.55054	7.24913	0.2422563	0.21035425	2.8000676	21	—	—
312433 2008 GW_{143}	15.6	X	75.02272	105.52590	209.04333	8.94837	0.0489583	0.18397546	3.0617010	21	11 24.2	19.9
312434 2008 HG_{18}	15.8	X	117.96670	33.87039	176.12448	11.74516	0.0749862	0.17208176	3.2012001	21	9 7.3	20.5
312435 2008 HA_{19}	16.0	X	358.89238	49.21555	20.04473	9.27708	0.1599263	0.19889584	2.9066021	21	—	—
312436 2008 HY_{20}	16.5	X	330.33989	133.63876	54.19851	11.34038	0.2886748	0.21417198	2.7666929	21	—	—
312437 2008 HW_{22}	16.9	X	10.91519	201.86288	336.77623	2.01052	0.2021273	0.22271117	2.6955127	21	2 17.7	19.2
312438 2008 HH_{28}	16.2	X	277.27419	237.12819	227.98330	7.98123	0.1632798	0.19036201	2.9928333	21	10 16.4	20.1
312439 2008 HO_{32}	16.3	X	330.17020	186.98530	190.26660	9.41337	0.0892407	0.17454171	3.1710511	21	9 19.9	20.4
312440 2008 HF_{48}	16.8	X	269.30852	35.23690	53.76975	2.21351	0.0770118	0.18353633	3.0665828	21	9 29.4	21.0
312441 2008 HN_{59}	15.6	X	277.67277	238.86304	63.38061	6.59648	0.0856441	0.14796972	3.5401431	21	4 9.5	20.7
312442 2008 HF_{60}	15.8	X	129.58941	134.46821	138.01848	10.45323	0.0391309	0.18533455	3.0467148	21	12 5.9	20.4
312443 2008 HS_{69}	16.2	X	311.71399	61.05278	58.11131	8.29620	0.1842138	0.19671979	2.9279974	21	—	—
312444 2008 JN_{3}	15.4	X	120.03130	172.57330	98.49323	18.78734	0.2093070	0.18071590	3.0984070	21	12 3.9	20.7
312445 2008 JV_{3}	15.6	X	118.30146	121.90086	81.33853	12.61683	0.1554409	0.17005279	3.2266129	21	9 13.7	20.9
312446 2008 JL_{8}	16.4	X	336.09747	320.75937	243.00620	6.46559	0.2475893	0.21845078	2.7304463	21	1 13.3	19.9
312447 2008 JN_{22}	16.1	X	44.30391	257.71117	296.86449	11.74086	0.2013413	0.23127103	2.6285842	21	5 26.4	18.9
312448 2008 JH_{25}	15.4	X	111.29731	192.55877	48.75210	9.66897	0.0456657	0.17467944	3.1693839	21	10 9.5	20.0
312449 2008 JA_{34}	15.9	X	239.13908	314.44106	181.95548	9.49365	0.0449572	0.18029635	3.1032119	21	10 25.7	20.3
312450 2008 KG_{9}	15.9	X	119.56510	42.35298	227.87144	9.58480	0.0129733	0.18225211	3.0809714	21	11 18.1	20.3
312451 2008 KP_{13}	15.6	X	190.80382	33.14101	130.51464	13.34018	0.0937510	0.17775611	3.1327063	21	10 3.5	20.6
312452 2008 KE_{29}	16.1	X	258.45486	32.79288	97.28566	12.31184	0.0332963	0.18354475	3.0664890	21	11 14.7	20.5
312453 2008 KA_{37}	15.6	X	318.54256	321.12152	129.78644	11.13990	0.0797571	0.18543325	3.0456335	21	12 10.1	19.6
312454 2008 KO_{40}	15.7	X	337.21638	257.23151	92.37557	10.05312	0.0915863	0.16923202	3.2370372	21	8 30.2	19.9
312455 2008 KV_{41}	16.2	X	167.31837	306.43961	229.63433	9.81873	0.1044917	0.17556399	3.1587294	21	9 16.1	21.3
312456 2008 LM_{2}	15.8	X	352.25809	195.60505	140.06765	9.87863	0.0825132	0.16951493	3.2334345	21	9 1.9	19.9
312457 2008 QH_{42}	12.8	X	347.21289	232.29826	170.86535	15.85067	0.0922100	0.08097587	5.2913397	21	11 5.0	19.4
312458 2008 QS_{42}	13.9	X	332.70588	195.34562	229.14922	3.72893	0.0528388	0.08174788	5.2579733	21	11 8.1	20.6
312459 2008 QG_{44}	12.6	X	43.05351	232.98699	119.90426	24.06019	0.0891757	0.08273162	5.2162097	21	11 25.6	19.6
312460 2008 QO_{44}	15.6	X	218.43382	233.61541	355.25069	13.22215	0.1505899	0.17771364	3.1332054	21	—	—
312461 2008 RK_{14}	13.4	X	41.37645	55.65169	302.33556	6.25478	0.0301241	0.08476314	5.1325283	21	11 14.4	20.2
312462 2008 RG_{17}	14.0	X	313.42074	129.19920	324.20491	5.68399	0.0615792	0.08421248	5.1548783	21	11 14.6	20.6
312463 2008 RZ_{20}	12.9	X	35.37492	13.94804	344.21466	8.51123	0.0620087	0.08335064	5.1903514	21	11 9.5	19.7
312464 2008 RD_{46}	13.9	X	359.61973	243.53485	156.98908	4.15272	0.0800044	0.08274865	5.2154937	21	11 16.6	20.4
312465 2008 RJ_{109}	13.9	X	356.27011	226.26047	170.50370	3.16462	0.0862544	0.08324367	5.1947968	21	11 8.1	20.4
312466 2008 RZ_{122}	13.6	X	162.94050	310.00773	278.52830	4.59426	0.0519369	0.08185188	5.2535186	21	11 3.5	20.7
312467 2008 SH_{50}	13.7	X	308.45151	92.94767	4.00456	5.42393	0.0599130	0.08362383	5.1790410	21	11 12.9	20.3
312468 2008 SY_{61}	14.0	X	335.27380	257.98700	149.21311	8.29328	0.0540738	0.08601320	5.0826786	21	10 26.4	20.6
312469 2008 SN_{83}	13.9	X	348.82403	291.72102	114.61845	0.66193	0.1029923	0.08267795	5.2184667	21	11 8.1	20.3
312470 2008 SQ_{134}	17.5	X	180.97463	264.37979	192.79714	21.09114	0.0576198	0.36564593	1.9368481	21	6 25.4	20.3
312471 2008 ST_{153}	12.8	X	349.87650	36.44315	7.15135	11.10192	0.0967044	0.08223234	5.2373021	21	11 3.2	19.3
312472 2008 SX_{216}	13.9	X	298.82867	173.84347	288.83280	7.72587	0.0565023	0.08212527	5.2418529	21	11 7.1	20.7
312473 2008 SX_{245}	18.4	X	124.94114	292.96330	208.98722	11.82262	0.4580504	0.35020384	1.9933740	21	7 20.8	22.4
312474 2008 SP_{252}	13.2	X	17.90696	190.54703	181.39123	6.99717	0.0733533	0.08096237	5.2919277	21	11 8.1	19.9
312475 2008 SW_{275}	14.1	X	5.03564	241.57891	144.46286	5.08192	0.0400506	0.07942438	5.3600253	21	11 6.2	20.9
312476 2008 SJ_{277}	13.1	X	351.63290	16.66305	17.72205	24.15272	0.0371822	0.08062021	5.3068903	21	10 24.5	20.0
312477 2008 SD_{278}	13.9	X	25.47867	103.51129	269.73800	6.57938	0.0692210	0.08350803	5.1838276	21	11 16.7	20.5
312478 2008 SN_{293}	13.2	X	1.63508	265.03916	137.17632	9.40345	0.0898880	0.08194764	5.2494253	21	11 22.5	19.8
312479 2008 TX_{35}	14.0	X	282.42496	206.14873	278.95913	2.94794	0.0648120	0.08345557	5.1859998	21	11 13.4	20.7
312480 2008 TN_{49}	13.3	X	21.86461	176.65045	201.35284	12.31781	0.0579962	0.08350706	5.1838680	21	11 18.6	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312481 2008 TA_{111}	17.7	X	187.60196	194.41188	205.11008	16.78385	0.0984131	0.35280781	1.9835535	21	4 10.5	20.0
312482 2008 TE_{127}	13.4	X	0.44308	138.66271	262.44915	7.03955	0.0321560	0.08152944	5.2673607	21	11 14.9	20.2
312483 2008 TD_{174}	13.9	X	1.22539	322.75679	85.08978	3.18805	0.0730037	0.08460107	5.1390811	21	11 25.9	20.3
312484 2008 UL_{15}	13.7	X	12.95145	33.61172	348.42412	5.04894	0.0646463	0.08152095	5.2677265	21	11 9.7	20.4
312485 2008 UJ_{90}	17.1	X	168.90131	106.08786	55.69027	24.20114	0.0711261	0.37221695	1.9139854	21	10 6.9	19.9
312486 2008 UE_{190}	13.7	X	337.75171	268.66967	149.61852	5.20692	0.0713931	0.08121187	5.2810835	21	11 8.4	20.3
312487 2008 UZ_{235}	13.3	X	343.73313	178.23447	249.03569	5.61419	0.0356494	0.08182038	5.2548670	21	11 24.6	20.0
312488 2008 VH_{68}	17.7	X	241.71661	73.38330	104.78377	7.00691	0.0685244	0.30349214	2.1929956	21	—	—
312489 2008 WR_{108}	17.0	X	159.38408	299.68754	255.33800	20.32141	0.0716990	0.37563540	1.9023556	21	10 23.3	19.5
312490 2008 WA_{126}	18.0	X	24.48356	254.83134	117.06435	4.59710	0.1675403	0.30306715	2.1950452	21	—	—
312491 2008 YN_{29}	17.2	X	257.75638	167.29858	325.66014	5.85361	0.1059479	0.29500253	2.2348698	21	11 21.8	19.8
312492 2008 YR_{108}	17.0	X	31.46868	213.71431	110.76103	6.47239	0.1513224	0.28940272	2.2636067	21	11 15.9	19.5
312493 2008 YK_{146}	18.1	X	332.03843	215.15989	218.21627	0.61012	0.0917379	0.30064214	2.2068330	21	—	—
312494 2009 AJ_{13}	17.1	X	43.74618	29.40843	269.52858	6.69941	0.1251371	0.28808252	2.2705171	21	10 18.7	19.8
312495 2009 AP_{49}	17.3	X	220.34399	96.12334	91.03189	6.63729	0.0938192	0.29622058	2.2287391	21	12 18.1	19.9
312496 2009 BM_{9}	17.0	X	212.48513	302.06365	290.22296	5.79252	0.1104875	0.30386768	2.1911883	21	—	—
312497 2009 BR_{60}	17.7	X	280.22107	173.76500	296.33124	5.38850	0.1091713	0.29473250	2.2362346	21	11 25.9	19.9
312498 2009 BL_{85}	17.3	X	108.30246	326.24554	294.41676	6.00057	0.0923460	0.28853274	2.2681546	21	11 13.4	20.4
312499 2009 BQ_{86}	17.1	X	287.27391	7.19277	320.29690	5.34415	0.1633986	0.26554658	2.3972256	21	4 26.4	20.3
312500 2009 BX_{107}	17.6	X	299.29610	296.91237	118.30773	3.69485	0.0696502	0.28432462	2.2904795	21	10 13.4	19.9
312501 2009 BU_{150}	17.3	X	201.97178	289.69292	271.14959	4.34906	0.0826336	0.29541562	2.2327859	21	12 14.3	19.9
312502 2009 BP_{151}	17.4	X	221.68229	325.16640	163.01483	7.33797	0.1149147	0.28009192	2.3134973	21	9 25.9	20.4
312503 2009 BX_{152}	17.7	X	148.94085	20.55991	328.93399	5.80933	0.0364746	0.31933626	2.1198440	21	—	—
312504 2009 BY_{155}	17.5	X	20.18976	193.25777	50.07999	1.79497	0.1556793	0.26262044	2.4149994	21	6 15.0	19.3
312505 2009 BP_{166}	17.3	X	36.40970	195.71317	53.85184	3.11609	0.1396869	0.26377211	2.4079648	21	7 28.3	19.6
312506 2009 BY_{175}	17.1	X	0.54165	204.63965	126.32825	7.15535	0.1335452	0.28273710	2.2990453	21	9 28.9	19.2
312507 2009 BB_{176}	16.7	X	25.43230	170.87987	90.98921	7.35968	0.1099920	0.26675085	2.3900052	21	7 22.6	19.1
312508 2009 BL_{178}	18.0	X	185.88378	198.53452	270.61969	1.44333	0.1738336	0.27045905	2.3681091	21	7 18.6	21.7
312509 2009 BZ_{178}	17.5	X	313.35359	93.98059	35.39071	0.92446	0.1564295	0.30005647	2.2097038	21	—	—
312510 2009 BE_{190}	16.2	X	193.72526	233.16786	142.38944	2.40978	0.1601233	0.24587952	2.5234100	21	3 29.5	20.1
312511 2009 CO_{20}	17.5	X	332.16569	173.74820	178.65204	2.65718	0.1932505	0.28318589	2.2966156	21	8 25.3	18.8
312512 2009 CF_{44}	17.1	X	231.17979	310.28058	164.99380	5.34447	0.0895979	0.27993270	2.3143745	21	9 22.9	20.1
312513 2009 CD_{57}	17.2	X	266.96450	306.22403	80.99778	5.02563	0.1892485	0.27200377	2.3591349	21	6 21.4	20.4
312514 2009 DB_{9}	17.6	X	128.75962	307.87546	311.08974	3.97147	0.1379580	0.28498590	2.2869349	21	12 4.9	21.0
312515 2009 DD_{15}	17.4	X	157.89975	228.44442	358.39915	2.46322	0.2098824	0.28689649	2.2767703	21	11 20.6	21.2
312516 2009 DF_{17}	17.6	X	178.71796	336.85252	174.05163	6.05716	0.0786741	0.27488869	2.3426000	21	9 7.3	20.8
312517 2009 DD_{21}	17.4	X	12.79629	103.56237	168.85774	1.22459	0.1758911	0.26815952	2.3816278	21	7 18.6	19.1
312518 2009 DU_{31}	17.7	X	210.30062	183.25342	298.90817	1.86102	0.1288397	0.27679475	2.3318332	21	8 31.9	21.1
312519 2009 DO_{32}	17.1	X	182.98377	320.33955	161.41694	7.38403	0.0502055	0.26868362	2.3785297	21	8 3.1	20.4
312520 2009 DE_{33}	18.3	X	180.52445	101.83870	38.63091	2.82206	0.1634232	0.27345705	2.3507691	21	8 25.4	21.9
312521 2009 DV_{44}	18.0	X	286.45253	300.73835	177.75266	8.18061	0.2129181	0.29565988	2.2315560	21	12 10.3	19.7
312522 2009 DQ_{48}	17.2	X	5.38415	197.45209	140.30200	5.85636	0.1465202	0.28580524	2.2825621	21	10 20.9	19.3
312523 2009 DN_{66}	17.9	X	84.14282	59.06622	306.08928	2.11501	0.1272389	0.30579687	2.1819629	21	—	—
312524 2009 DP_{66}	17.6	X	162.90659	275.52495	292.96547	1.46734	0.1572298	0.28421361	2.2910759	21	11 3.4	21.0
312525 2009 DS_{73}	16.6	X	357.91140	147.03169	102.29787	7.28441	0.0827081	0.25336464	2.4734628	21	5 13.8	19.4
312526 2009 DK_{75}	17.0	X	125.41825	31.73995	174.94769	6.59894	0.0533281	0.27532073	2.3401486	21	9 19.4	20.1
312527 2009 DM_{106}	17.4	X	44.38786	153.97928	74.16532	3.30316	0.1719251	0.26073114	2.4266517	21	7 14.3	19.8
312528 2009 DX_{109}	17.3	X	275.99924	156.19874	331.67761	6.77642	0.1038314	0.29353801	2.2422971	21	12 16.3	19.6
312529 2009 DY_{109}	17.3	X	260.77950	204.72280	331.39362	5.24118	0.1001886	0.29894089	2.2151977	21	—	—
312530 2009 DL_{124}	16.1	X	154.11981	350.10899	17.91174	6.32796	0.2704978	0.23784162	2.5799472	21	2 22.9	20.4
312531 2009 DB_{130}	17.9	X	150.38494	1.46198	164.61809	1.21628	0.1182168	0.27038168	2.3685608	21	8 27.2	21.3
312532 2009 DY_{133}	17.1	X	238.72182	300.83967	328.77383	3.06890	0.0683478	0.23220863	2.6215037	21	1 4.9	21.0
312533 2009 DY_{140}	16.0	X	181.55729	350.31158	16.49426	16.00604	0.1463557	0.23906615	2.5711297	21	3 12.1	20.1
312534 2009 DH_{142}	16.0	X	309.05742	277.67419	312.95798	9.30308	0.1597675	0.23617177	2.5920939	21	1 23.9	19.6
312535 2009 EY_{2}	15.7	X	21.23020	38.77732	257.15404	16.39580	0.2022220	0.18130847	3.0916523	21	8 28.7	19.6
312536 2009 EE_{16}	17.4	X	23.11853	130.93946	109.33656	2.36695	0.1415875	0.25820594	2.4424475	21	6 15.7	19.4
312537 2009 EM_{18}	16.5	X	161.37056	161.04205	4.04261	10.35193	0.0225992	0.19265030	2.9690870	21	9 3.1	20.7
312538 2009 EH_{20}	17.5	X	155.17140	83.93168	96.15075	3.08236	0.0966562	0.27551775	2.3390329	21	9 21.9	20.9
312539 2009 ES_{20}	17.8	X	252.36856	111.66991	2.35680	3.19103	0.1258421	0.28473001	2.2883049	21	10 13.6	20.3
312540 2009 ER_{21}	16.5	X	168.75691	298.83826	307.94455	23.78456	0.1513058	0.28990927	2.2609692	21	—	—
312541 2009 EU_{26}	17.3	X	242.81572	261.29889	281.01960	5.90133	0.1365889	0.29646594	2.2275092	21	—	—
312542 2009 FC_{1}	17.0	X	239.02988	308.11633	142.19899	8.55391	0.1648451	0.27612132	2.3356230	21	8 18.1	20.1
312543 2009 FP_{5}	18.2	X	298.38862	207.30988	238.03328	0.39736	0.1892736	0.29351059	2.2424368	21	11 14.4	19.5
312544 2009 FA_{7}	17.6	X	143.63513	200.81447	55.74521	3.23190	0.0385120	0.28856550	2.2679829	21	12 19.6	20.5
312545 2009 FO_{9}	17.7	X	278.68839	145.52780	1.08534	2.61330	0.1629821	0.29787985	2.2204549	21	—	—
312546 2009 FV_{19}	17.5	X	254.28074	105.88560	55.81019	6.72949	0.1088135	0.29491330	2.2353205	21	12 29.3	19.9
312547 2009 FG_{23}	17.5	X	145.42636	142.96243	49.09570	3.69125	0.1471431	0.27367047	2.3495468	21	9 27.9	21.0
312548 2009 FQ_{24}	17.4	X	149.26304	211.15825	40.94292	4.53799	0.1192324	0.28710221	2.2756826	21	12 17.2	20.7
312549 2009 FE_{29}	16.9	X	147.37409	144.94997	85.79560	6.49841	0.1170753	0.28291997	2.2980545	21	11 19.0	20.3
312550 2009 FZ_{34}	17.8	X	99.94909	103.84252	75.84804	3.22332	0.1598217	0.26159228	2.4213232	21	7 24.9	21.2
312551 2009 FL_{39}	17.2	X	240.93394	42.10580	55.22270	6.42288	0.0881379	0.27781581	2.3261162	21	9 13.7	20.2
312552 2009 FB_{41}	16.9	X	101.13744	115.40824	161.22161	7.11027	0.1122947	0.28144581	2.3060720	21	11 29.8	20.3
312553 2009 FD_{51}	16.2	X	198.21020	305.71529	57.28126	7.80326	0.2634238	0.24188135	2.5511410	21	3 22.6	20.8
312554 2009 FF_{61}	17.3	X	277.61209	220.89391	208.90594	2.03643	0.1996812	0.28087926	2.3091719	21	9 3.9	19.6
312555 2009 FS_{66}	17.9	X	252.74379	359.56873	149.94281	3.51445	0.0809318	0.28979937	2.2615408	21	12 12.8	20.3
312556 2009 FW_{68}	17.8	X	184.04641	74.99220	78.18669	2.86650	0.0564099	0.27387034	2.3484035	21	9 20.0	20.9
312557 2009 FW_{69}	16.6	X	113.83267	290.92477	89.42581	5.51059	0.0914492	0.22481291	2.6786865	21	1 4.1	20.1
312558 2009 GC	17.1	X	232.59137	56.26057	78.32465	5.58468	0.0788381	0.28331359	2.2959254	21	10 25.3	19.9
312559 2009 GH_{2}	17.3	X	129.98795	211.49725	341.96689	17.89912	0.0825009	0.35612118	1.9712310	21	9 13.1	19.5
312560 2009 GQ_{4}	16.3	X	125.87807	59.71280	292.89802	13.37702	0.2703995	0.21639288	2.7477301	21	1 10.9	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312561 2009 *HL*	16.6	X	154.87683	156.72827	43.30642	23.84537	0.1268293	0.27396841	2.3478430	21	10 21.7	20.3
312562 2009 HQ_{1}	17.2	X	166.62930	115.05284	69.38981	3.16200	0.1367448	0.27611825	2.3356404	21	10 9.0	20.7
312563 2009 HO_{2}	17.0	X	123.33463	102.62149	96.52085	4.41249	0.0246674	0.26928782	2.3749706	21	9 5.2	20.0
312564 2009 HN_{4}	17.1	X	165.88515	182.69072	124.59380	4.36391	0.1025981	0.22064317	2.7123292	21	—	—
312565 2009 HD_{7}	17.5	X	136.67580	115.18813	87.72830	5.19129	0.1419830	0.27152036	2.3619342	21	10 4.3	21.1
312566 2009 HL_{7}	16.9	X	113.46361	117.22102	128.92831	4.61943	0.1905056	0.27294281	2.3537208	21	11 7.4	20.6
312567 2009 HJ_{10}	16.7	X	253.54248	350.95712	119.68717	9.04063	0.0478866	0.27579902	2.3374423	21	10 27.1	19.7
312568 2009 HM_{19}	16.3	X	290.09916	171.66146	69.78180	13.50777	0.1496606	0.22955939	2.6416342	21	1 19.6	20.3
312569 2009 HX_{19}	16.6	X	86.84004	124.33010	73.25223	5.49684	0.1276179	0.26013050	2.4303857	21	7 29.2	19.7
312570 2009 HT_{38}	16.7	X	43.24412	86.71870	106.70877	9.09700	0.0992261	0.24705779	2.5153805	21	5 13.2	19.6
312571 2009 HR_{41}	16.9	X	61.07464	3.39472	148.11971	4.97071	0.0416064	0.24316760	2.5421368	21	4 4.7	20.1
312572 2009 HB_{42}	16.5	X	207.41704	181.78215	95.47907	4.95296	0.0565724	0.22072592	2.7116512	21	—	—
312573 2009 HF_{57}	17.0	X	353.62619	104.49649	113.29881	10.89343	0.1328223	0.24051717	2.5607784	21	3 21.2	19.9
312574 2009 HR_{65}	16.5	X	203.92586	163.66223	69.03758	11.60976	0.0881058	0.20902797	2.8118994	21	—	—
312575 2009 HN_{67}	16.1	X	353.83342	280.55080	53.10191	11.18539	0.1413136	0.18129132	3.0918473	21	9 9.1	19.8
312576 2009 HR_{69}	17.0	X	69.00192	173.04732	192.97643	4.06810	0.1180056	0.20887651	2.8132585	21	—	—
312577 2009 HE_{75}	16.2	X	214.64869	187.47944	73.71569	12.49033	0.1383321	0.21744381	2.7388696	21	—	—
312578 2009 HT_{76}	16.7	X	184.46540	15.05198	106.06893	7.44463	0.0465859	0.26389482	2.4072183	21	8 6.3	19.8
312579 2009 HY_{77}	17.0	X	15.18554	144.09638	78.60818	7.98719	0.0951633	0.24715026	2.5147530	21	5 5.2	19.8
312580 2009 HZ_{78}	16.4	X	286.09388	41.46142	202.41194	7.59421	0.1500168	0.22915098	2.6447720	21	1 15.1	20.5
312581 2009 HG_{80}	16.8	X	337.45967	164.11496	67.45875	5.71066	0.0277474	0.24326478	2.5414597	21	3 24.9	20.1
312582 2009 HN_{80}	16.9	X	221.73998	297.91494	127.10541	6.53358	0.0343765	0.25983692	2.4322160	21	7 6.6	20.0
312583 2009 HH_{81}	15.7	X	309.25890	88.94384	132.55850	13.15084	0.1215618	0.23232691	2.6206139	21	1 17.8	19.2
312584 2009 HO_{81}	16.5	X	328.82151	342.04145	233.55018	7.21227	0.1074166	0.23239512	2.6201011	21	2 4.2	20.1
312585 2009 HW_{82}	17.5	X	75.51984	66.45099	181.63409	2.30650	0.0611377	0.26905450	2.3763435	21	9 11.6	20.5
312586 2009 HS_{88}	16.5	X	29.35571	135.77005	46.00110	13.64295	0.1425728	0.24175747	2.5520124	21	4 5.7	19.2
312587 2009 HW_{89}	16.6	X	301.26438	178.06220	51.36049	6.00009	0.2029585	0.22986857	2.6392650	21	1 9.5	20.5
312588 2009 HZ_{99}	15.9	X	177.13334	197.68076	212.00601	14.82606	0.1158433	0.24573872	2.5243738	21	4 23.4	19.7
312589 2009 HR_{102}	16.3	X	124.10336	267.72691	100.08025	15.07296	0.1856247	0.21767358	2.7369418	21	1 16.5	20.1
312590 2009 HT_{106}	17.3	X	164.91062	16.17825	214.48392	6.31687	0.1513260	0.28423229	2.2909755	21	12 4.5	20.7
312591 2009 JZ_{11}	16.1	X	325.07714	104.94075	114.88344	15.21758	0.0794767	0.23343597	2.6123069	21	2 13.7	19.6
312592 2009 JA_{16}	16.7	X	43.65417	41.68838	90.64715	5.35809	0.1022568	0.23289665	2.6163383	21	2 16.7	19.6
312593 2009 KN_{2}	16.3	X	247.28789	179.37444	115.18134	13.78984	0.1628496	0.22764318	2.6564376	21	2 10.0	20.6
312594 2009 KM_{3}	16.3	X	175.80863	233.37682	77.87194	6.97626	0.1036597	0.21835106	2.7312776	21	—	—
312595 2009 KJ_{6}	16.2	X	49.87726	226.31246	88.08585	3.69840	0.1196507	0.18899656	3.0072310	21	11 4.4	20.2
312596 2009 KD_{9}	16.1	X	287.87564	357.71819	238.09858	12.50756	0.1196955	0.22699963	2.6614560	21	1 9.9	20.2
312597 2009 KY_{14}	15.8	X	55.68656	81.17704	86.67254	8.91868	0.1057274	0.24198518	2.5504111	21	4 28.9	18.8
312598 2009 KG_{22}	16.8	X	227.87235	128.51210	193.83933	12.02773	0.1432909	0.23085444	2.6317455	21	2 21.8	21.2
312599 2009 KP_{26}	15.9	X	26.73907	202.17304	115.78723	10.32085	0.0984955	0.18226680	3.0808059	21	10 7.9	20.0
312600 2009 KF_{34}	17.3	X	256.16251	40.43930	270.61626	3.90820	0.0190246	0.23467530	2.6031016	21	3 19.2	20.8
312601 2009 KW_{35}	15.6	X	345.40350	196.95623	122.63194	15.59741	0.1404163	0.17247269	3.1963610	21	7 28.8	19.2
312602 2009 LZ_{1}	16.1	X	29.88537	262.48395	188.24725	14.27679	0.0841201	0.21802971	2.7339607	21	—	—
312603 2009 LU_{6}	16.1	X	334.31013	101.61615	88.95150	15.58706	0.0519185	0.22700932	2.6613802	21	1 23.8	19.7
312604 2009 OK_{3}	15.2	X	36.28143	204.18838	126.74619	19.75650	0.0660689	0.17854502	3.1234716	21	11 4.9	19.9
312605 2009 OG_{6}	15.5	X	55.40900	141.41330	157.46630	13.46067	0.2659055	0.17632103	3.1496815	21	11 13.4	20.2
312606 2009 PX_{14}	15.4	X	67.81486	13.04503	316.55194	14.80842	0.0171562	0.18032857	3.1028423	21	11 25.4	20.1
312607 2009 RJ_{21}	15.3	X	194.53453	277.99770	270.55431	8.16430	0.0415728	0.17832942	3.1259885	21	11 2.7	19.9
312608 2009 RU_{53}	14.1	X	330.01121	13.45416	42.80918	9.55514	0.0454681	0.08217224	5.2398555	21	10 27.9	20.8
312609 2009 RW_{55}	13.3	X	308.23171	11.20449	64.60957	5.10445	0.0485610	0.08135890	5.2747192	21	10 23.8	20.0
312610 2009 RA_{63}	13.3	X	314.49254	49.22270	16.27261	4.45756	0.0766677	0.08352614	5.1830783	21	10 16.1	19.8
312611 2009 RY_{68}	13.8	X	11.41313	229.75401	147.01695	3.79111	0.0792171	0.08388966	5.1680942	21	11 5.9	20.3
312612 2009 SE_{74}	13.5	X	241.16985	69.87801	85.16894	6.79999	0.0353667	0.08458880	5.1395782	21	11 7.1	20.4
312613 2009 SB_{112}	16.1	X	291.60095	355.11269	207.98880	13.86285	0.1215496	0.19691072	2.9261044	21	—	—
312614 2009 SQ_{120}	13.3	X	285.20940	245.43273	205.46126	12.41996	0.0865269	0.08200356	5.2470385	21	10 6.9	20.1
312615 2009 SJ_{137}	13.8	X	328.12623	217.65426	219.44054	6.00078	0.1452400	0.08409786	5.1595609	21	11 11.7	20.0
312616 2009 SF_{141}	14.0	X	311.65012	84.19536	355.87114	3.89436	0.0695442	0.08489368	5.1272657	21	10 28.8	20.6
312617 2009 SZ_{199}	13.3	X	281.30880	107.18458	2.38974	10.29003	0.0666906	0.08425291	5.1532291	21	10 24.0	20.1
312618 2009 SQ_{246}	14.5	X	335.88263	248.89476	157.91297	8.11180	0.1782245	0.08298317	5.2056628	21	10 20.3	20.5
312619 2009 SS_{246}	13.6	X	309.39464	259.17784	178.38104	14.39014	0.1381530	0.08214747	5.2409087	21	10 18.8	20.1
312620 2009 SA_{252}	14.1	X	304.44370	173.50338	262.37456	6.16154	0.0979398	0.08043316	5.3151144	21	10 10.4	20.9
312621 2009 SZ_{269}	13.9	X	332.57167	24.97828	31.91344	8.62583	0.0790384	0.08537683	5.1079035	21	10 29.7	20.3
312622 2009 SH_{313}	13.5	X	11.85571	312.19767	49.40965	8.20347	0.0291001	0.08177907	5.2566365	21	10 18.4	20.3
312623 2009 SQ_{346}	14.1	X	316.15520	317.57833	126.96422	3.33442	0.1627921	0.08434247	5.1495805	21	11 2.1	20.2
312624 2009 SB_{355}	13.9	X	329.31998	156.54915	266.70266	5.70743	0.1429720	0.08347101	5.1853604	21	10 27.1	20.1
312625 2009 SK_{356}	14.0	X	329.39959	162.51831	277.62616	4.07669	0.0896060	0.08567511	5.0960412	21	11 19.5	20.4
312626 2009 TU_{15}	12.7	X	316.08142	347.08793	82.40222	9.46382	0.1042490	0.08093738	5.2930170	21	10 23.7	19.3
312627 2009 TS_{26}	13.2	X	316.58424	299.82356	132.52071	7.28516	0.1710908	0.08233880	5.2327867	21	10 20.5	19.5
312628 2009 UA_{36}	14.1	X	322.36164	218.92059	211.60833	10.20806	0.0834445	0.08113335	5.2844905	21	10 31.3	20.7
312629 2009 UB_{101}	13.8	X	298.85731	21.00569	80.78823	4.68886	0.0296978	0.08106964	5.2872588	21	11 11.8	20.7
312630 2009 UB_{107}	13.2	X	351.46531	347.37741	61.60678	7.88951	0.0153987	0.08100433	5.2901002	21	11 14.2	20.0
312631 2009 UR_{145}	12.8	X	322.38781	319.25341	106.40411	22.54262	0.1436819	0.08126575	5.2787492	21	10 30.9	19.5
312632 2009 UY_{148}	12.9	X	212.94426	306.76212	219.32009	17.36175	0.1329963	0.08146329	5.2702122	21	10 9.8	20.4
312633 2009 WE_{5}	13.2	X	327.75084	180.41265	259.53558	13.36232	0.0586737	0.08266826	5.2188744	21	11 18.1	19.9
312634 2009 WM_{59}	13.7	X	5.68778	332.14445	70.96383	7.40541	0.0182512	0.08321657	5.1959247	21	11 23.9	20.4
312635 2009 WC_{221}	13.9	X	346.88993	296.37956	125.50349	3.61704	0.0133533	0.08341818	5.1875492	21	11 23.7	20.7
312636 2009 WG_{229}	13.9	X	307.74657	318.64803	128.77131	3.62886	0.0645949	0.07977954	5.3441056	21	11 3.2	20.7
312637 2010 AP_{85}	13.1	X	284.73318	188.46341	285.07714	17.53244	0.1332561	0.08372074	5.1750436	21	10 19.9	20.1
312638 2010 AP_{111}	13.1	X	327.48851	300.80567	122.54077	15.47734	0.0840431	0.08302634	5.2038582	21	11 4.7	19.8
312639 2010 BX_{15}	13.2	X	358.60757	275.00447	120.62961	18.62337	0.1044205	0.08398132	5.1643332	21	11 15.9	19.8
312640 2010 BJ_{43}	13.3	X	359.49841	125.56383	279.52048	11.37103	0.0527550	0.08541237	5.1064868	21	11 18.7	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312641 2010 BF_{52}	12.8	X	312.19154	346.01802	108.06490	17.19688	0.1546171	0.08261648	5.2210547	21	11 12.5	19.3
312642 2010 BH_{62}	13.3	X	321.82775	153.06656	288.20475	10.82893	0.0470979	0.08384464	5.1699443	21	11 11.7	20.1
312643 2010 BZ_{111}	13.0	X	71.65223	220.76428	100.41457	17.09105	0.0482470	0.08225573	5.2363090	21	11 16.6	20.0
312644 2010 CO_{31}	15.7	X	193.71547	183.81235	138.45425	9.69180	0.0501892	0.17646237	3.1479995	21	1 29.3	20.3
312645 2010 EP_{65}	5.3	X	6.64583	352.63637	205.04510	18.91064	0.3032776	0.00301481	47.4565531	21	4 20.7	20.5
312646 2010 EY_{91}	16.2	X	53.59095	184.01295	169.21465	5.37120	0.2400682	0.23517013	2.5994488	21	—	—
312647 2010 GM_{101}	17.2	X	17.96286	219.16358	96.89604	6.61035	0.1795494	0.28739877	2.2741169	21	10 17.9	19.3
312648 2010 JY_{18}	16.8	X	111.55987	263.83623	109.97538	9.80896	0.1992021	0.21844203	2.7305193	21	1 10.2	20.3
312649 2010 JP_{47}	17.2	X	313.33287	224.06354	97.66265	12.51325	0.2569106	0.27004048	2.3705556	21	5 16.5	19.9
312650 2010 JJ_{110}	16.8	X	249.25948	252.98632	78.65743	23.92293	0.0779295	0.35214387	1.9860460	21	4 5.4	19.9
312651 2010 JG_{124}	17.1	X	248.60247	16.03744	94.58993	24.65352	0.0433155	0.38407643	1.8743799	21	11 16.4	19.3
312652 2010 KY_{20}	17.0	X	95.90494	90.57628	251.17081	3.33329	0.0738543	0.20853049	2.8163698	21	—	—
312653 2010 KQ_{36}	16.8	X	41.65753	18.86952	242.52953	22.93223	0.1411604	0.27961637	2.3161196	21	8 12.4	20.0
312654 2010 KT_{41}	16.5	X	278.84494	158.28037	184.12216	12.98876	0.1057577	0.25414196	2.4684167	21	5 20.4	19.9
312655 2010 KS_{50}	15.5	X	39.79416	150.37576	218.61141	10.39990	0.1296030	0.19858891	2.9095962	21	12 29.7	19.6
312656 2010 KJ_{63}	15.5	X	359.33214	58.52652	280.91086	8.67648	0.1044230	0.18227576	3.0807050	21	9 13.7	19.4
312657 2010 KW_{78}	15.7	X	359.56040	174.02340	148.48479	9.53569	0.2407290	0.17894531	3.1188118	21	9 2.9	18.7
312658 2010 KX_{78}	15.4	X	352.93861	19.39319	311.75990	9.08150	0.0837941	0.17862941	3.1224877	21	8 25.4	19.3
312659 2010 KV_{90}	15.9	X	328.52902	85.90416	252.47162	4.32197	0.1739338	0.17361743	3.1822955	21	7 19.8	19.6
312660 2010 KS_{95}	15.9	X	52.30090	250.94529	129.00871	6.01984	0.1244145	0.20320792	2.8653365	21	—	—
312661 2010 KL_{114}	15.4	X	110.94220	99.71440	266.69283	1.41902	0.2630121	0.12258277	4.0134368	21	1 26.2	21.2
312662 2010 LZ_{11}	16.4	X	218.36258	44.20582	297.89341	14.90469	0.2071204	0.23602628	2.5931590	21	3 3.1	21.1
312663 2010 LB_{12}	15.8	X	173.73427	49.54692	303.07777	16.58080	0.2277767	0.22629238	2.6669984	21	2 12.9	20.5
312664 2010 LD_{12}	15.6	X	5.14801	180.72646	142.99842	5.88084	0.1418403	0.17915629	3.1163628	21	9 10.4	19.2
312665 2010 LY_{15}	17.7	X	88.24208	114.38502	160.85912	3.53739	0.1957015	0.29240725	2.2480741	21	11 22.6	21.0
312666 2010 LS_{17}	15.6	X	304.57495	40.78668	337.61278	8.68172	0.0962792	0.17482277	3.1676514	21	8 15.2	19.6
312667 2010 LH_{53}	15.9	X	307.38921	32.19389	231.78276	17.17664	0.1467152	0.24340912	2.5404549	21	2 26.2	19.7
312668 2010 LJ_{57}	14.9	X	46.56085	152.01213	134.09233	28.88523	0.1700355	0.18229090	3.0805344	21	10 9.3	19.5
312669 2010 LR_{62}	16.5	X	25.50026	166.76396	159.87454	12.86079	0.1573561	0.19900788	2.9055111	21	10 26.3	20.2
312670 2010 LM_{92}	16.2	X	79.28912	242.08325	254.85700	11.20560	0.1219148	0.23838682	2.5760121	21	4 18.5	19.5
312671 2010 LP_{103}	16.0	X	40.33476	191.18517	147.02658	9.58841	0.0958448	0.18973238	2.9994508	21	11 19.9	20.2
312672 2010 LU_{113}	16.1	X	206.60201	13.28937	278.01496	13.09406	0.2282888	0.22898157	2.6460763	21	1 1.5	20.7
312673 2010 MD_{11}	15.3	X	338.66030	84.51001	238.23577	17.41096	0.1612455	0.17120419	3.2121301	21	7 14.2	19.4
312674 2010 MF_{20}	16.2	X	48.65303	50.00558	277.45102	1.13787	0.0964715	0.18890531	3.0081992	21	11 14.3	20.2
312675 2010 MF_{28}	16.1	X	55.48737	3.55878	345.72815	11.57065	0.0684848	0.19499299	2.9452583	21	12 16.4	20.4
312676 2010 MF_{36}	16.2	X	17.89848	220.58032	128.35259	9.44161	0.1932819	0.18484409	3.0521017	21	11 14.2	19.9
312677 2010 MK_{63}	15.5	X	11.90013	341.75563	295.93095	23.64583	0.1792441	0.26039922	2.4287134	21	7 23.9	17.5
312678 2010 MP_{71}	16.5	X	0.82287	71.19499	18.11440	4.35915	0.1192336	0.20187980	2.8778897	21	—	—
312679 2010 MJ_{73}	15.9	X	131.02352	105.38440	294.11787	13.47928	0.0997218	0.22338332	2.6901029	21	2 15.4	19.8
312680 2010 MG_{104}	16.3	X	338.75445	26.50137	330.79028	9.62157	0.0804120	0.17489950	3.1667249	21	9 6.9	20.3
312681 2010 NV_{4}	16.3	X	284.86135	53.50769	298.29003	13.85080	0.1661659	0.25830815	2.4418031	21	5 28.4	19.7
312682 2010 NW_{4}	15.7	X	119.44136	51.15474	306.07036	26.10752	0.1675528	0.21726086	2.7404069	21	—	—
312683 2010 NH_{5}	16.8	X	56.75984	7.64303	273.53429	6.95415	0.1565241	0.27991319	2.3144820	21	10 15.4	19.8
312684 2010 NX_{22}	15.2	X	273.00613	93.42438	344.84439	16.37844	0.1472562	0.17369212	3.1813832	21	9 8.3	19.6
312685 2010 NM_{30}	16.4	X	38.01952	172.61298	179.57810	7.87178	0.1542464	0.18883572	3.0089383	21	12 10.2	20.5
312686 2010 NZ_{39}	15.7	X	337.86321	189.08895	184.01826	12.42448	0.1699167	0.17689248	3.1428945	21	9 25.3	19.0
312687 2010 NU_{43}	16.3	X	194.19264	38.31373	292.91372	4.05631	0.0321224	0.22253194	2.6969598	21	1 31.9	20.1
312688 2010 NK_{45}	16.0	X	1.75865	329.78182	26.00178	11.39114	0.1212371	0.17994585	3.1072402	21	10 15.4	19.6
312689 2010 ND_{50}	16.5	X	132.51074	33.83875	326.31851	4.28418	0.0520977	0.21373092	2.7704978	21	—	—
312690 2010 NE_{64}	15.5	X	90.72296	334.61413	299.45033	6.31383	0.0895244	0.18346275	3.0674026	21	10 25.9	20.1
312691 2010 NW_{86}	15.2	X	318.96926	104.28235	301.47729	14.36044	0.2056419	0.17773723	3.1329282	21	9 21.7	19.1
312692 2010 NA_{97}	16.9	X	21.77971	276.44524	199.58936	4.17516	0.0091722	0.21433308	2.7653063	21	—	—
312693 2010 NU_{110}	16.4	X	124.47160	229.33527	123.06346	5.31423	0.0784048	0.20941900	2.8083981	21	—	—
312694 2010 NT_{117}	16.1	X	348.38824	115.08689	232.94795	9.31591	0.1929497	0.18228004	3.0806567	21	9 7.8	19.5
312695 2010 OE_{6}	16.1	X	352.05199	194.25881	184.09292	5.45618	0.1423434	0.18064377	3.0992318	21	10 30.6	19.7
312696 2010 OK_{14}	16.0	X	111.22188	322.62174	351.91533	11.57890	0.0509557	0.19621173	2.9330495	21	—	—
312697 2010 OW_{25}	15.8	X	160.36070	249.97734	125.61695	14.91604	0.1751057	0.22267045	2.6958413	21	3 4.7	20.2
312698 2010 OL_{28}	15.6	X	21.24139	289.75905	24.52937	18.03120	0.1877116	0.17619193	3.1512198	21	10 3.6	19.3
312699 2010 OH_{41}	15.2	X	329.28869	6.38868	30.15240	18.69301	0.0784402	0.17834312	3.1258285	21	10 17.2	19.1
312700 2010 OY_{75}	13.3	X	275.08293	189.79553	270.91950	14.72589	0.1561336	0.08457247	5.1402398	21	9 21.1	20.4
312701 2010 OS_{84}	15.1	X	343.09738	241.20582	125.16239	17.79470	0.1483831	0.17438887	3.1729036	21	10 3.6	19.1
312702 2010 OD_{87}	16.0	X	216.90789	30.35350	314.56577	12.68043	0.3119742	0.23236834	2.6203024	21	3 6.8	21.1
312703 2010 PT_{2}	15.1	X	234.78956	176.80382	328.85153	23.30669	0.1340859	0.17680121	3.1439760	21	10 5.9	20.2
312704 2010 PV_{10}	16.2	X	226.94388	21.77406	301.89194	12.57646	0.1607392	0.23521214	2.5991393	21	2 20.4	20.5
312705 2010 PW_{21}	15.5	X	264.34347	185.77396	201.89719	9.63028	0.0634703	0.15743234	3.3968270	21	7 6.0	20.5
312706 2010 PM_{25}	14.7	X	86.02387	329.16322	290.76369	21.09656	0.0641352	0.17273302	3.1931486	21	9 18.9	19.8
312707 2010 PV_{25}	12.5	X	249.54376	211.12530	271.16091	17.88082	0.0627361	0.08375685	5.1735562	21	9 27.9	19.7
312708 2010 PJ_{44}	14.8	X	147.41668	221.07203	287.59474	12.37038	0.1244121	0.15391317	3.4484097	21	7 27.4	20.2
312709 2010 PR_{49}	15.8	X	108.97805	37.64184	286.77959	10.85216	0.0471871	0.19451777	2.9500533	21	—	—
312710 2010 PE_{65}	16.5	X	139.21116	276.93711	354.18068	1.28672	0.0591751	0.20036977	2.8923305	21	12 16.1	20.7
312711 2010 PO_{71}	15.5	X	201.08976	231.43013	305.37918	11.96772	0.0204207	0.17817888	3.1277491	21	10 25.5	20.2
312712 2010 PB_{76}	16.2	X	46.26979	301.32358	67.28617	3.01709	0.0939658	0.19817834	2.9136134	21	—	—
312713 2010 QS_{3}	17.0	X	1.03191	170.38257	136.90437	7.61637	0.2067169	0.26721376	2.3872442	21	8 22.6	18.6
312714 2010 RR_{3}	15.7	X	305.85657	234.33667	156.84856	10.19324	0.1947915	0.17474341	3.1686104	21	8 18.2	19.5
312715 2010 RU_{20}	15.8	X	351.39348	21.66771	330.33583	8.69671	0.0791571	0.18085501	3.0968181	21	9 19.0	19.8
312716 2010 RA_{31}	13.3	X	287.58136	44.48238	49.16568	29.88898	0.0610582	0.08159306	5.2646225	21	10 25.0	20.3
312717 2010 RQ_{40}	15.9	X	16.95778	238.86193	278.75896	10.93585	0.1499735	0.22421944	2.6834111	21	1 31.2	18.8
312718 2010 RG_{44}	16.8	X	160.84031	211.61429	281.33126	5.24531	0.0414482	0.25879255	2.4387552	21	7 21.7	20.1
312719 2010 RG_{48}	16.4	X	105.83139	6.31499	332.34988	1.31035	0.0721642	0.20313065	2.8660630	21	—	—
312720 2010 RE_{49}	15.6	X	3.39518	350.91236	315.37417	3.91707	0.1690255	0.17437483	3.1730738	21	8 13.7	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312721 2010 RC_{50}	15.7	X	84.53140	40.42944	225.39356	0.54359	0.1515304	0.18149644	3.0895174	21	10 18.9	20.3
312722 2010 RY_{55}	16.1	X	33.02308	74.90419	242.37149	4.23638	0.1615193	0.18409770	3.0603456	21	10 18.8	20.0
312723 2010 RF_{65}	15.7	X	354.49963	52.22249	290.03525	8.28956	0.1732145	0.17986206	3.1082052	21	9 11.5	19.3
312724 2010 RU_{73}	16.6	X	112.91162	292.44523	22.96867	2.16067	0.0574888	0.20352356	2.8623732	21	—	—
312725 2010 RJ_{82}	16.7	X	75.99093	234.50659	180.03544	6.00042	0.0580937	0.21397675	2.7683755	21	—	—
312726 2010 RW_{105}	16.8	X	236.42149	63.06475	196.44061	4.23297	0.0154397	0.21434630	2.7651927	21	—	—
312727 2010 RO_{108}	16.9	X	47.06149	311.62239	330.90262	6.37085	0.1083684	0.26833514	2.3805886	21	9 25.2	19.6
312728 2010 RA_{109}	15.6	X	278.14123	84.83043	344.03209	15.42425	0.2356370	0.17397860	3.1778897	21	8 23.8	20.1
312729 2010 RV_{118}	16.6	X	160.72716	197.19062	131.22306	5.78632	0.1479082	0.21453269	2.7635907	21	1 3.3	20.9
312730 2010 RZ_{160}	16.3	X	84.37483	162.03813	249.38917	7.52877	0.1576176	0.22082631	2.7108293	21	1 11.3	19.5
312731 2010 SS_{9}	15.8	X	255.64528	89.02196	3.47379	9.50599	0.1189952	0.17435134	3.1733589	21	9 10.7	20.4
312732 2010 SA_{14}	16.9	X	53.70863	141.35291	160.02181	2.55480	0.2263479	0.27540990	2.3396435	21	11 21.3	20.1
312733 2010 SC_{21}	16.8	X	62.32532	173.14578	215.50113	1.36076	0.0749121	0.20287986	2.8684245	21	—	—
312734 2010 SH_{27}	15.7	X	343.56992	183.84919	202.60744	9.73925	0.0884734	0.18017804	3.1045701	21	10 24.8	19.4
312735 2010 SL_{36}	15.8	X	32.17749	318.97612	13.17998	9.51980	0.0959680	0.18381843	3.0634445	21	10 26.6	19.8
312736 2010 SU_{36}	16.0	X	20.79906	197.24452	169.95260	10.54833	0.1173031	0.18759245	3.0222182	21	11 30.7	20.0
312737 2010 SY_{40}	15.6	X	271.11060	90.75950	13.33320	8.79864	0.0483306	0.18184581	3.0855589	21	10 22.1	20.0
312738 2010 TZ_{4}	16.1	X	202.03171	264.10331	16.38788	13.44905	0.1394575	0.21507605	2.7589342	21	—	—
312739 2010 TA_{25}	16.2	X	97.57974	236.48153	73.36315	2.23164	0.0670224	0.19408109	2.9544767	21	12 17.1	20.5
312740 2010 TP_{26}	16.8	X	60.31393	212.56570	214.14027	3.87845	0.0503252	0.21300759	2.7767663	21	—	—
312741 2010 TD_{29}	17.1	X	314.83029	152.68397	298.03529	1.68868	0.1148579	0.18928924	3.0041303	21	12 1.6	20.8
312742 2010 TU_{33}	16.2	X	233.21639	86.69655	71.02518	2.63973	0.1324277	0.18320817	3.0702436	21	11 1.9	20.8
312743 2010 TL_{34}	16.8	X	261.54684	213.54501	67.78807	3.31708	0.1498239	0.22852338	2.6496120	21	2 7.8	20.8
312744 2010 TM_{35}	16.3	X	50.75932	270.03788	35.50054	12.23145	0.1031473	0.17999698	3.1066518	21	10 21.7	20.6
312745 2010 TM_{41}	16.8	X	104.46780	327.25593	227.86984	4.44165	0.1745231	0.25405410	2.4689857	21	8 18.6	20.5
312746 2010 TR_{52}	16.7	X	300.03344	11.82880	186.35235	4.13843	0.0103482	0.21458161	2.7631707	21	—	—
312747 2010 TR_{57}	15.6	X	345.70282	165.14682	226.60038	7.55925	0.0725891	0.18206712	3.0830580	21	11 3.0	19.4
312748 2010 TZ_{69}	16.3	X	196.39431	278.34165	207.58065	7.69040	0.0548786	0.16853110	3.2460062	21	8 18.2	21.2
312749 2010 TN_{82}	16.4	X	12.19452	151.06643	304.90192	4.98317	0.1350677	0.20593874	2.8399499	21	—	—
312750 2010 TG_{85}	16.6	X	21.59558	305.64917	160.58365	4.01794	0.0564320	0.21222285	2.7836072	21	—	—
312751 2010 TG_{92}	17.4	X	147.97303	20.41390	263.78927	4.57459	0.1634760	0.29538524	2.2329390	21	—	—
312752 2010 TT_{96}	16.5	X	50.61902	260.55782	124.94754	2.92876	0.0724508	0.19946176	2.9011017	21	—	—
312753 2010 TA_{97}	17.0	X	62.66510	94.75570	115.54465	1.68648	0.1072623	0.25096546	2.4892016	21	7 7.3	19.8
312754 2010 TG_{98}	17.3	X	112.88096	186.12739	19.08682	2.85801	0.1215902	0.26187565	2.4195762	21	9 8.3	20.7
312755 2010 TB_{99}	15.9	X	178.57260	7.32880	170.87500	3.02561	0.0083304	0.17951272	3.1122362	21	10 7.3	20.2
312756 2010 TZ_{104}	16.6	X	30.27711	151.27107	304.47946	3.27419	0.0290024	0.21032638	2.8003150	21	—	—
312757 2010 TP_{109}	16.5	X	117.56360	219.13774	101.08979	3.54693	0.0540762	0.20087861	2.8874441	21	—	—
312758 2010 TG_{116}	15.7	X	345.82246	340.13197	27.83089	3.00287	0.0942981	0.17656443	3.1467862	21	10 3.9	19.4
312759 2010 TM_{127}	16.2	X	154.39331	215.82400	136.13247	4.33450	0.0891062	0.21598594	2.7511803	21	1 18.7	20.1
312760 2010 TO_{135}	16.0	X	304.85436	233.63819	166.59814	12.43217	0.1395925	0.17356003	3.1829970	21	9 5.8	19.9
312761 2010 TK_{157}	16.6	X	102.86869	297.44912	58.10777	2.85101	0.0830117	0.20501737	2.8484522	21	—	—
312762 2010 TZ_{157}	16.6	X	80.08479	286.18404	85.49210	3.20619	0.0788233	0.20211289	2.8756766	21	—	—
312763 2010 TA_{159}	16.6	X	145.32664	159.09538	148.61281	2.52906	0.0542630	0.20419530	2.8560922	21	—	—
312764 2010 TP_{178}	15.8	X	221.76029	307.87685	154.56858	1.58481	0.1001438	0.16626663	3.2754123	21	8 16.1	20.6
312765 2010 TF_{179}	15.9	X	221.58968	111.01812	41.65928	4.85933	0.0621141	0.18118002	3.0931135	21	10 21.9	20.5
312766 2010 UW_{14}	13.0	X	35.12200	106.89832	236.29461	17.10826	0.0190295	0.08244589	5.2282543	21	10 20.2	20.0
312767 2010 US_{22}	16.6	X	231.41639	19.95819	136.39057	2.44071	0.1226439	0.17951654	3.1121922	21	10 30.5	21.3
312768 2010 UL_{30}	15.6	X	98.44039	41.23608	277.11552	5.48003	0.0815009	0.19067389	2.9895689	21	12 28.8	20.1
312769 2010 UP_{30}	15.6	X	119.12805	301.56709	292.18244	4.21513	0.1147080	0.17347355	3.1840549	21	10 9.5	20.6
312770 2010 UF_{56}	13.9	X	299.42572	69.72030	6.49302	4.49602	0.0682916	0.08033825	5.3193000	21	10 9.9	20.7
312771 2010 UH_{67}	16.4	X	253.04033	184.15301	73.98015	6.39983	0.1205730	0.21592532	2.7516953	21	1 6.1	20.6
312772 2010 UA_{76}	16.3	X	64.62984	298.32453	270.62919	10.25245	0.1311516	0.23744226	2.5828392	21	7 11.2	19.5
312773 2010 UW_{82}	13.4	X	199.72309	305.55973	243.89605	19.46652	0.0486977	0.08374241	5.1741509	21	10 27.9	20.6
312774 2010 UC_{86}	16.8	X	353.19825	157.97901	82.63191	4.00772	0.1280943	0.23753485	2.5821680	21	4 20.0	19.5
312775 2010 UP_{97}	13.3	X	260.98184	14.38210	114.96930	9.83888	0.0242870	0.08502503	5.1219837	21	11 3.8	20.2
312776 2010 UZ_{101}	16.3	X	272.54686	347.34389	314.17542	7.22263	0.2411290	0.23694760	2.5864326	21	3 2.4	20.5
312777 2010 VP_{6}	15.6	X	12.23354	84.48613	239.35963	9.17314	0.0444410	0.17108483	3.2136239	21	9 8.8	20.1
312778 2010 VA_{30}	12.7	X	311.38099	330.01197	106.69992	15.28322	0.1162285	0.08289572	5.2093233	21	10 27.6	19.4
312779 2010 VY_{33}	12.9	X	301.10720	204.14298	237.35049	24.42146	0.1859252	0.08264011	5.2200598	21	9 28.6	19.7
312780 2010 VR_{34}	16.1	X	329.72633	48.03048	311.09404	8.71935	0.2545069	0.17741264	3.1367484	21	8 11.6	19.2
312781 2010 VO_{39}	16.7	X	200.37894	198.09713	326.30195	6.63673	0.0604809	0.26938835	2.3743797	21	10 19.5	20.0
312782 2010 VB_{46}	12.9	X	96.88327	44.21214	247.29577	22.27354	0.0312448	0.08430634	5.1510514	21	11 3.1	19.9
312783 2010 VX_{52}	16.2	X	65.40478	183.29891	123.15919	2.78282	0.1622855	0.18033916	3.1027207	21	11 17.7	20.7
312784 2010 VB_{74}	17.6	X	96.48716	232.19644	186.60648	3.29987	0.1227348	0.30456229	2.1878555	21	1 13.4	19.6
312785 2010 VH_{90}	16.8	X	169.25683	192.97771	56.48782	8.85418	0.0746308	0.27696741	2.3308640	21	—	
312786 2010 VC_{96}	13.1	X	311.67789	332.49979	96.92648	13.15821	0.0547911	0.08133033	5.2759543	21	10 24.7	20.0
312787 2010 VA_{114}	12.9	X	348.72750	146.56554	235.71766	29.85366	0.0278984	0.08424289	5.1536376	21	10 8.5	19.9
312788 2010 VF_{127}	13.4	X	334.80890	167.87510	248.38457	8.73962	0.1516910	0.08193343	5.2500319	21	10 26.6	19.6
312789 2010 VW_{138}	15.1	X	170.85969	329.20082	230.35935	8.99142	0.0244362	0.17345842	3.1842400	21	10 21.2	19.8
312790 2010 VB_{163}	15.1	X	177.33114	340.46038	247.23193	12.01534	0.1044263	0.18093903	3.0958593	21	11 29.7	20.0
312791 2010 VT_{164}	13.9	X	305.66638	160.49610	262.95021	2.12939	0.0847689	0.08310622	5.2005229	21	10 1.2	20.6
312792 2010 VX_{176}	15.8	X	62.92580	81.25561	286.54068	10.09975	0.1474045	0.19242332	2.9714215	21	—	—
312793 2010 VR_{180}	13.5	X	239.92127	83.47233	77.44322	4.58782	0.0730684	0.08426592	5.1526985	21	11 7.1	20.5
312794 2010 VM_{195}	15.0	X	85.12663	357.33827	272.92532	16.27514	0.0630778	0.17167854	3.2062106	21	10 5.3	19.9
312795 2010 WY_{10}	14.9	X	164.66660	300.13778	273.83483	18.06958	0.0467791	0.17635315	3.1492991	21	10 27.9	19.9
312796 2010 WQ_{21}	13.6	X	2.24159	320.46108	62.65161	2.63775	0.0282649	0.08241055	5.2297488	21	10 29.6	20.4
312797 2010 WC_{22}	13.9	X	268.08670	63.60060	61.32841	5.15020	0.0961032	0.08126957	5.2785836	21	10 25.7	20.8
312798 2010 WC_{27}	14.0	X	312.18472	65.10305	20.38237	3.29994	0.1676218	0.08380533	5.1715606	21	10 26.3	20.2
312799 2010 WF_{54}	13.6	X	5.81357	95.90431	282.83496	6.73806	0.1009335	0.08393635	5.1661778	21	10 29.4	20.1
312800 2010 WM_{64}	15.8	X	328.28658	137.36411	1.79172	6.44545	0.0114481	0.20116716	2.8846823	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312801 2010 WO_{66}	13.8	X	282.08658	41.76682	79.65008	4.22733	0.0782357	0.08356774	5.1813581	21	11 8.8	20.6
312802 2010 XM_{5}	12.7	X	298.50891	356.22759	100.01756	22.61954	0.0449757	0.08342080	5.1874406	21	11 11.7	19.7
312803 2010 XD_{71}	13.3	X	264.98988	174.89129	314.15888	8.22296	0.0982781	0.08172476	5.2589649	21	10 21.9	20.4
312804 2010 XQ_{79}	13.4	X	308.87849	245.20310	204.60542	6.98414	0.1099689	0.08257810	5.2226725	21	11 2.4	19.8
312805 2010 XN_{80}	13.6	X	292.88389	318.05777	142.96667	7.53443	0.0586952	0.08107199	5.2871564	21	11 2.6	20.5
312806 2010 XG_{85}	13.2	X	351.43981	288.69226	116.69104	10.56400	0.0359209	0.08383377	5.1703911	21	11 13.5	20.0
312807 2010 XM_{87}	13.3	X	324.78461	127.92483	305.94585	8.54330	0.0470110	0.08292048	5.2082861	21	11 6.6	20.1
312808 2010 YS_{1}	15.3	X	242.74953	231.44068	351.77836	8.15676	0.0609972	0.18548608	3.0450551	21	—	—
312809 2011 AJ_{22}	15.2	X	249.27504	126.88099	101.43737	15.31945	0.1661449	0.18313350	3.0710780	21	—	—
312810 2011 BZ_{125}	16.8	X	310.61309	335.88261	335.40326	3.99767	0.1727970	0.22473284	2.6793227	21	5 9.8	20.1
312811 2011 FP_{88}	16.3	X	121.73192	124.01654	19.22912	7.04825	0.0665634	0.21706335	2.7420691	21	6 19.0	20.2
312812 2011 GH	17.4	X	187.24833	287.05870	159.13143	8.07911	0.1959407	0.22129731	2.7069815	21	6 20.6	22.1
312813 2011 KL_{30}	17.1	X	344.96014	230.43369	46.54214	7.20001	0.1243080	0.29719310	2.2238743	21	5 21.6	18.9
312814 2011 LS_{13}	16.5	X	160.28172	81.91233	205.10837	9.78124	0.1715749	0.24550836	2.5259526	21	—	—
312815 2011 OR_{19}	17.2	X	230.81635	172.50973	157.55373	3.60379	0.1425766	0.26537101	2.3982828	21	3 4.9	20.9
312816 2011 OE_{48}	15.6	X	324.79193	69.85036	298.51739	5.69752	0.1523718	0.19935205	2.9021660	21	8 26.8	18.8
312817 2011 QT_{6}	17.6	X	205.82985	223.87687	225.30848	6.03899	0.0405874	0.29047065	2.2580551	21	7 18.2	20.5
312818 2011 QX_{67}	17.2	X	246.09947	71.88957	258.36616	3.32480	0.1577210	0.26474101	2.4020861	21	3 17.2	20.8
312819 2011 QO_{92}	15.7	X	40.37117	60.57133	200.97742	10.66757	0.0894763	0.19029990	2.9934845	21	8 6.0	19.7
312820 2011 SG_{31}	15.2	X	49.13892	225.68074	175.83275	4.96126	0.1593006	0.12677777	3.9244064	21	—	—
312821 2011 SF_{43}	16.5	X	15.17571	24.15210	355.93669	3.12044	0.1013446	0.21071980	2.7968284	21	12 9.8	20.1
312822 2011 SO_{91}	16.2	X	351.28200	82.25107	221.93612	9.32824	0.2061016	0.18221039	3.0814417	21	7 14.1	19.6
312823 2011 SB_{113}	15.9	X	31.87518	254.83940	225.36039	17.08904	0.1049913	0.24185279	2.5513418	21	1 2.7	19.1
312824 2011 SN_{123}	15.6	X	174.34175	78.81007	27.96967	5.74273	0.1423646	0.17074635	3.2178695	21	7 5.0	20.8
312825 2011 SH_{135}	16.2	X	297.49283	182.18627	188.81391	10.79820	0.0736503	0.18292888	3.0733678	21	7 25.9	20.5
312826 2011 SD_{142}	16.7	X	279.56922	292.22478	227.06713	0.84717	0.0197524	0.21820828	2.7324689	21	—	—
312827 2011 SW_{166}	16.8	X	157.41542	22.46563	29.51686	6.98609	0.0934444	0.25816851	2.4426836	21	4 3.5	20.2
312828 2011 SW_{172}	18.0	X	238.28751	25.22592	17.47475	2.93798	0.2442676	0.27195559	2.3594135	21	6 5.7	21.7
312829 2011 SW_{183}	15.8	X	285.83911	341.85246	51.83693	6.23167	0.1614676	0.18161747	3.0881447	21	7 30.6	20.0
312830 2011 SB_{241}	17.1	X	105.83884	192.11339	9.06053	7.61528	0.0471080	0.28658945	2.2783962	21	8 20.1	19.9
312831 2011 SU_{247}	16.2	X	128.21387	56.17446	6.81987	14.44305	0.1717003	0.24320598	2.5418693	21	3 25.5	19.9
312832 2011 SN_{257}	17.6	X	257.21858	144.63553	233.14379	5.85438	0.1203360	0.27391334	2.3481577	21	6 5.7	20.6
312833 2011 TO_{9}	15.6	X	331.92497	74.31579	261.79554	11.29228	0.0973078	0.18598586	3.0395977	21	7 27.8	19.5
312834 2011 TS_{13}	16.8	X	28.35399	69.40199	341.23341	3.36847	0.0993813	0.21381467	2.7697743	21	—	—
312835 2011 UP_{8}	16.6	X	277.96898	339.77744	48.66639	5.46243	0.1775288	0.27874628	2.3209369	21	7 10.4	19.4
312836 2011 UE_{13}	17.7	X	328.45059	264.29538	37.66474	2.68987	0.2411634	0.27776353	2.3264081	21	5 11.3	19.7
312837 2011 UC_{16}	16.3	X	272.44910	1.16973	110.83248	3.24550	0.0170115	0.20335525	2.8639523	21	11 12.6	20.1
312838 2011 UL_{17}	15.8	X	189.64095	74.98288	35.54107	5.17074	0.1110442	0.16899893	3.2400130	21	7 25.2	20.9
312839 2011 UL_{25}	15.9	X	107.65150	11.62356	212.17594	6.96431	0.0735796	0.18407468	3.0606008	21	9 12.2	20.5
312840 2011 UW_{37}	15.9	X	82.27676	197.68712	40.61617	22.84266	0.0883764	0.17854922	3.1234225	21	9 17.5	20.8
312841 2011 UO_{49}	17.7	X	277.22023	298.07044	47.69580	2.10512	0.2013873	0.27135478	2.3628948	21	5 5.9	21.1
312842 2011 UW_{52}	15.9	X	100.56088	59.87698	207.02719	10.40734	0.0702712	0.19367638	2.9585911	21	10 30.6	20.2
312843 2011 UA_{55}	15.5	X	326.09699	151.45474	235.38453	8.62740	0.0993561	0.18692866	3.0293686	21	9 24.6	19.3
312844 2011 UM_{55}	16.3	X	145.51896	305.13691	53.85367	11.38999	0.0929581	0.23163054	2.6258636	21	1 16.9	20.1
312845 2011 UQ_{55}	17.6	X	296.54345	309.13250	55.36197	1.66004	0.2280740	0.27909289	2.3190149	21	6 23.2	20.2
312846 2011 UQ_{61}	17.2	X	183.01348	162.15239	199.48808	3.69835	0.0750709	0.24099521	2.5573908	21	2 24.8	21.0
312847 2011 UA_{78}	15.4	X	82.59710	355.40562	239.54849	13.36751	0.1191977	0.17943799	3.1131003	21	8 29.4	20.2
312848 2011 UE_{78}	15.8	X	293.23788	150.77307	237.10980	9.02478	0.0697224	0.18093147	3.0959455	21	8 10.2	20.2
312849 2011 UY_{81}	16.7	X	43.11996	359.10139	98.46334	2.15559	0.0303865	0.22933238	2.6433772	21	—	—
312850 2011 UQ_{84}	15.2	X	246.14585	213.20447	245.95775	15.85637	0.0894688	0.18164072	3.0878811	21	9 2.9	20.1
312851 2011 UZ_{84}	16.9	X	128.80575	315.70740	29.99303	6.68779	0.1171248	0.22350603	2.6891181	21	—	—
312852 2011 UA_{85}	17.4	X	155.99925	210.87161	283.86003	3.68321	0.0875347	0.26738174	2.3862442	21	7 20.6	20.7
312853 2011 UM_{86}	15.5	X	127.68467	23.33551	232.20577	9.68885	0.0114895	0.19264671	2.9691238	21	11 11.1	19.8
312854 2011 UR_{86}	16.4	X	27.07391	114.43892	226.98406	2.43990	0.1560721	0.19333257	2.9620976	21	11 11.9	20.2
312855 2011 UO_{87}	17.3	X	35.85130	65.78587	226.12456	6.47237	0.1430194	0.28363520	2.2941895	21	9 29.4	19.8
312856 2011 UY_{87}	17.0	X	115.59870	168.16244	214.25263	1.83542	0.0632807	0.22751411	2.6574422	21	1 3.9	20.5
312857 2011 UK_{88}	16.5	X	23.61753	279.64485	243.13441	3.06439	0.0641934	0.23811182	2.5779951	21	2 20.8	19.6
312858 2011 UK_{89}	18.0	X	233.07396	162.09480	19.36519	2.91258	0.0577608	0.30411305	2.1900096	21	—	—
312859 2011 UL_{113}	17.2	X	290.52238	295.47999	68.49463	6.65036	0.1815197	0.27653204	2.3333098	21	6 21.1	19.9
312860 2011 UB_{125}	16.2	X	226.32240	272.00573	202.71567	10.15937	0.0950262	0.18584219	3.0411640	21	9 4.2	20.8
312861 2011 UO_{126}	16.6	X	44.50367	165.94087	287.26996	5.13859	0.0946634	0.22822876	2.6518918	21	—	—
312862 2011 UP_{141}	16.9	X	60.15745	33.73152	31.35290	5.72215	0.0466768	0.22409795	2.6843808	21	—	—
312863 2011 UX_{141}	16.7	X	138.80247	207.17130	132.54891	4.38200	0.2249628	0.23226783	2.6210582	21	—	—
312864 2011 US_{145}	17.8	X	356.72712	48.23698	18.80687	4.16690	0.1070670	0.30740179	2.1743617	21	—	—
312865 2011 UC_{152}	16.2	X	277.85164	251.49143	249.59922	3.26372	0.0139653	0.21067254	2.7972467	21	12 26.3	19.9
312866 2011 UY_{152}	15.9	X	273.05101	203.49106	225.96217	12.63142	0.0359844	0.18071157	3.0984566	21	9 9.5	20.5
312867 2011 UP_{154}	17.2	X	53.37389	335.75550	244.55038	3.47063	0.1212731	0.26358381	2.4091115	21	7 8.9	19.8
312868 2011 UQ_{154}	17.3	X	293.14512	333.43390	53.56262	2.84977	0.1768734	0.28135526	2.3065667	21	8 1.8	19.7
312869 2011 UL_{160}	16.3	X	126.42305	202.54945	133.13699	5.29975	0.1148503	0.22125946	2.7072903	21	—	—
312870 2011 UA_{161}	16.3	X	1.68322	163.72199	244.71416	11.10774	0.0500832	0.20258720	2.8711864	21	12 19.2	20.1
312871 2011 UL_{161}	16.3	X	313.66945	33.93638	348.52878	3.20311	0.1176166	0.18285373	3.0742098	21	8 31.5	20.1
312872 2011 UU_{163}	18.0	X	260.18402	188.15175	253.24003	1.67340	0.1631311	0.28245042	2.3006006	21	9 1.2	20.9
312873 2011 UD_{164}	17.1	X	102.86780	299.15670	98.21619	6.12625	0.2786005	0.23249396	2.6193585	21	2 8.3	20.4
312874 2011 UM_{165}	16.8	X	331.59862	164.78533	202.54134	10.71172	0.0321929	0.28504893	2.2865978	21	9 23.2	19.3
312875 2011 UJ_{174}	16.5	X	90.20161	286.59372	77.99147	14.03185	0.2550264	0.22074563	2.7114898	21	—	—
312876 2011 UY_{177}	15.7	X	341.06970	272.17570	61.76761	10.57963	0.0758574	0.17893598	3.1189202	21	8 17.4	19.8
312877 2011 UY_{179}	17.4	X	294.80604	28.23255	332.87702	2.25510	0.2449633	0.27761214	2.3272538	21	6 12.2	20.2
