Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220001 2002 PP_{31}	17.4	X	66.30071	35.52076	292.17756	1.57883	0.1997387	0.28770953	2.2724790	20	—	—
220002 2002 PX_{43}	16.5	X	39.58993	33.57148	343.92941	6.84575	0.1589243	0.28618746	2.2805293	20	—	—
220003 2002 PG_{45}	16.4	X	72.12590	322.84890	37.12383	3.81055	0.2851194	0.28843570	2.2686633	20	—	—
220004 2002 PO_{56}	16.8	X	27.81444	176.23938	174.69652	3.22899	0.2015589	0.28342298	2.2953346	20	—	—
220005 2002 PG_{60}	16.8	X	16.35129	195.91974	145.87876	11.57511	0.2666568	0.27972235	2.3155346	20	12 17.7	19.8
220006 2002 PS_{87}	16.0	X	149.67800	245.80451	326.97931	23.62427	0.2795032	0.28813192	2.2702576	20	10 22.1	20.6
220007 2002 PS_{99}	17.1	X	112.36106	292.16370	21.94020	5.07291	0.2236653	0.29280093	2.2460586	20	—	—
220008 2002 PX_{101}	17.2	X	16.02744	116.24868	203.64364	6.10797	0.2488933	0.27945703	2.3169999	20	11 13.6	19.6
220009 2002 PO_{102}	15.5	X	267.65781	194.42791	298.66949	25.38397	0.1774988	0.28904938	2.2654511	20	12 19.8	17.8
220010 2002 PJ_{111}	16.8	X	12.80949	106.01996	344.61850	6.05099	0.1060799	0.29721026	2.2237887	20	—	—
220011 2002 PJ_{123}	15.2	X	150.61338	358.26371	233.19125	7.02321	0.0212964	0.17463382	3.1699359	20	11 13.3	19.8
220012 2002 PP_{124}	17.0	X	177.97761	300.94134	315.23515	7.03195	0.0962282	0.29485311	2.2356248	20	—	—
220013 2002 PK_{135}	17.4	X	82.69269	150.40030	165.85753	3.18465	0.1820121	0.28880962	2.2667047	20	—	—
220014 2002 PG_{137}	17.4	X	7.68548	206.32410	138.16233	6.18344	0.2171753	0.27991232	2.3144868	20	11 30.7	19.8
220015 2002 PU_{155}	17.0	X	339.50899	295.34928	104.94182	3.33774	0.1765680	0.28322013	2.2964305	20	12 25.5	19.0
220016 2002 PG_{170}	15.0	X	281.74522	240.70023	231.22987	16.06386	0.0749176	0.17808820	3.1288107	20	11 20.1	19.1
220017 2002 PH_{179}	16.5	X	47.12904	160.47352	188.23234	23.20837	0.1530047	0.28596993	2.2816856	20	—	—
220018 2002 QC_{6}	16.4	X	43.70735	186.95110	195.87920	22.67267	0.2535692	0.28851645	2.2682399	20	—	—
220019 2002 QG_{10}	16.3	X	68.86040	253.97675	91.17297	6.27963	0.1965559	0.28685158	2.2770080	20	—	—
220020 2002 QF_{12}	17.1	X	27.21196	158.63155	201.88361	3.26939	0.1226363	0.28540498	2.2846956	20	—	—
220021 2002 QB_{16}	16.3	X	51.52461	116.91300	225.15540	20.80030	0.3058382	0.28596176	2.2817291	20	—	—
220022 2002 QN_{23}	16.9	X	100.40582	185.85468	132.73438	7.15178	0.1548393	0.29334441	2.2432836	20	—	—
220023 2002 QQ_{43}	16.7	X	356.64958	353.72472	31.83766	6.35172	0.2342481	0.28294990	2.2978924	20	—	—
220024 2002 QH_{47}	16.5	X	90.12861	311.83335	41.49231	8.10506	0.2265239	0.29222190	2.2490246	20	—	—
220025 2002 QW_{53}	17.5	X	149.83635	80.01842	183.65887	5.81371	0.0725031	0.29019462	2.2594868	20	—	—
220026 2002 QG_{55}	17.1	X	16.42003	57.90617	331.75080	2.61851	0.1743207	0.28640357	2.2793819	20	—	—
220027 2002 QJ_{57}	17.3	X	90.68740	314.96148	311.28229	2.12187	0.2176487	0.28446889	2.2897050	20	11 21.3	20.9
220028 2002 QT_{89}	17.3	X	1.69890	16.34956	30.59285	4.58341	0.1727502	0.28575166	2.2828474	20	—	—
220029 2002 QC_{100}	17.4	X	354.28999	35.02775	18.03438	2.88088	0.1960045	0.28542794	2.2845731	20	—	—
220030 2002 QZ_{102}	17.0	X	30.95261	65.79288	268.63259	3.87905	0.0422203	0.28130212	2.3068572	20	11 20.9	19.7
220031 2002 QF_{107}	17.5	X	111.45118	346.68255	297.01978	2.70314	0.0930136	0.28887081	2.2663846	20	12 29.3	20.5
220032 2002 QO_{108}	18.0	X	355.75189	77.24777	303.47297	1.74935	0.1743767	0.28299803	2.2976318	20	12 25.5	20.3
220033 2002 QB_{128}	17.7	X	225.18633	103.12698	123.92635	2.30546	0.1400022	0.29822479	2.2187424	20	—	—
220034 2002 RZ_{2}	17.0	X	30.51142	203.69213	145.68001	5.73383	0.1921194	0.28277120	2.2988604	20	—	—
220035 2002 RM_{6}	17.4	X	31.25204	226.47655	145.92377	0.95617	0.2242689	0.28583128	2.2824234	20	—	—
220036 2002 RN_{9}	16.9	X	64.03167	31.92409	335.68815	3.09158	0.0780990	0.29161503	2.2521438	20	—	—
220037 2002 RT_{35}	16.6	X	86.71492	4.58108	296.22749	5.90850	0.1232527	0.28626818	2.2801005	20	12 26.0	20.0
220038 2002 RW_{40}	17.5	X	20.77667	6.05962	13.34678	1.82972	0.2823459	0.28434445	2.2903730	20	—	—
220039 2002 RY_{42}	17.1	X	14.74560	291.15525	72.47722	2.66131	0.1752349	0.28237478	2.3010114	20	12 30.3	19.6
220040 2002 RO_{55}	17.0	X	21.95113	146.87197	220.68205	5.05418	0.2137463	0.28279185	2.2987485	20	—	—
220041 2002 RD_{59}	17.0	X	25.83575	126.23353	203.22805	4.87575	0.2427834	0.28018328	2.3129943	20	12 9.1	19.8
220042 2002 RF_{67}	16.4	X	40.52616	80.72320	276.15810	5.50344	0.1803214	0.28430519	2.2905838	20	—	—
220043 2002 RB_{69}	16.8	X	279.85806	124.75351	343.32524	5.54182	0.1080740	0.28279979	2.2987055	20	12 6.6	19.2
220044 2002 RO_{70}	16.5	X	17.09422	121.81073	275.43413	6.54692	0.1399514	0.28725490	2.2748761	20	—	—
220045 2002 RP_{73}	16.6	X	150.28719	258.37971	330.11894	6.40186	0.0598650	0.28426361	2.2908072	20	11 29.2	19.7
220046 2002 RP_{79}	17.0	X	359.77260	45.18068	348.71388	7.55050	0.1064802	0.28348818	2.2949827	20	—	—
220047 2002 RB_{84}	16.9	X	350.22676	51.08266	326.88905	2.57529	0.1808668	0.27884938	2.3203647	20	12 11.0	19.0
220048 2002 RC_{84}	16.6	X	19.68711	161.85369	187.81317	6.72174	0.1377308	0.28030732	2.3123120	20	12 11.9	19.4
220049 2002 RS_{86}	17.0	X	341.82457	45.57294	343.12802	4.51535	0.2438213	0.27798101	2.3251946	20	12 21.3	18.8
220050 2002 RU_{93}	16.9	X	329.87027	150.57857	259.57358	3.87637	0.1115343	0.28031715	2.3122579	20	12 12.9	19.0
220051 2002 RH_{94}	16.7	X	14.61993	290.66877	11.21344	4.98830	0.2341622	0.27429470	2.3459807	20	10 10.4	18.7
220052 2002 RY_{101}	16.6	X	323.65057	40.40671	3.60635	6.23221	0.2398972	0.27484652	2.3428396	20	11 26.6	18.1
220053 2002 RU_{104}	16.0	X	357.06577	323.03132	7.57872	6.57756	0.1514004	0.27152950	2.3618811	20	10 6.0	18.2
220054 2002 RL_{109}	17.8	X	16.79010	136.24926	215.51654	1.99577	0.2377085	0.28117800	2.3075360	20	12 26.3	20.6
220055 2002 RF_{110}	16.8	X	99.32392	145.77135	205.24660	6.12709	0.1498007	0.29287569	2.2456764	20	—	—
220056 2002 RR_{113}	17.4	X	56.91208	319.15766	337.72282	4.92865	0.1441427	0.28145390	2.3060278	20	11 17.9	20.5
220057 2002 RQ_{114}	16.9	X	30.95658	307.02022	53.99511	4.18733	0.1449597	0.28261446	2.2997103	20	—	—
220058 2002 RM_{121}	16.2	X	67.24881	32.77668	303.39877	5.47557	0.2200725	0.28590024	2.2820564	20	—	—
220059 2002 RO_{122}	16.9	X	22.41245	290.65430	44.82104	7.53806	0.1358838	0.27948789	2.3168294	20	11 24.4	19.6
220060 2002 RT_{136}	16.6	X	350.44163	286.08579	118.37229	8.06251	0.1484741	0.28295593	2.2978597	20	—	—
220061 2002 RA_{141}	16.6	X	348.28172	282.99221	77.62465	6.27907	0.1670302	0.27695524	2.3309323	20	11 10.0	18.5
220062 2002 RY_{143}	17.6	X	40.74576	57.74794	251.25497	2.92396	0.2701500	0.28060346	2.3106848	20	12 3.1	20.8
220063 2002 RF_{144}	17.0	X	333.45762	126.77185	275.94501	3.17384	0.1968329	0.27922139	2.3183033	20	12 18.1	18.5
220064 2002 RX_{145}	16.9	X	308.15760	304.84378	111.46720	2.40375	0.1934073	0.27708851	2.3301848	20	11 8.6	18.3
220065 2002 RX_{151}	17.5	X	55.65396	124.56959	219.19556	7.62467	0.2068400	0.28613440	2.2808112	20	—	—
220066 2002 RD_{153}	16.8	X	48.01573	9.54166	291.96943	6.33131	0.1135310	0.27858246	2.3218467	20	11 7.7	19.8
220067 2002 RP_{153}	16.1	X	10.01740	91.00964	282.36632	5.58143	0.1368214	0.28132685	2.3067220	20	12 30.5	18.6
220068 2002 RX_{154}	16.9	X	271.74174	88.85238	331.73661	6.24846	0.2335579	0.26896774	2.3768544	20	8 20.6	19.3
220069 2002 RJ_{156}	17.0	X	156.38672	310.35037	315.04667	3.47224	0.1104144	0.29083578	2.2561648	20	—	—
220070 2002 RT_{160}	17.2	X	326.09313	256.25205	155.50496	4.34064	0.1121473	0.28112050	2.3078507	20	12 9.4	19.3
220071 2002 RX_{161}	17.3	X	340.89895	30.57175	16.51214	2.77440	0.1486724	0.28226543	2.3016057	20	—	—
220072 2002 RY_{166}	17.6	X	21.39422	159.41254	171.08262	2.24352	0.1334319	0.27904653	2.3192717	20	11 16.9	20.3
220073 2002 RH_{174}	17.3	X	24.62328	51.25220	293.46535	3.66071	0.1683091	0.28161451	2.3051509	20	12 16.7	20.1
220074 2002 RB_{194}	16.9	X	73.59401	302.57555	350.98499	6.21226	0.1342027	0.28277047	2.2988643	20	12 1.7	20.2
220075 2002 RT_{201}	16.0	X	113.91071	357.27188	25.49532	3.88057	0.1565813	0.18914682	3.0056381	20	2 2.7	20.3
220076 2002 RF_{209}	17.1	X	137.19959	260.40300	3.34070	8.02180	0.1215040	0.28686993	2.2769109	20	12 30.5	20.5
220077 2002 RK_{209}	17.2	X	83.02401	273.19053	0.83415	6.54963	0.1134940	0.27972241	2.3155342	20	11 13.4	20.5
220078 2002 RK_{212}	16.5	X	40.85049	225.35235	86.26906	8.26700	0.1684966	0.27881358	2.3205634	20	11 23.8	19.5
220079 2002 RB_{216}	17.1	X	97.44512	157.35271	113.75669	5.74806	0.2109664	0.28456929	2.2891664	20	12 4.0	20.8
220080 2002 RX_{222}	17.2	X	63.35156	219.76543	95.49683	3.54169	0.1864466	0.28412479	2.2915533	20	12 25.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220081 2002 RC_{230}	17.0	X	338.78542	285.76395	101.59252	7.37403	0.2085668	0.27689220	2.3312861	20	12 7.0	18.7
220082 2002 RY_{243}	17.4	X	179.82081	262.87875	319.13458	5.01154	0.0642266	0.28896475	2.2658934	20	12 28.7	20.2
220083 2002 RN_{273}	17.3	X	218.25409	210.23827	345.29597	4.98260	0.1083462	0.29075413	2.2565872	20	—	—
220084 2002 SQ_{1}	17.4	X	351.56798	195.90511	190.74253	4.88761	0.2515598	0.27954852	2.3164944	20	—	—
220085 2002 SH_{6}	16.4	X	321.77980	29.84485	28.48105	7.85953	0.0844473	0.27957231	2.3163630	20	12 7.0	18.8
220086 2002 ST_{6}	17.0	X	347.04845	264.27671	163.75077	5.55587	0.1428987	0.28394470	2.2925221	20	—	—
220087 2002 SG_{10}	17.4	X	307.27747	219.00428	197.59730	1.88350	0.1860916	0.27554445	2.3388818	20	11 5.9	19.1
220088 2002 SB_{16}	15.2	X	59.24187	138.34769	285.33049	16.23700	0.1359228	0.18260619	3.0769874	20	1 7.4	18.9
220089 2002 SF_{20}	17.3	X	332.86591	24.55896	11.30056	3.55010	0.1260889	0.27837037	2.3230259	20	11 26.9	19.5
220090 2002 SH_{31}	16.7	X	65.20763	124.81500	157.70444	5.62093	0.0741570	0.27705053	2.3303978	20	11 2.4	19.7
220091 2002 ST_{33}	17.0	X	35.47621	87.30971	217.91297	5.93863	0.2953613	0.27825717	2.3236558	20	11 25.8	20.2
220092 2002 SM_{37}	17.4	X	38.62872	142.64469	176.43477	4.78247	0.2568765	0.27952949	2.3165995	20	12 12.2	20.6
220093 2002 SJ_{38}	16.6	X	295.17551	63.67053	11.62352	7.21143	0.0639253	0.27891670	2.3199914	20	11 15.8	19.2
220094 2002 SC_{41}	16.5	X	31.82872	301.09026	52.32274	7.38646	0.1522773	0.28101194	2.3084450	20	—	—
220095 2002 SU_{41}	17.9	X	81.93961	117.17128	357.76320	5.41662	0.0994481	0.41757684	1.7727403	20	3 14.5	18.4
220096 2002 SR_{42}	17.4	X	320.07456	87.44927	341.50824	1.97993	0.1838553	0.27938467	2.3174000	20	12 28.6	18.9
220097 2002 SM_{45}	17.5	X	330.80154	2.99649	14.11204	2.37102	0.2350008	0.27444434	2.3451279	20	10 31.1	18.7
220098 2002 SG_{48}	17.0	X	336.20119	349.53734	48.07684	3.95425	0.1636149	0.27863598	2.3215493	20	12 10.9	18.9
220099 2002 SG_{49}	16.3	X	66.90294	169.21833	156.14562	7.15603	0.1346573	0.28346173	2.2951254	20	—	—
220100 2002 SC_{55}	17.1	X	9.22106	331.82024	43.06810	4.67860	0.2415909	0.28261632	2.2997002	20	—	—
220101 2002 SK_{57}	17.1	X	4.33690	296.13778	76.38051	4.16634	0.2602392	0.28026513	2.3125440	20	—	—
220102 2002 SX_{63}	16.9	X	13.23857	302.08163	100.07624	5.27016	0.1077586	0.28830270	2.2693609	20	—	—
220103 2002 TK_{14}	16.3	X	9.35461	350.73531	21.56618	7.12402	0.1245903	0.28301543	2.2975377	20	12 26.7	19.1
220104 2002 TY_{17}	17.3	X	319.93981	67.18603	19.44509	4.80032	0.1895676	0.28199991	2.3030502	20	—	—
220105 2002 TL_{20}	16.6	X	47.52430	66.92999	203.42895	5.55828	0.2230810	0.27450485	2.3447833	20	10 13.4	19.5
220106 2002 TE_{25}	16.7	X	9.39486	136.11801	180.19948	5.36318	0.1495904	0.27315560	2.3524982	20	10 8.9	18.8
220107 2002 TN_{25}	16.9	X	55.06067	93.33863	221.30052	2.75198	0.2468338	0.28139885	2.3063285	20	12 21.7	20.3
220108 2002 TZ_{25}	16.5	X	102.82056	82.14483	195.22658	5.98757	0.0895188	0.28070244	2.3101415	20	12 10.3	19.8
220109 2002 TJ_{29}	17.2	X	343.17941	307.24781	48.76399	2.82234	0.2303817	0.27417031	2.3466903	20	10 28.6	18.5
220110 2002 TF_{32}	16.6	X	316.20464	210.84527	204.94282	4.82377	0.2300193	0.27544961	2.3394186	20	11 28.4	17.8
220111 2002 TH_{32}	16.5	X	307.06640	54.16444	343.23521	1.79585	0.1164484	0.27242977	2.3566749	20	10 7.9	18.8
220112 2002 TZ_{32}	17.0	X	25.61722	261.30321	50.02011	5.18833	0.1520651	0.27605917	2.3359736	20	10 29.7	19.4
220113 2002 TF_{38}	17.4	X	337.89549	194.88983	182.90792	2.85877	0.2410086	0.27475201	2.3433768	20	11 23.1	18.9
220114 2002 TF_{39}	16.2	X	330.97057	352.90715	24.60313	7.84143	0.1257361	0.27244540	2.3565848	20	10 24.4	18.3
220115 2002 TC_{40}	16.6	X	294.41412	28.87912	18.81599	4.19933	0.2126107	0.26902560	2.3765137	20	9 17.0	18.6
220116 2002 TU_{44}	16.6	X	336.94659	290.73107	45.10248	7.26829	0.1561045	0.26956599	2.3733365	20	9 5.7	18.6
220117 2002 TQ_{46}	16.7	X	291.70765	67.13557	34.51456	12.32403	0.1679156	0.27719015	2.3296152	20	12 12.0	18.8
220118 2002 TO_{47}	16.8	X	303.81478	26.01923	34.07049	6.16683	0.2049215	0.27347862	2.3506455	20	10 31.3	18.2
220119 2002 TV_{47}	16.3	X	311.27401	302.38174	46.86032	7.69412	0.1339341	0.26632366	2.3925603	20	8 2.1	18.7
220120 2002 TU_{52}	16.9	X	342.13954	194.93667	203.00174	4.90635	0.2497321	0.27616481	2.3353779	20	—	—
220121 2002 TL_{57}	16.1	X	269.78441	260.21264	209.97200	10.07866	0.1029471	0.27546733	2.3393183	20	11 22.5	18.6
220122 2002 TJ_{58}	16.9	X	10.67158	74.47801	254.28834	3.61132	0.1638444	0.27557382	2.3387156	20	10 30.9	19.2
220123 2002 TR_{60}	15.5	X	305.44405	334.79287	87.20090	25.67244	0.2656039	0.27312252	2.3526882	20	11 16.6	17.4
220124 2002 TE_{66}	18.5	X	316.78099	290.56455	191.01227	51.34074	0.3780362	0.56050304	1.4568586	20	—	—
220125 2002 TT_{66}	16.2	X	28.96726	13.86382	25.95492	25.54905	0.2038419	0.28649300	2.2789076	20	—	—
220126 2002 TT_{71}	16.8	X	307.30599	155.98964	270.97072	6.50566	0.1696987	0.27653257	2.3333068	20	11 22.7	18.6
220127 2002 TD_{77}	17.0	X	55.97635	167.79597	233.86370	2.90228	0.1574069	0.29043337	2.2582484	20	—	—
220128 2002 TG_{77}	16.1	X	168.84483	147.35281	358.94196	7.08989	0.1510216	0.26664851	2.3906167	20	8 30.7	19.7
220129 2002 TX_{77}	17.0	X	9.14983	96.58542	261.80573	1.27683	0.2554313	0.27892898	2.3199233	20	12 27.2	19.3
220130 2002 TB_{78}	17.3	X	316.12162	180.46429	219.19291	3.20868	0.1288530	0.27510036	2.3413982	20	10 30.3	19.1
220131 2002 TF_{81}	16.3	X	41.57795	173.19233	143.89293	6.64280	0.1998247	0.27832435	2.3232820	20	12 5.9	19.5
220132 2002 TO_{87}	16.7	X	17.80395	142.81618	183.29280	6.40994	0.1031049	0.27545921	2.3393643	20	10 31.3	19.2
220133 2002 TO_{90}	16.5	X	343.48522	116.71438	229.06880	5.29925	0.1380733	0.27227604	2.3575618	20	9 29.2	18.5
220134 2002 TL_{98}	17.5	X	7.55195	247.89113	164.01659	2.91391	0.0568815	0.28632412	2.2798036	20	—	—
220135 2002 TX_{102}	16.4	X	59.45929	25.22190	300.44437	3.20406	0.1585583	0.28283636	2.2985073	20	12 31.6	19.6
220136 2002 TS_{104}	16.5	X	61.87849	269.18580	343.57140	7.55074	0.1701301	0.27285510	2.3542252	20	9 27.6	19.7
220137 2002 TH_{112}	16.8	X	70.43283	267.67917	53.25497	4.52362	0.1350932	0.28528372	2.2853430	20	—	—
220138 2002 TV_{114}	16.1	X	67.10269	2.81299	291.73481	6.66029	0.1138390	0.27933329	2.3176841	20	11 22.9	19.3
220139 2002 TW_{119}	16.8	X	337.70884	58.05502	312.48461	6.19469	0.1187965	0.27467848	2.3437950	20	10 24.1	19.2
220140 2002 TG_{128}	16.5	X	323.92287	169.32297	257.85814	5.42377	0.0873308	0.28141718	2.3062284	20	12 25.6	18.9
220141 2002 TA_{130}	16.4	X	42.14521	49.16340	320.35097	6.51660	0.1254312	0.28541002	2.2846687	20	—	—
220142 2002 TC_{133}	17.2	X	310.32383	127.38787	304.96560	3.45311	0.2228270	0.27765659	2.3270054	20	12 10.7	18.5
220143 2002 TO_{134}	16.6	X	26.53874	70.18221	261.02441	5.51523	0.1315961	0.27832076	2.3233019	20	11 23.9	19.3
220144 2002 TP_{134}	16.5	X	356.05937	66.09719	311.21231	6.04299	0.1188838	0.27913086	2.3188045	20	12 10.5	18.9
220145 2002 TU_{147}	17.4	X	11.63424	44.35680	281.01039	2.25774	0.1437747	0.27516045	2.3410573	20	10 24.1	19.8
220146 2002 TW_{156}	17.3	X	38.93554	85.11673	239.68882	5.85889	0.1365040	0.28094384	2.3088180	20	12 3.7	20.2
220147 2002 TQ_{162}	16.1	X	43.21522	207.19981	135.71574	11.21357	0.2418945	0.28188025	2.3037019	20	—	—
220148 2002 TK_{170}	16.0	X	72.69351	78.47208	244.69177	9.98445	0.2184816	0.28547085	2.2843442	20	—	—
220149 2002 TQ_{170}	14.4	X	274.81609	129.82229	260.62546	13.44364	0.0573296	0.15619671	3.4147177	20	7 27.4	19.4
220150 2002 TQ_{197}	17.2	X	0.19280	34.21890	290.75842	1.49628	0.2016904	0.27367362	2.3495287	20	10 11.1	19.0
220151 2002 TY_{197}	16.0	X	19.16575	120.31467	214.27064	6.00850	0.1623353	0.27674071	2.3321367	20	11 23.5	18.6
220152 2002 TR_{200}	16.8	X	44.35783	87.37513	236.95993	4.77979	0.2136548	0.28110959	2.3079104	20	12 19.6	19.9
220153 2002 TF_{206}	16.4	X	357.72896	346.73728	9.38689	7.30383	0.1234163	0.27543226	2.3395168	20	11 10.2	18.8
220154 2002 TZ_{214}	16.8	X	314.18319	301.04824	115.49620	5.63481	0.2145056	0.27566742	2.3381861	20	11 24.7	18.3
220155 2002 TZ_{219}	16.7	X	319.14485	280.18328	114.62844	9.59334	0.1731083	0.27498339	2.3420621	20	11 3.4	18.7
220156 2002 TN_{221}	16.8	X	295.34383	127.25127	227.69598	4.90023	0.1957226	0.26662814	2.3907384	20	6 27.7	19.4
220157 2002 TK_{228}	16.8	X	53.14144	237.97122	111.62553	6.07279	0.1826267	0.28327629	2.2961270	20	—	—
220158 2002 TJ_{243}	16.9	X	357.34281	273.42791	25.89507	4.20265	0.1518197	0.26849053	2.3796700	20	8 19.2	18.9
220159 2002 TV_{247}	17.3	X	52.00577	102.85195	203.03456	11.12337	0.2933099	0.27997705	2.3141300	20	12 12.7	21.0
220160 2002 TA_{251}	16.4	X	324.44154	119.95025	224.22575	5.77920	0.1462293	0.26718054	2.3874420	20	8 13.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220161 2002 TD_{252}	16.8	X	47.50317	251.15583	60.35581	4.66610	0.0993961	0.27844996	2.3225832	20	11 20.7	19.6
220162 2002 TW_{254}	17.1	X	23.58838	192.99538	157.40775	4.73352	0.2590076	0.27964422	2.3159659	20	—	—
220163 2002 TF_{258}	17.4	X	301.88633	218.62463	187.83813	2.09817	0.2227019	0.27170292	2.3608760	20	9 30.5	18.8
220164 2002 TQ_{270}	17.8	X	333.58122	37.27856	351.42675	5.05335	0.2054888	0.27629006	2.3346720	20	11 23.9	19.6
220165 2002 TF_{271}	16.1	X	1.48799	93.47276	261.95646	3.92637	0.1158978	0.27664271	2.3326875	20	11 16.5	18.6
220166 2002 TF_{274}	16.4	X	34.38304	111.96680	234.37037	5.15456	0.1434895	0.28019690	2.3129194	20	12 26.9	19.5
220167 2002 TV_{280}	16.6	X	40.93988	71.88697	271.67048	4.47874	0.1504490	0.28053862	2.3110408	20	—	—
220168 2002 TL_{282}	16.6	X	260.88091	192.51775	246.96312	6.38952	0.1023949	0.27007514	2.3703527	20	9 19.4	19.4
220169 2002 TY_{283}	17.4	X	19.90453	7.28971	359.96612	5.45637	0.2960294	0.28066244	2.3103611	20	—	—
220170 2002 TW_{284}	16.2	X	10.59103	330.28434	19.38126	9.28754	0.1400410	0.27581235	2.3373670	20	11 24.7	18.9
220171 2002 TB_{285}	16.7	X	245.73398	130.20924	294.15482	3.63068	0.0852230	0.26517248	2.3994797	20	8 11.8	19.6
220172 2002 TA_{298}	16.6	X	1.03981	118.89930	238.80345	4.04318	0.1751666	0.27814705	2.3242691	20	11 29.6	18.7
220173 2002 TE_{302}	16.1	X	257.49788	186.39059	260.18830	5.90059	0.0735064	0.27181136	2.3602480	20	9 29.7	18.9
220174 2002 TH_{323}	17.4	X	134.87445	79.57362	191.84969	3.30763	0.0963103	0.28723232	2.2749953	20	—	—
220175 2002 TK_{335}	17.5	X	216.97646	294.55605	166.96674	6.88449	0.0959402	0.26894860	2.3769672	20	8 25.2	20.7
220176 2002 TY_{376}	16.8	X	303.83603	59.45106	29.98586	7.20601	0.0937817	0.27854868	2.3220344	20	12 22.1	19.2
220177 2002 UT_{5}	15.9	X	315.45832	252.06850	164.54654	13.59606	0.0899430	0.22120925	2.7076999	20	11 11.9	19.3
220178 2002 UJ_{7}	16.5	X	20.98244	202.65594	124.93421	7.56068	0.1554678	0.27561867	2.3384619	20	11 17.1	19.3
220179 2002 UM_{10}	16.7	X	282.56623	321.68581	106.83877	3.15063	0.1823676	0.27101482	2.3648704	20	10 2.0	18.8
220180 2002 UC_{17}	15.7	X	29.58459	181.58311	227.52405	24.68028	0.2309256	0.28571762	2.2830287	20	—	—
220181 2002 UY_{27}	16.0	X	326.41696	293.63515	70.35424	11.96692	0.1962523	0.27093442	2.3653383	20	10 2.4	18.0
220182 2002 UD_{34}	17.0	X	338.48758	133.52721	217.41840	13.03930	0.2495166	0.27224087	2.3577649	20	10 4.1	18.5
220183 2002 UO_{39}	14.9	X	18.86599	304.14780	74.50844	5.65208	0.1025946	0.16820085	3.2502537	20	12 12.1	19.2
220184 2002 UR_{52}	17.0	X	22.42608	310.75825	73.78206	6.43939	0.0337896	0.28337775	2.2955788	20	—	—
220185 2002 UA_{57}	15.8	X	255.34373	35.40119	167.97021	10.33501	0.0776614	0.23448226	2.6045302	20	—	—
220186 2002 UH_{71}	17.3	X	357.64128	29.68203	309.60047	1.83592	0.2489615	0.27439430	2.3454130	20	11 5.9	19.2
220187 2002 UZ_{72}	16.7	X	0.18034	306.93458	32.62826	4.78173	0.1468126	0.27435598	2.3456314	20	10 26.3	19.0
220188 2002 VF_{3}	16.5	X	182.42393	201.30097	279.42521	1.77581	0.1675321	0.26159970	2.4212774	20	8 7.5	20.4
220189 2002 VR_{4}	17.3	X	14.53417	133.94303	227.29492	3.39517	0.2512488	0.27861477	2.3216671	20	—	—
220190 2002 VM_{8}	16.7	X	341.51392	137.02060	267.46725	6.58274	0.1250186	0.27816151	2.3241886	20	12 26.0	19.0
220191 2002 VS_{8}	15.4	X	207.93328	65.93592	265.87274	8.67700	0.0925602	0.19164873	2.9794224	20	2 25.8	20.2
220192 2002 VL_{11}	16.9	X	314.43867	297.04067	49.83453	3.24069	0.2401954	0.26709084	2.3879765	20	7 17.4	18.7
220193 2002 VZ_{16}	17.0	X	352.89273	114.33950	271.57148	3.99647	0.2026878	0.27779692	2.3262217	20	12 30.9	19.1
220194 2002 VK_{17}	16.4	X	247.32202	5.35898	77.17454	5.60360	0.1874602	0.26536404	2.3983248	20	8 27.4	19.6
220195 2002 VF_{20}	16.5	X	289.24019	241.64027	216.77431	5.87348	0.0840808	0.27616908	2.3353538	20	12 9.8	18.8
220196 2002 VH_{20}	16.4	X	8.67702	284.03574	52.00194	6.75125	0.2568349	0.27468613	2.3437515	20	11 23.7	18.7
220197 2002 VO_{21}	16.5	X	250.53958	117.29372	322.14271	2.85995	0.2271928	0.26723934	2.3870918	20	8 18.5	19.8
220198 2002 VG_{23}	17.6	X	321.39392	63.54528	333.24242	1.88228	0.2153135	0.27318737	2.3523159	20	11 6.2	19.1
220199 2002 VK_{23}	16.8	X	258.29091	192.90818	276.74160	1.76918	0.1471404	0.27180955	2.3602585	20	10 24.3	19.4
220200 2002 VU_{23}	16.8	X	330.84036	104.86005	267.91227	2.27858	0.1677576	0.27151771	2.3619495	20	10 17.6	18.8
220201 2002 VK_{24}	17.2	X	272.56761	354.29300	94.12746	1.55441	0.1795827	0.27093613	2.3653283	20	10 13.1	19.5
220202 2002 VZ_{25}	17.0	X	340.77228	137.42288	230.83992	1.73843	0.2054503	0.27323388	2.3520489	20	11 7.9	18.4
220203 2002 VA_{26}	17.7	X	294.73506	143.88696	275.82709	1.23124	0.1772367	0.27141872	2.3625237	20	10 11.1	19.6
220204 2002 VP_{26}	17.5	X	319.95983	141.60033	258.52737	2.12481	0.2230262	0.27307078	2.3529854	20	11 8.7	18.7