312878 2011 UA_{180}	15.3	X	40.72280	37.71327	248.46862	10.50355	0.0355576	0.17729783	3.1381024	21	8 29.2	19.8
312879 2011 UC_{192}	17.0	X	121.64821	259.99493	79.09335	2.84319	0.1008307	0.21997390	2.7178279	21	—	—
312880 2011 UL_{196}	15.9	X	221.49153	54.77231	13.15249	8.23685	0.0563448	0.16927608	3.2364755	21	7 9.4	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312881 2011 UU_{199}	16.9	X	68.98178	114.69896	327.90699	4.03418	0.1445110	0.22838526	2.6506802	21	1 25.9	19.8
312882 2011 UV_{202}	15.8	X	137.74496	144.00398	60.85712	27.69525	0.1563303	0.17971336	3.1099194	21	10 13.2	21.3
312883 2011 UW_{203}	15.4	X	183.76909	107.34508	63.00152	20.47468	0.1017592	0.18247009	3.0785173	21	10 10.3	20.5
312884 2011 UL_{242}	17.2	X	212.87753	26.51808	273.97891	1.34341	0.1763789	0.23727242	2.5840716	21	1 15.2	21.5
312885 2011 UO_{251}	16.4	X	82.56735	264.26145	88.91738	5.47019	0.0792958	0.21078015	2.7962945	21	—	—
312886 2011 UK_{252}	15.7	X	140.70703	214.03770	72.07804	13.21593	0.1865550	0.20977522	2.8052178	21	—	—
312887 2011 US_{253}	17.1	X	134.35903	49.19256	65.10674	22.79547	0.1129118	0.35755245	1.9659669	21	5 26.2	18.9
312888 2011 UN_{254}	16.6	X	55.40514	233.11949	199.52885	0.50437	0.1167355	0.22672830	2.6635789	21	—	—
312889 2011 UV_{262}	16.7	X	163.72648	230.27364	55.45425	5.32320	0.0767355	0.21409212	2.7673808	21	—	—
312890 2011 UL_{263}	16.4	X	85.85541	336.88749	61.21041	7.49843	0.0179512	0.22168141	2.7038538	21	—	—
312891 2011 UB_{266}	16.3	X	124.26008	249.92589	66.97133	7.41525	0.0680297	0.21236171	2.7823936	21	—	—
312892 2011 UE_{268}	16.0	X	260.70702	328.67027	84.11902	6.32963	0.1591364	0.17679177	3.1440880	21	7 22.7	20.7
312893 2011 UE_{271}	15.9	X	340.57773	257.56765	67.44389	6.51360	0.0763716	0.17479008	3.1680464	21	8 1.8	20.0
312894 2011 UY_{271}	16.3	X	157.86711	304.90530	65.45859	7.81402	0.2941093	0.24055762	2.5604913	21	3 3.6	20.8
312895 2011 UB_{281}	15.9	X	331.84567	159.82533	188.91612	17.43197	0.1265725	0.18179044	3.0861854	21	8 10.9	19.9
312896 2011 UG_{281}	16.9	X	281.13206	320.62424	72.95731	5.70277	0.1565886	0.28166078	2.3048984	21	7 27.1	19.5
312897 2011 UH_{285}	16.3	X	321.26927	200.75180	135.34222	12.46519	0.1803967	0.18355589	3.0663649	21	7 3.6	20.1
312898 2011 UT_{285}	16.9	X	307.25794	59.63437	87.45549	3.83364	0.1221511	0.21843260	2.7305978	21	—	—
312899 2011 US_{296}	15.7	X	30.24132	240.55986	48.04244	19.16905	0.1734811	0.18494624	3.0509778	21	9 21.4	19.7
312900 2011 UM_{297}	17.4	X	297.35333	235.83588	68.46594	4.65061	0.1821408	0.26650944	2.3914482	21	4 9.3	20.4
312901 2011 UH_{300}	17.4	X	96.00447	332.84047	110.08559	3.01121	0.1033229	0.23788196	2.5796555	21	3 2.2	20.5
312902 2011 UL_{300}	15.6	X	249.76153	238.13107	217.54643	8.53459	0.1078927	0.18126433	3.0921542	21	9 4.9	20.2
312903 2011 UQ_{300}	16.8	X	34.89765	152.84536	254.70200	8.03018	0.2797678	0.21253788	2.7808559	21	—	—
312904 2011 UO_{309}	16.3	X	306.71597	2.98687	114.33508	3.14632	0.0241481	0.20478576	2.8505996	21	12 31.8	20.2
312905 2011 UH_{317}	16.2	X	121.02257	116.27816	251.46330	3.95888	0.0099293	0.22497604	2.6773914	21	—	—
312906 2011 UC_{319}	15.7	X	104.55605	359.76319	239.86304	10.36287	0.0574424	0.18320825	3.0702427	21	9 24.5	20.3
312907 2011 UZ_{327}	16.4	X	346.83912	171.46278	200.06922	1.64635	0.1885099	0.19077695	2.9884921	21	10 14.1	19.2
312908 2011 UA_{332}	16.0	X	327.74824	247.43970	257.46188	11.46076	0.0682650	0.21686272	2.7437600	21	—	—
312909 2011 UQ_{334}	17.7	X	240.37773	60.82619	327.07600	1.51073	0.2152085	0.27301284	2.3533183	21	5 21.6	21.4
312910 2011 UT_{338}	17.3	X	308.23620	205.90127	106.10839	3.88601	0.2456742	0.27744345	2.3281971	21	4 23.4	20.1
312911 2011 UC_{363}	17.1	X	252.56185	255.89832	162.75311	0.44772	0.1593457	0.17613521	3.1518963	21	7 20.0	21.8
312912 2011 UZ_{400}	16.2	X	345.64910	307.38000	34.90104	9.38022	0.0899400	0.18391477	3.0623746	21	9 4.9	20.1
312913 2011 VV_{4}	16.3	X	349.68940	172.69334	159.04453	2.57916	0.0299432	0.17635210	3.1493115	21	8 23.0	20.6
312914 2011 VU_{12}	15.4	X	292.16089	337.31032	65.06567	11.98083	0.0599827	0.18221054	3.0814401	21	9 8.5	19.8
312915 2011 VG_{14}	16.8	X	348.57350	287.85788	183.15518	1.54872	0.0290318	0.21745019	2.7388160	21	—	—
312916 2011 VU_{14}	16.5	X	108.16104	22.40855	301.09296	3.51273	0.1099153	0.21138254	2.7909795	21	—	—
312917 2011 WH_{1}	16.1	X	19.21930	80.79775	250.30232	8.32234	0.0940404	0.18474118	3.0532351	21	10 4.9	20.1
312918 2011 WV_{1}	15.9	X	204.21881	230.98162	75.71727	14.90179	0.0785324	0.22966819	2.6407998	21	1 14.7	20.0
312919 2011 WU_{9}	16.7	X	29.06126	41.31746	76.38878	0.76779	0.0754853	0.22816296	2.6524017	21	1 3.6	19.9
312920 2011 WD_{14}	17.1	X	128.62043	291.00453	80.53137	4.53264	0.2386021	0.23246071	2.6196082	21	1 31.0	20.9
312921 2011 WF_{16}	17.5	X	161.24938	96.18118	161.68429	3.34257	0.1582010	0.30595720	2.1812006	21	—	—
312922 2011 WL_{17}	16.5	X	106.29241	199.89341	254.84768	4.05063	0.0869689	0.24161315	2.5530286	21	3 25.7	19.9
312923 2011 WA_{32}	15.9	X	324.37601	349.79023	350.93567	8.72505	0.0875730	0.17280085	3.1923130	21	7 28.5	20.0
312924 2011 WN_{35}	15.7	X	290.07918	307.46918	72.94806	10.95799	0.1949762	0.17821565	3.1273188	21	7 12.5	20.0
312925 2011 WX_{39}	16.1	X	156.12761	209.73053	91.48214	16.55444	0.0598955	0.22288763	2.6940898	21	—	—
312926 2011 WN_{55}	16.8	X	215.81283	310.77975	65.65124	6.66937	0.1214796	0.25955664	2.4339666	21	4 21.2	20.4
312927 2011 WM_{58}	16.9	X	166.56300	155.54928	177.90687	2.21445	0.0407273	0.22768379	2.6561217	21	1 2.2	20.6
312928 2011 WT_{59}	16.5	X	136.67938	165.54389	115.11133	3.20098	0.0318367	0.20305469	2.8667778	21	12 24.8	20.5
312929 2011 WM_{60}	16.7	X	217.96876	268.33854	215.82936	4.29102	0.1154464	0.17744760	3.1363363	21	9 5.5	21.5
312930 2011 WN_{61}	16.9	X	169.00085	133.55645	226.79596	2.23751	0.0732991	0.23623520	2.5916299	21	2 8.5	20.6
312931 2011 WY_{66}	16.6	X	64.59499	323.48668	58.15907	5.55136	0.3300011	0.21655129	2.7463900	21	—	—
312932 2011 WV_{69}	16.9	X	209.39010	102.05860	302.95790	5.41681	0.1072294	0.26118573	2.4238352	21	5 18.9	20.5
312933 2011 WD_{80}	16.9	X	56.84748	290.42675	99.17404	1.79326	0.0796926	0.21370326	2.7707369	21	—	—
312934 2011 WS_{83}	17.5	X	248.89919	243.75667	149.99138	2.64462	0.1547540	0.26934962	2.3746073	21	6 13.8	21.0
312935 5042 T–3	17.3	X	231.28014	328.11918	97.31651	6.28384	0.1711801	0.26455399	2.4032180	21	7 5.6	20.7
312936 1979 MT_{3}	17.3	X	117.13337	73.19749	263.58225	3.24278	0.2083895	0.31465267	2.1408280	21	—	—
312937 1993 RU_{14}	16.3	X	284.28321	314.59150	3.21138	9.61425	0.2090360	0.23782994	2.5800316	21	4 7.1	19.9
312938 1994 AY_{6}	16.9	X	37.29740	343.95089	114.95527	3.77320	0.1226040	0.21783592	2.7355819	21	—	—
312939 1994 SW_{12}	16.4	X	338.02180	45.81120	16.46731	9.59389	0.1520061	0.18587650	3.0407897	21	11 30.7	20.0
312940 1994 UC_{10}	16.0	X	194.35182	281.24558	337.90603	2.91458	0.1790365	0.19242497	2.9714044	21	—	—
312941 1995 BJ_{12}	17.6	X	183.18186	260.92741	334.55916	2.18610	0.1394781	0.28917194	2.2648109	21	12 30.4	20.9
312942 1995 EK_{1}	17.3	X	236.59353	299.83495	352.61818	9.06965	0.7767886	0.28934483	2.2639087	21	1 15.9	23.1
312943 1995 EQ_{5}	16.7	X	37.78944	121.18064	6.01278	2.64822	0.0275197	0.22445064	2.6815680	21	1 30.9	20.1
312944 1995 FK_{8}	17.2	X	344.88460	56.49366	156.63068	7.95766	0.1558955	0.22578931	2.6709584	21	2 22.1	20.3
312945 1995 FE_{19}	17.4	X	74.59660	87.82347	44.83541	2.53709	0.1582258	0.22976066	2.6400912	21	4 15.9	20.6
312946 1995 SN_{35}	15.4	X	311.09711	164.37407	293.99405	12.71577	0.0545111	0.19830204	2.9124016	21	12 11.3	19.4
312947 1995 SC_{46}	16.9	X	208.99059	86.75711	3.85107	1.07886	0.1559068	0.26046802	2.4282857	21	7 17.6	20.5
312948 1995 SF_{80}	13.0	X	328.98373	78.19800	348.75796	15.40878	0.0248055	0.08089661	5.2947951	21	11 1.8	20.1
312949 1995 UG_{82}	17.3	X	188.46341	351.41085	98.66998	3.40024	0.1582614	0.25384141	2.4703647	21	6 26.4	21.0
312950 1995 WP_{11}	17.2	X	235.00367	327.21963	98.27422	5.34524	0.1152356	0.25659941	2.4526314	21	7 15.7	20.5
312951 1995 YQ_{11}	15.8	X	28.79775	78.77715	285.16045	12.48631	0.0413689	0.18474355	3.0532090	21	11 24.4	20.1
312952 1996 AN_{6}	16.1	X	140.07345	194.64212	80.35838	4.81365	0.0360598	0.18628677	3.0363235	21	12 18.7	20.5
312953 1996 BM_{10}	15.9	X	325.84425	303.44755	348.32765	12.67684	0.1472125	0.24372005	2.5382937	21	5 4.9	19.1
312954 1996 GF_{13}	16.7	X	58.64727	51.71918	111.25035	3.92290	0.0562841	0.23748407	2.5825360	21	4 19.5	19.8
312955 1996 RB_{19}	14.0	X	56.75214	334.85689	1.34008	6.07264	0.0706830	0.08334688	5.1905075	21	11 12.6	20.8
312956 1997 CZ_{3}	19.4	X	323.90918	33.58152	314.21752	6.61652	0.5409422	0.59158759	1.4053679	21	4 15.4	20.9
312957 1997 JQ_{9}	16.1	X	163.47504	95.62323	133.43309	14.07019	0.1186417	0.18164022	3.0878868	21	11 21.9	21.2
312958 1997 QP_{2}	17.2	X	189.50565	52.26377	329.43794	28.40380	0.0834286	0.43974721	1.7126449	21	2 26.2	18.6
312959 1997 SH_{9}	16.6	X	49.85464	108.68552	0.82279	10.61147	0.1515800	0.22155571	2.7048763	21	2 3.6	19.6
312960 1997 SP_{11}	16.5	X	86.56208	86.35155	353.96266	21.74723	0.0528905	0.22657997	2.6647412	21	2 15.4	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
312961 1997 SG_{30}	13.6	X	313.52610	63.87549	18.92699	6.13290	0.0823194	0.08215610	5.2405414	21	11 1.7	20.3
312962 1997 SM_{30}	14.0	X	0.89389	6.69931	19.46222	4.80799	0.2140013	0.08301919	5.2041570	21	11 5.5	19.7
312963 1997 YO_{8}	16.4	X	39.05508	20.77862	104.31501	15.83823	0.2183511	0.21538529	2.7562928	21	2 7.2	19.0
312964 1998 DU_{25}	17.2	X	294.05970	0.25239	19.91611	2.98510	0.1952294	0.27364767	2.3496772	21	7 19.9	19.7
312965 1998 EW_{9}	17.5	X	253.40825	347.41406	156.33753	4.83210	0.2386925	0.28124037	2.3071949	21	11 9.2	20.2
312966 1998 HE_{5}	17.2	X	183.60373	303.48089	262.45890	2.59815	0.1220308	0.27748298	2.3279759	21	11 22.2	20.3
312967 1998 QW_{28}	16.0	X	115.46427	63.48975	236.13673	5.00071	0.1546914	0.18326599	3.0695978	21	12 26.9	21.0
312968 1998 QS_{97}	14.9	X	52.22271	17.35486	330.99704	27.33197	0.1412586	0.17857627	3.1231071	21	12 21.8	19.8
312969 1998 SK_{34}	16.6	X	212.12726	347.59309	10.56001	16.64966	0.1421446	0.24146542	2.5540698	21	3 25.8	20.7
312970 1998 SZ_{34}	16.9	X	192.04045	27.38858	1.81511	15.83167	0.2352458	0.24127222	2.5554330	21	4 10.5	21.4
312971 1998 VE_{34}	16.9	X	130.90454	140.83465	291.86977	4.43362	0.3236048	0.23522183	2.5990680	21	4 23.2	21.4
312972 1998 WO	16.4	X	135.57054	18.65652	32.56731	14.12352	0.2412228	0.23441709	2.6050129	21	3 30.5	20.5
312973 1999 BX_{10}	16.6	X	47.28906	357.69845	140.27299	14.59829	0.1856799	0.22474897	2.6791945	21	3 12.2	19.3
312974 1999 CU_{8}	17.2	X	222.28441	102.34331	109.71731	29.33574	0.2847324	0.38572542	1.8690340	21	—	—
312975 1999 CZ_{70}	16.4	X	59.44651	285.09156	158.77256	11.64036	0.2447088	0.22275242	2.6951799	21	1 20.3	18.9
312976 1999 CN_{159}	16.0	X	28.03216	250.18127	314.49872	10.51987	0.2427938	0.22905589	2.6455039	21	5 6.0	18.3
312977 1999 FO_{73}	16.8	X	191.66084	149.11659	161.31843	3.63839	0.0732526	0.21513810	2.7584037	21	1 7.2	20.8
312978 1999 JG_{29}	14.9	X	155.65962	327.11259	221.35963	19.71445	0.4105499	0.15133686	3.4874359	21	9 22.2	21.7
312979 1999 KT_{4}	17.7	X	254.11884	127.67317	111.46979	2.29091	0.3669897	0.29926606	2.2135928	21	—	—
312980 1999 RK_{60}	15.9	X	244.19055	255.06208	135.43927	11.09556	0.2655871	0.26112107	2.4242353	21	5 28.1	20.1
312981 1999 RV_{123}	17.6	X	262.81012	34.79042	341.03579	4.88785	0.1215288	0.26173979	2.4204134	21	6 9.6	20.9
312982 1999 RC_{206}	16.6	X	235.08440	73.20089	313.28320	7.04453	0.2145854	0.25768789	2.4457198	21	5 13.8	20.7
312983 1999 RA_{236}	16.0	X	16.86735	239.64968	140.14177	17.07725	0.2654762	0.18372824	3.0644470	21	12 29.9	19.9
312984 1999 SH_{21}	17.1	X	124.56034	264.32199	6.06866	5.46760	0.2389410	0.27710236	2.3301072	21	12 15.8	21.1
312985 1999 TF_{45}	15.6	X	125.77386	296.31513	12.64418	11.23046	0.1075302	0.18901848	3.0069985	21	—	—
312986 1999 TU_{47}	17.7	X	72.19671	193.06082	85.14110	1.29015	0.2083893	0.27230235	2.3574100	21	11 8.4	21.1
312987 1999 TC_{63}	15.5	X	320.35739	13.81516	39.51884	9.99419	0.0771166	0.17794748	3.1304599	21	10 24.5	19.4
312988 1999 TA_{67}	17.7	X	346.40375	93.57706	250.15590	1.64790	0.0566393	0.26564516	2.3966325	21	9 10.8	20.4
312989 1999 TV_{72}	16.2	X	322.78720	314.18825	70.18582	6.52812	0.1392771	0.17401961	3.1773905	21	9 18.4	20.0
312990 1999 TQ_{77}	17.2	X	252.21511	127.46227	259.80842	0.51107	0.1923519	0.25830982	2.4417926	21	6 4.6	20.9
312991 1999 TZ_{126}	16.7	X	270.82184	145.47041	201.86654	2.45563	0.1877545	0.25853193	2.4403938	21	5 3.6	20.2
312992 1999 TU_{156}	17.2	X	209.38324	112.86493	294.15188	3.07161	0.2009439	0.25696957	2.4502755	21	5 19.4	21.2
312993 1999 TH_{170}	17.1	X	234.47789	136.53821	294.79230	1.16534	0.1971144	0.26039192	2.4287587	21	7 14.3	20.9
312994 1999 TG_{175}	17.3	X	294.45611	335.89475	22.82428	3.50228	0.2429866	0.26175082	2.4203454	21	6 8.9	20.2
312995 1999 TA_{191}	15.5	X	26.45620	52.52426	337.17411	10.38570	0.1341476	0.18451112	3.0557725	21	—	—
312996 1999 TJ_{237}	17.4	X	237.12636	310.86332	91.75596	1.82765	0.1530655	0.25937437	2.4351068	21	6 12.9	21.1
312997 1999 TG_{245}	17.3	X	264.54921	354.17904	4.41180	2.43429	0.2187170	0.25899672	2.4374734	21	5 7.1	20.8
312998 1999 TL_{250}	15.6	X	50.22366	9.84740	336.83735	9.24570	0.1339284	0.18498169	3.0505879	21	12 13.9	20.0
312999 1999 TU_{255}	17.5	X	280.73167	33.07982	358.13849	1.05823	0.1583873	0.26458930	2.4030042	21	7 21.0	20.4
313000 1999 TV_{262}	15.9	X	349.83243	342.73453	24.08226	12.36968	0.1059293	0.17780043	3.1321858	21	10 9.9	19.7
313001 1999 UH_{17}	17.3	X	274.98125	182.79923	194.79564	3.82720	0.1084124	0.26294165	2.4130322	21	6 30.6	20.4
313002 1999 UD_{33}	16.7	X	1.54430	5.69449	28.15052	1.33149	0.1240885	0.18188654	3.0850983	21	12 2.9	20.3
313003 1999 UX_{33}	15.6	X	167.59779	13.41900	213.80637	9.15147	0.0503827	0.18246987	3.0785198	21	11 22.1	20.1
313004 1999 UM_{44}	16.8	X	225.44678	31.52033	12.88933	11.21584	0.2704839	0.25653851	2.4530195	21	5 24.5	21.3
313005 1999 UZ_{46}	16.5	X	229.69944	11.35338	6.00278	6.18199	0.2667336	0.25489098	2.4635785	21	4 25.7	20.9
313006 1999 VY_{14}	15.7	X	309.72824	11.33587	5.66790	18.35903	0.2278927	0.17551633	3.1593012	21	8 9.8	19.8
313007 1999 VL_{16}	17.6	X	23.57106	302.91109	345.33373	2.80094	0.0244334	0.26286079	2.4135271	21	8 18.6	20.4
313008 1999 VD_{19}	16.2	X	242.68213	314.69139	56.78637	5.27685	0.2499384	0.25535256	2.4606088	21	5 2.0	20.3
313009 1999 VO_{62}	17.1	X	249.68887	346.89649	57.25778	2.21722	0.1872843	0.25924783	2.4358991	21	6 25.1	20.5
313010 1999 VJ_{106}	15.4	X	37.94552	352.45816	53.88252	10.41205	0.0665002	0.18592560	3.0402544	21	—	—
313011 1999 VA_{109}	15.7	X	315.12613	125.17968	248.57561	4.18520	0.1970452	0.17170743	3.2058510	21	8 9.1	19.5
313012 1999 VC_{137}	15.5	X	278.29453	60.20874	55.52312	9.92241	0.0111880	0.17988725	3.1079149	21	11 20.1	19.9
313013 1999 VB_{139}	17.3	X	163.24047	358.43508	133.25535	2.28182	0.1257860	0.25595570	2.4567418	21	7 25.6	20.8
313014 1999 VA_{188}	15.6	X	291.04589	7.30770	64.22963	17.23872	0.2189703	0.17362138	3.1822472	21	9 24.3	20.0
313015 1999 VP_{217}	17.2	X	240.27715	249.79170	159.05645	1.56302	0.1854313	0.25869996	2.4393370	21	6 21.5	20.9
313016 1999 VD_{223}	16.8	X	228.32546	283.11093	125.82150	4.79327	0.1901176	0.25677390	2.4515202	21	6 9.9	20.7
313017 1999 WJ_{5}	17.3	X	272.90416	166.18814	184.89608	2.13910	0.2286970	0.25907255	2.4369977	21	5 6.0	20.7
313018 1999 WU_{10}	17.4	X	198.69159	7.49422	90.75943	2.39118	0.1351125	0.25665940	2.4522492	21	7 18.2	21.0
313019 1999 WR_{19}	17.2	X	256.46371	32.56853	352.22860	0.89957	0.1921763	0.26082097	2.4260945	21	6 5.7	20.5
313020 1999 XZ_{37}	17.2	X	236.92785	47.65994	13.43071	2.52233	0.1838587	0.25741002	2.4474796	21	7 4.8	21.0
313021 1999 XS_{201}	16.1	X	161.20750	341.68086	56.08350	12.18451	0.2871839	0.24536418	2.5269420	21	4 7.8	20.6
313022 1999 YR_{12}	13.8	X	327.70857	121.43061	300.10642	9.84427	0.1506063	0.08216643	5.2401023	21	10 19.3	20.2
313023 2000 AN_{209}	16.2	X	261.18870	46.59310	73.63082	9.59305	0.0844289	0.17696881	3.1419908	21	10 28.4	20.6
313024 2000 AV_{210}	13.6	X	357.76020	302.86561	103.99803	8.82077	0.0848645	0.08320805	5.1962792	21	11 22.2	20.1
313025 2000 AT_{219}	17.0	X	280.72956	173.14336	309.46424	5.32777	0.0106781	0.22039654	2.7143522	21	12 8.9	20.7
313026 2000 CF_{45}	16.9	X	131.07745	339.17382	159.03247	13.56829	0.2074390	0.24642543	2.5196818	21	7 6.4	21.1
313027 2000 CC_{80}	17.1	X	36.18785	58.45203	155.10876	6.75731	0.1782912	0.24044394	2.5612983	21	6 6.9	19.6
313028 2000 DU_{4}	16.6	X	122.44703	79.51212	55.05821	4.78318	0.1458390	0.24505177	2.5290892	21	6 17.2	20.2
313029 2000 DP_{81}	16.4	X	13.67651	49.22917	129.36601	9.89498	0.1218645	0.23587914	2.5942373	21	2 27.9	19.1
313030 2000 DR_{96}	16.8	X	129.54913	317.47321	175.47767	2.56673	0.1668700	0.24610426	2.5218735	21	6 25.0	20.5
313031 2000 FA_{71}	16.7	X	9.57942	345.78494	202.01757	3.62032	0.0596990	0.23284279	2.6167417	21	3 6.9	20.0
313032 2000 GQ_{180}	18.0	X	226.35289	222.10134	34.21652	4.23244	0.0515315	0.31421239	2.1428273	21	—	—
313033 2000 JR_{4}	16.2	X	130.34517	307.48861	99.93283	16.04652	0.1140211	0.22624845	2.6673437	21	3 9.3	20.3
313034 2000 KM_{75}	15.9	X	60.73948	124.37018	99.65514	12.90931	0.2182305	0.24005162	2.5640882	21	8 14.6	19.2
313035 2000 OW_{35}	16.4	X	20.81925	130.13812	118.61968	10.45568	0.1662907	0.23682562	2.5873207	21	6 27.3	18.8
313036 2000 PL	17.3	X	85.67025	37.57479	296.55696	4.61614	0.2023719	0.29591706	2.2302628	21	—	—
313037 2000 PK_{3}	16.4	X	11.08484	71.69429	300.10118	22.02275	0.2468525	0.28952698	2.2629590	21	—	—
313038 2000 QH	16.8	X	121.46326	205.44519	145.46819	0.85923	0.0807587	0.20795715	2.8215439	21	—	—
313039 2000 QQ_{25}	16.6	X	11.89722	230.03593	147.10397	24.24023	0.2374540	0.28810041	2.2704231	21	—	—
313040 2000 QB_{60}	18.1	X	346.97722	52.10014	335.58737	1.40718	0.2642107	0.28589602	2.2820788	21	12 16.1	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313041 2000 QN_{70}	16.7	X	266.71483	251.51816	156.73055	22.99574	0.3049188	0.27524308	2.3405887	21	7 5.2	20.5
313042 2000 QA_{97}	16.6	X	6.24868	347.88844	12.09741	6.99796	0.2090885	0.28572861	2.2829701	21	12 1.3	18.8
313043 2000 QE_{137}	17.1	X	266.68117	79.09113	296.38734	19.71469	0.0963261	0.37163214	1.9159928	21	6 17.6	19.2
313044 2000 QA_{144}	17.3	X	16.66796	307.05382	74.20945	2.52535	0.2410113	0.28867497	2.2674095	21	—	—
313045 2000 QR_{148}	16.4	X	357.48049	248.98123	141.23518	21.95149	0.1948116	0.28800981	2.2708992	21	12 31.9	19.0
313046 2000 QH_{150}	16.1	X	319.33546	90.39469	318.83203	6.55713	0.2181317	0.28216458	2.3021541	21	10 26.6	17.6
313047 2000 QL_{200}	15.8	X	144.60256	338.97974	341.92773	13.61115	0.1494814	0.20615611	2.8379533	21	—	—
313048 2000 QX_{209}	17.9	X	302.36557	74.24279	308.49196	1.82314	0.2529232	0.27946374	2.3169628	21	7 27.5	19.8
313049 2000 QN_{210}	17.5	X	12.52141	201.82618	157.75522	5.85565	0.1802203	0.28706425	2.2758833	21	12 9.5	19.9
313050 2000 QE_{216}	16.7	X	324.51190	242.28224	141.08076	7.24157	0.1192424	0.28203500	2.3028592	21	10 7.6	18.8
313051 2000 RV_{36}	16.1	X	315.19395	357.48886	16.70395	25.90562	0.2123464	0.27755183	2.3275909	21	9 5.7	18.5
313052 2000 RL_{52}	15.9	X	15.12196	289.89514	318.16346	28.18853	0.3500453	0.23272537	2.6176218	21	7 11.8	17.8
313053 2000 RP_{73}	17.0	X	309.68246	19.04726	4.94013	5.03964	0.2374956	0.27893939	2.3198656	21	8 19.6	18.7
313054 2000 RU_{99}	17.6	X	54.36353	8.78237	320.30753	18.67103	0.0806716	0.38345380	1.8764083	21	—	—
313055 2000 SB_{10}	16.4	X	63.26003	10.66209	0.80156	25.71241	0.1220783	0.29254804	2.2473528	21	—	—
313056 2000 SZ_{28}	17.8	X	305.03231	165.15568	214.70103	9.21539	0.3171418	0.27791718	2.3255506	21	7 12.4	20.3
313057 2000 SU_{33}	15.6	X	328.29071	40.16825	17.62894	9.68243	0.0749744	0.19200073	2.9757799	21	11 10.2	19.5
313058 2000 SW_{36}	15.8	X	241.01740	277.79472	6.24202	13.85494	0.1773097	0.21379498	2.7699443	21	1 27.5	20.6
313059 2000 SL_{40}	17.6	X	331.39689	204.84519	156.32641	7.45812	0.2748532	0.28019432	2.3129336	21	9 2.0	18.5
313060 2000 SZ_{52}	17.2	X	305.93963	254.05860	156.23312	9.85562	0.1777773	0.28212101	2.3023911	21	10 6.1	19.1
313061 2000 SR_{59}	17.4	X	335.64267	168.57766	245.73422	1.74764	0.1628888	0.28626649	2.2801095	21	12 18.8	19.2
313062 2000 SS_{89}	17.0	X	10.05495	160.45896	193.32397	5.14508	0.1007483	0.28502492	2.2867262	21	11 13.9	19.3
313063 2000 SM_{103}	17.5	X	357.28705	42.88509	322.35172	1.08544	0.1903414	0.28405062	2.2919522	21	11 19.5	19.4
313064 2000 SU_{133}	17.3	X	313.93596	100.71816	300.36762	6.21343	0.2432374	0.28140652	2.3062866	21	9 22.9	19.0
313065 2000 SS_{144}	17.7	X	349.27721	65.26265	300.27844	1.46584	0.2496891	0.28278611	2.2987796	21	11 9.8	19.0
313066 2000 ST_{154}	16.8	X	326.54533	8.45412	38.37078	8.21520	0.1555553	0.28247243	2.3004811	21	11 13.9	18.4
313067 2000 SF_{160}	17.3	X	200.48348	270.28934	225.51910	20.51731	0.0663781	0.37514217	1.9040227	21	9 16.9	19.8
313068 2000 SE_{164}	16.9	X	268.15029	57.73814	18.96676	23.40988	0.1767096	0.27830030	2.3234158	21	9 15.7	19.9
313069 2000 SZ_{177}	16.9	X	298.15448	100.76322	329.96913	4.30463	0.2223407	0.28034080	2.3121278	21	10 9.5	18.8
313070 2000 SZ_{214}	17.3	X	329.89945	54.66874	2.21149	7.03961	0.1455808	0.28570157	2.2831142	21	12 7.6	19.3
313071 2000 SA_{224}	17.4	X	304.51720	220.02908	196.45634	4.61556	0.1684487	0.28130543	2.3068391	21	10 10.9	19.3
313072 2000 SE_{233}	17.8	X	295.74233	214.72003	200.17087	22.19221	0.0725404	0.37635467	1.8999311	21	10 22.2	19.0
313073 2000 SZ_{235}	16.9	X	31.86179	196.20669	124.30536	5.44669	0.1808016	0.28386065	2.2929747	21	11 14.5	19.5
313074 2000 SS_{236}	17.3	X	356.25245	10.16925	16.38990	7.20455	0.1727679	0.28535343	2.2849708	21	12 17.7	19.5
313075 2000 SN_{240}	16.9	X	325.34610	186.95709	225.85040	24.97878	0.2286021	0.28409671	2.2917043	21	11 24.7	18.2
313076 2000 SU_{252}	15.8	X	309.40919	314.97283	33.94790	11.64819	0.2194731	0.18102353	3.0948958	21	6 24.5	19.9
313077 2000 SU_{319}	16.2	X	27.21245	130.96259	263.09215	13.71898	0.2105071	0.19502883	2.9448974	21	—	—
313078 2000 SJ_{366}	17.3	X	179.82067	147.18319	11.07677	21.39095	0.0371339	0.37605033	1.9009560	21	10 3.4	18.8
313079 2000 SP_{376}	17.0	X	26.30045	98.63450	260.79712	6.72910	0.1379608	0.28953265	2.2629295	21	12 22.9	19.4
313080 2000 TB_{11}	17.5	X	0.22420	17.97156	18.74677	5.75152	0.1268510	0.28710991	2.2756419	21	—	—
313081 2000 TJ_{16}	17.2	X	309.72076	11.27865	36.60995	5.37249	0.2139376	0.28043742	2.3115968	21	10 4.3	18.6
313082 2000 TR_{20}	16.9	X	318.07454	256.52369	90.76844	7.77183	0.1435205	0.27685742	2.3314813	21	7 21.9	19.1
313083 2000 TB_{25}	17.4	X	27.19661	39.20327	304.13087	1.51158	0.1894795	0.28579250	2.2826299	21	12 9.3	20.0
313084 2000 TH_{35}	15.4	X	316.41448	328.48337	37.04800	11.65799	0.0522445	0.18144000	3.0901580	21	8 25.7	19.7
313085 2000 TB_{45}	17.8	X	331.87817	308.13952	66.06243	5.34134	0.2795535	0.28175549	2.3043819	21	10 5.9	18.5
313086 2000 TR_{67}	17.6	X	30.53172	38.00641	303.75594	1.14463	0.2454900	0.28587540	2.2821886	21	12 20.6	20.4
313087 2000 UD_{12}	17.4	X	8.39105	243.09891	117.54345	10.02769	0.2797042	0.28534284	2.2850273	21	12 21.0	19.7
313088 2000 UQ_{21}	17.7	X	340.00233	177.17288	177.26776	4.50332	0.2905042	0.28012054	2.3133397	21	9 21.1	18.3
313089 2000 UP_{56}	17.3	X	227.18807	39.98208	347.75802	2.18011	0.2051582	0.26822596	2.3812346	21	5 9.8	21.1
313090 2000 UY_{67}	16.6	X	307.66545	151.83611	273.28016	7.84896	0.1950634	0.28176517	2.3043291	21	10 25.7	18.4
313091 2000 UM_{70}	16.9	X	274.46070	150.46332	301.43220	2.12954	0.1798450	0.27924456	2.3181751	21	10 4.7	19.2
313092 2000 UG_{73}	16.8	X	315.20647	110.02812	251.33031	4.30956	0.1385721	0.27592171	2.3367494	21	8 5.9	19.0
313093 2000 UC_{95}	15.4	X	314.03064	156.41133	246.13096	10.54233	0.2881298	0.18347311	3.0672872	21	8 30.1	18.9
313094 2000 US_{100}	16.0	X	3.38125	335.59054	37.18064	9.75977	0.2810033	0.18771772	3.0208735	21	11 27.3	19.0
313095 2000 VY_{1}	17.2	X	205.33261	249.86885	224.38795	21.21980	0.1068027	0.36815766	1.9280287	21	8 13.5	20.3
313096 2000 VL_{10}	17.1	X	336.93856	331.15328	59.57451	6.17370	0.2378011	0.28211228	2.3024386	21	11 18.9	18.3
313097 2000 VR_{40}	17.2	X	335.51404	109.06558	275.86761	4.87568	0.1685026	0.28160188	2.3052198	21	10 28.5	19.0
313098 2000 VR_{64}	17.1	X	255.79945	250.59034	203.04368	6.03541	0.2185778	0.27556368	2.3387730	21	9 2.3	20.4
313099 2000 WO_{29}	17.7	X	231.34816	243.44160	231.08085	20.06851	0.0776376	0.37231088	1.9136635	21	9 27.9	20.1
313100 2000 WS_{46}	16.3	X	300.39162	211.91446	202.39428	5.99560	0.2841646	0.18139375	3.0906833	21	8 24.9	20.0
313101 2000 WC_{70}	16.5	X	320.74149	8.68000	357.55435	8.21894	0.2982718	0.18254774	3.0776442	21	7 29.9	19.7
313102 2000 WQ_{70}	17.4	X	272.76306	85.42693	355.56557	6.29959	0.1605232	0.27777480	2.3263452	21	9 20.2	20.0
313103 2000 WD_{76}	17.3	X	317.46644	30.19623	12.97834	2.77896	0.1624244	0.27972932	2.3154961	21	10 17.9	19.0
313104 2000 WE_{76}	17.6	X	281.85818	83.22491	14.82893	2.76196	0.1654608	0.28036063	2.3120188	21	10 30.4	19.8
313105 2000 WQ_{89}	17.2	X	283.33593	348.01510	60.54226	5.22087	0.2051372	0.27519093	2.3408844	21	8 14.3	19.8
313106 2000 WT_{96}	16.8	X	237.46344	343.36893	81.89848	7.76010	0.2345310	0.26986379	2.3715902	21	7 5.9	20.4
313107 2000 WF_{151}	17.1	X	299.67777	156.49829	248.03547	19.20760	0.1025251	0.37463954	1.9057253	21	9 26.4	19.0
313108 2000 WY_{152}	17.1	X	258.70299	68.34650	30.37578	11.74297	0.1514594	0.27791245	2.3255770	21	9 30.2	19.9
313109 2000 WP_{176}	15.7	X	5.00344	359.82201	70.96301	11.09313	0.1059048	0.19194727	2.9763324	21	—	—
313110 2000 XC_{6}	15.3	X	308.80689	345.57245	52.39923	20.39378	0.2071063	0.18090533	3.0962437	21	9 14.2	19.4
313111 2000 XF_{9}	16.0	X	215.78086	223.86072	297.89932	23.66038	0.1930932	0.27426516	2.3461492	21	10 9.4	20.2
313112 2000 XG_{44}	17.4	X	271.41511	120.50286	281.85507	15.97420	0.2350126	0.36912479	1.9246595	21	7 11.5	19.3
313113 2000 XP_{44}	17.6	X	170.88488	280.97937	247.17977	2.12944	0.0863791	0.27276082	2.3547676	21	9 20.5	21.0
313114 2000 YV_{15}	17.3	X	258.66217	2.94693	73.06101	4.00882	0.2754783	0.27195444	2.3594201	21	8 7.7	20.6
313115 2000 YL_{17}	15.7	X	328.40304	188.19617	288.68065	10.00587	0.3258690	0.18952851	3.0016014	21	—	—
313116 Pálvenetianer	17.9	X	245.51575	149.26315	312.10303	0.85127	0.1429386	0.27296543	2.3535907	21	9 12.7	21.1
313117 2000 YE_{40}	17.2	X	203.97220	3.33563	115.23712	5.50471	0.1832090	0.26843267	2.3800119	21	8 17.9	20.8
313118 2000 YY_{106}	15.2	X	270.13130	348.82472	90.67103	19.83041	0.1228593	0.17854087	3.1235199	21	9 20.6	19.9
313119 2000 YP_{114}	15.6	X	275.13340	18.84085	100.39019	17.93379	0.1348089	0.18249306	3.0782589	21	11 11.6	20.0
313120 2000 YF_{123}	17.6	X	203.21475	2.44899	104.00693	2.47354	0.1944503	0.26726114	2.3869620	21	7 30.9	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313121 2000 YV_{123}	15.5	X	198.91197	231.00641	318.57321	7.54380	0.1190469	0.17814118	3.1281903	21	11 1.9	20.6
313122 2000 YU_{137}	16.9	X	242.49726	79.69093	332.75429	18.22323	0.1092823	0.36310337	1.9458792	21	7 13.1	19.4
313123 2001 AK_2	16.9	X	54.02839	99.95102	110.81469	24.25687	0.0488649	0.35742876	1.9664205	21	6 16.2	18.9
313124 2001 AL_2	17.3	X	225.58455	158.23530	274.42544	18.82228	0.0968769	0.36301416	1.9461979	21	7 14.5	19.7
313125 2001 AQ_6	16.7	X	305.01453	300.51874	100.04822	7.53804	0.1956889	0.27470950	2.3436186	21	9 15.4	18.8
313126 2001 AL_{46}	16.1	X	184.38068	172.51081	356.90097	25.87220	0.1585649	0.27135462	2.3628958	21	9 29.6	19.9
313127 2001 AD_{47}	16.3	X	255.46875	41.09399	57.03900	24.17772	0.2370774	0.27240686	2.3568070	21	9 23.9	20.0
313128 2001 BB_1	17.2	X	278.79720	257.32274	132.55370	24.09703	0.1108425	0.36384075	1.9432492	21	7 27.2	18.8
313129 2001 BG_2	15.8	X	218.29003	99.63813	334.17768	24.58575	0.0830162	0.26075452	2.4265067	21	7 18.4	19.6
313130 2001 BN_3	15.9	X	270.62395	197.07981	253.43938	6.43946	0.2403813	0.17710715	3.1403543	21	9 4.4	20.4
313131 2001 BT_6	15.0	X	229.57236	280.17747	305.38253	18.67524	0.1180530	0.18822886	3.0154022	21	—	—
313132 2001 BF_{56}	16.6	X	274.63638	304.44963	98.27826	4.32605	0.2399520	0.26933400	2.3746992	21	7 15.7	19.4
313133 2001 BA_{74}	16.2	X	133.07837	272.52219	303.49007	20.60259	0.2832970	0.26499797	2.4005330	21	10 6.8	21.0
313134 2001 BJ_{83}	15.7	X	244.45900	74.52129	113.61243	16.03935	0.2751013	0.18036502	3.1024241	21	12 4.6	20.6
313135 2001 CW_5	17.0	X	227.61310	105.05659	23.72200	1.72023	0.1269919	0.27070860	2.3666535	21	9 30.6	20.2
313136 2001 CX_9	17.3	X	202.36462	123.53230	326.70374	18.66902	0.0749359	0.35909297	1.9603402	21	7 20.7	19.8
313137 2001 CE_{11}	15.3	X	252.61031	138.31484	323.40045	16.06741	0.1606333	0.17531021	3.1617770	21	9 6.9	20.1
313138 2001 CV_{18}	14.9	X	174.84478	69.04175	129.90718	15.80135	0.1697213	0.17567939	3.1573460	21	10 28.7	20.4
313139 2001 CZ_{24}	16.1	X	275.81517	132.19803	346.20038	5.71081	0.2291986	0.18168557	3.0873729	21	10 19.3	20.3
313140 2001 CE_{27}	15.5	X	324.37155	358.74609	61.78914	7.40679	0.2610791	0.18139926	3.0906207	21	10 30.4	18.4
313141 2001 CK_{31}	15.8	X	305.34051	292.46559	138.42178	16.53195	0.2653754	0.17985102	3.1083323	21	10 6.2	19.5
313142 2001 DM_2	13.3	X	357.06477	53.99780	335.47165	14.09150	0.0442706	0.07990691	5.3384251	21	10 24.1	20.2
313143 2001 DT_5	15.6	X	280.59270	333.29715	134.65167	27.11846	0.2527519	0.18003387	3.1062274	21	10 20.2	20.2
313144 2001 DZ_7	17.0	X	175.02535	204.35177	323.06346	6.58689	0.0532325	0.26827606	2.3809381	21	9 23.5	20.2
313145 2001 DA_9	17.0	X	96.94981	217.78599	338.67245	18.24399	0.0449155	0.35691401	1.9683107	21	8 6.0	19.1
313146 2001 DH_{13}	17.1	X	184.82442	330.65510	153.55396	25.63417	0.0840293	0.35873998	1.9616259	21	8 12.1	19.6
313147 2001 DY_{13}	15.5	X	240.88654	30.60402	134.99303	12.97781	0.0797684	0.18143672	3.0901953	21	11 29.0	20.1
313148 2001 DU_{14}	15.2	X	257.90878	188.83094	340.66637	16.76344	0.1861046	0.18129536	3.0918014	21	12 3.4	19.8
313149 2001 DW_{17}	15.3	X	177.03928	64.19003	137.08474	15.87535	0.1818644	0.17359096	3.1826189	21	11 1.2	20.8
313150 2001 DG_{18}	17.1	X	175.48582	139.64156	348.69430	18.84076	0.1178095	0.35920487	1.9599330	21	8 13.8	19.8
313151 2001 DZ_{42}	17.0	X	226.19159	335.11289	148.68781	1.56817	0.1230556	0.26914869	2.3757890	21	9 22.6	20.3
313152 2001 DU_{54}	15.6	X	150.77443	268.81085	329.22653	10.40326	0.0593653	0.17725465	3.1386119	21	11 11.9	20.6
313153 2001 DX_{54}	17.7	X	262.05476	46.15579	342.69492	1.82083	0.1870745	0.26400173	2.4065684	21	6 18.2	21.0
313154 2001 DY_{58}	14.9	X	189.37324	174.57743	59.87178	27.01140	0.1988444	0.17631761	3.1497222	21	12 9.4	20.3
313155 2001 DB_{62}	15.0	X	213.04120	195.18458	325.52892	20.19114	0.0647416	0.17622409	3.1508364	21	10 9.7	20.1
313156 2001 DS_{72}	15.9	X	212.99731	28.67730	164.93048	7.65517	0.2206278	0.17790788	3.1309245	21	11 16.5	21.1
313157 2001 DB_{73}	15.4	X	204.86695	245.03889	340.86126	25.74597	0.2076837	0.17892866	3.1190053	21	12 15.7	20.9
313158 2001 DD_{83}	16.0	X	166.90406	60.66028	160.04609	10.61941	0.0589546	0.17460394	3.1702975	21	11 14.5	20.9
313159 2001 DZ_{101}	17.0	X	243.82879	358.51592	106.44657	6.33554	0.1406176	0.26980420	2.3719393	21	9 19.2	20.2
313160 2001 DF_{103}	15.6	X	205.25782	48.86560	117.53105	18.03596	0.2322044	0.17548571	3.1596686	21	10 14.8	21.2
313161 2001 EE_{17}	14.9	X	236.09057	77.12562	82.44039	26.42672	0.2223443	0.17769969	3.1333694	21	11 6.7	20.1
313162 2001 FS	16.5	X	70.95828	95.11222	141.66365	12.34014	0.2699723	0.25624703	2.4548794	21	9 23.2	20.1
313163 2001 FX_{15}	15.7	X	249.86105	303.64935	180.31004	17.05339	0.2773790	0.17576766	3.1562888	21	9 21.4	20.7
313164 2001 FB_{29}	15.4	X	317.18603	100.42691	10.73931	26.14371	0.2129105	0.18214203	3.0822127	21	12 25.4	19.2
313165 2001 FC_{65}	17.5	X	177.36741	40.24857	125.39536	5.59347	0.1670645	0.26533543	2.3984972	21	9 24.4	21.3
313166 2001 FW_{66}	15.2	X	230.23096	358.65131	163.47019	15.95299	0.1298471	0.17514163	3.1638056	21	11 6.5	20.2
313167 2001 FT_{83}	17.7	X	107.03455	230.84868	352.75337	1.77784	0.1936738	0.26193086	2.4192362	21	10 1.3	21.5
313168 2001 FU_{136}	16.8	X	120.91857	106.99684	124.21641	10.47881	0.2412777	0.26235288	2.4166411	21	10 30.4	21.1
313169 2001 FU_{171}	14.7	X	230.89827	147.67006	39.33270	29.57247	0.1947481	0.17708878	3.1405715	21	11 19.3	19.8
313170 2001 FC_{187}	15.2	X	146.12232	270.48977	357.96360	6.20823	0.1351360	0.17511763	3.1640947	21	12 16.3	20.4
313171 2001 HF_{68}	15.4	X	229.27850	89.78033	73.35840	25.42813	0.3137823	0.17402160	3.1773662	21	10 27.5	21.1
313172 2001 KQ_{23}	16.4	X	158.43581	133.72871	55.50558	7.37496	0.1597363	0.26113369	2.4241572	21	10 7.2	20.2
313173 2001 ME_6	16.4	X	237.07824	9.48682	309.98423	12.14311	0.1569134	0.23167835	2.6255023	21	2 25.3	20.6
313174 2001 MV_{11}	16.6	X	293.90779	343.13397	328.55132	8.34313	0.1607638	0.23922525	2.5699896	21	4 14.7	20.3
313175 2001 MB_{15}	16.4	X	300.61680	174.30490	116.03733	14.92889	0.2516251	0.23696046	2.5863390	21	3 23.7	20.3
313176 2001 MH_{22}	16.3	X	312.25179	17.62787	289.14809	13.39157	0.1585857	0.24121640	2.5558273	21	5 3.9	19.8
313177 2001 OB_3	16.1	X	335.56964	350.34233	307.19578	5.71301	0.2146726	0.24310920	2.5425439	21	5 26.8	18.4
313178 2001 OY_{43}	16.1	X	294.12358	355.65157	327.88857	9.12815	0.2265297	0.23654879	2.5893389	21	4 20.9	19.9
313179 2001 OK_{44}	16.2	X	104.20133	90.59321	295.85008	8.59148	0.3206895	0.21472885	2.7619075	21	2 2.9	20.0
313180 2001 OA_{69}	16.6	X	341.59420	168.39113	129.68792	3.28775	0.1932108	0.24411701	2.5355413	21	6 14.9	18.9
313181 2001 OD_{74}	17.8	X	110.75550	20.86046	321.22665	7.73428	0.2856404	0.31249588	2.1506671	21	—	—
313182 2001 ON_{86}	16.2	X	342.18134	171.57944	120.05740	14.36639	0.1820349	0.24239835	2.5475122	21	6 9.8	18.8
313183 2001 OU_{107}	16.2	X	318.90841	262.41084	40.91747	3.83186	0.2523476	0.24056954	2.5604067	21	4 28.3	18.9
313184 2001 PZ_5	16.3	X	278.85314	178.12620	126.28488	8.72219	0.2174847	0.23404647	2.6077622	21	3 19.7	20.3
313185 2001 PC_{24}	16.6	X	346.73868	222.02019	66.76918	6.11461	0.2481668	0.24237914	2.5476468	21	6 5.0	18.2
313186 2001 PV_{30}	16.3	X	291.49716	181.40593	108.49394	14.47834	0.2565409	0.23585769	2.5943946	21	3 12.2	20.4
313187 2001 QK_2	15.6	X	258.79813	11.78165	340.67201	14.26949	0.2111033	0.23597573	2.5935293	21	4 19.7	19.9
313188 2001 QG_{44}	16.1	X	279.76225	185.90470	139.88864	14.91396	0.1951453	0.23729604	2.5839001	21	4 21.6	20.1
313189 2001 QR_{91}	17.0	X	160.28138	214.82022	122.53750	7.85388	0.2936191	0.22212093	2.7002858	21	1 24.2	21.7
313190 2001 QA_{92}	16.3	X	99.96928	42.24435	2.35995	9.33541	0.2462481	0.21945879	2.7220790	21	2 13.1	19.9
313191 2001 QE_{103}	16.7	X	190.35797	211.78969	135.69378	7.27080	0.2161405	0.22726549	2.6593799	21	2 24.1	21.3
313192 2001 QT_{113}	16.3	X	178.70278	32.77150	316.22758	11.31333	0.1367960	0.22304101	2.6928546	21	2 11.4	20.5
313193 2001 QO_{115}	16.2	X	137.50531	45.46636	310.40573	6.57247	0.2907477	0.21812268	2.7331838	21	1 27.7	20.4
313194 2001 QR_{115}	15.9	X	291.04892	322.11087	323.80811	14.49852	0.1280150	0.23191134	2.6237436	21	3 12.7	19.7
313195 2001 QH_{158}	16.3	X	64.91502	56.55608	329.43090	15.30632	0.2823413	0.21104115	2.7939886	21	—	—
313196 2001 QK_{173}	16.4	X	301.64821	83.36201	184.91004	14.55303	0.1295269	0.23233251	2.6205718	21	3 6.4	20.1
313197 2001 QU_{187}	15.8	X	154.93211	78.30837	276.53066	12.87365	0.2244514	0.22021437	2.7158489	21	1 31.7	20.3
313198 2001 QV_{202}	16.7	X	167.08613	1.79998	343.13750	11.70330	0.2023458	0.22307745	2.6925613	21	2 3.8	21.2
313199 2001 QV_{206}	16.3	X	117.05974	29.38944	348.42544	8.96293	0.1803622	0.21844281	2.7305128	21	1 21.7	20.1
313200 2001 QH_{217}	16.7	X	290.56235	153.40145	157.05050	13.84365	0.1847298	0.23543113	2.5975273	21	4 13.9	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313201 2001 QU_{230}	16.5	X	320.94870	348.21731	307.06967	10.45103	0.1473530	0.23843964	2.5756316	21	5 3.6	19.8
313202 2001 RV	16.1	X	232.70518	14.67897	340.59217	11.46072	0.1946910	0.23146092	2.6271463	21	4 3.4	20.6
313203 2001 RC_{7}	15.9	X	234.27097	314.99843	13.17113	11.77210	0.3021387	0.22838123	2.6507114	21	3 7.1	20.8
313204 2001 RW_{49}	16.5	X	143.81520	54.22976	327.21829	11.28491	0.1300134	0.22191577	2.7019498	21	2 15.9	20.3
313205 2001 RU_{50}	16.4	X	163.08756	22.79795	340.08233	12.87635	0.1090011	0.22245885	2.6975505	21	2 13.5	20.5
313206 2001 RS_{52}	15.2	X	170.16604	219.26558	121.79242	3.37951	0.2673132	0.12224725	4.0207770	21	2 13.9	22.0
313207 2001 RW_{82}	16.9	X	128.47474	35.42015	321.14166	7.83563	0.2272807	0.21713374	2.7414763	21	1 13.9	20.9
313208 2001 RR_{96}	16.3	X	278.55515	123.96277	168.00756	14.31666	0.1012781	0.23164539	2.6257514	21	3 15.1	20.0
313209 2001 RT_{152}	16.3	X	46.10185	265.05321	166.93187	25.32949	0.2850840	0.21163977	2.7887175	21	—	—
313210 2001 SW_{1}	17.5	X	72.75824	21.25063	355.94514	5.38135	0.1918302	0.31001718	2.1621154	21	—	—
313211 2001 SM_{41}	16.9	X	91.77830	60.43853	356.79061	7.30043	0.1113559	0.21826262	2.7320154	21	1 27.7	20.3
313212 2001 SY_{98}	16.4	X	78.15500	265.21256	184.67266	11.36922	0.0424386	0.22192942	2.7018390	21	2 5.2	20.0
313213 2001 SD_{137}	16.4	X	140.47276	26.25916	349.16913	4.75570	0.1304086	0.21966867	2.7203449	21	2 6.5	20.2
313214 2001 SX_{143}	16.6	X	151.48646	28.80682	328.26631	4.90253	0.0760130	0.21986728	2.7187064	21	1 20.5	20.4
313215 2001 SB_{193}	15.4	X	206.64504	180.87522	145.01769	3.38364	0.1904945	0.12528123	3.9555971	21	2 21.7	21.8
313216 2001 SA_{222}	17.1	X	92.63186	212.34925	155.64516	4.85818	0.2136144	0.21211739	2.7845297	21	—	—
313217 2001 SH_{233}	16.4	X	112.89201	350.42226	34.30890	10.36555	0.1990138	0.21631220	2.7484133	21	1 29.6	20.3
313218 2001 SF_{250}	16.3	X	54.57643	18.84852	42.85390	7.86746	0.1252293	0.21121875	2.7924221	21	—	—
313219 2001 SU_{271}	16.4	X	273.66404	71.05854	214.61676	7.18467	0.2160104	0.22868556	2.6483592	21	2 14.9	20.8
313220 2001 SC_{284}	15.4	X	201.15987	168.56742	171.31472	2.44364	0.1440304	0.12527811	3.9556628	21	3 4.9	21.7
313221 2001 SS_{306}	17.4	X	90.47663	129.44747	273.91257	2.37938	0.2067163	0.21497321	2.7598140	21	1 20.2	20.6
313222 2001 SF_{338}	16.9	X	86.81057	35.92580	357.04049	4.47158	0.1201720	0.21414917	2.7668893	21	—	—
313223 2001 SZ_{341}	16.3	X	242.99601	354.00642	328.87215	14.44653	0.1142974	0.22869967	2.6482503	21	3 9.7	20.4
313224 2001 SK_{344}	16.6	X	97.47596	91.06019	291.64355	8.08299	0.1712076	0.21528650	2.7571360	21	—	—
313225 2001 TG_{60}	16.4	X	131.42073	336.68470	34.40218	12.30362	0.1975056	0.21674951	2.7447153	21	2 3.6	20.7
313226 2001 TY_{82}	16.5	X	118.54262	29.49018	1.83482	13.78747	0.1455827	0.21783838	2.7355613	21	2 7.3	20.4
313227 2001 TW_{108}	16.2	X	100.98822	66.08046	334.80351	6.52404	0.0971448	0.21550821	2.7552447	21	1 17.2	19.7
313228 2001 TM_{121}	16.1	X	152.78965	132.72643	257.11091	13.07281	0.0905660	0.22091037	2.7101416	21	2 25.3	20.3
313229 2001 TJ_{152}	17.6	X	28.99878	287.14633	124.91013	3.86901	0.1009872	0.30656846	2.1783002	21	—	—
313230 2001 TJ_{189}	16.1	X	102.08812	30.08319	358.16879	7.82425	0.1602611	0.21265874	2.7798021	21	1 13.2	19.8
313231 2001 TN_{203}	15.8	X	130.46582	243.88090	142.32809	14.13403	0.2161144	0.21917273	2.7244471	21	2 18.5	19.8
313232 2001 TL_{211}	16.1	X	229.85128	9.45731	337.19644	13.60247	0.0895545	0.22902374	2.6457514	21	3 26.1	20.3
313233 2001 TG_{236}	16.7	X	155.88993	245.50691	95.80238	7.74958	0.3156818	0.21748106	2.7385568	21	1 28.6	21.4
313234 2001 TD_{241}	17.5	X	5.41572	90.98996	19.90786	4.01443	0.0885299	0.30987760	2.1627646	21	—	—
313235 2001 TN_{244}	17.3	X	96.99484	78.31753	334.57175	4.26028	0.1104740	0.21874817	2.7279711	21	1 27.8	20.6
313236 2001 TB_{259}	16.9	X	167.71355	241.39470	110.77874	5.88744	0.1233565	0.22031915	2.7149878	21	2 5.5	20.9
313237 2001 TJ_{260}	16.9	X	266.26378	104.23371	144.05409	4.23946	0.0397569	0.21953705	2.7214321	21	1 13.3	20.8
313238 2001 UF_{9}	16.4	X	108.40740	341.34780	44.61679	9.63691	0.2097617	0.21442279	2.7645349	21	1 26.8	20.2
313239 2001 UY_{30}	16.1	X	49.05474	20.28686	33.09173	10.22243	0.1206006	0.21038329	2.7998099	21	—	—
313240 2001 US_{37}	17.3	X	101.11689	128.95759	243.91368	6.56402	0.2856873	0.21337198	2.7736040	21	1 8.5	20.8
313241 2001 UC_{46}	15.6	X	73.13125	347.25378	48.18819	14.63226	0.1847040	0.21015883	2.8018032	21	—	—
313242 2001 UM_{67}	17.8	X	51.41413	14.67764	68.27099	2.29312	0.0665883	0.31403538	2.1436325	21	—	—
313243 2001 UZ_{72}	16.7	X	83.29752	319.59610	50.45078	8.85892	0.2342304	0.20986293	2.8044362	21	—	—
313244 2001 UW_{88}	16.7	X	76.19890	229.60665	158.38504	8.18680	0.2269513	0.21011712	2.8021740	21	—	—
313245 2001 UH_{98}	17.1	X	50.87963	7.49244	56.30571	8.80267	0.2177295	0.20975335	2.8054129	21	—	—
313246 2001 UN_{138}	16.7	X	36.88715	234.50620	210.43738	5.44218	0.0715292	0.21185116	2.7868621	21	—	—
313247 2001 UO_{138}	17.0	X	97.60419	331.29704	39.83799	0.91967	0.2096517	0.21172741	2.7879480	21	—	—
313248 2001 UR_{144}	16.3	X	41.69259	276.27943	165.91462	2.88471	0.1767107	0.20993376	2.8038054	21	—	—
313249 2001 UC_{202}	16.6	X	123.23683	97.31941	332.15144	1.88963	0.0722272	0.22218013	2.6998060	21	3 16.5	20.4
313250 2001 UQ_{202}	16.8	X	81.12258	111.75636	301.17334	2.66356	0.1102975	0.21380929	2.7698207	21	1 5.4	20.2
313251 2001 UE_{224}	16.8	X	171.74899	65.30099	268.98643	7.48031	0.2128277	0.21971168	2.7199899	21	1 23.2	21.4
313252 2001 VS_{28}	17.2	X	58.09598	129.84625	250.74802	4.97609	0.1956418	0.30541259	2.1837928	21	—	—
313253 2001 VS_{89}	18.0	X	59.22134	96.85666	284.78254	4.42147	0.1724219	0.30668359	2.1777550	21	—	—
313254 2001 VP_{101}	17.6	X	64.28783	344.60578	7.56964	3.38280	0.2053923	0.30441597	2.1885565	21	—	—
313255 2001 VM_{106}	16.5	X	16.51787	195.87029	234.09812	13.16837	0.2134944	0.20512356	2.8474691	21	—	—
313256 2001 VX_{126}	16.6	X	119.66609	292.67417	86.58213	6.58886	0.0105921	0.21565267	2.7540141	21	—	—
313257 2001 VJ_{133}	16.9	X	152.34190	249.91834	96.36594	7.23187	0.0741750	0.21592652	2.7516851	21	1 8.2	20.7
313258 2001 WK_{18}	18.0	X	359.63570	52.87989	358.56410	1.83859	0.1657084	0.30177288	2.2013170	21	—	—
313259 2001 WX_{61}	16.7	X	92.77867	129.55589	239.01918	8.71127	0.2083681	0.20921259	2.8102449	21	—	—
313260 2001 WZ_{90}	17.7	X	57.87120	3.66186	359.68032	4.29838	0.2205082	0.30444684	2.1884085	21	—	—
313261 2001 XP_{12}	16.2	X	47.11550	63.63623	30.69067	7.82770	0.2008690	0.20968419	2.8060297	21	1 12.0	19.0
313262 2001 XF_{33}	16.7	X	268.33664	70.32882	115.31259	5.67902	0.1254018	0.29926514	2.2135974	21	—	—
313263 2001 XD_{69}	15.8	X	50.20427	17.02840	66.80717	10.07540	0.1343877	0.21168232	2.7883438	21	—	—
313264 2001 XK_{123}	17.2	X	46.17681	171.95858	219.26122	5.43228	0.0753754	0.30435757	2.1888364	21	—	—
313265 2001 XC_{125}	16.2	X	98.65570	314.85785	101.18527	6.37786	0.0237012	0.21463766	2.7626896	21	1 22.6	19.9
313266 2001 XG_{174}	17.8	X	4.82655	299.12818	151.57977	2.59719	0.1620004	0.30285877	2.1960520	21	—	—
313267 2001 XN_{218}	15.8	X	118.28862	85.81681	249.74020	15.85813	0.1792084	0.20932828	2.8092094	21	—	—
313268 2001 XR_{236}	17.5	X	43.98189	325.72279	69.78449	5.56867	0.1724562	0.30401390	2.1904857	21	—	—
313269 2001 YF	15.7	X	29.52376	122.87932	253.77749	3.24958	0.4227617	0.19843292	2.9111208	21	—	—
313270 2001 YL_{12}	17.5	X	356.94931	72.75184	12.83453	6.01388	0.0860372	0.30281574	2.1962600	21	—	—
313271 2001 YF_{63}	17.5	X	24.29451	354.04329	76.49274	4.27035	0.1231688	0.30364513	2.1922589	21	—	—
313272 2001 YM_{87}	15.1	X	177.78739	239.80937	277.17928	12.84130	0.2873264	0.17871604	3.1214786	21	8 29.7	21.0
313273 2001 YY_{94}	15.7	X	279.89585	190.68645	284.80976	8.79923	0.0561680	0.19229587	2.9727342	21	11 17.0	19.8
313274 2001 YW_{154}	15.7	X	351.09600	189.68586	322.59928	14.19361	0.0924516	0.20591733	2.8401468	21	—	—
313275 2001 YJ_{162}	15.9	X	321.26447	47.04880	67.88086	11.77617	0.0928908	0.19787071	2.9166324	21	—	—
313276 2002 AX_{1}	19.7	X	319.08827	25.35132	294.69878	33.00205	0.5417660	1.19412582	0.8799054	21	1 15.7	18.0
313277 2002 AN_{24}	15.7	X	338.15684	290.06368	117.02047	25.16011	0.1624377	0.19245622	2.9710828	21	11 24.4	19.5
313278 2002 AL_{34}	15.9	X	294.70206	161.69753	339.23461	14.62497	0.1760060	0.19238111	2.9718560	21	12 30.9	19.6
313279 2002 AF_{110}	17.3	X	273.36387	50.22037	100.49660	5.22094	0.0722864	0.29513055	2.2342234	21	—	—
313280 2002 AK_{112}	17.2	X	356.78108	114.31430	305.07303	4.09322	0.1259106	0.29584670	2.2306165	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313281 2002 AR_{170}	16.7	X	342.01201	180.81513	320.99737	7.75988	0.1563501	0.20274739	2.8696738	21	—	—
313282 2002 AB_{192}	17.7	X	341.68829	121.30464	293.47747	4.36750	0.3103647	0.19480725	2.9471301	21	12 12.2	19.7
313283 2002 AR_{206}	15.8	X	43.94795	304.29476	139.52552	13.09123	0.1936862	0.21013522	2.8020130	21	—	—
313284 2002 CO_{4}	17.2	X	14.73159	64.48230	328.01599	4.79498	0.2064318	0.29483921	2.2356950	21	—	—
313285 2002 CY_{19}	17.4	X	262.50790	66.38358	99.80047	6.23487	0.0860955	0.29412248	2.2393256	21	—	—
313286 2002 CA_{27}	16.3	X	10.23989	328.88376	77.56908	4.84388	0.3213592	0.19748322	2.9204465	21	—	—
313287 2002 CL_{28}	15.9	X	288.50141	356.96654	107.39419	12.58407	0.0788361	0.19029679	2.9935170	21	11 17.4	20.0
313288 2002 CA_{34}	16.6	X	323.99263	203.04125	324.97331	13.37633	0.2506805	0.20190309	2.8776684	21	—	—
313289 2002 CX_{70}	17.9	X	243.94294	29.07561	130.81875	4.07738	0.1208101	0.29102339	2.2551951	21	12 8.3	20.4
313290 2002 CE_{90}	17.2	X	286.23632	193.21362	334.14121	6.04982	0.0699387	0.29696000	2.2250379	21	—	—
313291 2002 CB_{116}	17.9	X	272.05486	315.58123	152.21430	22.83639	0.1177587	0.39066555	1.8532442	21	12 10.1	19.9
313292 2002 CN_{119}	17.5	X	347.77208	168.30237	281.74309	3.93960	0.1684746	0.29902285	2.2147929	21	—	—
313293 2002 CU_{126}	15.7	X	240.13297	188.92797	330.23820	13.08537	0.0511276	0.18771127	3.0209427	21	11 18.2	20.3
313294 2002 CG_{139}	15.7	X	203.15349	284.21270	331.55189	20.42036	0.2774509	0.19091053	2.9870979	21	—	—
313295 2002 CY_{147}	18.1	X	268.82279	216.00594	327.66897	1.66755	0.0825606	0.29775100	2.2210955	21	—	—
313296 2002 CO_{161}	15.8	X	279.46972	97.84604	113.41590	8.84026	0.2296981	0.19905044	2.9050969	21	—	—
313297 2002 CT_{181}	16.0	X	49.79917	265.49728	130.54187	12.86362	0.0658437	0.19745844	2.9206908	21	—	—
313298 2002 CD_{201}	15.8	X	80.34163	134.46417	142.07416	10.36706	0.0565650	0.18184362	3.0855837	21	10 19.1	20.3
313299 2002 CM_{201}	18.0	X	322.14304	332.16976	120.83217	2.92733	0.1612049	0.29419659	2.2389495	21	—	—
313300 2002 CL_{209}	15.9	X	119.38948	139.66013	131.58817	9.09305	0.0690714	0.18545938	3.0453474	21	11 25.7	20.6
313301 2002 CS_{248}	15.3	X	243.73871	238.23697	315.26175	13.82852	0.1097263	0.19193765	2.9764318	21	—	—
313302 2002 CQ_{252}	15.7	X	332.84683	319.78836	104.80628	11.30538	0.0835537	0.19185389	2.9772981	21	11 30.1	19.5
313303 2002 CU_{269}	13.4	X	275.30783	308.87628	144.15130	14.77989	0.0429877	0.08413375	5.1580936	21	10 8.5	20.3
313304 2002 CJ_{291}	16.7	X	356.11399	46.68410	1.89813	6.01119	0.1395926	0.29211527	2.2495719	21	—	—
313305 2002 CU_{305}	17.2	X	230.63924	188.29062	7.73180	7.01018	0.1151974	0.29330903	2.2434640	21	—	—
313306 2002 CS_{306}	15.5	X	278.70745	290.30606	142.31571	22.97220	0.1107371	0.18385633	3.0630234	21	9 19.1	19.8
313307 2002 CQ_{310}	17.7	X	259.17582	281.81913	247.85039	5.06551	0.1495853	0.29314450	2.2443033	21	—	—
313308 2002 DF_{18}	17.0	X	264.83839	335.16637	158.28273	6.84729	0.0488057	0.28901161	2.2656485	21	12 13.1	19.6
313309 2002 EH_{8}	17.5	X	219.62882	96.77758	152.78465	5.23989	0.3643585	0.29046657	2.2580763	21	—	—
313310 2002 EW_{10}	16.8	X	311.98588	69.00890	354.39852	25.47514	0.2567950	0.28851297	2.2682582	21	10 16.8	18.6
313311 2002 EG_{21}	15.8	X	248.78617	107.36095	95.30280	9.85810	0.1776924	0.19129595	2.9830844	21	—	—
313312 2002 EL_{38}	18.1	X	314.32386	335.00814	134.02457	1.03771	0.1349230	0.29441818	2.2378259	21	—	—
313313 2002 EW_{39}	18.1	X	251.62133	301.28797	204.96137	0.98561	0.1965051	0.28885103	2.2664881	21	11 16.9	20.5
313314 2002 EM_{43}	15.7	X	268.65352	333.89821	175.75232	23.49981	0.1966414	0.18961606	3.0006774	21	11 28.6	20.1
313315 2002 EX_{49}	18.0	X	281.33521	345.24318	173.02379	2.40522	0.1807939	0.29433625	2.2382412	21	—	—
313316 2002 EZ_{53}	16.3	X	335.78215	127.10751	348.21946	11.65440	0.2039145	0.19561302	2.9390313	21	—	—
313317 2002 EC_{63}	17.2	X	194.09750	260.09308	351.11743	7.17604	0.1213022	0.29201092	2.2501078	21	—	—
313318 2002 EY_{64}	17.6	X	265.72456	293.23433	195.10556	2.99743	0.0934608	0.28761371	2.2729837	21	11 30.4	20.1
313319 2002 EW_{80}	15.6	X	219.87628	271.53122	315.36433	9.58954	0.1490874	0.19170039	2.9788871	21	—	—
313320 2002 ET_{120}	16.0	X	161.11865	272.89903	338.69776	9.00867	0.0908169	0.18681148	3.0306352	21	12 12.5	20.8
313321 2002 EA_{124}	18.0	X	294.36712	273.38672	193.21091	5.35223	0.0887254	0.28904318	2.2654835	21	12 17.5	20.2
313322 2002 EC_{144}	15.9	X	191.70455	216.98264	50.91769	2.69635	0.1110429	0.19233516	2.9723293	21	—	—
313323 2002 EJ_{152}	13.5	X	337.26736	76.41698	358.55319	7.14231	0.0954290	0.08433381	5.1499328	21	11 22.6	19.9
313324 2002 EQ_{158}	17.1	X	313.50070	283.45305	158.07548	3.87601	0.1522620	0.18843737	3.0131773	21	11 16.0	20.5
313325 2002 EF_{162}	15.9	X	186.44406	121.52382	105.85310	6.88656	0.2099168	0.18070734	3.0985049	21	12 3.3	21.1