220205 2002 VH_{30}	16.7	X	245.27818	199.10342	230.65243	5.58914	0.0833080	0.26428824	2.4048287	20	8 17.0	19.9
220206 2002 VY_{37}	16.4	X	356.45351	244.67425	90.56435	7.00951	0.1716975	0.27294007	2.3537366	20	10 19.9	18.6
220207 2002 VY_{40}	17.4	X	336.77055	69.16994	291.83339	2.85257	0.2248541	0.27219601	2.3580239	20	10 16.1	18.9
220208 2002 VT_{44}	16.4	X	280.13264	328.92548	69.93804	7.39237	0.2365861	0.26671591	2.3902139	20	8 2.9	19.1
220209 2002 VY_{47}	16.9	X	14.96910	186.55058	204.53937	3.46999	0.2452056	0.28017546	2.3130374	20	—	—
220210 2002 VO_{48}	16.4	X	305.61948	291.99419	70.39845	7.36733	0.1271175	0.26519660	2.3993342	20	8 12.7	18.9
220211 2002 VJ_{54}	16.3	X	268.59497	28.98210	6.62087	9.98716	0.0381918	0.26442496	2.4039998	20	8 15.9	19.3
220212 2002 VD_{64}	16.3	X	218.14567	105.07590	345.28066	4.70255	0.1790632	0.26305612	2.4123322	20	8 3.8	19.9
220213 2002 VY_{76}	16.9	X	236.00920	336.24174	114.19255	4.00307	0.1556962	0.26563480	2.3966948	20	8 27.2	20.2
220214 2002 VW_{78}	17.1	X	314.18545	210.82794	180.32326	4.29073	0.2477916	0.27130437	2.3631875	20	10 5.5	18.3
220215 2002 VF_{87}	17.0	X	331.18316	42.67199	329.92376	3.15616	0.2017266	0.27203142	2.3589750	20	10 19.6	18.5
220216 2002 VG_{88}	17.3	X	322.46247	110.82854	320.70013	1.58999	0.1863130	0.27819474	2.3240035	20	—	—
220217 2002 VS_{89}	16.5	X	12.91551	237.99624	109.99581	6.79006	0.2193416	0.27682277	2.3316759	20	12 12.3	19.1
220218 2002 VL_{97}	16.4	X	280.88060	91.43734	341.90462	4.86621	0.0695182	0.21586553	2.7522033	20	10 7.5	20.0
220219 2002 VM_{99}	15.9	X	232.43320	113.52009	10.35965	22.13371	0.3350069	0.26619953	2.3933040	20	9 18.9	19.7
220220 2002 VV_{99}	16.5	X	35.47295	85.53553	341.58087	24.82010	0.0719586	0.39765027	1.8314787	20	—	—
220221 2002 VA_{100}	16.4	X	232.89760	79.42549	35.99579	7.57514	0.0672324	0.27057367	2.3674403	20	10 10.9	19.2
220222 2002 VQ_{107}	16.5	X	329.66670	138.01640	255.45726	5.73306	0.1046439	0.27308219	2.3529199	20	11 14.1	18.8
220223 2002 VM_{108}	16.8	X	356.81454	32.01731	342.73901	2.76243	0.2548585	0.27614278	2.3355021	20	12 30.4	19.0
220224 2002 VJ_{111}	17.1	X	325.73705	264.09648	115.05791	6.68048	0.1593883	0.27176528	2.3605148	20	10 21.6	19.1
220225 2002 VH_{123}	15.9	X	303.71835	53.40852	327.51525	6.15389	0.1220582	0.21151098	2.7898494	20	8 26.2	19.2
220226 2002 VC_{126}	16.4	X	298.66761	34.54858	28.90536	8.90396	0.2344489	0.27016992	2.3697983	20	10 19.6	17.7
220227 2002 VO_{126}	16.7	X	334.28429	255.15694	96.77685	8.75905	0.2455650	0.27031050	2.3689766	20	10 1.9	18.2
220228 2002 VQ_{134}	17.7	X	319.75239	28.74724	339.44585	2.01686	0.2396266	0.27012119	2.3700833	20	9 9.0	18.7
220229 Hegedüs	16.9	X	312.14071	53.78870	334.63162	5.25816	0.1319097	0.27156511	2.3616746	20	10 1.1	19.0
220230 2002 VT_{143}	16.8	X	359.87932	111.54432	191.52445	2.24885	0.1664625	0.26726041	2.3869664	20	8 29.3	18.6
220231 2002 WC_{2}	16.9	X	230.50830	17.25560	91.09161	3.69360	0.1507208	0.26680649	2.3896729	20	9 15.6	20.2
220232 2002 WA_{10}	17.3	X	331.16053	312.52117	68.58203	2.99868	0.2289519	0.27259981	2.3556947	20	11 8.2	18.5
220233 2002 WU_{14}	17.2	X	284.48542	238.32638	153.64748	5.22712	0.1936202	0.26579379	2.3957390	20	8 4.6	19.8
220234 2002 WY_{23}	17.2	X	342.68660	258.72532	70.20518	5.41689	0.2043444	0.26775906	2.3840019	20	9 8.5	18.9
220235 2002 XK_{3}	17.2	X	293.24317	254.78336	151.08312	2.78885	0.1870875	0.26889663	2.3772734	20	9 15.0	19.3
220236 2002 XS_{8}	17.5	X	298.99391	222.01473	201.44151	2.08257	0.1909636	0.27190374	2.3597134	20	10 26.3	19.3
220237 2002 XC_{13}	17.7	X	2.89273	200.61832	225.82025	1.72647	0.1642892	0.28228753	2.3014856	20	—	—
220238 2002 XS_{13}	17.3	X	231.04740	316.94155	144.14151	2.90861	0.1482835	0.26506234	2.4001443	20	9 4.9	20.6
220239 2002 XG_{15}	15.2	X	65.89506	134.53543	268.20137	15.20885	0.2436549	0.18035390	3.1025517	20	1 4.7	18.6
220240 2002 XF_{23}	16.7	X	12.78463	41.13042	306.86567	7.12872	0.2899520	0.27655743	2.3331670	20	12 23.3	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220241 2002 XF_{25}	16.6	X	180.13584	59.98723	91.07658	3.31425	0.1148502	0.26352021	2.4094991	20	9 18.9	20.1
220242 2002 XY_{28}	17.3	X	287.21742	307.23655	97.49546	2.31336	0.1808856	0.26669532	2.3903369	20	9 2.6	19.6
220243 2002 XJ_{31}	17.3	X	263.10633	51.12637	1.05750	2.90800	0.1798546	0.26427242	2.4049248	20	8 4.9	20.3
220244 2002 XV_{42}	17.5	X	271.53189	38.29559	46.37160	2.02313	0.1576972	0.26965348	2.3728231	20	10 8.9	19.7
220245 2002 XR_{45}	17.2	X	277.41640	60.58746	333.02773	1.74702	0.1940462	0.26350898	2.4095676	20	7 27.1	20.0
220246 2002 XZ_{55}	16.1	X	217.48296	252.64777	200.74598	8.82009	0.1822924	0.25857208	2.4401412	20	8 2.7	20.0
220247 2002 XK_{64}	16.4	X	232.15300	316.79391	99.83106	7.97179	0.0981711	0.25856647	2.4401765	20	7 12.7	19.6
220248 2002 XU_{67}	17.1	X	214.49070	275.86811	171.46638	2.94945	0.1594927	0.25996459	2.4314196	20	7 26.8	20.8
220249 2002 XD_{75}	16.8	X	244.50108	39.06309	37.48954	3.00308	0.1602579	0.26317289	2.4116186	20	8 17.9	20.1
220250 2002 XG_{76}	16.7	X	268.66646	29.50879	47.88021	3.99130	0.2035788	0.26685539	2.3893810	20	9 16.4	19.4
220251 2002 XN_{77}	16.8	X	296.62488	139.13624	279.55530	5.89402	0.1152497	0.26968602	2.3726322	20	10 17.4	19.4
220252 2002 XO_{82}	16.7	X	339.69604	209.15628	179.48588	7.61856	0.1931251	0.27376649	2.3489973	20	12 7.7	18.8
220253 2002 XG_{93}	17.2	X	282.36592	38.88414	29.47799	1.91074	0.1594539	0.26904096	2.3764232	20	10 3.1	19.4
220254 2002 XB_{97}	17.2	X	256.68011	135.33811	279.01887	1.58938	0.1584952	0.26355544	2.4092843	20	8 1.3	20.1
220255 2002 XH_{107}	16.1	X	264.86788	276.59366	78.31700	12.33458	0.1290623	0.25474228	2.4645371	20	5 26.2	19.4
220256 2002 XK_{118}	17.1	X	286.23084	215.75827	145.20083	2.96903	0.2314005	0.26359274	2.4090570	20	6 15.8	19.9
220257 2002 XR_{119}	16.9	X	335.01176	253.60782	76.34465	2.60214	0.1922763	0.26667080	2.3904834	20	8 17.4	18.6
220258 2002 YT_{8}	16.7	X	203.64396	307.55229	150.89872	2.52585	0.1729555	0.25854724	2.4402975	20	7 29.6	20.6
220259 2002 YD_{9}	16.8	X	235.26132	12.95284	74.82207	2.33313	0.1644982	0.26207370	2.4183570	20	8 20.9	20.0
220260 2002 YH_{9}	16.4	X	215.51824	176.04050	270.50393	4.50739	0.0747698	0.25834418	2.4415761	20	8 3.6	19.7
220261 2002 YJ_{11}	16.1	X	203.13362	334.75143	106.93143	6.78652	0.1042860	0.25653076	2.4530689	20	7 11.7	19.5
220262 2002 YW_{18}	16.5	X	215.87667	346.66615	132.09088	2.76247	0.1599179	0.26374427	2.4081342	20	9 9.9	19.8
220263 2003 AZ_{11}	16.0	X	78.88772	267.06373	249.81409	8.75166	0.0894995	0.24403433	2.5361140	20	5 25.6	19.1
220264 2003 AZ_{19}	16.8	X	265.32131	349.62488	65.37350	6.08789	0.1811326	0.26306543	2.4122753	20	8 13.6	19.8
220265 2003 AK_{28}	16.3	X	175.14570	126.35852	284.02472	10.18304	0.0654139	0.24508460	2.5288634	20	4 25.5	20.1
220266 2003 AN_{28}	17.0	X	263.16715	306.80898	155.09278	2.51861	0.1659079	0.26696266	2.3887409	20	10 18.6	19.4
220267 2003 AG_{37}	16.4	X	235.46398	193.47818	249.21491	4.78211	0.1441301	0.26059481	2.4274979	20	8 13.5	19.8
220268 2003 AL_{39}	16.4	X	299.64189	100.48837	282.57997	9.58776	0.1949563	0.26272601	2.4143525	20	8 15.3	18.8
220269 2003 AP_{43}	16.8	X	323.66416	14.11493	22.09908	2.80965	0.2051393	0.27098797	2.3650267	20	11 10.3	18.2
220270 2003 AQ_{44}	16.6	X	312.37961	48.73564	344.02932	5.17173	0.2130879	0.26809382	2.3820170	20	10 2.4	18.2
220271 2003 AS_{55}	17.0	X	239.05872	2.02072	82.47859	3.47715	0.1322325	0.26004557	2.4309149	20	8 25.9	20.2
220272 2003 AL_{68}	17.0	X	234.17294	346.35187	121.36008	3.71660	0.1306309	0.26303071	2.4124875	20	9 21.3	20.1
220273 2003 AS_{74}	16.9	X	256.31608	88.95728	350.92456	6.01822	0.1421669	0.26372555	2.4082482	20	9 9.3	19.6
220274 2003 AE_{76}	15.9	X	48.14142	169.94480	349.88272	13.74628	0.1216048	0.24040079	2.5616047	20	4 10.9	19.0
220275 2003 AD_{79}	17.1	X	243.44320	217.74142	201.39644	1.79633	0.1811906	0.25742417	2.4473899	20	7 18.4	20.7
220276 2003 AT_{87}	16.6	X	235.37699	198.96108	251.29511	5.28713	0.1640989	0.26120707	2.4237032	20	8 20.7	20.0
220277 2003 BC_{14}	16.0	X	14.55689	235.55492	282.65608	5.90589	0.0419410	0.23463438	2.6034043	20	2 14.8	19.3
220278 2003 BE_{14}	16.4	X	221.45690	273.24806	128.92906	8.96901	0.1324995	0.25167111	2.4845466	20	6 7.9	20.2
220279 2003 BH_{18}	16.5	X	300.79265	282.26224	122.43130	4.26901	0.2056274	0.26393285	2.4069870	20	9 27.6	18.5
220280 2003 BB_{42}	16.0	X	351.12139	229.41824	330.87902	4.59886	0.1661520	0.23410674	2.6073146	20	2 26.7	18.6
220281 2003 BA_{47}	15.5	X	336.47105	45.87528	101.66397	14.89245	0.0322069	0.22512545	2.6762067	20	—	—
220282 2003 BP_{48}	16.6	X	236.63663	278.28479	151.87916	7.66011	0.2093664	0.25665296	2.4522902	20	7 21.8	20.2
220283 2003 BL_{64}	16.8	X	224.59226	165.71962	270.79557	0.68919	0.1585107	0.25709655	2.4494686	20	7 23.6	20.3
220284 2003 BT_{68}	16.4	X	242.13938	299.91074	156.18383	9.82896	0.2182014	0.25978586	2.4325347	20	8 31.9	19.6
220285 2003 BS_{69}	16.0	X	342.00862	138.13376	89.39745	3.37800	0.1099258	0.23795676	2.5791149	20	3 28.7	18.9
220286 2003 BE_{73}	16.4	X	210.96919	151.38431	267.93398	8.07631	0.1798630	0.25156533	2.4852430	20	6 15.2	20.3
220287 2003 BR_{77}	16.9	X	307.80761	217.84180	224.98255	5.15270	0.1938882	0.27089651	2.3655589	20	12 17.9	18.5
220288 2003 BH_{79}	15.6	X	275.46417	224.56492	340.59290	9.53213	0.1790012	0.22326459	2.6910565	20	—	—
220289 2003 BP_{81}	16.4	X	6.08804	90.13607	126.29396	5.11078	0.0729815	0.24066441	2.5597338	20	4 25.4	19.3
220290 2003 BF_{89}	17.4	X	205.08341	124.10079	323.10946	3.58701	0.1848010	0.25234347	2.4801313	20	7 16.0	21.3
220291 2003 CW_{3}	15.2	X	307.14056	358.87090	142.01004	26.00396	0.1339689	0.21713550	2.7414616	20	—	—
220292 2003 CZ_{8}	16.4	X	235.72818	243.03153	224.51738	4.86897	0.2193901	0.26187217	2.4195976	20	9 6.6	20.0
220293 2003 CA_{10}	16.7	X	202.17228	268.25847	179.62550	6.85506	0.1767501	0.25391699	2.4698744	20	7 13.1	20.7
220294 2003 CV_{15}	15.6	X	10.82918	289.12036	284.47861	12.78535	0.0593361	0.23848346	2.5753161	20	4 20.9	19.1
220295 2003 CU_{18}	16.0	X	56.85270	194.24941	359.44558	12.43308	0.1759373	0.24199987	2.5503080	20	6 30.1	19.3
220296 2003 CX_{20}	16.7	X	68.11020	301.99462	204.82129	4.63360	0.0715048	0.23213565	2.6220531	20	4 23.9	19.8
220297 2003 CA_{21}	16.4	X	303.53588	220.96232	302.92984	3.00665	0.0504162	0.22048918	2.7135918	20	—	—
220298 2003 DB_{18}	16.6	X	59.88057	106.19140	54.20964	3.66260	0.1211257	0.23974988	2.5662391	20	5 7.4	19.6
220299 2003 EE_{1}	17.4	X	318.34632	138.61714	349.54956	17.56709	0.0432343	0.38791256	1.8620021	20	—	—
220300 2003 EP_{2}	16.5	X	78.43408	299.27565	155.39187	15.01841	0.0885967	0.23256546	2.6188216	20	3 2.1	19.6
220301 2003 EQ_{5}	15.7	X	237.77783	46.06921	165.35100	7.94034	0.2280389	0.21343369	2.7730694	20	—	—
220302 2003 EX_{11}	15.6	X	226.64853	255.13163	338.00836	10.37658	0.1585233	0.21466061	2.7624928	20	—	—
220303 2003 EC_{13}	17.0	X	73.53725	235.82944	306.49507	3.89336	0.2088376	0.24107442	2.5568307	20	7 12.2	20.3
220304 2003 EQ_{14}	16.8	X	97.83202	113.92931	37.28031	6.39521	0.1007293	0.24297938	2.5434494	20	6 13.8	20.2
220305 2003 EN_{17}	17.4	X	307.82723	247.17409	179.90425	22.13834	0.0937833	0.37633458	1.8999987	20	—	—
220306 2003 ET_{26}	16.2	X	238.87986	219.02042	357.92879	4.07163	0.1691536	0.21548816	2.7554155	20	—	—
220307 2003 EW_{29}	16.9	X	119.58604	312.71406	158.36069	4.21654	0.1291152	0.24256931	2.5463151	20	5 22.5	20.5
220308 2003 EK_{32}	16.6	X	102.07790	208.92456	299.51416	3.11848	0.1136237	0.24279863	2.5447116	20	6 17.8	20.1
220309 2003 EZ_{36}	16.6	X	147.48226	208.03259	2.96785	21.49986	0.0373908	0.37550440	1.9027980	20	11 14.9	19.2
220310 2003 ER_{38}	15.7	X	295.72219	287.22478	258.77597	11.56631	0.1018634	0.22145816	2.7056706	20	—	—
220311 2003 EU_{42}	15.8	X	51.43744	338.28742	180.72668	7.82755	0.1369414	0.23478825	2.6022667	20	4 25.6	18.7
220312 2003 EX_{42}	13.1	X	317.69767	206.26474	182.96705	13.58546	0.1151419	0.08347565	5.1851680	20	9 8.3	19.5
220313 2003 EH_{45}	15.8	X	200.16206	33.34284	210.17204	7.35948	0.1666340	0.21170911	2.7881086	20	—	—
220314 2003 EC_{47}	16.2	X	63.66798	318.18606	225.05433	11.99770	0.2191850	0.23912327	2.5707203	20	6 29.6	19.6
220315 2003 EZ_{59}	17.0	X	295.53611	80.51477	10.16702	23.74966	0.1108065	0.37899044	1.8911118	20	—	—
220316 2003 EL_{60}	16.2	X	76.56996	47.94816	130.58905	4.06810	0.1441870	0.24214773	2.5492697	20	6 30.6	19.4
220317 2003 EC_{62}	16.1	X	210.77028	356.36405	336.52348	10.15830	0.0745711	0.23164396	2.6257622	20	3 1.3	20.1
220318 2003 EG_{63}	12.7	X	34.17268	300.85586	23.37779	11.15107	0.0250331	0.08490802	5.1266884	20	10 5.6	19.4
220319 2003 FK_{8}	17.1	X	20.61191	4.43886	2.98403	19.35751	0.0851436	0.37658042	1.8991717	20	—	—
220320 2003 FU_{10}	16.5	X	150.14457	268.02527	37.52584	4.16687	0.0805504	0.21305937	2.7763164	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220321 2003 FR_{12}	14.8	X	296.45523	222.84377	4.68715	22.49748	0.0216257	0.22846939	2.6500295	20	2 15.1	18.7
220322 2003 FN_{25}	16.0	X	160.55228	293.42859	6.58099	8.68885	0.1103363	0.21554661	2.7549174	20	—	—
220323 2003 FO_{27}	16.5	X	216.67561	153.02410	200.95220	3.65273	0.0248830	0.23358535	2.6111931	20	4 6.3	20.0
220324 2003 FA_{32}	12.8	X	267.58065	66.09439	18.78361	8.01872	0.0680359	0.08483284	5.1297168	20	9 18.4	19.6
220325 2003 FV_{40}	17.3	X	213.42320	70.61709	37.62606	6.81248	0.1794559	0.25618511	2.4552749	20	8 24.2	21.1
220326 2003 FS_{66}	16.3	X	89.78694	307.66348	170.17701	14.41687	0.1371510	0.23479417	2.6022230	20	4 28.4	19.9
220327 2003 FQ_{82}	15.9	X	306.92176	81.35645	131.46037	4.77504	0.1453744	0.22262286	2.6962255	20	1 12.9	19.4
220328 2003 FO_{97}	15.9	X	250.29011	216.60129	9.39609	6.14779	0.0606688	0.21778150	2.7360376	20	—	—
220329 2003 FJ_{110}	15.5	X	106.16556	310.68216	342.39292	6.42025	0.1313845	0.20305804	2.8667463	20	12 19.1	20.1
220330 2003 FZ_{119}	15.6	X	67.53240	299.78266	177.35485	16.41814	0.1984548	0.17665455	3.1457159	20	4 8.2	19.6
220331 2003 FG_{124}	16.3	X	278.20249	39.28246	181.54896	2.90581	0.0427759	0.22352418	2.6889726	20	1 2.2	19.9
220332 2003 FR_{130}	16.2	X	51.78282	341.37909	216.31842	12.56510	0.0962103	0.23698018	2.5861956	20	6 12.8	19.5
220333 2003 FM_{133}	13.8	X	176.39022	336.16502	203.17867	2.86785	0.0660558	0.08311838	5.2000159	20	9 27.5	21.0
220334 2003 GV_{3}	15.9	X	255.76245	219.83790	10.67863	4.05939	0.0637932	0.21844553	2.7304901	20	—	—
220335 2003 GD_{8}	12.8	X	248.14063	86.96858	15.61939	15.01349	0.0658967	0.08404753	5.1616208	20	9 18.8	19.7
220336 2003 GM_{8}	13.6	X	159.63964	291.88957	262.25244	1.11636	0.1114267	0.08292631	5.2080422	20	9 28.3	20.9
220337 2003 GY_{11}	17.2	X	60.31503	351.07842	157.37473	3.62877	0.0989291	0.23647749	2.5898594	20	4 19.2	20.3
220338 2003 GD_{14}	15.4	X	296.64694	227.24256	23.20701	13.49953	0.1150513	0.22913773	2.6448739	20	2 26.8	19.2
220339 2003 GX_{16}	15.7	X	251.26183	56.99555	143.56678	12.66250	0.1025912	0.21368647	2.7708820	20	—	—
220340 2003 GA_{18}	16.7	X	113.64146	45.69399	342.84487	1.27701	0.1014671	0.22242256	2.6978440	20	1 26.9	20.3
220341 2003 GY_{20}	15.9	X	324.73156	191.08394	17.36450	9.07936	0.1528382	0.22444693	2.6815976	20	2 2.2	19.4
220342 2003 GP_{27}	13.4	X	259.84526	93.55871	2.89475	3.36764	0.0631304	0.08489197	5.1273343	20	9 21.7	20.2
220343 2003 GZ_{34}	15.6	X	87.96273	249.74552	184.18717	21.67101	0.0589784	0.22452998	2.6809363	20	2 10.1	19.5
220344 2003 GK_{41}	15.9	X	248.31577	77.84751	187.25196	11.29788	0.0304345	0.22142083	2.7059747	20	1 21.4	20.0
220345 2003 GG_{44}	15.3	X	46.26007	146.91161	113.41570	15.64727	0.2866292	0.18436728	3.0573617	20	10 1.1	19.7
220346 2003 GR_{51}	15.9	X	114.39454	320.34318	28.73834	5.47023	0.0674238	0.21545048	2.7557368	20	—	—
220347 2003 GH_{54}	15.7	X	327.33700	227.47233	286.04909	8.17088	0.1685387	0.22030195	2.7151291	20	—	—
220348 2003 HB_{5}	16.3	X	346.98127	75.16329	105.28634	4.81365	0.1468380	0.22296050	2.6935028	20	1 28.4	19.4
220349 2003 HK_{11}	16.4	X	176.75786	57.43375	248.41420	2.11272	0.0772573	0.21623713	2.7490494	20	—	—
220350 2003 HN_{13}	16.4	X	118.57174	165.89733	122.36390	3.11718	0.0352771	0.20283793	2.8688198	20	12 21.4	20.5
220351 2003 HK_{22}	12.8	X	189.75049	314.16436	208.24698	11.81296	0.0189137	0.08195730	5.2490126	20	9 21.8	19.9
220352 2003 HQ_{23}	16.5	X	169.19205	29.41013	21.07865	9.86569	0.1405153	0.23594551	2.5937507	20	4 24.6	20.5
220353 2003 HH_{55}	15.4	X	253.33907	198.94921	357.51446	11.82435	0.2333568	0.21197991	2.7857336	20	—	—
220354 2003 JP_{1}	15.5	X	286.82057	149.34504	62.61941	10.21293	0.0872285	0.21719388	2.7409703	20	—	—
220355 2003 JG_{11}	13.5	X	220.09061	125.25725	0.57664	1.40577	0.1578351	0.08103219	5.2888874	20	9 4.5	21.0
220356 2003 JJ_{15}	13.0	X	173.86681	334.09063	203.61407	11.43705	0.0370849	0.08187839	5.2523846	20	9 21.9	20.1
220357 2003 MP_{4}	15.3	X	63.95937	151.94451	149.06989	5.10991	0.1394973	0.18679818	3.0307792	20	11 15.4	19.8
220358 2003 MR_{4}	14.9	X	36.68206	21.11602	276.96995	15.15580	0.2844863	0.18140929	3.0905067	20	10 22.5	19.3
220359 2003 NN_{1}	14.8	X	354.00851	68.01640	273.50958	13.16655	0.2057994	0.17740759	3.1368078	20	9 19.8	18.4
220360 2003 NV_{2}	14.8	X	31.14935	343.05355	311.74596	16.28229	0.1876088	0.17883235	3.1201250	20	9 21.4	19.0
220361 2003 NL_{5}	16.6	X	36.04581	211.17119	269.34006	2.42971	0.0642416	0.21880531	2.7274961	20	1 31.8	20.1
220362 2003 NK_{6}	15.0	X	323.14102	106.32457	241.84834	24.70750	0.2574391	0.17205441	3.2015394	20	7 15.9	18.9
220363 2003 NN_{6}	15.5	X	19.87811	172.20879	179.43411	9.42659	0.1713167	0.18375926	3.0641020	20	11 25.4	19.5
220364 2003 NT_{12}	15.4	X	359.04258	192.67048	127.80871	7.68169	0.1789269	0.17597794	3.1537739	20	9 9.0	18.8
220365 2003 NX_{12}	15.9	X	340.48100	180.86332	156.94377	16.34586	0.2689292	0.17429622	3.1740279	20	8 20.6	18.6
220366 2003 OO_{4}	15.0	X	304.38212	222.80637	141.31755	8.09884	0.1571567	0.17342986	3.1845896	20	7 25.7	19.0
220367 2003 OO_{8}	15.2	X	351.18334	190.94683	115.22711	18.46571	0.2500626	0.17377591	3.1803603	20	8 2.8	18.1
220368 2003 OV_{8}	15.3	X	106.98734	58.98457	190.36311	13.48153	0.0645743	0.18477592	3.0528523	20	10 22.4	19.8
220369 2003 OZ_{9}	15.3	X	56.30923	106.76724	155.92989	11.40436	0.0856272	0.17821266	3.1273537	20	9 10.1	19.5
220370 2003 OO_{12}	14.2	X	6.21033	81.15196	265.71548	20.56426	0.3389400	0.17747618	3.1359996	20	11 17.3	17.6
220371 2003 OR_{12}	15.0	X	344.23721	183.46648	227.87817	16.61679	0.3076457	0.18350923	3.0668847	20	12 23.8	18.0
220372 2003 ON_{14}	14.6	X	0.57083	79.95929	240.58686	14.47139	0.2081617	0.17541649	3.1604999	20	9 4.6	18.3
220373 2003 OB_{15}	15.0	X	12.39534	14.66365	292.18023	14.47402	0.2676030	0.17521914	3.1628725	20	9 15.9	18.7
220374 2003 OV_{24}	15.2	X	350.88057	145.22050	260.96985	4.56840	0.0962467	0.18833745	3.0142430	20	12 11.2	18.9
220375 2003 OO_{26}	15.5	X	290.60387	89.39850	299.67313	9.56324	0.0822462	0.17454127	3.1710563	20	8 15.8	19.8
220376 2003 OX_{32}	14.9	X	342.92232	188.65152	191.19171	10.81286	0.1708009	0.17893701	3.1189082	20	10 28.2	18.3
220377 2003 PV	14.6	X	350.02244	11.88160	335.97087	22.36335	0.2267926	0.17458691	3.1705037	20	9 19.9	18.0
220378 2003 QQ	15.0	X	305.15205	31.23821	316.35269	12.52031	0.0323614	0.16952940	3.2332506	20	7 22.8	19.4
220379 2003 QF_{4}	14.9	X	308.01632	96.62994	309.28835	8.99502	0.0836394	0.17888214	3.1195460	20	9 29.7	19.0
220380 2003 QO_{22}	14.7	X	341.18304	61.19756	325.61860	15.76016	0.0597301	0.17971718	3.1098753	20	10 21.4	19.1
220381 2003 QF_{23}	14.4	X	239.02034	136.95909	331.97153	16.24987	0.0641031	0.17562123	3.1580431	20	9 18.8	19.0
220382 2003 QD_{30}	14.8	X	318.15238	4.44764	343.38010	19.37369	0.1395371	0.17218833	3.1998791	20	8 4.9	18.9
220383 2003 QO_{42}	14.8	X	53.81711	275.71362	335.48419	14.63161	0.0717704	0.17158352	3.2073941	20	8 20.9	19.1
220384 2003 QN_{44}	14.9	X	4.62961	38.71457	323.22646	10.86807	0.2737820	0.18049407	3.1009452	20	11 23.1	18.4
220385 2003 QU_{45}	14.7	X	325.85457	357.73772	344.22963	21.03197	0.0365396	0.17076687	3.2176117	20	8 16.8	19.2
220386 2003 QK_{46}	15.1	X	356.55959	320.46529	49.67057	3.79764	0.0816089	0.18045393	3.1014051	20	11 1.3	19.0
220387 2003 QN_{48}	15.8	X	294.63511	12.27493	6.12243	0.41242	0.1474089	0.16958355	3.2325623	20	7 31.3	19.8
220388 2003 QK_{51}	14.9	X	303.09847	312.21584	127.61779	5.76289	0.3046499	0.17719751	3.1392867	20	10 16.5	18.1
220389 2003 QE_{68}	14.8	X	82.49524	283.27145	330.77495	14.30054	0.2006339	0.18046409	3.1012886	20	10 7.9	19.9
220390 2003 QE_{69}	14.6	X	25.91766	324.02912	356.46171	17.86990	0.2503479	0.17857186	3.1231586	20	10 27.5	18.8
220391 2003 QM_{72}	14.5	X	297.22777	136.46879	276.71690	11.23669	0.1895839	0.17536381	3.1611328	20	9 7.2	18.7
220392 2003 QN_{73}	15.0	X	330.71231	53.53110	315.10099	10.68192	0.0683830	0.17701226	3.1414766	20	9 16.1	19.3
220393 2003 QN_{88}	17.2	X	257.64556	355.36468	4.70781	24.22620	0.1221160	0.39467428	1.8406738	20	5 8.9	19.8
220394 2003 QR_{98}	15.7	X	270.06464	120.83989	345.40824	4.66072	0.1290506	0.18168349	3.0873965	20	10 19.8	19.8
220395 2003 QJ_{109}	14.6	X	33.06280	347.22337	308.25635	16.30480	0.1803621	0.17532244	3.1616300	20	9 23.1	18.9
220396 2003 RR_{4}	14.7	X	320.19551	108.98597	273.33194	15.52583	0.1433475	0.17485016	3.1673206	20	9 8.1	18.8
220397 2003 RK_{10}	15.7	X	78.72917	65.16910	182.46723	0.80616	0.1411769	0.17677338	3.1443060	20	9 25.3	20.3
220398 2003 RC_{11}	15.1	X	356.60263	134.56889	259.14894	7.40502	0.2276650	0.18271125	3.0758078	20	12 16.9	18.5
220399 2003 RA_{16}	14.7	X	60.24345	314.16169	342.05539	15.72952	0.1008694	0.17943423	3.1131439	20	10 21.1	19.3
220400 2003 RF_{20}	15.2	X	307.36682	287.20767	166.54597	12.29127	0.2966693	0.18016493	3.1047208	20	11 17.6	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220401 2003 SM_{23}	14.4	X	339.38984	35.63140	306.71272	8.18660	0.1985949	0.17131529	3.2107412	20	8 24.7	17.8
220402 2003 SJ_{38}	14.6	X	216.79749	144.63107	260.87179	9.59986	0.1460955	0.15783295	3.3910766	20	6 4.6	19.9
220403 2003 SH_{48}	14.7	X	330.87521	13.72917	355.04948	6.58394	0.1336234	0.17229354	3.1985764	20	9 18.1	18.2
220404 2003 SP_{55}	14.8	X	341.24819	123.04422	206.85767	6.93693	0.1076045	0.16974808	3.2304732	20	8 12.7	18.9
220405 2003 SY_{55}	14.9	X	313.33150	144.20253	246.22248	5.51701	0.0502656	0.17455385	3.1709040	20	9 21.6	19.2
220406 2003 SG_{56}	14.7	X	231.84042	172.08108	283.18518	6.00578	0.0945133	0.17106979	3.2138123	20	8 23.2	19.5