313326 2002 EJ_{162}	17.7	X	257.65282	320.46811	161.36434	6.38253	0.0396524	0.28477136	2.2880834	21	11 17.9	20.4
313327 2002 ET_{162}	17.4	X	179.06703	269.61142	348.60357	7.92577	0.1073503	0.29030161	2.2589316	21	—	—
313328 2002 FE_{4}	17.6	X	201.95516	107.48008	89.56827	6.56043	0.1566872	0.28615731	2.2806894	21	11 29.3	20.8
313329 2002 FH_{5}	16.9	X	260.16907	110.55162	107.98633	8.30969	0.3340879	0.29401463	2.2398731	21	—	—
313330 2002 FY_{15}	15.6	X	195.92530	116.00792	117.77678	10.69526	0.1184689	0.18752013	3.0229951	21	12 25.1	20.3
313331 2002 FR_{24}	15.5	X	167.16525	205.92428	12.18944	10.75335	0.0351842	0.18229562	3.0804812	21	11 7.6	20.1
313332 2002 FA_{36}	15.3	X	253.58814	17.86506	118.96102	15.60850	0.1840395	0.18522695	3.0478945	21	10 30.3	20.0
313333 2002 FU_{41}	15.5	X	325.16151	35.13133	27.48871	10.16401	0.0603366	0.18288356	3.0738755	21	11 10.9	19.6
313334 2002 GA_{2}	15.6	X	218.51027	132.20534	126.57809	23.65040	0.3199795	0.19051525	2.9912282	21	—	—
313335 2002 GJ_{4}	17.3	X	311.57651	36.29230	19.04831	22.21874	0.0503077	0.38284741	1.8783891	21	11 14.5	19.1
313336 2002 GC_{26}	17.0	X	282.94834	311.42308	175.62029	22.22553	0.1893760	0.28942890	2.2634703	21	12 17.5	19.6
313337 2002 GN_{35}	17.6	X	359.22256	255.55413	326.18969	0.70127	0.1354075	0.25957507	2.4338514	21	3 27.6	19.7
313338 2002 GJ_{38}	17.4	X	261.50235	147.80495	13.57923	9.01817	0.1185515	0.29001866	2.2604006	21	—	—
313339 2002 GE_{45}	16.0	X	268.24021	309.85561	217.03121	2.44186	0.0592343	0.18794664	3.0184201	21	—	—
313340 2002 GZ_{45}	15.7	X	161.96185	39.42072	207.90237	9.92671	0.1837063	0.18117357	3.0931868	21	12 6.9	21.0
313341 2002 GE_{49}	17.3	X	299.33210	92.25618	12.87263	4.36946	0.1826227	0.28796125	2.2711545	21	12 18.3	18.9
313342 2002 GH_{69}	17.8	X	196.01181	192.41991	349.95687	0.48522	0.1493871	0.28250435	2.3003078	21	11 3.4	20.9
313343 2002 GG_{73}	15.1	X	74.31756	315.45777	38.39896	16.91788	0.0726913	0.18565361	3.0432231	21	—	—
313344 2002 GZ_{92}	16.0	X	199.18415	198.14225	357.10306	4.59309	0.1489388	0.18257873	3.0772960	21	11 8.9	21.0
313345 2002 GT_{100}	15.2	X	131.71539	270.69447	13.79811	10.07205	0.0992017	0.18386019	3.0629806	21	12 22.3	20.1
313346 2002 GM_{108}	17.7	X	264.94803	86.87036	85.19457	8.76395	0.2081327	0.29155725	2.2524413	21	—	—
313347 2002 GU_{109}	15.2	X	103.62965	152.60916	155.61172	15.92904	0.0681988	0.18147590	3.0897505	21	12 20.7	20.1
313348 2002 GQ_{110}	15.2	X	115.33198	237.24342	54.87422	10.62209	0.1011642	0.18167342	3.0875106	21	12 14.4	20.0
313349 2002 GS_{120}	15.4	X	219.31383	144.83163	65.83279	12.04388	0.0311049	0.18570114	3.0427037	21	12 31.7	19.9
313350 2002 GK_{123}	16.5	X	257.46418	34.34557	168.27148	1.04398	0.1822002	0.18995011	2.9971583	21	—	—
313351 2002 GY_{124}	15.6	X	51.28173	279.58283	28.03981	8.66720	0.1086538	0.17422821	3.1748538	21	10 23.7	19.7
313352 2002 GX_{127}	17.3	X	198.93879	322.83164	206.85688	6.94266	0.0490059	0.28136343	2.3065221	21	10 31.6	20.3
313353 2002 GX_{133}	15.8	X	192.40406	336.01202	0.29459	8.88846	0.0952662	0.20033014	2.8927119	21	2 14.2	20.3
313354 2002 GC_{134}	17.0	X	331.08602	43.53707	11.39254	6.87484	0.1023581	0.28491820	2.2872971	21	12 3.9	19.2
313355 2002 GG_{136}	15.6	X	110.81242	245.53529	20.48645	10.67623	0.0479590	0.17820199	3.1274786	21	11 3.2	20.1
313356 2002 GS_{145}	17.6	X	130.60886	247.98868	356.14975	3.69323	0.1179870	0.27981585	2.3150187	21	11 16.3	21.0
313357 2002 GU_{146}	13.0	X	294.13075	292.49570	179.93782	32.12786	0.0809600	0.08244762	5.2281813	21	11 13.9	20.0
313358 2002 GP_{153}	15.4	X	163.57457	112.25251	162.74274	14.10217	0.1413323	0.18405606	3.0608072	21	—	—
313359 2002 GA_{176}	16.3	X	240.28017	29.90896	157.77979	5.99301	0.2054424	0.18661407	3.0327722	21	12 6.9	20.8
313360 2002 GV_{179}	15.8	X	165.43476	227.46820	22.37896	11.11721	0.0533725	0.18415119	3.0597529	21	12 14.8	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313361 2002 GT_{183}	15.8	X	192.68935	140.30996	39.43796	9.75533	0.0409179	0.17786032	3.1314826	21	10 24.0	20.2
313362 2002 GE_{184}	16.1	X	292.10597	240.00788	265.89160	6.12060	0.1678452	0.19117587	2.9843333	21	12 31.1	19.6
313363 2002 GM_{190}	17.3	X	156.71626	313.93936	287.85175	2.79630	0.1492246	0.28202682	2.3029037	21	12 9.8	20.9
313364 2002 GS_{190}	16.5	X	56.64099	196.74959	118.82938	8.19073	0.1262725	0.27917734	2.3185472	21	12 1.3	19.6
313365 2002 HD_{13}	17.0	X	97.01151	142.02837	148.49460	24.03703	0.0578121	0.38280349	1.8785328	21	12 30.5	19.7
313366 2002 JE_{24}	15.6	X	161.41022	183.09248	54.01034	18.31630	0.1685283	0.17891538	3.1191596	21	11 23.4	20.7
313367 2002 JL_{27}	16.7	X	23.76042	207.63756	83.48735	7.57460	0.1856697	0.26708500	2.3880113	21	9 18.9	19.1
313368 2002 JL_{30}	15.4	X	142.88317	211.87739	57.99328	11.98755	0.2159186	0.17836322	3.1255936	21	12 15.9	20.8
313369 2002 JM_{34}	15.3	X	109.11571	42.46516	227.82679	27.64957	0.1987980	0.17322958	3.1870437	21	11 19.8	20.5
313370 2002 JW_{67}	17.4	X	217.47577	75.18090	61.08566	22.91767	0.1161485	0.37919917	1.8904178	21	10 24.3	19.7
313371 2002 JD_{98}	16.6	X	117.03493	168.40151	99.80782	14.46628	0.1930908	0.27684873	2.3315301	21	12 8.1	20.4
313372 2002 JJ_{100}	15.7	X	221.18649	76.04692	138.28683	18.25624	0.2549923	0.18452854	3.0555802	21	12 15.5	20.9
313373 2002 JN_{120}	15.6	X	102.87790	119.07380	139.21581	12.22069	0.1689749	0.17347299	3.1840617	21	11 2.6	20.8
313374 2002 JH_{144}	15.2	X	243.11404	92.98767	80.24449	22.76747	0.1168922	0.18430802	3.0580170	21	12 4.6	19.5
313375 2002 JM_{145}	15.0	X	100.63485	146.39286	113.93412	17.34015	0.1529659	0.17447799	3.1718231	21	11 4.4	20.2
313376 2002 JS_{150}	17.6	X	76.90220	309.23597	329.63413	4.64631	0.2055485	0.27318159	2.3523490	21	11 11.9	21.2
313377 2002 KK_{2}	17.3	X	231.94677	82.07128	130.10760	3.21969	0.1652104	0.28894312	2.2660065	21	—	—
313378 2002 KT_{13}	17.5	X	135.31620	184.45384	66.86094	6.97950	0.1684558	0.27863095	2.3215773	21	12 1.3	21.2
313379 2002 KP_{16}	16.9	X	90.58041	281.97967	278.43984	6.38836	0.0238569	0.25928584	2.4356611	21	7 19.8	19.9
313380 2002 LE_{16}	16.9	X	82.30537	196.76692	56.32662	5.45839	0.1231238	0.27027780	2.3691677	21	10 9.1	20.1
313381 2002 LG_{25}	15.4	X	201.89922	92.90187	151.40213	13.71933	0.2851568	0.18392237	3.0622902	21	12 29.3	20.9
313382 2002 LG_{33}	15.2	X	204.60618	85.64918	134.69599	17.12693	0.1004177	0.18113829	3.0935885	21	12 20.1	20.1
313383 2002 LS_{49}	15.3	X	90.76843	85.05405	190.56107	14.87853	0.1428200	0.17218802	3.1998830	21	11 5.8	20.2
313384 2002 LP_{60}	17.2	X	133.04239	233.90778	4.19544	2.16011	0.1653662	0.27338348	2.3511908	21	11 11.8	21.0
313385 2002 NZ_{20}	15.3	X	115.08281	109.33962	139.82097	14.19521	0.2735912	0.16854751	3.2457956	21	11 9.3	21.1
313386 2002 NG_{22}	16.6	X	216.87022	217.21855	127.48958	14.41407	0.3162314	0.24194133	2.5507193	21	3 13.9	21.5
313387 2002 ND_{42}	17.3	X	318.41948	304.53989	15.03433	2.61910	0.2031070	0.25520738	2.4615419	21	5 28.4	19.7
313388 2002 NU_{54}	16.2	X	346.42947	346.45251	301.68763	13.14890	0.0585286	0.25653855	2.4530193	21	6 20.9	19.1
313389 2002 NZ_{59}	16.9	X	317.35156	61.42171	291.77245	5.09663	0.1071461	0.25965281	2.4333656	21	8 1.6	19.5
313390 2002 NS_{62}	16.6	X	134.95550	88.05617	298.92207	10.48619	0.2872933	0.23624548	2.5915547	21	2 24.9	20.9
313391 2002 NL_{64}	16.9	X	208.54147	47.81662	321.00139	3.35215	0.2943035	0.24450455	2.5328614	21	3 31.4	21.5
313392 2002 NG_{68}	17.3	X	151.61598	73.97078	276.95581	11.45943	0.2818065	0.23318259	2.6141989	21	1 28.3	21.7
313393 2002 NQ_{71}	17.3	X	18.85399	351.36457	281.73483	5.58313	0.1026592	0.25933324	2.4353642	21	7 25.0	19.6
313394 2002 NK_{73}	17.8	X	21.02763	221.49881	68.51781	3.23205	0.1682505	0.26172549	2.4205016	21	9 5.2	20.0
313395 2002 NP_{73}	17.3	X	112.38212	155.35036	77.65947	7.45725	0.0981721	0.26804159	2.3823264	21	10 15.7	20.7
313396 2002 ND_{74}	17.5	X	82.53337	315.27027	302.57154	2.85176	0.1124673	0.26636040	2.3923402	21	10 10.1	20.8
313397 2002 NH_{76}	16.3	X	181.70257	239.40990	208.26253	6.29138	0.1227826	0.25242839	2.4795750	21	6 16.6	20.1
313398 2002 NG_{77}	17.3	X	172.85322	351.24027	38.88361	2.10895	0.2341669	0.24103223	2.5571290	21	3 31.9	21.6
313399 2002 PW_{19}	16.9	X	185.64600	146.85564	244.42284	3.21042	0.2917557	0.24261412	2.5460015	21	4 11.9	21.6
313400 2002 PO_{53}	16.9	X	45.56892	292.80978	326.26822	7.70041	0.1057311	0.25917589	2.4363498	21	8 20.7	19.6
313401 2002 PQ_{70}	15.0	X	160.80626	61.81578	252.10326	10.87491	0.1413848	0.17701689	3.1414217	21	—	—
313402 2002 PU_{75}	17.0	X	103.35812	274.97063	346.36720	4.17557	0.1962746	0.27038821	2.3685227	21	11 14.1	20.7
313403 2002 PF_{80}	16.6	X	150.08055	69.64357	322.24622	28.51421	0.3528780	0.23632143	2.5909994	21	3 10.4	21.6
313404 2002 PG_{101}	16.8	X	177.77996	73.92356	278.15251	11.73252	0.1784484	0.23830863	2.5765755	21	2 11.0	21.1
313405 2002 PC_{105}	16.7	X	159.51397	96.51179	300.52671	12.78973	0.3149160	0.23760208	2.5816809	21	3 27.1	21.5
313406 2002 PP_{128}	16.5	X	186.98730	285.05456	105.73563	7.61058	0.2726946	0.24058411	2.5603033	21	4 16.7	21.2
313407 2002 PA_{130}	17.1	X	205.97156	200.30171	149.14731	5.65781	0.2215218	0.24060531	2.5601530	21	3 9.2	21.4
313408 2002 PU_{138}	17.2	X	311.13438	39.28272	333.67923	18.42617	0.0817175	0.36435305	1.9414272	21	9 2.2	18.6
313409 2002 PN_{155}	17.8	X	116.69365	255.46914	319.47367	18.35381	0.0402562	0.36746313	1.9304573	21	9 17.9	20.2
313410 2002 PL_{159}	17.0	X	218.68793	20.93133	339.43573	5.86995	0.1547823	0.24515477	2.5283808	21	3 30.9	21.0
313411 2002 PE_{171}	15.8	X	170.05158	85.71909	132.93296	25.87939	0.2913582	0.17334134	3.1856737	21	11 16.3	22.0
313412 2002 PY_{173}	17.8	X	189.65856	204.59269	175.35441	3.68143	0.2300970	0.24156317	2.5533807	21	4 1.7	22.2
313413 2002 PK_{175}	14.9	X	319.51786	189.48580	145.00409	15.84277	0.0658636	0.15298799	3.4622984	21	7 12.1	19.7
313414 2002 PN_{177}	17.4	X	97.78617	114.35134	134.14641	5.86249	0.1303155	0.26645509	2.3917734	21	10 21.6	20.9
313415 2002 PU_{179}	17.2	X	159.93084	229.46004	162.92886	1.36009	0.2095179	0.23881700	2.5729176	21	3 22.4	21.3
313416 2002 PB_{180}	17.8	X	68.35527	311.21194	301.82623	2.07353	0.1576554	0.26316111	2.4116905	21	9 22.4	21.0
313417 2002 PJ_{197}	16.5	X	325.51705	345.93553	288.99857	8.63677	0.0315350	0.25077407	2.4904680	21	4 28.4	19.7
313418 2002 QE_{5}	16.4	X	135.37945	158.47456	262.45135	5.75852	0.3172831	0.23636087	2.5907112	21	4 11.5	20.8
313419 2002 QL_{22}	17.2	X	171.76519	207.08980	177.56968	3.46957	0.2267638	0.23935038	2.5690938	21	3 23.9	21.5
313420 2002 QK_{35}	17.4	X	330.38751	190.94089	112.22679	4.13213	0.2147899	0.25379050	2.4706950	21	5 25.9	19.8
313421 2002 QP_{42}	16.3	X	167.97404	293.97854	102.99865	10.56243	0.3134707	0.24043663	2.5613502	21	4 13.5	21.1
313422 2002 QK_{48}	15.8	X	220.13729	99.08227	138.55280	21.94547	0.3093609	0.18118633	3.0930416	21	—	—
313423 2002 QR_{49}	17.3	X	198.07533	231.24368	145.19358	7.36185	0.1519705	0.24184289	2.5514114	21	4 5.5	21.5
313424 2002 QO_{53}	17.2	X	147.66369	44.84975	2.24232	3.29255	0.2216715	0.23798683	2.5788976	21	3 30.0	21.2
313425 2002 QT_{54}	17.2	X	125.10943	104.11300	140.61582	9.65214	0.2081847	0.26998043	2.3709071	21	11 17.3	21.3
313426 2002 QO_{72}	16.8	X	85.90044	218.40892	338.01205	7.35171	0.0439925	0.25444424	2.4664612	21	7 12.9	20.0
313427 2002 QL_{75}	17.3	X	113.49245	217.68596	359.92781	5.76783	0.0607131	0.26218771	2.4176559	21	9 19.1	20.5
313428 2002 QR_{79}	17.1	X	169.27247	258.32703	149.82713	13.29672	0.2159962	0.24266328	2.5456577	21	4 22.9	21.5
313429 2002 QZ_{81}	16.8	X	53.72072	351.06427	296.80422	6.18706	0.1067281	0.26425338	2.4050402	21	10 10.3	19.9
313430 2002 QK_{86}	17.2	X	235.79933	41.09910	303.50663	3.68935	0.1939993	0.24472241	2.5313579	21	3 25.4	21.5
313431 2002 QX_{97}	17.5	X	182.73463	64.11466	341.37223	1.72612	0.1099784	0.24572345	2.5244783	21	4 22.9	21.3
313432 2002 QC_{116}	17.4	X	226.78553	123.05929	298.78294	6.55611	0.1028745	0.25356043	2.4721894	21	7 2.4	21.0
313433 2002 QL_{126}	16.4	X	117.06777	102.48608	6.19629	15.05134	0.1212339	0.24285778	2.5442984	21	4 29.0	20.1
313434 2002 QL_{146}	17.0	X	104.46244	104.78410	116.73100	2.97511	0.0756699	0.26202218	2.4186740	21	9 15.9	20.1
313435 2002 RC_{3}	16.4	X	60.21451	336.62301	8.12736	6.99339	0.1374676	0.27009935	2.3702111	21	—	—
313436 2002 RU_{5}	16.6	X	129.64718	121.67528	314.11742	12.20186	0.2440812	0.23590328	2.5940603	21	4 14.2	21.0
313437 2002 RM_{8}	17.0	X	253.26017	72.83531	271.35566	1.87959	0.2073397	0.24635392	2.5201694	21	4 9.4	21.0
313438 2002 RA_{14}	17.2	X	190.62876	3.14474	347.03280	4.95567	0.2758105	0.23696890	2.5862776	21	2 27.6	21.7
313439 2002 RH_{42}	16.2	X	105.70330	245.26303	148.25579	14.34966	0.1736913	0.23002467	2.6380708	21	1 20.2	19.6
313440 2002 RL_{91}	17.5	X	168.26546	136.49914	223.23837	1.22714	0.2985763	0.23406473	2.6076266	21	2 23.3	22.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313441 2002 RJ_{105}	16.9	X	161.58929	348.40814	6.76166	7.81671	0.3807449	0.23198522	2.6231865	21	2 21.0	21.8
313442 2002 RM_{143}	16.7	X	88.83709	206.14497	187.76726	13.49187	0.1517073	0.22687250	2.6624501	21	—	—
313443 2002 RK_{156}	16.9	X	13.37530	339.74057	320.44384	4.19462	0.1317995	0.25784782	2.4447085	21	8 28.7	19.2
313444 2002 RS_{163}	17.4	X	141.03064	239.44687	161.50914	1.54637	0.1824722	0.23546355	2.5972889	21	3 13.1	21.3
313445 2002 RQ_{176}	17.4	X	165.90607	142.27578	256.05906	2.90796	0.1896089	0.23867345	2.5739492	21	4 1.2	21.6
313446 2002 RA_{178}	17.1	X	203.47802	52.23521	330.90665	6.21901	0.1420114	0.24215153	2.5492430	21	4 13.7	21.3
313447 2002 RL_{183}	16.3	X	215.31998	8.04408	293.59145	13.24303	0.1712802	0.23452246	2.6042325	21	1 18.6	20.5
313448 2002 RC_{186}	16.8	X	164.48956	89.63838	310.63526	10.33406	0.2161454	0.23782406	2.5800742	21	3 30.9	21.3
313449 2002 RN_{191}	17.2	X	16.40746	286.38261	21.00821	2.46805	0.2061133	0.26052508	2.4279311	21	9 27.3	19.2
313450 2002 RJ_{218}	14.9	X	256.59542	263.38849	128.92276	10.87813	0.1059241	0.14735946	3.5499102	21	6 28.6	20.1
313451 2002 RN_{223}	17.0	X	207.41652	227.26928	121.70464	4.70111	0.2430844	0.23915343	2.5705041	21	3 10.8	21.5
313452 2002 RF_{254}	17.5	X	204.70733	46.49624	330.69760	2.87753	0.1826691	0.24253796	2.5465345	21	4 8.7	21.6
313453 2002 RV_{264}	17.3	X	45.04059	346.93581	294.77128	4.52191	0.1840426	0.26043207	2.4285091	21	10 2.3	20.3
313454 2002 RH_{266}	17.6	X	79.24427	275.60460	358.16952	2.36201	0.2445383	0.26792040	2.3830448	21	11 11.9	21.4
313455 2002 SE_{1}	17.2	X	141.08093	30.87005	11.73880	5.22816	0.2998228	0.23381957	2.6094490	21	3 26.3	21.6
313456 2002 SF_{8}	16.9	X	124.81658	61.29013	31.64571	5.50679	0.2475259	0.23639116	2.5904899	21	5 7.2	20.8
313457 2002 SW_{28}	16.4	X	174.62048	349.45347	22.72466	13.87863	0.2739093	0.23599877	2.5933605	21	3 17.8	21.0
313458 2002 SG_{35}	16.6	X	129.95290	27.34621	28.63074	14.34817	0.2488299	0.23293039	2.6160856	21	3 31.3	20.7
313459 2002 SB_{37}	17.4	X	175.81211	356.73649	17.80016	1.86039	0.2112518	0.23558111	2.5964247	21	3 14.9	21.8
313460 2002 SC_{38}	17.7	X	197.35805	90.88212	272.82660	2.95864	0.2670262	0.23950145	2.5680134	21	3 17.8	22.2
313461 2002 SZ_{46}	15.8	X	132.02054	161.43589	212.65402	12.28806	0.1760550	0.22751917	2.6574027	21	1 26.0	19.8
313462 2002 SQ_{71}	16.7	X	289.98727	206.07825	93.98656	7.21015	0.1390787	0.24585662	2.5235666	21	4 4.9	20.2
313463 2002 TH_{3}	16.9	X	192.72171	350.83931	17.21775	4.24968	0.1885227	0.23758957	2.5817715	21	3 20.6	21.1
313464 2002 TT_{4}	16.9	X	190.60888	308.41328	42.67426	5.48939	0.2770652	0.23567829	2.5957109	21	3 2.8	21.6
313465 2002 TH_{36}	16.9	X	152.98331	332.25146	65.69483	5.53624	0.2519365	0.23401405	2.6080031	21	3 28.9	21.2
313466 2002 TC_{55}	16.4	X	180.89431	349.23184	44.34436	4.74632	0.2610350	0.23599755	2.5933694	21	4 12.9	21.0
313467 2002 TZ_{83}	16.2	X	162.82299	320.06756	32.59329	16.67393	0.3170227	0.23240866	2.6199993	21	2 20.9	21.1
313468 2002 TL_{92}	16.7	X	206.34712	141.26532	221.77565	1.66601	0.0268125	0.23949937	2.5680282	21	3 25.2	20.3
313469 2002 TZ_{92}	16.8	X	158.33107	196.74201	186.25258	10.87560	0.1331779	0.23534183	2.5981844	21	3 1.8	20.8
313470 2002 TT_{113}	14.7	X	42.02523	318.25189	330.97158	15.97112	0.1077655	0.15299116	3.4622506	21	9 12.0	19.5
313471 2002 TT_{120}	16.8	X	107.60913	82.22883	355.37304	12.31171	0.2593832	0.23103217	2.6303957	21	3 31.1	20.5
313472 2002 TW_{132}	17.0	X	235.84299	30.03372	298.99541	5.16364	0.2620598	0.24101257	2.5572681	21	3 4.1	21.6
313473 2002 TG_{153}	17.6	X	182.53594	25.15378	358.10730	2.27600	0.1746094	0.23800153	2.5787914	21	3 28.9	21.6
313474 2002 TD_{160}	16.6	X	138.49710	269.03737	93.12047	12.34727	0.2203552	0.22861298	2.6489197	21	1 28.6	20.6
313475 2002 TV_{163}	16.6	X	132.67550	256.73342	140.30511	13.05327	0.2604123	0.23044582	2.6348557	21	3 11.2	20.7
313476 2002 TH_{179}	16.1	X	118.26690	85.15027	295.91828	11.70776	0.1857336	0.22616980	2.6679620	21	1 23.4	19.7
313477 2002 TA_{180}	16.1	X	47.07325	326.07391	12.70790	17.50034	0.4043813	0.21352128	2.7723110	21	—	—
313478 2002 TY_{202}	16.7	X	124.80434	317.94344	75.41976	4.98426	0.2273184	0.23044175	2.6348867	21	2 22.9	20.6
313479 2002 TZ_{208}	16.7	X	182.81941	301.16161	87.46388	9.81701	0.1720634	0.23854566	2.5748684	21	4 9.9	21.0
313480 2002 TO_{216}	16.2	X	62.76226	339.78993	130.84375	13.70737	0.3409581	0.22680264	2.6629968	21	3 31.9	18.9
313481 2002 TD_{246}	17.3	X	211.81663	233.39758	102.55101	5.05356	0.2469658	0.23712562	2.5851380	21	2 27.1	21.8
313482 2002 TG_{254}	17.0	X	154.95194	347.21505	64.13968	4.79430	0.1814962	0.23583049	2.5945940	21	4 10.1	21.1
313483 2002 TB_{265}	16.0	X	152.71694	194.78248	228.40452	12.26068	0.1690026	0.23500789	2.6006451	21	4 18.7	20.1
313484 2002 TM_{271}	16.8	X	130.51573	178.21970	242.24005	3.64974	0.2218005	0.23357420	2.6112761	21	3 29.6	20.7
313485 2002 TH_{299}	17.4	X	118.51740	146.05703	270.75798	1.28938	0.2046775	0.23046195	2.6347327	21	3 11.5	21.1
313486 2002 TW_{325}	17.4	X	145.25052	11.31176	66.78866	0.78019	0.1567821	0.23960842	2.5672491	21	4 30.4	21.2
313487 2002 TE_{359}	17.3	X	125.41245	255.95807	183.89800	5.03969	0.1342290	0.23720406	2.5845680	21	4 9.2	20.8
313488 2002 TP_{362}	17.3	X	91.02292	143.92392	128.95675	2.93624	0.1821529	0.26470884	2.4022807	21	11 17.5	20.9
313489 2002 TA_{370}	17.1	X	218.87506	215.09798	137.85700	9.62402	0.1774740	0.23868801	2.5738446	21	3 26.9	21.4
313490 2002 TD_{372}	17.2	X	295.18076	178.17933	111.46114	14.20160	0.0646243	0.23837535	2.5760947	21	4 13.4	20.9
313491 2002 UN_{55}	16.8	X	53.86651	150.94864	112.33224	6.96179	0.1021627	0.25457481	2.4656178	21	9 10.9	19.8
313492 2002 VT_{2}	17.2	X	178.55746	276.44147	120.56466	0.87221	0.1727130	0.23698605	2.5861529	21	4 11.9	21.4
313493 2002 VM_{10}	17.2	X	107.55550	58.36199	0.69606	4.75539	0.2598880	0.22835512	2.6509135	21	3 10.7	20.7
313494 2002 VB_{29}	16.2	X	163.05699	355.32630	52.81840	8.95598	0.1898686	0.23545705	2.5973367	21	4 14.9	20.5
313495 2002 VD_{30}	16.8	X	164.89677	291.76352	66.29816	5.65860	0.2343329	0.22996303	2.6385421	21	2 18.3	21.2
313496 2002 VR_{37}	16.5	X	126.84478	312.52529	79.35019	14.18088	0.2810634	0.22879940	2.6474807	21	3 6.3	20.8
313497 2002 VC_{39}	17.3	X	139.55950	229.27132	167.00519	7.59976	0.3036798	0.23172061	2.6251832	21	3 18.2	21.5
313498 2002 VP_{40}	16.4	X	94.48409	187.80955	203.84890	13.56577	0.2466552	0.22282641	2.6945832	21	1 12.7	19.9
313499 2002 VY_{41}	16.9	X	139.28715	2.08335	14.95909	2.22868	0.2188846	0.22878284	2.6476084	21	2 15.4	20.8
313500 2002 VV_{60}	17.3	X	199.58355	130.16728	253.35278	4.32538	0.2632629	0.23889224	2.5723774	21	4 11.9	21.9
313501 2002 VS_{65}	17.5	X	112.02347	90.71362	314.63670	7.63955	0.3091959	0.22815447	2.6524674	21	3 2.5	21.4
313502 2002 VQ_{83}	16.3	X	156.65574	313.48256	85.90955	13.90187	0.1784713	0.23215537	2.6219046	21	4 2.8	20.7
313503 2002 VF_{100}	16.3	X	95.17938	187.90345	236.55383	12.18348	0.1454014	0.22799529	2.6537019	21	2 6.4	19.9
313504 2002 VO_{115}	16.4	X	130.83061	49.77497	22.98839	15.09818	0.0740635	0.23344423	2.6122453	21	3 31.9	20.0
313505 2002 VE_{116}	17.0	X	162.93023	109.17290	282.02155	10.31615	0.2201261	0.23429087	2.6059483	21	3 18.8	21.5
313506 2002 VJ_{116}	16.7	X	137.48272	46.67680	310.50453	4.36143	0.2197202	0.22640255	2.6661332	21	1 20.6	20.6
313507 2002 VV_{120}	16.3	X	147.07546	153.92335	273.12947	12.61795	0.1658841	0.23426866	2.6061131	21	4 14.1	20.6
313508 2002 VJ_{127}	16.3	X	80.10621	13.59033	87.05362	14.14965	0.1275866	0.22800348	2.6536383	21	3 14.7	19.8
313509 2002 VZ_{138}	16.8	X	248.39704	55.81558	266.94898	7.70931	0.1691408	0.23808984	2.5781537	21	3 9.8	21.0
313510 2002 VH_{139}	17.3	X	117.37126	45.18189	343.34295	4.92899	0.2985598	0.22703058	2.6612141	21	2 16.9	21.0
313511 2002 VR_{139}	16.5	X	56.76807	169.43507	326.89040	6.16294	0.1180815	0.23021862	2.6365889	21	3 14.3	19.5
313512 2002 VN_{141}	16.2	X	148.22778	305.20144	114.35107	14.87071	0.1525369	0.23396091	2.6083979	21	4 17.0	20.5
313513 2002 VZ_{147}	16.1	X	70.84871	197.97730	147.14412	5.96029	0.0981848	0.21423406	2.7661583	21	—	—
313514 2002 WJ_{5}	16.5	X	84.45752	237.58805	248.06019	14.30744	0.1961615	0.23052981	2.6342156	21	4 24.2	20.0
313515 2002 WZ_{6}	16.4	X	224.64169	326.23533	42.90582	10.25784	0.1077019	0.23883274	2.5728046	21	4 22.3	20.3
313516 2002 WE_{18}	16.0	X	94.44487	260.08155	140.20195	13.22812	0.2802073	0.22414846	2.6839776	21	1 31.6	19.2
313517 2002 WR_{27}	16.7	X	48.00530	338.83506	84.80011	10.21543	0.1063255	0.21910616	2.7249988	21	—	—
313518 2002 XP_{1}	17.1	X	108.29077	204.16695	203.32663	8.42433	0.3209826	0.22690116	2.6622259	21	3 2.6	21.0
313519 2002 XS_{4}	16.3	X	169.01848	281.75180	65.71620	5.66199	0.3350817	0.23090441	2.6313659	21	2 14.6	21.2
313520 2002 XO_{7}	16.8	X	117.07463	165.96220	260.39387	12.23252	0.2362933	0.23048443	2.6345614	21	3 20.5	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313521 2002 XW_{11}	15.6	X	148.14492	121.12695	257.10543	30.03427	0.2549003	0.23007244	2.6377056	21	2 11.9	20.6
313522 2002 XM_{22}	16.1	X	111.43779	158.87841	269.62265	13.96157	0.1336514	0.22819961	2.6521177	21	3 1.2	20.0
313523 2002 XR_{26}	16.1	X	173.95739	110.05984	304.65034	12.35280	0.1830473	0.23755843	2.5819971	21	4 24.2	20.7
313524 2002 XU_{26}	16.3	X	131.54829	84.36586	277.75752	16.63296	0.2923940	0.22669467	2.6638423	21	1 24.9	20.6
313525 2002 XP_{31}	16.7	X	140.39862	65.02061	278.36910	10.78104	0.3662488	0.22564022	2.6721349	21	1 20.1	21.2
313526 2002 XA_{37}	15.9	X	138.98156	131.15422	279.01003	17.40348	0.1864465	0.22843244	2.6503152	21	3 13.6	20.4
313527 2002 XC_{37}	16.3	X	43.71413	100.60723	335.00057	14.32307	0.1774138	0.21695933	2.7429454	21	—	—
313528 2002 XK_{37}	17.3	X	117.99364	177.58008	232.67370	1.35892	0.2080574	0.22731630	2.6589836	21	3 3.5	21.1
313529 2002 XF_{38}	15.5	X	171.49212	105.02373	286.16868	26.20789	0.2470971	0.23292568	2.6161208	21	3 17.4	20.6
313530 2002 XR_{53}	16.6	X	83.97540	37.86219	84.55904	10.27459	0.1642468	0.23029853	2.6359789	21	4 21.6	20.0
313531 2002 XN_{71}	16.6	X	127.32341	121.50923	271.08220	9.41598	0.2617787	0.22699644	2.6614808	21	2 22.3	20.8
313532 2002 XK_{79}	15.9	X	40.07119	52.00177	82.71989	14.38858	0.1254065	0.22283790	2.6944907	21	2 21.1	19.1
313533 2002 XA_{88}	16.9	X	147.68646	81.69425	316.51645	12.79781	0.2817417	0.23005172	2.6378639	21	3 19.2	21.5
313534 2002 XN_{92}	16.3	X	181.26047	171.62809	251.85100	13.67159	0.0813451	0.23957002	2.5675233	21	5 14.2	20.2
313535 2002 XB_{117}	17.2	X	102.80478	140.48097	318.01041	4.61987	0.1273085	0.23121976	2.6289727	21	4 2.4	20.7
313536 2002 XJ_{117}	17.0	X	87.56967	25.23597	71.19618	3.19465	0.1220684	0.22890586	2.6466597	21	3 13.1	20.2
313537 2002 YY_{11}	16.0	X	46.43334	295.91327	123.13804	33.14117	0.3391987	0.21480396	2.7612635	21	—	—
313538 2002 YB_{12}	18.4	X	100.57773	305.97919	271.10786	14.01792	0.5514136	0.44987799	1.6868361	21	10 13.9	22.0
313539 2002 YT_{27}	16.3	X	112.60079	306.95515	107.33831	14.31595	0.2495073	0.22501046	2.6771184	21	3 14.9	20.3
313540 2003 AV_{32}	16.6	X	112.52216	124.96633	294.08095	11.39237	0.2189501	0.22524898	2.6752282	21	3 5.1	20.6
313541 2003 AT_{57}	16.0	X	98.84066	332.58891	105.74511	9.62025	0.2073498	0.22356578	2.6886390	21	3 22.0	19.7
313542 2003 AR_{63}	16.6	X	64.34283	1.69953	106.59993	4.98657	0.1782737	0.22272119	2.6954318	21	3 1.4	19.4
313543 2003 AK_{77}	15.9	X	140.99240	118.97801	26.95249	7.36120	0.1106144	0.23944327	2.5684293	21	7 21.9	19.8
313544 2003 AB_{78}	15.7	X	339.80241	79.58880	60.82821	14.07187	0.1415739	0.21123727	2.7922589	21	—	—
313545 2003 AO_{81}	16.5	X	90.04031	77.98543	357.08121	12.24158	0.2519372	0.22365299	2.6879400	21	3 9.3	19.7
313546 2003 AY_{81}	15.9	X	183.19993	91.97169	11.65533	12.73632	0.1285600	0.23875314	2.5733764	21	7 11.8	20.2
313547 2003 AC_{85}	17.0	X	70.13075	78.98107	4.15706	8.77224	0.2765405	0.22066655	2.7121375	21	2 21.5	19.7
313548 2003 BL_{1}	19.3	X	104.19881	110.72457	324.10322	22.46436	0.3198383	0.43999060	1.7120132	21	2 20.1	18.9
313549 2003 BD_{3}	16.6	X	62.20962	299.92148	141.13551	14.60449	0.3015092	0.21932614	2.7231764	21	2 2.2	18.8
313550 2003 BT_{3}	16.1	X	21.62004	49.62998	143.03079	15.44744	0.0808820	0.22531987	2.6746670	21	4 8.9	19.5
313551 2003 BV_{12}	16.2	X	328.32388	37.61143	138.74407	10.51044	0.1363513	0.21579211	2.7528276	21	—	—
313552 2003 BX_{33}	20.9	X	202.30720	221.21531	143.19199	7.92127	0.4226847	0.76684929	1.1821231	21	2 5.0	19.7
313553 2003 BL_{35}	16.5	X	82.46526	275.53411	123.32859	10.44485	0.2983463	0.21836228	2.7311840	21	1 15.2	19.4
313554 2003 BY_{61}	15.6	X	47.43274	27.91615	153.09409	13.52724	0.1245170	0.22573502	2.6713867	21	5 8.7	18.9
313555 2003 BO_{67}	16.2	X	349.58144	30.23160	119.18396	10.28125	0.0963538	0.21501136	2.7594876	21	—	—
313556 2003 BY_{70}	15.9	X	334.31133	54.52071	140.45655	13.83686	0.1189702	0.21639061	2.7477493	21	1 20.3	19.5
313557 2003 BZ_{71}	16.6	X	90.17167	276.87346	155.47038	13.03847	0.2441753	0.22168510	2.7038238	21	3 4.2	19.9
313558 2003 BU_{73}	16.3	X	62.02497	37.96103	86.57587	9.88286	0.2587415	0.22258543	2.6965277	21	4 5.7	19.2
313559 2003 BR_{74}	16.9	X	47.28693	100.71265	356.51432	12.37166	0.1885709	0.21744149	2.7388890	21	1 15.1	19.8
313560 2003 BD_{75}	16.3	X	65.19006	26.76050	36.48784	9.70538	0.1479523	0.21545864	2.7556672	21	—	—
313561 2003 BE_{78}	16.5	X	19.28429	145.29981	355.69832	7.18812	0.2164012	0.21692525	2.7432327	21	1 14.5	19.2
313562 2003 BU_{80}	17.0	X	28.13110	11.22492	145.31266	3.98455	0.2139557	0.22069868	2.7118744	21	2 24.4	19.4
313563 2003 BL_{92}	16.5	X	15.36433	92.78396	65.26665	9.52119	0.2318240	0.21703171	2.7423355	21	1 30.2	19.1
313564 2003 BJ_{93}	17.3	X	37.09276	97.07833	30.68259	7.95947	0.1583994	0.21908198	2.7251994	21	2 5.2	20.2
313565 2003 CU	15.9	X	58.65668	262.26622	291.81652	10.48566	0.1275135	0.22994888	2.6386504	21	6 11.0	19.1
313566 2003 CX_{19}	16.3	X	32.19948	251.32397	304.77011	8.01456	0.1665959	0.22484028	2.6784691	21	4 27.3	19.1
313567 2003 DE	16.3	X	329.40167	38.80399	133.93827	9.80622	0.2138416	0.21270972	2.7793580	21	—	—
313568 2003 DW_{4}	15.8	X	13.50384	138.65823	4.18919	15.37481	0.1664864	0.21460165	2.7629986	21	1 13.3	19.1
313569 2003 DA_{6}	16.3	X	26.89809	168.54989	324.48236	12.43534	0.0925096	0.21675862	2.7446384	21	1 24.9	19.6
313570 2003 DS_{6}	16.5	X	301.28462	315.14574	270.78603	5.87302	0.1423635	0.21652479	2.7466141	21	1 13.9	20.5
313571 2003 DG_{7}	16.4	X	109.85309	294.70972	119.25619	13.18080	0.1546023	0.21962094	2.7207390	21	2 23.5	20.1
313572 2003 DE_{15}	16.3	X	38.52572	40.47316	101.40062	14.66546	0.2314293	0.21947353	2.7219571	21	3 7.1	19.0
313573 2003 DV_{20}	16.2	X	22.49551	235.14570	346.89307	11.42928	0.2562893	0.22399088	2.6852362	21	5 22.8	18.6
313574 2003 EO_{1}	16.5	X	51.93465	132.24940	352.87016	17.14200	0.2565261	0.21987097	2.7186760	21	3 10.6	18.7
313575 2003 ES_{2}	15.9	X	336.67829	49.93646	156.84210	13.41237	0.1263758	0.21722177	2.7407357	21	2 6.1	19.3
313576 2003 ER_{4}	16.6	X	121.19848	103.34985	2.93779	12.68581	0.2163716	0.22816208	2.6524085	21	5 14.2	20.9
313577 2003 EG_{33}	16.0	X	34.43385	100.71072	163.98406	12.55948	0.1638512	0.23084925	2.6317850	21	8 15.8	18.9
313578 2003 EJ_{35}	15.9	X	343.71801	223.74386	340.40347	7.98823	0.1652322	0.21558579	2.7545836	21	2 10.7	19.1
313579 2003 ES_{36}	16.2	X	68.00074	77.83925	28.98305	12.69586	0.3022509	0.22263425	2.6961335	21	3 28.2	19.0
313580 2003 EM_{51}	13.1	X	323.11511	253.31423	164.44859	29.01664	0.0478194	0.08509568	5.1191483	21	10 24.9	20.0
313581 2003 FJ_{3}	15.6	X	9.39118	67.82028	102.89900	25.99145	0.2043348	0.21605288	2.7506120	21	2 7.4	18.6
313582 2003 FJ_{25}	16.2	X	345.49067	191.46070	2.28982	8.32721	0.0351228	0.21604661	2.7506653	21	2 17.5	19.8
313583 2003 FW_{26}	15.9	X	266.48314	257.84565	12.32969	6.55442	0.0562517	0.21362347	2.7714267	21	2 11.7	19.9
313584 2003 FS_{33}	16.2	X	259.20119	103.91982	21.60759	10.06888	0.0097380	0.19194581	2.9763474	21	11 8.8	20.4
313585 2003 FK_{44}	16.5	X	257.94805	220.55222	344.88237	6.16437	0.0092856	0.20325206	2.8649216	21	—	—
313586 2003 FW_{88}	15.8	X	322.17643	105.40448	178.65504	12.40551	0.1671444	0.22203939	2.7009468	21	4 25.4	19.1
313587 2003 FE_{106}	16.0	X	308.65536	165.47081	36.04979	9.95831	0.0914895	0.20920520	2.8103111	21	1 2.3	20.1
313588 2003 GX_{40}	16.1	X	255.53101	82.02271	134.19460	4.68573	0.1511160	0.20217093	2.8751261	21	—	—
313589 2003 HL_{51}	16.2	X	346.41369	9.02942	163.42415	12.67240	0.1579730	0.21111555	2.7933320	21	1 4.5	19.9
313590 2003 KE_{7}	16.3	X	129.21632	178.66059	133.13705	10.28661	0.0620692	0.19239610	2.9717017	21	—	—
313591 2003 MB_{7}	16.3	X	309.45629	32.12343	312.09153	11.88559	0.4228142	0.26810498	2.3819508	21	5 5.3	19.8
313592 2003 NH_{1}	15.4	X	82.94227	348.74891	300.85460	14.28246	0.2517110	0.17519380	3.1631775	21	11 21.9	20.7
313593 2003 NQ_{4}	16.7	X	73.21088	41.33719	260.51588	11.06703	0.2767335	0.28481545	2.2878472	21	12 16.7	20.3
313594 2003 NB_{7}	17.4	X	1.54271	272.49607	49.59250	4.36776	0.3025369	0.27683092	2.3316301	21	10 7.7	18.4
313595 2003 NC_{13}	16.7	X	353.30425	67.87754	308.44782	7.51816	0.1892925	0.28034892	2.3120832	21	11 26.0	18.7
313596 2003 OB_{8}	16.1	X	270.02135	50.17382	308.27633	21.22863	0.2729423	0.26668951	2.3903716	21	4 27.3	20.4
313597 2003 ON_{8}	17.0	X	3.23143	345.29537	350.70403	3.60200	0.2413821	0.27799402	2.3251220	21	10 22.0	18.7
313598 2003 OU_{10}	15.0	X	96.09864	350.20539	319.99016	16.68424	0.1959251	0.17960532	3.1111665	21	12 26.5	20.2
313599 2003 OF_{20}	15.4	X	112.11210	8.44922	279.88390	8.87092	0.0419627	0.17985719	3.1082612	21	12 2.5	19.9
313600 2003 OV_{28}	17.1	X	329.42926	17.93754	326.90636	5.23072	0.1627427	0.27259033	2.3557494	21	8 8.4	18.9

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		°	°	°	°		°				
313601 2003 OL_{33}	15.6	X	17.18708	191.41960	160.88975	10.70588	0.0595018	0.17087293	3.2162801	21	10 29.9	20.0
313602 2003 PS	17.1	X	342.78967	8.91770	326.90980	11.58804	0.2888592	0.27289528	2.3539941	21	8 20.2	17.8
313603 2003 QT_{3}	17.5	X	311.61233	173.10325	182.34499	6.40230	0.2274552	0.27110359	2.3643542	21	7 5.5	19.8
313604 2003 QT_{21}	16.7	X	338.52374	212.80953	150.22900	8.01684	0.2155817	0.27397670	2.3477956	21	10 3.4	18.2
313605 2003 QG_{25}	17.1	X	140.04589	345.21691	314.09909	5.52206	0.1733942	0.29355457	2.2422128	21	—	—
313606 2003 QB_{27}	17.5	X	260.33202	213.11227	182.09470	8.63481	0.2275610	0.26698965	2.3885798	21	6 19.8	21.1
313607 2003 QL_{30}	16.9	X	237.94170	318.49623	70.58350	7.15578	0.4041424	0.26164412	2.4210034	21	5 11.6	21.5
313608 2003 QT_{35}	15.5	X	130.42446	123.73259	149.90774	15.87362	0.2312236	0.17975526	3.1094362	21	12 14.2	21.1
313609 2003 QH_{38}	17.1	X	325.48646	24.50004	324.17682	5.77699	0.2091019	0.27217128	2.3581668	21	7 30.8	18.8
313610 2003 QD_{44}	17.0	X	341.51311	348.30533	11.70635	7.80350	0.2199064	0.27340142	2.3510879	21	10 3.4	18.0
313611 2003 QK_{58}	17.2	X	343.62340	206.12154	126.75424	3.12342	0.2292445	0.27312792	2.3526572	21	8 20.2	18.4
313612 2003 QR_{58}	17.3	X	328.88845	291.86217	61.76956	3.09147	0.2288632	0.27280500	2.3545134	21	8 16.1	18.7
313613 2003 QP_{62}	16.3	X	281.31869	219.60068	160.87823	11.85991	0.2512654	0.26557931	2.3970287	21	6 21.5	19.7
313614 2003 QX_{65}	17.0	X	297.38226	278.01045	121.66675	2.19104	0.2344345	0.27219372	2.3580372	21	8 17.5	19.1
313615 2003 QZ_{74}	15.3	X	101.01606	346.32674	309.78700	10.64534	0.1675470	0.17623388	3.1507197	21	12 9.9	20.5
313616 2003 QT_{76}	16.8	X	320.57921	43.87455	324.42828	6.26216	0.2352057	0.27212713	2.3584219	21	8 16.9	18.2
313617 2003 QC_{87}	17.3	X	54.61696	359.24163	306.08747	1.66889	0.2226048	0.28141232	2.3062549	21	11 26.8	20.4
313618 2003 QU_{94}	17.3	X	294.52147	276.47498	116.11835	1.42127	0.2161350	0.27201013	2.3590981	21	8 4.2	19.4
313619 2003 QE_{107}	16.5	X	354.68689	334.89298	40.76457	7.85983	0.1345170	0.27952534	2.3166225	21	11 20.6	18.7
313620 2003 QW_{108}	15.4	X	122.93910	161.34445	126.82423	11.58731	0.1663268	0.17954393	3.1118756	21	12 21.3	20.6
313621 2003 QP_{109}	17.1	X	26.30021	201.29153	117.10501	6.92871	0.2847655	0.27811200	2.3244644	21	11 19.9	19.7
313622 2003 QJ_{111}	17.0	X	273.20795	334.71044	36.98294	5.96761	0.2507271	0.26623471	2.3930931	21	5 29.4	20.4
313623 2003 RD_{3}	17.5	X	305.43789	15.67641	359.34886	2.81315	0.1818284	0.27165481	2.3611548	21	8 4.2	19.6
313624 2003 RZ_{11}	15.9	X	50.89531	15.88026	308.47137	24.30495	0.1806677	0.28017211	2.3130558	21	12 13.9	19.4
313625 2003 RH_{14}	15.6	X	164.55013	293.85213	342.98776	11.76271	0.1818894	0.18318349	3.0705193	21	—	—
313626 2003 RB_{17}	17.6	X	291.46584	339.23266	15.34859	3.54946	0.2539797	0.26694882	2.3888234	21	5 27.5	20.5
313627 2003 RW_{20}	17.3	X	274.74056	301.75626	90.56898	2.10498	0.2426367	0.26742770	2.3859708	21	6 30.5	20.4
313628 2003 RC_{23}	16.7	X	225.84835	326.91809	67.81782	5.05288	0.2425833	0.26177457	2.4201990	21	5 17.1	20.6
313629 2003 RE_{23}	17.1	X	27.18195	19.71318	330.63251	5.77712	0.1831965	0.28135184	2.3065854	21	12 16.9	19.8
313630 2003 RH_{27}	15.2	X	138.03575	304.82623	321.63396	15.00130	0.1012847	0.17678769	3.1441363	21	12 5.5	20.3
313631 2003 ST_{8}	17.7	X	286.36817	156.95407	248.70412	2.70352	0.1239879	0.27145999	2.3622843	21	8 24.9	20.2
313632 2003 SE_{11}	17.0	X	247.08973	132.30340	302.44641	16.57933	0.0953603	0.37857786	1.8924856	21	8 17.1	18.9
313633 2003 SZ_{13}	17.1	X	254.70388	54.76141	343.69106	3.52846	0.1961442	0.26537761	2.3982430	21	6 21.8	20.6
313634 2003 SB_{14}	15.3	X	141.83308	303.13695	355.99377	12.03664	0.2116477	0.18167637	3.0874772	21	—	—
313635 2003 SV_{31}	17.6	X	239.60343	114.03690	307.96775	0.53893	0.1713410	0.26363661	2.4087898	21	7 9.9	21.1
313636 2003 SJ_{33}	17.6	X	319.83762	159.29542	200.11382	6.35526	0.1543773	0.27182587	2.3601640	21	8 9.1	19.9
313637 2003 SG_{35}	17.9	X	263.39922	21.09361	16.60210	2.67909	0.1905357	0.26616821	2.3934917	21	7 1.8	21.2
313638 2003 SC_{40}	14.9	X	82.37936	356.55910	328.35974	15.91325	0.2626455	0.17409405	3.1764847	21	—	—
313639 2003 SA_{47}	16.9	X	314.76760	35.72972	313.36729	4.17669	0.2233870	0.26915913	2.3757276	21	7 3.7	19.1
313640 2003 SL_{49}	17.0	X	354.61911	33.39342	308.10193	4.51821	0.2502063	0.27411067	2.3470306	21	10 7.5	18.4
313641 2003 SH_{59}	15.0	X	37.14155	27.64876	304.61244	15.64147	0.2339937	0.17052415	3.2206643	21	11 18.7	19.5
313642 2003 SG_{63}	17.2	X	256.03042	18.21819	36.50640	6.85351	0.2502399	0.26704452	2.3882526	21	7 9.7	20.8
313643 2003 SW_{94}	17.6	X	342.95927	64.24690	274.77735	4.38929	0.2018179	0.27224430	2.3577451	21	8 26.5	19.1
313644 2003 SE_{98}	17.0	X	12.27804	331.62849	12.99080	5.29410	0.1461874	0.27536983	2.3398704	21	11 6.4	19.3
313645 2003 SC_{103}	16.7	X	329.24134	44.04974	327.83016	10.49755	0.2174291	0.27298645	2.3534699	21	9 14.7	18.2
313646 2003 SA_{120}	18.2	X	340.35481	350.22683	358.25702	1.11261	0.2024481	0.27306229	2.3530341	21	9 8.7	19.6
313647 2003 SS_{122}	15.4	X	104.10631	283.86754	352.24542	12.67330	0.2794287	0.17533999	3.1614190	21	11 24.7	21.0
313648 2003 SW_{124}	16.3	X	305.73212	66.55140	310.72427	8.49763	0.2683738	0.26970822	2.3725020	21	7 22.6	18.5
313649 2003 SP_{128}	17.1	X	305.29976	162.18832	186.17896	5.05894	0.2400534	0.26623471	2.3930931	21	6 11.7	19.8
313650 2003 SU_{133}	17.1	X	289.49704	317.89922	41.12018	4.40616	0.2171541	0.26614151	2.3936518	21	6 6.4	20.0
313651 2003 SW_{155}	16.9	X	279.08135	8.96262	23.10016	4.13720	0.1562045	0.26701177	2.3884479	21	7 21.2	19.8
313652 2003 SC_{160}	17.1	X	14.02603	27.26490	333.96985	7.60446	0.1381165	0.27881430	2.3205594	21	12 2.9	19.7
313653 2003 SL_{164}	17.0	X	302.47452	22.09146	355.39672	5.47615	0.1457958	0.26844484	2.3799400	21	8 9.4	19.4
313654 2003 SA_{165}	16.6	X	358.21791	335.66416	18.75488	7.53935	0.1338776	0.27453408	2.3446168	21	10 24.7	18.6
313655 2003 SZ_{170}	17.5	X	276.53710	203.32603	229.01345	1.63860	0.1815957	0.27174026	2.3606597	21	9 8.3	20.1
313656 2003 SY_{176}	17.1	X	276.27230	56.82399	18.34245	10.39173	0.0893855	0.27353408	2.3503277	21	9 30.4	19.8
313657 2003 SP_{180}	16.8	X	62.44210	333.57298	331.76371	7.45388	0.1319624	0.27944003	2.3170939	21	11 21.8	20.1
313658 2003 SJ_{181}	15.2	X	151.90114	287.86995	347.66213	15.70600	0.2202665	0.17941271	3.1133928	21	12 31.9	20.8
313659 2003 SE_{184}	17.7	X	302.10537	350.03023	2.59599	1.43231	0.2065325	0.26701313	2.3884398	21	6 18.5	20.2
313660 2003 SO_{184}	17.7	X	300.49823	187.57383	184.02360	2.93825	0.1946187	0.26849520	2.3796424	21	7 16.3	20.1
313661 2003 SJ_{188}	16.9	X	270.87381	195.01156	228.70403	5.98418	0.0909839	0.27046761	2.3680591	21	8 31.1	19.9
313662 2003 SZ_{189}	17.3	X	246.37273	43.07938	11.20014	5.06888	0.2259640	0.26584980	2.3954025	21	7 1.3	21.0
313663 2003 SQ_{190}	16.7	X	69.44787	315.79576	351.22792	7.06579	0.1437105	0.28098261	2.3086057	21	12 4.8	20.0
313664 2003 SP_{192}	16.9	X	56.38269	39.36735	277.33075	6.36589	0.1387187	0.28096817	2.3086847	21	12 2.5	19.8
313665 2003 SB_{193}	17.2	X	160.86632	102.44710	258.63575	5.65659	0.2209539	0.24548767	2.5260945	21	2 11.0	21.3
313666 2003 SW_{194}	17.4	X	139.57632	143.22555	253.88730	6.08135	0.2004086	0.24585375	2.5235863	21	3 4.3	21.3
313667 2003 SD_{196}	17.3	X	351.43935	58.25339	297.58340	5.41647	0.1559235	0.27334033	2.3514382	21	10 12.7	19.5
313668 2003 SL_{202}	15.1	X	136.41705	58.92220	183.79248	7.13891	0.0373946	0.17011488	3.2258278	21	11 5.4	19.8
313669 2003 SP_{207}	16.8	X	257.68736	43.24071	25.48617	1.66893	0.1631780	0.26665939	2.3905517	21	8 11.4	19.9
313670 2003 SG_{208}	17.1	X	258.47021	72.91601	319.90189	6.59862	0.2027819	0.26646588	2.3917088	21	6 17.5	20.6
313671 2003 SG_{209}	18.0	X	266.97317	106.76775	265.26623	2.36148	0.2559874	0.26385429	2.4074648	21	5 23.3	21.7
313672 2003 SO_{220}	16.7	X	241.05071	29.91230	38.20959	10.07489	0.2187493	0.26235458	2.4166307	21	7 16.6	20.5
313673 2003 SW_{223}	16.9	X	277.52955	339.34981	37.63759	7.25119	0.1099675	0.26382403	2.4076489	21	7 4.1	20.0
313674 2003 SV_{226}	17.5	X	313.94925	230.18877	144.63913	1.68825	0.1889788	0.27014656	2.3699349	21	8 19.3	19.4
313675 2003 SS_{227}	16.9	X	307.32804	356.63002	358.36510	3.25083	0.2400343	0.26690034	2.3891127	21	6 25.2	19.2
313676 2003 SF_{230}	15.4	X	75.31375	286.27194	8.00613	10.84099	0.1208777	0.17103371	3.2142642	21	11 3.8	20.1
313677 2003 SW_{258}	16.9	X	333.56707	56.74263	302.72750	10.35606	0.2614507	0.27091697	2.3654398	21	8 30.4	18.3
313678 2003 SA_{266}	17.0	X	267.14675	253.49689	163.61800	2.42552	0.2067825	0.26764431	2.3846833	21	7 30.6	20.1
313679 2003 ST_{277}	17.7	X	5.96854	50.12815	278.97491	4.13386	0.2448607	0.27423640	2.3463132	21	10 15.6	19.4
313680 2003 SV_{287}	17.5	X	267.34066	233.57605	203.79022	1.93496	0.1810646	0.27087606	2.3656780	21	9 1.8	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313681 2003 SA_{300}	16.9	X	245.85008	123.22599	331.17415	6.79618	0.2859918	0.26831440	2.3807113	21	8 16.6	20.4
313682 2003 SF_{300}	17.3	X	312.77711	103.84994	264.12907	5.27106	0.1574613	0.27086148	2.3657629	21	8 8.2	19.6
313683 2003 SO_{307}	17.3	X	272.95748	85.39822	311.67752	5.12524	0.2178303	0.26765086	2.3846444	21	7 9.2	20.3
313684 2003 SV_{311}	15.6	X	14.55356	252.31296	195.16776	10.46076	0.0457898	0.18045917	3.1013450	21	—	—
313685 2003 SP_{328}	17.1	X	355.28419	36.81465	321.12012	6.07188	0.1276515	0.27394113	2.3479989	21	10 21.3	19.5
313686 2003 SD_{333}	16.0	X	125.24627	120.28079	135.80301	1.36243	0.1513244	0.17322527	3.1870965	21	11 15.0	21.0
313687 2003 SK_{344}	16.3	X	186.96403	48.81547	203.36387	5.52086	0.1826225	0.18257751	3.0773096	21	12 31.9	21.5
313688 2003 SY_{345}	17.4	X	228.97110	203.72215	348.27651	7.36315	0.0833075	0.28565266	2.2833748	21	—	—
313689 2003 SW_{371}	18.0	X	210.90070	130.53133	353.24433	1.94518	0.1314886	0.27105795	2.3646196	21	9 4.1	21.2
313690 2003 SP_{382}	17.7	X	226.17523	354.85481	81.08509	2.40993	0.1650608	0.26475095	2.4020259	21	7 15.1	21.1
313691 2003 SG_{405}	17.0	X	267.26839	301.05544	110.06754	7.40165	0.1295011	0.26675499	2.3899804	21	8 4.9	19.9
313692 2003 TC_{6}	17.3	X	311.35715	336.29028	48.72057	5.34833	0.0949563	0.27182030	2.3601963	21	9 15.1	19.7
313693 2003 TZ_{11}	16.3	X	138.57356	303.61609	28.94525	29.61390	0.2659327	0.23886159	2.5725974	21	—	—
313694 2003 TB_{13}	16.6	X	181.04434	244.98931	229.05480	18.81402	0.2212201	0.26019877	2.4299606	21	7 14.9	21.2
313695 2003 TT_{13}	17.7	X	311.57174	137.95431	218.20641	21.02017	0.0781683	0.37770455	1.8954016	21	7 28.1	19.9
313696 2003 TY_{15}	17.5	X	269.74606	299.44252	118.68837	4.25733	0.1965298	0.26792520	2.3830163	21	8 7.1	20.3
313697 2003 TN_{16}	16.9	X	239.38958	161.92368	232.64067	4.24017	0.2057326	0.26038754	2.4287860	21	5 31.1	20.7
313698 2003 TE_{47}	16.9	X	162.01898	206.97220	357.55616	6.96247	0.0631398	0.27580252	2.3374225	21	10 28.5	20.2
313699 2003 TH_{50}	17.3	X	284.43991	240.11612	129.43842	5.32401	0.1947066	0.26553465	2.3972974	21	6 18.9	20.3
313700 2003 TV_{56}	17.5	X	189.01540	336.05745	76.42070	7.18456	0.1320956	0.25568498	2.4584756	21	5 10.3	21.2
313701 2003 UN_{3}	17.0	X	237.37876	262.14423	241.32159	24.04570	0.0671823	0.38799140	1.8617498	21	12 4.9	18.3
313702 2003 UH_{23}	17.3	X	12.31641	39.53202	283.61287	4.90154	0.2522051	0.27359560	2.3499754	21	10 21.1	19.4
313703 2003 UG_{24}	16.9	X	86.25417	274.15635	30.60718	5.38856	0.2025559	0.28160042	2.3052278	21	12 25.6	20.5
313704 2003 UG_{28}	17.7	X	213.83190	126.61222	320.51770	4.06394	0.2014145	0.26154757	2.4215991	21	7 15.2	21.4
313705 2003 UL_{42}	16.0	X	122.83300	128.79942	193.70357	20.33882	0.0119082	0.17773257	3.1329830	21	—	—
313706 2003 UN_{57}	17.1	X	233.21247	0.28461	54.94419	3.10285	0.2011540	0.26027228	2.4295030	21	6 21.4	20.9
313707 2003 UT_{61}	17.2	X	323.03739	261.09334	80.49814	5.10779	0.2451587	0.26895964	2.3769021	21	7 5.2	18.9
313708 2003 UE_{64}	16.6	X	8.85171	199.36061	148.51688	11.42907	0.1561474	0.27436510	2.3455794	21	11 12.3	19.2
313709 2003 UU_{74}	17.1	X	318.96525	118.26636	253.51650	6.20930	0.1068405	0.27041642	2.3683580	21	8 31.2	19.7
313710 2003 UW_{76}	17.2	X	220.53985	133.60362	279.47130	7.38902	0.2318585	0.25960867	2.4336414	21	6 4.9	21.4
313711 2003 US_{83}	17.5	X	302.58641	47.37966	320.45240	3.98876	0.1675540	0.26671246	2.3902345	21	7 20.4	19.9
313712 2003 UW_{88}	16.4	X	250.93555	307.89068	101.57498	10.06498	0.1712783	0.26205499	2.4184722	21	7 5.6	19.6
313713 2003 UE_{94}	17.4	X	283.96897	83.59435	312.71430	1.29300	0.2256815	0.26741048	2.3860732	21	7 21.7	20.2
313714 2003 UC_{97}	17.1	X	291.60280	124.41239	241.81606	0.99285	0.2345887	0.26563824	2.3966741	21	6 17.4	19.8
313715 2003 UW_{113}	16.9	X	275.81887	295.39693	130.68203	7.47692	0.0876216	0.26902309	2.3765284	21	9 17.3	19.6
313716 2003 UT_{118}	17.7	X	247.48208	142.87205	259.65395	2.05140	0.1725797	0.26306612	2.4122711	21	6 22.0	21.2
313717 2003 UA_{120}	17.2	X	20.25029	322.11860	7.72800	5.12548	0.1692220	0.27491780	2.3424346	21	11 2.1	19.5
313718 2003 UM_{123}	17.6	X	189.38701	86.49960	40.65667	5.25715	0.1710920	0.26187596	2.4195743	21	8 16.9	21.4
313719 2003 UV_{129}	17.1	X	278.74797	64.74105	334.57034	5.66787	0.1843024	0.26583303	2.3955032	21	7 26.5	19.9
313720 2003 UA_{132}	17.7	X	154.97892	21.34776	342.68398	3.81938	0.2930873	0.24351302	2.5397322	21	2 18.1	21.9
313721 2003 UU_{149}	16.6	X	284.82710	326.92912	73.04228	3.14723	0.2227721	0.26817453	2.3815390	21	7 29.7	19.3
313722 2003 UL_{151}	17.2	X	288.81716	282.91511	114.15065	3.40112	0.2067326	0.26726906	2.3869149	21	8 3.0	19.9
313723 2003 US_{151}	17.1	X	263.41586	294.44432	99.23206	5.88159	0.2240918	0.26313720	2.4118366	21	6 21.7	20.6
313724 2003 UF_{152}	16.9	X	280.08094	22.80615	352.77079	6.40572	0.1246125	0.26398722	2.4066566	21	7 3.7	20.0
313725 2003 UF_{163}	17.2	X	303.12894	286.72740	86.30574	3.71457	0.1870965	0.26730583	2.3866959	21	7 26.1	19.4
313726 2003 UM_{169}	17.8	X	127.30042	174.04946	32.30609	6.89905	0.0854426	0.26840544	2.3801729	21	9 25.2	21.1
313727 2003 UF_{171}	16.8	X	201.78415	189.48496	273.38087	1.51527	0.1649299	0.26085891	2.4258592	21	7 25.6	20.4
313728 2003 UH_{173}	16.9	X	358.62630	97.21119	225.15432	5.13867	0.1168639	0.26864961	2.3787305	21	9 1.2	19.3
313729 2003 UG_{174}	17.0	X	298.42364	1.00175	342.28075	1.13896	0.2037496	0.26361782	2.4089042	21	5 30.2	19.8
313730 2003 UC_{177}	17.9	X	254.58424	134.71738	272.21752	0.85333	0.1884261	0.26465822	2.4025870	21	7 4.1	21.4
313731 2003 US_{183}	17.1	X	219.44023	47.90258	39.77854	3.03485	0.1523644	0.26268209	2.4146216	21	7 25.4	20.6
313732 2003 UV_{185}	16.9	X	336.76307	84.34618	255.49710	0.74290	0.2033845	0.26923624	2.3752739	21	8 12.8	18.6
313733 2003 UJ_{192}	17.3	X	220.03589	52.91365	18.33150	2.09517	0.1669910	0.26075890	2.4264795	21	7 2.3	21.1
313734 2003 UP_{198}	16.4	X	266.80517	292.15585	101.83453	3.45229	0.1888076	0.26442602	2.4039933	21	6 30.8	19.6
313735 2003 UC_{199}	17.4	X	287.16202	155.45169	212.97493	4.07247	0.2035859	0.26581958	2.3955840	21	6 19.3	20.3
313736 2003 UE_{200}	17.6	X	340.46466	157.94077	183.59791	2.18648	0.2339882	0.27063640	2.3670744	21	8 24.8	18.7
313737 2003 UK_{202}	16.9	X	236.49829	285.99844	123.54598	7.56554	0.2350282	0.25978472	2.4325418	21	6 15.0	20.8
313738 2003 UF_{209}	17.6	X	263.91623	247.14821	147.21221	1.45592	0.1972335	0.26337072	2.4104107	21	6 26.6	20.8
313739 2003 UQ_{213}	17.2	X	248.19917	112.73255	18.45310	6.94602	0.0484011	0.27598291	2.3364039	21	11 10.7	20.1
313740 2003 UP_{219}	17.7	X	240.29274	30.61724	7.24265	5.35400	0.1204912	0.26055455	2.4277480	21	6 12.7	21.3
313741 2003 UX_{221}	17.5	X	213.54299	333.83342	109.61844	3.48842	0.1644633	0.26151179	2.4218201	21	7 11.9	21.2
313742 2003 UH_{230}	17.2	X	219.07744	280.73609	174.05350	5.43689	0.1204963	0.26382492	2.4076434	21	8 4.3	20.6
313743 2003 UR_{236}	16.9	X	305.03700	247.78196	133.95839	4.05699	0.1360472	0.26780681	2.3837185	21	8 20.8	19.3
313744 2003 UV_{241}	17.2	X	83.24293	130.73914	162.02699	2.61569	0.2177296	0.27940244	2.3173017	21	12 9.2	20.8
313745 2003 UJ_{243}	17.1	X	219.75174	54.12678	60.73727	3.09559	0.1489801	0.26659462	2.3909388	21	9 1.4	20.6
313746 2003 UP_{244}	17.0	X	244.32208	354.84949	57.95164	7.46072	0.1557832	0.26218981	2.4176430	21	7 4.7	20.6
313747 2003 UA_{250}	17.7	X	283.83349	92.66897	282.03019	2.32278	0.1337027	0.26458897	2.4030062	21	7 5.4	20.3
313748 2003 UE_{251}	17.5	X	221.03752	61.72966	357.79024	3.38195	0.1655793	0.25867555	2.4394905	21	6 17.6	21.2
313749 2003 UB_{267}	16.9	X	290.12211	344.85916	50.45775	7.75370	0.1117578	0.26669897	2.3903151	21	8 23.2	19.7
313750 2003 UU_{317}	17.1	X	314.52149	224.77249	141.77111	4.73507	0.1715017	0.26920363	2.3754658	21	8 9.3	19.2
313751 2003 UW_{339}	17.4	X	215.11999	176.75929	293.91344	1.71635	0.1407150	0.26595742	2.3947562	21	8 20.3	20.9
313752 2003 UK_{365}	17.4	X	200.63624	70.82328	92.81389	7.51650	0.0312451	0.27448726	2.3448834	21	10 29.5	20.5
313753 2003 UW_{370}	15.2	X	255.49709	185.15249	272.42134	17.71670	0.0858470	0.16862623	3.2447852	21	9 9.2	20.3
313754 2003 UD_{405}	17.4	X	189.64295	54.28002	118.40902	2.96241	0.0527388	0.27542005	2.3395860	21	10 23.7	20.4
313755 2003 VP_{10}	17.4	X	199.38442	9.23911	63.92217	2.28858	0.1651256	0.25688633	2.4508048	21	6 14.5	21.4
313756 2003 WA_{29}	16.9	X	279.71541	89.17393	289.33639	5.62211	0.1458169	0.26269816	2.4145231	21	7 3.1	19.9
313757 2003 WE_{51}	17.8	X	187.31811	96.03118	48.00184	2.12653	0.1193951	0.26542920	2.3979323	21	9 6.9	21.2
313758 2003 WA_{59}	17.3	X	209.16984	225.25058	226.48073	2.35967	0.1555359	0.25986064	2.4320680	21	7 18.4	21.0
313759 2003 WW_{79}	17.4	X	211.10414	151.08122	292.49845	2.72587	0.1843918	0.25882582	2.4385462	21	7 8.6	21.2
313760 2003 WG_{98}	16.1	X	77.48663	217.24523	288.43447	25.72796	0.4077747	0.23823352	2.5771170	21	6 19.1	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313761 2003 WP_{113}	16.5	X	172.16517	84.88241	42.46271	6.93059	0.0966774	0.25977559	2.4325988	21	7 31.7	20.1
313762 2003 WS_{115}	17.2	X	174.27729	59.26037	34.24785	5.77425	0.2199910	0.25364868	2.4716159	21	6 17.9	21.4
313763 2003 WQ_{116}	17.3	X	191.60396	113.12413	332.44789	1.44654	0.1925566	0.25562752	2.4588440	21	6 23.0	21.4
313764 2003 WY_{128}	17.3	X	184.50968	103.61489	4.68740	2.94991	0.1453793	0.25957250	2.4338675	21	7 17.3	21.0
313765 2003 WG_{145}	17.5	X	216.60135	24.73261	72.39596	3.05687	0.1828932	0.26108700	2.4244462	21	8 1.6	21.3
313766 2003 WP_{156}	16.9	X	20.63450	213.86474	128.82308	4.83075	0.2089302	0.27521282	2.3407603	21	11 30.6	19.4
313767 2003 WZ_{168}	17.3	X	258.00755	281.39483	118.87710	6.27708	0.2927454	0.26289627	2.4133099	21	6 17.2	21.0
313768 2003 WO_{188}	17.3	X	185.79398	157.91872	296.95406	1.72826	0.1689535	0.25742039	2.4474139	21	6 30.0	21.2