220407 2003 SP_{58}	14.9	X	310.79616	125.05055	264.97329	10.47121	0.1452082	0.17397844	3.1778917	20	9 5.2	19.0
220408 2003 SG_{66}	14.9	X	346.57308	318.29685	92.04991	6.57411	0.1620463	0.18098649	3.0953181	20	12 12.9	18.4
220409 2003 SQ_{76}	14.8	X	313.78443	215.18375	196.64193	18.41930	0.1844772	0.17385535	3.1793915	20	10 11.8	18.2
220410 2003 SM_{89}	14.7	X	114.73215	352.24108	228.83121	13.10664	0.0458954	0.17383340	3.1796592	20	9 17.6	19.6
220411 2003 SN_{122}	15.2	X	331.03092	172.15907	216.90038	12.32959	0.1413880	0.17749121	3.1358226	20	10 15.2	18.9
220412 2003 SL_{128}	15.0	X	194.72845	51.20433	355.62585	7.24207	0.1213529	0.15428820	3.4428194	20	5 15.5	20.5
220413 2003 SD_{193}	15.0	X	1.04792	143.87645	232.73026	9.86009	0.0507567	0.17818145	3.1277189	20	11 12.4	19.1
220414 2003 SK_{193}	15.1	X	335.81534	225.48177	227.11900	11.95004	0.1746450	0.18590591	3.0404690	20	—	—
220415 2003 SW_{195}	15.3	X	349.86022	181.27876	238.89180	7.92776	0.0395180	0.18290285	3.0736593	20	12 20.9	19.4
220416 2003 SM_{196}	15.1	X	313.12917	173.15307	230.32560	3.84787	0.1943864	0.17242296	3.1969756	20	9 26.2	18.8
220417 2003 SS_{197}	14.9	X	73.33991	239.37798	15.53616	18.07638	0.1328196	0.17359413	3.1825803	20	9 29.1	19.5
220418 Golovyno	15.6	X	328.35533	356.94810	11.49176	8.88024	0.0411951	0.17257925	3.1950451	20	9 18.9	19.8
220419 2003 SL_{230}	15.7	X	3.84202	288.61972	93.00891	2.52751	0.1666223	0.18154632	3.0889515	20	12 5.8	19.4
220420 2003 SH_{231}	15.6	X	33.30012	294.79929	52.04749	5.76348	0.1364689	0.18111248	3.0938824	20	11 30.2	19.7
220421 2003 SU_{246}	15.0	X	266.59376	24.34673	28.00120	4.09200	0.1122062	0.16708743	3.2646768	20	8 12.1	19.5
220422 2003 SQ_{257}	15.4	X	253.67224	301.22878	127.53792	2.62289	0.0852814	0.16828058	3.2492270	20	8 19.4	19.9
220423 2003 SM_{284}	14.7	X	292.61867	209.77749	222.39533	10.81476	0.0360943	0.17725073	3.1386582	20	10 19.3	18.9
220424 2003 SE_{295}	15.1	X	298.74175	176.21606	219.91506	8.51614	0.0813117	0.17378076	3.1803012	20	9 4.4	19.5
220425 2003 SL_{304}	14.7	X	281.56794	146.44361	184.50765	10.32434	0.0989467	0.15753074	3.3954122	20	5 22.0	19.6
220426 2003 SD_{329}	15.2	X	142.75600	345.69779	183.14493	22.05792	0.0619356	0.17055897	3.2202260	20	8 17.9	20.3
220427 2003 TN_{46}	15.9	X	328.84300	96.87812	345.90924	7.29021	0.0727092	0.18186959	3.0852900	20	12 21.6	19.9
220428 2003 UJ_{3}	18.2	X	207.68797	150.76558	157.17593	2.30598	0.2247438	0.31916661	2.1205951	20	1 18.9	21.6
220429 2003 UD_{28}	15.2	X	305.30734	211.63594	248.05622	8.61797	0.0190732	0.18041521	3.1018488	20	12 11.2	19.4
220430 2003 UK_{28}	15.4	X	291.43451	38.69257	35.23927	10.40524	0.0865965	0.17435018	3.1733730	20	10 16.3	19.6
220431 2003 UH_{51}	15.4	X	319.09879	78.49554	328.93718	14.29937	0.1201621	0.17440319	3.1727299	20	10 12.6	19.5
220432 2003 UL_{61}	14.9	X	274.14978	65.91886	26.89560	25.69434	0.2239396	0.17372164	3.1810227	20	10 2.7	19.3
220433 2003 UC_{183}	15.1	X	202.90527	28.11636	13.54299	6.83567	0.1132676	0.15345146	3.4553233	20	5 17.9	20.6
220434 2003 UX_{211}	15.9	X	312.10190	124.52981	271.72160	0.75685	0.1415708	0.16942793	3.2345414	20	9 20.7	19.7
220435 2003 UX_{263}	14.4	X	211.66589	281.51619	118.12469	9.24922	0.1646603	0.15396464	3.4476411	20	5 25.1	20.0
220436 2003 UO_{283}	16.9	X	102.20391	72.78474	327.79550	3.96541	0.1268738	0.31249117	2.1506887	20	1 14.9	18.8
220437 2003 UD_{294}	15.0	X	231.87280	326.95592	237.68097	9.21041	0.0504188	0.18824239	3.0152576	20	—	—
220438 2003 WD_{7}	14.8	X	318.02607	268.29870	142.19186	25.86041	0.2620011	0.17457470	3.1706515	20	10 19.9	18.5
220439 2003 WL_{31}	14.8	X	213.78368	303.32872	234.50036	14.42252	0.0311323	0.17682724	3.1436675	20	11 21.6	19.2
220440 2003 WH_{41}	16.8	X	289.90437	243.47895	311.01750	2.66567	0.0990029	0.30640083	2.1790946	20	—	—
220441 2003 WC_{84}	15.3	X	323.27023	80.60785	12.71501	25.47996	0.2337901	0.17781811	3.1319781	20	12 25.3	19.0
220442 2003 WQ_{91}	15.4	X	278.15544	322.12445	121.01703	5.97817	0.1417774	0.16976641	3.2302406	20	10 2.3	19.7
220443 2003 WV_{145}	15.5	X	219.91657	96.66568	61.41570	10.83460	0.1067774	0.17036225	3.2227044	20	10 28.7	20.3
220444 2003 WL_{183}	17.1	X	235.05817	309.79324	335.12841	3.94984	0.0490972	0.31402985	2.1436576	20	1 18.3	19.7
220445 2003 WR_{194}	17.4	X	310.00418	108.47898	65.96436	5.48618	0.0648934	0.30783965	2.1722994	20	—	—
220446 2003 YX_{29}	16.8	X	309.59766	95.44737	29.19967	4.91803	0.1362989	0.29219119	2.2491822	20	—	—
220447 2003 YG_{40}	17.2	X	95.41105	254.90313	105.23893	4.68808	0.1710936	0.30120139	2.2041006	20	—	—
220448 2003 YF_{65}	16.3	X	20.84972	312.97726	105.44270	5.11441	0.1517721	0.29670065	2.2263343	20	—	—
220449 2003 YN_{109}	15.9	X	81.46237	24.70393	135.98677	12.89630	0.2053313	0.25967023	2.4332568	20	6 23.2	19.3
220450 2003 YW_{111}	15.0	X	336.59563	156.15340	315.70072	8.11907	0.0339046	0.18077966	3.0976785	20	—	—
220451 2003 YY_{111}	17.1	X	84.20291	10.56481	39.64522	4.92216	0.0732848	0.30892731	2.1671976	20	—	—
220452 2003 YN_{117}	17.2	X	131.43994	7.64597	4.00698	6.80708	0.2937156	0.31166424	2.1544912	20	2 10.5	20.2
220453 2003 YS_{120}	16.9	X	41.49564	352.78253	51.21082	6.47402	0.1440916	0.29821308	2.2188005	20	—	—
220454 2003 YD_{131}	17.3	X	346.71891	137.80779	325.37561	5.95485	0.1037169	0.29831211	2.2183094	20	—	—
220455 2003 YQ_{163}	17.9	X	132.25314	343.05411	47.58759	3.35641	0.1253003	0.31510135	2.1387952	20	2 13.5	20.3
220456 2004 AJ_{5}	16.8	X	9.15108	109.43062	329.81022	2.62858	0.1397769	0.29661770	2.2267494	20	—	—
220457 2004 BY_{10}	16.9	X	305.43129	138.04470	306.52511	6.15203	0.0994771	0.28525610	2.2854905	20	12 20.8	19.0
220458 2004 BJ_{20}	16.2	X	45.78615	259.29373	319.33737	7.84313	0.1775839	0.26154123	2.4216383	20	7 20.2	18.7
220459 2004 BA_{25}	17.0	X	53.82941	124.02883	281.55692	2.96042	0.1591014	0.29990953	2.2104255	20	—	—
220460 2004 BE_{30}	16.8	X	251.34508	133.72128	344.46344	3.91953	0.0692244	0.28100656	2.3084745	20	11 8.8	19.4
220461 2004 BD_{36}	14.7	X	353.08907	109.85759	59.40853	2.72454	0.0666012	0.12531708	3.9548427	20	2 16.9	20.0
220462 2004 BP_{36}	16.9	X	76.55981	299.36406	319.68499	6.03693	0.1247719	0.27426287	2.3461622	20	10 16.6	20.3
220463 2004 BA_{40}	16.5	X	76.93379	131.23898	279.74092	2.62991	0.1125154	0.30469822	2.1872047	20	—	—
220464 2004 BE_{40}	17.5	X	316.11127	327.37996	142.86708	3.16038	0.0878975	0.29153157	2.2525736	20	—	—
220465 2004 BF_{52}	17.0	X	113.60937	243.61684	331.54628	1.48182	0.1647413	0.27105066	2.3646620	20	10 4.1	20.6
220466 2004 BB_{58}	16.4	X	121.80022	270.74721	328.41079	5.74656	0.0629040	0.27582776	2.3372799	20	11 7.2	19.6
220467 2004 BN_{67}	16.8	X	189.48637	249.70093	294.74337	6.14957	0.0346037	0.28339040	2.2955105	20	11 21.2	19.7
220468 2004 BB_{71}	16.9	X	282.01819	141.26686	331.28632	3.87759	0.0798478	0.28544440	2.2844853	20	12 21.2	19.2
220469 2004 BU_{78}	17.3	X	77.09459	17.86901	21.19986	3.03598	0.1433230	0.30270526	2.1967944	20	—	—
220470 2004 BV_{97}	16.8	X	227.23005	274.03041	159.45136	7.08029	0.0814170	0.26643879	2.3918709	20	7 31.4	19.9
220471 2004 BL_{102}	16.7	X	230.28090	200.33126	300.65603	2.95690	0.1305236	0.27829087	2.3234682	20	10 31.3	19.6
220472 2004 BM_{103}	16.4	X	217.69107	358.07991	138.75847	7.46323	0.0645196	0.27778832	2.3262697	20	10 23.6	19.4
220473 2004 BN_{110}	16.5	X	145.33372	176.03244	31.48805	9.23311	0.1676204	0.27340957	2.3510412	20	10 24.7	20.2
220474 2004 BL_{140}	17.8	X	67.62642	98.03866	288.09402	2.24498	0.1871583	0.29974296	2.2112443	20	—	—
220475 2004 BD_{143}	17.7	X	114.36896	205.65951	41.27478	2.58458	0.1675014	0.27744696	2.3281774	20	11 15.2	21.4
220476 2004 CF_{4}	16.6	X	155.37345	218.75955	345.95240	6.24441	0.0556537	0.27847720	2.3224317	20	11 1.6	19.8
220477 2004 CS_{14}	16.3	X	130.13746	227.60504	328.41908	5.95341	0.0675607	0.27103701	2.3647414	20	9 20.3	19.5
220478 2004 CR_{15}	17.0	X	64.46870	152.07611	142.48857	5.13042	0.1525236	0.27599462	2.3363378	20	11 26.3	20.4
220479 2004 CR_{17}	17.2	X	273.01025	275.17211	152.11288	7.33211	0.0900538	0.27591301	2.3367985	20	9 29.4	19.7
220480 2004 CX_{17}	17.1	X	291.29096	104.78303	356.69850	4.43272	0.0962463	0.28516473	2.2859787	20	12 19.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220481 2004 CE_{29}	16.9	X	352.13364	148.71798	127.87858	3.01140	0.1964717	0.26271103	2.4144442	20	6 26.7	18.6
220482 2004 CV_{35}	16.6	X	273.22415	190.39464	332.59511	3.11628	0.1167969	0.28930531	2.2641148	20	—	—
220483 2004 CX_{35}	17.0	X	209.54201	154.11838	335.59850	5.08120	0.1739668	0.27460974	2.3441861	20	9 15.5	20.5
220484 2004 CH_{55}	17.0	X	27.60442	321.35920	301.46297	1.42063	0.1426148	0.26215236	2.4178733	20	8 17.1	19.5
220485 2004 CF_{63}	16.7	X	331.43534	64.33607	58.17981	6.95307	0.0477081	0.29424498	2.2387040	20	—	—
220486 2004 CN_{77}	17.4	X	114.53396	245.31316	325.96504	2.04117	0.1395348	0.26975035	2.3722550	20	9 28.2	20.8
220487 2004 CT_{77}	17.6	X	306.62856	126.45531	306.54699	2.29197	0.1472199	0.28387912	2.2928752	20	12 4.6	19.4
220488 2004 CX_{81}	16.5	X	111.78872	301.00323	323.75743	5.76115	0.0845251	0.27939798	2.3173264	20	12 2.0	19.8
220489 2004 CJ_{84}	17.3	X	154.48466	173.50636	6.31596	1.27729	0.1297570	0.27273803	2.3548988	20	9 28.5	20.6
220490 2004 CR_{91}	16.4	X	179.05144	219.19524	280.56284	6.43271	0.0578085	0.27091026	2.3654789	20	9 1.4	19.7
220491 2004 CY_{120}	17.2	X	345.39456	3.55731	326.92407	3.58399	0.1786535	0.26866441	2.3786431	20	9 11.6	18.9
220492 2004 CJ_{123}	17.1	X	49.05724	281.43776	324.13467	2.26967	0.1531250	0.26354684	2.4093368	20	8 28.7	20.0
220493 2004 CD_{129}	16.6	X	332.24720	229.60234	89.51041	2.40078	0.2074038	0.26428096	2.4048729	20	7 18.9	18.3
220494 2004 DK	16.5	X	224.17635	304.69982	221.60123	5.22129	0.1334674	0.28063468	2.3105134	20	11 28.5	19.2
220495 Margarethe	16.0	X	298.52205	61.35293	8.78634	23.60149	0.2362123	0.28119662	2.3074342	20	10 23.9	17.8
220496 2004 DB_{1}	16.6	X	129.41795	227.99138	349.19828	3.94347	0.1854119	0.27180713	2.3602725	20	10 21.2	20.4
220497 2004 DD_{1}	17.3	X	186.13226	199.43078	330.78933	2.05782	0.1242556	0.27783867	2.3259886	20	10 18.9	20.5
220498 2004 DG_{5}	16.5	X	51.12053	137.74837	129.12673	4.55230	0.1498868	0.26646300	2.3917261	20	10 3.1	19.5
220499 2004 DD_{10}	16.5	X	218.87848	169.72794	343.18763	8.15980	0.1512368	0.27824182	2.3237413	20	10 27.7	19.8
220500 2004 DM_{11}	17.3	X	247.21140	344.19968	196.25879	2.41974	0.1007462	0.28708627	2.2757669	20	—	—
220501 2004 DB_{18}	17.4	X	163.60805	64.96068	115.69743	3.48134	0.1510294	0.27269184	2.3551647	20	10 9.8	20.9
220502 2004 DG_{21}	16.9	X	180.01546	217.38727	306.79128	3.25128	0.1092876	0.27288272	2.3540663	20	10 3.9	20.3
220503 2004 DP_{21}	16.5	X	134.07969	18.33186	207.18775	5.78797	0.0905440	0.27387973	2.3483498	20	11 6.3	19.9
220504 2004 DP_{31}	17.1	X	169.94474	20.98115	163.90451	9.00011	0.1014625	0.27660621	2.3328927	20	10 25.6	20.5
220505 2004 DL_{33}	16.4	X	109.47894	239.88818	1.50648	4.86732	0.1215677	0.27142949	2.3624612	20	10 30.4	19.8
220506 2004 DE_{35}	16.8	X	87.90664	326.52746	246.06999	4.63436	0.1594806	0.26478315	2.4018312	20	9 1.0	20.2
220507 2004 DH_{44}	17.3	X	147.26064	283.02647	285.80801	1.81782	0.1787072	0.27285983	2.3541980	20	10 27.1	21.2
220508 2004 DH_{47}	16.6	X	119.67438	10.69959	193.22462	6.19095	0.0769142	0.26868394	2.3785279	20	9 19.9	19.8
220509 2004 DA_{60}	17.2	X	309.37437	145.98957	322.04399	1.69505	0.1719865	0.28947619	2.2632237	20	—	—
220510 2004 EQ_{7}	17.0	X	148.88510	134.11276	30.16030	1.84454	0.1267692	0.26621595	2.3932056	20	9 2.5	20.5
220511 2004 ET_{9}	15.8	X	147.61127	9.01366	200.28306	23.63417	0.1855567	0.27096049	2.3651866	20	10 29.5	19.7
220512 2004 EH_{17}	16.3	X	133.91941	143.19115	60.98931	7.16058	0.0506545	0.26918148	2.3755961	20	10 10.2	19.5
220513 2004 EW_{19}	16.8	X	41.06363	133.98992	88.97438	5.62942	0.1398162	0.25516392	2.4618214	20	7 10.5	19.3
220514 2004 EF_{21}	17.2	X	9.45847	294.85209	2.18287	3.29601	0.1587585	0.26224269	2.4173180	20	9 8.2	19.2
220515 2004 EZ_{21}	16.4	X	212.93886	6.96508	157.43080	5.61354	0.0877455	0.27684081	2.3315746	20	11 18.6	19.4
220516 2004 ES_{29}	17.3	X	26.84914	247.60756	28.30462	1.44276	0.1671628	0.26155108	2.4215775	20	9 9.5	19.6
220517 2004 ER_{34}	16.6	X	169.36298	140.55797	56.16362	3.14545	0.1451864	0.27360899	2.3498987	20	11 3.9	20.1
220518 2004 EP_{43}	16.5	X	272.42963	167.64147	317.42175	7.33205	0.1398841	0.28125541	2.3071126	20	12 15.1	18.8
220519 2004 EG_{54}	16.6	X	346.77174	297.10177	8.43447	6.83464	0.1025963	0.26156516	2.4214906	20	8 4.4	19.1
220520 2004 EW_{62}	16.4	X	299.84872	107.31432	334.16160	8.16173	0.0612332	0.28007795	2.3135742	20	12 3.5	19.1
220521 2004 EF_{70}	16.9	X	72.98968	66.63151	169.66728	2.53654	0.1403973	0.26345216	2.4099140	20	9 15.4	20.1
220522 2004 EQ_{70}	16.9	X	0.38072	274.53550	351.96293	6.11117	0.0973403	0.25651797	2.4531504	20	6 27.3	19.5
220523 2004 EP_{73}	17.2	X	224.60157	111.68821	25.82241	2.47148	0.1669090	0.27598343	2.3364010	20	10 15.1	20.3
220524 2004 EH_{78}	16.7	X	101.00078	157.35696	81.33301	3.01988	0.0988996	0.26837569	2.3803488	20	10 18.5	19.9
220525 2004 ET_{83}	16.9	X	270.41685	61.26621	175.14861	18.55306	0.2107277	0.23388801	2.6089399	20	—	—
220526 2004 EA_{86}	16.7	X	338.06971	33.95763	82.80443	4.48026	0.1632307	0.29208717	2.2497162	20	—	—
220527 2004 EO_{96}	16.9	X	347.92055	176.54041	162.89645	6.59717	0.1437681	0.26924267	2.3752361	20	10 1.9	18.9
220528 2004 EC_{115}	17.2	X	270.09438	131.38494	329.84774	0.51640	0.0496604	0.27908380	2.3190652	20	11 16.7	19.9
220529 2004 FG_{18}	17.1	X	119.12084	273.54585	265.88797	1.25490	0.1541667	0.26332784	2.4106724	20	8 22.7	20.7
220530 2004 FT_{18}	13.5	X	46.10513	90.69580	206.52295	17.21327	0.0670893	0.08310877	5.2004169	20	9 19.7	20.3
220531 2004 FS_{23}	17.1	X	103.13837	63.50541	160.19718	2.49713	0.1296525	0.26665490	2.3905785	20	10 2.8	20.5
220532 2004 FK_{25}	16.9	X	266.29846	255.13071	242.75958	7.41054	0.1324814	0.28252305	2.3002063	20	12 23.9	19.1
220533 2004 FC_{31}	15.4	X	352.24144	26.44820	47.22516	29.13503	0.2073210	0.28744148	2.2738916	20	—	—
220534 2004 FC_{34}	16.3	X	288.83568	274.66087	341.95963	13.09285	0.2444301	0.23965308	2.5669300	20	2 4.3	20.2
220535 2004 FJ_{36}	15.9	X	106.95193	196.00990	41.18052	7.16522	0.0738639	0.26800328	2.3825534	20	10 20.9	19.0
220536 2004 FC_{41}	17.1	X	65.61082	298.69194	302.88317	0.44263	0.1502664	0.26199254	2.4188565	20	9 14.3	20.2
220537 2004 FA_{48}	17.2	X	316.43087	232.20331	246.66492	2.41741	0.0861958	0.28745578	2.2738162	20	—	—
220538 2004 FE_{55}	17.1	X	324.67701	188.36573	113.86130	3.13827	0.2100837	0.25615005	2.4554990	20	5 31.2	19.1
220539 2004 FO_{75}	17.3	X	349.96785	52.31420	322.95127	1.84489	0.1025766	0.27503089	2.3417924	20	11 23.7	19.7
220540 2004 FQ_{80}	16.8	X	100.49886	171.91871	42.10841	2.77170	0.1546534	0.26304328	2.4124107	20	9 19.6	20.2
220541 2004 FX_{110}	17.1	X	193.86178	305.26777	233.06123	1.01154	0.1272374	0.27462963	2.3440730	20	11 7.1	20.1
220542 2004 FL_{118}	16.6	X	240.10274	328.02968	172.61358	4.77941	0.0872354	0.27594438	2.3366214	20	11 22.4	19.4
220543 2004 FF_{124}	17.5	X	235.30675	174.28512	297.01414	0.95731	0.1407210	0.27273058	2.3549417	20	9 25.4	20.6
220544 2004 FB_{135}	17.0	X	343.91390	88.08015	323.85315	1.16110	0.1382185	0.28326855	2.2961688	20	—	—
220545 2004 FE_{142}	16.9	X	149.75801	12.78094	193.18502	2.28040	0.1515555	0.27081295	2.3660455	20	10 27.0	20.6
220546 2004 FE_{148}	16.4	X	44.32183	272.18050	6.66026	6.82724	0.1008375	0.26419628	2.4053868	20	9 29.8	19.1
220547 2004 FP_{158}	16.5	X	18.58228	152.93456	120.56967	3.72731	0.1875708	0.26259140	2.4151775	20	8 25.4	18.7
220548 2004 GW_{5}	16.4	X	164.44244	288.18830	261.72121	6.29257	0.0593009	0.27154956	2.3617648	20	10 22.6	19.7
220549 2004 GH_{8}	16.6	X	1.12433	22.04930	154.94604	3.63581	0.1373249	0.24037292	2.5618028	20	2 13.9	19.1
220550 2004 GP_{14}	16.2	X	163.05992	238.98173	19.78416	10.88719	0.3095362	0.21537564	2.7563752	20	12 26.3	21.5
220551 2004 GX_{20}	16.4	X	174.57462	302.50548	199.89720	5.91870	0.0792212	0.26571828	2.3961928	20	8 30.4	19.7
220552 2004 GD_{38}	16.0	X	251.76238	66.90766	199.39871	12.77895	0.2398950	0.22950265	2.6420696	20	1 10.9	20.8
220553 2004 GM_{39}	16.5	X	114.99263	203.25570	1.30332	2.28783	0.1521960	0.26288481	2.4133800	20	9 20.8	20.0
220554 2004 GW_{59}	16.6	X	207.21090	88.95547	211.72364	11.63535	0.2714023	0.22957966	2.6414787	20	1 17.1	21.6
220555 2004 GG_{82}	13.1	X	175.75316	154.26966	13.55980	8.69374	0.0248877	0.08356874	5.1813167	20	9 16.7	20.1
220556 2004 HN_{3}	16.3	X	273.92122	51.69785	185.81047	7.78766	0.1606966	0.23108475	2.6299967	20	1 3.4	20.4
220557 2004 HZ_{4}	17.1	X	39.60571	157.42307	61.99372	3.15536	0.1320069	0.25300921	2.4757788	20	7 1.1	19.6
220558 2004 HE_{5}	16.8	X	118.18667	72.10663	109.24846	2.32152	0.1084696	0.26060266	2.4274492	20	8 21.8	20.1
220559 2004 HB_{10}	16.3	X	319.94878	16.47713	204.36848	11.84356	0.0671765	0.23768520	2.5810789	20	2 14.9	19.8
220560 2004 HV_{10}	15.8	X	143.89544	251.57675	55.18361	10.05734	0.2613816	0.21882252	2.7273531	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220561 2004 HN_{17}	17.0	X	200.32946	297.73723	214.98645	1.64027	0.1054303	0.27109539	2.3644019	20	10 13.3	20.2
220562 2004 HM_{18}	16.3	X	216.61782	292.01303	349.56451	5.31071	0.2000827	0.22878928	2.6475587	20	1 5.5	20.8
220563 2004 HT_{19}	16.1	X	318.95431	324.29037	38.20695	9.86141	0.0691801	0.26214344	2.4179281	20	9 13.4	18.9
220564 2004 HX_{19}	16.7	X	273.52756	86.41388	174.87342	1.87120	0.1318734	0.23725353	2.5842088	20	2 3.5	20.4
220565 2004 HD_{22}	17.5	X	226.80133	317.39573	174.73290	2.04756	0.1415134	0.27287847	2.3540907	20	10 13.9	20.5
220566 2004 HQ_{26}	17.2	X	264.80406	124.58206	145.18758	4.84770	0.1526142	0.29816899	2.2190192	20	1 26.2	20.3
220567 2004 HJ_{37}	16.3	X	163.28212	192.90324	91.39596	10.77045	0.3361484	0.21734145	2.7397295	20	—	—
220568 2004 HT_{42}	15.8	X	196.82486	278.07540	17.41769	7.82607	0.2902736	0.22486592	2.6782655	20	1 8.8	20.8
220569 2004 HP_{47}	15.8	X	220.91427	191.49363	109.81689	15.73731	0.1021767	0.23376412	2.6098616	20	2 2.9	19.8
220570 2004 HB_{52}	13.0	X	317.97316	8.56215	31.83084	6.86194	0.0593662	0.08511171	5.1185055	20	9 29.4	19.5
220571 2004 HE_{53}	16.1	X	215.85387	285.36815	17.17356	12.67938	0.2719835	0.22914210	2.6448403	20	2 1.2	21.1
220572 2004 HZ_{54}	16.7	X	238.53930	120.51746	174.36977	12.63703	0.2432309	0.23302532	2.6153750	20	2 2.5	21.3
220573 2004 HF_{57}	17.0	X	245.92016	143.24694	161.05411	2.18322	0.0217231	0.23848137	2.5753312	20	3 9.2	20.5
220574 2004 HR_{57}	13.3	X	335.82481	334.03471	49.35906	2.94197	0.1070069	0.08172006	5.2591668	20	9 29.6	19.6
220575 2004 HF_{62}	15.8	X	247.37391	43.34141	243.50532	14.13928	0.1195615	0.23449220	2.6044565	20	2 3.9	20.1
220576 2004 HK_{62}	15.7	X	182.07985	184.99797	100.02619	11.46309	0.1893931	0.22258730	2.6965127	20	—	—
220577 2004 HS_{67}	17.1	X	206.09520	342.02775	158.62370	2.22689	0.1050351	0.27093544	2.3653324	20	10 4.9	20.3
220578 2004 JG	16.2	X	329.30803	190.76064	221.98120	23.45391	0.2151647	0.27323782	2.3520263	20	12 20.7	18.5
220579 2004 JX_{5}	16.0	X	219.05520	113.78132	169.38221	27.77462	0.2357715	0.22777184	2.6554371	20	1 7.9	21.2
220580 2004 JU_{7}	17.0	X	275.32658	260.45266	197.74283	3.91713	0.0935840	0.27320600	2.3522089	20	11 14.7	19.5
220581 2004 JV_{10}	16.6	X	265.59567	72.07676	180.58396	7.77163	0.1725412	0.23168469	2.6254545	20	1 12.1	20.8
220582 2004 JU_{22}	16.8	X	332.84785	340.80731	235.85255	3.80614	0.2110126	0.23845419	2.5755268	20	2 8.5	19.8
220583 2004 JF_{23}	16.6	X	40.83196	253.43292	53.91496	7.20181	0.1055164	0.26383964	2.4075539	20	11 4.7	19.6
220584 2004 JF_{28}	15.4	X	177.09837	278.42344	49.32353	12.69484	0.1957092	0.22592469	2.6698913	20	1 30.6	20.0
220585 2004 JG_{28}	16.7	X	320.59109	17.60776	255.35798	4.52701	0.1835792	0.24320840	2.5418525	20	4 10.8	19.7
220586 2004 JL_{36}	16.4	X	216.98619	161.92305	153.37173	5.34735	0.2052582	0.23093763	2.6311135	20	2 12.6	20.7
220587 2004 JB_{39}	16.0	X	289.59924	94.44536	169.11968	9.07992	0.2200313	0.23563369	2.5960385	20	2 12.4	19.8
220588 2004 KM_{10}	17.0	X	124.72395	331.35734	232.55904	1.66415	0.1583772	0.26243947	2.4161095	20	9 28.9	20.6
220589 2004 KZ_{12}	16.2	X	239.75231	81.28679	200.15073	11.78499	0.1048116	0.22982053	2.6396327	20	1 24.9	20.4
220590 2004 KE_{15}	16.0	X	225.51621	145.21646	157.25989	12.40570	0.1950801	0.23142071	2.6274507	20	2 3.9	20.4
220591 2004 LB_{4}	16.1	X	228.52389	96.86656	168.79002	11.28943	0.1912505	0.22569292	2.6717189	20	—	—
220592 2004 LY_{14}	16.5	X	249.96642	182.38807	141.89713	5.26236	0.1567662	0.23787475	2.5797076	20	3 27.9	20.4
220593 2004 LG_{23}	16.4	X	214.39835	293.50890	5.41060	3.46768	0.2057125	0.22419353	2.6836178	20	1 24.4	20.9
220594 2004 NQ_{4}	16.6	X	171.75566	228.09653	71.12860	4.39939	0.1782926	0.21648634	2.7469392	20	—	—
220595 2004 NR_{4}	15.6	X	165.05020	9.28625	268.89271	8.22413	0.2070182	0.21107219	2.7937146	20	—	—
220596 2004 NK_{6}	16.5	X	191.78546	91.01646	236.18846	3.91636	0.1256009	0.22363769	2.6880626	20	2 4.4	20.7
220597 2004 NP_{15}	15.6	X	172.43474	191.83438	133.98539	13.49654	0.1126872	0.21908655	2.7251615	20	1 16.2	19.8
220598 2004 NG_{17}	16.1	X	134.89483	177.98375	143.64568	9.62722	0.1374193	0.21121182	2.7924832	20	—	—
220599 2004 NY_{18}	17.0	X	136.29047	129.02920	179.13598	3.78395	0.2053100	0.21102439	2.7941365	20	—	—
220600 2004 NB_{23}	16.4	X	159.73528	132.69917	165.73129	8.88941	0.2735496	0.21275424	2.7789703	20	—	—
220601 2004 OP_{1}	16.0	X	157.77755	140.09301	145.19015	8.46082	0.2006535	0.21153377	2.7896491	20	—	—
220602 2004 OE_{8}	16.1	X	143.54941	353.42584	298.56831	7.07111	0.2000101	0.21009210	2.8023964	20	—	—
220603 2004 OX_{9}	16.4	X	132.01607	300.02656	24.43678	4.48027	0.1988965	0.21158815	2.7891711	20	—	—
220604 2004 PA_{1}	16.0	X	151.33881	22.64048	312.41882	3.90381	0.1641239	0.21463014	2.7627542	20	1 12.0	20.1
220605 2004 PB_{6}	16.0	X	140.73972	154.72181	170.60949	9.33746	0.1522835	0.21214367	2.7842998	20	—	—
220606 2004 PH_{6}	16.1	X	108.24025	188.56176	187.95617	5.05837	0.1718692	0.21283486	2.7782684	20	1 15.7	19.9
220607 2004 PY_{6}	15.7	X	146.44341	344.09720	317.08898	8.22483	0.1303285	0.20909941	2.8112589	20	—	—
220608 2004 PQ_{12}	16.2	X	106.84745	227.49294	148.59611	2.96340	0.2402110	0.21151921	2.7897771	20	1 23.9	20.0
220609 2004 PS_{14}	15.7	X	62.66466	9.87019	348.83556	13.29589	0.1860086	0.20117725	2.8845858	20	—	—