313769 2003 XG_{14}	17.4	X	220.66751	212.31202	298.51149	15.63691	0.0673172	0.38196776	1.8812719	21	11 13.3	19.6
313770 2003 XG_{18}	16.3	X	149.86909	99.86609	309.33437	11.61693	0.1981697	0.24281162	2.5446208	21	3 26.4	20.6
313771 2003 XR_{31}	18.2	X	223.36224	237.30553	194.68822	1.75712	0.1664376	0.25945023	2.4346321	21	7 6.3	21.8
313772 2003 YU	17.3	X	205.54951	279.90840	277.69194	18.91666	0.0837758	0.38621554	1.8674524	21	—	—
313773 2003 YJ_{1}	16.8	X	310.57415	52.10911	314.27048	21.00955	0.0939497	0.37203471	1.9146104	21	8 17.1	18.0
313774 2003 YM_{6}	17.1	X	265.17926	83.78743	330.33636	5.92595	0.1150548	0.26339426	2.4102671	21	8 8.4	20.0
313775 2003 YA_{12}	16.6	X	246.63411	30.14534	354.89019	8.36779	0.2287576	0.25625857	2.4548057	21	5 21.2	20.7
313776 2003 YN_{18}	16.8	X	271.60816	258.18813	85.69741	1.89780	0.2345382	0.25707495	2.4496059	21	4 24.9	20.6
313777 2003 YQ_{19}	17.2	X	222.84470	325.36903	81.90519	4.98867	0.1336656	0.25246046	2.4793650	21	6 5.8	20.7
313778 2003 YG_{21}	17.4	X	142.79949	185.49574	327.15674	2.29827	0.1542265	0.25220163	2.4810611	21	8 2.9	21.3
313779 2003 YW_{24}	16.5	X	310.63508	285.38907	69.71230	9.70188	0.2579518	0.26461651	2.4028395	21	6 27.8	18.8
313780 2003 YY_{30}	17.0	X	233.55710	165.13382	272.30327	12.43349	0.1469124	0.26010771	2.4305276	21	7 23.9	20.7
313781 2003 YG_{45}	16.9	X	233.71558	65.52482	11.26012	6.55353	0.1101319	0.26073815	2.4266082	21	8 1.5	20.4
313782 2003 YQ_{46}	17.9	X	219.42686	48.24903	38.63819	3.00226	0.1289397	0.25964184	2.4334342	21	7 26.3	21.4
313783 2003 YS_{49}	17.0	X	190.27000	211.04280	269.72992	5.38462	0.1323843	0.25836916	2.4414187	21	8 6.5	20.7
313784 2003 YY_{64}	16.6	X	139.22052	315.90463	109.37314	15.26420	0.2424154	0.24273660	2.5451451	21	4 22.9	21.0
313785 2003 YQ_{66}	17.2	X	223.75974	345.05218	124.50937	23.87101	0.0692679	0.37027671	1.9206657	21	9 25.4	19.8
313786 2003 YZ_{70}	16.9	X	224.08733	195.18851	287.81881	4.33742	0.1773019	0.26416409	2.4055822	21	9 9.9	20.6
313787 2003 YB_{71}	16.7	X	201.23108	65.33795	63.34800	5.75113	0.1206635	0.26190649	2.4193862	21	9 3.2	20.3
313788 2003 YX_{90}	16.2	X	245.41560	311.12425	99.58502	15.29418	0.2235301	0.25991143	2.4317512	21	6 25.7	19.8
313789 2003 YE_{97}	17.0	X	206.18510	265.51085	168.03589	2.60470	0.1067872	0.25559149	2.4590751	21	6 24.2	20.7
313790 2003 YL_{111}	16.3	X	234.85391	242.73371	125.39414	15.07794	0.1985304	0.25414601	2.4683904	21	4 30.1	20.6
313791 2003 YO_{117}	17.1	X	332.97219	61.05231	311.38355	20.02432	0.0579803	0.37506635	1.9042793	21	10 4.4	19.3
313792 2003 YO_{141}	16.3	X	93.33220	62.57450	44.36606	11.89132	0.0247490	0.24101959	2.5572184	21	3 22.9	19.7
313793 2003 YD_{154}	15.9	X	125.82860	56.14741	65.49261	15.44688	0.0807191	0.24595247	2.5229110	21	5 27.2	19.1
313794 2003 YA_{155}	16.0	X	121.39478	105.61567	328.57625	16.85123	0.1489790	0.24089544	2.5580970	21	3 21.6	19.8
313795 2003 YH_{159}	16.6	X	226.46113	87.83462	294.17633	8.84045	0.1648839	0.25319258	2.4745833	21	5 2.3	20.7
313796 2003 YV_{168}	16.4	X	141.57780	244.69039	294.54854	12.14050	0.1363694	0.25743271	2.4473358	21	8 30.0	20.4
313797 2004 AA	17.6	X	202.01599	51.97130	43.07857	1.73133	0.1538466	0.25649190	2.4533167	21	7 16.6	21.3
313798 2004 AY_{4}	17.3	X	256.84622	260.41628	121.61291	25.30228	0.1333156	0.36539049	1.9377506	21	6 12.4	20.1
313799 2004 AD_{8}	16.8	X	4.40341	69.35632	272.50299	18.52996	0.1037962	0.37470639	1.9054987	21	10 29.0	18.8
313800 2004 BS_{12}	17.5	X	140.56432	159.34370	319.42720	6.49104	0.0796172	0.24740907	2.5129989	21	6 9.8	21.1
313801 2004 BH_{13}	14.6	X	16.53829	97.34959	107.05094	3.99951	0.1349160	0.12547695	3.9514827	21	4 26.4	19.4
313802 2004 BL_{16}	16.3	X	138.52979	115.24117	304.29464	16.65881	0.1526659	0.24247362	2.5469850	21	3 20.1	20.4
313803 2004 BK_{17}	15.7	X	71.07931	138.59286	59.49372	15.10338	0.1166296	0.24535514	2.5270041	21	7 4.0	19.0
313804 2004 BC_{21}	17.6	X	149.05127	344.02021	124.52471	3.63713	0.1750835	0.24777136	2.5105486	21	6 13.6	21.6
313805 2004 BE_{22}	16.5	X	136.64656	243.36941	152.71056	5.03819	0.2804934	0.23946892	2.5682459	21	3 12.9	20.6
313806 2004 BR_{22}	16.4	X	19.54257	272.73008	303.10909	10.22734	0.1428380	0.24126310	2.5554974	21	4 26.3	19.1
313807 2004 BY_{34}	17.0	X	119.07237	98.13259	340.84695	2.57477	0.1996066	0.23971733	2.5664714	21	4 7.5	20.6
313808 2004 BA_{39}	16.4	X	180.37467	300.54770	67.15910	3.97016	0.2437260	0.24229724	2.5482209	21	3 12.8	20.8
313809 2004 BH_{41}	19.3	X	261.76512	200.35533	123.20036	30.44826	0.5002789	0.75454632	1.1949382	21	1 29.2	20.2
313810 2004 BK_{56}	15.5	X	30.19201	351.29186	141.12911	34.20776	0.1709125	0.22999894	2.6382675	21	1 22.6	18.4
313811 2004 BZ_{59}	16.1	X	241.07425	358.67888	289.00806	15.74257	0.0231685	0.23375511	2.6099287	21	1 28.6	19.7
313812 2004 BD_{65}	17.0	X	175.23574	312.67077	109.87007	12.61253	0.1034421	0.24577743	2.5241087	21	5 12.2	21.0
313813 2004 BA_{69}	15.2	X	5.65967	238.64821	309.52028	32.61564	0.2785180	0.22968223	2.6406922	21	2 3.9	17.6
313814 2004 BU_{84}	15.8	X	50.22955	278.62400	243.07942	13.66147	0.1157379	0.23807092	2.5782903	21	4 3.6	19.0
313815 2004 BW_{84}	17.1	X	107.69847	211.63684	263.24338	4.08838	0.1912797	0.24140094	2.5545245	21	5 10.3	20.6
313816 2004 BN_{99}	16.6	X	156.11069	321.36368	112.06388	5.47035	0.1254834	0.23923810	2.5698976	21	5 5.2	20.6
313817 2004 BO_{101}	16.0	X	24.43559	278.37904	304.06830	26.79495	0.3076454	0.23749682	2.5824437	21	6 11.7	18.3
313818 2004 BR_{102}	16.5	X	45.94628	288.67962	263.30846	10.54714	0.2099315	0.24027712	2.5624837	21	5 27.7	18.8
313819 2004 BH_{119}	16.3	X	14.50446	75.39573	97.14103	13.78251	0.1925218	0.23168341	2.6254641	21	2 19.2	18.9
313820 2004 BP_{121}	16.3	X	153.33342	52.20677	29.56656	16.96334	0.1931492	0.24371473	2.5383306	21	5 11.7	20.5
313821 2004 BY_{129}	17.5	X	194.47302	237.23951	145.62235	3.61390	0.1702194	0.24409490	2.5356944	21	4 9.0	21.5
313822 2004 BS_{146}	14.5	X	53.39366	57.32489	122.15044	5.12930	0.0857216	0.12734266	3.9127921	21	5 16.5	19.7
313823 2004 CM_{1}	17.4	X	54.40198	293.14608	323.76116	18.25144	0.0434634	0.36614843	1.9350756	21	8 26.8	19.0
313824 2004 CW_{1}	16.8	X	304.13758	20.66332	343.83502	21.58792	0.1301119	0.36827309	1.9276258	21	8 7.8	18.4
313825 2004 CK_{2}	17.2	X	353.35285	9.12806	324.10626	18.33177	0.0487941	0.36771114	1.9295892	21	9 11.3	19.0
313826 2004 CT_{4}	16.0	X	32.06963	255.89257	335.43307	14.61510	0.0874706	0.24467389	2.5316925	21	6 14.3	19.3
313827 2004 CG_{5}	16.5	X	107.23033	343.50802	122.46057	13.20577	0.1154159	0.23896484	2.5718564	21	4 24.1	20.2
313828 2004 CW_{13}	17.4	X	95.55060	36.56965	104.05213	2.00853	0.1822484	0.24124903	2.5555968	21	5 29.8	20.7
313829 2004 CG_{14}	17.1	X	154.80800	15.06255	77.86589	2.43866	0.0825825	0.24518508	2.5281724	21	5 23.8	20.7
313830 2004 CD_{22}	17.0	X	63.44155	20.02388	163.13779	7.04506	0.2363652	0.24020640	2.5629866	21	6 21.4	20.0
313831 2004 CW_{22}	16.9	X	221.25744	11.59770	47.79729	2.84518	0.1742028	0.25267422	2.4779665	21	6 17.2	20.7
313832 2004 CE_{27}	16.8	X	134.38851	288.66148	145.47347	12.28506	0.3182353	0.24137608	2.5546999	21	5 3.1	21.3
313833 2004 CS_{50}	15.9	X	83.21002	89.10997	42.59924	27.47863	0.2560512	0.23866487	2.5740109	21	5 9.7	19.1
313834 2004 CU_{56}	17.3	X	176.42202	81.44819	347.07695	18.31798	0.0912714	0.35810283	1.9639521	21	4 28.9	20.1
313835 2004 CR_{74}	18.3	X	204.99257	327.16487	156.74892	6.32409	0.1316173	0.37056302	1.9196763	21	9 4.5	20.3
313836 2004 CM_{84}	16.9	X	79.87023	37.98788	139.07968	5.76350	0.1092012	0.24365771	2.5387266	21	6 16.4	20.1
313837 2004 CP_{100}	16.8	X	133.48326	351.07761	123.38289	5.88801	0.1610225	0.24286500	2.5442479	21	6 5.3	20.6
313838 2004 DR_{1}	17.3	X	313.74981	326.62304	334.77718	18.51088	0.0802355	0.35672398	1.9690097	21	4 22.7	19.8
313839 2004 DJ_{2}	16.7	X	334.12625	5.01468	321.19254	19.32210	0.0961735	0.36314270	1.9457386	21	8 1.2	17.9
313840 2004 DD_{18}	17.1	X	200.93724	144.94584	346.47097	20.53820	0.0171159	0.36716632	1.9314975	21	9 19.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313841 2004 DV_{22}	16.6	X	123.51595	54.42438	47.46090	5.05398	0.1951760	0.23963468	2.5670615	21	5 12.1	20.4
313842 2004 DC_{25}	17.7	X	175.78263	55.92050	168.35844	24.78568	0.0949590	0.37861114	1.8923747	21	12 30.5	20.6
313843 2004 DQ_{26}	16.9	X	52.70965	95.49538	131.30137	9.91641	0.1857450	0.24505729	2.5290512	21	7 28.4	19.6
313844 2004 DM_{45}	17.1	X	32.38826	260.16363	5.90124	20.86211	0.0639313	0.36103025	1.9533212	21	8 22.4	19.2
313845 2004 DZ_{58}	16.6	X	112.61107	259.99061	344.47079	7.28029	0.0491151	0.25797571	2.4439004	21	10 19.2	20.0
313846 2004 DL_{62}	16.2	X	353.71185	74.92027	170.59689	27.50899	0.3214543	0.23060440	2.6336475	21	4 4.9	18.3
313847 2004 EF_{32}	15.4	X	234.67913	216.47728	295.54080	13.97615	0.0859391	0.20468841	2.8515033	21	10 30.6	19.8
313848 2004 EQ_{33}	17.6	X	226.13341	232.68518	174.22721	23.39628	0.0917992	0.35878246	1.9614711	21	6 10.9	20.7
313849 2004 EY_{37}	17.3	X	85.74764	3.42709	186.59159	5.23607	0.2103911	0.24325171	2.5415507	21	7 26.4	20.8
313850 2004 EO_{39}	16.7	X	10.25458	75.07776	177.20980	12.02928	0.1361226	0.23947266	2.5682192	21	6 9.5	19.5
313851 2004 EB_{41}	17.4	X	95.44758	201.82472	342.25199	7.02388	0.2021385	0.24374670	2.5381087	21	7 31.7	21.1
313852 2004 ED_{43}	16.9	X	87.65523	9.41421	164.18599	5.98546	0.2239221	0.24111847	2.5565192	21	7 9.0	20.5
313853 2004 EV_{62}	16.7	X	0.04048	266.48506	336.94467	12.11581	0.1243408	0.23734892	2.5835163	21	4 29.2	19.7
313854 2004 EB_{95}	15.8	X	240.98712	176.58074	121.37657	12.96507	0.1775170	0.22193379	2.7018035	21	2 7.9	20.2
313855 2004 EF_{114}	15.8	X	92.24916	156.35295	344.03974	22.05974	0.0058897	0.23455748	2.6039733	21	4 15.5	19.8
313856 2004 FK	16.6	X	239.83784	219.73502	186.72630	26.76623	0.0837954	0.36044743	1.9554262	21	6 26.1	19.7
313857 2004 FS_{7}	16.4	X	142.26605	280.47335	179.83802	26.88757	0.3168775	0.24308296	2.5427268	21	6 7.3	21.5
313858 2004 FZ_{9}	16.8	X	23.36016	261.40359	341.72764	11.70605	0.1375581	0.24093860	2.5577914	21	6 21.5	19.7
313859 2004 FM_{65}	16.9	X	131.00126	67.82509	61.59078	4.66151	0.2291603	0.24204443	2.5499950	21	6 27.3	20.9
313860 2004 FJ_{68}	15.9	X	292.85624	141.49580	48.90755	10.12132	0.1111544	0.21591034	2.7518225	21	—	—
313861 2004 FL_{112}	17.1	X	76.77809	311.91368	218.51763	2.35652	0.1402884	0.23883057	2.5728202	21	6 7.4	20.1
313862 2004 FB_{121}	15.7	X	44.31521	170.91639	35.51840	30.50725	0.1648017	0.23641921	2.5902849	21	5 29.2	18.9
313863 2004 FT_{122}	17.5	X	106.41524	237.40246	349.55848	19.53653	0.0472021	0.36402420	1.9425962	21	9 27.2	19.6
313864 2004 FC_{131}	16.2	X	10.78998	136.35707	87.73942	13.45570	0.1511634	0.23393674	2.6085776	21	5 3.3	19.0
313865 2004 FK_{136}	16.2	X	300.64530	75.28056	180.40483	28.10540	0.2580974	0.22345103	2.6895594	21	1 31.6	20.8
313866 2004 FW_{139}	16.0	X	35.11006	200.21984	346.66495	33.06956	0.1431540	0.23294325	2.6159893	21	3 31.6	19.3
313867 2004 FP_{143}	16.6	X	0.70283	130.57265	90.67918	13.36177	0.2781895	0.23027980	2.6361219	21	3 28.9	19.0
313868 2004 FC_{144}	17.2	X	118.82170	264.27263	216.07250	2.76197	0.1284463	0.23929868	2.5694639	21	5 23.6	20.8
313869 2004 GG_{15}	15.9	X	321.93202	147.70112	110.38905	18.38153	0.1756806	0.23001012	2.6381820	21	3 24.1	19.5
313870 2004 GV_{18}	15.8	X	33.51564	53.09310	169.10995	18.88415	0.2126576	0.23394582	2.6085101	21	6 19.8	18.8
313871 2004 GH_{19}	16.2	X	134.82490	348.78563	140.30396	30.99310	0.1578942	0.24172691	2.5522275	21	6 28.9	20.6
313872 2004 GE_{27}	15.9	X	285.79363	146.42726	116.35790	15.05189	0.1812697	0.22183849	2.7025772	21	2 7.5	20.0
313873 2004 GB_{34}	15.7	X	8.88852	111.96284	63.41957	13.04511	0.1114924	0.22415569	2.6839198	21	2 23.4	19.0
313874 2004 GG_{35}	16.8	X	37.63545	146.12327	25.43243	4.35678	0.1797749	0.23160140	2.6260839	21	4 6.1	19.0
313875 2004 GN_{36}	16.7	X	18.23341	184.95960	26.72049	15.05969	0.2139554	0.23154261	2.6265284	21	4 23.2	18.8
313876 2004 GF_{48}	16.4	X	186.48396	269.10974	34.02856	9.04024	0.1725585	0.21355904	2.7719841	21	—	—
313877 2004 GS_{49}	17.2	X	45.77737	146.10293	2.88609	4.20140	0.1630742	0.22966715	2.6408078	21	3 19.0	19.6
313878 2004 GU_{73}	16.6	X	343.54903	147.81119	104.27379	5.96809	0.2937499	0.23049256	2.6344994	21	3 27.6	19.1
313879 2004 GT_{77}	16.0	X	312.05488	126.78299	120.77277	15.56073	0.0985577	0.22616146	2.6680276	21	3 4.5	19.7
313880 2004 GB_{78}	16.3	X	53.30401	135.38177	21.96434	15.33168	0.1556167	0.23059247	2.6337384	21	4 13.2	19.1
313881 2004 HX	15.6	X	206.85472	232.47255	57.37840	28.95702	0.2179405	0.21302413	2.7766225	21	—	—
313882 2004 HX_{2}	17.1	X	70.46173	102.88529	107.05285	5.06298	0.2618556	0.24038782	2.5616969	21	8 13.4	20.6
313883 2004 HU_{8}	16.7	X	14.49868	114.68355	104.75962	4.21535	0.1245609	0.23261025	2.6184854	21	4 30.1	19.4
313884 2004 HU_{15}	17.2	X	81.23278	259.86009	226.72051	2.79766	0.1574243	0.23171206	2.6252477	21	4 16.4	20.2
313885 2004 HU_{37}	16.7	X	358.60374	179.82528	2.21765	3.10982	0.2112186	0.22540680	2.6739793	21	1 27.5	19.3
313886 2004 HO_{46}	17.3	X	78.41105	115.06689	46.41476	3.31544	0.1030430	0.23537861	2.5979137	21	5 21.9	20.5
313887 2004 HH_{48}	16.5	X	353.77503	306.85417	270.37294	11.47096	0.1927821	0.22915117	2.6447706	21	3 2.8	19.6
313888 2004 HK_{48}	16.2	X	325.79291	293.07444	271.20201	11.20771	0.1065779	0.22313565	2.6920931	21	1 19.4	19.8
313889 2004 HD_{62}	15.9	X	48.88099	258.52967	312.54940	27.13089	0.3550401	0.23330031	2.6133195	21	7 31.4	18.7
313890 2004 HJ_{66}	16.2	X	66.41346	62.67398	96.47863	15.58068	0.1025734	0.23063903	2.6333840	21	5 7.7	19.7
313891 2004 HW_{70}	15.9	X	258.92012	134.89331	124.04580	9.47842	0.1175083	0.21755249	2.7379574	21	1 12.2	20.1
313892 2004 JF	16.8	X	76.69691	98.02922	45.31055	13.20724	0.2257575	0.23328923	2.6134022	21	5 13.6	20.0
313893 2004 JO_{10}	16.1	X	46.05666	79.88786	120.05319	8.41578	0.1477919	0.23415615	2.6069478	21	6 2.3	19.0
313894 2004 JT_{47}	16.7	X	77.42582	66.34818	68.25542	8.97610	0.1559531	0.22998464	2.6383768	21	4 25.2	20.0
313895 2004 KA_{16}	15.7	X	298.35655	143.22038	125.92833	15.13192	0.1425945	0.22300021	2.6931830	21	3 8.6	19.6
313896 2004 KY_{18}	12.9	X	334.18147	263.84648	149.25385	15.97514	0.0930669	0.08009300	5.3301532	21	10 31.0	19.6
313897 2004 LX_{3}	16.4	X	351.98772	303.31150	283.68149	10.11933	0.2528434	0.22801862	2.6535209	21	3 5.7	19.3
313898 2004 LD_{4}	15.5	X	181.56145	152.63661	161.76878	14.91271	0.2080773	0.20366059	2.8610892	21	1 10.7	20.5
313899 2004 LR_{4}	16.1	X	341.04210	96.14684	135.32223	13.14524	0.2281789	0.22551824	2.6730983	21	3 4.4	19.1
313900 2004 ND_{3}	15.9	X	23.69728	136.01274	107.97180	13.54776	0.2712300	0.23113123	2.6296441	21	7 9.2	17.7
313901 2004 NA_{6}	16.1	X	323.82165	118.83814	143.50111	6.41390	0.2572411	0.22314518	2.6920164	21	3 13.4	19.4
313902 2004 NE_{12}	16.2	X	314.72952	210.50834	107.05449	14.14090	0.1759045	0.22651468	2.6652532	21	5 29.6	19.5
313903 2004 NH_{19}	16.0	X	264.76429	153.76730	134.41385	13.33318	0.1586542	0.21589877	2.7519208	21	2 20.2	20.2
313904 2004 NE_{23}	15.3	X	137.05717	15.43860	314.17933	20.18908	0.1174741	0.19667790	2.9284131	21	—	—
313905 2004 NB_{29}	15.8	X	58.10729	191.46067	139.49133	16.79903	0.1830487	0.18633430	3.0358072	21	12 13.9	20.5
313906 2004 PP_{1}	15.7	X	55.11338	15.43381	333.25330	7.33439	0.2230796	0.18511606	3.0491116	21	—	—
313907 2004 PO_{26}	15.6	X	32.80602	339.83321	344.36517	10.07469	0.1222680	0.17799608	3.1298901	21	10 18.0	19.8
313908 2004 PO_{29}	16.0	X	24.53835	204.23556	142.03323	9.81261	0.1244011	0.18111697	3.0938312	21	11 11.1	20.1
313909 2004 PF_{49}	15.6	X	12.19624	252.16346	121.70431	14.67639	0.2320578	0.18220487	3.0815039	21	12 10.7	19.3
313910 2004 PO_{63}	15.9	X	25.44116	85.30715	267.04738	8.00153	0.1105372	0.18302468	3.0722953	21	11 13.9	19.9
313911 2004 PE_{72}	16.1	X	256.37089	147.58201	133.47934	15.30215	0.1355803	0.21141936	2.7906554	21	2 5.0	20.2
313912 2004 PY_{79}	15.9	X	77.36192	28.38791	351.56635	7.54229	0.1134000	0.19515745	2.9436034	21	—	—
313913 2004 PP_{82}	15.3	X	51.40047	42.54741	342.88712	12.77052	0.1631895	0.18927830	3.0042461	21	—	—
313914 2004 PF_{103}	17.0	X	334.66267	175.78590	221.72863	5.54248	0.2545490	0.29194349	2.2504543	21	12 1.2	18.0
313915 2004 PW_{108}	17.7	X	42.91211	39.68196	337.42324	5.75488	0.1853023	0.30363197	2.1923222	21	—	—
313916 2004 PS_{117}	15.1	X	12.66166	225.91851	118.76702	25.87126	0.2064255	0.17862090	3.1225869	21	11 8.6	19.3
313917 2004 QO_{7}	15.8	X	336.52285	75.13990	343.77659	11.38540	0.1375822	0.18111068	3.0939029	21	11 20.7	19.7
313918 2004 QC_{22}	15.3	X	345.09125	55.39411	290.60901	26.93719	0.2839204	0.17338169	3.1851794	21	8 15.1	18.6
313919 2004 RB	16.2	X	86.42067	34.59825	305.31393	9.23298	0.0753458	0.19278617	2.9676918	21	—	—
313920 2004 RQ	15.8	X	15.36821	62.86909	279.66938	15.04657	0.3099155	0.17764074	3.1340626	21	11 10.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
313921 Daassou	15.2	X	331.07416	165.06827	208.06025	13.03281	0.2286649	0.17352862	3.1833812	21	9 2.8	18.8
313922 2004 RG_{7}	15.2	X	17.46856	206.28097	144.34107	18.39684	0.2069195	0.17838257	3.1253676	21	11 18.5	19.3
313923 2004 RK_{17}	15.8	X	168.03084	107.56484	176.37986	9.61866	0.0266278	0.19341404	2.9612657	21	—	—
313924 2004 RA_{26}	15.8	X	308.68282	259.04414	156.59017	9.12699	0.2042695	0.17344172	3.1844443	21	9 25.9	19.4
313925 2004 RY_{36}	16.0	X	338.44915	237.38378	165.05818	12.92141	0.1581147	0.17901890	3.1179570	21	11 9.3	19.7
313926 2004 RM_{59}	15.3	X	4.68905	177.47750	166.52120	17.90582	0.2174927	0.17468723	3.1692898	21	10 15.2	18.8
313927 2004 RQ_{59}	15.2	X	8.20775	332.17714	16.14794	17.12716	0.2010322	0.17587701	3.1549804	21	10 20.2	18.8
313928 2004 RM_{60}	15.9	X	4.45271	164.53523	180.84387	7.32797	0.1681063	0.17562970	3.1579415	21	10 9.5	19.4
313929 2004 RN_{81}	15.5	X	339.74830	57.78389	345.13646	15.04674	0.1678963	0.17794983	3.1304324	21	11 1.6	19.3
313930 2004 RF_{85}	15.7	X	292.74832	70.86609	15.68244	9.31393	0.0849126	0.17549435	3.1595650	21	10 23.3	19.8
313931 2004 RT_{90}	16.2	X	10.17698	57.13899	290.36106	10.53457	0.1842963	0.17848176	3.1242096	21	10 18.7	20.0
313932 2004 RQ_{92}	16.4	X	260.92210	309.28779	314.54713	11.41808	0.2120800	0.20940081	2.8085607	21	1 16.1	21.0
313933 2004 RH_{95}	16.1	X	58.08652	128.29569	205.33077	4.03189	0.1361145	0.18506406	3.0496827	21	12 8.7	20.4
313934 2004 RL_{95}	16.0	X	52.39736	29.17307	313.91526	10.21912	0.1416572	0.18511371	3.0491374	21	12 13.7	20.4
313935 2004 RN_{97}	16.0	X	61.64292	150.43921	215.86774	3.09735	0.0652043	0.18881714	3.0091357	21	—	—
313936 2004 RS_{98}	15.5	X	51.32729	6.09973	322.04431	11.05979	0.1263249	0.18153839	3.0890414	21	11 18.6	20.0
313937 2004 RP_{99}	16.0	X	337.80215	50.19380	313.62002	4.15976	0.2189232	0.17304493	3.1893104	21	9 8.2	19.2
313938 2004 RB_{101}	15.4	X	310.34367	93.71724	322.21454	8.09059	0.0522254	0.17711896	3.1402147	21	10 10.4	19.8
313939 2004 RH_{101}	15.7	X	26.76731	142.95397	199.09606	4.35040	0.1409004	0.17884540	3.1199733	21	11 8.1	19.6
313940 2004 RN_{128}	15.8	X	280.82407	77.78089	343.67187	12.72179	0.1062657	0.17206264	3.2014372	21	9 3.8	20.0
313941 2004 RV_{147}	16.0	X	322.27737	47.78287	3.63677	9.68038	0.1066838	0.17786008	3.1314854	21	10 19.8	20.0
313942 2004 RW_{147}	15.5	X	23.49456	10.41754	352.34493	14.59308	0.1644371	0.17992992	3.1074236	21	11 28.3	19.7
313943 2004 RR_{151}	16.4	X	36.11736	48.41932	318.01559	4.07615	0.0416036	0.18469653	3.0537271	21	12 7.6	20.6
313944 2004 RZ_{155}	15.2	X	257.68423	128.00573	341.28051	10.78930	0.0315245	0.17787436	3.1313178	21	10 10.8	19.8
313945 2004 RN_{159}	16.2	X	184.44422	30.33416	187.65481	10.37140	0.0370083	0.18506843	3.0496347	21	12 1.2	20.8
313946 2004 RR_{159}	15.2	X	329.49068	109.03909	269.47884	8.86688	0.1305194	0.17195327	3.2027946	21	9 13.6	19.2
313947 2004 RO_{177}	15.9	X	282.95847	120.49782	306.06589	9.16500	0.2329066	0.16961165	3.2322053	21	8 22.4	20.4
313948 2004 RK_{178}	15.5	X	9.24311	38.50722	300.93799	9.47219	0.0570449	0.17479333	3.1680071	21	9 24.9	19.8
313949 2004 RJ_{180}	15.9	X	222.35260	321.66012	306.07410	7.44535	0.1999118	0.20092102	2.8870377	21	—	—
313950 2004 RV_{182}	17.2	X	267.65689	56.52378	318.73946	6.23670	0.1533224	0.28044396	2.3115608	21	6 9.9	20.3
313951 2004 RQ_{195}	15.0	X	256.19088	121.38933	339.58517	15.81942	0.1914691	0.17093600	3.2154890	21	9 8.8	19.8
313952 2004 RT_{197}	15.4	X	133.02597	341.99044	343.84634	9.79866	0.1084947	0.19198094	2.9759843	21	—	—
313953 2004 RX_{198}	15.5	X	346.10307	42.59228	340.02301	14.18527	0.1857370	0.17311068	3.1885029	21	10 17.0	19.2
313954 2004 RC_{204}	15.7	X	76.99145	34.65332	280.54763	17.83731	0.1674378	0.18354867	3.0664453	21	12 11.1	20.5
313955 2004 RF_{215}	15.3	X	239.26672	129.32852	333.17167	19.41743	0.1430671	0.16845696	3.2469586	21	8 29.7	20.2
313956 2004 RB_{237}	15.9	X	91.77238	111.05092	187.89975	9.32184	0.1007947	0.18340664	3.0680282	21	11 30.7	20.6
313957 2004 RJ_{250}	16.2	X	39.27028	31.08462	336.38198	4.54920	0.1529638	0.18283109	3.0744636	21	12 28.6	20.4
313958 2004 RT_{255}	15.3	X	67.73412	197.27317	117.88431	20.19778	0.2177331	0.18114202	3.0935460	21	12 10.2	20.2
313959 2004 RB_{272}	16.3	X	287.55747	265.75157	160.95028	9.61845	0.0711886	0.17489524	3.1667763	21	9 25.9	20.5
313960 2004 RH_{301}	16.1	X	149.38868	199.61449	118.24994	1.30805	0.0158184	0.19399262	2.9553748	21	—	—
313961 2004 RM_{307}	15.3	X	309.91798	19.91058	353.15823	15.55528	0.0628902	0.16887524	3.2415948	21	8 22.8	19.7
313962 2004 RT_{312}	15.3	X	269.37705	122.33745	324.40181	26.45017	0.2451966	0.16909617	3.2387707	21	8 26.9	20.1
313963 2004 RS_{338}	16.0	X	331.74966	243.82838	118.79302	2.21380	0.0398333	0.16842189	3.2474092	21	9 7.0	20.3
313964 2004 RL_{340}	14.8	X	27.60079	11.82865	316.67596	22.36892	0.0882742	0.17415361	3.1757604	21	10 1.6	19.5
313965 2004 RQ_{343}	15.0	X	318.75455	155.34837	241.85609	21.72160	0.1242452	0.17125106	3.2115439	21	9 17.1	19.5
313966 2004 RJ_{346}	15.4	X	34.30656	305.34417	19.59469	9.33161	0.0915905	0.17735074	3.1374781	21	10 20.1	19.6
313967 2004 SN_{1}	16.2	X	4.90177	169.36752	182.99868	6.23898	0.0983407	0.17655294	3.1469228	21	10 14.1	20.0
313968 2004 SF_{29}	15.6	X	84.20040	337.67117	359.92124	15.43673	0.1326611	0.18623505	3.0368857	21	—	—
313969 2004 SF_{38}	16.1	X	288.86620	129.85145	335.63750	11.40094	0.0668899	0.18261493	3.0768893	21	11 10.9	20.5
313970 2004 SG_{59}	17.4	X	319.58501	72.94632	314.42495	6.08211	0.1953717	0.28796140	2.2711537	21	9 21.9	19.1
313971 2004 TZ_{1}	15.9	X	32.57128	124.83086	210.68084	4.56349	0.2412211	0.17800368	3.1298011	21	11 22.7	19.7
313972 2004 TL_{6}	15.4	X	20.23199	228.25169	120.78168	11.54152	0.2208269	0.17838701	3.1253158	21	11 20.9	19.3
313973 2004 TD_{11}	15.3	X	52.58404	82.56801	261.19241	22.29932	0.1582415	0.18130792	3.0916586	21	12 16.1	19.6
313974 2004 TW_{56}	17.9	X	343.01194	165.86560	309.76705	2.09792	0.0518426	0.30721568	2.1752397	21	—	—
313975 2004 TU_{58}	16.3	X	169.20953	101.66634	178.12836	1.53562	0.0937655	0.19071738	2.9891144	21	—	—
313976 2004 TF_{61}	17.9	X	314.01980	300.84828	94.65397	3.97121	0.1698286	0.28939538	2.2636450	21	10 1.9	19.6
313977 2004 TQ_{62}	18.1	X	114.15220	99.91762	236.25897	2.61590	0.2241303	0.30826618	2.1702951	21	—	—
313978 2004 TZ_{65}	16.7	X	202.69907	346.77977	41.17725	7.01216	0.1374589	0.27009395	2.3702427	21	4 20.5	20.2
313979 2004 TN_{78}	15.1	X	305.71671	82.40205	329.54940	17.14395	0.1533562	0.17085302	3.2165300	21	9 14.9	19.2
313980 2004 TW_{79}	15.8	X	272.36124	134.32482	359.03895	10.74614	0.0727660	0.18082321	3.0971811	21	11 23.6	20.2
313981 2004 TJ_{80}	15.9	X	237.00077	217.56229	354.23133	8.71676	0.0826570	0.18908459	3.0062975	21	—	—
313982 2004 TU_{84}	15.4	X	63.07645	257.56645	12.71965	12.85873	0.0328551	0.17016434	3.2252027	21	9 14.9	19.9
313983 2004 TX_{90}	15.7	X	121.62826	47.27974	216.33095	15.16130	0.1367209	0.17879324	3.1205800	21	11 20.6	20.7
313984 2004 TY_{93}	15.8	X	243.40936	78.14425	21.91862	11.56297	0.1257708	0.16693940	3.2666064	21	9 7.5	20.7
313985 2004 TG_{102}	15.5	X	82.08888	33.83848	308.72854	8.01330	0.1351768	0.18528868	3.0472176	21	—	—
313986 2004 TQ_{119}	15.8	X	1.87424	69.21562	281.71226	9.19719	0.1029358	0.17396731	3.1780273	21	10 1.5	20.0
313987 2004 TV_{124}	15.6	X	66.04294	310.43218	10.88918	9.38868	0.0652621	0.18041720	3.1018260	21	11 20.1	20.1
313988 2004 TR_{133}	16.9	X	215.17477	1.67413	29.54122	5.86716	0.2298578	0.27047731	2.3680025	21	5 2.9	20.9
313989 2004 TZ_{138}	15.7	X	335.09882	57.34562	336.03714	10.78231	0.0680611	0.17562835	3.1579577	21	10 14.9	19.9
313990 2004 TT_{147}	15.5	X	255.69329	171.61101	8.03040	11.60126	0.0021862	0.18546290	3.0453089	21	—	—
313991 2004 TW_{171}	15.3	X	65.47147	51.07365	285.74421	16.56823	0.1044173	0.17941628	3.1133515	21	12 16.1	19.8
313992 2004 TA_{183}	15.3	X	176.02095	201.28751	6.94101	14.99218	0.1024846	0.17826147	3.1267828	21	11 1.0	20.4
313993 2004 TZ_{194}	15.3	X	58.65061	143.60069	213.18513	15.70929	0.1337616	0.18226679	3.0808060	21	—	—
313994 2004 TQ_{201}	17.9	X	355.01286	45.51500	358.09110	3.31839	0.1125329	0.29410172	2.2394309	21	—	—
313995 2004 TV_{210}	17.3	X	19.25383	187.93588	202.56393	4.72508	0.1237686	0.29888407	2.2154785	21	—	—
313996 2004 TE_{225}	16.4	X	64.56174	274.61725	37.95695	3.11712	0.0793834	0.17866365	3.1220888	21	11 11.7	20.9
313997 2004 TG_{255}	18.1	X	348.72993	257.75448	168.85741	2.78832	0.1183092	0.29928706	2.2134893	21	—	—
313998 2004 TM_{261}	15.6	X	143.67315	245.37223	33.95502	9.11547	0.0471213	0.18387897	3.0627720	21	12 27.5	20.2
313999 2004 TY_{336}	17.3	X	69.38814	144.79571	216.80492	4.10386	0.1373127	0.30084193	2.2058559	21	—	—
314000 2004 TN_{346}	15.1	X	303.29989	188.06150	225.96672	15.40837	0.1313192	0.16947449	3.2339489	21	9 17.2	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314001 2004 TU_{346}	15.5	X	320.83113	132.04273	262.80026	4.54058	0.1554639	0.17000449	3.2272241	21	9 20.6	19.4
314002 2004 TA_{348}	15.7	X	333.43865	39.80926	344.66994	8.09848	0.1191798	0.17679087	3.1440986	21	10 2.2	19.6
314003 2004 TO_{359}	15.2	X	210.53313	311.12661	293.10568	9.03094	0.0580174	0.19004189	2.9961933	21	—	—
314004 2004 TG_{366}	17.3	X	108.70160	255.38616	85.96809	5.62283	0.2380424	0.30681272	2.1771440	21	—	—
314005 2004 UK	16.4	X	305.18855	273.44629	170.25068	21.07390	0.3727442	0.28653101	2.2787060	21	11 6.6	17.6
314006 2004 UX_3	17.3	X	332.10857	352.19589	313.65934	3.69689	0.2254114	0.28152771	2.3056247	21	5 27.9	19.0
314007 2004 UO_5	17.2	X	51.41409	28.30751	0.13096	7.86262	0.1072754	0.30285911	2.1960503	21	—	—
314008 2004 UW_7	17.5	X	18.94451	23.29132	7.83262	3.95123	0.1794118	0.29740181	2.2228338	21	—	—
314009 2004 VR_{22}	15.4	X	14.69890	113.45528	241.79532	7.54060	0.1368797	0.17249795	3.1960490	21	11 3.2	19.3
314010 2004 VO_{23}	16.8	X	43.37469	130.67578	242.96973	6.14989	0.1717646	0.29833104	2.2182156	21	—	—
314011 2004 VV_{28}	15.6	X	276.58648	7.03241	69.96153	7.20938	0.0979961	0.16765053	3.2573625	21	9 22.1	20.2
314012 2004 VS_{63}	16.8	X	30.26413	297.10962	79.11767	8.96879	0.2309091	0.29706232	2.2245269	21	—	—
314013 2004 VA_{81}	18.4	X	4.65623	263.27710	167.48737	1.69319	0.1280611	0.29927035	2.2135717	21	—	—
314014 2004 VV_{99}	16.3	X	125.96389	43.90221	209.51722	0.94167	0.1594769	0.17604669	3.1529528	21	11 13.0	21.2
314015 2004 VK_{112}	15.2	X	280.45667	220.68278	223.21994	16.05923	0.1418054	0.17045680	3.2215126	21	9 21.5	19.9
314016 2004 VC_{130}	17.9	X	333.86416	247.66522	161.00214	3.14234	0.1643195	0.29086725	2.2560021	21	12 8.2	19.6
314017 2004 WO_3	15.1	X	296.92530	356.00754	64.41435	9.31800	0.0204657	0.16813501	3.2511021	21	10 8.5	19.7
314018 2004 WK_5	15.0	X	70.33561	321.92257	9.72422	9.61929	0.1123850	0.17879264	3.1205870	21	12 14.8	19.7
314019 2004 WP_{11}	18.2	X	344.90154	275.19070	180.36928	1.95240	0.1093986	0.29911264	2.2143497	21	—	—
314020 2004 XF_9	16.7	X	11.38827	301.74860	56.50800	8.67548	0.1441744	0.28925762	2.2643637	21	11 28.8	18.9
314021 2004 XP_{19}	17.5	X	257.08671	345.65604	124.52060	0.78529	0.1755837	0.28407484	2.2918219	21	10 7.6	20.1
314022 2004 XR_{20}	16.8	X	266.77396	214.49848	243.91531	5.23892	0.1347462	0.28396299	2.2924237	21	10 9.6	19.4
314023 2004 XS_{25}	17.3	X	331.08345	117.64634	305.94765	3.95105	0.2238180	0.28964357	2.2623517	21	—	—
314024 2004 XH_{30}	17.7	X	58.99147	180.88969	172.40685	1.47435	0.0751478	0.29665212	2.2265771	21	—	—
314025 2004 XO_{32}	17.4	X	37.13496	99.17090	261.67061	2.24435	0.1817084	0.29425695	2.2386433	21	—	—
314026 2004 XH_{40}	17.0	X	48.17249	97.74609	275.31978	6.48102	0.1893144	0.29755832	2.2220542	21	—	—
314027 2004 XJ_{48}	17.1	X	19.06788	274.67958	98.84644	7.21874	0.1819622	0.29187395	2.2508117	21	—	—
314028 2004 XO_{64}	17.7	X	325.27813	34.37845	56.27359	4.51549	0.1222659	0.29232688	2.2484861	21	—	—
314029 2004 XJ_{76}	17.4	X	354.96834	130.29385	254.81960	3.32041	0.1527398	0.28970477	2.2620331	21	12 11.9	19.5
314030 2004 XK_{94}	17.5	X	17.08552	276.19471	86.91181	7.72087	0.1965849	0.29005854	2.2601935	21	12 24.4	19.7
314031 2004 XZ_{106}	17.0	X	13.60688	333.48055	42.81636	6.53144	0.1702974	0.29172667	2.2515692	21	—	—
314032 2004 XB_{107}	17.8	X	71.14079	3.63439	22.96923	2.59971	0.1682493	0.30440793	2.1885950	21	—	—
314033 2004 XC_{107}	17.7	X	44.68444	7.69681	0.73112	2.59592	0.2376787	0.29875617	2.2161107	21	—	—
314034 2004 XW_{119}	17.7	X	271.73901	198.66869	277.31561	2.29352	0.1687192	0.28523284	2.2856148	21	11 8.6	20.0
314035 2004 XS_{142}	17.8	X	56.53770	335.40262	10.28490	4.25332	0.1698626	0.29494142	2.2351785	21	—	—
314036 2004 YY_5	15.1	X	30.14278	262.31018	78.91235	8.11232	0.1626928	0.17095682	3.2152279	21	11 14.4	19.2
314037 2004 YT_{21}	17.3	X	219.18471	273.21898	299.77437	4.85741	0.1109158	0.28877205	2.2669013	21	—	—
314038 2004 YB_{32}	17.3	X	161.77889	65.98319	25.83827	7.32147	0.2257473	0.26454541	2.4032700	21	6 4.4	21.4
314039 2004 YT_{36}	17.1	X	323.71660	253.09383	119.76794	7.71229	0.1291878	0.27789250	2.3256882	21	9 18.3	19.2
314040 Tavannes	17.3	X	176.25227	255.59200	287.57566	4.36465	0.0819530	0.27928547	2.3179487	21	10 16.4	20.5
314041 2005 AT_2	17.5	X	277.82827	118.86181	333.36265	3.00505	0.1662294	0.28206421	2.3027002	21	10 13.7	19.7
314042 2005 AF_3	17.0	X	349.17036	309.57443	62.16643	7.14646	0.1594228	0.28455661	2.2892344	21	11 10.1	18.9
314043 2005 AM_4	17.3	X	333.46918	85.77935	331.71250	5.40319	0.1782396	0.28843473	2.2686684	21	12 21.7	19.1
314044 2005 AP_5	17.7	X	282.14468	82.14703	36.43282	4.45816	0.1553249	0.28684872	2.2770231	21	12 4.5	19.6
314045 2005 AC_7	17.1	X	313.74979	359.78843	88.60068	6.76015	0.0796859	0.28682583	2.2771442	21	12 23.9	19.1
314046 2005 AB_{12}	17.0	X	313.93543	70.32684	351.96549	5.44680	0.2003918	0.28456348	2.2891975	21	11 7.5	18.5
314047 2005 AS_{13}	17.7	X	303.64969	15.39218	51.74297	4.34754	0.1569221	0.28470466	2.2884407	21	10 29.3	19.5
314048 2005 AR_{14}	17.5	X	290.41729	90.38324	20.59389	5.63032	0.1759082	0.28804636	2.2707071	21	12 7.1	19.3
314049 2005 AH_{15}	17.2	X	309.01558	331.74693	83.31170	6.68804	0.1533579	0.28314767	2.2968222	21	10 24.1	19.1
314050 2005 AU_{17}	17.3	X	311.17501	316.99899	107.68278	4.84680	0.2319534	0.28524807	2.2855334	21	11 7.2	18.5
314051 2005 AM_{21}	17.6	X	294.60739	31.64908	16.70581	3.33688	0.1597449	0.27900439	2.3195052	21	9 9.9	19.8
314052 2005 AW_{24}	17.3	X	297.34823	340.48602	108.40659	4.64027	0.1483621	0.28475216	2.2881862	21	11 21.2	19.3
314053 2005 AG_{29}	17.5	X	316.32489	204.75760	242.81676	1.72451	0.0578302	0.28825242	2.2696248	21	12 27.0	19.8
314054 2005 AJ_{34}	18.0	X	185.25536	323.87341	196.52846	0.93583	0.1323543	0.27582722	2.3372830	21	9 25.2	21.3
314055 2005 AK_{36}	17.4	X	263.89786	319.29581	172.97506	4.10263	0.1662951	0.28463759	2.2888002	21	11 21.4	19.8
314056 2005 AZ_{38}	17.8	X	219.89225	103.98430	34.04695	2.94237	0.1535146	0.27769041	2.3268165	21	10 1.9	21.1
314057 2005 AN_{39}	17.1	X	192.86364	9.28469	141.45348	7.81234	0.2011276	0.27404068	2.3474302	21	9 18.4	20.8
314058 2005 AU_{45}	17.2	X	329.22800	331.92409	111.16890	5.45882	0.0791851	0.28810879	2.2703791	21	—	—
314059 2005 AZ_{52}	17.3	X	291.56275	231.38751	247.28102	6.65643	0.1483225	0.28819462	2.2699283	21	12 25.3	19.1
314060 2005 AQ_{58}	17.3	X	191.24550	235.64762	308.00600	7.71314	0.2203766	0.27879347	2.3206750	21	10 22.0	21.3
314061 2005 AR_{70}	17.5	X	305.85744	22.93590	77.81753	3.21120	0.1185276	0.28733696	2.2744430	21	12 28.1	19.4
314062 2005 AA_{75}	17.3	X	335.36308	40.52068	318.16487	2.39152	0.2081451	0.27797589	2.3252231	21	9 12.8	18.8
314063 2005 AU_{76}	17.7	X	153.15920	160.68113	49.90947	2.91888	0.1568171	0.27588769	2.3369415	21	10 28.0	21.3
314064 2005 BV_5	17.0	X	8.00105	297.42866	90.20072	7.22139	0.1115169	0.28796541	2.2711327	21	12 30.6	19.5
314065 2005 BP_6	17.0	X	268.19589	172.76163	319.67934	6.89709	0.0856826	0.28622901	2.2803086	21	12 9.9	19.6
314066 2005 BZ_9	17.4	X	308.33307	11.07003	84.95267	5.01948	0.1100041	0.28788666	2.2715468	21	12 25.9	19.3
314067 2005 BS_{11}	17.2	X	5.27942	101.31706	307.47641	6.42265	0.0910786	0.28863666	2.2676101	21	—	—
314068 2005 BV_{20}	17.7	X	209.48155	153.98934	32.55146	0.98152	0.0707404	0.28333895	2.2957884	21	12 3.7	20.4
314069 2005 BB_{27}	16.9	X	255.20681	123.46745	45.71060	22.88987	0.2564320	0.28476600	2.2881121	21	12 8.8	19.7
314070 2005 CG_1	17.8	X	289.10103	129.80861	321.70658	2.34060	0.1415764	0.28370024	2.2938389	21	11 6.9	19.9
314071 2005 CO_1	17.5	X	287.63156	143.22768	319.44520	1.57530	0.1170934	0.28430107	2.2906060	21	11 25.0	19.5
314072 2005 CQ_6	16.0	X	208.57600	140.01352	325.10090	25.17908	0.2206541	0.27118796	2.3638638	21	8 5.7	19.9
314073 2005 CW_6	15.7	X	135.05898	329.61586	284.30368	25.80074	0.0993240	0.28070337	2.3101365	21	12 5.6	19.3
314074 2005 CP_{10}	17.4	X	227.23195	141.10222	48.97139	3.54939	0.0826464	0.28457732	2.2891234	21	12 30.6	20.2
314075 2005 CC_{11}	17.7	X	257.80802	132.16206	10.78217	2.57701	0.1357601	0.28316530	2.2967269	21	11 30.0	20.2
314076 2005 CQ_{17}	17.8	X	235.30734	309.63705	134.50071	4.75382	0.1994800	0.27319468	2.3522739	21	8 1.1	21.3
314077 2005 CF_{22}	17.3	X	271.17432	353.26516	125.67364	8.70903	0.1500974	0.28233992	2.3012008	21	11 18.4	19.8
314078 2005 CZ_{22}	16.7	X	266.31718	113.38080	4.58677	6.83361	0.1127885	0.28171511	2.3046021	21	11 9.3	19.3
314079 2005 CV_{25}	19.6	X	43.99672	357.39640	326.70428	23.87493	0.3109700	0.69949805	1.2568353	21	—	—
314080 2005 CQ_{28}	17.6	X	348.19234	29.49558	352.78006	4.82074	0.0886548	0.27980651	2.3150702	21	11 13.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314081 2005 CU_{32}	17.7	X	142.11656	183.52404	27.66522	2.26692	0.1706910	0.27352401	2.3503854	21	10 18.1	21.4
314082 Dryope	17.4	X	278.88423	139.37919	116.80870	16.14559	0.5746509	0.29435531	2.2381446	21	—	—
314083 2005 CR_{38}	17.1	X	277.96354	85.97086	69.25325	6.31476	0.1348279	0.28782883	2.2718511	21	—	—
314084 2005 CN_{44}	17.0	X	239.10549	222.42857	337.55348	6.88881	0.0527970	0.28844728	2.2686026	21	—	—
314085 2005 CO_{47}	17.9	X	277.66271	270.46525	145.38828	3.55801	0.1117125	0.27334945	2.3513859	21	8 30.2	20.5
314086 2005 CU_{50}	16.9	X	242.98260	343.96618	159.93649	5.57634	0.0969435	0.27988248	2.3146513	21	11 17.4	19.7
314087 2005 CV_{57}	17.3	X	285.14719	310.30696	130.98624	6.36814	0.0597910	0.27920704	2.3183828	21	10 29.9	19.9
314088 2005 CO_{60}	17.6	X	1.89827	97.73871	309.82202	5.13666	0.1522820	0.28865498	2.2675142	21	—	—
314089 2005 CE_{62}	17.6	X	222.21622	87.80921	75.04226	3.07551	0.1510697	0.27944060	2.3170908	21	11 7.1	20.6
314090 2005 CV_{65}	17.2	X	177.11218	89.23202	88.76125	2.96428	0.1456464	0.27311665	2.3527219	21	10 10.6	20.8
314091 2005 DS_{1}	17.3	X	165.46167	260.47484	290.35531	4.08601	0.1810308	0.27274184	2.3548769	21	10 11.2	21.2
314092 2005 EC_{14}	17.5	X	308.30876	127.11978	7.21486	8.05864	0.0884472	0.28847135	2.2684764	21	—	—
314093 2005 EF_{14}	16.8	X	265.99889	301.39115	160.18131	22.54765	0.2319201	0.27841870	2.3227570	21	10 1.0	19.7
314094 2005 EW_{15}	17.6	X	144.74176	79.60325	149.07920	2.30627	0.1526566	0.27415605	2.3467716	21	11 12.1	21.1
314095 2005 EE_{18}	17.5	X	245.27831	119.01928	5.44285	3.70473	0.1326679	0.27633392	2.3344249	21	10 16.0	20.3
314096 2005 EP_{22}	17.1	X	156.98089	229.81310	337.46879	5.83291	0.0628884	0.27475887	2.3433378	21	10 25.9	20.3
314097 2005 EX_{25}	17.8	X	227.62103	150.41475	344.27630	2.34602	0.1400562	0.27552607	2.3389858	21	10 6.4	20.9
314098 2005 EK_{35}	16.8	X	245.75394	329.66414	176.27137	6.85176	0.2226630	0.27881507	2.3205551	21	11 4.1	19.7
314099 2005 EC_{44}	17.4	X	90.09159	231.50161	350.63587	4.87903	0.0561442	0.26416480	2.4055779	21	8 26.1	20.3
314100 2005 EB_{49}	17.7	X	163.98856	266.85488	289.16333	1.16784	0.1553289	0.27309068	2.3528711	21	10 18.5	21.3
314101 2005 EZ_{52}	17.9	X	158.39549	201.89811	343.33756	1.13591	0.1216243	0.27065525	2.3669645	21	9 29.8	21.4
314102 2005 EM_{55}	17.7	X	251.47273	312.96292	170.42157	5.25554	0.1384369	0.27795712	2.3253278	21	10 24.6	20.4
314103 2005 EG_{74}	17.1	X	272.56820	40.21185	20.75254	3.22326	0.1837469	0.27263820	2.3554736	21	8 18.6	19.8
314104 2005 ER_{78}	17.4	X	160.39006	47.99611	134.60761	4.16805	0.1298128	0.27016484	2.3698280	21	9 30.2	21.0
314105 2005 EY_{78}	16.7	X	102.72530	67.82767	155.68730	6.77477	0.0873155	0.26601476	2.3944120	21	9 17.9	19.9
314106 2005 EO_{79}	14.6	X	9.65434	159.23616	52.16589	11.04428	0.1672816	0.12650505	3.9300445	21	4 24.1	19.3
314107 2005 EQ_{80}	17.6	X	287.27977	247.05337	171.15401	3.54302	0.1149603	0.27683000	2.3316353	21	9 18.0	20.0
314108 2005 EP_{84}	17.1	X	188.18610	47.28505	82.74144	4.43878	0.1063223	0.26945341	2.3739975	21	8 21.8	20.6
314109 2005 EU_{87}	17.2	X	238.72036	148.25675	358.59608	5.03875	0.1635478	0.27782247	2.3260791	21	11 1.5	20.3
314110 2005 ED_{90}	16.7	X	254.17150	321.37460	169.70412	23.20666	0.1876528	0.27972171	2.3155381	21	11 3.6	19.9
314111 2005 ES_{90}	17.3	X	208.99382	56.27123	168.96789	6.65379	0.0686985	0.28605838	2.2812152	21	—	—
314112 2005 EY_{90}	17.3	X	228.37596	152.60845	333.33123	6.33382	0.0688893	0.27323005	2.3520709	21	10 3.0	20.3
314113 2005 EN_{94}	17.3	X	184.52535	213.47717	336.36507	5.27606	0.1279624	0.27436082	2.3456038	21	10 30.7	20.9
314114 2005 EO_{94}	17.3	X	151.14641	68.33742	139.81276	2.96394	0.1423759	0.27115777	2.3640392	21	10 23.5	20.8
314115 2005 EO_{103}	17.4	X	258.44003	92.58357	357.58372	6.87900	0.1543575	0.27409046	2.3471460	21	9 13.5	20.0
314116 2005 EP_{103}	17.8	X	218.36813	337.81715	136.54501	1.97058	0.1328166	0.27049310	2.3679103	21	8 30.7	21.2
314117 2005 ET_{104}	17.5	X	332.40219	266.87185	140.38872	3.33593	0.1322031	0.28362500	2.2942445	21	11 28.5	19.4
314118 2005 EW_{119}	17.5	X	268.44566	241.05677	208.34947	1.36694	0.1699346	0.27738443	2.3285273	21	9 23.8	19.9
314119 2005 EU_{131}	17.2	X	216.76115	315.93488	167.42982	7.16463	0.0447263	0.27281715	2.3544435	21	9 20.6	20.2
314120 2005 EC_{138}	17.6	X	140.02073	138.67719	45.53209	2.10498	0.1255907	0.26414630	2.4056902	21	9 10.3	21.2
314121 2005 EC_{147}	18.0	X	107.39418	236.74943	352.30958	2.39114	0.1451490	0.26508174	2.4000273	21	10 4.7	21.4
314122 2005 ET_{151}	17.1	X	250.38035	21.84910	60.19481	3.25059	0.1859493	0.26911824	2.3759682	21	8 18.5	20.3
314123 2005 EZ_{151}	17.3	X	108.11079	181.09766	30.29145	7.12147	0.1095130	0.26297997	2.4127978	21	9 12.1	20.7
314124 2005 EJ_{152}	17.3	X	174.15625	89.63821	85.83329	2.38232	0.1187391	0.26964920	2.3728482	21	10 4.8	20.7
314125 2005 EL_{154}	17.3	X	180.58960	347.53601	174.78641	5.35656	0.1690046	0.26919999	2.3754872	21	9 21.2	21.1
314126 2005 EN_{155}	18.0	X	166.25467	147.14616	15.29225	2.66046	0.1287793	0.26627563	2.3928479	21	9 8.7	21.6
314127 2005 EM_{157}	17.5	X	147.96828	292.78048	256.81433	0.48514	0.1226363	0.26832063	2.3806744	21	9 24.5	20.9
314128 2005 EJ_{161}	17.4	X	146.35432	352.84805	179.99150	6.91092	0.1465693	0.26415735	2.4056231	21	8 31.6	21.2
314129 2005 ER_{164}	17.1	X	200.73583	302.42127	159.06497	4.66450	0.1794038	0.26535440	2.3983829	21	7 21.7	21.0
314130 2005 EM_{165}	17.7	X	177.70678	354.82284	144.42682	3.35416	0.1184022	0.26580829	2.3956518	21	8 20.4	21.2
314131 2005 EB_{179}	17.5	X	219.13701	189.48332	329.21381	3.69430	0.0265136	0.27647211	2.3336470	21	11 12.4	20.3
314132 2005 EK_{179}	17.9	X	187.53887	210.25971	345.80195	2.06650	0.1427638	0.27621464	2.3350970	21	11 11.4	21.5
314133 2005 EU_{180}	17.4	X	300.80459	270.26016	158.61395	7.36263	0.0837816	0.28070571	2.3101236	21	11 3.8	19.8
314134 2005 EC_{185}	17.6	X	125.73525	242.73461	331.53725	2.52005	0.1480418	0.26601987	2.3943814	21	10 4.1	21.1
314135 2005 EC_{187}	17.8	X	154.05971	359.54246	211.67502	1.50234	0.1541709	0.27057324	2.3674427	21	10 28.8	21.5
314136 2005 EA_{190}	17.5	X	230.49000	166.89628	307.94595	5.85803	0.0516755	0.27533908	2.3400446	21	9 22.6	20.7
314137 2005 EM_{190}	17.2	X	171.91461	265.67162	302.95346	4.85552	0.0393822	0.27964378	2.3159683	21	11 17.8	20.3
314138 2005 EW_{192}	17.2	X	255.67875	138.77505	310.88272	1.85490	0.1678039	0.27346643	2.3507153	21	9 5.6	20.0
314139 2005 EO_{197}	17.6	X	215.63850	134.30703	349.20710	4.34511	0.0951954	0.26860649	2.3789850	21	9 12.4	20.9
314140 2005 EP_{197}	17.7	X	169.86873	224.67160	333.43532	1.71390	0.1506929	0.27196519	2.3593580	21	10 26.6	21.3
314141 2005 ED_{198}	17.2	X	256.02958	112.49442	326.86508	1.94797	0.1587802	0.26886392	2.3774663	21	8 24.2	20.0
314142 2005 EE_{203}	17.2	X	42.14601	124.22355	144.03676	2.70057	0.1936304	0.25923716	2.4359659	21	9 13.4	19.7
314143 2005 ED_{208}	16.7	X	273.38297	251.49746	159.40589	8.06018	0.2194883	0.27132504	2.3630675	21	7 27.5	19.7
314144 2005 EQ_{210}	16.8	X	275.90393	118.85927	346.08392	7.88047	0.0498450	0.27680290	2.3317874	21	11 12.9	19.6
314145 2005 ET_{212}	17.8	X	201.27436	302.35033	169.82144	3.22567	0.0806030	0.26589894	2.3951073	21	8 11.2	21.2
314146 2005 EO_{213}	16.7	X	118.93019	203.33306	19.32492	24.19845	0.2529639	0.26434380	2.4044918	21	10 14.1	20.6
314147 2005 ED_{233}	17.1	X	201.50146	111.46780	84.37318	5.29402	0.1339821	0.27917304	2.3185710	21	11 28.4	20.3
314148 2005 EU_{244}	17.7	X	244.06490	246.51132	198.24500	2.21490	0.1563135	0.26999317	2.3708324	21	8 16.3	20.8
314149 2005 ET_{247}	17.0	X	282.33062	39.51215	29.22646	2.63947	0.1773979	0.27526844	2.3404450	21	9 15.6	19.3
314150 2005 EQ_{251}	17.4	X	235.65790	54.04885	61.40659	4.72736	0.1910179	0.27377937	2.3489237	21	9 16.5	20.7
314151 2005 EQ_{266}	17.7	X	199.44092	355.19181	186.43429	2.24774	0.1609231	0.27449541	2.3448370	21	11 4.6	21.0
314152 2005 EZ_{271}	16.9	X	205.11148	48.12844	100.98833	5.11032	0.0774309	0.27231597	2.3573314	21	10 9.5	20.1
314153 2005 EH_{273}	17.7	X	264.65484	236.98219	193.65752	1.83964	0.1827689	0.27216571	2.3581990	21	8 19.3	20.6
314154 2005 EL_{279}	16.9	X	269.62780	258.36397	171.94372	22.99030	0.2792837	0.27693406	2.3310511	21	8 8.5	20.3
314155 2005 EN_{281}	17.3	X	204.33514	100.10715	77.44679	5.79784	0.1053552	0.27669914	2.3323704	21	11 11.3	20.6
314156 2005 EG_{292}	16.7	X	235.42932	24.21282	78.84776	7.34578	0.0861137	0.26815488	2.3816553	21	9 14.5	19.9
314157 2005 EE_{324}	17.5	X	186.64895	100.82584	74.89867	6.97818	0.1743511	0.27256603	2.3558894	21	10 16.9	21.2
314158 2005 EL_{324}	16.9	X	172.80106	30.28379	212.22765	8.53593	0.2684832	0.27359958	2.3499526	21	12 17.8	21.0
314159 2005 FW_{1}	17.7	X	120.82887	90.59519	128.66011	2.34069	0.1956410	0.26513129	2.3997282	21	10 10.3	21.5
314160 2005 FV_{5}	17.5	X	192.15604	180.62147	341.22169	8.80829	0.1392177	0.27160685	2.3614327	21	9 30.8	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314161 2005 FY_7	16.6	X	155.32003	120.40772	87.74618	11.43065	0.1840229	0.27035597	2.3687110	21	10 30.4	20.6
314162 2005 FL_8	17.3	X	114.14926	153.22945	27.26942	2.05771	0.1219855	0.25829477	2.4418874	21	8 7.2	20.6
314163 Kittenberger	17.9	X	105.53280	183.97028	71.03875	2.46923	0.1669029	0.26909687	2.3760940	21	11 7.9	21.5
314164 2005 GD_{11}	17.2	X	212.83998	64.76519	62.51719	7.69771	0.1666163	0.26992442	2.3712350	21	9 11.7	20.9
314165 2005 GF_{25}	15.0	X	9.77267	189.93151	12.47005	10.58866	0.1539389	0.12417951	3.9789587	21	4 10.4	19.7
314166 2005 GP_{36}	17.6	X	211.80575	235.32927	193.16821	3.12002	0.0520979	0.25648970	2.4533307	21	6 27.0	20.9
314167 2005 GX_{45}	17.9	X	143.41562	347.40177	210.90075	2.05461	0.1330075	0.26789828	2.3831759	21	10 1.2	21.6
314168 2005 GK_{46}	17.8	X	248.64797	109.46815	350.34761	1.41158	0.0970793	0.27097869	2.3650806	21	9 21.7	20.8
314169 2005 GA_{61}	16.5	X	90.32511	133.31166	141.95330	10.16061	0.2499962	0.26601800	2.3943926	21	11 26.8	20.6
314170 2005 GW_{62}	18.1	X	239.00043	221.28963	262.17122	0.54562	0.1286565	0.27588828	2.3369382	21	10 7.3	21.0
314171 2005 GT_{73}	16.8	X	68.69995	139.96072	117.44146	7.36589	0.1919099	0.25996096	2.4314422	21	10 8.2	20.2
314172 2005 GZ_{73}	16.7	X	118.05225	48.17556	135.80365	13.05927	0.0629273	0.25865406	2.4396256	21	8 9.4	19.9
314173 2005 GM_{74}	17.0	X	86.07391	146.03545	109.47777	4.20134	0.1662048	0.26450359	2.4035233	21	10 20.9	20.5
314174 2005 GE_{98}	17.8	X	204.81010	28.42612	81.08389	2.42235	0.1351602	0.26365020	2.4087070	21	8 9.3	21.3
314175 2005 GZ_{99}	16.7	X	236.69981	61.38898	358.95747	22.00998	0.2892101	0.26935059	2.3746016	21	6 25.4	21.2
314176 2005 GW_{111}	14.4	X	4.46949	125.11243	90.19672	12.06004	0.0886645	0.12523898	3.9564866	21	4 24.5	19.7
314177 2005 GE_{119}	17.2	X	166.68318	114.84692	54.46984	3.29194	0.1614534	0.26695835	2.3887666	21	9 18.6	20.9
314178 2005 GV_{120}	17.7	X	96.66767	306.18985	316.87530	1.37251	0.1566520	0.26932041	2.3747790	21	11 7.7	21.2
314179 2005 GF_{126}	17.3	X	152.69270	143.48478	46.84065	1.98555	0.1337811	0.26732863	2.3865602	21	10 1.3	21.0
314180 2005 GS_{128}	16.4	X	166.05594	105.10533	138.45599	22.99083	0.2583501	0.27587721	2.3370007	21	12 18.1	20.8
314181 2005 GO_{136}	14.9	X	50.12852	19.72713	162.07954	8.03449	0.1886159	0.12568949	3.9470269	21	5 27.9	19.9
314182 2005 GY_{153}	17.4	X	15.62409	164.22609	118.31336	3.63866	0.2151413	0.25367633	2.4714363	21	8 16.7	19.2
314183 2005 GU_{167}	17.8	X	142.46866	151.84533	48.46963	1.99621	0.1296844	0.26448774	2.4036193	21	10 3.6	21.3
314184 2005 GD_{169}	17.8	X	110.21209	153.46666	38.22065	1.72425	0.0680786	0.25893953	2.4378322	21	8 11.4	21.0
314185 2005 GA_{181}	17.7	X	101.25252	169.40613	47.75001	5.02709	0.1016019	0.26209040	2.4182543	21	9 10.4	21.0
314186 2005 GU_{181}	18.0	X	179.82622	41.62341	123.07780	2.14371	0.1223764	0.26822641	2.3812319	21	9 26.2	21.4
314187 2005 HR_6	16.7	X	258.49867	261.41432	78.32810	23.68694	0.0514053	0.37008643	1.9213240	21	4 27.6	19.3
314188 2005 JL_{50}	17.9	X	131.78713	111.06060	92.08823	3.71073	0.1206053	0.26319725	2.4114697	21	9 27.2	21.4
314189 2005 JV_{70}	17.2	X	67.75125	144.49565	112.45026	4.40198	0.2067411	0.25951689	2.4342151	21	10 7.1	20.5
314190 2005 JO_{119}	16.7	X	177.12965	143.56061	192.18182	6.63657	0.0682701	0.22844466	2.6502207	21	1 18.4	20.6
314191 2005 JS_{119}	13.6	X	232.29639	275.55709	227.71490	28.18492	0.0422091	0.08515333	5.1168374	21	10 10.7	20.7
314192 2005 JP_{125}	15.9	X	193.70755	256.29591	95.04213	15.66285	0.1828097	0.23187221	2.6240388	21	3 7.5	20.5
314193 2005 JF_{126}	16.9	X	112.22766	94.58708	135.77181	6.52466	0.0953705	0.26534605	2.3984332	21	10 10.8	20.3
314194 2005 JU_{138}	17.3	X	64.79971	36.01643	226.84567	1.66674	0.1825617	0.25837873	2.4413584	21	10 4.9	20.4
314195 2005 JH_{143}	16.4	X	165.55158	356.53047	74.45383	16.05991	0.0902091	0.24437457	2.5337594	21	5 11.2	20.2
314196 2005 JZ_{153}	16.8	X	98.57715	96.71477	107.14585	7.30508	0.0609679	0.25646072	2.4535155	21	8 12.7	20.0
314197 2005 KX	18.0	X	102.24545	94.32504	146.26310	5.08450	0.1464681	0.26240269	2.4163353	21	10 16.6	21.5
314198 2005 KG_3	17.5	X	199.94358	329.74291	175.83828	2.20404	0.1436847	0.26713649	2.3877044	21	9 19.7	21.1
314199 2005 LB_4	16.8	X	39.02972	107.39137	86.72573	12.86772	0.0973225	0.24573245	2.5244167	21	5 8.1	19.7
314200 2005 LK_{14}	16.2	X	198.97927	129.42558	261.82698	13.97575	0.0920584	0.23471714	2.6027923	21	4 18.9	20.3
314201 2005 LM_{20}	16.3	X	192.97154	232.21319	92.60047	14.68232	0.1571358	0.22677033	2.6632497	21	1 29.6	20.7
314202 2005 LZ_{22}	16.3	X	347.72215	303.84103	288.25194	11.91412	0.1397022	0.23647548	2.5898740	21	3 17.9	19.4
314203 2005 LN_{27}	16.5	X	200.18217	234.67897	92.31845	14.56938	0.1850657	0.22911433	2.6450540	21	2 9.1	21.0
314204 2005 LD_{45}	16.7	X	188.30475	143.76050	206.72396	12.74461	0.1713489	0.22951460	2.6419779	21	2 19.6	21.2
314205 2005 MG_8	16.4	X	132.42397	60.23970	286.37909	7.56501	0.1993724	0.21230137	2.7829209	21	1 2.6	20.4
314206 2005 MG_{13}	16.4	X	191.00441	194.41802	119.21354	13.77927	0.1560281	0.21844965	2.7304558	21	1 14.0	20.9
314207 2005 MV_{21}	16.1	X	228.32799	182.55695	125.88213	10.55498	0.1142718	0.22419592	2.6835988	21	2 10.8	20.2
314208 2005 MX_{30}	17.3	X	83.29246	93.38269	119.93836	6.25458	0.0792170	0.25405142	2.4690031	21	8 6.9	20.3
314209 2005 MX_{40}	16.4	X	204.45906	209.97297	137.92583	15.06146	0.2670366	0.22978049	2.6399394	21	3 9.2	21.2
314210 2005 MT_{52}	16.6	X	277.69289	33.45829	252.95608	12.24228	0.1588734	0.22997192	2.6384742	21	2 21.9	20.9
314211 2005 MX_{52}	17.4	X	106.15793	140.98970	122.00682	25.00330	0.0940584	0.38168124	1.8822133	21	12 8.2	20.2
314212 2005 NJ_1	18.5	X	26.01973	82.52752	316.22066	6.46444	0.6505741	0.31646061	2.1326665	21	—	—
314213 2005 NW_4	16.8	X	211.76092	191.23565	121.73581	6.92768	0.0429699	0.22299503	2.6932248	21	1 30.5	20.6