220610 2004 PY_{16}	15.7	X	53.82979	209.95919	163.15040	12.86113	0.1706278	0.20188733	2.8778181	20	—	—
220611 2004 PT_{20}	15.8	X	35.33884	223.50061	176.10118	8.29102	0.3251222	0.20011193	2.8948145	20	—	—
220612 2004 PQ_{21}	16.1	X	97.83739	252.87396	134.76643	5.76772	0.1670241	0.21359460	2.7716765	20	1 16.1	19.6
220613 2004 PC_{37}	16.3	X	241.87130	127.18572	158.30114	2.74016	0.1259985	0.22352657	2.6889534	20	2 2.9	20.3
220614 2004 PH_{54}	15.6	X	222.80037	320.36725	316.10316	11.38702	0.0568287	0.21753849	2.7380748	20	1 9.3	19.7
220615 2004 PL_{54}	16.2	X	128.36239	97.13792	231.20627	2.44680	0.1855066	0.20914857	2.8108184	20	—	—
220616 2004 PC_{57}	16.0	X	103.23324	178.97878	183.83015	4.32566	0.0872673	0.21119059	2.7926703	20	—	—
220617 2004 PT_{67}	16.7	X	228.04115	68.15240	199.72734	4.96040	0.1553572	0.21991610	2.7183041	20	—	—
220618 2004 PP_{77}	16.4	X	217.58662	88.62998	159.50399	13.63830	0.1095260	0.21418366	2.7665923	20	—	—
220619 2004 PJ_{78}	15.8	X	124.90693	178.52849	163.81121	10.35329	0.1865493	0.21181025	2.7872210	20	—	—
220620 2004 PA_{79}	15.2	X	52.80196	115.41114	242.65564	5.75738	0.1244195	0.19998208	2.8960674	20	—	—
220621 2004 PH_{83}	15.8	X	157.18203	305.93881	357.61099	9.04925	0.2021821	0.20984963	2.8045547	20	—	—
220622 2004 PH_{91}	14.4	X	332.54261	330.42053	39.99316	24.53327	0.1819402	0.18056412	3.1001432	20	10 5.7	18.1
220623 2004 PT_{93}	15.6	X	158.33393	132.72474	155.30622	14.00399	0.1480202	0.21116100	2.7929312	20	—	—
220624 2004 PY_{96}	15.5	X	134.14400	9.60294	336.71403	8.90332	0.1637907	0.21057995	2.7980665	20	1 10.0	19.8
220625 2004 PS_{97}	15.7	X	182.82940	77.92176	186.88664	8.43738	0.2360841	0.21218612	2.7839284	20	—	—
220626 2004 PT_{100}	16.5	X	88.31101	164.43063	176.67519	5.80924	0.0795832	0.20300992	2.8671993	20	—	—
220627 2004 PK_{102}	15.4	X	82.63183	138.52142	213.53007	5.56186	0.0744809	0.20336460	2.8638646	20	—	—
220628 2004 PK_{104}	16.0	X	285.53853	233.52932	24.52422	12.10232	0.1588698	0.22881600	2.6473526	20	2 16.4	20.0
220629 2004 PE_{105}	16.5	X	200.64079	311.06299	291.07352	3.06253	0.0534717	0.20889495	2.8130930	20	—	—
220630 2004 PQ_{105}	15.4	X	119.48981	72.60666	244.37743	12.09886	0.0759001	0.20551908	2.8438147	20	—	—
220631 2004 QH_{5}	15.5	X	79.70137	272.06193	114.95979	13.07075	0.1420993	0.20867312	2.8150862	20	—	—
220632 2004 QT_{14}	15.5	X	57.58623	160.02681	297.08647	11.35791	0.1673484	0.21548791	2.7554177	20	2 11.2	18.5
220633 2004 QV_{19}	15.5	X	107.89295	134.45626	241.82168	7.64662	0.1668659	0.21174182	2.7878215	20	1 13.8	19.3
220634 2004 QC_{25}	16.0	X	66.11126	27.23785	352.93968	1.48259	0.0843895	0.20346406	2.8629312	20	—	—
220635 2004 QQ_{25}	17.1	X	265.98288	141.07800	1.31429	20.74246	0.0505582	0.38596252	1.8682685	20	—	—
220636 2004 RL_{19}	16.0	X	321.77214	29.91409	8.39152	2.08668	0.0423547	0.19012427	2.9953277	20	10 18.8	19.8
220637 2004 RQ_{21}	16.6	X	213.32580	106.13115	172.30409	5.37777	0.0501721	0.21403743	2.7678522	20	—	—
220638 2004 RM_{31}	16.3	X	50.23861	252.10602	148.31566	7.86791	0.2676975	0.20327621	2.8646947	20	—	—
220639 2004 RT_{40}	15.1	X	28.06165	321.94600	116.92932	16.20420	0.1175379	0.20488429	2.8496855	20	—	—
220640 2004 RY_{40}	16.8	X	51.04724	171.24545	193.19736	1.72157	0.1058754	0.19921723	2.9034752	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220641 2004 RT_{43}	16.3	X	113.80666	9.54429	335.76227	2.88635	0.1019559	0.20806743	2.8205468	20	—	—
220642 2004 RA_{52}	15.3	X	343.04111	228.78490	156.54218	10.49934	0.1026491	0.18985435	2.9981660	20	11 6.6	19.1
220643 2004 RR_{56}	15.6	X	14.51936	161.89626	239.61160	2.25590	0.1120200	0.19851924	2.9102769	20	—	—
220644 2004 RW_{57}	15.9	X	236.49428	59.85384	194.32139	8.84936	0.2493627	0.21786757	2.7353169	20	—	—
220645 2004 RR_{65}	15.7	X	99.15462	191.62414	168.68359	2.06298	0.0925020	0.20591847	2.8401363	20	—	—
220646 2004 RN_{68}	15.8	X	89.81722	323.58141	7.92752	10.00032	0.1204366	0.19975067	2.8983036	20	—	—
220647 2004 RY_{71}	15.8	X	346.78619	267.25780	174.67593	9.68104	0.0723865	0.20049168	2.8911579	20	—	—
220648 2004 RP_{83}	15.4	X	323.54799	28.25934	11.41999	15.44309	0.0763614	0.18578791	3.0417563	20	10 18.6	19.2
220649 2004 RG_{86}	15.9	X	156.78501	157.43522	171.79018	7.62045	0.1699770	0.21457266	2.7632476	20	1 9.7	20.4
220650 2004 RU_{93}	15.6	X	130.32421	99.32931	229.48088	6.17693	0.1271206	0.20872923	2.8145818	20	—	—
220651 2004 RK_{101}	15.1	X	318.02393	44.03680	337.83799	12.33393	0.0969256	0.18469575	3.0537357	20	9 15.9	19.0
220652 2004 RD_{104}	15.4	X	258.95763	203.49467	210.26265	9.38519	0.1817209	0.17648966	3.1476749	20	7 22.3	20.2
220653 2004 RH_{105}	15.5	X	250.24433	119.77681	320.88681	13.50979	0.1278515	0.18026276	3.1035973	20	8 23.6	20.0
220654 2004 RX_{122}	16.0	X	66.69362	51.35758	4.98492	6.72104	0.0944524	0.21064441	2.7974957	20	—	—
220655 2004 RG_{130}	16.4	X	252.57657	328.70734	174.16890	2.06015	0.0571490	0.19622852	2.9328823	20	11 26.8	20.5
220656 2004 RY_{138}	15.2	X	94.46431	82.71928	263.77418	11.33899	0.0885981	0.20429870	2.8551284	20	—	—
220657 2004 RA_{145}	16.0	X	53.47539	328.13803	26.96625	2.08063	0.0508534	0.19915315	2.9040980	20	12 28.0	19.9
220658 2004 RO_{148}	15.7	X	45.46226	244.80847	113.70661	3.45993	0.1055687	0.19574365	2.9377236	20	12 29.1	19.7
220659 2004 RN_{154}	15.4	X	340.35224	58.78066	326.94775	12.31907	0.0957114	0.18933354	3.0036617	20	10 23.9	19.4
220660 2004 RL_{163}	15.0	X	226.96537	106.82021	338.99737	21.20536	0.0991090	0.17396260	3.1780846	20	8 13.1	19.8
220661 2004 RJ_{164}	14.9	X	320.35085	77.04711	300.46326	11.47910	0.0504088	0.18240766	3.0792196	20	9 12.9	19.2
220662 2004 RW_{167}	15.4	X	332.49764	7.47771	8.46298	10.90030	0.1427286	0.18296990	3.0729084	20	10 2.5	18.8
220663 2004 RG_{179}	15.3	X	117.32496	302.40411	265.32332	8.46396	0.0869674	0.18365929	3.0652139	20	9 8.9	20.0
220664 2004 RU_{180}	15.3	X	313.89546	191.00790	233.66546	8.46881	0.0529136	0.19080604	2.9881883	20	11 10.1	19.1
220665 2004 RA_{187}	16.0	X	337.97115	82.71490	302.62033	10.03206	0.1314470	0.18755059	3.0226679	20	10 20.9	19.7
220666 2004 RN_{187}	15.2	X	346.83432	43.22577	322.70904	10.04824	0.2091452	0.18599429	3.0395057	20	10 13.9	18.5
220667 2004 RQ_{192}	14.9	X	50.81318	317.75503	326.81326	10.74515	0.0311884	0.18181332	3.0859265	20	9 18.8	19.2
220668 2004 RY_{197}	15.4	X	46.04513	123.67244	200.15268	9.82908	0.1014402	0.18999949	2.9966389	20	11 16.9	19.6
220669 2004 RT_{198}	15.3	X	7.01349	322.48319	351.45734	9.82468	0.1110720	0.18121019	3.0927702	20	9 8.3	18.9
220670 2004 RF_{200}	15.6	X	348.84075	165.05577	212.77949	18.93605	0.2597087	0.18526733	3.0474517	20	11 15.0	18.5
220671 2004 RK_{201}	15.1	X	281.90178	65.57081	335.74419	13.05851	0.1915220	0.17395152	3.1782196	20	8 7.9	19.4
220672 2004 RR_{201}	15.0	X	303.10040	1.56667	358.83229	8.50737	0.1856633	0.17604470	3.1529766	20	7 17.5	19.0
220673 2004 RQ_{208}	15.1	X	190.63363	348.01662	282.50495	13.71231	0.1386211	0.20912058	2.8110692	20	—	—
220674 2004 RC_{214}	15.5	X	30.84621	71.69440	297.89798	13.60965	0.0940279	0.19263102	2.9692851	20	12 23.0	19.6
220675 2004 RR_{216}	15.1	X	291.71707	49.28378	333.11698	22.21505	0.0325327	0.17800466	3.1297895	20	8 19.9	19.3
220676 2004 RL_{217}	14.8	X	287.93820	183.12720	245.36709	12.61023	0.0411813	0.18504486	3.0498937	20	10 6.3	19.2
220677 2004 RY_{218}	15.0	X	288.07144	42.28046	319.26582	11.65994	0.1437261	0.17285096	3.1916960	20	7 1.9	19.4
220678 2004 RB_{219}	14.9	X	25.91434	8.94727	335.53055	14.38875	0.2268631	0.18858709	3.0115824	20	11 30.2	19.1
220679 2004 RR_{220}	14.9	X	344.21704	335.19755	350.37408	18.04696	0.2172182	0.17811464	3.1285011	20	8 20.5	18.1
220680 2004 RV_{220}	15.1	X	292.74533	86.56013	309.08669	11.45396	0.1748561	0.17699610	3.1416677	20	8 14.9	19.1
220681 2004 RX_{220}	15.8	X	264.63265	66.41387	326.62475	14.12045	0.1798957	0.23470660	2.6028702	20	7 11.1	19.5
220682 2004 RY_{220}	15.4	X	320.63479	43.88917	325.00978	15.52213	0.1242936	0.17735637	3.1374118	20	8 30.4	19.2
220683 2004 RJ_{227}	15.3	X	56.97642	274.88081	334.78288	4.93489	0.1098076	0.17735657	3.1374095	20	8 27.9	19.6
220684 2004 RR_{229}	15.3	X	211.30389	132.34780	5.03777	8.36735	0.0546148	0.18228215	3.0806329	20	9 28.8	19.6
220685 2004 RG_{233}	15.8	X	333.57186	222.29974	141.27726	1.40046	0.0790223	0.18156282	3.0887643	20	9 19.4	19.5
220686 2004 RQ_{246}	15.6	X	318.14335	178.95338	194.12914	12.80284	0.1212294	0.18049794	3.1009009	20	9 1.4	19.5
220687 2004 RZ_{265}	16.1	X	345.47152	348.94202	48.52566	2.71313	0.1064725	0.19210527	2.9747001	20	11 23.4	19.7
220688 2004 RQ_{287}	15.3	X	24.95716	284.35533	19.15783	10.64152	0.1320420	0.18175995	3.0865306	20	9 26.9	19.2
220689 2004 RR_{287}	15.2	X	57.05639	277.41104	22.75662	9.94340	0.0836302	0.18581764	3.0414318	20	10 26.8	19.5
220690 2004 RQ_{290}	15.6	X	65.45138	351.92141	41.18699	13.05377	0.1936584	0.20341476	2.8633937	20	—	—
220691 2004 RY_{290}	16.1	X	343.17709	87.90316	326.07398	4.16169	0.2327575	0.19016201	2.9949314	20	12 21.2	19.0
220692 2004 RK_{292}	16.0	X	40.79650	157.31406	190.39027	11.06452	0.1583407	0.19297430	2.9657627	20	12 17.2	20.3
220693 2004 RN_{309}	15.2	X	273.72125	147.59738	267.87711	7.95917	0.0576868	0.18042450	3.1017423	20	8 29.1	19.6
220694 2004 RS_{309}	15.4	X	130.27717	327.45937	282.26833	7.98526	0.0114253	0.19169700	2.9789222	20	11 13.0	19.7
220695 2004 RY_{313}	15.5	X	312.67179	229.72408	183.69169	9.11682	0.0573872	0.18859964	3.0114488	20	10 26.2	19.5
220696 2004 RA_{316}	15.3	X	19.63959	222.83430	157.67858	9.88228	0.1332754	0.19275774	2.9679836	20	12 26.4	19.4
220697 2004 RC_{320}	14.7	X	36.37543	254.78162	340.48655	12.12872	0.0878941	0.17315083	3.1880100	20	7 10.1	19.0
220698 2004 RF_{322}	14.9	X	49.97089	265.08590	346.82914	25.04668	0.2282217	0.18182069	3.0858431	20	9 9.1	18.8
220699 2004 RL_{322}	15.3	X	263.30814	243.81447	231.19178	7.85794	0.0462334	0.19001881	2.9964359	20	11 5.4	19.5
220700 2004 RH_{323}	15.8	X	341.17398	48.27197	284.17746	7.10388	0.0837097	0.17891603	3.1191520	20	8 17.6	19.9
220701 2004 RX_{324}	15.2	X	26.39529	118.95001	234.61824	10.53373	0.1024103	0.18992987	2.9973713	20	11 27.3	19.0
220702 2004 RH_{325}	15.1	X	7.62925	350.67810	15.54750	10.19008	0.1400393	0.18531841	3.0468916	20	11 17.0	18.9
220703 2004 RJ_{325}	17.5	X	37.40176	19.78041	17.53956	20.45104	0.0969041	0.38454258	1.8728648	20	—	—
220704 2004 RK_{325}	14.9	X	326.06774	318.58620	30.08091	15.59965	0.2711599	0.17647122	3.1478942	20	8 8.2	18.3
220705 2004 RU_{325}	15.1	X	355.68331	318.35726	3.26566	13.68414	0.1794135	0.17817965	3.1277400	20	9 5.8	18.5
220706 2004 RM_{337}	15.4	X	309.43201	173.69795	196.90783	9.96358	0.0869886	0.17812649	3.1283623	20	8 18.2	19.7
220707 2004 RC_{345}	16.4	X	125.46048	93.83103	199.07253	1.56107	0.0364355	0.20097124	2.8865568	20	—	—
220708 2004 RL_{345}	15.3	X	189.26806	196.21416	338.51038	8.12192	0.0196223	0.18792051	3.0186998	20	10 19.8	19.7
220709 2004 SB_{3}	16.1	X	35.64313	92.48376	278.72744	0.96079	0.0943425	0.19880218	2.9075150	20	12 31.9	20.0
220710 2004 SK_{8}	15.8	X	349.94242	262.95996	137.92158	3.91569	0.1097406	0.19268405	2.9687403	20	12 6.0	19.5
220711 2004 SJ_{12}	15.7	X	188.66576	301.10234	78.12888	14.29225	0.2082748	0.22391308	2.6858582	20	4 13.4	20.5