314214 2005 NE_{16}	17.1	X	3.59596	275.20378	336.74096	2.52005	0.1893254	0.24180957	2.5516458	21	5 22.1	19.2
314215 2005 NP_{46}	16.8	X	3.90789	13.70002	237.80460	4.80743	0.2472922	0.24262958	2.5458935	21	5 20.4	18.3
314216 2005 NC_{61}	16.8	X	5.97822	42.77494	190.23616	4.48571	0.0896517	0.23810000	2.5780804	21	5 3.5	19.7
314217 2005 NO_{61}	16.4	X	310.75526	338.12231	304.72495	10.31918	0.0930962	0.23479609	2.6022088	21	4 8.1	19.9
314218 2005 NV_{87}	16.5	X	233.23534	19.09310	286.21836	5.31817	0.1627116	0.22562081	2.6722882	21	2 7.8	20.8
314219 2005 NA_{101}	16.9	X	302.44580	331.55287	295.00760	3.05514	0.1639667	0.23348560	2.6119367	21	2 28.6	20.4
314220 2005 NA_{102}	16.5	X	351.53474	318.55285	307.51903	13.39520	0.1369420	0.23990502	2.5651326	21	5 18.6	19.5
314221 2005 NE_{122}	16.0	X	291.23659	1.16149	294.70642	17.31121	0.1510908	0.23137628	2.6277870	21	3 17.5	20.1
314222 2005 NT_{123}	16.3	X	224.54782	349.62743	315.58304	10.92444	0.1689325	0.22247775	2.6973977	21	2 1.9	20.8
314223 2005 NT_{124}	16.3	X	130.62828	250.09123	137.85363	6.18817	0.1231711	0.21718757	2.7410234	21	2 9.3	20.1
314224 2005 OU	16.6	X	297.14287	323.11311	326.72088	14.74361	0.1252231	0.23409320	2.6074151	21	3 24.1	20.4
314225 2005 OR_5	16.3	X	254.82159	325.67793	319.56807	12.79878	0.1696621	0.22486514	2.6782716	21	2 4.6	20.7
314226 2005 OU_9	16.4	X	346.83012	147.31607	119.79485	6.16584	0.2398776	0.23965405	2.5669232	21	5 4.6	18.7
314227 2005 OJ_{19}	17.3	X	172.01361	215.85581	331.70569	19.27242	0.0716160	0.37891356	1.8913676	21	10 22.0	20.0
314228 2005 OY_{27}	15.6	X	197.00882	49.44737	295.36593	24.40611	0.0838965	0.21908791	2.7251502	21	2 13.9	20.1
314229 2005 OF_{28}	17.1	X	334.27583	272.08460	345.15346	2.30991	0.2131530	0.23432046	2.6057290	21	3 26.5	20.1
314230 2005 PV_1	16.4	X	271.71514	326.59072	338.49319	14.98491	0.1405615	0.23004134	2.6379433	21	3 15.5	20.5
314231 2005 PX_3	16.7	X	97.57395	297.38313	48.51786	8.40727	0.2920388	0.20553133	2.8437016	21	—	—
314232 2005 PO_{14}	16.3	X	342.14289	268.44168	125.09383	8.20633	0.3286567	0.18795109	3.0183723	21	11 12.2	18.5
314233 2005 PT_{14}	16.6	X	330.19512	94.21178	139.86170	13.81810	0.1319153	0.22882391	2.6472916	21	3 4.7	19.9
314234 2005 QJ_6	16.1	X	197.69745	11.14188	329.82496	9.05681	0.1835033	0.22054559	2.7131291	21	2 21.2	20.6
314235 2005 QP_{17}	16.1	X	222.37261	152.17648	155.81189	10.46804	0.2063792	0.22008668	2.7168993	21	2 1.9	20.8
314236 2005 QY_{21}	16.3	X	39.46123	212.36453	328.56148	9.20272	0.0976069	0.22905414	2.6455174	21	4 12.0	19.5
314237 2005 QP_{22}	16.3	X	198.00956	174.37990	159.62299	6.39222	0.0563701	0.21972774	2.7198573	21	2 9.8	20.3
314238 2005 QA_{28}	16.3	X	256.68035	137.59955	109.65537	5.06429	0.0509392	0.21238698	2.7821729	21	1 1.9	20.3
314239 2005 QP_{43}	16.4	X	340.51475	282.97547	340.80417	11.82133	0.0667830	0.23361791	2.6109505	21	4 30.8	19.8
314240 2005 QO_{46}	15.8	X	188.44405	132.89579	102.41575	3.14504	0.0133191	0.20010869	2.8948457	21	12 30.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314241 2005 QP_{53}	16.4	X	244.93042	313.45624	341.77325	11.21044	0.0944005	0.22245534	2.6975789	21	2 13.7	20.5
314242 2005 QR_{55}	16.8	X	79.07439	18.48666	6.87940	1.77376	0.0829028	0.20509358	2.8477465	21	—	—
314243 2005 QZ_{57}	16.6	X	40.35640	246.50789	174.06037	12.09695	0.1120973	0.20512533	2.8474527	21	—	—
314244 2005 QD_{65}	16.3	X	57.88288	26.47876	34.98222	6.48079	0.0535309	0.20729743	2.8275271	21	—	—
314245 2005 QK_{77}	16.1	X	267.09192	302.08925	335.89384	12.75011	0.0341482	0.22182026	2.7027253	21	2 21.3	19.8
314246 2005 QM_{77}	16.4	X	330.96544	258.87577	341.96809	12.42364	0.1021870	0.22913679	2.6448812	21	3 14.9	19.8
314247 2005 QL_{88}	16.6	X	121.87035	29.50511	336.17207	3.22287	0.1110854	0.21151889	2.7897799	21	1 2.2	20.4
314248 2005 QE_{93}	16.2	X	292.84902	84.71454	135.19672	5.52001	0.0985959	0.21674709	2.7447357	21	1 3.0	20.2
314249 2005 QV_{97}	16.3	X	52.48841	121.35517	350.06444	13.95529	0.0345071	0.21786542	2.7353349	21	2 4.9	20.0
314250 2005 QJ_{99}	16.8	X	166.56220	23.34418	308.56315	5.70791	0.0896528	0.21387406	2.7692615	21	1 8.8	20.8
314251 2005 QH_{100}	16.3	X	82.79202	108.63540	308.63942	7.88827	0.0348496	0.21275624	2.7789529	21	1 5.5	20.1
314252 2005 QB_{101}	16.1	X	244.38133	324.72114	324.19778	11.46669	0.0859995	0.22062198	2.7125028	21	2 5.1	20.0
314253 2005 QM_{101}	16.5	X	111.77418	105.82694	248.81704	4.24624	0.1224673	0.20711546	2.8291830	21	—	—
314254 2005 QW_{103}	16.8	X	164.26854	21.32699	307.90901	3.56257	0.0681268	0.21258679	2.7804293	21	—	—
314255 2005 QW_{117}	16.9	X	47.20536	352.70004	148.00918	3.16235	0.0356084	0.22232788	2.6986098	21	3 2.6	20.3
314256 2005 QA_{122}	16.8	X	23.23347	292.07335	181.27162	4.41439	0.0157743	0.21276517	2.7788751	21	—	—
314257 2005 QG_{124}	16.8	X	98.83979	72.60766	345.83538	6.52621	0.0379598	0.21548209	2.7554673	21	1 28.7	20.4
314258 2005 QD_{127}	16.7	X	262.44299	319.99082	341.21044	11.28803	0.0516211	0.22541537	2.6739116	21	3 12.5	20.5
314259 2005 QU_{136}	16.8	X	300.32512	262.51866	8.95765	9.28114	0.1239272	0.22675889	2.6633394	21	3 14.0	20.4
314260 2005 QA_{139}	16.2	X	193.60128	283.55811	4.99922	6.40370	0.0663864	0.21023460	2.8011300	21	—	—
314261 2005 QH_{145}	16.1	X	195.04055	180.44105	144.00924	10.13483	0.2899079	0.21746789	2.7386674	21	2 2.5	21.1
314262 2005 QM_{149}	16.0	X	299.44452	185.62470	119.85850	15.14159	0.2502806	0.23524564	2.5988926	21	4 12.2	19.9
314263 2005 QX_{153}	16.0	X	199.23343	191.68571	126.56516	10.27304	0.1422934	0.21674734	2.7447336	21	1 26.6	20.2
314264 2005 QT_{154}	16.4	X	146.16477	245.99818	137.82459	11.23893	0.1410094	0.21894225	2.7263587	21	2 24.1	20.5
314265 2005 QP_{166}	16.4	X	35.94728	335.15599	261.43957	15.18390	0.0972313	0.24228676	2.5482944	21	6 29.1	19.2
314266 2005 QE_{167}	16.2	X	262.65830	325.86196	313.18744	12.97521	0.1502385	0.22393080	2.6857165	21	2 5.2	20.2
314267 2005 QN_{177}	16.5	X	80.67559	45.57011	325.89810	5.24632	0.0837585	0.20520507	2.8467150	21	—	—
314268 2005 QY_{181}	16.6	X	81.65614	71.53486	352.44974	8.43823	0.0174114	0.21202739	2.7853177	21	1 11.9	20.5
314269 2005 RC_{2}	15.5	X	250.77027	87.91171	334.66513	29.34411	0.2858346	0.17257214	3.1951329	21	7 19.3	21.1
314270 2005 RQ_{16}	16.4	X	155.55326	49.95306	272.94627	13.76134	0.1932537	0.21054384	2.7983864	21	—	—
314271 2005 RF_{26}	16.8	X	184.18363	132.44513	189.44812	1.37996	0.0604674	0.21459641	2.7630436	21	1 12.5	20.8
314272 2005 RU_{30}	16.3	X	105.21755	265.58714	152.24227	9.43088	0.1213437	0.21590065	2.7519049	21	2 15.2	19.7
314273 2005 RT_{39}	16.9	X	313.15388	337.34555	24.01791	21.03742	0.0697327	0.36602521	1.9355098	21	9 5.1	18.9
314274 2005 RM_{51}	16.6	X	153.64503	12.56989	12.52367	6.22955	0.0335907	0.21836331	2.7311755	21	2 23.5	20.5
314275 2005 SF_{17}	16.5	X	231.32371	291.17432	10.77201	5.96116	0.0484070	0.21677629	2.7444892	21	2 10.7	20.5
314276 2005 SP_{22}	16.1	X	184.93497	193.88360	108.16471	4.09553	0.0821275	0.20966361	2.8062133	21	—	—
314277 2005 SF_{23}	16.0	X	88.65748	184.06838	179.24397	5.07408	0.1094303	0.20340578	2.8634781	21	—	—
314278 2005 SC_{30}	17.0	X	6.60492	295.88601	5.25325	20.14255	0.0701421	0.36658785	1.9335289	21	9 1.9	18.7
314279 2005 SJ_{32}	16.5	X	13.88376	232.34844	169.69446	5.57168	0.1439223	0.19278528	2.9677009	21	—	—
314280 2005 SN_{32}	17.1	X	298.30865	259.85403	173.70974	8.09269	0.2780445	0.18110018	3.0940225	21	9 19.6	20.7
314281 2005 SP_{33}	16.7	X	326.80095	254.14843	134.55043	5.09518	0.2325138	0.18197231	3.0841288	21	9 22.9	19.8
314282 2005 SN_{38}	16.9	X	54.88769	188.41544	202.05434	1.49669	0.0697431	0.19995371	2.8963413	21	—	—
314283 2005 SJ_{42}	16.7	X	250.17163	284.11085	327.57828	3.54761	0.0171253	0.20939238	2.8086360	21	1 3.4	20.7
314284 2005 SH_{47}	16.7	X	17.99115	158.06247	334.08887	3.64055	0.0158662	0.21051865	2.7986097	21	1 14.1	20.5
314285 2005 SY_{55}	15.9	X	313.20931	232.05259	27.20172	9.08025	0.1801012	0.22398066	2.6853179	21	3 8.9	19.4
314286 2005 SS_{62}	16.3	X	346.77604	2.30985	33.35504	3.18508	0.1258150	0.18760529	3.0220803	21	11 12.4	19.6
314287 2005 SG_{63}	16.2	X	37.42758	213.81326	201.97351	5.75953	0.0626959	0.20174008	2.8792183	21	—	—
314288 2005 SJ_{67}	16.8	X	58.74766	42.16786	191.76150	4.52095	0.0735564	0.23765036	2.5813312	21	7 28.3	20.0
314289 2005 SN_{69}	16.3	X	51.00161	29.93364	18.17148	10.32929	0.1138448	0.20101652	2.8861233	21	—	—
314290 2005 SZ_{71}	15.7	X	142.02469	23.64104	323.73559	11.89788	0.1677196	0.21035862	2.8000289	21	1 12.0	19.9
314291 2005 SA_{75}	16.8	X	102.14179	341.47008	10.02288	1.88010	0.0772670	0.20296898	2.8675848	21	—	—
314292 2005 SR_{79}	17.1	X	50.89342	253.89085	157.09000	2.41483	0.0595388	0.20323070	2.8651224	21	—	—
314293 2005 SU_{81}	16.4	X	52.68225	286.28322	170.66448	4.51814	0.0291392	0.21187299	2.7866707	21	1 13.8	20.2
314294 2005 SE_{82}	17.5	X	60.43248	51.86195	322.06763	0.96814	0.0851353	0.19852907	2.9101808	21	—	—
314295 2005 SH_{94}	16.5	X	92.78640	111.08243	332.13728	5.22100	0.0233314	0.22032665	2.7149262	21	2 16.9	19.9
314296 2005 SQ_{96}	16.2	X	350.04839	7.96347	337.71714	4.10544	0.1547389	0.18309385	3.0715214	21	9 11.8	19.7
314297 2005 SH_{97}	16.3	X	32.16948	67.53229	327.41732	16.26788	0.1451614	0.19621247	2.9330422	21	—	—
314298 2005 SZ_{99}	16.7	X	320.27455	310.50414	304.27002	3.08128	0.1559062	0.22405898	2.6846921	21	3 11.4	20.1
314299 2005 ST_{100}	16.4	X	301.46489	123.57007	340.08876	5.64476	0.0919744	0.19044267	2.9919882	21	11 28.4	20.3
314300 2005 SN_{101}	16.7	X	47.79692	147.85504	232.82912	5.21371	0.1077296	0.19595316	2.9356292	21	—	—
314301 2005 SJ_{109}	16.9	X	151.30353	322.07733	348.70042	1.27075	0.1113616	0.20402162	2.8577129	21	—	—
314302 2005 SY_{114}	16.7	X	210.14441	121.54369	206.89435	4.09827	0.1223344	0.21762239	2.7373710	21	2 15.9	21.0
314303 2005 SA_{133}	16.7	X	249.05882	256.15502	5.89649	1.82876	0.0317219	0.20963863	2.8064362	21	1 13.6	20.7
314304 2005 SK_{134}	17.1	X	81.51415	260.41999	359.50469	18.53607	0.0527301	0.37064106	1.9194068	21	10 12.8	19.3
314305 2005 SU_{136}	16.3	X	355.89847	142.47792	10.57905	10.67234	0.1499513	0.21062109	2.7977022	21	—	—
314306 2005 SV_{138}	17.3	X	79.53864	198.86171	169.00269	3.09425	0.0809911	0.20084517	2.8877646	21	—	—
314307 2005 SO_{141}	15.9	X	300.04165	74.03609	25.25945	11.27358	0.1944392	0.18870440	3.0103341	21	11 7.8	19.4
314308 2005 SP_{143}	16.4	X	330.62550	164.60885	31.26459	10.04486	0.1058722	0.21470815	2.7620850	21	1 22.2	20.2
314309 2005 SG_{160}	16.8	X	255.04015	282.14712	337.52320	2.87289	0.0479293	0.21371568	2.7706295	21	1 15.7	20.9
314310 2005 SZ_{167}	15.8	X	232.53859	346.14685	314.70258	11.94256	0.1383069	0.22088842	2.7103211	21	2 4.5	20.2
314311 2005 SK_{172}	17.0	X	108.70818	43.89399	342.01244	5.75528	0.0682982	0.20876788	2.8142343	21	1 5.7	20.9
314312 2005 SZ_{174}	16.1	X	273.40976	304.64752	343.33626	8.48577	0.1058777	0.22235098	2.6984229	21	3 4.3	20.0
314313 2005 SG_{188}	16.8	X	307.74171	260.20527	150.46236	0.81207	0.1677601	0.18163564	3.0879387	21	9 22.0	20.5
314314 2005 SX_{189}	16.8	X	342.01540	299.89105	138.07956	0.92136	0.1147732	0.19251863	2.9704406	21	12 30.4	20.4
314315 2005 SJ_{190}	16.1	X	308.49489	260.55982	183.08286	6.75236	0.2084188	0.18641505	3.0349304	21	11 3.8	19.3
314316 2005 SY_{193}	15.9	X	109.44281	110.30067	217.38742	6.73721	0.1709447	0.19915738	2.9040569	21	—	—
314317 2005 SA_{199}	16.9	X	181.62683	322.20171	330.99626	1.15124	0.0482837	0.20651496	2.8346647	21	—	—
314318 2005 SY_{204}	17.1	X	172.86295	150.40498	19.47035	20.57423	0.0412712	0.37016035	1.9210682	21	10 10.7	19.0
314319 2005 SD_{218}	17.2	X	288.69466	159.17713	195.34682	22.42586	0.0649561	0.35850991	1.9624651	21	6 21.3	19.8
314320 2005 SU_{232}	16.5	X	351.44056	339.84775	33.77352	2.07869	0.2281317	0.18385539	3.0630339	21	10 27.3	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314321 2005 SE_{241}	16.9	X	293.36640	282.65598	318.45894	3.53279	0.0145652	0.21440796	2.7646624	21	2 10.6	20.7
314322 2005 SN_{260}	16.3	X	192.00044	187.33239	163.70641	4.83733	0.1212238	0.22179931	2.7028955	21	2 26.5	20.4
314323 2005 SP_{271}	16.2	X	337.34808	16.22945	20.78419	3.64679	0.1329031	0.18486941	3.0518230	21	10 28.4	19.7
314324 2005 SA_{281}	15.9	X	333.76602	77.36143	18.65426	12.40317	0.1005356	0.19323923	2.9630514	21	—	—
314325 2005 SN_{281}	15.1	X	246.82560	348.67816	116.86006	12.12439	0.0693057	0.16671087	3.2695911	21	9 25.7	20.0
314326 2005 SF_{285}	16.2	X	347.70268	296.54353	103.38797	11.43225	0.1258297	0.18684800	3.0302404	21	11 22.8	19.9
314327 2005 SQ_{293}	16.1	X	271.80215	157.83116	141.33879	12.82998	0.1322304	0.22483109	2.6785420	21	3 15.9	20.1
314328 2005 TA_{4}	15.9	X	212.86914	246.15768	57.13904	13.36166	0.2794643	0.21727771	2.7402652	21	1 24.4	21.1
314329 2005 TY_{15}	16.9	X	249.21843	306.60225	328.20324	2.63061	0.1619436	0.21777220	2.7361155	21	1 19.6	21.2
314330 2005 TG_{16}	16.1	X	255.55289	42.32479	194.42087	6.02239	0.0782107	0.21033384	2.8002487	21	—	—
314331 2005 TG_{19}	15.8	X	118.81902	341.50395	200.16739	6.48168	0.1949381	0.17410613	3.1763377	21	8 14.3	20.9
314332 2005 TZ_{22}	16.8	X	233.04866	254.34891	21.35641	8.54851	0.1302128	0.21338699	2.7734739	21	1 9.1	21.3
314333 2005 TP_{23}	16.8	X	257.79886	45.42006	197.74236	6.00620	0.0356720	0.21170976	2.7881029	21	—	—
314334 2005 TX_{23}	16.4	X	176.19461	122.60880	202.24740	3.82688	0.0694720	0.21191809	2.7862753	21	1 8.2	20.5
314335 2005 TL_{28}	16.2	X	236.42930	224.20740	210.12035	1.75795	0.3328081	0.16422583	3.3024917	21	7 8.1	21.9
314336 2005 TR_{38}	17.1	X	129.09400	191.05322	177.29512	4.44684	0.0795459	0.21008764	2.8024361	21	1 9.2	21.0
314337 2005 TT_{49}	16.1	X	312.43636	316.13686	329.26203	11.99865	0.2456192	0.23253179	2.6190744	21	3 22.2	19.7
314338 2005 TL_{51}	15.7	X	261.02656	217.91967	210.71324	24.87424	0.1562658	0.17331628	3.1859807	21	8 4.3	20.9
314339 2005 TB_{57}	16.6	X	255.39025	24.28601	216.57017	2.97694	0.0452381	0.20935368	2.8089822	21	—	—
314340 2005 TN_{70}	16.8	X	39.12715	35.76468	23.40031	1.96091	0.0710572	0.19969879	2.8988056	21	—	—
314341 2005 TS_{71}	17.2	X	220.68755	333.40490	13.00051	18.14300	0.1754301	0.34975075	1.9950951	21	3 11.9	20.2
314342 2005 TT_{74}	16.0	X	82.82123	108.12978	250.57571	8.29048	0.0743678	0.19944850	2.9012303	21	—	—
314343 2005 TU_{85}	16.0	X	53.05348	213.03781	4.12386	10.79411	0.0406582	0.23195853	2.6233877	21	6 22.6	19.6
314344 2005 TQ_{86}	16.6	X	13.76002	212.85509	197.30112	7.22366	0.0633405	0.19605434	2.9346191	21	—	—
314345 2005 TQ_{89}	16.6	X	339.20080	350.42686	167.63332	6.95659	0.1048550	0.20907336	2.8114925	21	—	—
314346 2005 TY_{112}	17.0	X	72.00639	84.74956	270.81399	1.64388	0.0643140	0.19717181	2.9235207	21	—	—
314347 2005 TD_{115}	16.5	X	309.07443	127.45299	358.97727	5.55624	0.0405082	0.19786198	2.9167183	21	—	—
314348 2005 TK_{115}	16.9	X	122.64314	18.16569	354.25756	3.60175	0.1136500	0.20881768	2.8137869	21	1 12.7	20.8
314349 2005 TJ_{117}	16.7	X	261.41909	314.04201	247.73596	1.21850	0.0254164	0.20249854	2.8720243	21	—	—
314350 2005 TE_{118}	17.0	X	187.35535	289.98985	346.73877	1.47998	0.0273009	0.20327774	2.8646804	21	—	—
314351 2005 TB_{130}	17.0	X	76.31565	5.48906	37.10029	2.57804	0.0558758	0.20320674	2.8653475	21	—	—
314352 2005 TA_{131}	16.5	X	329.13015	24.72381	138.75545	2.78707	0.0142288	0.20542652	2.8446688	21	—	—
314353 2005 TH_{134}	16.0	X	275.71486	93.28357	307.20786	10.47819	0.1806609	0.17428858	3.1741207	21	7 21.7	20.5
314354 2005 TY_{136}	17.1	X	317.41718	16.24056	66.68484	2.67467	0.2125293	0.18931251	3.0038841	21	11 19.8	20.1
314355 2005 TA_{157}	16.9	X	222.43619	303.00022	331.75398	2.95092	0.0811934	0.20974471	2.8054898	21	—	—
314356 2005 TC_{158}	16.1	X	354.26615	132.28989	8.24563	9.23743	0.0747278	0.20664549	2.8334709	21	—	—
314357 2005 TA_{161}	16.4	X	48.26344	159.21717	239.60700	4.65716	0.0935684	0.19820327	2.9133691	21	—	—
314358 2005 TU_{162}	15.4	X	180.59724	157.27878	17.62278	10.72051	0.0494553	0.18184694	3.0855462	21	10 4.6	19.8
314359 2005 TA_{194}	16.5	X	351.15428	352.33006	55.08503	5.51453	0.1263439	0.18903128	3.0068627	21	12 5.3	20.0
314360 2005 TJ_{195}	16.8	X	11.70170	293.89381	158.19834	2.40737	0.0816676	0.20111757	2.8851565	21	—	—
314361 2005 TK_{197}	15.3	X	330.51006	333.74415	69.10563	12.31231	0.0902194	0.18423630	3.0588106	21	10 29.9	19.2
314362 2005 UN_{4}	15.4	X	260.03895	263.65520	167.10896	25.39536	0.2504011	0.17371319	3.1811259	21	7 30.4	20.6
314363 2005 UQ_{5}	17.0	X	297.46892	289.44705	74.13512	22.74440	0.1028000	0.36130370	1.9523354	21	7 18.7	19.0
314364 2005 UA_{39}	16.6	X	128.97421	160.49427	136.33648	1.49226	0.0915990	0.19228079	2.9728896	21	—	—
314365 2005 UB_{39}	16.3	X	62.02818	312.27376	60.98519	5.26358	0.1275105	0.19386565	2.9566652	21	—	—
314366 2005 UM_{39}	16.7	X	134.56399	126.11355	209.51544	1.75523	0.0596406	0.19947283	2.9009944	21	—	—
314367 2005 UO_{39}	16.6	X	358.14461	166.13890	198.34924	0.88577	0.1536116	0.18147127	3.0898030	21	10 22.8	20.2
314368 2005 UR_{39}	16.5	X	339.23275	341.53386	62.21979	2.69589	0.0939600	0.18342497	3.0678238	21	11 9.7	20.3
314369 2005 UH_{40}	16.2	X	290.06583	238.40332	171.72899	1.07077	0.1734965	0.17464216	3.1698350	21	8 22.6	20.4
314370 2005 UZ_{40}	16.3	X	296.02290	303.80156	81.52505	2.79848	0.1063786	0.17211568	3.2007795	21	8 9.9	20.5
314371 2005 UT_{42}	16.4	X	244.79081	157.33021	200.20534	6.23261	0.0524858	0.22480635	2.6787386	21	5 5.4	20.2
314372 2005 UO_{46}	16.1	X	243.77831	289.44538	222.55551	25.53162	0.1864783	0.18231805	3.0802285	21	10 29.9	20.7
314373 2005 UP_{46}	15.5	X	19.53355	309.13087	23.85934	11.64901	0.1133714	0.18487550	3.0517560	21	10 13.9	19.1
314374 2005 UJ_{49}	16.4	X	257.46575	85.60896	13.03133	13.11313	0.3022113	0.17543300	3.1603016	21	8 31.5	21.4
314375 2005 UJ_{66}	15.6	X	268.11554	270.50983	222.09258	14.49966	0.2635139	0.18306531	3.0718406	21	10 23.2	19.7
314376 2005 UP_{70}	15.5	X	31.56546	111.78570	248.54377	8.43836	0.0886161	0.18960287	3.0008166	21	12 1.9	19.6
314377 2005 UT_{70}	15.7	X	263.82532	283.59320	4.01139	8.69596	0.0832008	0.21763662	2.7372517	21	2 26.6	19.6
314378 2005 UA_{77}	15.7	X	346.75853	254.71939	124.44421	13.31243	0.1960578	0.18339771	3.0681278	21	10 29.7	19.2
314379 2005 UO_{78}	15.6	X	263.64300	203.65484	260.23511	7.27089	0.0487739	0.18078912	3.0975704	21	10 10.6	20.1
314380 2005 UX_{84}	16.6	X	62.05428	296.63399	69.51630	2.99007	0.1036093	0.19458829	2.9493405	21	—	—
314381 2005 UA_{91}	15.9	X	271.03069	175.84333	17.14006	11.09541	0.0975144	0.19816236	2.9137700	21	—	—
314382 2005 UD_{95}	16.4	X	195.78668	301.48648	284.33787	4.61923	0.0284719	0.19207342	2.9750289	21	12 24.3	20.5
314383 2005 UZ_{99}	16.7	X	287.89199	339.25936	102.69758	4.58074	0.1538784	0.18045577	3.1013840	21	10 5.8	20.7
314384 2005 UF_{101}	16.8	X	270.57014	346.73374	119.55222	4.25630	0.1639116	0.18144550	3.0900956	21	10 10.9	21.1
314385 2005 UA_{103}	16.3	X	264.02790	68.67913	53.91603	16.72435	0.1883944	0.18178689	3.0862256	21	10 22.4	20.7
314386 2005 US_{110}	16.6	X	294.71931	159.27554	278.34079	2.65241	0.2571695	0.17858923	3.1229561	21	9 20.5	20.5
314387 2005 UL_{113}	16.5	X	43.10908	97.75244	239.55826	7.68961	0.2700208	0.18757110	3.0224475	21	12 14.1	20.6
314388 2005 UW_{114}	15.0	X	302.61643	287.86802	60.86786	21.59544	0.3124170	0.17431042	3.1738555	21	5 29.2	19.2
314389 2005 UG_{135}	16.7	X	148.65481	232.18791	95.88138	3.24667	0.0673488	0.20252092	2.8718128	21	—	—
314390 2005 UT_{138}	16.3	X	225.01839	252.15671	213.01573	5.40078	0.0535256	0.17301807	3.1896405	21	8 26.1	21.0
314391 2005 UR_{159}	16.1	X	344.40745	196.84361	181.70073	13.18766	0.1934645	0.18353171	3.0666342	21	10 19.4	19.3
314392 2005 UQ_{161}	16.2	X	42.22027	138.84921	213.44402	11.58625	0.1453661	0.18923414	3.0047134	21	12 13.8	20.4
314393 2005 UJ_{166}	16.6	X	46.73132	348.68257	26.03402	2.74706	0.0705213	0.19328307	2.9626033	21	—	—
314394 2005 UT_{181}	16.6	X	292.78636	51.52005	87.25056	3.11554	0.0776896	0.19058780	2.9904691	21	—	—
314395 2005 UW_{182}	16.5	X	313.00195	82.71380	65.51535	2.98895	0.0557526	0.19552637	2.9398995	21	—	—
314396 2005 UR_{190}	16.6	X	313.50777	195.58686	246.48755	0.96259	0.1574597	0.18515312	3.0487047	21	11 14.2	19.9
314397 2005 UJ_{199}	17.0	X	359.38580	300.22006	71.59451	1.98223	0.1884794	0.18413293	3.0599552	21	11 7.6	20.3
314398 2005 UG_{200}	16.6	X	254.27442	317.85342	215.20053	4.82342	0.0579149	0.19134805	2.9825428	21	12 25.8	20.7
314399 2005 UT_{205}	16.7	X	334.65378	183.37521	218.44807	5.75394	0.0844472	0.18293677	3.0732794	21	10 30.8	20.6
314400 2005 UD_{208}	16.8	X	157.26583	227.52984	65.24202	3.00423	0.0378097	0.19891313	2.9064336	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314401 2005 US_{218}	16.8	X	95.33437	43.20976	328.29246	4.36052	0.0610722	0.20091749	2.8870716	21	—	—
314402 2005 UH_{225}	16.5	X	249.09493	298.81497	330.44809	3.14620	0.0614074	0.21057875	2.7980771	21	1 20.3	20.5
314403 2005 UY_{237}	16.2	X	341.21087	271.88522	179.26888	6.00571	0.1122922	0.19120532	2.9840269	21	—	—
314404 2005 UA_{251}	16.0	X	279.01542	60.78727	0.96945	15.93582	0.2352207	0.17590601	3.1546337	21	8 19.5	20.5
314405 2005 UN_{252}	16.6	X	33.03899	114.49115	249.77827	8.10455	0.1223208	0.18833535	3.0142654	21	12 13.1	20.4
314406 2005 UR_{253}	15.4	X	355.27732	335.57589	49.54685	10.76846	0.0959454	0.18309462	3.0715127	21	11 10.5	19.3
314407 2005 UV_{275}	16.8	X	33.39025	146.83912	227.13015	1.96195	0.0340792	0.19001239	2.9965033	21	12 13.8	20.8
314408 2005 UZ_{282}	16.9	X	291.53721	33.46583	94.87982	3.21431	0.1127570	0.19085963	2.9876290	21	12 14.2	20.5
314409 2005 UE_{284}	16.5	X	317.30247	259.59743	201.18035	9.59428	0.0726210	0.19098504	2.9863210	21	12 20.4	20.5
314410 2005 UT_{312}	15.4	X	191.03409	9.21357	253.84607	8.75112	0.0329188	0.19716718	2.9235664	21	—	—
314411 2005 UY_{312}	15.7	X	318.53487	185.75611	251.31859	8.08850	0.1148532	0.18569877	3.0427296	21	11 18.9	19.4
314412 2005 UZ_{315}	16.8	X	265.69141	75.49457	111.71061	2.79381	0.0865018	0.19575317	2.9376283	21	—	—
314413 2005 UD_{323}	17.0	X	122.08124	298.24434	39.41785	5.97260	0.0587512	0.20147265	2.8817656	21	—	—
314414 2005 UR_{327}	16.0	X	353.13823	27.60715	5.85595	3.78225	0.1578124	0.18390465	3.0624869	21	11 20.9	19.6
314415 2005 UL_{347}	16.6	X	126.20476	108.25013	218.82608	6.30913	0.0622058	0.20297625	2.8675163	21	—	—
314416 2005 UF_{349}	16.0	X	10.12916	77.92703	331.60975	14.34566	0.2074652	0.19112118	2.9849026	21	—	—
314417 2005 UL_{350}	15.9	X	312.09287	292.50117	114.12014	6.57049	0.1500836	0.18147182	3.0897968	21	9 29.3	19.6
314418 2005 UD_{370}	16.1	X	344.33946	193.88656	209.42225	7.93471	0.0718925	0.18484802	3.0520585	21	11 17.2	20.0
314419 2005 UN_{372}	15.3	X	46.90504	92.36185	251.69893	10.06052	0.1053745	0.18608417	3.0385270	21	12 3.4	19.3
314420 2005 UG_{374}	16.6	X	326.29951	139.07607	335.21838	1.17178	0.0912073	0.19196149	2.9761853	21	—	—
314421 2005 UL_{398}	15.6	X	10.36695	309.04251	60.61779	11.25148	0.1193619	0.18812130	3.0165514	21	11 17.4	19.3
314422 2005 UO_{414}	16.4	X	123.94867	233.42567	75.94629	3.19070	0.1084984	0.19604998	2.9346626	21	—	—
314423 2005 UG_{417}	16.3	X	257.98132	28.94961	63.61263	6.78619	0.0870457	0.17787903	3.1312630	21	9 20.3	20.8
314424 2005 UQ_{425}	17.2	X	87.70665	20.38880	310.14932	1.54624	0.1022983	0.19246475	2.9709950	21	—	—
314425 2005 US_{429}	16.2	X	300.72015	201.49260	244.22046	8.36072	0.0917473	0.18338356	3.0682856	21	11 3.4	20.1
314426 2005 UC_{441}	16.8	X	100.38290	53.50965	311.93677	5.72737	0.1065806	0.20270319	2.8700909	21	—	—
314427 2005 UA_{446}	16.3	X	355.23111	226.08204	137.17349	1.51552	0.1824902	0.18075404	3.0979712	21	10 18.0	19.6
314428 2005 UO_{447}	16.7	X	115.39420	303.46942	35.27841	2.39373	0.0725681	0.20310048	2.8663469	21	—	—
314429 2005 UW_{449}	15.7	X	88.56391	62.70729	256.98094	10.28979	0.2553290	0.19149021	2.9810665	21	—	—
314430 2005 UE_{477}	16.5	X	325.67935	96.85818	317.09841	3.96966	0.1449546	0.18199001	3.0839289	21	10 27.9	20.1
314431 2005 UM_{480}	17.3	X	40.21815	197.49457	83.90365	22.97508	0.0610424	0.36607418	1.9353372	21	10 7.2	19.9
314432 2005 UR_{480}	17.3	X	200.64606	276.35926	168.85662	22.52415	0.1226773	0.35683851	1.9685883	21	7 2.7	20.5
314433 2005 UO_{495}	15.9	X	225.06891	324.03022	356.20385	11.77988	0.1136883	0.21734156	2.7397285	21	2 24.6	20.2
314434 2005 UW_{511}	16.1	X	105.83668	244.89391	52.86061	9.21167	0.0588688	0.18656902	3.0332604	21	12 8.9	20.6
314435 2005 UU_{513}	15.7	X	322.72855	76.93270	44.15018	10.74996	0.0714997	0.19314112	2.9640547	21	—	—
314436 2005 UX_{515}	16.4	X	68.72418	212.74928	149.24283	12.34922	0.0217046	0.19370097	2.9583406	21	—	—
314437 2005 UZ_{521}	16.9	X	75.91557	251.03277	144.39636	6.57159	0.1235950	0.20258713	2.8711870	21	—	—
314438 2005 UJ_{526}	16.3	X	47.08228	53.86402	294.63165	4.52297	0.1227061	0.18686666	3.0300387	21	12 11.4	20.6
314439 2005 UH_{527}	16.5	X	283.68233	343.31850	81.49945	2.51297	0.1264372	0.17518550	3.1632773	21	9 10.2	20.7
314440 2005 UT_{530}	16.4	X	4.08884	205.01799	196.63096	9.98005	0.1037022	0.18875668	3.0097783	21	12 16.6	20.3
314441 2005 VO_{15}	15.8	X	323.25083	216.84467	199.70543	18.65462	0.2389217	0.18228305	3.0806227	21	10 23.1	18.7
314442 2005 VE_{16}	15.8	X	304.52604	123.52221	262.39916	8.41158	0.3182642	0.17567438	3.1574059	21	7 18.7	19.7
314443 2005 VP_{25}	16.0	X	304.67779	45.15546	32.58612	17.42717	0.2654567	0.18210225	3.0826615	21	10 12.5	19.4
314444 2005 VN_{50}	15.6	X	18.12071	73.36304	263.24960	9.25447	0.2347349	0.18661756	3.0327344	21	10 29.8	19.1
314445 2005 VN_{59}	16.7	X	301.45254	313.06331	158.99618	3.32344	0.1529701	0.18836845	3.0139123	21	12 4.6	20.2
314446 2005 VF_{65}	16.9	X	324.87709	256.30894	141.88148	2.58304	0.1669816	0.18172745	3.0868986	21	10 6.9	20.2
314447 2005 VN_{79}	15.5	X	24.53752	83.19176	292.57733	11.63442	0.1957591	0.18844064	3.0131425	21	12 26.9	19.3
314448 2005 VK_{87}	16.7	X	48.82465	255.45191	85.64070	2.94986	0.2098136	0.18890689	3.0081826	21	12 17.3	20.9
314449 2005 VW_{91}	15.9	X	45.05379	145.59413	224.89777	9.44408	0.1052588	0.19120975	2.9839809	21	—	—
314450 2005 VG_{103}	16.2	X	301.82998	334.88966	67.76133	11.70446	0.2275255	0.17644060	3.1482583	21	8 28.7	20.2
314451 2005 VQ_{113}	16.5	X	263.66122	186.94308	293.70031	3.62220	0.1340150	0.18089124	3.0964045	21	10 20.5	20.9
314452 2005 VR_{113}	17.1	X	244.02921	152.62639	344.02042	2.76721	0.1520755	0.17980747	3.1088342	21	10 15.1	21.6
314453 2005 VX_{114}	15.9	X	199.69266	278.10223	264.99356	8.52127	0.0651735	0.18300843	3.0724770	21	10 31.6	20.6
314454 2005 VR_{117}	16.6	X	315.91627	357.46540	53.67053	2.78233	0.1626743	0.18011935	3.1052445	21	10 8.1	20.1
314455 2005 VZ_{133}	16.5	X	282.98218	110.48962	148.97206	13.99280	0.1782461	0.21429220	2.7656580	21	1 30.9	20.8
314456 2005 VD_{134}	16.4	X	114.60966	182.84290	152.93274	12.60605	0.0460751	0.19693368	2.9258769	21	—	—
314457 2005 WL	16.4	X	94.52371	293.33301	62.88566	3.66607	0.0395533	0.19491208	2.9460733	21	—	—
314458 2005 WM_{1}	15.7	X	274.80840	54.38752	0.82826	26.67632	0.2673443	0.17222529	3.1994213	21	8 8.1	20.8
314459 2005 WQ_{6}	15.8	X	319.60223	147.17078	243.64709	9.39533	0.2185305	0.17783157	3.1318201	21	9 4.4	19.4
314460 2005 WL_{8}	16.1	X	94.04803	255.87803	65.41192	8.83031	0.0654794	0.18962938	3.0005369	21	12 25.7	20.5
314461 2005 WC_{9}	16.7	X	309.28614	205.15614	237.71853	1.78978	0.1304844	0.18388442	3.0627115	21	11 10.2	20.4
314462 2005 WW_{17}	15.9	X	26.43093	279.47821	74.28578	10.79807	0.0444843	0.18144794	3.0900679	21	11 12.1	20.1
314463 2005 WD_{20}	16.7	X	316.38462	106.73258	352.93653	2.88433	0.0996262	0.18725623	3.0258347	21	12 15.7	20.4
314464 2005 WR_{32}	15.8	X	27.77883	293.16489	68.95974	10.22748	0.0876275	0.18348227	3.0671851	21	11 27.9	19.8
314465 2005 WM_{44}	16.0	X	61.33406	278.33223	55.42063	3.43360	0.2130714	0.18938733	3.0030929	21	12 22.6	20.4
314466 2005 WR_{58}	15.6	X	357.59857	125.24852	288.34750	9.60383	0.0309612	0.18112551	3.0937340	21	12 14.5	19.8
314467 2005 WM_{60}	15.7	X	330.76710	218.98178	223.78000	16.75432	0.0897772	0.18567606	3.0429778	21	12 15.5	19.7
314468 2005 WF_{67}	16.3	X	294.52739	79.33175	92.15271	3.04300	0.0714986	0.19456040	2.9496223	21	—	—
314469 2005 WO_{69}	16.2	X	152.21701	162.70157	78.24313	10.86618	0.0473980	0.18221925	3.0813419	21	11 22.4	20.7
314470 2005 WY_{71}	16.9	X	319.68250	240.48042	178.90394	0.94594	0.2287462	0.18081385	3.0972879	21	10 19.2	20.0
314471 2005 WS_{72}	15.6	X	323.62598	343.16011	63.03299	12.08570	0.0877807	0.17948467	3.1125605	21	10 23.2	19.6
314472 2005 WX_{72}	15.7	X	354.53308	5.00165	54.45477	6.50361	0.1209589	0.18681560	3.0305907	21	12 25.4	19.3
314473 2005 WU_{78}	15.9	X	351.63656	105.04314	273.07696	8.00324	0.2008174	0.18022161	3.1040697	21	10 28.5	19.3
314474 2005 WC_{82}	15.7	X	300.32365	20.40602	62.03717	17.97743	0.1414079	0.18091036	3.0961863	21	10 30.2	19.7
314475 2005 WG_{90}	16.0	X	320.74030	54.92426	356.70722	5.39286	0.2195160	0.18152127	3.0892357	21	10 10.2	19.2
314476 2005 WC_{94}	16.0	X	333.64670	138.92828	258.07010	2.66591	0.1781022	0.18013256	3.1050927	21	10 19.2	19.4
314477 2005 WS_{97}	16.2	X	310.39139	123.30117	251.31596	9.42056	0.2911509	0.17506678	3.1647073	21	7 17.4	20.0
314478 2005 WS_{98}	15.5	X	254.20156	273.35434	168.06907	15.94638	0.2221075	0.17071459	3.2182686	21	8 9.5	20.6
314479 2005 WO_{102}	15.7	X	250.98113	352.52509	105.62821	18.87781	0.1553045	0.17327609	3.1864734	21	9 12.7	20.7
314480 2005 WQ_{114}	15.6	X	349.03607	77.11878	295.39506	10.12259	0.1354210	0.18091508	3.0961325	21	10 10.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314481 2005 WE_{115}	15.3	X	270.41653	40.85031	93.01841	17.76414	0.0625147	0.18059670	3.0997702	21	11 29.2	19.7
314482 2005 WO_{120}	15.1	X	261.89601	201.95743	261.19688	27.68216	0.1671130	0.17494438	3.1661833	21	9 8.4	20.3
314483 2005 WJ_{131}	17.1	X	256.99737	46.06051	67.97008	2.37451	0.1902390	0.17796795	3.1302199	21	9 29.0	21.6
314484 2005 WC_{137}	16.2	X	236.47143	140.91856	54.69932	7.13848	0.1375277	0.19088220	2.9873935	21	12 20.5	20.6
314485 2005 WZ_{141}	16.5	X	334.03056	6.01737	36.22013	5.66196	0.1617539	0.18628746	3.0363160	21	10 29.8	19.8
314486 2005 WZ_{142}	15.0	X	351.64465	301.12141	94.38896	28.07312	0.2409617	0.18109600	3.0940701	21	12 3.9	18.3
314487 2005 WT_{145}	16.4	X	120.66496	241.97350	34.69734	2.64088	0.0676005	0.18443776	3.0565827	21	11 30.6	21.0
314488 2005 WR_{165}	17.1	X	297.86701	351.33556	78.10603	2.84644	0.1495395	0.17913792	3.1165758	21	10 4.1	20.9
314489 2005 WW_{166}	16.6	X	26.05321	314.92565	91.04334	2.72558	0.0531178	0.19087006	2.9875201	21	—	—
314490 2005 WO_{171}	16.4	X	12.61005	186.72590	188.24618	1.86871	0.0925070	0.18208571	3.0828482	21	11 23.2	20.2
314491 2005 WU_{179}	15.7	X	48.32586	56.33814	300.50556	7.48786	0.1013261	0.18885128	3.0087730	21	12 20.8	20.0
314492 2005 WD_{182}	15.9	X	10.09031	260.68972	97.30004	10.70772	0.2394726	0.18323712	3.0699201	21	11 18.1	19.3
314493 2005 WH_{183}	15.8	X	25.25639	333.45850	50.48979	9.85112	0.1036251	0.18814771	3.0162692	21	12 23.8	19.8
314494 2005 WW_{184}	15.7	X	292.57018	12.17841	53.37070	10.77262	0.1017251	0.17750258	3.1356887	21	10 1.2	19.9
314495 2005 WQ_{186}	16.4	X	315.73247	154.40763	287.11750	4.41416	0.1330380	0.18548912	3.0450219	21	11 18.4	20.0
314496 2005 WS_{190}	15.6	X	83.21278	242.96488	78.88529	15.03581	0.2559649	0.19230145	2.9726767	21	—	—
314497 2005 WF_{191}	16.0	X	29.45132	90.36390	279.78612	4.38623	0.1703778	0.18774044	3.0206297	21	12 22.3	19.7
314498 2005 WQ_{192}	16.9	X	167.20382	163.34452	271.66283	16.67094	0.0941120	0.34705945	2.0053959	21	5 4.4	19.8
314499 2005 WL_{194}	15.7	X	218.17474	268.53426	216.59802	24.61264	0.2437869	0.17127440	3.2112522	21	8 22.2	21.6
314500 2005 WS_{195}	15.5	X	64.57683	35.55712	279.96187	9.97527	0.0984850	0.17615393	3.1516730	21	11 16.0	20.1
314501 2005 WP_{198}	15.7	X	170.89477	185.11452	58.92580	11.99299	0.0771565	0.18770407	3.0210199	21	12 13.7	20.3
314502 2005 WB_{208}	16.5	X	275.47526	31.56088	91.25297	3.75401	0.1393402	0.18137067	3.0909455	21	11 9.7	20.6
314503 2005 WB_{211}	16.5	X	357.27641	199.44872	178.80042	1.46774	0.0947282	0.18172990	3.0868708	21	11 4.7	20.2
314504 2005 XL_{2}	15.8	X	339.88549	85.73620	293.37931	4.44252	0.0912736	0.17396639	3.1780384	21	10 5.8	19.8
314505 2005 XV_{2}	15.9	X	281.11257	227.53453	264.88035	11.69860	0.2190430	0.18414724	3.0597968	21	11 16.2	19.8
314506 2005 XG_{3}	15.6	X	321.25895	86.69028	308.37584	8.11802	0.0874705	0.17908658	3.1171715	21	9 26.8	19.7
314507 2005 XL_{24}	17.5	X	227.81775	125.37349	267.18953	17.85686	0.0793086	0.35014567	1.9935947	21	5 20.4	20.0
314508 2005 XS_{30}	15.7	X	284.00611	176.81017	246.11697	14.48621	0.1812472	0.17308238	3.1888503	21	8 22.4	20.4
314509 2005 XS_{34}	15.8	X	333.58748	100.97861	264.09213	8.26718	0.2454571	0.17526196	3.1623573	21	8 26.3	19.0
314510 2005 XM_{36}	16.8	X	307.38124	47.16659	32.83638	0.59662	0.1089821	0.17974684	3.1095332	21	11 4.8	20.6
314511 2005 XD_{57}	15.6	X	9.22105	325.08966	95.67209	9.92553	0.0842570	0.18960314	3.0008137	21	—	—
314512 2005 XM_{67}	16.3	X	341.76087	358.26025	65.00470	11.66828	0.1208311	0.18529482	3.0471502	21	12 8.8	19.9
314513 2005 XE_{69}	15.5	X	0.54369	93.16843	281.96717	13.19724	0.1027367	0.18054087	3.1004093	21	11 1.6	19.7
314514 2005 XX_{70}	15.6	X	260.91933	328.87861	128.80610	18.79061	0.1840271	0.17644809	3.1481693	21	9 17.8	20.3
314515 2005 XD_{79}	15.5	X	272.62385	159.87294	273.17045	11.40227	0.0531086	0.17505220	3.1648831	21	9 8.9	20.2
314516 2005 XW_{82}	15.8	X	334.59601	113.92403	314.63042	11.73021	0.1492789	0.18737369	3.0245700	21	12 4.1	19.4
314517 2005 XF_{90}	15.8	X	63.47111	41.16585	277.99166	9.59749	0.0974584	0.17933504	3.1142917	21	11 19.9	20.3
314518 2005 YO_{1}	15.9	X	300.27152	67.34894	337.62896	12.40431	0.3001463	0.17376418	3.1805035	21	8 13.4	19.9
314519 2005 YM_{2}	16.1	X	1.49036	112.33400	256.75527	11.00105	0.0618754	0.18064739	3.0991904	21	10 24.8	20.3
314520 2005 YP_{4}	16.0	X	236.79020	101.56687	60.76660	8.28160	0.2086002	0.17984518	3.1083997	21	11 2.8	20.7
314521 2005 YH_{6}	16.1	X	275.11333	51.11765	83.07191	10.59879	0.0196613	0.18449556	3.0559443	21	12 8.8	20.3
314522 2005 YF_{9}	16.7	X	270.87079	112.51720	47.43262	3.65115	0.1327207	0.18796138	3.0182622	21	12 20.5	20.7
314523 2005 YC_{11}	16.7	X	316.58779	11.82066	26.87149	1.92044	0.1065231	0.17458588	3.1705162	21	9 26.8	20.6
314524 2005 YS_{14}	15.5	X	178.95515	101.97878	111.55494	6.83832	0.0980821	0.17411895	3.1761819	21	11 16.2	20.5
314525 2005 YP_{16}	15.5	X	32.02878	223.23311	118.66775	11.09056	0.0741893	0.17392220	3.1785768	21	11 9.3	19.9
314526 2005 YW_{16}	16.1	X	247.71353	22.13577	120.67194	5.71998	0.0985997	0.17563624	3.1578631	21	11 5.3	20.6
314527 2005 YH_{20}	15.8	X	92.63730	344.03691	289.15039	3.33672	0.1416585	0.17239811	3.1972828	21	11 1.8	20.8
314528 2005 YX_{25}	15.6	X	3.49911	100.04867	292.90681	9.55588	0.0441228	0.17800769	3.1297540	21	11 26.1	19.9
314529 2005 YH_{27}	15.6	X	102.55018	358.15625	305.77149	8.75632	0.0852719	0.17950187	3.1123618	21	12 14.5	20.3
314530 2005 YR_{27}	15.6	X	204.00802	229.00412	312.89928	4.19195	0.1181795	0.17386751	3.1792432	21	10 29.7	20.6
314531 2005 YS_{30}	16.2	X	231.91908	200.60715	297.82316	6.58798	0.0816850	0.17270375	3.1935094	21	10 9.2	21.0
314532 2005 YQ_{41}	14.8	X	260.87145	187.28444	294.10644	25.76325	0.0747656	0.17545276	3.1600642	21	10 14.7	19.8
314533 2005 YO_{42}	15.4	X	314.35618	310.49509	100.76686	10.51874	0.0696288	0.17409011	3.1765326	21	10 17.6	19.7
314534 2005 YD_{43}	15.2	X	304.81861	335.45775	118.01021	10.01723	0.0718375	0.17856291	3.1232629	21	11 23.7	19.4
314535 2005 YU_{48}	15.6	X	171.77973	252.85227	307.63591	7.26291	0.0977061	0.17052866	3.2206075	21	10 19.3	20.8
314536 2005 YM_{54}	15.8	X	173.36857	78.02528	122.48703	9.38582	0.1344423	0.17171834	3.2057152	21	10 27.4	21.1
314537 2005 YS_{68}	15.8	X	34.27618	52.13534	294.79810	9.38485	0.0791093	0.17721476	3.1390830	21	11 12.9	20.1
314538 2005 YU_{68}	15.7	X	125.51650	306.92970	312.40634	4.49902	0.1577191	0.17478575	3.1680987	21	11 17.9	20.9
314539 2005 YQ_{73}	15.4	X	261.93447	22.82347	89.84596	14.87127	0.1099927	0.17573854	3.1566374	21	10 20.5	20.1
314540 2005 YK_{82}	15.1	X	127.18521	171.78781	118.27876	13.04511	0.1216431	0.18069687	3.0986246	21	12 25.4	20.0
314541 2005 YE_{84}	15.1	X	333.91222	285.52034	119.27080	18.84073	0.0616832	0.17556600	3.1587052	21	11 9.4	19.6
314542 2005 YT_{90}	15.6	X	190.83338	97.10051	124.56353	13.84865	0.1491765	0.17607773	3.1525823	21	12 4.9	20.8
314543 2005 YA_{92}	15.8	X	71.64324	67.09047	270.14329	8.03786	0.1292575	0.18765339	3.0215639	21	12 27.2	20.2
314544 2005 YS_{94}	15.9	X	343.65990	67.90149	350.16055	9.48045	0.1807271	0.18659781	3.0329484	21	12 7.7	19.3
314545 2005 YY_{106}	15.5	X	129.87005	326.80869	287.03737	10.53277	0.2179561	0.17378561	3.1802421	21	11 17.0	21.0
314546 2005 YJ_{113}	15.5	X	256.29841	15.33643	110.48215	6.64527	0.0915032	0.17657892	3.1466141	21	10 27.8	20.0
314547 2005 YU_{113}	15.7	X	231.24026	61.80028	64.05950	5.44445	0.1023498	0.17079476	3.2172615	21	9 26.7	20.5
314548 2005 YE_{118}	15.6	X	164.99085	308.66185	304.23237	9.62300	0.0108645	0.18057140	3.1000598	21	12 20.2	20.1
314549 2005 YW_{124}	15.4	X	92.85618	354.18010	308.98346	9.07779	0.1124348	0.17929688	3.1147335	21	12 5.5	20.2
314550 2005 YA_{125}	16.0	X	193.98687	108.91640	74.39037	5.25627	0.1164617	0.17356172	3.1829764	21	10 25.2	20.9
314551 2005 YE_{125}	15.2	X	105.14526	314.60333	303.84224	9.52794	0.0580567	0.17233186	3.1981021	21	10 16.3	20.1
314552 2005 YS_{125}	15.8	X	324.15296	297.38500	95.43963	13.93888	0.1028797	0.17289795	3.1911177	21	10 8.5	20.1
314553 2005 YP_{139}	16.4	X	315.11614	350.77135	31.16163	0.99035	0.1939011	0.17211707	3.2007623	21	8 22.8	20.2
314554 2005 YS_{153}	15.5	X	251.79153	47.64960	99.89888	18.14998	0.2001536	0.17732810	3.1377452	21	11 7.7	20.4
314555 2005 YP_{155}	16.1	X	127.22126	356.09161	272.44549	3.11364	0.1353760	0.18167248	3.0875212	21	11 30.8	21.1
314556 2005 YU_{155}	14.7	X	217.49226	238.31023	295.82161	20.18242	0.1392681	0.17179813	3.2047224	21	10 25.7	20.1
314557 2005 YV_{158}	16.5	X	209.91267	358.87296	144.85829	5.50779	0.1034411	0.17049588	3.2210202	21	9 24.4	21.4
314558 2005 YT_{160}	15.6	X	231.40760	39.32211	131.86318	8.88517	0.0245836	0.17924811	3.1152984	21	11 30.3	20.2
314559 2005 YM_{163}	15.6	X	258.00128	46.76545	111.87252	19.19283	0.2289467	0.18004430	3.1061073	21	11 23.1	20.3
314560 2005 YQ_{165}	15.2	X	307.74646	295.04077	122.64413	15.68420	0.0528340	0.17337587	3.1852507	21	10 19.5	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314561 2005 YK_{168}	15.3	X	224.41650	29.10309	137.73118	18.50092	0.1973791	0.17458281	3.1705533	21	11 1.9	20.6
314562 2005 YX_{168}	15.8	X	135.49744	316.77861	302.71264	9.47209	0.0862607	0.17862597	3.1225278	21	11 24.4	20.7
314563 2005 YQ_{169}	15.3	X	225.96269	54.23774	118.12208	17.59843	0.1943865	0.17612827	3.1519791	21	11 10.5	20.5
314564 2005 YF_{176}	15.1	X	191.60316	295.31375	294.78977	25.48410	0.1554488	0.17866444	3.1220796	21	12 14.7	20.3
314565 2005 YW_{176}	16.2	X	119.62640	317.53799	323.50007	1.15334	0.1371315	0.17736293	3.1373344	21	12 7.8	21.2
314566 2005 YH_{180}	15.8	X	292.95705	11.62792	58.84611	5.09487	0.1038161	0.17453510	3.1711311	21	10 4.4	19.9
314567 2005 YV_{181}	15.4	X	267.46029	357.01175	132.54003	18.39487	0.1554101	0.17686699	3.1431965	21	11 10.1	20.1
314568 2005 YA_{182}	14.9	X	240.65472	40.01824	108.05432	19.09912	0.1377841	0.17723881	3.1387990	21	11 4.9	19.9
314569 2005 YH_{184}	16.5	X	205.04955	340.16251	203.41926	4.32471	0.1495827	0.17414284	3.1758914	21	11 1.5	21.6
314570 2005 YN_{187}	16.0	X	155.91280	314.72417	285.01740	7.95152	0.0499883	0.17766226	3.1338095	21	11 21.9	20.8
314571 2005 YX_{190}	15.7	X	171.91056	120.66734	108.98326	12.68488	0.1422947	0.17610954	3.1522027	21	11 27.7	20.9
314572 2005 YV_{197}	15.3	X	127.34798	347.50799	287.44799	9.57557	0.1742837	0.17898527	3.1183476	21	12 9.4	20.5
314573 2005 YF_{213}	15.6	X	313.99550	351.42360	77.57629	10.54233	0.0815481	0.17779814	3.1322126	21	11 5.8	19.7
314574 2005 YX_{213}	15.0	X	160.69320	110.44688	95.21812	11.57404	0.0562639	0.16976923	3.2302048	21	10 23.1	20.0
314575 2005 YJ_{214}	15.7	X	319.34029	85.74076	313.44859	24.56925	0.2114194	0.17494180	3.1662145	21	9 7.9	19.7
314576 2005 YR_{215}	15.4	X	220.49037	201.16088	286.17778	26.03431	0.1363628	0.16984563	3.2292361	21	8 27.7	20.9
314577 2005 YJ_{216}	16.3	X	346.66063	305.14952	83.07672	5.31702	0.0630689	0.17658727	3.1465149	21	10 31.9	20.5
314578 2005 YZ_{220}	15.3	X	268.22530	158.58958	352.40606	11.45591	0.1105013	0.18141765	3.0904119	21	12 5.8	19.7
314579 2005 YQ_{235}	16.1	X	210.95228	259.49249	292.37007	9.68632	0.0514679	0.17874520	3.1211391	21	11 24.9	20.7
314580 2005 YG_{248}	15.7	X	298.02512	292.75688	121.04938	19.42300	0.1444507	0.17155056	3.2078050	21	9 18.6	20.1
314581 2005 YA_{265}	16.1	X	183.39318	107.90255	84.79403	2.16933	0.1195944	0.17150003	3.2084350	21	10 24.8	21.0
314582 2005 YJ_{274}	15.3	X	345.59078	67.72338	323.83658	8.59394	0.0910604	0.17415219	3.1757777	21	10 28.9	19.5
314583 2005 YN_{288}	16.8	X	291.80778	5.61955	94.65693	3.30151	0.2182132	0.18280135	3.0747971	21	10 25.2	20.4
314584 2006 AC_{8}	15.8	X	249.66038	347.89563	144.19789	16.25938	0.2211006	0.17385446	3.1794023	21	10 12.3	20.8
314585 2006 AQ_{9}	15.7	X	262.74017	35.24658	107.85582	11.62691	0.0736014	0.17957788	3.1114834	21	11 28.3	20.1
314586 2006 AN_{10}	15.7	X	356.52951	296.18068	112.06646	12.60437	0.0618656	0.18071674	3.0983974	21	12 10.1	19.9
314587 2006 AJ_{11}	15.8	X	185.01783	105.71660	121.24873	5.20273	0.1567558	0.17500185	3.1654901	21	12 3.4	20.9
314588 2006 AW_{12}	15.3	X	178.09646	147.97092	96.07610	10.75549	0.0528602	0.18089339	3.0963800	21	12 22.2	19.7
314589 2006 AW_{18}	15.1	X	237.11456	224.12353	339.38466	26.66975	0.1619803	0.17867451	3.1219623	21	12 30.3	20.2
314590 2006 AZ_{18}	15.9	X	310.27351	131.35182	269.41531	3.36616	0.1228105	0.16979335	3.2298989	21	9 15.0	19.9
314591 2006 AB_{26}	15.4	X	172.36451	108.58117	98.61211	10.23524	0.0429975	0.17518436	3.1632911	21	11 5.8	20.2
314592 2006 AK_{32}	15.3	X	216.20777	155.59911	22.27297	9.16387	0.1410174	0.17394908	3.1782493	21	11 4.2	20.2
314593 2006 AO_{45}	15.5	X	179.28093	85.94001	114.39923	27.51926	0.1245702	0.17340886	3.1848466	21	11 9.8	21.1
314594 2006 AV_{47}	15.9	X	209.73084	41.12740	137.16707	6.12197	0.1850328	0.17315804	3.1879215	21	10 29.8	21.1
314595 2006 AS_{61}	15.2	X	127.07266	143.23149	134.11339	13.40933	0.1078964	0.17676560	3.1443983	21	12 10.9	20.3
314596 2006 AT_{71}	16.0	X	255.17483	170.57474	287.71579	4.05101	0.1296229	0.16927721	3.2364611	21	9 11.8	20.8
314597 2006 AP_{74}	15.2	X	248.39827	156.19896	358.47207	15.88746	0.1920722	0.17463493	3.1699225	21	10 30.8	20.1
314598 2006 AV_{81}	14.7	X	129.15557	335.32768	293.65508	16.16044	0.1970914	0.17686664	3.1432006	21	12 4.5	20.1
314599 2006 AX_{90}	17.1	X	227.74962	6.78185	157.27663	0.45306	0.1563875	0.17536893	3.1610713	21	10 30.8	22.0
314600 2006 AH_{97}	15.8	X	286.65649	40.83450	25.60418	9.09447	0.2133165	0.16979142	3.2299234	21	9 5.4	20.1
314601 2006 BE_{1}	16.0	X	243.77478	101.32337	5.39393	12.81718	0.1817707	0.16985603	3.2291042	21	9 8.2	20.9
314602 2006 BD_{6}	15.4	X	270.75500	187.54100	296.59775	15.20856	0.1628657	0.17562252	3.1580276	21	10 23.9	20.0
314603 2006 BD_{28}	16.4	X	185.16762	169.10388	311.16751	4.27388	0.0284780	0.15992731	3.3614059	21	8 1.7	21.3
314604 2006 BN_{57}	15.3	X	5.26618	33.49015	329.95711	10.41827	0.1057076	0.17140957	3.2095638	21	10 22.7	19.6
314605 2006 BK_{73}	16.3	X	225.45768	57.46042	74.85070	4.16957	0.0959338	0.16807475	3.2518792	21	9 28.1	21.1
314606 2006 BL_{150}	17.8	X	170.69236	100.36987	324.14971	12.32200	0.0491591	0.33969770	2.0342655	21	4 16.5	20.4
314607 2006 BJ_{201}	15.4	X	146.55794	101.66712	131.02409	13.05344	0.0888913	0.17330585	3.1861085	21	11 9.6	20.5
314608 2006 BQ_{274}	15.5	X	222.16982	239.86360	346.87251	9.00836	0.1293785	0.17961468	3.1110584	21		—
314609 2006 BM_{278}	15.4	X	180.58347	238.07774	337.28220	8.05353	0.1011682	0.17277603	3.1926187	21	11 15.0	20.5
314610 2006 CL_{44}	16.2	X	337.91122	263.57377	119.59960	10.72918	0.2410374	0.17563453	3.1578836	21	10 13.1	19.4
314611 2006 DH_{12}	15.6	X	223.52003	28.74267	164.82464	5.64996	0.1349443	0.17209774	3.2010019	21	12 2.5	20.4
314612 2006 DZ_{24}	18.2	X	226.86993	115.56238	143.12259	3.12751	0.0997235	0.31243583	2.1509426	21	—	—
314613 2006 DQ_{51}	15.7	X	40.68386	259.47015	63.83757	1.33099	0.0460158	0.16811425	3.2513698	21	10 20.5	20.2
314614 2006 DD_{59}	16.9	X	129.99055	225.06004	345.87136	7.19748	0.0576791	0.28615432	2.2807053	21	9 30.5	20.0
314615 2006 DY_{91}	18.4	X	12.37793	123.48276	338.37028	3.66857	0.0454832	0.31260385	2.1501718	21		—
314616 2006 DF_{104}	17.0	X	118.30168	192.45985	357.54184	4.73474	0.0749781	0.28132034	2.3067576	21	8 21.9	20.0
314617 2006 DC_{121}	15.2	X	240.41135	22.66295	121.32778	14.80048	0.1043806	0.17079069	3.2173125	21	10 31.9	20.2
314618 2006 DU_{123}	16.2	X	204.49603	51.57778	172.96255	5.69490	0.1254769	0.17348814	3.1838763	21	12 19.7	21.2
314619 2006 DZ_{210}	15.2	X	255.00376	330.68148	190.59792	22.52893	0.0909880	0.17135505	3.2102445	21	12 5.0	20.1
314620 2006 EG_{62}	17.7	X	194.65610	231.06311	332.07670	7.24700	0.0430041	0.29615323	2.2290770	21	12 13.0	20.5
314621 2006 FO_{7}	18.0	X	46.68094	14.73809	30.61025	4.50331	0.0363029	0.30362222	2.1923691	21	—	—
314622 2006 FR_{11}	17.9	X	187.52701	161.81647	96.60533	2.27345	0.1440396	0.30185763	2.2009049	21	—	—
314623 2006 FD_{29}	18.0	X	190.22777	210.46185	32.99593	4.73017	0.1482156	0.29782821	2.2207116	21	—	—
314624 2006 FO_{41}	17.2	X	29.18755	325.63923	44.33308	5.04101	0.1787778	0.29240606	2.2480802	21	—	—
314625 2006 FB_{54}	18.0	X	219.29872	63.39104	173.95796	5.32025	0.1102014	0.30370006	2.1919945	21	—	—
314626 2006 GC_{13}	18.0	X	219.79161	163.43642	75.49793	3.95870	0.0944034	0.30386498	2.1912013	21	—	—
314627 2006 GY_{26}	17.3	X	46.47075	281.50466	45.99749	7.42516	0.1460755	0.28540470	2.2846971	21	12 6.0	20.1
314628 2006 HU_{2}	17.9	X	354.53565	219.92184	64.50985	3.73566	0.1415015	0.27181617	2.3602202	21	6 25.1	19.7
314629 2006 HB_{9}	17.6	X	146.22392	330.91761	316.08825	2.05568	0.1472943	0.29909636	2.2144300	21	—	—
314630 2006 HH_{16}	17.8	X	223.15386	155.05127	76.77808	4.42505	0.1639633	0.30080979	2.2060130	21	—	—
314631 2006 HB_{17}	15.0	X	288.77468	336.11590	194.26747	22.59065	0.2003785	0.18103903	3.0947192	21	—	—
314632 2006 HU_{39}	17.1	X	169.04119	158.18926	118.67412	8.52588	0.1977152	0.29657660	2.2269551	21	—	—
314633 2006 HT_{46}	17.7	X	14.29359	308.28071	110.75937	4.81270	0.1049505	0.29969217	2.2114941	21	—	—
314634 2006 HK_{63}	16.9	X	309.31339	301.09323	65.86897	5.60745	0.1657649	0.27430118	2.3459438	21	8 2.9	19.2
314635 2006 HL_{101}	16.9	X	288.04772	194.56219	195.43065	7.47249	0.1683494	0.27370592	2.3493438	21	7 26.6	19.6
314636 2006 HE_{102}	18.3	X	318.97877	344.15339	179.07539	3.59872	0.0801515	0.30662707	2.1780226	21	—	—
314637 2006 JK	17.0	X	202.91094	233.45355	17.44752	6.65017	0.0985138	0.30053815	2.2073421	21	—	—
314638 2006 JQ_{26}	17.3	X	223.64781	231.95660	352.22814	6.18976	0.1398845	0.30031178	2.2084512	21	—	—
314639 2006 JX_{28}	16.8	X	86.90391	228.36405	68.53727	6.40446	0.1418546	0.28643347	2.2792233	21	12 12.2	19.9
314640 2006 JW_{29}	17.9	X	210.54252	67.18955	184.36729	5.22525	0.0811883	0.30212305	2.1996157	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314641 2006 JM_{33}	18.0	X	234.74087	173.44353	48.99422	3.17559	0.1017839	0.30167533	2.2017915	21	—	—
314642 2006 JY_{33}	17.9	X	165.23242	252.38327	55.29165	13.43911	0.2171803	0.23479970	2.6021822	21	—	—
314643 2006 JZ_{44}	17.3	X	45.56155	235.57627	75.39522	5.82966	0.1757385	0.28093544	2.3088641	21	11 17.8	20.1
314644 2006 KE_{7}	18.0	X	243.91280	77.15235	64.88720	3.59151	0.1425479	0.29060733	2.2573471	21	11 9.5	20.6
314645 2006 KY_{11}	17.5	X	88.66215	151.73023	155.17320	11.69709	0.1014225	0.28927953	2.2642493	21	12 24.7	20.8
314646 2006 KP_{27}	16.6	X	285.53759	327.53865	55.05737	9.91242	0.2742228	0.27105171	2.3646559	21	6 25.5	19.6
314647 2006 KW_{101}	14.8	X	352.16082	60.95310	161.47549	10.37667	0.1215006	0.12587740	3.9430977	21	4 10.7	19.8
314648 2006 KH_{112}	17.6	X	253.83841	172.30166	8.11105	2.14961	0.0453032	0.29675153	2.2260798	21	—	—
314649 2006 KG_{144}	18.3	X	260.64554	55.90266	132.47303	1.06338	0.0820458	0.30177088	2.2013267	21	—	—
314650 Neilnorman	16.7	X	149.20326	202.19005	165.43157	15.07520	0.2637598	0.22908842	2.6452534	21	2 15.2	21.0
314651 2006 OC_{2}	13.5	X	354.25754	103.84573	298.96938	5.25236	0.0718678	0.08092008	5.2937713	21	11 9.2	20.2
314652 2006 OK_{2}	17.3	X	101.13586	3.05472	298.23818	4.87976	0.1750702	0.28217553	2.3020945	21	—	—
314653 2006 OG_{4}	17.0	X	61.26965	315.43442	343.55531	8.55952	0.2113932	0.26952606	2.3735709	21	11 20.4	20.5
314654 2006 OJ_{8}	17.0	X	56.43419	198.32577	118.01761	7.58696	0.1555293	0.27632154	2.3344947	21	12 5.1	20.1
314655 2006 OZ_{12}	16.6	X	333.82919	56.57621	291.59721	5.81904	0.2029172	0.26373064	2.4082172	21	8 17.4	18.3
314656 2006 OJ_{13}	17.2	X	62.66252	153.79121	151.87632	10.77927	0.2272911	0.27303785	2.3531745	21	12 7.1	20.8
314657 2006 OW_{20}	16.6	X	330.68070	340.43815	325.66449	5.96411	0.1206496	0.25835109	2.4415325	21	6 12.9	19.3
314658 2006 PC_{3}	16.7	X	358.65379	341.57981	342.84945	6.34352	0.1198271	0.26585736	2.3953571	21	9 7.1	18.8
314659 2006 PV_{9}	17.3	X	136.74174	151.46035	128.23553	4.97428	0.1405206	0.28356219	2.2945833	21	—	—
314660 2006 PG_{23}	17.3	X	91.15286	192.79279	86.48883	3.14820	0.2078221	0.27688774	2.3313111	21	11 28.5	20.9
314661 2006 QC_{12}	16.8	X	102.68154	278.60662	338.97257	9.59104	0.1935658	0.27541075	2.3396387	21	11 6.8	20.6
314662 2006 QX_{13}	16.1	X	180.68203	51.24899	332.76165	8.89481	0.0468768	0.24341904	2.5403859	21	3 19.3	19.6
314663 2006 QH_{15}	16.7	X	327.33649	81.47993	283.15768	5.28754	0.1238152	0.26464225	2.4026837	21	9 3.9	19.0
314664 2006 QS_{15}	17.2	X	262.86259	250.92990	130.43531	6.78464	0.1266067	0.25561602	2.4589178	21	6 17.8	20.5
314665 2006 QZ_{24}	17.3	X	157.42382	68.77840	289.54955	5.15301	0.3353633	0.22992381	2.6388422	21	2 15.6	21.9
314666 2006 QQ_{38}	16.6	X	58.86913	334.48308	323.02959	23.42475	0.1361366	0.27111359	2.3642961	21	10 26.2	20.3
314667 2006 QR_{47}	17.0	X	152.74436	359.39598	7.04618	5.24856	0.3184712	0.22880840	2.6474113	21	2 23.6	21.6
314668 2006 QB_{56}	16.4	X	157.01414	193.42453	138.65626	2.50387	0.1338307	0.22627711	2.6671185	21	—	—
314669 2006 QW_{63}	16.9	X	251.44961	332.30358	359.47693	14.49432	0.1887310	0.24331084	2.5411389	21	3 24.9	21.0
314670 2006 QX_{77}	16.5	X	141.76842	228.72181	162.84491	13.59470	0.1840124	0.23243987	2.6197648	21	3 2.6	20.4
314671 2006 QN_{85}	18.1	X	162.84006	74.95476	148.74104	0.95302	0.1536131	0.27831259	2.3233474	21	11 22.7	21.5
314672 2006 QP_{88}	17.7	X	164.27137	241.88820	152.02197	6.25687	0.3199205	0.23475696	2.6024980	21	4 4.7	22.5
314673 2006 QT_{93}	17.3	X	82.36690	37.05034	268.28209	6.51505	0.1204033	0.27719802	2.3295711	21	12 14.9	20.4
314674 2006 QS_{99}	16.8	X	133.66447	320.82724	284.95257	9.47257	0.1090645	0.27707456	2.3302631	21	11 20.6	20.4
314675 2006 QK_{106}	17.7	X	166.92458	44.35235	322.43273	2.93864	0.2468384	0.23331845	2.6131840	21	2 27.8	22.0
314676 2006 QM_{106}	17.0	X	40.21298	2.13475	272.45257	1.75024	0.1880231	0.26471196	2.4022619	21	9 17.4	19.5
314677 2006 QU_{108}	16.0	X	301.19820	123.25419	174.84287	21.96856	0.2397636	0.18267135	3.0762557	21	4 7.1	20.4
314678 2006 QJ_{114}	17.0	X	354.06363	71.39622	235.19682	5.75186	0.1489931	0.26064089	2.4272118	21	7 28.6	19.2
314679 2006 QF_{126}	16.6	X	222.67754	263.10434	109.60730	14.55901	0.2021665	0.24426000	2.5345516	21	4 25.9	21.1
314680 2006 QF_{135}	16.3	X	47.39944	27.19776	347.11942	9.29139	0.0498226	0.21296562	2.7771311	21	—	—
314681 2006 QL_{136}	16.8	X	0.42940	80.60945	231.32970	6.38992	0.2743029	0.26205697	2.4184600	21	8 30.4	18.3
314682 2006 QQ_{142}	16.2	X	78.72690	171.47513	205.44805	16.42756	0.2713442	0.21667285	2.7453627	21	—	—
314683 2006 QY_{145}	17.1	X	182.85751	55.35638	349.93155	7.23311	0.1671371	0.24120377	2.5559165	21	4 22.6	21.3
314684 2006 QC_{156}	17.2	X	197.54093	205.76788	331.15141	5.84194	0.0802683	0.27373129	2.3491987	21	10 31.9	20.6
314685 2006 QZ_{182}	16.9	X	214.59184	112.81756	341.87054	6.18289	0.0825098	0.25689174	2.4507704	21	8 4.8	20.2
314686 2006 QS_{183}	16.1	X	133.80952	75.82661	264.47515	11.24983	0.1895508	0.22307766	2.6925597	21	—	—
314687 2006 RK	16.4	X	98.87202	92.39436	341.28583	12.35552	0.1602904	0.22678418	2.6631413	21	3 3.2	19.8
314688 2006 RX	16.0	X	121.09079	28.57566	355.00664	28.93485	0.1248102	0.22468565	2.6796978	21	2 5.1	20.2
314689 2006 RT_{5}	17.2	X	53.25295	10.30308	265.09443	1.78779	0.2037407	0.26188997	2.4194880	21	10 10.3	20.2
314690 2006 RD_{12}	16.4	X	38.73995	267.87671	139.83058	6.75161	0.3504555	0.21092646	2.7950013	21	—	—
314691 2006 RN_{28}	17.0	X	169.79131	222.60098	196.66025	6.47917	0.1465864	0.24383656	2.5374851	21	4 30.6	20.9
314692 2006 RQ_{28}	17.1	X	193.88402	307.88197	270.06422	4.41486	0.1249270	0.28298410	2.2977073	21	12 19.7	20.3
314693 2006 RH_{51}	17.2	X	89.90408	62.26675	358.02005	0.46724	0.2813214	0.22178686	2.7029966	21	2 21.4	20.4
314694 2006 RS_{51}	17.0	X	82.67657	95.45239	18.19043	4.42077	0.1551137	0.22998224	2.6383952	21	4 1.5	20.1
314695 2006 RF_{56}	16.7	X	230.07160	323.74416	24.12855	4.09572	0.0796897	0.23869937	2.5737629	21	4 1.8	20.4
314696 2006 RQ_{66}	16.5	X	112.49330	54.24482	9.13277	6.24769	0.1011720	0.22827574	2.6515279	21	2 28.8	20.0
314697 2006 RQ_{71}	16.3	X	74.47481	271.74868	181.38509	11.63830	0.2126569	0.22597824	2.6694695	21	2 26.8	19.2
314698 2006 RZ_{72}	17.3	X	123.21226	203.23257	346.80220	0.70834	0.1333045	0.25712261	2.4493031	21	8 30.4	20.9
314699 2006 RJ_{86}	17.2	X	198.46171	165.98650	184.29585	4.40078	0.1910011	0.23472376	2.6027433	21	3 2.9	21.6
314700 2006 RB_{97}	17.2	X	206.76994	56.74992	290.35993	0.95215	0.1939477	0.23506439	2.6002284	21	3 6.3	21.7
314701 2006 RN_{100}	16.8	X	89.45836	281.68115	128.52030	7.90525	0.3222349	0.22271238	2.6955030	21	2 14.8	20.0
314702 2006 RC_{101}	16.9	X	150.62711	266.85630	120.80245	12.33711	0.2125399	0.23135524	2.6279463	21	3 13.2	21.2
314703 2006 RN_{107}	16.9	X	96.26281	143.30421	5.91264	14.25152	0.1258346	0.24167299	2.5526071	21	5 29.7	20.6
314704 2006 RL_{121}	16.9	X	89.97177	201.53661	0.58448	4.48589	0.1348242	0.25315877	2.4748036	21	8 9.6	20.2
314705 2006 SR	16.9	X	217.47290	10.15154	330.10904	11.38485	0.1894249	0.23744227	2.5828391	21	3 5.3	21.3
314706 2006 SC_{1}	17.8	X	179.89088	176.87737	259.25060	1.69048	0.1284633	0.24488036	2.5302693	21	5 30.8	21.6
314707 2006 SB_{2}	16.9	X	128.32753	95.28662	315.32939	14.01793	0.2017983	0.23037204	2.6354182	21	3 9.1	20.9
314708 2006 SS_{6}	17.0	X	146.11139	271.80817	132.10138	12.62347	0.2721901	0.23259655	2.6185882	21	4 3.2	21.5
314709 2006 SY_{8}	16.4	X	120.44177	250.01322	213.20439	8.25192	0.1419299	0.23703888	2.5857686	21	5 4.8	20.1
314710 2006 SH_{12}	16.5	X	139.67385	205.10980	176.68478	13.57995	0.1946552	0.22658264	2.6647203	21	2 16.5	20.6
314711 2006 SP_{18}	16.4	X	139.99335	24.92213	24.23066	16.04837	0.1435478	0.23098739	2.6307356	21	3 23.3	20.4
314712 2006 SL_{23}	16.7	X	130.51082	33.56346	3.22089	12.25297	0.2991785	0.22938162	2.6429988	21	3 12.3	20.9
314713 2006 SL_{24}	16.3	X	95.19440	118.39707	319.84140	11.59033	0.1645221	0.22815182	2.6524880	21	3 1.7	19.7
314714 2006 SR_{27}	15.8	X	143.49657	305.91105	51.15708	15.22765	0.2640941	0.22175995	2.7032153	21	2 5.5	20.4
314715 2006 SH_{50}	16.9	X	184.31857	199.36773	181.55031	8.98781	0.1705677	0.23786751	2.5797600	21	3 28.1	20.9
314716 2006 SX_{52}	16.4	X	176.52267	274.91699	60.75120	9.39693	0.4493525	0.22994098	2.6387108	21	2 11.7	21.8
314717 2006 SV_{56}	16.7	X	157.17073	244.79697	136.77626	13.49766	0.2820181	0.23158375	2.6262173	21	3 15.5	21.3
314718 2006 SB_{57}	17.4	X	66.91952	61.71247	17.30565	8.54193	0.2521702	0.21951460	2.7216176	21	2 6.2	20.1
314719 2006 SO_{62}	16.5	X	128.18697	20.12414	53.66463	7.74769	0.1226048	0.23319113	2.6141351	21	4 5.9	20.3
314720 2006 SQ_{64}	16.5	X	105.35105	143.31905	334.39928	12.23545	0.1329026	0.23477663	2.6023526	21	4 28.2	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314721 2006 SD_{71}	16.6	X	24.30536	288.25927	159.48798	2.30319	0.0469101	0.21605361	2.7506058	21	—	—
314722 2006 SD_{72}	17.2	X	106.60191	270.56737	170.53370	4.05293	0.1717289	0.22819888	2.6521233	21	3 25.2	20.8
314723 2006 SJ_{75}	16.9	X	150.82896	332.84867	47.12679	3.89591	0.2900829	0.22846377	2.6500729	21	3 8.3	21.3
314724 2006 SY_{75}	17.2	X	156.25163	341.55027	36.13860	4.03906	0.1627075	0.22916462	2.6446671	21	2 28.1	21.2
314725 2006 SB_{78}	17.3	X	168.82627	304.50896	111.81119	5.52348	0.1016446	0.23810962	2.5780109	21	4 25.5	21.2
314726 2006 SY_{78}	16.7	X	177.71101	60.44899	303.86550	11.59711	0.3074984	0.23292857	2.6160992	21	3 3.6	21.6
314727 2006 SD_{84}	16.7	X	42.44864	52.75777	161.86607	3.57361	0.1146217	0.24670283	2.5177926	21	6 11.3	19.4
314728 2006 SN_{84}	17.5	X	168.10222	226.57699	171.05169	3.55561	0.0904088	0.23575980	2.5951127	21	3 29.3	21.1
314729 2006 SG_{90}	17.2	X	155.36191	156.99589	204.52436	4.97443	0.2386576	0.22693384	2.6619703	21	2 11.1	21.6
314730 2006 SE_{91}	17.2	X	42.42979	308.10082	215.28147	2.50830	0.0176524	0.23401887	2.6079672	21	3 21.9	20.5
314731 2006 SB_{92}	16.4	X	94.17041	271.20175	202.33699	13.05970	0.1642485	0.23110818	2.6298189	21	4 19.4	19.7
314732 2006 SU_{96}	17.4	X	157.64233	358.93525	24.10347	5.15286	0.0656283	0.22981323	2.6396886	21	2 27.2	21.1
314733 2006 SJ_{98}	17.2	X	62.43126	293.24846	192.20980	5.47095	0.1768457	0.22706993	2.6609066	21	3 18.2	19.9
314734 2006 SY_{100}	17.3	X	113.27007	149.89555	5.13223	4.02493	0.0972817	0.24767626	2.5111913	21	6 28.6	20.7
314735 2006 SO_{101}	17.3	X	186.37723	233.83438	166.94192	2.20500	0.1610302	0.24087190	2.5582636	21	4 23.4	21.4
314736 2006 SB_{112}	16.3	X	216.23225	263.58749	118.62886	14.63889	0.1327534	0.24223363	2.5486669	21	5 4.2	20.5
314737 2006 SD_{115}	17.5	X	173.31103	237.88488	185.26443	1.25203	0.0454811	0.24178994	2.5517839	21	5 4.1	21.1
314738 2006 SV_{121}	16.9	X	139.14845	59.33502	344.51112	11.52720	0.2039214	0.23186807	2.6240700	21	3 15.7	21.0
314739 2006 SX_{122}	16.9	X	164.64020	229.15386	148.15032	13.49119	0.2125875	0.23241711	2.6199358	21	3 10.6	21.2
314740 2006 SC_{127}	16.7	X	173.64305	130.02028	258.27266	13.87777	0.3337326	0.23423972	2.6063277	21	3 28.4	21.8
314741 2006 SR_{127}	16.5	X	214.64662	223.72762	123.55634	13.72426	0.1924394	0.23641236	2.5903350	21	3 17.8	21.0
314742 2006 SX_{143}	17.5	X	152.81558	126.77979	337.06960	1.97182	0.0849539	0.24362077	2.5389833	21	6 4.9	21.2
314743 2006 SX_{147}	17.5	X	158.08165	205.33202	196.78822	2.90705	0.1859705	0.23366697	2.6105850	21	3 31.1	21.6
314744 2006 SZ_{159}	17.3	X	99.89508	317.79418	58.87995	3.03805	0.1944429	0.21809028	2.7334545	21	—	—
314745 2006 SK_{168}	16.3	X	200.62114	53.91638	285.68838	2.96108	0.0326642	0.23330341	2.6132963	21	2 16.6	19.8
314746 2006 SR_{184}	17.4	X	162.15912	327.76467	25.25541	0.58147	0.2217906	0.22737211	2.6585485	21	2 7.3	21.6
314747 2006 SE_{188}	17.2	X	66.60495	313.80051	160.90286	4.36715	0.1592647	0.22902863	2.6457138	21	3 8.6	19.9
314748 2006 SX_{197}	16.2	X	117.52558	20.70184	44.70999	15.69791	0.1721569	0.22806994	2.6531228	21	3 25.5	20.1
314749 2006 SV_{201}	17.2	X	103.37803	128.86285	21.55745	5.81183	0.0961883	0.24184124	2.5514230	21	6 8.3	20.6
314750 2006 SE_{209}	16.6	X	101.31655	54.47226	16.13887	12.77637	0.2403746	0.22663415	2.6643165	21	3 18.1	20.1
314751 2006 SF_{217}	17.0	X	162.74545	339.19321	62.35316	5.16773	0.1967388	0.23410117	2.6073560	21	4 6.5	21.2
314752 2006 SA_{239}	17.5	X	96.17830	240.47993	12.71307	3.04098	0.1523135	0.26828898	2.3808617	21	10 25.1	20.8
314753 2006 SD_{259}	17.2	X	92.50819	154.60690	323.68865	0.97035	0.0915202	0.23412310	2.6071931	21	4 10.8	20.5
314754 2006 SA_{298}	16.8	X	261.75472	289.27011	32.72986	9.61785	0.1326354	0.24171635	2.5523019	21	3 31.6	20.5
314755 2006 SS_{310}	17.2	X	59.43492	191.12386	344.38750	5.10082	0.1144326	0.24049846	2.5609112	21	5 11.8	20.2
314756 2006 SH_{319}	17.0	X	122.25528	56.27244	65.09077	4.70221	0.1297756	0.23949409	2.5680660	21	5 28.8	20.5
314757 2006 SD_{324}	16.6	X	110.56196	141.65226	50.86613	4.00254	0.2057204	0.25330771	2.4738334	21	8 28.6	20.4
314758 2006 SD_{326}	17.6	X	127.86413	20.78824	56.59793	3.26700	0.1232598	0.23252237	2.6191451	21	4 8.5	21.2
314759 2006 ST_{328}	16.9	X	40.36455	166.44694	58.65090	4.34553	0.1050241	0.24667934	2.5179525	21	6 21.6	19.7
314760 2006 SG_{329}	17.5	X	143.68918	242.54321	156.11984	2.20331	0.0850921	0.23006185	2.6377865	21	3 2.9	21.2
314761 2006 SO_{333}	17.2	X	154.93685	347.56812	86.43870	3.08580	0.0484504	0.23951715	2.5679012	21	4 27.2	20.6
314762 2006 SP_{337}	16.8	X	34.04345	64.10998	65.40228	5.75290	0.1147411	0.22570637	2.6716127	21	1 29.0	19.7
314763 2006 SE_{340}	17.0	X	156.51585	274.84423	164.11077	7.41868	0.1822657	0.23833921	2.5763551	21	5 16.2	21.2
314764 2006 SF_{340}	17.2	X	146.54468	302.23204	150.14071	5.23860	0.1786843	0.23862445	2.5743016	21	5 23.0	21.3
314765 2006 SP_{349}	15.7	X	140.06492	313.85466	60.18355	14.61456	0.1699808	0.22468896	2.6796715	21	2 12.9	20.0
314766 2006 SH_{354}	17.0	X	144.42206	315.55243	80.62449	4.31839	0.1586674	0.22909135	2.6452309	21	3 11.1	21.0
314767 2006 SY_{357}	17.2	X	105.80990	68.49038	24.32316	8.29775	0.0798621	0.22941308	2.6427572	21	3 26.9	20.8
314768 2006 SN_{360}	17.4	X	244.58159	201.26201	127.16805	1.81146	0.1222599	0.23601382	2.5932502	21	3 21.4	21.2
314769 2006 SQ_{362}	16.2	X	131.18946	7.19665	45.46248	10.00206	0.0062350	0.22771200	2.6559024	21	2 28.6	19.9
314770 2006 SW_{362}	16.8	X	72.61404	296.29708	94.85117	3.79627	0.0313144	0.21268823	2.7795452	21	—	—
314771 2006 SD_{367}	16.1	X	195.32945	92.15931	301.60263	11.66995	0.1803047	0.23761092	2.5816168	21	4 16.8	20.6
314772 2006 SB_{372}	17.1	X	115.06709	293.86803	200.92213	2.36602	0.0868924	0.24387099	2.5372463	21	6 1.8	20.5
314773 2006 SC_{379}	16.4	X	44.13644	76.64294	82.26222	16.11700	0.0855432	0.23047562	2.6346285	21	4 2.9	19.9
314774 2006 SE_{390}	16.5	X	139.56382	267.94363	95.06548	13.36709	0.1918518	0.22243235	2.6977648	21	1 28.4	20.6
314775 2006 SO_{390}	16.5	X	292.59044	161.75470	102.24793	14.47722	0.0736320	0.23099793	2.6306556	21	3 5.2	20.3
314776 2006 SR_{390}	17.2	X	118.93583	48.80682	3.53096	1.94660	0.2077816	0.22842324	2.6503864	21	3 7.9	20.8
314777 2006 SM_{391}	16.7	X	109.94947	88.56918	13.44334	12.96714	0.1305515	0.23389827	2.6088636	21	4 16.6	20.2
314778 2006 SF_{397}	17.5	X	47.31876	127.58891	152.36674	3.71650	0.1209104	0.25901317	2.4373701	21	9 26.3	20.2
314779 2006 SA_{398}	17.0	X	86.30326	57.56527	16.20663	2.93748	0.0895350	0.22279286	2.6948538	21	2 5.2	20.2
314780 2006 SZ_{401}	17.1	X	95.74007	280.67030	213.19471	8.07993	0.1136728	0.23792971	2.5793103	21	5 10.7	20.4
314781 2006 SJ_{402}	17.3	X	177.79122	237.46336	193.05701	3.42897	0.0332762	0.24224625	2.5485785	21	5 19.4	20.7
314782 2006 SH_{413}	16.3	X	119.54382	281.95826	144.16001	10.42972	0.2059587	0.22721596	2.6597664	21	3 28.7	20.2
314783 2006 TM_{14}	16.9	X	166.34847	254.33604	106.06722	7.51369	0.2297510	0.22871414	2.6481386	21	2 21.8	21.3
314784 2006 TC_{17}	17.1	X	121.21776	10.52445	45.55856	2.77190	0.1979824	0.22697299	2.6616642	21	3 15.0	20.9
314785 2006 TM_{17}	16.5	X	162.53059	322.40656	35.89430	4.23558	0.1327923	0.22654218	2.6650376	21	2 8.5	20.5
314786 2006 TU_{17}	17.0	X	97.35964	321.10211	53.60326	4.51325	0.1295369	0.21669470	2.7451781	21	—	—
314787 2006 TF_{18}	16.1	X	23.67888	260.74875	202.40667	20.67231	0.1533862	0.21603174	2.7507915	21	—	—
314788 2006 TO_{18}	17.1	X	138.12075	35.61436	46.02057	3.58271	0.1390784	0.23435914	2.6054422	21	4 26.3	20.7
314789 2006 TH_{19}	16.8	X	128.10733	145.73910	228.06406	4.48704	0.0742174	0.22134148	2.7066214	21	1 11.3	20.5
314790 2006 TT_{20}	17.3	X	50.55763	226.24290	203.21494	3.13583	0.1639086	0.21498524	2.7597111	21	—	—
314791 2006 TJ_{35}	16.9	X	116.71500	133.85862	238.32977	3.68346	0.1250412	0.21897088	2.7261210	21	1 3.4	20.6
314792 2006 TD_{36}	16.9	X	103.08214	203.20362	239.32851	2.85648	0.1216841	0.22678345	2.6631470	21	3 13.3	20.4
314793 2006 TW_{37}	17.1	X	148.60448	179.27586	227.05713	0.66754	0.0560323	0.23000985	2.6381841	21	3 14.7	20.8
314794 2006 TP_{38}	16.7	X	107.88597	77.91020	34.91656	4.50526	0.1371045	0.23213995	2.6220207	21	5 1.3	20.2
314795 2006 TN_{42}	16.2	X	55.61597	214.21139	222.28939	13.09410	0.1147011	0.21656865	2.7462432	21	—	—
314796 2006 TZ_{45}	17.1	X	95.10903	251.57525	195.77442	2.80614	0.0821218	0.22592578	2.6698827	21	3 3.7	20.6
314797 2006 TX_{46}	16.2	X	63.86694	207.66951	215.78112	12.68240	0.1463349	0.21607988	2.7503829	21	—	—
314798 2006 TC_{50}	17.1	X	151.64149	63.30552	341.19655	3.78562	0.2002600	0.23046208	2.6347317	21	3 28.7	21.2
314799 2006 TT_{52}	16.5	X	14.23677	42.88972	63.88318	4.98599	0.1671972	0.21210103	2.7846729	21	—	—
314800 2006 TF_{62}	16.6	X	136.55377	274.35273	137.16665	12.96328	0.1631074	0.23128122	2.6285070	21	3 23.8	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314801 2006 TC_{72}	16.3	X	103.16543	83.83412	341.45731	11.58194	0.1625648	0.22500017	2.6772000	21	2 27.4	19.6
314802 2006 TQ_{76}	16.4	X	264.16761	343.17931	2.25797	15.07991	0.1233892	0.24295945	2.5435885	21	4 26.6	20.2
314803 2006 TE_{82}	16.7	X	114.31933	82.94909	333.63876	4.18302	0.0980567	0.22554267	2.6729053	21	2 20.6	20.2
314804 2006 TS_{93}	17.1	X	122.05686	184.11288	261.45937	1.84794	0.0821981	0.23217504	2.6217566	21	4 4.6	20.8
314805 2006 TP_{94}	16.7	X	156.78613	336.52099	60.27422	6.37419	0.1951615	0.22999156	2.6383239	21	3 27.5	21.0
314806 2006 TJ_{95}	16.0	X	173.30627	222.12117	147.97945	29.49766	0.2277444	0.23150846	2.6267867	21	3 10.4	20.6
314807 2006 TL_{100}	16.7	X	93.27606	167.40039	328.46031	2.93638	0.1533359	0.23404937	2.6077407	21	5 14.9	20.2
314808 Martindutertre	15.8	X	242.71199	316.47103	13.10298	14.53834	0.1221547	0.23538850	2.5978409	21	3 22.5	19.7
314809 2006 UL_{2}	16.8	X	35.04332	80.23344	33.34999	8.84391	0.1520635	0.22110672	2.7085369	21	1 9.5	19.7
314810 2006 UK_{6}	16.7	X	142.76676	354.36579	66.24558	4.93621	0.0811755	0.23158281	2.6262244	21	3 31.5	20.4
314811 2006 UD_{13}	17.2	X	99.05520	291.19673	132.66646	3.26615	0.0812022	0.22340027	2.6899668	21	2 7.8	20.5
314812 2006 UW_{13}	17.0	X	316.81722	178.80511	60.22030	6.67292	0.0401312	0.22972071	2.6403973	21	3 7.5	20.5
314813 2006 UY_{26}	17.1	X	15.70331	233.27479	1.33169	2.09553	0.0804387	0.24220487	2.5488687	21	5 20.9	19.9
314814 2006 US_{32}	17.5	X	102.37719	350.77746	56.52815	1.75735	0.0868154	0.22191764	2.7019346	21	1 23.6	21.0
314815 2006 UM_{42}	16.9	X	55.62035	70.35396	48.10946	9.70526	0.1340415	0.22262013	2.6962475	21	2 26.2	20.1
314816 2006 UF_{43}	16.5	X	229.96709	262.01020	48.16963	12.65712	0.1283635	0.22919806	2.6444098	21	2 18.5	20.9
314817 2006 UL_{45}	16.8	X	125.14461	324.58344	69.95041	4.20219	0.2306560	0.22323349	2.6913064	21	2 25.9	20.8
314818 2006 UR_{45}	17.3	X	52.17688	233.59319	194.90249	3.30073	0.0830888	0.21388198	2.7691931	21	—	—
314819 2006 UN_{46}	16.9	X	80.32484	61.89576	63.65029	7.48609	0.0531635	0.22975357	2.6401456	21	4 2.4	20.3
314820 2006 UK_{47}	17.0	X	113.05050	245.50866	305.50584	1.26004	0.1434508	0.25387851	2.4701240	21	8 21.1	20.6
314821 2006 UT_{50}	17.1	X	76.77458	198.13947	264.04426	3.84419	0.1787546	0.22562477	2.6722568	21	3 9.5	20.1
314822 2006 UE_{69}	16.0	X	117.25522	234.89136	193.76033	12.85911	0.1328565	0.22739896	2.6583392	21	3 14.7	19.8
314823 2006 UG_{69}	16.8	X	79.84620	303.42127	123.50109	4.56049	0.2264823	0.21955857	2.7212543	21	2 6.1	19.6
314824 2006 UW_{70}	16.5	X	166.88107	282.57743	61.85293	13.38832	0.2396296	0.22536074	2.6743436	21	2 6.8	21.2
314825 2006 UJ_{77}	16.8	X	98.47384	75.06416	6.16997	7.70687	0.1945986	0.22578170	2.6710184	21	3 18.9	20.1
314826 2006 UZ_{78}	17.2	X	237.08769	54.79307	286.60777	2.77529	0.1134219	0.23767109	2.5811811	21	3 28.1	21.0
314827 2006 UN_{84}	16.7	X	169.38886	336.80235	52.89437	2.85304	0.0990206	0.23005517	2.6378376	21	3 22.6	20.6
314828 2006 UT_{101}	17.3	X	93.26886	317.66126	104.69300	4.32138	0.0780527	0.22231171	2.6987407	21	1 29.2	20.6
314829 2006 UY_{101}	17.0	X	246.40409	198.39460	173.91875	6.19707	0.0838845	0.24305312	2.5429349	21	5 23.0	20.6
314830 2006 US_{103}	16.9	X	83.17809	10.04805	63.06437	5.94250	0.0252839	0.22198455	2.7013916	21	1 23.6	20.5
314831 2006 UR_{104}	17.1	X	23.91180	171.61887	81.46516	4.24903	0.0466958	0.24480894	2.5307614	21	6 29.8	20.0
314832 2006 UH_{106}	16.4	X	262.22670	147.86230	73.81437	7.04946	0.0128098	0.21600300	2.7510355	21	—	—
314833 2006 UK_{107}	16.7	X	274.93181	248.68475	81.72805	4.76161	0.0760112	0.24055233	2.5605288	21	5 3.5	20.2
314834 2006 UQ_{107}	16.2	X	173.15771	302.40414	54.32205	15.31873	0.1256763	0.22628333	2.6670695	21	2 22.5	20.6
314835 2006 UQ_{129}	17.4	X	90.64050	241.81482	234.71038	2.65151	0.1408267	0.23032499	2.6357770	21	4 13.7	20.8
314836 2006 UK_{131}	16.9	X	45.32970	102.36480	26.79233	11.70822	0.2033061	0.22277820	2.6949720	21	2 28.2	19.6
314837 2006 UQ_{136}	16.7	X	77.80274	235.09811	285.16954	3.81360	0.1856678	0.23371876	2.6101993	21	6 1.9	20.0
314838 2006 UZ_{165}	17.1	X	118.40784	345.05588	74.95764	4.70036	0.1398145	0.22733205	2.6588608	21	3 10.3	20.7
314839 2006 UE_{167}	17.2	X	97.66826	80.08930	104.24447	4.14780	0.1275812	0.24648882	2.5192498	21	7 23.4	20.7
314840 2006 UL_{168}	17.0	X	96.25135	9.58259	83.96157	3.54895	0.1320329	0.22864468	2.6486749	21	3 23.4	20.4
314841 2006 UG_{178}	15.7	X	66.60989	61.57389	42.66897	22.62525	0.0162243	0.22703620	2.6611702	21	2 19.6	19.8
314842 2006 UT_{178}	16.7	X	94.07291	278.25228	172.46588	8.93557	0.1651716	0.22659285	2.6646402	21	3 20.5	20.0
314843 2006 UT_{181}	16.5	X	117.01421	1.74975	116.59956	8.70217	0.1525106	0.23439832	2.6051519	21	5 24.1	20.4
314844 2006 UT_{183}	16.6	X	212.10884	280.70897	112.95309	9.64239	0.1608763	0.23991803	2.5650399	21	5 11.1	20.8
314845 2006 UP_{184}	16.6	X	165.36666	289.54861	92.72363	14.76607	0.1966646	0.23073188	2.6326774	21	3 22.2	21.2
314846 2006 UE_{187}	16.8	X	170.09373	85.86176	291.61709	10.58001	0.1860210	0.23225769	2.6211345	21	3 7.0	21.2
314847 2006 UP_{187}	16.6	X	159.67497	130.61336	264.44268	11.75375	0.1691924	0.23252989	2.6190886	21	3 16.9	21.1
314848 2006 UQ_{192}	16.1	X	119.10686	162.15110	238.79476	13.13390	0.1529528	0.22392155	2.6857904	21	2 9.1	20.1
314849 2006 UC_{193}	15.6	X	75.84996	130.60219	12.46241	13.17865	0.1760789	0.23103532	2.6303718	21	4 30.7	18.9
314850 2006 UL_{197}	17.0	X	119.92850	14.66071	46.24233	3.71744	0.0995724	0.22625138	2.6673207	21	3 7.0	20.6
314851 2006 UZ_{199}	17.4	X	65.85548	142.21007	257.02646	0.15629	0.2656551	0.21464205	2.7626520	21	—	—
314852 2006 UT_{200}	16.3	X	173.67824	167.40791	227.73506	13.13905	0.2078636	0.23348362	2.6119515	21	4 3.9	20.9
314853 2006 UH_{216}	17.0	X	146.98918	212.77602	172.34480	5.24884	0.1947233	0.22680093	2.6630102	21	3 1.2	21.1
314854 2006 UE_{229}	16.4	X	55.61442	7.59494	88.28432	4.62089	0.1636495	0.21729470	2.7401224	21	1 25.4	19.3
314855 2006 UM_{231}	17.2	X	178.02770	270.77252	128.76159	3.62175	0.1300433	0.23651068	2.5896170	21	4 14.3	21.2
314856 2006 UG_{232}	17.0	X	113.00617	277.13201	173.64914	11.91056	0.2212727	0.23048039	2.6345921	21	4 22.9	20.9
314857 2006 UK_{233}	17.0	X	172.33454	213.04158	153.79910	3.06283	0.2220648	0.22961795	2.6411850	21	3 3.8	21.4
314858 2006 UG_{237}	16.7	X	103.65040	349.85577	68.15188	3.23339	0.1251824	0.22425454	2.6831311	21	2 14.1	20.2
314859 2006 US_{239}	17.4	X	48.75654	130.40758	20.17786	4.50259	0.0736589	0.22995770	2.6385829	21	3 19.9	20.4
314860 2006 UH_{244}	17.2	X	14.80346	44.12175	207.64571	3.16761	0.0562301	0.24613426	2.5216686	21	6 13.7	20.2
314861 2006 UJ_{248}	17.0	X	38.21265	351.79686	206.57502	4.95687	0.1208211	0.23830901	2.5765727	21	5 11.7	19.7
314862 2006 UV_{252}	17.4	X	74.41105	234.14682	213.49058	2.75907	0.0520946	0.22363749	2.6880643	21	1 30.5	20.8
314863 2006 UX_{252}	17.1	X	51.92204	141.54138	40.74448	5.26688	0.1035214	0.23660900	2.5888996	21	5 9.5	19.9
314864 2006 UV_{253}	16.2	X	95.93624	11.45791	23.75115	14.59439	0.1884320	0.21732801	2.7398424	21	1 18.8	19.9
314865 2006 UQ_{259}	17.0	X	2.38938	142.17574	45.37182	3.18584	0.1263331	0.22878509	2.6475911	21	2 21.4	19.9
314866 2006 UD_{265}	16.8	X	259.15231	316.25927	11.32116	8.58825	0.1089796	0.23895440	2.5719313	21	4 4.8	20.6
314867 2006 UF_{270}	17.2	X	92.81135	248.58262	215.99723	0.87413	0.1015542	0.22760261	2.6567533	21	3 26.4	20.7
314868 2006 UC_{274}	16.2	X	81.19260	96.14850	45.40708	14.64006	0.1009560	0.23091434	2.6312904	21	4 29.7	19.4
314869 2006 UM_{278}	16.5	X	345.04425	11.92387	244.40991	3.55393	0.1059020	0.24112523	2.5564714	21	4 27.6	19.2
314870 2006 UD_{280}	17.4	X	160.62462	334.16584	60.93284	2.95479	0.0901175	0.22988334	2.6391519	21	3 19.5	21.2
314871 2006 UH_{288}	16.6	X	102.71271	47.90517	340.97748	8.23254	0.1871865	0.21809243	2.7334365	21	1 17.7	20.1
314872 2006 UH_{328}	15.8	X	205.20713	267.83665	90.53948	15.00746	0.1245376	0.23267215	2.6180209	21	3 27.3	20.2
314873 2006 UX_{334}	17.2	X	52.44408	192.69357	301.76272	1.30656	0.1487518	0.22388232	2.6861042	21	3 9.9	19.9
314874 2006 VE_{4}	16.2	X	95.40961	18.85834	34.55897	5.24164	0.0496567	0.22004845	2.7172140	21	1 18.1	19.7
314875 2006 VA_{8}	16.3	X	83.56852	24.34730	54.00933	15.08483	0.1471654	0.22004453	2.7172463	21	2 22.9	19.9
314876 2006 VB_{15}	17.1	X	255.61533	313.97642	3.23873	2.64037	0.0567122	0.23328913	2.6134029	21	3 24.8	20.8
314877 2006 VC_{20}	16.9	X	78.86181	167.07876	237.52411	7.84723	0.1579016	0.21551845	2.7551574	21	—	—
314878 2006 VL_{22}	16.7	X	83.68306	59.02280	59.09281	5.35310	0.1319944	0.22712796	2.6604534	21	4 7.7	19.9
314879 2006 VC_{23}	17.1	X	159.53137	293.04357	76.93040	2.28661	0.1110127	0.22487120	2.6782235	21	2 17.2	21.0
314880 2006 VA_{29}	16.6	X	62.77289	9.82148	43.00884	8.36017	0.1650143	0.21249549	2.7812258	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314881 2006 VE_{33}	16.1	X	105.52162	34.35001	32.28069	4.78551	0.0627419	0.22437873	2.6821409	21	2 19.2	19.6
314882 2006 VV_{37}	15.9	X	95.83195	332.22202	72.12926	14.50474	0.2071268	0.21932025	2.7232252	21	2 1.4	19.5
314883 2006 VZ_{38}	16.9	X	337.42894	148.50874	251.45849	0.84229	0.0962913	0.19595264	2.9356344	21	11 3.9	20.3
314884 2006 VU_{46}	17.2	X	128.79570	118.84702	257.94470	2.87726	0.2304060	0.22186386	2.7023712	21	2 5.2	21.1
314885 2006 VJ_{47}	17.1	X	153.98009	333.60158	33.76730	6.81818	0.0552315	0.22325575	2.6911275	21	2 3.9	21.0
314886 2006 VL_{47}	17.4	X	55.95953	240.75260	257.60523	3.21189	0.1290589	0.22634727	2.6665673	21	3 17.8	20.3
314887 2006 VX_{47}	17.8	X	120.55370	179.48921	244.07147	1.74728	0.1352316	0.22894984	2.6463208	21	3 13.1	21.5
314888 2006 VR_{51}	16.2	X	260.20346	54.37398	251.30031	23.18904	0.0788003	0.22882689	2.6472686	21	3 2.1	20.7
314889 2006 VQ_{53}	17.0	X	63.14763	159.59566	305.59341	3.85982	0.0679501	0.22201143	2.7011736	21	2 8.6	20.2
314890 2006 VP_{59}	17.3	X	68.36673	174.62838	216.88970	6.17386	0.2572065	0.21176907	2.7875823	21	—	—
314891 2006 VE_{60}	17.0	X	45.11974	33.13821	96.11435	3.83117	0.0509143	0.22297752	2.6933657	21	2 14.2	20.4
314892 2006 VU_{65}	16.5	X	30.43653	247.32460	235.11765	10.14643	0.1140240	0.21707499	2.7419710	21	1 11.6	19.8
314893 2006 VK_{69}	17.3	X	120.80965	344.08313	76.66463	2.73878	0.0543894	0.22335693	2.6903148	21	3 1.5	20.9
314894 2006 VL_{70}	16.9	X	37.62810	220.54424	230.06349	3.55646	0.0784058	0.21323919	2.7747554	21	—	—
314895 2006 VN_{71}	17.3	X	90.91283	8.48212	73.30819	3.22182	0.0460758	0.22321282	2.6914726	21	2 16.3	20.7
314896 2006 VE_{77}	16.4	X	56.17885	40.77131	64.82895	13.52095	0.1397988	0.21983514	2.7189714	21	2 10.8	19.7
314897 2006 VB_{79}	17.1	X	231.39374	126.82749	175.45324	2.10961	0.0531123	0.22399574	2.6851973	21	2 7.3	20.9
314898 2006 VJ_{83}	17.3	X	79.19689	123.20343	1.24012	1.95026	0.0564181	0.22920809	2.6443327	21	3 26.9	20.7
314899 2006 VZ_{83}	17.4	X	187.80771	4.81359	37.71725	1.75412	0.1357061	0.23786873	2.5797511	21	4 26.1	21.2
314900 2006 VB_{89}	15.9	X	30.04779	306.03429	95.41512	10.37410	0.1353297	0.20481274	2.8503492	21	—	—
314901 2006 VT_{93}	16.8	X	1.16381	357.18292	184.77073	4.03465	0.1119531	0.22390758	2.6859021	21	2 11.5	20.0
314902 2006 VA_{95}	16.9	X	141.20455	356.52509	25.84841	6.69088	0.0782995	0.22522776	2.6753962	21	2 10.2	20.7
314903 2006 VP_{102}	16.3	X	286.21464	220.07900	71.82752	14.91107	0.1840694	0.23512835	2.5997567	21	3 21.0	20.4
314904 2006 VV_{102}	16.4	X	73.49520	6.32435	78.72029	9.35180	0.2006479	0.21832955	2.7314570	21	2 19.9	19.5
314905 2006 VN_{106}	16.4	X	156.80460	273.27431	107.24029	9.96086	0.1256081	0.22692019	2.6620771	21	3 2.8	20.5
314906 2006 VY_{116}	16.6	X	315.46337	251.46332	37.85623	3.37448	0.1753968	0.24026862	2.5625441	21	4 16.5	19.4
314907 2006 VB_{117}	17.2	X	281.74905	264.43054	346.33211	1.41115	0.0344301	0.22363593	2.6880767	21	2 4.4	21.0
314908 2006 VQ_{119}	16.9	X	178.59822	337.28713	61.22904	4.45270	0.1626873	0.23276004	2.6173618	21	4 14.8	21.2
314909 2006 VR_{119}	17.0	X	43.16009	34.60173	72.04241	3.63816	0.1288767	0.21693747	2.7431296	21	1 15.3	20.1
314910 2006 VX_{139}	16.9	X	93.61416	292.16921	69.06883	9.20736	0.2983523	0.21215756	2.7841782	21	—	—
314911 2006 VZ_{144}	16.2	X	25.73031	239.36128	261.16180	13.06720	0.1428381	0.21995859	2.7179540	21	1 24.3	19.4
314912 2006 VQ_{145}	16.4	X	83.79686	98.04691	296.00611	8.50294	0.2608243	0.21577698	2.7529563	21	1 6.1	19.1
314913 2006 VB_{152}	16.4	X	137.98278	304.92384	69.21292	6.99193	0.0578900	0.22158194	2.7046629	21	1 23.8	20.2
314914 2006 VT_{154}	16.7	X	171.50432	209.06420	141.10746	7.63703	0.2641762	0.22750556	2.6575088	21	2 14.1	21.4
314915 2006 VS_{170}	16.0	X	284.15333	130.90358	327.92729	5.55668	0.1173519	0.18511848	3.0490850	21	10 22.8	20.2
314916 2006 WC_{9}	16.1	X	156.54768	278.48145	78.23986	17.09099	0.0737403	0.22018645	2.7160785	21	1 27.2	20.2
314917 2006 WR_{12}	17.1	X	26.34791	267.41914	207.35240	4.49796	0.1176779	0.21417069	2.7667040	21	—	—
314918 2006 WB_{16}	17.1	X	72.30147	113.78680	357.95545	4.48905	0.1261243	0.22384829	2.6863764	21	3 10.6	20.1
314919 2006 WP_{19}	17.1	X	32.93440	223.22185	315.23408	3.67193	0.1720454	0.23061731	2.6335493	21	4 3.5	19.7
314920 2006 WR_{24}	17.2	X	113.39088	210.28979	210.32444	5.98099	0.0169914	0.22184609	2.7025155	21	2 11.0	21.0
314921 2006 WN_{25}	16.1	X	308.05423	179.20912	92.53255	8.72082	0.0853176	0.23182740	2.6243769	21	4 1.9	19.6
314922 2006 WE_{29}	16.2	X	337.30838	266.06454	324.22993	13.73229	0.0752636	0.23182298	2.6244103	21	3 10.7	19.6
314923 2006 WX_{31}	16.6	X	133.00940	48.66194	314.62782	10.28211	0.1953239	0.22181017	2.7028073	21	1 21.9	20.5
314924 2006 WM_{33}	17.1	X	262.65618	205.71488	125.48775	3.32506	0.0650887	0.23646493	2.5899511	21	4 21.0	20.6
314925 2006 WW_{38}	17.0	X	39.79272	20.79754	88.26043	4.69054	0.1261032	0.21626999	2.7487709	21	1 12.5	20.0
314926 2006 WJ_{41}	16.9	X	155.17964	221.69625	175.19176	5.49361	0.0801713	0.22672578	2.6635986	21	3 13.6	20.7
314927 2006 WT_{48}	16.5	X	93.35821	300.52657	85.59616	6.56994	0.0754499	0.21329283	2.7742901	21	—	—
314928 2006 WX_{49}	16.6	X	97.98488	324.49478	61.52429	4.58592	0.1140561	0.21383336	2.7696129	21	—	—
314929 2006 WC_{53}	15.9	X	215.23446	248.49175	118.82476	15.50118	0.1609992	0.23563102	2.5960581	21	4 15.0	20.4
314930 2006 WN_{53}	16.4	X	111.62013	263.71755	145.37771	12.25801	0.1959445	0.22207218	2.7006809	21	2 23.0	20.1
314931 2006 WZ_{53}	16.1	X	69.50658	16.78662	60.25584	11.43021	0.0149437	0.21619556	2.7494017	21	1 10.6	19.9
314932 2006 WL_{54}	16.9	X	72.70617	42.32806	30.70852	2.28263	0.0583517	0.21591446	2.7517876	21	1 13.2	20.4
314933 2006 WY_{65}	16.2	X	356.34647	150.43917	280.77500	7.21368	0.0431723	0.20077666	2.8884215	21	—	—
314934 2006 WX_{66}	16.8	X	177.76444	252.04556	99.05589	7.10814	0.1051055	0.22303283	2.6929204	21	2 13.7	20.9
314935 2006 WP_{68}	16.4	X	55.17986	349.28487	91.42486	9.55686	0.2081277	0.21405297	2.7677183	21	1 7.3	18.9
314936 2006 WD_{83}	16.9	X	205.92890	221.57855	99.78570	6.97656	0.0332642	0.22093557	2.7099355	21	2 4.4	20.8
314937 2006 WL_{93}	16.5	X	44.41295	304.60611	236.88924	13.43853	0.0872552	0.23125014	2.6287425	21	4 23.0	19.7
314938 2006 WY_{97}	16.7	X	18.85812	92.18358	66.93144	9.57583	0.1952596	0.21930717	2.7233335	21	2 12.1	19.4
314939 2006 WG_{98}	16.6	X	2.70453	358.03101	73.57321	3.15513	0.0659731	0.20379864	2.8597969	21	—	—
314940 2006 WY_{99}	16.0	X	52.60772	55.12955	64.19627	15.07696	0.0420416	0.22494941	2.6776027	21	2 16.5	19.7
314941 2006 WM_{100}	16.5	X	61.50431	339.89362	149.67494	5.82464	0.2082388	0.22452194	2.6810002	21	3 30.2	19.2
314942 2006 WQ_{101}	16.2	X	87.99797	335.95822	71.14168	15.28436	0.1641997	0.21836060	2.7311981	21	1 15.5	19.6
314943 2006 WC_{102}	16.5	X	204.62413	243.64182	82.46139	15.55112	0.2444763	0.22921671	2.6442664	21	2 13.9	21.4
314944 2006 WA_{103}	16.5	X	138.36614	282.76993	72.08378	7.13121	0.0337830	0.21512846	2.7584861	21	—	—
314945 2006 WO_{108}	16.8	X	36.39500	36.69121	73.66555	6.01187	0.1152197	0.21502661	2.7593571	21	1 8.9	19.8
314946 2006 WQ_{109}	16.8	X	49.59094	182.22122	232.62608	0.83487	0.0711160	0.20842370	2.8173317	21	—	—
314947 2006 WV_{111}	16.3	X	42.52453	305.55118	138.51590	11.00235	0.3327235	0.21215312	2.7842171	21	—	—
314948 2006 WJ_{113}	15.8	X	304.96917	129.81218	327.25454	16.72554	0.2833381	0.18859159	3.0115344	21	10 25.3	19.3
314949 2006 WA_{114}	16.9	X	259.39184	175.67909	163.26458	4.58279	0.1294020	0.23742316	2.5829777	21	4 19.5	20.6
314950 2006 WD_{116}	16.0	X	77.16705	342.79430	79.53908	15.16452	0.1751790	0.21559423	2.7545117	21	1 20.9	19.3
314951 2006 WK_{122}	16.3	X	46.43623	8.83739	129.91316	7.34059	0.0156269	0.22433833	2.6824629	21	2 26.8	19.7
314952 2006 WF_{132}	17.5	X	28.99354	130.08503	27.09886	2.35800	0.1290301	0.22394523	2.6856011	21	2 27.0	20.2
314953 2006 WS_{133}	16.8	X	300.87268	320.38032	326.34723	4.31005	0.1793050	0.24081335	2.5586782	21	3 21.2	20.2
314954 2006 WJ_{134}	17.5	X	105.64064	51.87980	7.59701	6.02419	0.0617897	0.22401360	2.6850546	21	2 10.1	21.0
314955 2006 WP_{143}	16.6	X	244.50509	234.76371	86.16233	4.53790	0.2321509	0.23331829	2.6131852	21	3 7.3	21.0
314956 2006 WG_{148}	14.8	X	212.03489	222.85750	247.18600	26.18581	0.1610615	0.17827822	3.1265871	21	7 31.5	20.4
314957 2006 WN_{162}	17.4	X	110.74870	248.19764	190.08129	1.41784	0.0802271	0.22569860	2.6716740	21	3 12.9	20.9
314958 2006 WW_{165}	17.1	X	76.26786	157.25434	246.93196	7.34630	0.1413209	0.21379910	2.7699088	21	—	—
314959 2006 WV_{170}	16.6	X	355.61837	323.80841	238.14250	5.44531	0.2241764	0.22277731	2.6949792	21	2 13.9	19.5
314960 2006 WG_{174}	17.1	X	70.82158	205.71663	219.75991	2.80005	0.0808741	0.21472714	2.7619221	21	1 2.4	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
314961 2006 WB_{189}	16.4	X	14.76933	89.29656	87.45306	7.12919	0.0571946	0.22374522	2.6872014	21	3 6.5	19.8
314962 2006 WC_{190}	16.7	X	57.12776	306.72778	109.12428	9.02947	0.2182140	0.21201474	2.7854284	21	—	—
314963 2006 WP_{191}	16.6	X	132.97223	289.00446	66.04617	8.60577	0.2691808	0.21871044	2.7282848	21	1 21.7	20.8
314964 2006 WF_{192}	16.3	X	289.71564	256.35367	76.09322	4.20221	0.1789059	0.24218894	2.5489805	21	5 9.3	19.6
314965 2006 WO_{192}	17.3	X	136.47348	237.17550	119.46835	0.71187	0.0834354	0.21551789	2.7551622	21	1 3.6	21.2
314966 2006 WC_{198}	16.3	X	272.08220	171.96657	292.42753	7.89312	0.0995401	0.18680833	3.0306694	21	10 14.6	20.5
314967 2006 WV_{202}	16.2	X	55.63059	263.79116	113.64021	13.03413	0.0719375	0.19733341	2.9219243	21	—	—
314968 2006 XE	16.5	X	140.52611	287.50936	77.64432	8.38936	0.0796253	0.21907379	2.7252673	21	1 18.6	20.3
314969 2006 XZ_{1}	16.0	X	147.36124	155.26351	270.20820	32.46606	0.1878206	0.23351593	2.6117105	21	4 8.4	20.8
314970 2006 XR_{8}	15.4	X	219.44343	357.23543	90.39603	18.72394	0.1937422	0.17683455	3.1435809	21	7 20.6	20.6
314971 2006 XG_{10}	15.8	X	348.28096	116.50578	89.96262	14.83908	0.1105519	0.22034633	2.7147646	21	3 4.9	19.3
314972 2006 XB_{11}	15.7	X	351.17711	300.16419	87.48560	10.25846	0.1088874	0.19081645	2.9880796	21	11 12.4	19.4
314973 2006 XW_{12}	16.9	X	350.00190	118.29449	70.76258	5.91356	0.0529428	0.22089080	2.7103017	21	2 14.6	20.5
314974 2006 XL_{13}	17.4	X	161.19855	74.63158	328.96494	0.66211	0.0964388	0.22790149	2.6544300	21	3 29.9	21.2
314975 2006 XL_{15}	16.2	X	100.31536	310.43000	96.91979	6.12207	0.0606054	0.21475143	2.7617138	21	1 18.7	19.7
314976 2006 XL_{17}	16.7	X	118.66770	91.88326	315.91163	6.74044	0.1418614	0.21743568	2.7389378	21	2 21.3	20.5
314977 2006 XT_{19}	15.7	X	180.50984	249.52916	106.91846	7.57064	0.0768561	0.21968541	2.7202067	21	2 22.2	19.8
314978 2006 XO_{21}	17.1	X	340.65376	254.23682	245.36647	2.39869	0.1376212	0.20837578	2.8177636	21	—	—
314979 2006 XU_{30}	15.9	X	198.75936	211.06161	246.40415	8.53758	0.0576521	0.17580764	3.1558103	21	7 17.3	20.7
314980 2006 XV_{35}	16.3	X	308.02535	90.01474	110.83622	4.90804	0.0371180	0.21217961	2.7839854	21	1 7.0	19.9
314981 2006 XX_{39}	16.0	X	185.09032	204.90499	132.59030	16.07036	0.2919979	0.22749900	2.6575598	21	2 10.7	20.8
314982 2006 XS_{41}	16.4	X	326.95464	83.15706	106.80425	5.91087	0.0623447	0.21207226	2.7849248	21	1 13.9	20.2
314983 2006 XL_{42}	16.2	X	32.56296	220.04712	258.10781	11.66028	0.1139010	0.21628943	2.7486062	21	1 10.1	19.4
314984 2006 XD_{43}	16.9	X	336.13102	298.11060	128.27376	2.06935	0.1463325	0.19291964	2.9663228	21	12 6.9	20.1
314985 2006 XE_{46}	16.6	X	47.48342	2.77130	79.99466	4.68799	0.0714919	0.21308982	2.7760519	21	—	—
314986 2006 XX_{46}	16.6	X	126.87735	103.09114	306.83183	3.69006	0.1655227	0.22324845	2.6911862	21	3 7.4	20.4
314987 2006 XR_{62}	16.1	X	315.22231	266.30063	292.63834	7.36801	0.0390874	0.21176827	2.7875893	21	1 13.4	19.9
314988 Sireland	15.9	X	119.67155	93.39567	190.62767	9.88081	0.0910451	0.18531819	3.0468940	21	12 10.6	20.7
314989 2006 XR_{70}	16.2	X	93.64182	28.53858	334.11702	5.52296	0.0740059	0.20350466	2.8625504	21	—	—
314990 2006 YW_{4}	16.7	X	67.31574	349.59130	94.98304	4.70806	0.1719882	0.21793692	2.7347367	21	2 1.3	19.6
314991 2006 YE_{8}	16.4	X	330.83881	242.40653	302.89552	5.26997	0.0301519	0.21064397	2.7974996	21	1 17.9	20.0
314992 2006 YX_{11}	16.5	X	42.45428	176.03926	320.93442	5.40231	0.0818100	0.22111466	2.7084720	21	2 20.2	19.7
314993 2006 YW_{15}	15.3	X	328.44528	188.32892	321.16678	13.38845	0.1523023	0.20467857	2.8515947	21	—	—
314994 2006 YD_{23}	17.1	X	313.82769	226.31015	331.71601	2.68036	0.0349134	0.21263338	2.7800232	21	1 11.3	20.9
314995 2006 YW_{41}	16.7	X	14.21925	346.00414	99.46176	6.17099	0.0972927	0.20418987	2.8561428	21	—	—
314996 2006 YG_{53}	16.0	X	190.43585	120.77385	144.67667	6.37492	0.0170729	0.19931871	2.9024896	21	—	—
314997 2007 AB_{3}	17.0	X	135.64861	352.89491	47.95302	3.28047	0.1454193	0.22221451	2.6995276	21	3 6.3	21.0
314998 2007 AP_{6}	17.3	X	152.94548	216.64208	318.29457	17.32038	0.0617594	0.37748371	1.8961407	21	9 11.0	19.7
314999 2007 AO_{7}	16.2	X	160.14254	0.23047	279.95288	8.45981	0.0473402	0.19753437	2.9199423	21	—	—
315000 2007 AY_{19}	17.3	X	322.37895	19.97685	126.30353	20.81581	0.1005101	0.40461621	1.8103972	21	—	—
315001 2007 AD_{25}	16.4	X	284.92953	217.82885	277.86988	12.17475	0.1834962	0.19284496	2.9670886	21	12 4.5	20.0
315002 2007 AP_{27}	16.7	X	274.37341	137.33172	126.37345	7.49933	0.0299488	0.21584307	2.7523942	21	2 14.1	20.6
315003 2007 AS_{27}	15.7	X	306.05693	122.45274	106.45328	15.38865	0.0474900	0.21255897	2.7806719	21	2 9.1	19.6
315004 2007 AE_{28}	15.8	X	26.16412	54.73354	299.22314	8.36536	0.0970189	0.18740279	3.0242569	21	11 15.1	19.9
315005 2007 BE	17.4	X	118.98553	140.88100	104.22053	24.22347	0.0247199	0.38667727	1.8659655	21	11 28.9	19.7
315006 2007 BA_{1}	17.0	X	20.90414	221.81468	224.59553	1.93945	0.0808113	0.20396774	2.8582161	21	—	—
315007 2007 BE_{8}	16.5	X	356.84067	122.33255	299.27321	8.38644	0.1167747	0.19532102	2.9419597	21	—	—
315008 2007 BP_{10}	16.3	X	241.42437	65.26771	118.15872	9.74922	0.1523543	0.19175284	2.9783439	21	12 11.1	20.7
315009 2007 BL_{17}	16.5	X	219.75935	142.59870	259.07937	1.73294	0.0594707	0.23207824	2.6224855	21	5 31.6	20.2
315010 2007 BR_{23}	16.3	X	36.52436	240.54145	122.04169	10.79882	0.1178445	0.19100546	2.9861081	21	12 16.5	20.4
315011 2007 BO_{30}	15.3	X	273.84508	294.48387	132.55974	17.59662	0.2309796	0.17756419	3.1349633	21	8 15.1	19.6
315012 Hutchings	16.3	X	255.05266	335.42545	213.60801	6.43949	0.1142377	0.19244551	2.9711930	21	—	—
315013 2007 BX_{33}	16.2	X	320.26652	318.75846	122.24709	10.94265	0.0238099	0.19047605	2.9916387	21	12 3.6	20.4
315014 2007 BD_{35}	16.6	X	220.02098	126.45598	114.00024	5.87997	0.0671426	0.19947345	2.9009884	21	—	—
315015 2007 BB_{38}	16.6	X	213.91173	65.06780	162.35893	2.24803	0.0199518	0.19619247	2.9332415	21	—	—
315016 2007 BX_{38}	16.0	X	343.55484	17.23140	135.17580	16.12877	0.0835631	0.20587644	2.8405228	21	—	—
315017 2007 BH_{44}	17.4	X	251.45680	47.12362	322.52274	18.47826	0.0731161	0.36502244	1.9390530	21	5 9.9	20.2
315018 2007 BA_{48}	16.6	X	331.51308	117.10971	346.12962	7.95764	0.1173731	0.19361050	2.9592622	21	—	—
315019 2007 BW_{48}	15.8	X	48.34390	20.33784	4.93112	7.41662	0.0771262	0.19257378	2.9698735	21	—	—
315020 2007 BG_{49}	18.6	X	182.41118	281.52686	332.82863	7.89528	0.3208193	0.39371447	1.8436641	21	—	—
315021 2007 BG_{57}	16.2	X	350.79093	159.46381	335.92464	12.31541	0.0820456	0.20345668	2.8630005	21	—	—
315022 2007 BE_{58}	15.6	X	240.79733	339.57546	139.47056	17.69432	0.1784581	0.18067379	3.0988885	21	9 22.1	20.5
315023 2007 BG_{62}	16.8	X	8.83562	263.78395	171.20697	3.84843	0.0535340	0.19858949	2.9095906	21	—	—
315024 2007 BA_{64}	16.0	X	183.38506	252.83152	277.23056	3.68951	0.1222184	0.17816513	3.1279099	21	9 25.9	21.0
315025 2007 BE_{66}	16.7	X	271.59941	151.75573	323.80704	5.33593	0.0393150	0.18297005	3.0729067	21	11 6.6	21.0
315026 2007 BD_{69}	15.6	X	338.91576	220.70134	146.69588	10.49929	0.1051012	0.17540377	3.1606526	21	9 23.9	19.5
315027 2007 BT_{69}	17.2	X	299.33388	143.94988	334.22122	5.57589	0.1143877	0.18951762	3.0017164	21	12 12.1	20.9
315028 2007 BK_{74}	16.1	X	6.25663	26.78148	330.14338	8.35501	0.0949690	0.18126466	3.0921505	21	10 17.8	20.1
315029 2007 BT_{74}	16.4	X	187.09371	169.08989	66.17794	3.48275	0.1536593	0.18677637	3.0310150	21	12 15.6	21.2
315030 2007 BR_{77}	15.6	X	34.30208	243.01281	301.73707	8.76405	0.0225945	0.15344353	3.4554425	21	4 13.9	20.6
315031 2007 BA_{78}	16.1	X	214.72342	157.31693	354.97873	3.67972	0.0271723	0.17668248	3.1453844	21	10 15.4	20.5
315032 2007 CF_{4}	15.6	X	55.69510	244.65589	113.01977	13.45183	0.1527625	0.18995093	2.9971497	21	—	—
315033 2007 CE_{8}	16.3	X	30.60325	122.24393	328.79851	5.32544	0.0573655	0.20551931	2.8438125	21	—	—
315034 2007 CG_{17}	16.7	X	311.09248	196.07285	122.51099	7.47056	0.0811322	0.22918504	2.6445100	21	6 6.7	20.0
315035 2007 CL_{19}	15.8	X	285.61060	93.67823	314.47632	9.18647	0.1628528	0.17816735	3.1278840	21	8 15.1	19.8
315036 2007 CH_{21}	16.1	X	303.04631	4.71277	119.09927	11.25215	0.0549540	0.19294403	2.9660729	21	12 30.7	20.1
315037 2007 CL_{22}	15.9	X	247.57919	30.42971	125.22118	9.55363	0.0441744	0.18754104	3.0227704	21	11 29.9	20.3
315038 2007 CO_{23}	16.9	X	52.27488	280.89596	130.20543	2.95859	0.0604174	0.20380585	2.8597295	21	—	—
315039 2007 CV_{24}	16.2	X	326.90262	116.90417	317.42907	9.19216	0.0785592	0.18948841	3.0020248	21	11 29.4	20.2
315040 2007 CR_{26}	15.9	X	280.47327	23.26657	84.98586	14.31774	0.0925288	0.18268972	3.0760494	21	11 8.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315041 2007 CF_{32}	16.4	X	201.39014	59.05382	156.64496	1.46054	0.1322557	0.18773945	3.0206404	21	12 8.2	21.1
315042 2007 CE_{35}	15.4	X	86.29174	160.95987	133.27535	11.74175	0.0729351	0.18034240	3.1026836	21	11 18.1	20.1
315043 2007 CO_{35}	16.2	X	44.78515	41.18803	316.87365	8.51781	0.0641200	0.18881383	3.0091709	21	12 12.2	20.4
315044 2007 CR_{44}	15.9	X	234.98823	334.83657	140.80565	10.61632	0.0276844	0.17810708	3.1285895	21	9 28.8	20.4
315045 2007 CX_{48}	16.6	X	314.11300	223.01587	249.97994	4.26232	0.0624456	0.19211345	2.9746157	21	12 31.6	20.5
315046 Gianniferrari	15.9	X	350.44119	220.81655	3.73517	14.29349	0.0472216	0.21799193	2.7342765	21	3 30.9	19.3
315047 2007 CW_{51}	15.6	X	229.26223	230.76424	9.41831	7.71014	0.0702764	0.19953151	2.9004256	21	—	—
315048 2007 CG_{53}	15.8	X	199.75534	238.92771	328.40105	13.20804	0.2716360	0.18112027	3.0937936	21	11 12.4	21.4
315049 2007 CX_{55}	15.6	X	14.23048	32.84885	127.05237	25.51315	0.0711827	0.21358690	2.7717431	21	2 10.1	19.0
315050 2007 CR_{59}	15.7	X	260.23519	243.49744	273.10796	11.23811	0.0602662	0.18893037	3.0079333	21	12 12.8	19.7
315051 2007 CW_{60}	15.2	X	190.11783	78.05000	122.37489	22.29239	0.1204838	0.18037200	3.1023442	21	11 17.3	20.5
315052 2007 CF_{66}	15.6	X	155.07642	288.42109	297.37740	8.50369	0.1831663	0.17772946	3.1330195	21	11 3.4	20.9
315053 2007 DZ	15.3	X	124.76582	322.29152	320.67913	16.48611	0.1954711	0.18236738	3.0796730	21	12 18.6	20.7
315054 2007 DP_{12}	15.9	X	281.09350	156.41869	326.09223	15.44803	0.0404274	0.18443363	3.0566283	21	11 26.2	20.4
315055 2007 DM_{13}	15.8	X	248.94378	174.07472	336.91324	8.61488	0.0869245	0.18457958	3.0550169	21	11 14.5	20.2
315056 2007 DK_{14}	16.3	X	75.73934	300.09469	355.26914	9.24345	0.0783907	0.17921194	3.1157177	21	11 1.1	20.9
315057 2007 DG_{16}	15.9	X	261.94576	358.24072	127.67021	9.95568	0.0430031	0.18309758	3.0714797	21	11 12.3	20.3
315058 2007 DS_{17}	16.5	X	310.57939	269.64340	154.08808	5.27234	0.1502825	0.18198208	3.0840184	21	10 18.0	20.1
315059 2007 DK_{20}	16.6	X	347.06410	265.36825	135.21897	2.93527	0.1234174	0.18323649	3.0699271	21	11 19.5	20.3
315060 2007 DL_{28}	15.9	X	152.75620	124.80973	127.07019	6.31478	0.1144498	0.18065443	3.0991098	21	12 5.3	20.8
315061 2007 DQ_{28}	15.4	X	132.83568	310.01475	350.74579	15.98919	0.0461850	0.18779179	3.0200791	21	—	—
315062 2007 DW_{30}	16.8	X	262.81583	329.07113	140.39447	4.29006	0.1372532	0.18016791	3.1046865	21	10 8.4	21.1
315063 2007 DP_{31}	16.1	X	183.71694	108.16820	152.10501	4.78479	0.1863943	0.18681706	3.0305750	21	—	—
315064 2007 DS_{32}	15.8	X	335.75024	317.08406	154.69728	9.59452	0.0660223	0.19223898	2.9733207	21	—	—
315065 2007 DC_{33}	15.9	X	190.71978	115.45170	138.68644	4.41599	0.1018030	0.18797741	3.0180906	21	—	—
315066 2007 DL_{35}	16.8	X	260.31549	147.87561	335.47335	2.39374	0.0934897	0.18093478	3.0959078	21	10 26.2	21.1
315067 2007 DD_{36}	16.0	X	285.68524	263.31474	164.27180	7.07747	0.1126425	0.17502309	3.1652340	21	9 17.7	20.2
315068 2007 DE_{36}	15.4	X	136.59438	290.76438	349.26267	10.55759	0.0762122	0.18338322	3.0682894	21	12 21.5	20.3
315069 2007 DW_{37}	16.5	X	292.01568	302.07955	171.12067	10.30130	0.2158028	0.18647080	3.0343255	21	11 13.6	20.2
315070 2007 DH_{41}	15.2	X	123.70793	289.64216	336.92747	9.85599	0.0490923	0.17808123	3.1288924	21	11 17.0	20.0
315071 2007 DY_{42}	16.0	X	320.54722	99.19832	315.22704	15.54793	0.2257291	0.18468770	3.0538244	21	10 5.3	19.5
315072 2007 DH_{43}	15.6	X	126.77196	279.55892	317.14543	8.66871	0.0668773	0.17546790	3.1598824	21	10 15.6	20.4
315073 2007 DZ_{45}	15.1	X	331.08051	40.60328	252.77924	7.86836	0.0525206	0.17381149	3.1799263	21	6 6.8	19.2
315074 2007 DC_{52}	15.4	X	229.72013	190.14838	180.24020	10.54828	0.0894625	0.15160494	3.4833235	21	5 7.4	20.7
315075 2007 DO_{52}	15.7	X	158.18171	268.23662	329.31682	9.07925	0.0577354	0.17980841	3.1088234	21	11 20.7	20.6
315076 2007 DS_{58}	16.0	X	171.81974	69.10126	165.62834	5.61052	0.2176467	0.17963084	3.1108718	21	11 30.1	21.4
315077 2007 DT_{58}	15.9	X	289.73950	291.34515	165.25924	15.64183	0.0457605	0.18115738	3.0933712	21	11 11.3	20.4
315078 2007 DQ_{59}	15.2	X	207.52009	178.18470	350.32004	9.55048	0.0821517	0.17932079	3.1144567	21	10 19.5	20.0
315079 2007 DB_{60}	15.1	X	200.04863	265.49530	337.97821	18.83981	0.1911693	0.18637185	3.0353994	21	—	—
315080 2007 DM_{65}	16.7	X	295.36175	301.05775	168.66935	3.66547	0.0743070	0.18609952	3.0383598	21	11 29.9	20.7
315081 2007 DK_{69}	16.9	X	241.78187	140.49726	14.08932	1.82683	0.0669391	0.18293296	3.0733220	21	11 15.3	21.2
315082 2007 DP_{70}	16.9	X	271.93893	347.75589	145.35945	3.67099	0.1398998	0.18528757	3.0472297	21	11 18.3	20.9
315083 2007 DU_{70}	15.7	X	132.99539	101.46172	161.17389	9.48059	0.0588055	0.17978503	3.1090929	21	11 28.1	20.5
315084 2007 DE_{71}	16.7	X	259.65582	151.30545	44.12090	2.06268	0.1392477	0.19105880	2.9855523	21	—	—
315085 2007 DS_{71}	16.3	X	206.29307	168.03758	61.26012	1.67161	0.1192283	0.18616671	3.0376288	21	12 29.7	21.0
315086 2007 DO_{81}	16.3	X	157.15505	69.47087	162.58257	11.56205	0.0501066	0.18088185	3.0965116	21	11 18.5	21.1
315087 2007 DL_{83}	15.6	X	34.64422	170.30227	146.91285	10.85563	0.0881032	0.17451249	3.1714050	21	10 14.5	19.9
315088 Daniels	16.0	X	80.95869	151.68502	146.45796	11.82096	0.0854937	0.17968281	3.1102720	21	11 17.9	20.7
315089 2007 DC_{86}	15.6	X	280.54685	124.92392	339.98602	8.84217	0.0558884	0.17988445	3.1079472	21	10 31.8	20.0
315090 2007 DS_{88}	15.9	X	203.60809	32.85362	146.82493	10.77293	0.0756585	0.18015717	3.1048099	21	11 5.2	20.7
315091 2007 DL_{90}	15.4	X	123.82833	113.45186	148.05618	10.27169	0.0661694	0.17936152	3.1139851	21	11 18.4	20.2
315092 2007 DJ_{91}	15.8	X	122.68320	146.12850	141.87129	3.13590	0.1527044	0.18334979	3.0686623	21	12 20.2	20.8
315093 2007 DK_{91}	16.3	X	198.97660	53.72834	151.60609	10.96800	0.0446577	0.18443707	3.0565904	21	12 2.5	20.9
315094 2007 DS_{91}	15.6	X	162.19413	117.95665	147.21022	6.15655	0.1391454	0.18603385	3.0390749	21	12 28.4	20.6
315095 2007 DL_{99}	15.6	X	113.75344	293.94125	350.01567	10.74313	0.1021796	0.18151424	3.0893154	21	12 2.2	20.5
315096 2007 DG_{112}	16.1	X	131.94287	352.29664	270.64751	0.56930	0.1099760	0.17625511	3.1504668	21	11 27.0	21.0
315097 2007 DW_{116}	15.4	X	169.49492	163.66062	42.78586	16.17785	0.1917085	0.17537256	3.1610276	21	10 27.9	20.7
315098 2007 EX	16.9	X	330.82170	78.85135	297.43470	18.69958	0.4174220	1.21122282	0.8716056	21	—	—
315099 2007 EK_3	15.3	X	125.31688	290.81064	343.45277	12.99641	0.1274693	0.17947565	3.1126649	21	12 2.9	20.4
315100 2007 EA_4	15.2	X	72.90464	328.46707	356.68389	8.40156	0.1163027	0.17808009	3.1289057	21	12 10.2	19.9
315101 2007 EU_5	16.2	X	159.32108	342.04170	242.16867	0.71493	0.1492866	0.17805634	3.1291840	21	11 7.9	21.3
315102 2007 EO_8	15.6	X	59.55935	325.21329	1.91134	9.23590	0.0497547	0.17683616	3.1435618	21	11 16.3	20.1
315103 2007 EX_8	15.5	X	357.56213	351.46469	2.73772	9.10353	0.1018100	0.17089787	3.2159672	21	10 2.8	19.6
315104 2007 EP_{14}	15.5	X	292.58590	6.97500	130.55342	10.85603	0.0525859	0.18937065	3.0032693	21	—	—
315105 2007 ET_{19}	15.9	X	60.53623	152.26967	161.30460	11.25693	0.0670740	0.17926790	3.1150692	21	11 9.7	20.4
315106 2007 EQ_{21}	16.5	X	297.26647	125.77978	7.02644	4.59743	0.1477241	0.19016843	2.9948639	21	12 25.0	20.0
315107 2007 EX_{25}	16.4	X	268.10330	91.42939	20.76120	12.68482	0.2602299	0.18120891	3.0927847	21	10 1.3	20.8
315108 2007 EY_{31}	15.8	X	218.37662	94.50442	138.96814	10.46885	0.0601215	0.19283772	2.9671629	21	—	—
315109 2007 EQ_{36}	15.7	X	196.53390	181.02858	38.94684	13.27013	0.2158631	0.18030863	3.1030710	21	11 29.7	21.0
315110 2007 EL_{37}	15.9	X	86.13189	339.36686	322.79544	3.10477	0.1649348	0.17431004	3.1738601	21	12 2.4	20.7
315111 2007 EU_{37}	15.5	X	306.54319	114.61770	351.67545	8.92712	0.0159193	0.18285216	3.0742274	21	12 13.0	19.9
315112 2007 EB_{42}	16.5	X	246.26141	168.64972	0.71702	2.39036	0.1584847	0.18374983	3.0642069	21	11 26.0	20.9
315113 2007 EK_{48}	17.0	X	253.23699	74.52257	11.61761	21.48163	0.1325060	0.37588220	1.9015228	21	9 20.4	18.8
315114 2007 ED_{50}	16.2	X	167.36088	265.77729	334.33020	4.20473	0.0983919	0.18082952	3.0971091	21	12 4.1	21.0
315115 2007 EJ_{51}	15.0	X	151.92133	306.10203	339.80175	12.49663	0.0788357	0.18502298	3.0501341	21	—	—
315116 2007 EX_{51}	17.7	X	84.78994	98.01093	177.03192	22.97051	0.0571704	0.37926602	1.8901957	21	11 21.9	20.3
315117 2007 EL_{53}	15.6	X	170.03167	248.99322	356.89160	6.35757	0.1587879	0.17964519	3.1107062	21	12 11.2	20.8
315118 2007 EU_{65}	15.7	X	181.25235	90.86994	156.52507	10.39081	0.1275792	0.18275062	3.0753660	21	12 25.4	20.7
315119 2007 EC_{69}	16.0	X	269.76390	354.03581	115.70309	3.11461	0.1014635	0.17826802	3.1267063	21	10 22.3	20.3
315120 2007 EM_{75}	16.3	X	284.31849	309.31180	186.80887	8.88416	0.0892928	0.18426207	3.0585253	21	12 14.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315121 2007 EW_{79}	15.4	X	235.70734	172.32918	357.82707	11.66086	0.0968002	0.17989740	3.1077981	21	11 19.4	20.1
315122 2007 EG_{81}	14.8	X	168.29147	49.31750	129.13469	28.14078	0.2071624	0.17727462	3.1383763	21	9 30.6	20.5
315123 2007 EE_{82}	15.2	X	199.23751	31.64228	150.23911	18.43145	0.0972144	0.17724834	3.1386865	21	11 2.9	20.3
315124 2007 EG_{82}	15.4	X	193.56259	178.71748	6.60812	17.39184	0.1420871	0.17758909	3.1346703	21	10 20.1	20.6
315125 2007 EV_{84}	15.2	X	187.38540	97.31934	127.28504	11.07305	0.0597114	0.18106604	3.0944114	21	12 10.3	20.0
315126 2007 EC_{85}	15.1	X	158.31860	69.08290	153.16422	16.94003	0.0614944	0.17464245	3.1698315	21	11 9.2	20.1
315127 2007 ES_{87}	17.5	X	91.10662	81.36164	178.88428	22.61860	0.0702251	0.37793344	1.8946362	21	11 9.5	19.9
315128 2007 EE_{91}	16.1	X	289.14160	260.31729	187.51674	25.37757	0.2319088	0.17820098	3.1274904	21	9 30.6	20.1
315129 2007 ED_{96}	16.3	X	209.47055	298.99029	194.65047	4.16533	0.1306398	0.16875061	3.2431907	21	9 7.3	21.4
315130 2007 EO_{98}	16.5	X	233.33188	135.66260	22.25620	3.55158	0.1502906	0.18095344	3.0956949	21	10 29.9	21.2
315131 2007 EH_{100}	16.2	X	197.65945	62.83541	176.60197	4.62799	0.0906889	0.18626581	3.0365513	21	—	—
315132 2007 EM_{100}	15.5	X	276.45097	109.16764	340.42408	20.86348	0.1172078	0.17786495	3.1314282	21	9 25.0	19.9
315133 2007 EV_{103}	16.5	X	256.49240	112.48118	3.74407	2.72255	0.0222350	0.17665129	3.1457546	21	10 22.5	21.0
315134 2007 EU_{108}	16.1	X	253.26259	103.47238	39.72281	5.43801	0.0536186	0.17898784	3.1183177	21	11 16.4	20.4
315135 2007 EJ_{112}	15.9	X	227.47694	96.94164	23.97284	9.59294	0.1305940	0.17075792	3.2177242	21	9 14.4	20.8
315136 2007 EK_{113}	16.6	X	186.41954	121.30228	141.61897	8.93335	0.0121158	0.19386206	2.9567016	21	—	—
315137 2007 EM_{113}	16.3	X	252.23065	194.73753	351.57404	11.05184	0.0541981	0.19154112	2.9805382	21	—	—
315138 2007 EP_{122}	15.7	X	260.11017	192.75598	334.10511	8.63064	0.1631196	0.18634713	3.0356678	21	12 9.2	20.0
315139 2007 EM_{126}	16.2	X	16.36084	59.03315	324.35289	7.80760	0.1210057	0.18618403	3.0374404	21	12 12.6	20.1
315140 2007 EO_{129}	16.6	X	215.52526	183.92998	338.59608	0.32425	0.1058634	0.17826761	3.1267111	21	10 21.6	21.4
315141 2007 EZ_{144}	15.6	X	54.77808	181.46529	159.12570	10.54163	0.1091609	0.17940549	3.1134763	21	12 9.4	20.2
315142 2007 EJ_{154}	16.1	X	141.16762	288.31411	309.31577	3.40050	0.1292086	0.17266941	3.1939328	21	11 5.4	21.2
315143 2007 EU_{160}	15.2	X	243.79569	162.83802	349.04870	11.11115	0.1391369	0.18026407	3.1035823	21	10 31.5	20.0
315144 2007 EC_{161}	15.1	X	233.44435	328.78085	206.90822	27.20376	0.1184762	0.17887201	3.1196637	21	11 24.2	19.9
315145 2007 EU_{169}	15.7	X	182.48064	300.34281	198.89076	9.40957	0.0518928	0.16089492	3.3479156	21	8 18.8	20.8
315146 2007 EA_{171}	15.8	X	208.75300	112.89323	76.32855	17.43971	0.1898008	0.18091617	3.0961201	21	11 12.7	20.9
315147 2007 EO_{173}	16.0	X	242.01441	240.62541	209.56508	4.95742	0.1020495	0.16688660	3.2672954	21	8 21.3	20.9
315148 2007 EJ_{183}	16.8	X	267.65244	52.74330	109.46813	2.82432	0.2167883	0.18904184	3.0067507	21	12 7.2	20.7
315149 2007 EF_{213}	15.2	X	240.74585	188.71107	1.78087	18.27999	0.2070313	0.18183064	3.0857306	21	12 5.3	20.1
315150 2007 EZ_{215}	15.7	X	173.54163	170.55121	42.42461	11.27656	0.1788881	0.17443753	3.1723135	21	11 6.2	20.9
315151 2007 EH_{219}	15.7	X	137.44729	179.13204	62.30508	6.68104	0.1329652	0.17161081	3.2070541	21	11 8.5	20.8
315152 2007 ET_{222}	14.7	X	121.64621	169.48707	97.76551	20.44877	0.1471376	0.17367367	3.1816085	21	11 28.4	20.0
315153 2007 ED_{223}	15.5	X	78.11268	139.39564	22.81920	28.40417	0.0535384	0.22039894	2.7143325	21	5 6.1	19.4
315154 2007 FC_{2}	15.3	X	149.19822	123.72248	134.88592	17.27820	0.1999577	0.17854450	3.1234776	21	12 11.6	20.9
315155 2007 FC_{12}	15.5	X	261.17950	296.41983	183.71321	10.16758	0.0725514	0.17848644	3.1241549	21	10 28.6	19.9
315156 2007 FL_{12}	17.2	X	144.75445	22.73405	192.04587	22.17615	0.0627918	0.37600280	1.9011162	21	11 10.4	19.5
315157 2007 FQ_{13}	16.1	X	189.63638	98.21926	73.64486	5.99484	0.1126156	0.17541139	3.1605611	21	10 8.9	21.1
315158 2007 FS_{18}	15.2	X	132.90256	116.92098	166.52299	8.99802	0.0899898	0.18387374	3.0628302	21	12 22.3	20.0
315159 2007 FX_{22}	15.9	X	224.38887	359.52086	160.84126	5.11216	0.1160646	0.17729540	3.1381310	21	10 28.9	20.6
315160 2007 FE_{23}	15.7	X	139.98784	93.19456	167.01496	6.26936	0.0265175	0.17778961	3.1323129	21	11 30.5	20.3
315161 2007 FL_{23}	15.9	X	212.81537	64.31747	147.03781	1.73757	0.1030853	0.18219573	3.0816070	21	12 16.4	20.5
315162 2007 FL_{24}	16.4	X	268.56113	61.01090	48.01843	1.76687	0.1283127	0.17748277	3.1359220	21	10 14.8	20.5
315163 2007 FR_{30}	15.2	X	149.35240	77.58450	190.38445	10.04918	0.0347503	0.18038801	3.1021605	21	12 19.6	19.9
315164 2007 FB_{32}	15.9	X	142.36480	33.72009	208.48559	3.18589	0.1510829	0.17198758	3.2023686	21	11 13.8	21.0
315165 2007 FZ_{36}	15.7	X	256.10105	290.86758	164.69955	11.28859	0.1616314	0.17141379	3.2095110	21	9 7.4	20.3
315166 Pawelmaksym	15.5	X	119.83575	142.28569	139.95868	10.57669	0.0542431	0.17911159	3.1168812	21	12 6.6	20.3
315167 2007 GE_{4}	15.2	X	203.73678	118.63745	82.43599	19.98589	0.1486089	0.17742233	3.1366341	21	11 23.9	20.2
315168 2007 GE_{21}	17.2	X	144.51224	139.85864	36.67550	21.49640	0.0514240	0.36741584	1.9306229	21	9 22.9	19.8
315169 2007 GH_{33}	15.2	X	204.69710	33.11328	172.64651	28.05002	0.1438618	0.17633869	3.1494713	21	11 30.1	20.6
315170 2007 GW_{37}	16.2	X	163.48120	53.94172	170.18744	5.18287	0.1491038	0.17222529	3.1994213	21	11 12.2	21.4
315171 2007 GB_{69}	16.2	X	260.79256	109.26138	10.42819	8.70879	0.0946421	0.17762605	3.1342354	21	10 21.1	20.7
315172 2007 GY_{74}	15.3	X	240.93635	31.55673	121.74547	17.51456	0.1904836	0.17783818	3.1317425	21	11 3.9	20.3
315173 2007 HS_{4}	17.5	X	233.42537	271.38380	211.94983	21.36708	0.0821562	0.37739661	1.8964325	21	10 21.5	19.2
315174 Sellek	15.1	X	173.09460	153.98489	70.39697	16.00118	0.2250165	0.17503441	3.1650974	21	11 19.5	20.6
315175 2007 HW_{14}	17.4	X	15.21712	98.80565	136.63019	24.66893	0.0704198	0.35234378	1.9852947	21	5 22.9	19.9
315176 2007 HX_{41}	16.2	X	265.08024	100.47926	2.78123	3.50928	0.0363736	0.17569305	3.1571823	21	10 15.1	20.5
315177 2007 HB_{47}	16.1	X	166.00805	86.01947	126.01499	6.68348	0.1242986	0.17212859	3.2006194	21	11 2.0	21.3
315178 2007 HF_{64}	16.3	X	313.77036	341.22554	177.85751	4.24776	0.1830578	0.19147131	2.9812626	21	—	—
315179 2007 HG_{78}	15.4	X	293.99801	18.60616	161.72639	11.39720	0.0657306	0.19145586	2.9814231	21	—	—
315180 2007 HO_{80}	16.7	X	264.21454	111.61066	41.93534	0.79647	0.2102834	0.18297516	3.0728495	21	11 21.5	21.0
315181 2007 HA_{90}	15.2	X	177.51541	128.51371	85.51466	12.53680	0.1723394	0.17419623	3.1752424	21	11 13.9	20.5
315182 2007 JP_{36}	16.3	X	346.36149	141.68053	11.71747	4.88149	0.0905724	0.19775204	2.9177992	21	—	—
315183 2007 JK_{42}	17.0	X	79.01707	102.57499	114.07065	24.09209	0.0422378	0.36202890	1.9497274	21	8 4.7	18.9
315184 2007 JM_{42}	15.0	X	208.32329	60.16136	140.65623	26.78102	0.1500772	0.17506735	3.1647005	21	11 30.9	20.5
315185 2007 KD_{1}	17.6	X	124.57607	41.71453	134.15314	24.46455	0.0485916	0.35994540	1.9572440	21	8 9.7	19.5
315186 Schade	17.2	X	30.76585	18.43948	332.54588	6.58284	0.2989445	0.29230903	2.2485777	21	—	—
315187 2007 OS_{1}	17.6	X	328.29844	56.83746	295.76726	9.34529	0.3010696	0.27883933	2.3204205	21	7 28.7	18.5
315188 2007 PZ_{13}	14.8	X	210.98928	149.50414	123.72584	19.87021	0.2287082	0.17713280	3.1400512	21	—	—
315189 2007 PQ_{20}	17.7	X	12.59716	60.06907	270.78168	0.82901	0.1845156	0.28615284	2.2807132	21	10 26.9	19.6
315190 2007 PE_{22}	17.0	X	32.85387	230.11710	144.43578	5.14889	0.1774574	0.29775501	2.2210756	21	—	—
315191 2007 PH_{22}	17.7	X	52.83383	242.41980	138.70669	5.51110	0.1840060	0.30051111	2.2074745	21	—	—
315192 2007 PG_{27}	17.6	X	85.43424	292.04239	77.02740	5.65837	0.1701039	0.30557747	2.1830072	21	—	—
315193 2007 PZ_{36}	17.7	X	40.45350	195.59274	161.91004	5.49373	0.2065455	0.29644979	2.2275901	21	—	—
315194 2007 PO_{37}	17.4	X	49.70012	57.30886	309.78078	6.37949	0.2628841	0.29819400	2.2188952	21	—	—
315195 2007 PM_{40}	12.9	X	18.94180	63.73976	324.63399	17.89955	0.0902340	0.08202331	5.2461960	21	11 23.9	19.7
315196 2007 PG_{43}	16.5	X	91.47696	158.06740	155.37922	5.07677	0.1871507	0.29641462	2.2277664	21	—	—
315197 2007 PF_{45}	18.1	X	351.29547	295.88343	117.56184	2.35345	0.1564260	0.29377490	2.2410915	21	—	—
315198 2007 PB_{49}	18.0	X	46.85321	41.26371	326.20209	1.92384	0.1851730	0.29886266	2.2155843	21	—	—
315199 2007 QD	17.0	X	341.41807	17.33980	319.30026	6.58155	0.1371015	0.27914493	2.3187267	21	8 22.7	19.0
315200 2007 QQ_{9}	17.3	X	9.80258	9.79491	350.92086	6.36974	0.2189057	0.28889158	2.2662760	21	12 12.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315201 2007 QX_{9}	17.0	X	57.56921	354.84117	350.12192	7.25055	0.1858981	0.29614006	2.2291431	21	—	—
315202 2007 QN_{12}	16.4	X	323.54764	350.12991	39.68934	26.48553	0.2030974	0.28310522	2.2970518	21	10 18.6	18.1
315203 2007 QK_{15}	13.7	X	96.11835	324.64957	338.31308	13.61404	0.0157525	0.08253827	5.2243526	21	11 9.4	20.8
315204 2007 QM_{15}	13.6	X	354.91647	47.64334	350.39311	6.02928	0.0171998	0.07926321	5.3672885	21	11 3.5	20.6
315205 2007 QO_{15}	13.6	X	282.06927	340.62688	151.72732	8.20664	0.0246577	0.08240568	5.2299548	21	11 27.7	20.5
315206 2007 RQ_{1}	17.3	X	81.91695	330.08705	3.96068	6.34782	0.2011248	0.29940190	2.2129232	21	—	—
315207 2007 RP_{10}	17.0	X	18.32139	71.18011	322.74382	10.46473	0.0899781	0.29706223	2.2245274	21	—	—
315208 2007 RS_{22}	13.0	X	32.33546	36.93769	336.81944	13.63227	0.0403463	0.08216774	5.2400467	21	11 19.7	20.0
315209 2007 RC_{37}	17.4	X	12.49264	5.09067	16.85545	7.42752	0.1767554	0.28895807	2.2659283	21	—	—
315210 2007 RO_{48}	18.0	X	243.27866	346.35045	162.83686	2.15834	0.1130382	0.28877534	2.2668841	21	11 23.2	20.4
315211 2007 RX_{52}	17.4	X	234.73884	274.59815	304.70493	4.87941	0.1226819	0.30511452	2.1852148	21	—	—
315212 2007 RJ_{60}	17.8	X	192.07444	19.82426	275.84210	4.13436	0.1906632	0.31595210	2.1349542	21	—	—
315213 2007 RL_{87}	17.4	X	280.89245	61.75227	5.24895	2.89602	0.1500956	0.28025539	2.3125976	21	9 15.3	19.6
315214 2007 RV_{95}	17.3	X	31.26935	324.06847	42.10554	3.11457	0.1699145	0.29174602	2.2514696	21	—	—
315215 2007 RL_{97}	16.6	X	64.83815	196.63733	148.21800	4.90875	0.1752504	0.29566684	2.2315210	21	—	—
315216 2007 RM_{105}	17.1	X	288.60180	356.44092	44.85210	4.04877	0.0918380	0.27716361	2.3297639	21	8 31.7	19.7
315217 2007 RJ_{108}	18.0	X	312.41542	161.93512	226.59567	1.62695	0.2174292	0.27973709	2.3154532	21	9 3.6	19.5
315218 La Boetie	16.9	X	339.72715	221.05447	175.58884	6.31732	0.1114792	0.28817070	2.2700539	21	11 26.8	19.0
315219 2007 RX_{137}	17.8	X	335.56455	199.00857	186.94091	3.20116	0.1681202	0.28503128	2.2866922	21	11 3.5	19.3
315220 2007 RK_{140}	17.4	X	20.75089	3.16381	353.80785	4.46126	0.1543819	0.29015794	2.2596772	21	12 13.9	19.8
315221 2007 RS_{148}	17.5	X	4.93007	335.64893	39.65477	3.53950	0.1825505	0.28939733	2.2636348	21	12 19.8	19.7
315222 2007 RA_{149}	17.4	X	9.05969	87.77851	294.46856	5.56126	0.1715016	0.28986921	2.2611775	21	—	—
315223 2007 RP_{154}	17.5	X	340.15115	85.61317	328.24202	3.86292	0.1936630	0.29083780	2.2561544	21	—	—
315224 2007 RR_{154}	13.9	X	352.48896	272.12252	150.56803	4.49290	0.0655291	0.08356191	5.1815991	21	12 1.4	20.5
315225 2007 RO_{155}	18.2	X	250.92877	113.40696	333.85568	3.11834	0.1508680	0.27970121	2.3156513	21	8 30.6	21.1
315226 2007 RN_{175}	17.3	X	6.94948	244.28572	149.20018	6.81669	0.1129507	0.29124492	2.2540513	21	—	—
315227 2007 RB_{179}	17.3	X	264.98511	231.53979	189.51455	3.77992	0.0828851	0.27133734	2.3629961	21	8 21.8	20.3
315228 2007 RC_{192}	18.0	X	347.82664	246.32332	193.35338	6.67050	0.0637291	0.29732564	2.2232133	21	—	—
315229 2007 RW_{206}	17.8	X	292.81564	5.47858	80.56986	2.52850	0.1890871	0.28446677	2.2897164	21	11 1.3	19.7
315230 2007 RA_{213}	17.5	X	19.43381	179.00110	181.24786	4.81954	0.1926548	0.29032454	2.2588127	21	12 23.3	20.0
315231 2007 RX_{227}	17.2	X	290.59442	340.27626	58.27286	2.46491	0.1788347	0.27200270	2.3591410	21	8 14.5	19.5
315232 2007 RY_{227}	17.5	X	219.02196	198.12902	55.95924	3.83065	0.1136571	0.30113940	2.2044030	21	—	—
315233 2007 RG_{247}	17.4	X	116.94543	199.37612	144.62267	6.85903	0.2429003	0.30634429	2.1793627	21	—	—
315234 2007 RP_{260}	17.6	X	334.61372	221.30502	214.05555	5.48795	0.0383417	0.28837615	2.2689756	21	—	—
315235 2007 RH_{261}	16.5	X	262.69651	248.65986	176.20959	21.29792	0.2313680	0.27363288	2.3497619	21	7 29.9	20.1
315236 2007 RX_{269}	17.2	X	175.79476	290.51379	335.85500	5.85638	0.0886785	0.30276541	2.1965034	21	—	—
315237 2007 RW_{272}	17.2	X	3.79134	67.72486	353.11313	7.84538	0.0933260	0.29560632	2.2318255	21	—	—
315238 2007 RK_{275}	16.5	X	240.92473	255.08152	122.90176	23.34666	0.2773604	0.26514556	2.3996421	21	5 14.9	21.1
315239 2007 RB_{280}	17.3	X	355.78227	80.33231	284.73897	10.54816	0.2943047	0.28641672	2.2793121	21	12 5.3	18.9
315240 2007 RP_{284}	17.8	X	65.97057	5.64389	17.43569	6.22920	0.1219851	0.30310512	2.1948619	21	—	—
315241 2007 RN_{290}	18.0	X	217.84097	241.39357	190.30750	2.37910	0.1561466	0.26287996	2.4134098	21	7 1.0	21.7
315242 2007 RB_{291}	18.1	X	254.19098	317.27070	136.39789	1.90382	0.1446253	0.27392900	2.3480682	21	9 14.2	20.8
315243 2007 RE_{296}	18.1	X	254.33394	35.71380	6.12401	1.05937	0.1760420	0.27139880	2.3626394	21	6 28.5	21.3
315244 2007 RT_{296}	17.4	X	3.84514	128.94247	219.88743	5.57718	0.1689297	0.27869290	2.3212332	21	11 2.9	19.2
315245 2007 RY_{298}	17.7	X	275.55566	332.76618	45.28312	4.24781	0.1662050	0.27231243	2.3573518	21	6 22.9	20.8
315246 2007 RP_{300}	17.6	X	286.79653	324.60726	182.84802	4.68948	0.0220018	0.30073885	2.2063599	21	—	—
315247 2007 RO_{311}	16.7	X	322.16907	250.37081	94.80050	7.39825	0.1505140	0.27487586	2.3426729	21	7 25.9	18.7
315248 2007 RX_{320}	17.6	X	99.67045	237.68084	139.53051	5.21947	0.0576604	0.30676682	2.1773611	21	—	—
315249 2007 SS_{3}	17.5	X	52.77399	280.82338	68.47849	1.25805	0.2498797	0.29414768	2.2391977	21	—	—
315250 2007 SR_{5}	17.8	X	88.87703	312.48053	15.60321	2.50816	0.1993026	0.29849196	2.2174183	21	—	—
315251 2007 SJ_{11}	17.7	X	68.01894	278.75581	57.64592	1.40480	0.1974718	0.29524605	2.2336407	21	—	—
315252 2007 TW_{7}	17.8	X	340.93870	267.15083	126.14622	3.01729	0.1738007	0.28583917	2.2823814	21	11 28.5	19.5
315253 2007 TY_{8}	17.3	X	317.66730	283.15518	88.62272	4.20208	0.1943223	0.27562609	2.3384199	21	8 24.8	19.0
315254 2007 TK_{10}	17.0	X	243.59308	33.70880	12.37483	1.30455	0.1708003	0.26758867	2.3850138	21	6 22.7	20.5
315255 2007 TP_{10}	17.3	X	357.06051	307.88156	46.30197	3.84607	0.1360538	0.28267856	2.2993626	21	10 25.9	19.1
315256 2007 TK_{12}	17.3	X	257.09722	11.36820	37.21693	5.11352	0.2247867	0.26949076	2.3737782	21	7 5.2	20.7
315257 2007 TO_{14}	18.0	X	319.05531	55.38964	31.66237	7.40669	0.0351365	0.29326205	2.2437035	21	12 31.8	20.6
315258 2007 TK_{18}	17.6	X	56.23641	264.88878	66.37457	2.90137	0.2334747	0.29225039	2.2488784	21	—	—
315259 2007 TO_{18}	16.6	X	5.78521	217.12730	121.35624	6.56559	0.1941888	0.28076246	2.3098123	21	10 29.7	18.6
315260 2007 TN_{27}	17.7	X	305.31967	145.22805	20.86581	7.09947	0.0648739	0.30393794	2.1908506	21	—	—
315261 2007 TM_{40}	17.3	X	331.66671	205.97125	217.47702	6.55610	0.0837045	0.28569593	2.2831442	21	12 18.0	19.6
315262 2007 TE_{41}	16.8	X	183.44926	127.66409	46.83396	7.02776	0.1472575	0.27635409	2.3343114	21	10 13.1	20.2
315263 2007 TA_{46}	16.5	X	357.31802	353.56334	47.74267	10.34842	0.1948530	0.28746887	2.2737472	21	—	—
315264 2007 TQ_{46}	17.2	X	306.16487	32.52426	11.51356	11.24870	0.1543598	0.28250932	2.3002809	21	9 27.6	19.0
315265 2007 TL_{48}	17.2	X	302.05092	55.39661	319.11446	1.42924	0.1991888	0.27424243	2.3462788	21	7 23.9	19.6
315266 2007 TX_{57}	17.6	X	269.50873	161.94421	26.42456	4.18849	0.0333405	0.29945533	2.2126600	21	—	—
315267 2007 TJ_{61}	16.9	X	234.90209	228.87740	195.02513	2.27010	0.1356789	0.26737775	2.3862680	21	7 10.6	20.3
315268 2007 TR_{64}	17.8	X	225.76933	302.07947	136.86777	1.80407	0.1551873	0.26648955	2.3915672	21	7 19.2	21.3
315269 2007 TM_{66}	18.1	X	298.25148	268.28127	145.94129	2.27002	0.1703171	0.27794547	2.3253927	21	9 24.1	19.9
315270 2007 TP_{69}	17.4	X	35.08934	148.70790	217.67563	4.30797	0.1926715	0.29242909	2.2479622	21	—	—
315271 2007 TA_{76}	17.4	X	275.70473	79.90571	26.31040	6.85977	0.0897972	0.28338260	2.2955527	21	11 12.2	19.7
315272 2007 TQ_{81}	17.4	X	352.99199	265.13584	94.90727	3.19661	0.2188779	0.28221393	2.3018857	21	11 7.0	18.9
315273 2007 TO_{87}	17.4	X	242.12272	314.01099	183.78312	6.03991	0.0941322	0.28205972	2.3027246	21	11 8.3	20.2
315274 2007 TX_{87}	17.6	X	267.51541	144.61233	64.58962	6.53132	0.0886374	0.30315834	2.1946050	21	—	—
315275 2007 TJ_{90}	17.4	X	242.27863	283.03820	163.88099	4.42763	0.1171314	0.27206634	2.3587731	21	8 22.9	20.6
315276 Yurigradovsky	16.9	X	337.32353	167.32565	215.30352	6.03261	0.2068486	0.28457932	2.2891126	21	11 3.9	18.0
315277 2007 TT_{105}	17.0	X	269.36125	68.61289	17.53440	6.80993	0.0610845	0.28099741	2.3085246	21	10 9.7	19.6
315278 2007 TS_{107}	17.7	X	314.77905	209.97025	201.72552	5.12102	0.1292124	0.28389117	2.2928103	21	10 29.9	19.6
315279 2007 TP_{108}	17.5	X	3.52853	98.45898	306.59796	4.93269	0.1495864	0.29230339	2.2486066	21	—	—
315280 2007 TD_{109}	17.6	X	57.45570	72.30360	303.83791	2.10335	0.1344879	0.29831989	2.2182709	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315281 2007 TG_{112}	16.8	X	295.31301	75.23181	320.05208	6.47547	0.1176014	0.27649498	2.3335183	21	8 26.4	19.1
315282 2007 TG_{114}	16.7	X	216.59673	68.02510	346.84172	5.08242	0.1319305	0.26286819	2.4134818	21	6 8.3	20.3
315283 2007 TM_{119}	17.5	X	265.66670	97.43338	312.02555	4.34393	0.2256139	0.26962864	2.3729688	21	7 16.1	20.5
315284 2007 TW_{124}	17.1	X	331.98850	350.44980	39.64059	7.91059	0.1089910	0.28185954	2.3038147	21	10 30.0	19.2
315285 2007 TG_{125}	17.4	X	297.88598	319.42698	65.88115	3.51411	0.2014084	0.27438790	2.3454494	21	8 3.0	19.8
315286 2007 TM_{125}	17.2	X	289.68530	235.18782	151.22162	2.87581	0.1893876	0.27283462	2.3543430	21	7 21.9	19.8
315287 2007 TK_{128}	17.9	X	238.97159	176.56848	250.46216	1.14562	0.1786092	0.26732480	2.3865831	21	7 15.0	21.2
315288 2007 TL_{129}	17.2	X	231.53622	63.36559	33.58926	4.54050	0.1786076	0.26962244	2.3730052	21	8 18.7	20.6
315289 2007 TH_{133}	18.0	X	261.74582	294.64468	190.11803	3.17637	0.1319254	0.28243772	2.3006696	21	11 11.9	20.6
315290 2007 TN_{145}	17.6	X	312.11577	33.16083	29.51881	4.94099	0.1710765	0.28268109	2.2993489	21	11 6.7	19.2
315291 2007 TJ_{147}	17.4	X	10.06038	301.53331	74.80860	4.52984	0.1343348	0.28974983	2.2617986	21	12 21.9	19.8
315292 2007 TM_{148}	17.4	X	72.87978	218.05704	128.98441	3.97693	0.1498163	0.29622065	2.2287387	21	—	—
315293 2007 TO_{155}	17.7	X	322.38263	141.44990	268.14829	3.56108	0.1392974	0.28363405	2.2941957	21	11 9.5	19.6
315294 2007 TK_{156}	16.6	X	296.83097	91.51261	245.48175	5.51106	0.1303790	0.26709802	2.3879337	21	5 31.3	19.4
315295 2007 TB_{157}	17.7	X	75.11521	103.26353	234.06654	4.74612	0.1994540	0.29520935	2.2338258	21	—	—
315296 2007 TF_{157}	16.8	X	72.78315	328.09330	12.68061	8.55457	0.0989980	0.29337383	2.2431336	21	—	—
315297 2007 TB_{158}	17.6	X	98.15066	85.87157	314.40667	3.85385	0.0148055	0.31016930	2.1614085	21	—	—
315298 2007 TH_{160}	16.0	X	13.68326	204.90271	223.44579	14.97893	0.1923036	0.22228591	2.6989495	21	—	—
315299 2007 TF_{163}	17.6	X	344.94314	161.61049	197.52539	5.23791	0.1830656	0.28060219	2.3106917	21	10 10.6	19.2
315300 2007 TQ_{169}	17.2	X	208.96075	332.17896	116.38660	3.44176	0.1842057	0.26571140	2.3962342	21	7 13.0	21.0
315301 2007 TA_{174}	17.2	X	110.63873	256.07835	63.47284	7.38434	0.1663489	0.30171205	2.2016128	21	—	—
315302 2007 TV_{177}	17.5	X	302.82501	293.47334	71.85970	2.53932	0.1964490	0.27215158	2.3582806	21	7 11.5	19.9
315303 2007 TM_{187}	17.2	X	290.72195	330.60473	119.05624	4.59474	0.0946211	0.28372880	2.2936850	21	11 15.7	19.5
315304 2007 TS_{199}	17.8	X	292.49808	52.98489	16.11901	3.82175	0.1403223	0.28026411	2.3125496	21	10 10.4	20.0
315305 2007 TO_{204}	17.4	X	354.90828	159.67006	185.20364	5.59674	0.1880532	0.27900847	2.3194826	21	10 11.5	19.1
315306 2007 TN_{212}	17.2	X	285.88159	172.65332	255.40250	5.53127	0.0839872	0.27829721	2.3234330	21	10 2.2	19.9
315307 2007 TE_{216}	17.8	X	290.81231	175.58001	260.84444	1.54414	0.1721794	0.27890936	2.3200321	21	10 12.5	20.0
315308 2007 TO_{216}	17.0	X	241.15310	245.12377	228.31551	6.93677	0.1924002	0.27408518	2.3471761	21	9 14.3	20.3
315309 2007 TF_{233}	17.3	X	287.08118	358.46648	60.51906	3.50575	0.1721516	0.27530524	2.3402364	21	9 11.1	19.7
315310 2007 TE_{234}	16.9	X	294.55386	64.03068	59.16963	6.94922	0.0295891	0.28955393	2.2628186	21	—	—
315311 2007 TX_{236}	17.8	X	155.60115	132.00615	153.25705	2.59934	0.0855504	0.29984532	2.2107410	21	—	—
315312 2007 TU_{244}	16.8	X	278.10864	101.30926	269.86692	6.23925	0.1222701	0.26850361	2.3795927	21	6 23.8	19.8
315313 2007 TL_{257}	18.2	X	350.34108	354.31721	39.21912	2.24029	0.0407628	0.28562444	2.2835252	21	12 1.3	20.8
315314 2007 TC_{273}	17.1	X	166.05391	17.88746	92.18668	4.86324	0.1101323	0.26106736	2.4245678	21	6 29.5	20.6
315315 2007 TS_{290}	17.1	X	279.57787	51.36291	58.13224	11.20707	0.1263539	0.28345500	2.2951617	21	11 19.8	19.4
315316 2007 TJ_{296}	17.5	X	304.51346	143.51665	8.74849	6.36412	0.0632122	0.30144512	2.2029123	21	—	—
315317 2007 TQ_{299}	17.7	X	293.37642	75.23672	7.86561	1.82926	0.1607521	0.28188684	2.3036660	21	10 30.8	19.7
315318 2007 TU_{309}	17.6	X	180.52149	98.05466	34.29402	2.76484	0.1503195	0.26521323	2.3992339	21	8 14.6	21.2
315319 2007 TH_{317}	17.1	X	252.78171	18.62887	81.92424	4.22537	0.1329139	0.27533841	2.3400484	21	9 25.9	19.9
315320 2007 TY_{332}	17.7	X	259.18698	237.66713	249.20918	2.48807	0.1301932	0.28194268	2.3033619	21	11 10.1	20.3
315321 2007 TW_{333}	17.7	X	172.36495	353.45467	285.04815	2.32043	0.1638300	0.30071982	2.2064530	21	—	—
315322 2007 TB_{347}	17.3	X	100.10065	201.89131	136.46821	5.71069	0.1807429	0.29904417	2.2146877	21	—	—
315323 2007 TD_{353}	17.4	X	317.21992	313.83621	25.55405	6.22632	0.1363833	0.27232854	2.3572589	21	7 8.8	19.8
315324 2007 TP_{354}	16.7	X	295.94208	247.05850	123.60249	11.38620	0.2178821	0.27181886	2.3602046	21	7 3.5	19.5
315325 2007 TP_{367}	17.3	X	301.96651	307.56588	90.25797	6.86069	0.2827484	0.27623341	2.3349912	21	8 16.8	19.3
315326 2007 TJ_{368}	17.0	X	49.19885	203.21255	37.59088	3.03900	0.1309940	0.26345459	2.4098991	21	8 5.4	19.5
315327 2007 TK_{373}	17.7	X	111.78037	266.61073	43.01720	5.87643	0.2291529	0.29796975	2.2200083	21	—	—
315328 2007 TQ_{379}	17.4	X	285.58025	41.96694	38.47999	10.23960	0.1489259	0.28147311	2.3059229	21	10 16.2	19.5
315329 2007 TQ_{380}	17.7	X	255.75206	39.41364	60.74623	2.68131	0.0838365	0.27862549	2.3216076	21	10 6.7	20.3
315330 2007 TC_{381}	17.5	X	258.35357	301.73348	118.81297	2.10067	0.1701742	0.27096649	2.3651516	21	7 30.3	20.6
315331 2007 TD_{392}	17.5	X	40.80601	327.94112	35.62853	2.89324	0.0705022	0.29219339	2.2491709	21	—	—
315332 2007 TW_{392}	17.6	X	225.69077	95.73872	343.41957	2.00355	0.1782457	0.26647536	2.3916521	21	7 17.9	21.1
315333 2007 TK_{393}	16.6	X	298.82487	63.96363	289.96000	6.50940	0.1445593	0.27253900	2.3560452	21	6 26.3	19.0
315334 2007 TC_{411}	17.0	X	356.31460	351.35258	324.12012	6.59897	0.2005169	0.27830906	2.3233670	21	8 23.9	18.5
315335 2007 TH_{411}	17.4	X	288.69680	34.20699	52.01925	6.13087	0.0951831	0.28390086	2.2927581	21	11 5.8	19.6
315336 2007 TM_{418}	17.0	X	152.63216	123.24949	24.69542	6.89854	0.0830976	0.26661561	2.3908133	21	8 6.8	20.4
315337 2007 TH_{419}	17.0	X	239.61987	90.55701	21.47704	7.08391	0.0662294	0.27639916	2.3340576	21	10 3.1	19.7
315338 2007 TO_{419}	18.0	X	291.46071	175.22854	246.90585	2.69930	0.1976721	0.27663381	2.3327375	21	9 15.7	20.1
315339 2007 TQ_{441}	16.8	X	124.55574	214.64187	4.42944	7.50515	0.0650619	0.28035941	2.3120255	21	10 5.9	19.8
315340 2007 TP_{445}	17.8	X	270.63565	40.10592	67.69332	4.06868	0.1871451	0.28001982	2.3138944	21	10 23.6	20.0
315341 2007 TU_{445}	17.5	X	208.54268	313.40292	236.92021	7.51110	0.1312381	0.28502010	2.2867519	21	11 30.2	20.6
315342 2007 TF_{451}	17.2	X	324.17003	236.33352	59.11318	8.55584	0.1652931	0.26534838	2.3984192	21	5 9.2	19.5
315343 2007 UW_{2}	17.5	X	259.63168	60.14159	69.82131	3.26087	0.1094837	0.28583154	2.2824220	21	11 19.9	20.0
315344 2007 UO_{4}	17.3	X	275.28000	76.65064	351.50141	4.91995	0.1248595	0.27626710	2.3348013	21	9 11.5	20.0
315345 2007 UE_{10}	16.8	X	33.44022	270.65190	70.18485	7.54066	0.1580276	0.28884354	2.2665272	21	12 10.1	19.5
315346 2007 UT_{10}	17.3	X	324.79882	55.58917	22.75123	5.63334	0.1367670	0.28703733	2.2760255	21	—	—
315347 2007 UA_{11}	16.7	X	273.71159	358.62348	66.13326	5.63084	0.1305752	0.27310779	2.3527728	21	9 6.0	19.4
315348 2007 UB_{11}	17.3	X	325.70347	19.13638	66.24626	4.36237	0.1096629	0.28777182	2.2721511	21	—	—
315349 2007 UO_{11}	17.2	X	326.00985	263.36472	108.20009	3.29780	0.2197649	0.27756432	2.3275211	21	9 12.1	18.6
315350 2007 UN_{13}	17.6	X	185.99266	358.90967	57.48066	2.16874	0.1792475	0.25516757	2.4617979	21	5 11.7	21.6
315351 2007 UX_{14}	16.9	X	277.62176	272.36166	110.19840	11.89903	0.2766382	0.27097281	2.3651149	21	6 16.4	20.1
315352 2007 UY_{28}	17.5	X	223.40673	28.86857	242.30750	5.28018	0.1204246	0.31205690	2.1526835	21	—	—
315353 2007 UL_{44}	17.4	X	221.50373	193.48866	20.12294	6.11386	0.1138224	0.29805523	2.2195838	21	—	—
315354 2007 UP_{45}	17.9	X	288.72801	30.96419	73.01725	3.50601	0.1091993	0.28605749	2.2812200	21	11 30.8	20.1
315355 2007 UG_{46}	17.7	X	268.02909	167.15594	259.06528	1.43493	0.1805127	0.27343831	2.3508764	21	8 18.1	20.5
315356 2007 UV_{54}	17.5	X	192.26745	124.27961	46.53314	4.32225	0.1007636	0.27764175	2.3270883	21	10 19.8	20.7
315357 2007 UR_{57}	17.8	X	247.62418	138.07166	43.33163	7.58805	0.0419553	0.29284612	2.2458275	21	—	—
315358 2007 UG_{58}	17.2	X	181.63191	190.62532	45.98872	5.78050	0.0472883	0.29118126	2.2543799	21	—	—
315359 2007 UC_{65}	17.9	X	199.18693	324.27698	184.25182	1.00912	0.1240887	0.27439160	2.3454284	21	9 24.9	21.1
315360 2007 UY_{71}	17.9	X	36.95748	42.76622	336.90369	1.96657	0.0686309	0.29434123	2.2382159	21	—	—

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		°	°	°	°		°				
315361 2007 UY_{78}	17.8	X	245.72676	23.89832	44.24173	2.02061	0.1875777	0.26837366	2.3803608	21	7 23.8	21.3
315362 2007 UQ_{101}	17.8	X	235.16220	35.29153	62.40634	3.36982	0.1753324	0.26923745	2.3752669	21	8 23.7	21.3
315363 2007 UZ_{127}	16.7	X	135.70784	198.86930	80.15825	7.19244	0.1144255	0.28923718	2.2644703	21	—	—
315364 2007 UC_{142}	16.2	X	115.77224	359.33654	77.56733	15.56934	0.2311868	0.23728932	2.5839489	21	4 14.4	20.2
315365 2007 VB	17.0	X	299.02437	344.96572	52.12374	3.09506	0.1942038	0.27400286	2.3476462	21	8 25.7	19.1
315366 2007 VU_{1}	17.5	X	279.43092	90.77180	286.31779	2.58686	0.1993646	0.26930934	2.3748441	21	6 21.7	20.5
315367 2007 VV_{1}	17.7	X	326.69035	159.22488	262.68712	2.46810	0.1575190	0.28479413	2.2879614	21	12 10.4	19.5
315368 2007 VX_{2}	13.1	X	334.69854	114.23735	308.73912	14.54396	0.1098114	0.08335533	5.1901566	21	11 1.5	19.7
315369 2007 VG_{6}	13.1	X	237.83036	191.31207	304.01770	12.63396	0.0906389	0.08274789	5.2155259	21	9 28.9	20.4
315370 2007 VT_{9}	17.0	X	241.86917	2.43441	69.79371	6.41771	0.0853241	0.26783411	2.3835565	21	8 8.8	20.2
315371 2007 VJ_{18}	17.8	X	179.88595	41.90513	75.88882	2.37263	0.1377254	0.26477945	2.4018536	21	7 25.2	21.3
315372 2007 VQ_{26}	17.7	X	65.99625	241.77532	121.20640	6.07588	0.1287813	0.29407242	2.2395797	21	—	—
315373 2007 VS_{38}	17.4	X	274.72156	209.55139	174.45952	5.38741	0.2949843	0.26853371	2.3794149	21	6 12.2	20.9
315374 2007 VN_{39}	17.7	X	219.25130	174.66073	51.40690	6.20645	0.1169732	0.29669899	2.2263426	21	—	—
315375 2007 VV_{42}	16.8	X	177.32626	356.01944	35.25011	5.17351	0.2005923	0.24331093	2.5411383	21	4 4.9	21.1
315376 2007 VM_{49}	16.4	X	3.41259	62.74970	20.22657	6.86821	0.2022112	0.22151598	2.7051998	21	—	—
315377 2007 VO_{50}	17.5	X	182.62147	289.61470	324.80793	2.97146	0.1481029	0.29570050	2.2313516	21	—	—
315378 2007 VC_{54}	15.5	X	169.46902	196.95944	63.12381	25.99386	0.0767490	0.22027831	2.7153234	21	—	—
315379 2007 VU_{54}	17.7	X	265.33061	220.25480	158.40568	3.00435	0.1978221	0.26512505	2.3997659	21	6 7.1	21.0
315380 2007 VE_{55}	17.0	X	234.09263	76.18575	78.83712	7.65779	0.0417461	0.28255232	2.3000474	21	11 28.5	19.7
315381 2007 VN_{63}	17.6	X	263.45290	234.45529	164.70613	1.10054	0.0921490	0.26592092	2.3949753	21	7 18.3	20.5
315382 2007 VQ_{64}	17.6	X	246.01130	17.17069	25.73659	1.21239	0.1623335	0.26297747	2.4128131	21	6 22.1	21.1
315383 2007 VX_{66}	18.0	X	240.91901	58.98875	25.62921	2.50448	0.2123232	0.26743135	2.3859491	21	8 7.3	21.4
315384 2007 VP_{72}	17.6	X	345.61133	47.91244	333.58574	0.27474	0.2265099	0.28094245	2.3088257	21	11 24.2	18.9
315385 2007 VM_{83}	16.9	X	152.68188	226.83509	280.91044	5.22327	0.0600087	0.25690420	2.4506912	21	8 1.2	20.3
315386 2007 VY_{86}	17.4	X	309.80553	129.59840	271.80774	6.30716	0.0963920	0.27783529	2.3260075	21	9 30.9	20.0
315387 2007 VG_{89}	17.8	X	203.30427	319.19522	83.19498	3.66606	0.1922353	0.25716747	2.4490183	21	5 9.9	21.7
315388 2007 VP_{91}	17.4	X	307.42807	35.59516	352.44710	2.38809	0.1873278	0.27485602	2.3427856	21	8 28.2	19.3
315389 2007 VT_{97}	17.7	X	218.12999	237.92154	291.77736	3.61485	0.1470346	0.28086551	2.3092473	21	11 10.2	20.9
315390 2007 VH_{105}	17.7	X	253.91625	67.52003	20.00101	1.51723	0.1473113	0.27210863	2.3585288	21	9 4.5	20.5
315391 2007 VX_{107}	17.8	X	225.13938	179.35390	244.32532	1.61056	0.1747834	0.26320114	2.4114460	21	6 26.6	21.3
315392 2007 VN_{111}	18.0	X	182.11928	145.60930	62.43995	3.36214	0.1496815	0.28174154	2.3044580	21	11 22.2	21.1
315393 2007 VH_{114}	17.9	X	283.57438	317.28518	110.22864	2.14112	0.1656467	0.27424504	2.3462639	21	9 17.9	20.2
315394 2007 VY_{118}	17.6	X	158.16639	0.14566	142.30720	3.00859	0.1374930	0.26127967	2.4232542	21	8 4.0	21.1
315395 2007 VU_{121}	17.4	X	138.35657	335.63548	276.89109	4.81746	0.1388924	0.28621743	2.2803701	21	12 6.6	20.8
315396 2007 VJ_{125}	17.3	X	270.90967	276.29240	123.84297	7.69786	0.1229394	0.26899345	2.3767030	21	7 25.4	19.9
315397 2007 VS_{135}	16.7	X	269.39852	298.58209	103.02038	8.47670	0.1562949	0.26797300	2.3827329	21	7 20.4	19.7
315398 2007 VR_{138}	17.4	X	225.32929	57.64186	35.21778	6.67386	0.0870914	0.26693507	2.3889054	21	8 17.2	20.7
315399 2007 VE_{141}	17.8	X	278.89556	171.21761	339.92103	2.96992	0.1052756	0.29204280	2.2499440	21	—	—
315400 2007 VE_{143}	17.3	X	33.22273	290.63771	72.10032	6.34635	0.1605493	0.28721659	2.2750784	21	—	—
315401 2007 VU_{144}	17.2	X	335.15068	298.55014	84.01349	5.20974	0.1982154	0.27903821	2.3193178	21	10 29.1	18.7
315402 2007 VZ_{153}	17.2	X	277.14508	15.06711	25.28761	4.87015	0.1332146	0.27040175	2.3684436	21	8 4.4	20.0
315403 2007 VM_{168}	17.5	X	261.60867	162.37170	272.96921	1.60406	0.1519320	0.27019725	2.3696385	21	8 26.5	20.3
315404 2007 VM_{181}	16.4	X	115.61654	224.60674	33.19086	13.29217	0.0980373	0.21212260	2.7844842	21	11 7.5	20.6
315405 2007 VZ_{183}	16.0	X	297.02379	157.37178	282.45924	23.86548	0.1828814	0.28209829	2.3025147	21	10 18.5	18.9
315406 2007 VF_{185}	17.6	X	316.66458	90.53109	297.36206	2.08103	0.2059837	0.27580188	2.3374262	21	9 13.9	19.1
315407 2007 VE_{192}	17.1	X	139.00121	120.92213	303.53815	1.02212	0.1672001	0.24063291	2.5599572	21	4 6.8	20.8
315408 2007 VJ_{193}	16.7	X	229.79249	177.53857	267.40370	5.84806	0.0726050	0.26076878	2.4264182	21	8 7.9	20.0
315409 2007 VS_{194}	17.2	X	177.77779	18.28043	96.07176	7.03693	0.0852891	0.25605073	2.4561339	21	7 18.4	20.6
315410 2007 VE_{197}	16.5	X	46.05196	22.31145	82.73786	14.84509	0.2044284	0.22734761	2.6587395	21	1 18.2	19.0
315411 2007 VJ_{198}	17.3	X	276.48897	144.83859	262.98825	4.93988	0.1109233	0.26338686	2.4103123	21	8 13.4	20.4
315412 2007 VQ_{198}	17.1	X	67.17928	260.87442	275.00880	5.66217	0.1507860	0.24156467	2.5533701	21	6 1.5	20.1
315413 2007 VE_{219}	17.2	X	357.50895	106.15418	251.91084	2.94323	0.1744124	0.27841169	2.3227960	21	11 4.5	19.0
315414 2007 VH_{227}	17.4	X	206.23708	13.28025	71.33760	5.62928	0.1678643	0.26244617	2.4160684	21	7 6.3	21.1
315415 2007 VC_{233}	17.7	X	28.56817	132.57322	200.06889	0.50342	0.2125119	0.28211589	2.3024189	21	11 29.6	20.3
315416 2007 VK_{233}	17.5	X	240.49323	0.80262	65.49067	3.63271	0.1628737	0.26633705	2.3924801	21	7 18.2	20.9
315417 2007 VZ_{237}	17.4	X	255.05294	257.80095	125.08658	1.92183	0.1580031	0.26359890	2.4090195	21	6 5.9	20.6
315418 2007 VE_{241}	16.3	X	160.93787	282.38866	130.61570	15.77616	0.0939069	0.23594137	2.5937811	21	4 16.5	20.5
315419 2007 VW_{244}	17.8	X	188.98607	118.66974	358.36820	1.28572	0.1393499	0.26359929	2.4090172	21	8 2.3	21.5
315420 2007 VU_{245}	17.2	X	260.58164	85.13104	314.83586	6.16408	0.1124906	0.26721779	2.3872201	21	7 13.3	20.3
315421 2007 VY_{247}	17.3	X	323.42056	225.20586	179.51031	6.93475	0.0664066	0.28038802	2.3118682	21	11 6.6	19.7
315422 2007 VY_{251}	17.2	X	255.44863	359.84905	98.63284	5.58384	0.1018278	0.27560970	2.3385126	21	10 2.6	20.1
315423 2007 VQ_{252}	17.3	X	289.31037	38.18983	359.78557	3.97716	0.1806081	0.27209243	2.3586223	21	8 11.3	19.8
315424 2007 VU_{254}	17.5	X	294.24241	285.85588	94.36908	4.57829	0.1874196	0.27169010	2.3609503	21	7 21.3	20.0
315425 2007 VZ_{255}	17.2	X	250.24181	55.13977	45.43211	7.89509	0.0846657	0.27414087	2.3468583	21	9 30.9	20.1
315426 2007 VZ_{259}	17.5	X	198.20762	304.19460	302.19344	7.25452	0.1319768	0.29674975	2.2260887	21	—	—
315427 2007 VS_{263}	17.2	X	130.39668	19.04291	275.16667	6.17163	0.1460877	0.29530336	2.2333517	21	—	—
315428 2007 VJ_{286}	17.1	X	13.62422	289.92333	62.83918	7.69129	0.1374583	0.27913550	2.3187789	21	11 21.8	19.5
315429 2007 VG_{291}	18.2	X	219.03381	233.37586	186.72000	1.20904	0.1773377	0.26021070	2.4298863	21	6 15.8	21.8
315430 2007 VQ_{292}	16.7	X	72.89693	175.73450	78.22916	7.36087	0.1003538	0.26849660	2.3796341	21	9 27.1	19.8
315431 2007 VX_{292}	16.8	X	345.99858	195.72660	173.77980	13.34622	0.2030837	0.28043733	2.3115972	21	11 5.7	18.7
315432 2007 VX_{294}	16.5	X	99.56179	40.48884	94.53736	6.36322	0.2368005	0.23706666	2.5855666	21	6 4.3	20.2
315433 2007 VM_{295}	17.3	X	278.78280	98.92515	290.67726	5.72166	0.1455023	0.26864375	2.3787651	21	7 17.6	20.0
315434 2007 VD_{299}	17.2	X	346.95115	280.74097	130.92880	2.73100	0.1632356	0.28711081	2.2756372	21	—	—
315435 2007 VQ_{301}	17.2	X	235.97268	99.23328	39.94397	3.41270	0.0847888	0.27922687	2.3182730	21	11 1.4	20.1
315436 2007 VA_{311}	16.9	X	121.52086	300.52471	100.12981	8.65099	0.1949369	0.23255613	2.6188916	21	2 24.7	20.7
315437 2007 VZ_{312}	17.3	X	65.44883	107.92917	56.76735	12.81608	0.0910392	0.24675623	2.5174294	21	5 5.7	20.3
315438 2007 VP_{326}	17.3	X	227.10287	202.99398	316.29713	4.29176	0.1794408	0.27727253	2.3291537	21	11 1.4	20.7
315439 2007 VN_{335}	16.0	X	268.55362	27.87117	319.67142	11.13490	0.1497301	0.24227735	2.5483603	21	5 1.9	19.9
315440 2007 WX_{1}	17.1	X	323.32715	270.42549	125.40297	7.30006	0.2926551	0.27882139	2.3205200	21	10 17.8	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315441 2007 WD_{11}	17.0	X	110.17965	141.89849	157.95229	5.81558	0.2084932	0.29218934	2.2491917	21	—	—
315442 2007 WJ_{15}	17.5	X	199.75680	329.24361	94.73764	3.58558	0.1773364	0.25730461	2.4481480	21	6 3.0	21.5
315443 2007 WL_{24}	17.4	X	208.19634	13.66791	75.59091	6.32899	0.1931523	0.26345714	2.4098836	21	7 13.3	21.3
315444 2007 WV_{25}	17.5	X	158.68456	224.65884	86.26324	4.47666	0.1612361	0.30387199	2.1911676	21	—	—
315445 2007 WM_{41}	17.1	X	76.14878	348.59851	122.21066	5.03763	0.1691811	0.24044742	2.5612736	21	3 20.9	19.9
315446 2007 WQ_{54}	16.8	X	64.36881	223.69665	279.50259	4.33174	0.0856752	0.23411603	2.6072456	21	3 31.2	20.0
315447 2007 WS_{59}	18.1	X	242.46234	7.67759	40.15279	2.09106	0.1733855	0.26245858	2.4159922	21	6 23.6	21.7
315448 2007 WZ_{60}	17.1	X	208.98211	238.23487	262.96148	4.13543	0.1355061	0.26987428	2.3715287	21	9 22.1	20.7
315449 2007 XD_3	16.0	X	9.36406	222.92712	241.42648	12.63606	0.0817372	0.22606468	2.6687890	21	—	—
315450 2007 XQ_5	17.7	X	227.91604	257.86241	161.11545	3.14429	0.2112640	0.26243639	2.4161284	21	6 20.5	21.6
315451 2007 XF_9	16.9	X	223.84911	211.15845	279.31293	6.82059	0.2736530	0.26774909	2.3840611	21	9 8.8	20.9
315452 2007 XJ_{12}	17.6	X	270.02549	75.33345	81.49740	4.78546	0.0787353	0.28999380	2.2605298	21	—	—
315453 2007 XL_{13}	16.2	X	163.73138	274.58076	72.13788	14.61154	0.1781509	0.23660022	2.5889637	21	1 30.4	20.4
315454 2007 XE_{15}	16.1	X	355.39042	269.56144	81.33328	23.30140	0.2471153	0.27751089	2.3278198	21	11 10.6	18.2
315455 2007 XY_{20}	17.3	X	277.76150	345.10038	76.27845	2.26957	0.1617747	0.27121457	2.3637092	21	8 30.7	20.0
315456 2007 XB_{22}	16.8	X	284.85563	321.65383	68.34536	6.11850	0.2238245	0.26922735	2.3753262	21	7 14.7	19.8
315457 2007 XC_{28}	17.7	X	232.14624	139.58959	318.21478	5.24447	0.1899713	0.26470589	2.4022985	21	8 16.7	21.1
315458 2007 XC_{30}	16.2	X	238.12585	202.08423	120.75817	3.11059	0.1391366	0.24686084	2.5167182	21	3 6.1	20.2
315459 2007 XM_{32}	16.4	X	203.86724	344.37210	32.47360	5.20625	0.1741321	0.24599102	2.5226473	21	4 9.1	20.4
315460 2007 XZ_{32}	16.9	X	131.64094	123.92063	30.59829	1.95584	0.1532820	0.25311824	2.4750678	21	7 25.2	20.5
315461 2007 XN_{37}	17.2	X	254.26516	43.07480	35.16852	3.13420	0.1886463	0.26835514	2.3804703	21	8 17.5	20.3
315462 2007 XM_{42}	17.7	X	80.96580	6.92067	122.30666	6.42880	0.1890785	0.23577534	2.5949986	21	4 28.1	20.9
315463 2007 XP_{51}	18.1	X	231.55415	280.59175	142.06639	1.65833	0.1689181	0.25989796	2.4318352	21	7 2.3	21.8
315464 2007 XA_{53}	17.0	X	250.42233	327.33512	86.67301	5.47439	0.0937468	0.26459132	2.4029920	21	7 22.4	20.2
315465 2007 XV_{53}	16.2	X	70.71417	22.53441	114.96807	23.26017	0.0906683	0.23694176	2.5864751	21	4 17.3	20.0
315466 2007 XY_{53}	16.3	X	322.11066	307.27130	304.41334	8.75287	0.0901823	0.23724470	2.5842729	21	3 14.7	19.8
315467 2007 XW_{54}	17.3	X	147.04277	78.59972	90.14414	2.29326	0.1300657	0.26362553	2.4088573	21	8 28.4	20.8
315468 2007 XZ_{56}	17.9	X	234.37776	147.15004	275.52722	1.89157	0.1618693	0.26370473	2.4083749	21	7 5.9	21.2
315469 2007 XX_{58}	17.3	X	311.22569	248.42558	108.52366	7.63854	0.1249528	0.26065096	2.4271493	21	7 26.0	19.7
315470 2007 YR_3	17.3	X	152.04082	60.80220	12.81138	1.94463	0.1232436	0.24505695	2.5290536	21	4 27.9	20.9
315471 2007 YY_7	16.7	X	54.70444	296.58276	324.55892	6.31755	0.0892192	0.26738814	2.3862061	21	9 3.8	19.4
315472 2007 YC_{10}	17.0	X	168.52371	151.54477	338.97928	6.22002	0.0507824	0.25706935	2.4496414	21	7 30.3	20.3
315473 2007 YQ_{12}	16.9	X	184.02381	33.55421	59.65226	7.13955	0.0743387	0.25337467	2.4733975	21	6 26.4	20.4
315474 2007 YR_{15}	17.6	X	189.35370	91.58489	335.71943	1.89694	0.1163823	0.25401215	2.4692575	21	5 28.2	21.2
315475 2007 YG_{16}	17.8	X	208.59179	74.24564	63.64677	2.24022	0.1272149	0.26927653	2.3750370	21	9 21.6	21.2
315476 2007 YC_{21}	18.0	X	177.23330	324.10252	187.63710	0.79624	0.1283619	0.26239415	2.4163877	21	9 4.7	21.5
315477 2007 YP_{33}	18.1	X	208.91951	59.21265	107.46418	2.16355	0.1033788	0.27566306	2.3382109	21	11 2.1	21.1
315478 2007 YH_{34}	17.5	X	253.82351	127.31365	300.50882	5.21765	0.0957507	0.26678888	2.3897781	21	8 13.6	20.7
315479 2007 YQ_{38}	17.5	X	177.58677	150.53163	2.18407	2.48973	0.1150781	0.26251115	2.4156697	21	9 7.3	21.0
315480 2007 YK_{50}	17.7	X	114.03694	206.50620	284.66569	4.57835	0.1550464	0.24555020	2.5256657	21	6 4.0	21.4
315481 2007 YP_{58}	17.3	X	147.08973	60.18051	83.79751	1.80564	0.1628489	0.25257026	2.4786464	21	7 27.3	21.0
315482 2007 YL_{63}	16.9	X	189.32602	283.91337	104.49853	6.12101	0.1679719	0.24212073	2.5494592	21	4 13.1	21.1
315483 2007 YV_{63}	17.3	X	136.43394	329.93596	113.79077	9.96000	0.0453514	0.23924570	2.5698432	21	4 20.5	21.0
315484 2007 YD_{66}	17.4	X	325.55869	349.30014	302.17699	1.17116	0.0402773	0.24595980	2.5228608	21	5 24.5	20.6
315485 2007 YS_{67}	17.0	X	205.70510	47.10158	55.84504	6.01643	0.1428743	0.25987198	2.4319973	21	8 2.1	20.8
315486 2007 YK_{71}	16.2	X	114.91263	18.31942	96.02536	14.25611	0.1009494	0.23919091	2.5702356	21	5 11.9	19.9
315487 2007 YS_{71}	16.9	X	119.75806	77.07379	353.73848	7.21204	0.1636353	0.23873644	2.5734965	21	3 24.1	20.5
315488 2007 YZ_{71}	16.8	X	51.70355	83.79501	112.81286	15.75760	0.0548027	0.24451198	2.5328101	21	5 28.0	20.1
315489 2007 YF_{72}	16.2	X	322.58065	161.11253	89.38577	10.65900	0.1256921	0.23470063	2.6029144	21	3 19.4	19.6
315490 2008 AF	17.6	X	237.38251	91.11928	339.04444	4.39749	0.2119703	0.26277135	2.4140747	21	7 15.1	21.2
315491 2008 AL	17.0	X	67.92926	144.49105	87.03705	7.45922	0.0563971	0.26106954	2.4245543	21	8 9.2	20.0
315492 2008 AV	16.5	X	80.39299	19.36281	94.03468	16.51218	0.0906243	0.23506942	2.6001912	21	3 27.5	20.2
315493 Zimin	16.5	X	216.41819	76.89065	17.99135	6.58844	0.0793890	0.25915363	2.4364894	21	8 8.9	19.9
315494 2008 AQ_2	15.9	X	83.56375	351.56704	119.92483	22.31506	0.0387730	0.23350645	2.6117812	21	3 20.8	19.7
315495 2008 AQ_3	17.0	X	244.48682	120.69056	337.54370	5.70442	0.1863307	0.26606976	2.3940821	21	8 31.8	20.4
315496 2008 AW_3	17.1	X	131.99060	13.38058	81.24671	4.25638	0.1696388	0.24193323	2.5507762	21	5 9.8	20.8
315497 2008 AN_4	16.0	X	94.29712	123.91829	305.47687	30.75699	0.2667295	0.23166275	2.6256203	21	2 20.5	19.7
315498 2008 AO_{14}	17.2	X	9.34920	113.51167	132.20156	10.44809	0.0570011	0.24502581	2.5292678	21	5 29.5	20.3
315499 2008 AX_{14}	17.3	X	156.72441	152.86633	282.48255	5.20235	0.0719070	0.24265325	2.5457278	21	4 29.9	20.9
315500 2008 AD_{16}	16.1	X	298.36056	9.27272	285.99079	12.41179	0.1483135	0.24173343	2.5521816	21	3 28.0	19.8
315501 2008 AM_{20}	17.8	X	159.94205	353.66299	86.70409	2.11461	0.0863836	0.24284496	2.5443879	21	5 13.7	21.5
315502 2008 AC_{23}	17.2	X	63.26659	83.48013	91.03332	4.71786	0.1304605	0.23876832	2.5732674	21	5 22.1	20.1
315503 2008 AV_{25}	17.2	X	196.45331	276.76050	102.51043	4.55685	0.1093365	0.23855041	2.5748342	21	4 7.2	21.1
315504 2008 AJ_{28}	17.1	X	331.02583	240.31252	348.91061	3.17022	0.1273043	0.22606373	2.6687964	21	2 26.8	20.2
315505 2008 AM_{28}	16.3	X	57.52517	140.21282	339.37736	12.32533	0.1140459	0.22578599	2.6709846	21	2 23.6	19.4
315506 2008 AH_{29}	16.2	X	217.41598	341.19811	101.56453	23.26787	0.2797220	0.26347694	2.4097629	21	7 7.6	20.2
315507 2008 AE_{30}	16.5	X	249.04457	333.33920	84.54097	7.86378	0.0662667	0.25943266	2.4347420	21	7 30.8	19.7
315508 2008 AB_{31}	20.2	X	192.94766	255.61834	303.02697	30.01997	0.3206056	0.48609108	1.6019819	21	12 5.6	22.5
315509 2008 AS_{34}	17.4	X	227.58028	117.85817	324.39160	3.36922	0.1058573	0.25899984	2.4374538	21	7 31.0	20.8
315510 2008 AB_{44}	16.6	X	17.80751	224.41532	323.42381	6.32870	0.1267804	0.23173809	2.6250511	21	3 16.7	19.5
315511 2008 AY_{47}	17.9	X	306.83307	87.27734	279.50853	2.27003	0.1601092	0.26501980	2.4004012	21	7 26.8	20.1
315512 2008 AR_{54}	16.7	X	61.73246	166.01545	118.41657	7.40046	0.1344766	0.26438243	2.4042576	21	10 27.9	19.9
315513 2008 AS_{57}	17.3	X	128.19285	275.11189	161.08615	2.44476	0.1138363	0.23850424	2.5751665	21	4 5.0	20.9
315514 2008 AW_{60}	16.5	X	243.77167	42.22889	283.61362	8.37516	0.0896291	0.23807271	2.5782774	21	3 14.1	20.5
315515 2008 AH_{67}	17.4	X	146.99846	80.06293	127.88420	3.72561	0.1518616	0.26261108	2.4150568	21	10 18.9	21.2
315516 2008 AE_{68}	16.8	X	129.38475	342.08185	122.58915	4.90184	0.1063812	0.24184852	2.5513718	21	5 13.8	20.4
315517 2008 AW_{68}	16.7	X	149.78796	240.81929	135.29149	17.33643	0.2285816	0.23030013	2.6359667	21	2 25.8	21.0
315518 2008 AC_{69}	17.4	X	99.49362	58.76673	97.14304	3.59162	0.0309247	0.24379703	2.5377594	21	6 1.7	20.7
315519 2008 AA_{71}	16.9	X	131.04380	282.65156	144.23148	6.42329	0.2586095	0.23801305	2.5787082	21	4 14.4	21.0
315520 2008 AH_{71}	16.8	X	134.31457	327.06073	83.63974	10.21955	0.1933369	0.23508084	2.6001070	21	3 25.2	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315521 2008 AX_{72}	16.5	X	272.94303	154.49329	136.96942	13.52255	0.1898770	0.23093757	2.6311139	21	2 27.7	20.5
315522 2008 AN_{81}	16.9	X	30.12116	257.53391	286.82151	2.91734	0.1269956	0.23397581	2.6082872	21	4 4.2	19.7
315523 2008 AZ_{88}	17.6	X	204.58622	345.55740	125.54014	2.06374	0.1415817	0.26003530	2.4309788	21	8 9.9	21.2
315524 2008 AT_{99}	16.7	X	85.65653	16.75515	167.51504	6.76976	0.0699651	0.24685486	2.5167588	21	6 27.7	20.0
315525 2008 AL_{105}	17.6	X	147.81812	118.30366	75.15509	3.55954	0.1109789	0.26310402	2.4120394	21	9 30.9	21.2
315526 2008 AB_{108}	17.2	X	131.52774	147.20780	252.83286	0.77388	0.2142330	0.23495567	2.6010304	21	3 5.3	21.1
315527 2008 AO_{114}	16.6	X	88.97547	16.35837	0.86366	4.75291	0.0549377	0.21622883	2.7491197	21	—	—
315528 2008 AA_{118}	16.7	X	13.87202	73.32169	140.58370	14.74206	0.0513041	0.23311886	2.6146753	21	4 25.8	20.2
315529 2008 AN_{120}	17.5	X	309.85471	182.98116	119.01523	6.39570	0.0561832	0.24607943	2.5220431	21	5 16.2	20.7
315530 2008 AP_{129}	4.7	X	55.71865	55.88665	14.80429	27.44183	0.1368979	0.00368203	41.5346929	21	2 21.0	20.7
315531 2008 AR_{129}	16.4	X	154.83245	17.57692	351.43535	5.93319	0.0459143	0.22134302	2.7066088	21	2 5.2	20.1
315532 2008 AB_{135}	16.4	X	58.30096	139.41864	139.95681	4.73890	0.0730349	0.18581576	3.0414523	21	9 25.7	20.5
315533 2008 AV_{137}	15.7	X	293.39795	312.97509	340.02574	15.01334	0.1270653	0.23813055	2.5778598	21	3 24.5	19.4
315534 2008 BH_{5}	17.0	X	99.02508	234.50758	326.51515	6.32734	0.0623439	0.25398195	2.4694533	21	8 8.5	20.2
315535 2008 BS_{9}	16.6	X	179.34711	312.09042	113.81216	9.14932	0.0987871	0.24423281	2.5347397	21	5 19.1	20.5
315536 2008 BS_{12}	16.8	X	220.20096	290.31743	91.16437	13.14343	0.1628122	0.24757525	2.5118743	21	5 4.3	21.0
315537 2008 BY_{15}	16.7	X	115.70968	223.81355	313.91353	5.18775	0.0909558	0.25202289	2.4822340	21	7 31.9	20.1
315538 2008 BA_{17}	17.6	X	98.05696	78.97456	44.79179	5.28818	0.1188452	0.23911734	2.5707628	21	4 30.4	20.8
315539 2008 BE_{23}	17.6	X	116.19384	334.59791	141.37841	5.21867	0.1967675	0.23955947	2.5675987	21	5 24.3	21.4
315540 2008 BT_{34}	17.1	X	176.87231	75.24837	339.52726	10.48823	0.1863246	0.24010482	2.5637094	21	4 27.9	21.5
315541 2008 BU_{38}	16.9	X	18.20083	217.03755	337.09947	7.53479	0.0880829	0.22940743	2.6428006	21	3 27.4	19.9
315542 2008 BW_{38}	16.7	X	89.83778	104.08612	341.66612	10.81376	0.0408735	0.22331739	2.6906323	21	2 19.2	20.1
315543 2008 BR_{40}	16.7	X	103.21081	17.03739	122.37531	12.92893	0.1211059	0.23977416	2.5660658	21	5 31.7	20.4
315544 2008 BS_{43}	17.1	X	111.91516	267.64501	243.40148	3.75537	0.1515901	0.24595877	2.5228679	21	6 27.9	20.6
315545 2008 BJ_{46}	15.9	X	194.13358	45.80261	332.73930	15.04054	0.1444980	0.23488267	2.6015693	21	3 27.2	20.2
315546 2008 BQ_{47}	16.1	X	112.56485	96.14014	356.71028	12.67385	0.1396773	0.22917460	2.6445903	21	4 8.2	19.8
315547 2008 BV_{48}	16.9	X	61.93149	81.21602	331.56468	12.34217	0.1923536	0.22151254	2.7052277	21	—	—
315548 2008 BK_{49}	16.6	X	141.13546	69.42409	26.15438	11.05054	0.1509947	0.24161515	2.5530145	21	5 15.5	20.6
315549 2008 BB_{52}	17.5	X	104.36707	278.24251	195.63511	3.61347	0.1816477	0.23857084	2.5746872	21	5 5.2	21.1
315550 2008 BR_{52}	16.9	X	137.92562	312.62077	146.52468	12.18476	0.1395125	0.24374772	2.5381016	21	5 21.5	20.9
315551 2008 CL_{4}	17.2	X	191.60606	249.86315	318.17423	3.97506	0.1004485	0.27125390	2.3634807	21	12 4.3	20.4
315552 2008 CM_{5}	16.8	X	15.60669	259.72803	307.81276	12.59845	0.2705165	0.23143045	2.6273769	21	3 30.8	19.0
315553 2008 CM_{9}	17.5	X	223.25930	301.48357	97.62988	1.13604	0.0123812	0.24546828	2.5262275	21	6 4.9	20.9
315554 2008 CE_{14}	16.5	X	293.94519	127.14145	136.61753	10.67978	0.0360069	0.22939203	2.6429189	21	3 9.0	20.0
315555 2008 CZ_{15}	16.8	X	84.92177	3.92330	122.41110	5.07816	0.0666136	0.23334987	2.6129495	21	4 10.3	20.1
315556 2008 CB_{20}	16.7	X	42.73150	4.55934	97.34568	3.67597	0.2208200	0.22376557	2.6870384	21	1 6.5	18.6
315557 2008 CT_{22}	16.9	X	140.86953	228.31311	197.87194	5.90092	0.2731244	0.24041837	2.5614799	21	4 21.3	21.1
315558 2008 CA_{24}	17.9	X	152.38121	130.14868	333.96399	2.76948	0.1522439	0.24447666	2.5330540	21	6 9.3	21.8
315559 2008 CR_{27}	16.6	X	335.53708	299.64731	342.66088	8.49627	0.0658734	0.24384403	2.5374333	21	5 21.6	19.8
315560 2008 CU_{28}	17.5	X	93.36366	75.75445	20.04200	1.41779	0.1611073	0.23348147	2.6119675	21	3 24.4	20.8
315561 2008 CZ_{32}	17.8	X	88.63529	158.55400	356.49615	2.12958	0.1249847	0.24013460	2.5634975	21	5 30.7	21.0
315562 2008 CV_{36}	17.2	X	21.70370	53.40935	164.93319	6.31254	0.1188297	0.23664516	2.5886358	21	5 11.9	19.9
315563 2008 CW_{38}	17.3	X	17.26130	154.59669	104.10134	2.53012	0.1643693	0.24378594	2.5378363	21	7 4.9	19.7
315564 2008 CY_{38}	17.1	X	166.05867	270.77902	136.97469	13.32368	0.2100965	0.23981852	2.5657494	21	4 20.4	21.6
315565 2008 CS_{40}	17.6	X	134.07159	202.01438	238.80655	2.99093	0.1215925	0.23601469	2.5932438	21	4 17.7	21.2
315566 2008 CS_{43}	16.9	X	72.37849	45.57389	95.43562	4.34231	0.0908082	0.23247228	2.6195213	21	4 15.3	20.1
315567 2008 CP_{46}	16.2	X	274.25307	284.25807	323.01540	7.24653	0.1361625	0.21681733	2.7441429	21	1 13.3	20.4
315568 2008 CA_{47}	16.5	X	127.50282	177.77261	187.17352	5.98486	0.0802005	0.21374444	2.7703810	21	1 2.3	20.4
315569 2008 CE_{48}	16.4	X	138.10070	182.56925	273.08063	11.95850	0.0952368	0.24044589	2.5612844	21	5 6.6	20.2
315570 2008 CY_{50}	16.1	X	344.89936	4.79391	149.56691	13.52329	0.1857626	0.21576946	2.7530202	21	—	—
315571 2008 CX_{53}	16.5	X	3.87603	281.76823	299.66686	11.57231	0.1690809	0.23427809	2.6060431	21	3 30.7	19.4
315572 2008 CV_{55}	17.1	X	138.17225	332.04529	96.36782	4.06235	0.2327547	0.23729743	2.5838900	21	4 19.9	21.2
315573 2008 CT_{58}	17.2	X	127.67290	233.38101	167.10674	4.14685	0.0980239	0.22803244	2.6534136	21	2 15.6	20.7
315574 2008 CX_{58}	17.0	X	349.17902	78.80707	173.38388	3.65939	0.0675379	0.23929497	2.5694904	21	5 4.4	20.0
315575 2008 CP_{59}	16.6	X	16.20049	320.52481	152.10264	12.65055	0.2410755	0.21996499	2.7179013	21	—	—
315576 2008 CY_{66}	15.9	X	289.19907	283.26138	334.00069	15.65191	0.1698601	0.22115531	2.7081402	21	2 7.0	19.9
315577 Carmenchu	16.9	X	156.52201	31.36514	75.55100	3.02264	0.0760765	0.24695293	2.5160924	21	6 12.9	20.5
315578 2008 CT_{73}	16.5	X	28.92395	95.10288	137.04498	24.32940	0.0942852	0.24318778	2.5419961	21	6 15.9	19.9
315579 2008 CH_{74}	17.2	X	81.70838	153.85637	43.32967	5.67516	0.1299583	0.24296871	2.5435239	21	7 21.8	20.6
315580 2008 CL_{75}	17.0	X	171.35611	264.12974	142.49577	11.50110	0.2012073	0.24084509	2.5584534	21	4 22.2	21.4
315581 2008 CP_{76}	17.0	X	81.35657	34.54578	98.19744	4.95690	0.0783470	0.23732687	2.5836764	21	4 15.2	20.3
315582 2008 CV_{76}	16.5	X	119.01711	335.71979	74.96732	3.59251	0.0995925	0.22958825	2.6414128	21	2 20.1	20.0
315583 2008 CF_{86}	17.3	X	79.81083	54.17494	96.89016	3.78655	0.1361574	0.23660491	2.5889294	21	5 15.9	20.5
315584 2008 CM_{86}	17.1	X	163.24322	55.25007	348.53143	16.31222	0.1498482	0.23438741	2.6052328	21	3 30.9	21.3
315585 2008 CJ_{88}	16.7	X	125.45583	26.35688	75.83670	4.49453	0.1474373	0.23831974	2.5764954	21	5 10.2	20.4
315586 2008 CQ_{88}	16.6	X	94.17107	280.04222	111.89335	7.20804	0.0693966	0.21567677	2.7538089	21	—	—
315587 2008 CM_{90}	16.6	X	117.12029	278.57671	150.83810	5.71545	0.1232821	0.23455996	2.6039549	21	3 15.9	20.2
315588 2008 CJ_{103}	17.4	X	138.97045	173.69482	296.03394	5.31160	0.1805624	0.24302555	2.5431272	21	6 5.2	21.3
315589 2008 CC_{117}	16.5	X	119.61385	60.53348	29.50467	12.04923	0.2457577	0.23955121	2.5676577	21	4 27.6	20.3
315590 2008 CZ_{117}	17.3	X	148.42193	74.73525	329.48556	7.65741	0.1336832	0.23376271	2.6098721	21	3 17.6	21.1
315591 2008 CM_{119}	16.3	X	340.89314	46.81356	95.35546	8.07018	0.1402939	0.21250032	2.7811836	21	—	—
315592 2008 CU_{124}	16.6	X	140.30654	291.30825	151.75889	13.38636	0.1739881	0.23839643	2.5759428	21	5 7.5	20.8
315593 2008 CY_{126}	16.6	X	343.36081	92.00186	149.93025	11.98032	0.1488005	0.23317495	2.6142560	21	4 4.3	19.6
315594 2008 CL_{130}	15.5	X	30.31123	331.92492	328.75901	13.58780	0.0880032	0.18271994	3.0757102	21	9 10.9	19.6
315595 2008 CK_{131}	17.2	X	173.99303	69.97094	337.97370	4.65035	0.2813487	0.24208116	2.5497370	21	4 22.7	21.8
315596 2008 CG_{132}	16.6	X	333.22986	291.62682	321.12274	6.57325	0.0541683	0.23476497	2.6024388	21	4 7.9	19.9
315597 2008 CO_{140}	16.9	X	154.43597	283.47544	161.35471	9.49598	0.0740804	0.23865181	2.5741048	21	5 14.8	20.7
315598 2008 CG_{150}	16.9	X	36.27217	249.95703	300.99559	3.32934	0.1271257	0.23399088	2.6081752	21	4 25.7	19.8
315599 2008 CF_{152}	17.0	X	31.52174	46.88853	207.08237	4.38595	0.2186990	0.24165601	2.5527267	21	8 3.2	19.5
315600 2008 CG_{154}	16.9	X	194.39239	283.63162	26.66726	6.54242	0.0245161	0.21712172	2.7415775	21	1 8.4	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315601 2008 CS_{157}	16.7	X	94.30485	169.87791	271.22027	4.88393	0.1732372	0.23007764	2.6376659	21	3 5.6	20.1
315602 2008 CN_{160}	16.5	X	51.14657	142.23050	306.42984	4.99030	0.0498719	0.21680710	2.7442292	21	1 1.8	19.9
315603 2008 CJ_{163}	16.2	X	156.21388	89.58188	322.28993	21.60341	0.1181540	0.23840609	2.5758732	21	3 23.9	20.5
315604 2008 CK_{168}	15.9	X	264.26158	93.32253	117.03737	8.50094	0.0796689	0.20884053	2.8135816	21	—	—
315605 2008 CX_{175}	16.8	X	72.31644	134.56283	2.97283	12.97056	0.1884342	0.23269052	2.6178831	21	4 18.9	19.9
315606 2008 CU_{178}	16.5	X	94.08756	136.80343	329.92993	21.72900	0.0385218	0.23358178	2.6112197	21	3 12.8	20.2
315607 2008 CL_{179}	15.7	X	318.38107	75.94497	141.92462	12.94360	0.1954297	0.21790152	2.7350328	21	1 16.6	19.4
315608 2008 CY_{179}	16.7	X	69.16497	50.82437	84.36810	12.88660	0.2088242	0.23180216	2.6245674	21	4 24.5	19.8
315609 2008 CN_{180}	16.8	X	77.17341	244.46763	291.66712	11.89273	0.1912945	0.24070978	2.5594122	21	6 24.9	20.1
315610 2008 CP_{180}	16.4	X	141.27625	166.04210	270.65084	7.87783	0.1124088	0.23712584	2.5851364	21	4 16.9	20.2
315611 2008 CS_{180}	16.6	X	160.64466	80.77191	170.50260	21.61739	0.1882215	0.27086860	2.3657215	21	12 22.7	20.9
315612 2008 CX_{181}	16.0	X	314.87267	93.52012	130.75844	13.21466	0.1286678	0.22213606	2.7001632	21	1 29.6	19.5
315613 2008 CN_{182}	16.6	X	85.07429	332.28210	74.36057	5.84460	0.1276059	0.21869049	2.7284508	21	1 4.2	19.9
315614 2008 CZ_{182}	16.1	X	279.64954	118.58448	121.12118	10.06614	0.1167648	0.21730249	2.7400569	21	1 10.5	20.1
315615 2008 CZ_{184}	18.0	X	126.79972	180.16504	265.33744	0.69819	0.1856992	0.23688438	2.5868928	21	4 23.4	21.9
315616 2008 CP_{192}	16.1	X	329.53265	182.79402	137.48776	3.83796	0.2290815	0.24499952	2.5294488	21	6 18.0	18.3
315617 2008 CW_{194}	15.7	X	33.12956	152.60824	168.92463	9.60321	0.0800488	0.18291527	3.0735202	21	10 16.4	19.8
315618 2008 CD_{199}	17.3	X	47.44267	233.13431	264.76568	2.59197	0.0221532	0.22760217	2.6567567	21	2 24.0	20.9
315619 2008 CE_{199}	17.5	X	21.42670	305.12793	218.13178	2.40908	0.0410026	0.22709674	2.6606971	21	2 21.5	20.9
315620 2008 CM_{199}	17.3	X	105.59193	293.13426	162.31280	2.92522	0.0339460	0.22763262	2.6565198	21	3 22.1	20.8
315621 2008 CQ_{199}	16.7	X	122.58745	64.32001	349.35172	7.25178	0.1428057	0.22514838	2.6760250	21	3 5.7	20.5
315622 2008 CW_{199}	16.6	X	132.05523	23.08476	356.83252	5.81104	0.0448398	0.21605379	2.7506044	21	1 23.2	20.4
315623 2008 CZ_{200}	16.7	X	156.61901	357.37724	353.14879	6.00984	0.0653001	0.21533524	2.7567199	21	1 18.6	20.6
315624 2008 CF_{204}	16.5	X	126.71684	252.87279	98.92699	4.45424	0.0863033	0.21305957	2.7763147	21	—	—
315625 2008 CS_{205}	16.5	X	129.88516	265.45014	134.27818	6.00065	0.0839419	0.22695069	2.6618386	21	2 16.7	20.0
315626 2008 CY_{205}	17.5	X	88.79605	60.46974	75.64324	4.37847	0.1407746	0.23705808	2.5856290	21	5 8.8	20.7
315627 2008 CV_{209}	17.3	X	144.09419	278.77384	155.19125	9.33017	0.1642142	0.23927434	2.5696381	21	4 27.6	21.3
315628 2008 CD_{210}	17.0	X	150.16758	265.76934	194.16547	5.41604	0.0844184	0.24667577	2.5179768	21	5 28.5	20.6
315629 2008 CE_{213}	16.7	X	86.39065	217.97399	278.68944	6.52780	0.1229420	0.23466121	2.6032059	21	4 30.3	20.1
315630 2008 CU_{215}	16.0	X	79.70564	33.54841	358.22842	14.18543	0.2124054	0.20994930	2.8036670	21	—	—
315631 2008 DV_{5}	17.5	X	109.51525	101.60688	347.48268	2.10574	0.1606089	0.23646770	2.5899308	21	4 4.6	21.1
315632 2008 DC_{14}	16.4	X	282.27912	134.42730	138.32308	12.50251	0.1625604	0.22565354	2.6720297	21	2 16.8	20.2
315633 2008 DC_{15}	16.8	X	23.43009	285.75660	323.91598	4.49237	0.1870270	0.23930209	2.5694394	21	7 7.2	19.0
315634 2008 DL_{18}	17.3	X	44.59541	92.44383	138.57724	5.78692	0.1605837	0.24199275	2.5503580	21	7 16.0	19.9
315635 2008 DN_{20}	17.7	X	104.62884	141.54976	24.22531	1.38046	0.1330591	0.24375620	2.5380428	21	7 7.3	21.1
315636 2008 DF_{26}	16.2	X	4.97641	58.69349	100.15672	14.21428	0.1454131	0.22066082	2.7121845	21	1 16.4	19.1
315637 2008 DN_{26}	17.0	X	35.84976	351.06967	184.06024	4.24888	0.1845710	0.23049328	2.6344940	21	4 8.4	19.2
315638 2008 DG_{28}	17.4	X	112.72458	134.38500	318.97780	1.51264	0.1805252	0.23457203	2.6038656	21	4 16.9	20.9
315639 2008 DK_{30}	17.4	X	16.74103	79.34629	150.34352	0.77067	0.1138837	0.23444907	2.6047760	21	5 17.7	19.9
315640 2008 DD_{32}	16.8	X	334.77440	68.16656	147.71481	11.87997	0.1311585	0.22420018	2.6835647	21	2 14.0	20.2
315641 2008 DG_{32}	17.1	X	100.96710	34.17014	92.02853	3.60589	0.1469829	0.23610149	2.5926083	21	5 12.8	20.6
315642 2008 DS_{33}	16.3	X	134.77170	343.40003	102.99636	9.53481	0.1222663	0.23742551	2.5829607	21	4 30.6	20.2
315643 2008 DV_{33}	16.7	X	95.23653	38.56474	83.11722	14.58445	0.2034679	0.23453313	2.6041535	21	5 11.4	20.3
315644 2008 DL_{34}	15.5	X	167.97457	216.88255	352.47229	8.74020	0.0526687	0.18852025	3.0122941	21	10 29.2	20.1
315645 2008 DS_{34}	16.3	X	113.81010	110.57998	320.29721	13.58483	0.1094829	0.22931178	2.6435354	21	3 6.8	20.1
315646 2008 DP_{37}	16.8	X	136.95944	29.34331	356.09542	5.80215	0.0321788	0.21877285	2.7277659	21	2 2.9	20.6
315647 2008 DX_{37}	16.2	X	329.57832	278.40967	344.08287	6.98476	0.2403990	0.22777537	2.6554097	21	3 21.5	19.2
315648 2008 DR_{38}	16.5	X	93.33618	118.34650	352.31348	12.79465	0.1573662	0.22929948	2.6436300	21	4 8.7	20.0
315649 2008 DF_{44}	17.0	X	36.23205	67.17459	88.61608	4.69618	0.1404842	0.22555247	2.6728279	21	3 12.2	19.8
315650 2008 DA_{46}	16.6	X	169.12780	219.32573	93.87387	6.26717	0.1507731	0.21189253	2.7864994	21	—	—
315651 2008 DH_{46}	17.4	X	142.71630	24.03626	69.46065	4.66377	0.0821070	0.23920413	2.5701409	21	5 11.1	21.0
315652 2008 DZ_{46}	17.2	X	102.79560	3.84527	144.00994	5.40956	0.1773516	0.23805537	2.5784026	21	6 16.9	20.8
315653 2008 DO_{47}	16.4	X	315.26139	199.88875	23.23077	5.16138	0.0514439	0.22070294	2.7118394	21	2 11.3	20.0
315654 2008 DX_{47}	17.0	X	81.53882	16.57729	38.37154	2.45680	0.0510697	0.21400342	2.7681455	21	1 1.9	20.6
315655 2008 DR_{48}	16.6	X	59.24905	42.48162	110.89581	22.65578	0.0425945	0.23331840	2.6131844	21	4 16.5	20.5
315656 2008 DO_{53}	17.4	X	7.75639	299.54085	206.72463	2.78474	0.1302145	0.21864007	2.7288702	21	1 5.6	20.6
315657 2008 DR_{55}	16.5	X	53.22590	342.11427	130.20298	4.27713	0.0463716	0.22213352	2.7001837	21	2 2.5	19.9
315658 2008 DU_{56}	16.2	X	329.25060	133.58085	92.97564	13.37728	0.1301208	0.22311377	2.6922691	21	2 25.8	19.8
315659 2008 DX_{57}	16.5	X	3.36224	296.37061	305.78717	11.79311	0.2346101	0.23166123	2.6256317	21	4 28.3	18.9
315660 2008 DE_{58}	16.0	X	42.42747	53.63998	101.16126	13.41787	0.0678658	0.22720313	2.6598665	21	3 22.1	19.5
315661 2008 DH_{60}	16.7	X	149.08981	52.86361	183.74202	10.94675	0.0688024	0.26547821	2.3976371	21	11 26.9	20.2
315662 2008 DO_{60}	16.7	X	122.08475	247.29180	120.88143	2.83386	0.0698247	0.21531394	2.7569017	21	—	—
315663 2008 DW_{60}	17.1	X	78.47146	347.19084	126.74865	3.11337	0.1605715	0.23026179	2.6362594	21	3 28.5	20.1
315664 2008 DD_{61}	17.2	X	89.58362	5.33377	137.94752	4.51670	0.0774732	0.23648236	2.5898238	21	5 10.6	20.5
315665 2008 DN_{61}	16.9	X	342.81572	76.28930	132.62546	4.13945	0.0520256	0.22640496	2.6661143	21	2 27.8	20.1
315666 2008 DT_{72}	16.8	X	298.88556	273.01603	337.22575	5.17877	0.1315913	0.22434837	2.6823829	21	2 11.5	20.5
315667 2008 DR_{73}	16.3	X	284.86076	65.76532	4.71077	9.08281	0.0390780	0.18496042	3.0508218	21	9 30.6	20.5
315668 2008 DA_{77}	16.1	X	202.57086	114.25938	102.21314	3.38374	0.0211911	0.19713859	2.9238490	21	12 22.7	20.0
315669 2008 DH_{79}	17.0	X	92.83344	354.64756	142.71938	12.69117	0.1335406	0.23566049	2.5958417	21	5 18.4	20.7
315670 2008 DS_{79}	16.1	X	186.64711	327.44276	79.81753	14.59263	0.2845794	0.24272639	2.5452164	21	5 6.9	20.8
315671 2008 DF_{83}	17.0	X	346.55128	298.27530	223.12518	2.54195	0.1205579	0.21468470	2.7622860	21	—	—
315672 2008 DJ_{88}	15.6	X	94.62359	249.59271	35.71395	10.71402	0.0830373	0.19016228	2.9949286	21	11 14.2	20.0
315673 2008 EO_{4}	17.1	X	91.15746	45.62302	61.77492	6.57985	0.1374035	0.23052426	2.6342579	21	4 5.3	20.5
315674 2008 EA_{5}	16.0	X	50.57420	248.58850	316.38722	28.29916	0.1345592	0.23799718	2.5788228	21	6 18.7	19.6
315675 2008 EJ_{7}	16.3	X	76.32556	152.60563	3.64154	13.44704	0.2051265	0.23245382	2.6196600	21	5 24.5	19.8
315676 2008 ER_{8}	15.8	X	93.48800	92.23962	359.11159	21.95085	0.0460669	0.22566942	2.6719044	21	3 7.1	19.3
315677 2008 EV_{10}	16.2	X	210.20382	183.58085	120.78982	6.68335	0.0541626	0.21717784	2.7411052	21	1 19.1	20.1
315678 2008 EA_{11}	17.0	X	75.67379	70.48668	94.98246	4.86632	0.1262990	0.23663298	2.5887247	21	5 28.1	20.1
315679 2008 EL_{11}	16.7	X	127.71859	303.47254	139.26142	9.93547	0.1610157	0.23336189	2.6128597	21	4 22.6	20.7
315680 2008 EW_{15}	16.4	X	16.47185	0.98119	178.97396	13.09919	0.1272004	0.22462918	2.6801469	21	3 5.7	19.4

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
315681	2008 EC_{19}	16.7	X	73.34561	149.26014	330.53085	6.73877	0.1459070	0.23004542	2.6379121	21	3 22.2	19.8
315682	2008 EL_{23}	15.9	X	37.07632	104.95888	28.43715	15.48475	0.0390926	0.22176196	2.7031990	21	2 14.6	19.7
315683	2008 EQ_{26}	15.9	X	170.64908	79.57592	315.65314	12.01594	0.1844014	0.23252297	2.6191406	21	3 28.1	20.3
315684	2008 EP_{28}	16.0	X	331.62488	97.81471	119.55993	13.85916	0.0553654	0.22367513	2.6877627	21	2 25.6	19.6
315685	2008 EJ_{29}	16.5	X	341.51500	127.54239	28.86864	8.29128	0.1590505	0.21263790	2.7799838	21	—	—
315686	2008 EP_{33}	16.2	X	132.61473	253.95789	227.14027	12.25444	0.2518302	0.24365161	2.5387691	21	6 19.1	20.5
315687	2008 EE_{34}	16.4	X	320.25399	284.46137	317.06868	11.42049	0.1235940	0.22622874	2.6674986	21	2 25.2	19.8
315688	2008 EK_{36}	16.1	X	294.01887	184.72352	51.74855	5.12025	0.1006850	0.21720371	2.7408876	21	1 25.9	20.1
315689	2008 EF_{37}	16.8	X	140.89788	94.68596	336.15252	8.81656	0.0240169	0.23699131	2.5861146	21	3 29.3	20.3
315690	2008 EM_{41}	16.2	X	187.48000	192.12863	106.57350	7.98348	0.0600689	0.21328578	2.7743513	21	—	—
315691	2008 EV_{42}	16.3	X	333.55328	79.85198	108.43849	3.08578	0.0601515	0.21557425	2.7546819	21	1 20.0	19.8
315692	2008 EG_{47}	16.5	X	39.98571	50.83087	57.00470	7.01310	0.0206802	0.21281684	2.7784253	21	1 11.9	20.2
315693	2008 EU_{51}	16.2	X	312.63482	113.30189	120.04079	7.85046	0.1118168	0.22299806	2.6932003	21	2 10.5	19.8
315694	2008 ED_{55}	17.0	X	8.89369	11.21807	152.95535	4.55053	0.1797001	0.22004636	2.7172312	21	1 26.2	19.6
315695	2008 EH_{55}	16.3	X	169.78942	275.53508	119.62793	7.08174	0.0315576	0.22656258	2.6648776	21	3 27.7	20.1
315696	2008 EW_{56}	16.4	X	98.22481	341.26632	132.39068	8.45442	0.1640224	0.23336507	2.6128360	21	4 27.9	20.0
315697	2008 EW_{60}	16.5	X	161.63892	181.06232	180.13522	6.30301	0.0645836	0.21804407	2.7338406	21	2 2.9	20.5
315698	2008 EJ_{73}	16.7	X	36.71652	59.63538	135.71480	6.12059	0.0922822	0.23220947	2.6214974	21	5 4.8	19.8
315699	2008 EF_{74}	16.2	X	105.20800	290.48928	84.41466	4.74085	0.1051889	0.20949642	2.8077061	21	—	—
315700	2008 EX_{81}	17.3	X	61.81343	11.57771	168.69860	4.84792	0.1727140	0.23617524	2.5920685	21	6 4.2	20.3
315701	2008 EE_{83}	16.1	X	331.32184	232.65865	331.05836	10.26284	0.1551289	0.21994603	2.7180575	21	1 23.8	19.6
315702	2008 EX_{83}	17.0	X	145.54542	64.67064	185.71515	9.30109	0.0667077	0.26841771	2.3801004	21	12 10.1	20.5
315703	2008 ET_{85}	17.3	X	59.71194	136.41274	305.08252	1.08197	0.0524926	0.21952011	2.7215721	21	1 3.9	20.8
315704	2008 EY_{85}	16.8	X	45.21066	57.17818	164.63790	13.77158	0.1590540	0.23818035	2.5775005	21	7 2.9	19.9
315705	2008 EB_{90}	15.8	X	276.73955	249.42103	7.08305	11.12359	0.1394373	0.21659128	2.7460519	21	1 29.4	20.1
315706	2008 EP_{90}	16.0	X	313.64279	10.36041	170.65465	9.43179	0.1055458	0.21175010	2.7877488	21	—	—
315707	2008 EC_{95}	16.8	X	350.95053	84.69285	82.68569	4.39213	0.1300410	0.21617503	2.7495758	21	1 8.2	20.0
315708	2008 ED_{95}	16.1	X	290.41172	97.04991	145.58251	5.94323	0.1306516	0.21540751	2.7561033	21	1 24.0	20.2
315709	2008 EP_{98}	16.2	X	289.01071	77.03909	102.52218	4.22909	0.0581620	0.21135767	2.7911984	21	—	—
315710	2008 EL_{99}	16.8	X	97.39098	61.88715	87.49812	6.12778	0.1945428	0.23699412	2.5860941	21	6 14.7	20.5
315711	2008 EB_{105}	17.0	X	113.48690	342.30118	33.38801	7.14668	0.1085033	0.21562557	2.7542448	21	1 2.9	20.7
315712	2008 EF_{109}	15.8	X	139.84776	128.25392	72.60766	6.83238	0.1071654	0.18086154	3.0967435	21	9 26.6	20.7
315713	2008 EH_{111}	16.4	X	173.04595	251.91162	110.80535	7.66974	0.0514589	0.22201886	2.7011133	21	2 19.3	20.2
315714	2008 EN_{111}	16.6	X	213.56918	158.41640	137.70002	7.60346	0.1150138	0.21466147	2.7624853	21	1 13.2	21.0
315715	2008 EC_{112}	17.4	X	65.50989	45.73500	45.76307	1.97910	0.0350913	0.22114276	2.7082426	21	1 23.7	20.9
315716	2008 EL_{113}	15.7	X	278.87781	33.06976	317.16338	14.13070	0.1250471	0.24357841	2.5392776	21	5 23.6	19.5
315717	2008 ER_{115}	16.8	X	8.39561	263.06870	174.77937	1.92285	0.0612670	0.20398806	2.8580263	21	—	—
315718	2008 EJ_{117}	17.0	X	352.36267	54.29890	169.29431	4.12680	0.1600430	0.22590704	2.6700304	21	3 21.8	19.7
315719	2008 ET_{119}	16.8	X	24.39314	88.69323	16.19816	4.98876	0.1181856	0.21416255	2.7667740	21	—	—
315720	2008 EF_{120}	16.6	X	102.90490	282.35088	173.85288	8.85107	0.1285358	0.22881640	2.6473496	21	4 3.5	20.1
315721	2008 EC_{122}	17.3	X	241.76028	274.99722	351.45947	3.37901	0.0558119	0.21325617	2.7746081	21	1 8.8	21.3
315722	2008 EY_{125}	16.9	X	316.27106	218.46108	336.47265	0.84812	0.0206537	0.21455328	2.7634139	21	1 11.9	20.6
315723	2008 EB_{131}	17.0	X	28.17366	22.02481	86.47167	4.56092	0.1552172	0.21676856	2.7445544	21	—	—
315724	2008 EX_{131}	16.9	X	336.22512	159.81592	21.13411	9.23414	0.1122920	0.21715730	2.7412780	21	1 7.9	20.6
315725	2008 EB_{135}	16.9	X	41.39101	82.40613	57.49851	3.95016	0.0661842	0.22269334	2.6956566	21	2 24.2	20.2
315726	2008 EF_{135}	17.4	X	84.97240	92.92010	34.01036	4.31466	0.2284109	0.23223364	2.6213155	21	5 4.1	20.7
315727	2008 EV_{136}	17.8	X	88.83440	358.30713	128.41263	2.89318	0.1090332	0.23073923	2.6326215	21	4 22.0	21.1
315728	2008 EN_{139}	16.9	X	31.83587	217.77936	318.94879	3.61497	0.1085206	0.22977666	2.6399687	21	3 27.4	19.7
315729	2008 ES_{141}	17.4	X	61.64627	167.79448	11.58614	9.92615	0.1387879	0.23687335	2.5869731	21	5 24.2	20.6
315730	2008 EK_{143}	16.7	X	40.74457	17.33622	107.63983	13.25177	0.2391232	0.22321735	2.6914362	21	2 9.0	18.9
315731	2008 EM_{148}	16.7	X	244.41816	284.68417	345.46066	2.47933	0.0648759	0.21487925	2.7606185	21	1 15.3	20.8
315732	2008 EH_{150}	16.8	X	42.20028	234.09614	188.01260	6.38972	0.0716109	0.20690787	2.8310750	21	—	—
315733	2008 EY_{150}	16.4	X	34.71512	123.63875	55.45431	14.07571	0.1190809	0.22384280	2.6864203	21	4 14.0	19.5
315734	2008 EZ_{152}	16.8	X	131.14608	263.97854	106.02669	5.44291	0.0801324	0.21164507	2.7886710	21	1 14.2	20.7
315735	2008 EN_{156}	17.1	X	284.27485	84.30483	194.27609	5.81238	0.0494471	0.22490503	2.6779550	21	3 11.1	20.7
315736	2008 EG_{160}	16.6	X	75.20584	348.39924	60.90755	6.98790	0.0271088	0.21199230	2.7856250	21	—	—
315737	2008 EL_{165}	15.9	X	156.50266	246.17161	157.03471	21.88227	0.0569357	0.22726893	2.6593531	21	3 23.7	19.8
315738	2008 EG_{167}	16.4	X	196.65237	57.61128	261.05982	2.68413	0.0860063	0.21481398	2.7611776	21	1 22.7	20.6
315739	2008 EK_{168}	15.3	X	167.59835	204.23080	84.95909	14.00252	0.0944851	0.20283619	2.8688363	21	—	—
315740	2008 FK_{2}	15.9	X	201.91165	27.87673	340.92357	13.85414	0.2008900	0.23202611	2.6228783	21	3 24.9	20.5
315741	2008 FN_{2}	16.6	X	164.97527	115.27095	215.43362	0.27246	0.0716645	0.21434790	2.7651789	21	1 3.3	20.6
315742	2008 FC_{4}	16.8	X	98.15667	221.78477	181.45646	12.34281	0.1397120	0.21848626	2.7301508	21	1 18.4	20.5
315743	2008 FV_{4}	17.1	X	290.67140	242.44349	8.14121	1.34213	0.0618378	0.22001903	2.7174562	21	2 12.1	20.9
315744	2008 FQ_{7}	16.7	X	345.36952	78.43824	119.30757	6.06901	0.0507957	0.22035863	2.7146635	21	2 18.5	20.1
315745	2008 FS_{10}	16.9	X	154.13862	9.20741	321.86192	3.82795	0.0727852	0.21316283	2.7754180	21	—	—
315746	2008 FZ_{10}	16.5	X	165.46445	263.05845	116.83764	4.77358	0.1123226	0.22812399	2.6527037	21	3 8.0	20.4
315747	2008 FK_{14}	17.1	X	333.04023	27.70684	184.27402	4.59153	0.0544975	0.22266688	2.6958701	21	2 16.6	20.5
315748	2008 FM_{14}	16.5	X	63.15055	70.44297	359.88897	6.05901	0.0314360	0.21328344	2.7743716	21	—	—
315749	2008 FD_{15}	16.3	X	75.13897	148.00697	158.19640	10.30558	0.0821325	0.18264537	3.0765474	21	11 20.2	20.9
315750	2008 FR_{24}	15.8	X	355.33513	245.44850	111.32250	8.56743	0.1801781	0.17708434	3.1406239	21	10 12.5	19.4
315751	2008 FP_{26}	16.1	X	350.05208	159.60408	22.63045	13.95575	0.1489296	0.21729493	2.7401204	21	1 28.6	19.6
315752	2008 FE_{27}	15.9	X	190.57091	192.86960	27.40432	12.03370	0.0402876	0.18953186	3.0015661	21	12 8.2	20.4
315753	2008 FB_{35}	17.1	X	13.76018	179.95670	20.35686	1.86565	0.1335904	0.22921571	2.6442741	21	3 30.1	19.7
315754	2008 FG_{38}	16.7	X	10.78660	60.01712	66.32046	5.03690	0.0524225	0.21148604	2.7900688	21	—	—
315755	2008 FO_{38}	17.1	X	63.00204	22.39398	117.29519	4.09772	0.1356516	0.22659714	2.6646066	21	4 5.6	20.2
315756	2008 FH_{42}	16.9	X	98.76995	213.49699	188.44413	6.90890	0.0256235	0.21481198	2.7611948	21	1 3.9	20.8
315757	2008 FH_{50}	16.9	X	54.56355	343.33365	100.96016	5.48636	0.0386420	0.21428568	2.7657141	21	—	—
315758	2008 FL_{52}	17.3	X	76.61028	329.91366	159.57737	3.38393	0.0534622	0.22680481	2.6629799	21	3 30.9	20.6
315759	2008 FK_{55}	16.0	X	304.88177	229.45039	192.96519	10.08079	0.0452229	0.18346962	3.0673260	21	10 17.2	20.0
315760	2008 FD_{57}	16.7	X	333.68069	184.58913	35.90167	4.08360	0.1348788	0.21992350	2.7182431	21	2 20.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315761 2008 FY_{59}	16.0	X	42.70259	83.88746	133.43663	12.03739	0.1382155	0.23413182	2.6071284	21	6 20.1	19.0
315762 2008 FS_{63}	16.1	X	52.20310	246.87797	167.08121	11.77273	0.0647313	0.20431501	2.8549765	21	—	—
315763 2008 FK_{64}	16.7	X	156.81721	37.64677	317.88807	2.07331	0.0931379	0.21763610	2.7372561	21	1 26.2	20.5
315764 2008 FP_{65}	17.5	X	41.19394	114.45222	48.81054	2.77699	0.1374766	0.22479619	2.6788193	21	3 30.6	20.2
315765 2008 FW_{68}	16.0	X	109.84404	205.15161	78.78774	3.68015	0.0868310	0.18510672	3.0492141	21	11 29.9	20.6
315766 2008 FU_{69}	15.6	X	89.33604	294.10086	35.57158	10.64283	0.1206592	0.18729538	3.0254130	21	—	—
315767 2008 FY_{69}	16.5	X	146.43205	162.27858	106.45518	0.52921	0.1007956	0.18774303	3.0206020	21	12 18.9	21.2
315768 2008 FM_{75}	17.1	X	124.65197	255.46133	276.81398	2.10511	0.1219593	0.24283221	2.5444770	21	8 6.2	20.7
315769 2008 FA_{76}	16.4	X	32.10638	110.03793	87.93586	13.72057	0.1939724	0.23032254	2.6357958	21	5 11.0	19.0
315770 2008 FG_{76}	16.1	X	303.65259	108.97172	141.42825	14.30578	0.1362542	0.21967076	2.7203277	21	2 17.4	19.7
315771 2008 FV_{80}	17.9	X	100.01466	264.83166	203.57409	2.45304	0.2456216	0.23190199	2.6238142	21	5 1.9	21.5
315772 2008 FK_{87}	16.7	X	298.06236	225.92984	16.36311	10.91897	0.1367269	0.21806367	2.7336769	21	2 4.8	20.8
315773 2008 FR_{94}	16.3	X	276.70467	191.38012	87.32210	4.59698	0.1606949	0.21710153	2.7417476	21	2 20.9	20.4
315774 2008 FU_{96}	16.6	X	4.18611	79.97557	122.78760	6.15806	0.1161859	0.22424199	2.6832312	21	3 20.7	19.6
315775 2008 FP_{102}	16.1	X	22.12126	257.18583	81.52140	9.87984	0.0953116	0.17696932	3.1419846	21	10 25.6	20.3
315776 2008 FT_{103}	16.0	X	73.40088	208.61604	95.63297	6.13133	0.1285876	0.17943910	3.1130875	21	11 20.0	20.6
315777 2008 FO_{104}	16.7	X	108.36029	7.80296	176.30086	4.75959	0.1802731	0.24061276	2.5601001	21	8 9.3	20.6
315778 2008 FU_{104}	16.1	X	33.29854	337.45387	55.99965	11.90731	0.0666387	0.19089940	2.9872140	21	—	—
315779 2008 FO_{105}	16.8	X	354.28882	134.43052	62.21091	5.53872	0.0721918	0.22174866	2.7033071	21	2 28.9	20.1
315780 2008 FG_{109}	16.6	X	42.71740	25.04137	98.89457	3.43005	0.0164026	0.21832167	2.7315228	21	2 3.3	20.3
315781 2008 FR_{109}	16.5	X	200.21180	220.83716	68.81035	4.38750	0.0546024	0.20894621	2.8126329	21	—	—
315782 2008 FO_{114}	17.1	X	315.16492	156.01687	43.15593	4.65011	0.0338903	0.21487747	2.7606338	21	1 14.6	20.9
315783 2008 FV_{115}	16.5	X	207.43878	143.54981	107.41843	3.20707	0.0157450	0.20314901	2.8658904	21	—	—
315784 2008 FY_{115}	17.0	X	208.48938	173.09448	78.89894	3.18062	0.0149856	0.20343542	2.8631999	21	—	—
315785 2008 FJ_{116}	17.6	X	65.73007	49.71531	100.97382	3.11413	0.1402280	0.23023880	2.6364349	21	4 25.0	20.7
315786 2008 FM_{123}	15.7	X	10.01647	306.45773	36.39829	9.65389	0.0977407	0.17434355	3.1734535	21	10 10.7	19.7
315787 2008 FN_{125}	16.7	X	353.93573	78.41037	148.89427	3.82482	0.1246089	0.22560097	2.6724448	21	4 3.9	19.7
315788 2008 FO_{129}	15.7	X	44.56324	141.62980	210.34730	9.76392	0.0642564	0.18640328	3.0350581	21	12 4.9	19.9
315789 2008 FC_{130}	15.9	X	246.90759	100.66986	43.21819	10.93893	0.0606707	0.19158821	2.9800498	21	11 10.6	20.1
315790 2008 FF_{131}	16.5	X	173.14468	291.58982	63.05889	6.91986	0.0527012	0.21693015	2.7431913	21	2 11.2	20.5
315791 2008 FM_{131}	17.4	X	111.75574	164.87696	349.24088	5.92317	0.0658312	0.24534435	2.5270781	21	6 20.8	20.9
315792 2008 FV_{133}	16.3	X	236.45060	53.19057	139.55203	2.87689	0.0397483	0.19707184	2.9245093	21	12 31.7	20.5
315793 2008 GK_{1}	16.6	X	354.13643	247.47418	356.28926	7.50039	0.1779069	0.22817618	2.6522992	21	4 18.3	19.2
315794 2008 GA_{2}	16.2	X	3.14148	344.09091	226.12441	12.78839	0.1924398	0.22301964	2.6930266	21	3 15.2	19.2
315795 2008 GW_{3}	16.8	X	207.34594	127.59776	227.10887	5.38713	0.0221499	0.22406860	2.6846152	21	3 16.1	20.7
315796 2008 GA_{7}	15.9	X	105.46660	181.75611	39.65210	11.95526	0.1412053	0.17302302	3.1895797	21	9 20.7	20.9
315797 2008 GN_{7}	16.1	X	190.12254	59.31429	167.52294	5.55987	0.0293191	0.19141922	2.9818035	21	12 18.9	20.5
315798 2008 GU_{7}	16.6	X	59.55453	89.21032	43.18402	13.86011	0.2333677	0.22490449	2.6779593	21	4 6.7	19.4
315799 2008 GE_{8}	17.8	X	110.93696	169.64687	299.86572	1.66368	0.1542176	0.23499293	2.6007554	21	5 2.5	21.4
315800 2008 GS_{15}	16.9	X	2.77376	98.87254	37.16585	4.08357	0.0396041	0.21158161	2.7892286	21	—	—
315801 2008 GT_{16}	16.3	X	280.93997	86.20566	160.78006	8.02970	0.1763774	0.21145119	2.7903753	21	1 14.7	20.8
315802 2008 GH_{23}	16.0	X	36.90053	332.26403	135.62515	5.24391	0.0205038	0.21301388	2.7767116	21	1 6.7	19.6
315803 2008 GS_{23}	16.6	X	139.53266	225.59868	55.82665	7.25716	0.1520005	0.19163411	2.9795740	21	12 28.3	21.5
315804 2008 GA_{27}	16.6	X	191.04863	326.72906	15.00894	6.29160	0.0467677	0.22252485	2.6970171	21	2 13.9	20.5
315805 2008 GV_{31}	15.8	X	348.85198	276.19212	77.11300	10.70024	0.1077452	0.17429543	3.1740374	21	9 25.2	19.9
315806 2008 GX_{38}	15.7	X	102.13667	206.08861	71.68126	8.28224	0.1133501	0.17953104	3.1120245	21	11 17.0	20.4
315807 2008 GU_{42}	17.0	X	116.88645	78.14853	5.84399	4.69370	0.0992557	0.22742981	2.6580988	21	3 30.7	20.5
315808 2008 GC_{55}	16.6	X	115.51655	149.00260	134.59305	2.64137	0.1438550	0.18692740	3.0293822	21	12 9.1	21.5
315809 2008 GZ_{59}	17.3	X	125.82917	328.27341	203.54909	3.83204	0.1786654	0.24328308	2.5413322	21	8 10.7	21.3
315810 2008 GO_{62}	16.1	X	292.85073	242.09925	19.26530	11.42166	0.1558141	0.21823777	2.7322227	21	2 20.5	20.2
315811 2008 GR_{64}	16.4	X	209.18115	161.79712	86.81727	3.39722	0.0453992	0.20254833	2.8715536	21	—	—
315812 2008 GL_{72}	16.8	X	38.67457	232.91863	187.98393	5.52566	0.0631634	0.20514803	2.8472427	21	—	—
315813 2008 GE_{73}	16.9	X	261.26148	256.10637	39.84550	2.93807	0.0293200	0.22302315	2.6929983	21	3 10.1	20.5
315814 2008 GL_{78}	16.7	X	325.16694	76.72883	96.76284	6.90297	0.0699104	0.20858576	2.8158722	21	—	—
315815 2008 GV_{81}	16.7	X	90.86000	271.51958	205.99773	7.18987	0.1913840	0.23278358	2.6171854	21	4 24.2	20.1
315816 2008 GF_{82}	15.6	X	138.28483	154.36379	56.02123	11.98794	0.0512354	0.17892495	3.1190483	21	10 5.3	20.3
315817 2008 GJ_{83}	16.0	X	123.55456	112.00029	171.44639	9.26401	0.1702840	0.18662818	3.0326194	21	12 17.3	21.1
315818 2008 GS_{88}	17.1	X	64.05033	314.74679	171.25469	4.64081	0.1826581	0.22472569	2.6793795	21	3 24.4	20.0
315819 2008 GV_{92}	15.3	X	127.06939	157.14198	96.25732	10.87066	0.0712924	0.18394362	3.0620543	21	11 13.5	20.0
315820 2008 GF_{93}	16.8	X	20.45160	57.96564	151.35071	10.24347	0.1521217	0.22986388	2.6393009	21	4 29.7	19.6
315821 2008 GP_{95}	16.7	X	34.91763	22.07861	87.90750	5.90890	0.1170507	0.21396857	2.7684460	21	1 5.9	19.9
315822 2008 GU_{95}	16.6	X	33.11631	32.06732	58.26594	7.78093	0.0658826	0.20834419	2.8180484	21	—	—
315823 2008 GX_{96}	17.1	X	343.25509	36.96145	154.63579	3.93423	0.2016909	0.21774265	2.7363630	21	1 16.4	20.2
315824 2008 GZ_{96}	16.3	X	298.66380	122.68207	102.95317	4.64792	0.0387223	0.21373077	2.7704991	21	1 26.2	20.0
315825 2008 GT_{97}	16.6	X	280.81845	246.31762	3.26117	3.48535	0.0449057	0.21398938	2.7682665	21	2 2.9	20.5
315826 2008 GP_{100}	16.8	X	5.82946	22.43833	128.51910	1.14898	0.0136751	0.21206585	2.7849809	21	1 21.1	20.5
315827 2008 GH_{103}	17.2	X	245.44432	188.91508	83.44338	1.75669	0.0294046	0.21480091	2.7612897	21	1 21.1	21.0
315828 2008 GB_{106}	16.6	X	36.49481	26.35025	67.93874	2.71373	0.0639679	0.21052817	2.7985253	21	—	—
315829 2008 GY_{112}	16.2	X	349.99200	100.42769	102.21106	13.51098	0.1304906	0.22141406	2.7060299	21	2 25.4	19.6
315830 2008 GE_{118}	16.8	X	5.46564	335.14932	201.30869	4.61624	0.0572996	0.21902861	2.7256420	21	2 16.0	20.2
315831 2008 GY_{123}	16.8	X	297.52241	279.61322	285.84972	3.22349	0.0452427	0.21206884	2.7849547	21	—	—
315832 2008 GA_{124}	15.9	X	92.26021	174.55905	131.53992	10.18467	0.0492356	0.18268163	3.0761402	21	12 4.8	20.5
315833 2008 GG_{127}	15.7	X	90.46725	147.78855	153.91679	12.20543	0.0685690	0.18171350	3.0870565	21	11 30.2	20.4
315834 2008 GD_{129}	16.3	X	108.11454	221.99155	45.13058	0.55419	0.1421872	0.17849729	3.1240283	21	11 11.8	21.3
315835 2008 GV_{131}	16.8	X	301.30324	66.95957	142.64976	5.39755	0.0983760	0.20995745	2.8035945	21	1 1.6	20.8
315836 2008 GW_{133}	15.9	X	287.95387	54.00082	68.66805	8.89170	0.0921961	0.18970427	2.9997471	21	12 3.7	19.6
315837 2008 GZ_{141}	15.5	X	256.27462	126.58961	86.01124	17.87647	0.1056967	0.20241926	2.8727742	21	—	—
315838 2008 HD_{1}	16.9	X	326.22529	96.71323	137.25436	7.22478	0.2439308	0.21835789	2.7312207	21	2 9.4	20.3
315839 2008 HU_{5}	16.1	X	84.71074	163.56504	185.82669	9.22314	0.1113733	0.19541963	2.9409700	21	—	—
315840 2008 HU_{8}	16.0	X	275.66911	24.16855	111.05803	10.82616	0.0231946	0.19021558	2.9943691	21	12 12.2	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315841 2008 HW_8	15.9	X	80.02695	198.76005	109.77771	11.25857	0.0876635	0.18277471	3.0750958	21	11 28.9	20.5
315842 2008 HP_{11}	15.7	X	38.82454	209.60245	115.09376	10.13553	0.0788927	0.17604615	3.1529593	21	10 29.4	20.1
315843 2008 HE_{12}	15.8	X	12.95677	283.31456	100.06416	11.17738	0.0500697	0.18408949	3.0604366	21	12 1.5	20.0
315844 2008 HF_{12}	16.9	X	57.27319	131.37987	76.17578	6.30382	0.2143627	0.23500013	2.6007024	21	7 13.4	19.9
315845 2008 HE_{13}	16.3	X	37.54291	21.42745	37.50108	5.23744	0.1165475	0.20386502	2.8591761	21	—	—
315846 2008 HF_{13}	16.6	X	44.14800	102.36146	14.18815	3.18026	0.1095457	0.21794235	2.7346913	21	1 30.1	19.6
315847 2008 HP_{15}	16.3	X	197.04012	68.03764	169.82149	7.92731	0.0811416	0.19179456	2.9779120	21	—	—
315848 2008 HD_{19}	17.1	X	4.66516	274.47748	216.02568	3.30570	0.1463459	0.21273896	2.7791033	21	—	—
315849 2008 HW_{19}	15.6	X	8.73380	273.56807	107.08512	13.43587	0.0796753	0.18223932	3.0811155	21	11 26.4	19.7
315850 2008 HA_{26}	15.8	X	288.99464	288.78378	119.17646	7.39920	0.0692998	0.17120441	3.2121273	21	9 4.7	20.2
315851 2008 HT_{27}	16.5	X	122.03445	10.00008	21.03164	4.66348	0.0776989	0.21358561	2.7717542	21	1 29.9	20.3
315852 2008 HY_{32}	16.9	X	52.08124	285.84356	166.99358	4.62168	0.0350572	0.20928886	2.8095621	21	1 8.8	20.6
315853 2008 HQ_{33}	16.0	X	195.61240	110.76542	106.12186	10.97112	0.0659966	0.18960315	3.0008136	21	12 10.5	20.5
315854 2008 HJ_{34}	15.6	X	324.14592	316.18516	119.28061	15.43305	0.0444641	0.18559837	3.0438268	21	12 1.9	19.9
315855 2008 HP_{34}	15.7	X	188.51739	94.44315	151.15627	11.96460	0.2037848	0.19095768	2.9866062	21	12 26.6	20.8
315856 2008 HO_{36}	16.2	X	113.47315	190.64865	98.13798	9.98156	0.0441024	0.18476842	3.0529349	21	12 6.9	20.7
315857 2008 HK_{42}	15.7	X	113.26038	153.17013	110.19402	12.59277	0.1417770	0.18034396	3.1026657	21	11 16.4	20.7
315858 2008 HZ_{42}	16.9	X	73.83901	8.20967	159.01578	4.68169	0.1355196	0.23396132	2.6083949	21	5 29.8	20.1
315859 2008 HL_{47}	16.0	X	55.10522	267.56389	110.97458	11.86084	0.0740861	0.19057075	2.9906474	21	—	—
315860 2008 HN_{47}	15.9	X	129.73349	156.05261	149.35673	10.62773	0.0838665	0.18948797	3.0020295	21	—	—
315861 2008 HC_{49}	16.2	X	327.01759	340.12814	71.55079	6.66098	0.1932698	0.18793296	3.0185665	21	10 30.3	19.3
315862 2008 HV_{50}	17.2	X	356.05270	356.93824	190.34744	3.21783	0.1301139	0.21678869	2.7443845	21	2 10.1	20.4
315863 2008 HX_{55}	15.8	X	154.71983	195.93843	125.55666	10.84608	0.0807187	0.19774657	2.9178530	21	—	—
315864 2008 HN_{57}	16.0	X	138.27561	145.13839	134.14709	10.96625	0.0904223	0.18836679	3.0139300	21	12 23.8	20.7
315865 2008 HR_{59}	16.4	X	260.52928	116.63872	87.46847	9.12795	0.1253862	0.19932569	2.9024218	21	—	—
315866 2008 HW_{61}	15.7	X	119.82997	53.28261	231.65879	13.81989	0.0634609	0.18507550	3.0495571	21	12 9.5	20.3
315867 2008 HN_{66}	15.3	X	120.34722	116.20778	107.42095	27.85162	0.1845340	0.17593450	3.1542931	21	10 19.4	21.0
315868 2008 HJ_{67}	16.0	X	23.91828	1.82425	55.05348	9.28677	0.0495170	0.19410722	2.9542116	21	—	—
315869 2008 HH_{70}	15.1	X	246.78332	304.05674	206.38892	23.83583	0.0454608	0.18478543	3.0527476	21	11 20.6	19.6
315870 2008 JD_9	15.2	X	79.96843	160.19173	125.05045	21.84831	0.1875102	0.17635390	3.1492901	21	11 17.5	20.4
315871 2008 JE_9	16.4	X	111.68720	123.11213	153.05461	10.22617	0.0762687	0.18124401	3.0923854	21	11 23.5	21.2
315872 2008 JP_{10}	17.0	X	138.27350	244.16103	152.99221	6.39347	0.0258398	0.21662340	2.7457804	21	2 16.9	20.6
315873 2008 JJ_{12}	15.9	X	350.46035	291.36934	125.06483	12.42208	0.0624480	0.18554499	3.0444106	21	12 12.8	20.0
315874 2008 JX_{12}	16.4	X	231.23930	92.31880	132.60537	8.65975	0.1959740	0.19647331	2.9304457	21	—	—
315875 2008 JB_{21}	15.9	X	126.77623	133.20100	126.35694	8.85006	0.1654305	0.17878101	3.1207223	21	11 23.5	21.1
315876 2008 JA_{24}	15.7	X	324.94341	304.02561	115.22486	12.99728	0.1455903	0.18101231	3.0950237	21	11 9.8	19.5
315877 2008 JB_{28}	16.1	X	172.22616	147.59582	150.63284	11.52234	0.1068966	0.19663024	2.9288863	21	—	—
315878 2008 JJ_{29}	16.7	X	321.65610	119.85532	93.65679	14.54292	0.1140794	0.21509786	2.7587478	21	1 30.2	20.4
315879 2008 JT_{29}	16.1	X	339.45502	314.79043	81.82029	6.24308	0.1120862	0.17880125	3.1204868	21	11 1.9	20.0
315880 2008 JP_{40}	15.6	X	238.71455	323.04569	209.65827	7.72923	0.0323599	0.18656717	3.0332805	21	12 9.6	19.9
315881 2008 KZ	15.6	X	271.78477	48.95515	101.80336	11.15337	0.0497123	0.18958960	3.0009565	21	12 22.1	19.5
315882 2008 KL_7	16.2	X	215.09228	50.11629	135.19091	11.58288	0.0477973	0.18546950	3.0452367	21	11 27.4	20.8
315883 2008 KU_8	17.0	X	22.39108	69.95954	66.35133	9.25536	0.2600530	0.21598902	2.7511542	21	1 10.1	19.3
315884 2008 KM_{14}	15.7	X	355.87668	185.52962	149.95016	12.70924	0.0579064	0.16806446	3.2520119	21	9 6.4	19.9
315885 2008 KL_{17}	15.8	X	240.59944	11.71549	120.28936	11.34515	0.0548162	0.17860681	3.1227512	21	10 24.0	20.4
315886 2008 KZ_{20}	16.9	X	10.08075	45.40748	110.13086	5.97623	0.0997120	0.21247467	2.7814074	21	1 27.1	20.0
315887 2008 KV_{26}	16.0	X	151.27435	112.99373	141.02967	7.85578	0.1616300	0.18360364	3.0658332	21	12 7.1	21.1
315888 2008 KG_{29}	15.8	X	109.03128	187.59911	127.35172	8.69552	0.1178650	0.18678583	3.0309127	21	—	—
315889 2008 KH_{31}	15.9	X	84.69233	110.49453	169.10388	9.11291	0.0728320	0.17489548	3.1667734	21	10 27.6	20.5
315890 2008 KJ_{37}	15.8	X	119.02857	111.51481	144.21995	11.77748	0.1086194	0.17618336	3.1513220	21	11 10.0	20.8
315891 2008 KA_{38}	15.7	X	299.50235	303.23441	148.26427	10.45199	0.0124053	0.18259951	3.0770625	21	11 20.2	20.2
315892 2008 KU_{42}	15.9	X	97.55039	143.83937	159.74353	10.08819	0.0621761	0.18199287	3.0838966	21	12 8.4	20.6
315893 2008 LJ_3	15.5	X	154.66851	81.14904	142.27671	14.77651	0.0176306	0.17786867	3.1313846	21	11 7.1	20.3
315894 2008 LB_4	15.5	X	116.24596	134.29611	123.26486	9.84609	0.0327815	0.17863311	3.1224446	21	11 3.8	20.2
315895 2008 LJ_7	15.6	X	239.31372	337.94370	153.08647	11.97213	0.0312284	0.17691886	3.1425820	21	10 22.8	20.2
315896 2008 LZ_9	15.7	X	215.32473	126.25666	99.30286	12.68680	0.0317080	0.19222039	2.9735123	21	—	—
315897 2008 QZ_2	17.5	X	25.95140	318.21252	2.13844	18.07003	0.0689723	0.38170674	1.8821295	21	10 25.0	19.3
315898 2008 QD_4	11.3	X	161.91471	68.21562	344.78889	42.08374	0.3513534	0.04067716	8.3734094	21	4 7.2	22.0
315899 2008 QG_{20}	15.7	X	149.84272	284.63774	334.15990	16.22823	0.3300079	0.17682933	3.1436427	21	12 8.5	21.8
315900 2008 QX_{20}	15.4	X	85.25080	171.56101	213.55154	9.01508	0.0284884	0.18209801	3.0827094	21	—	—
315901 2008 QY_{36}	14.1	X	308.54643	125.93444	325.75987	3.49054	0.0852889	0.08545505	5.1047864	21	11 5.2	20.6
315902 2008 QS_{40}	13.8	X	301.24167	131.66659	324.25155	4.22797	0.0826714	0.08128371	5.2779714	21	10 31.2	20.6
315903 2008 QJ_{42}	13.4	X	333.63607	223.98392	195.18357	18.54328	0.0978186	0.08104983	5.2881201	21	11 2.8	19.9
315904 2008 RD_1	15.7	X	141.32805	145.60824	134.81839	11.02453	0.1999991	0.17671593	3.1449875	21	12 27.3	21.1
315905 2008 RC_2	13.8	X	11.12393	208.09038	176.45796	9.51180	0.0696954	0.08329563	5.1926361	21	11 14.1	20.4
315906 2008 RD_4	13.5	X	344.54580	227.01691	194.18885	6.17174	0.1580696	0.08300594	5.2047109	21	11 18.7	19.6
315907 2008 RF_{20}	13.6	X	352.79033	210.47839	201.24741	6.56694	0.0974971	0.08389190	5.1680023	21	11 20.2	20.0
315908 2008 RX_{33}	14.8	X	320.83595	275.36741	340.79443	7.53539	0.0481016	0.12461390	3.9697064	21	4 9.5	20.3
315909 2008 RO_{63}	13.7	X	26.83182	217.20409	151.21438	4.32404	0.1074807	0.08418853	5.1558559	21	11 18.7	20.2
315910 2008 RH_{64}	13.8	X	330.21118	58.31463	18.99912	9.57764	0.0457678	0.08542959	5.1058003	21	11 18.0	20.5
315911 2008 RH_{67}	12.8	X	325.48859	50.02112	29.54088	9.94127	0.1162158	0.08313506	5.1993201	21	11 10.8	19.3
315912 2008 RT_{85}	15.4	X	180.64255	44.11239	214.22851	10.64003	0.0548122	0.17056306	3.2201744	21	—	—
315913 2008 RP_{109}	14.3	X	338.68615	11.36340	61.09436	2.29051	0.0364177	0.08537990	5.1077813	21	11 25.0	20.9
315914 2008 RE_{113}	13.9	X	73.74057	76.70798	244.64210	5.22162	0.0226175	0.08216808	5.2400322	21	11 10.3	20.9
315915 2008 RB_{123}	13.8	X	282.75087	198.39826	286.99680	5.95458	0.0462468	0.08439669	5.1473745	21	11 15.9	20.6
315916 2008 RO_{124}	14.0	X	350.35281	221.90876	175.10561	6.59527	0.1213836	0.08197488	5.2482623	21	10 31.9	20.4
315917 2008 RO_{125}	14.3	X	329.59527	177.04831	249.16481	2.82883	0.0898892	0.08399788	5.1636544	21	11 4.2	20.7
315918 2008 RT_{126}	13.9	X	23.91410	44.84373	334.89780	6.40405	0.0109766	0.08267651	5.2185272	21	11 16.3	20.8
315919 2008 RG_{127}	13.8	X	0.82268	61.41485	328.71869	2.95439	0.1459109	0.08247417	5.2270591	21	11 6.8	20.0
315920 2008 RG_{145}	15.8	X	223.58319	241.56572	6.94162	12.49568	0.0632094	0.17895428	3.1187075	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
315921 2008 SL_{23}	13.7	X	311.79416	89.13044	346.95538	12.40311	0.1171099	0.08223441	5.2372142	21	10 16.4	20.3
315922 2008 SW_{28}	13.9	X	346.33587	175.21802	229.21346	4.79571	0.0896729	0.07962605	5.3509711	21	11 1.7	20.6
315923 2008 SM_{39}	13.1	X	336.60986	44.47711	32.03102	9.81506	0.0688847	0.08245112	5.2280333	21	11 24.1	19.7
315924 2008 SX_{85}	14.9	X	25.59950	274.16629	292.94792	8.06114	0.1257612	0.12548279	3.9513602	21	5 10.0	19.9
315925 2008 SE_{96}	13.7	X	136.64412	37.20445	228.49618	6.44689	0.0137306	0.08133965	5.2755515	21	11 16.7	20.7
315926 2008 SW_{149}	13.4	X	351.65304	52.53854	342.90372	10.54664	0.0955664	0.07924891	5.3679344	21	10 26.1	20.1
315927 2008 SS_{150}	17.2	X	276.16028	26.06535	9.91647	21.35947	0.0868098	0.37291368	1.9116007	21	8 21.8	19.4
315928 2008 SP_{198}	13.5	X	329.99458	134.43861	285.32608	9.49364	0.0519898	0.08049923	5.3122061	21	10 27.3	20.4
315929 2008 SQ_{219}	15.2	X	199.42717	54.09658	192.43126	25.76665	0.1739338	0.17467660	3.1694183	21	—	—
315930 2008 SG_{221}	14.4	X	356.36666	34.59888	184.82672	8.91421	0.1338904	0.12611960	3.9380478	21	4 11.4	19.2
315931 2008 SY_{233}	13.5	X	346.42100	349.77531	48.06089	7.01499	0.0570961	0.07927174	5.3669037	21	10 27.0	20.2
315932 2008 SX_{274}	13.6	X	333.29952	0.58398	73.20467	5.01500	0.0615930	0.08129581	5.2774476	21	11 19.0	20.3
315933 2008 SR_{275}	13.5	X	1.28052	174.96704	241.39710	7.68289	0.0492789	0.08459884	5.1391717	21	12 4.3	20.0
315934 2008 SV_{279}	13.6	X	357.91134	30.72592	16.32802	5.21119	0.1216104	0.08414380	5.1576830	21	11 20.9	19.9
315935 2008 TK_{15}	14.4	X	30.05993	142.16516	232.21409	2.17800	0.0718253	0.08415697	5.1571448	21	11 24.8	20.9
315936 2008 TD_{29}	13.0	X	338.67017	63.21066	355.21503	9.60863	0.0688907	0.08230183	5.2343534	21	11 5.3	19.7
315937 2008 TE_{49}	14.1	X	359.89482	169.42582	232.51347	6.00531	0.0897005	0.08266868	5.2188570	21	11 17.8	20.6
315938 2008 TV_{49}	13.6	X	17.25799	9.07612	21.03910	4.33203	0.0706908	0.08272922	5.2163106	21	11 25.2	20.2
315939 2008 TN_{59}	14.2	X	1.33718	0.22110	56.30517	4.18010	0.0467687	0.08304245	5.2031853	21	12 3.9	20.8
315940 2008 TJ_{85}	13.6	X	10.01212	23.75817	7.14568	6.04060	0.0338206	0.08256443	5.2232490	21	11 14.4	20.4
315941 2008 TE_{91}	14.0	X	11.76156	47.95225	338.63418	2.34406	0.1713032	0.08209242	5.2432512	21	11 21.2	20.2
315942 2008 TG_{101}	13.7	X	323.74001	67.31434	24.60091	12.34876	0.0608306	0.08231364	5.2338529	21	11 24.4	20.4
315943 2008 TY_{116}	13.7	X	0.69378	353.26856	38.32977	11.27406	0.0342878	0.08016746	5.3268519	21	11 5.0	20.5
315944 2008 TN_{118}	13.6	X	284.24490	126.59494	344.44751	7.75897	0.0171998	0.08195461	5.2491276	21	11 3.5	20.5
315945 2008 TR_{118}	13.9	X	21.34533	26.07121	350.19083	7.84488	0.0295182	0.08345772	5.1859109	21	11 10.5	20.8
315946 2008 TL_{121}	17.5	X	232.01477	12.59984	40.15925	21.68132	0.0931669	0.36477208	1.9399401	21	6 22.6	20.2
315947 2008 TL_{122}	17.6	X	203.40459	42.34143	41.06928	20.67536	0.1080029	0.36278537	1.9470161	21	7 4.4	20.5
315948 2008 TL_{125}	13.8	X	355.39203	128.85493	276.24948	3.90772	0.0640423	0.08082125	5.2980862	21	11 13.8	20.4
315949 2008 TJ_{126}	13.2	X	303.77800	212.61765	257.33940	6.09273	0.0342821	0.08346868	5.1854570	21	11 24.9	19.9
315950 2008 TT_{127}	13.6	X	10.14946	131.29616	261.11200	6.05527	0.0730857	0.08149438	5.2688715	21	11 19.0	20.3
315951 2008 TL_{144}	14.2	X	324.24166	300.39111	126.30655	1.39818	0.0876740	0.07930720	5.3653036	21	10 29.2	20.9
315952 2008 TO_{148}	13.6	X	7.63373	347.94629	50.15114	5.09246	0.0568885	0.08303821	5.2033623	21	11 21.8	20.3
315953 2008 TK_{150}	14.0	X	77.01282	233.27549	90.13389	2.62897	0.0345259	0.08377351	5.1728700	21	11 18.6	20.9
315954 2008 TJ_{176}	13.7	X	293.41859	119.76622	355.92137	6.85854	0.0310794	0.08196394	5.2487290	21	11 18.0	20.6
315955 2008 UJ_{4}	17.4	X	289.05828	293.52838	64.67338	24.31738	0.0576777	0.36457782	1.9406292	21	6 28.5	19.5
315956 2008 UJ_{9}	13.5	X	331.08791	53.11068	8.31419	10.27655	0.0283700	0.08180290	5.2556155	21	11 1.4	20.4
315957 2008 UO_{9}	13.3	X	340.83231	28.23088	26.54740	5.21414	0.0720063	0.08193852	5.2498145	21	11 6.3	19.9
315958 2008 UR_{59}	13.5	X	24.13901	45.82318	330.69939	12.47783	0.1446977	0.08160775	5.2639908	21	11 23.2	20.0
315959 2008 US_{83}	17.6	X	18.10264	79.49855	229.43026	19.25516	0.0727183	0.37031830	1.9205219	21	9 20.8	19.7
315960 2008 UB_{190}	13.8	X	48.93768	280.62845	64.64794	3.30272	0.1235582	0.08347160	5.1853359	21	11 21.6	20.5
315961 2008 UO_{202}	17.8	X	241.22714	200.07008	215.12003	20.78467	0.0912493	0.36834499	1.9273749	21	7 7.3	20.5
315962 2008 UY_{202}	18.0	X	357.68658	135.11016	225.23867	17.99100	0.0838062	0.38209353	1.8808591	21	11 22.3	19.2
315963 2008 VV_{2}	17.7	X	216.67071	185.61572	241.27863	19.24286	0.0893026	0.36102816	1.9533287	21	6 24.6	20.3
315964 2008 WH_{17}	13.8	X	113.58033	195.28793	113.62795	2.63342	0.0401470	0.08375927	5.1734564	21	12 11.7	20.8
315965 2008 WA_{90}	17.0	X	32.80286	320.90291	281.98924	17.45973	0.0357274	0.35058878	1.9919146	21	6 27.2	18.5
315966 2008 WA_{97}	17.1	X	111.77316	6.00579	262.43393	20.28081	0.0315719	0.38094282	1.8846449	21	12 14.6	18.7
315967 2008 XJ_{15}	17.3	X	304.24784	106.14525	258.04196	18.20466	0.1047710	0.36633170	1.9344301	21	7 24.0	19.2
315968 2008 YG_{24}	15.9	X	202.03351	354.00509	127.80570	8.39984	0.0359144	0.20329336	2.8645336	21	8 26.9	19.9
315969 2009 AB_{33}	17.1	X	44.61293	176.88835	120.10636	4.83962	0.1307122	0.28287928	2.2982748	21	10 22.9	19.8
315970 2009 AP_{33}	16.9	X	113.88416	180.84443	120.01260	6.59826	0.1729331	0.29825613	2.2185870	21	—	—
315971 2009 BY_{110}	17.5	X	266.06974	135.54941	9.58645	7.61811	0.0661868	0.29225249	2.2488677	21	12 30.2	20.1
315972 2009 BA_{113}	17.8	X	226.25903	144.10864	30.64504	3.72227	0.1029348	0.28924325	2.2644386	21	12 5.6	20.5
315973 2009 BJ_{145}	18.0	X	227.76383	124.53420	64.31729	1.11031	0.1108394	0.29742127	2.2227368	21	12 28.2	20.5
315974 2009 BR_{156}	17.3	X	119.31607	302.30677	331.88766	7.30344	0.0949525	0.28948899	2.2631570	21	12 14.8	20.6
315975 2009 BX_{156}	17.1	X	52.70859	338.39825	332.03969	7.20309	0.1367840	0.28296374	2.2978175	21	11 17.5	20.1
315976 2009 CN_{11}	17.6	X	210.54227	305.48297	289.57144	5.77051	0.0398783	0.30344608	2.1932175	21	—	—
315977 2009 CW_{11}	15.4	X	124.81894	144.33952	306.31960	8.15698	0.0690878	0.17533129	3.1615237	21	4 15.3	20.2
315978 2009 CQ_{14}	17.7	X	219.94269	287.68666	333.80093	5.21538	0.1284768	0.30771945	2.1728650	21	—	—
315979 2009 CC_{23}	17.6	X	154.62109	0.68709	288.77427	5.39825	0.1939783	0.30324478	2.1941880	21	—	—
315980 2009 CY_{35}	17.0	X	97.52963	180.93793	94.20061	7.02944	0.1851275	0.28804454	2.2707167	21	11 29.7	20.5
315981 2009 CY_{43}	17.3	X	205.64136	239.36651	334.92739	6.99932	0.1401158	0.29325389	2.2437451	21	12 29.4	20.3
315982 2009 CZ_{58}	17.7	X	162.48225	64.27267	170.47710	6.71398	0.1068484	0.28542948	2.2845649	21	12 10.0	21.1
315983 2009 CB_{60}	17.3	X	287.53989	67.45442	55.25361	2.68038	0.1462655	0.29011056	2.2599233	21	12 24.6	19.0
315984 2009 CO_{64}	17.6	X	92.09328	117.44302	172.80757	7.28527	0.1624376	0.28512302	2.2862016	21	12 11.3	21.2
315985 2009 CE_{65}	17.5	X	204.76057	11.47578	232.75136	2.77665	0.1768763	0.29483164	2.2357333	21	—	—
315986 2009 DU_{5}	17.4	X	173.63932	254.08230	244.53221	2.21945	0.1385376	0.27277888	2.3546637	21	8 14.3	20.8
315987 2009 DA_{16}	18.0	X	276.01680	250.46451	290.45499	0.98589	0.0815256	0.30559255	2.1829354	21	—	—
315988 2009 DR_{31}	17.2	X	35.16500	87.27274	341.80448	7.61223	0.0628645	0.30551176	2.1833202	21	—	—
315989 2009 DU_{42}	17.5	X	351.26460	100.86004	338.78088	4.67657	0.0649359	0.30147189	2.2027819	21	—	—
315990 2009 DZ_{50}	17.8	X	259.85561	70.74626	0.19550	4.71448	0.2314910	0.27872169	2.3210734	21	8 8.7	20.9
315991 2009 DA_{64}	17.3	X	182.97356	84.71922	134.00925	9.23724	0.0641189	0.28935786	2.2638407	21	12 16.7	20.3
315992 2009 DN_{64}	17.4	X	341.61625	212.40083	122.06058	6.94552	0.0883407	0.26985028	2.3716693	21	8 22.1	19.8
315993 2009 DQ_{77}	17.6	X	207.36767	5.55516	255.94192	1.68611	0.1290479	0.30522398	2.1846923	21	—	—
315994 2009 DT_{86}	17.5	X	275.40349	237.06394	335.68939	4.48554	0.0587631	0.30943898	2.1648079	21	—	—
315995 2009 DG_{97}	17.3	X	33.96770	279.62949	72.24567	2.51810	0.0775942	0.28874685	2.2670332	21	12 13.4	19.7
315996 2009 DW_{116}	18.1	X	335.93715	350.35328	147.69955	2.47811	0.0569134	0.30859001	2.1687765	21	—	—
315997 2009 DQ_{117}	17.2	X	49.45721	89.53006	205.19959	1.74087	0.2185182	0.27482477	2.3429632	21	11 5.7	20.0
315998 2009 DG_{125}	17.3	X	260.80784	251.40822	174.87543	7.34592	0.2348143	0.27853936	2.3220862	21	7 30.6	20.5
315999 2009 DP_{127}	18.3	X	172.48473	114.09439	114.87073	1.90216	0.1782968	0.28640430	2.2793780	21	12 8.1	21.8
316000 2009 DF_{128}	17.8	X	83.93632	13.40545	278.66071	2.53808	0.0874691	0.28513069	2.2861606	21	11 27.2	20.8