220712 2004 SL_{14}	15.1	X	1.93396	253.25153	138.75450	11.17901	0.1285459	0.19229276	2.9727662	20	12 15.6	18.9
220713 2004 SS_{17}	15.7	X	0.01155	261.93177	85.18422	10.36548	0.1565606	0.18620592	3.0372023	20	10 20.5	19.3
220714 2004 SR_{19}	15.9	X	351.82261	75.89668	319.11004	5.46725	0.0996376	0.19073091	2.9889730	20	11 28.4	19.6
220715 2004 ST_{19}	14.6	X	83.42745	221.83046	4.62391	26.78812	0.0458186	0.17640521	3.1486794	20	9 2.9	19.3
220716 2004 SX_{25}	15.6	X	315.70090	241.36528	204.15152	11.63731	0.1059105	0.18962980	3.0005325	20	12 7.7	19.4
220717 2004 SX_{26}	16.9	X	357.87359	254.00502	84.68995	22.42752	0.1621604	0.37043158	1.9201303	20	11 26.5	18.6
220718 2004 SX_{30}	15.5	X	358.68253	7.24708	8.72907	10.13365	0.1015888	0.18909398	3.0061979	20	11 12.2	19.4
220719 2004 SV_{38}	15.3	X	300.17378	351.52571	20.58646	5.04535	0.1224757	0.17714248	3.1399368	20	8 6.5	19.4
220720 2004 SA_{39}	15.4	X	357.66360	331.95926	22.17735	5.97183	0.1101942	0.18509209	3.0493749	20	10 16.2	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220721 2004 SL_{39}	15.5	X	4.76539	221.75335	181.30649	11.39828	0.1283994	0.19276918	2.9678662	20	12 31.9	19.4
220722 2004 SZ_{39}	15.2	X	327.08940	181.17107	198.94605	13.54191	0.1978256	0.18180690	3.0859991	20	9 23.8	18.5
220723 2004 SP_{45}	15.2	X	56.52141	37.51172	334.16559	11.40894	0.0685655	0.19689756	2.9262347	20	—	—
220724 2004 SL_{47}	15.3	X	51.43225	339.81104	333.65827	9.64899	0.1013598	0.18800593	3.0177854	20	11 5.4	19.7
220725 2004 SQ_{49}	15.2	X	305.11989	71.01425	318.50466	10.36168	0.0906385	0.17893977	3.1188761	20	9 5.2	19.3
220726 2004 SV_{50}	16.1	X	38.70841	125.94104	191.47601	10.12808	0.1584594	0.18735673	3.0247525	20	11 7.7	20.2
220727 2004 SN_{51}	15.4	X	335.18611	345.97223	1.84587	9.77194	0.1092132	0.18082278	3.0971860	20	9 2.3	19.1
220728 2004 SA_{52}	15.1	X	272.91080	257.46192	195.18486	10.45143	0.2050820	0.18099212	3.0952538	20	9 25.8	19.3
220729 2004 SM_{54}	15.1	X	350.13099	277.58033	48.43495	16.14643	0.2581270	0.17989288	3.1078502	20	9 11.0	18.3
220730 2004 SO_{58}	15.2	X	325.99022	10.63272	6.77631	9.73101	0.1795000	0.18167393	3.0875048	20	9 21.6	18.4
220731 2004 SM_{59}	14.9	X	302.99079	77.87822	322.54655	8.57018	0.0702001	0.18079080	3.0975513	20	9 18.5	19.0
220732 2004 TV	14.9	X	334.02477	279.47658	15.09054	7.32617	0.1471940	0.17266742	3.1939574	20	6 12.9	18.7
220733 2004 TS_{11}	15.9	X	314.68454	61.07615	12.37543	2.03017	0.0774920	0.19005797	2.9960242	20	11 20.9	19.6
220734 2004 TM_{15}	15.1	X	295.07237	327.69077	42.29542	15.88440	0.2783260	0.17430152	3.1739635	20	6 30.1	19.4
220735 2004 TO_{15}	15.6	X	262.91350	66.06023	16.17476	6.48537	0.0904119	0.17858169	3.1230440	20	9 18.5	19.8
220736 Niihama	15.0	X	337.15663	236.43566	84.58693	25.29205	0.2419815	0.17514110	3.1638120	20	7 20.3	18.4
220737 2004 TJ_{17}	15.9	X	217.27706	117.16064	38.11780	2.61378	0.0348112	0.18939788	3.0029813	20	10 31.3	20.1
220738 2004 TH_{19}	15.2	X	258.29737	259.18455	151.04422	26.58690	0.1930506	0.17159024	3.2073104	20	7 18.0	20.3
220739 2004 TU_{19}	15.8	X	293.38861	281.30774	121.76153	4.66246	0.2115066	0.17927941	3.1149359	20	8 23.1	19.6
220740 2004 TJ_{21}	15.8	X	88.50235	280.46515	50.58092	8.53166	0.2178012	0.19988379	2.8970167	20	—	—
220741 2004 TD_{24}	15.9	X	163.14977	12.00945	253.13619	1.84035	0.1068065	0.20087261	2.8875016	20	—	—
220742 2004 TO_{28}	16.0	X	124.53847	134.06001	171.25006	2.69888	0.1173145	0.20086101	2.8876128	20	—	—
220743 2004 TO_{33}	16.0	X	225.37993	196.09723	281.70698	1.88346	0.0403181	0.18149721	3.0895087	20	9 21.7	20.4
220744 2004 TW_{41}	15.4	X	233.63103	91.12186	17.05732	10.92604	0.0253068	0.18006480	3.1058716	20	9 24.6	19.8
220745 2004 TO_{60}	15.2	X	41.89992	317.26657	10.30104	11.61757	0.0425892	0.18942820	3.0026609	20	11 3.4	19.5
220746 2004 TY_{60}	16.2	X	345.19843	275.31042	118.79915	2.46196	0.1346050	0.18888560	3.0084085	20	11 20.4	19.6
220747 2004 TL_{65}	15.4	X	282.16350	331.39334	71.52547	11.80290	0.2219660	0.17673620	3.1447469	20	8 6.6	19.8
220748 2004 TG_{68}	14.9	X	0.52877	270.65386	52.51185	16.47618	0.2049186	0.18174614	3.0866869	20	9 26.8	18.5
220749 2004 TO_{69}	15.5	X	300.68502	244.27825	168.80172	10.61843	0.1055735	0.18434535	3.0576042	20	10 3.1	19.3
220750 2004 TT_{69}	15.3	X	266.06501	179.50211	186.99689	11.70412	0.0676518	0.17092005	3.2156890	20	6 19.2	20.1
220751 2004 TH_{72}	16.7	X	352.98910	172.17818	184.91022	2.29773	0.1917867	0.18495989	3.0508277	20	10 18.8	19.7
220752 2004 TG_{76}	16.6	X	277.00846	238.24238	259.72710	1.41118	0.1115918	0.19302008	2.9652937	20	12 15.1	20.4
220753 2004 TQ_{79}	15.0	X	289.31242	132.69358	299.83269	7.93160	0.1433094	0.18230534	3.0803717	20	9 29.8	19.0
220754 2004 TV_{85}	16.0	X	32.92245	130.73037	191.52406	6.76712	0.1067027	0.18729651	3.0254008	20	10 28.9	19.9
220755 2004 TZ_{88}	15.5	X	126.91976	47.22746	179.27418	6.93521	0.0176094	0.18557607	3.0440707	20	10 13.5	19.8
220756 2004 TQ_{94}	15.9	X	278.39110	207.48373	216.34815	1.27005	0.1235002	0.18035670	3.1025195	20	9 9.1	19.9
220757 2004 TH_{101}	16.3	X	70.84032	192.52676	77.46836	2.20888	0.0638572	0.18274751	3.0754009	20	10 5.3	20.6
220758 2004 TV_{101}	16.1	X	354.91744	303.46904	78.73315	1.01269	0.0810654	0.18694684	3.0291722	20	11 15.5	20.0
220759 2004 TG_{105}	16.0	X	305.15249	83.60890	9.11593	11.14508	0.0761692	0.19153997	2.9805502	20	11 29.5	19.9
220760 2004 TO_{105}	16.3	X	315.85592	261.73064	207.05587	1.43411	0.0467103	0.19674058	2.9277911	20	—	—
220761 2004 TR_{109}	15.7	X	3.36871	262.00536	93.93293	3.86294	0.1784470	0.18572672	3.0424244	20	11 5.5	19.2
220762 2004 TN_{116}	15.1	X	1.23806	359.34773	337.48589	9.14842	0.0850702	0.18206739	3.0830550	20	9 24.2	19.1
220763 2004 TQ_{117}	15.8	X	91.83430	359.09346	74.36734	2.95679	0.0498997	0.21430627	2.7655370	20	2 19.6	19.5
220764 2004 TK_{118}	15.1	X	198.86130	192.15188	280.30555	9.18772	0.0673560	0.17819879	3.1275161	20	8 10.5	19.8
220765 2004 TA_{120}	15.7	X	329.20731	141.59283	333.78915	8.17538	0.1481103	0.19820979	2.9133052	20	—	—
220766 2004 TN_{121}	15.7	X	295.99838	151.94343	253.32016	2.79289	0.0078008	0.18260394	3.0770127	20	9 23.5	20.0
220767 2004 TW_{122}	15.9	X	345.97273	261.99385	123.94290	3.35352	0.1000606	0.18812105	3.0165541	20	11 9.4	19.5
220768 2004 TK_{126}	15.4	X	346.99939	184.40957	163.36828	9.90804	0.0968593	0.18283258	3.0744469	20	9 20.7	19.1
220769 2004 TP_{128}	15.7	X	100.64750	5.93302	53.89191	3.44301	0.0343151	0.21369373	2.7708192	20	2 11.7	19.4
220770 2004 TU_{129}	16.1	X	19.30684	134.44972	177.73289	12.02129	0.2102631	0.18547226	3.0452065	20	10 10.5	19.6
220771 2004 TK_{130}	15.7	X	19.43950	139.78847	180.79123	9.94232	0.0582288	0.18380194	3.0636277	20	9 30.7	19.6
220772 2004 TJ_{131}	15.3	X	285.73188	16.98456	82.34111	4.47527	0.1708068	0.18475873	3.0530417	20	10 31.6	19.0
220773 2004 TZ_{132}	17.1	X	344.51991	202.34406	218.45034	20.97923	0.0991941	0.37890237	1.8914049	20	—	—
220774 2004 TB_{135}	15.9	X	310.69527	280.84932	157.29006	3.79464	0.1478680	0.19024269	2.9940846	20	11 18.7	19.2
220775 2004 TA_{137}	15.3	X	339.37580	9.73149	354.33189	11.94881	0.0738411	0.18109560	3.0940746	20	9 26.9	19.3
220776 2004 TB_{137}	14.9	X	21.02979	64.42855	265.33529	9.95561	0.0768416	0.18307805	3.0716981	20	10 11.8	19.1
220777 2004 TU_{137}	14.7	X	250.50849	187.88413	235.12353	8.35158	0.0578697	0.17452905	3.1712043	20	8 8.9	19.4
220778 2004 TY_{138}	15.5	X	237.92201	166.69667	295.21031	8.88784	0.0279861	0.18345402	3.0675000	20	9 15.4	20.0
220779 2004 TL_{139}	15.1	X	198.06077	193.92093	270.97228	6.02943	0.1105817	0.17365768	3.1818037	20	7 29.8	20.2
220780 2004 TR_{139}	17.2	X	253.95976	240.93197	225.37829	20.26165	0.0721597	0.37022945	1.9208292	20	11 21.3	18.6
220781 2004 TD_{144}	16.0	X	341.97375	139.68607	202.42788	18.71698	0.2696620	0.18074424	3.0980832	20	8 28.2	19.2
220782 2004 TB_{149}	15.7	X	64.36601	27.46057	252.12481	2.33689	0.0240298	0.18321988	3.0701127	20	10 1.5	20.0
220783 2004 TT_{167}	16.2	X	158.82361	327.97925	242.34572	1.04703	0.0150823	0.18937282	3.0032463	20	10 31.0	20.4
220784 2004 TC_{168}	15.6	X	346.52652	237.17553	160.09244	7.24946	0.1224281	0.18931752	3.0038311	20	11 26.9	19.3
220785 2004 TV_{168}	15.8	X	38.57402	223.71315	137.81105	2.89268	0.1171088	0.19272136	2.9683571	20	12 25.3	19.9
220786 2004 TM_{172}	15.3	X	317.44593	68.74520	307.77999	9.24209	0.0896242	0.17896093	3.1186304	20	9 6.4	19.4
220787 2004 TU_{173}	14.6	X	310.89383	30.70909	28.62378	21.83335	0.1616530	0.18126717	3.0921219	20	10 20.7	18.0
220788 2004 TA_{174}	16.1	X	345.37837	122.03608	288.29811	1.20370	0.1352090	0.19289552	2.9665702	20	12 12.4	19.5
220789 2004 TD_{175}	15.6	X	21.42696	297.27188	2.99114	4.62174	0.1455019	0.18129681	3.0917849	20	9 17.1	19.4
220790 2004 TJ_{175}	15.6	X	343.43436	19.25271	36.46024	10.51844	0.0971559	0.19047230	2.9916779	20	12 11.4	19.4
220791 2004 TE_{179}	16.0	X	345.37244	171.51955	184.93606	10.37883	0.1128834	0.18453350	3.0555255	20	9 29.3	19.4
220792 2004 TY_{179}	16.0	X	5.05561	278.34605	167.28626	2.19366	0.0374389	0.20289643	2.8682683	20	—	—
220793 2004 TN_{196}	15.9	X	25.38462	113.89807	240.98873	1.79076	0.1991234	0.18952833	3.0016033	20	12 11.2	19.7
220794 2004 TE_{197}	15.9	X	306.05198	224.23102	207.69272	3.60839	0.0638370	0.18668588	3.0319944	20	11 7.2	19.6
220795 2004 TV_{198}	16.0	X	270.83858	348.02196	179.12546	1.97291	0.0542460	0.19705512	2.9246747	20	—	—
220796 2004 TC_{213}	15.3	X	334.49696	155.51167	214.36034	17.24241	0.1604711	0.18075525	3.0979574	20	9 23.6	19.0
220797 2004 TD_{216}	15.9	X	326.88925	276.15918	124.43842	5.42823	0.1833238	0.18543301	3.0456361	20	10 27.9	19.2
220798 2004 TF_{220}	15.1	X	87.46459	331.42011	98.20331	9.30693	0.2069887	0.21093369	2.7949374	20	3 6.4	18.8
220799 2004 TF_{222}	15.6	X	350.76123	252.23382	120.08292	12.01027	0.2223369	0.18536041	3.0464313	20	11 11.8	18.9
220800 2004 TU_{222}	15.6	X	208.52024	261.76075	194.09974	4.60041	0.0891358	0.17252780	3.1956803	20	7 30.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220801 2004 TD_{223}	14.9	X	337.99317	251.21830	117.66554	14.27408	0.1361497	0.18057969	3.0999649	20	10 9.7	18.8
220802 2004 TL_{230}	16.3	X	19.97026	226.59455	172.15976	1.92770	0.0934075	0.19502910	2.9448947	20	—	—
220803 2004 TR_{231}	15.7	X	26.72891	49.29126	239.72600	4.54375	0.1261381	0.17824626	3.1269608	20	9 4.9	19.7
220804 2004 TO_{241}	15.1	X	274.16885	114.46017	313.32312	7.55232	0.0654880	0.18069842	3.0986069	20	9 14.4	19.4
220805 2004 TY_{241}	15.2	X	316.81731	146.80344	259.84315	8.90458	0.1033072	0.18378484	3.0638177	20	10 15.0	19.2
220806 2004 TA_{242}	15.6	X	22.61661	5.77766	346.71259	7.81828	0.2346426	0.18700706	3.0285219	20	12 8.0	19.5
220807 2004 TM_{243}	15.7	X	352.73018	18.53496	9.48312	1.91321	0.1670259	0.18725107	3.0258903	20	11 26.5	19.2
220808 2004 TC_{247}	15.3	X	323.09812	287.23260	96.93077	10.03254	0.1230368	0.18222186	3.0813124	20	10 3.5	19.1
220809 2004 TE_{247}	15.1	X	310.07476	254.99231	128.17299	10.54792	0.0940177	0.17946012	3.1128444	20	9 10.1	19.1
220810 2004 TU_{247}	15.0	X	335.16359	181.22217	178.93932	23.99790	0.1617836	0.17982672	3.1086124	20	9 14.1	18.5
220811 2004 TZ_{249}	14.9	X	68.70895	193.47604	28.48875	4.55453	0.0881178	0.17090271	3.2159065	20	8 5.8	19.4
220812 2004 TQ_{250}	15.8	X	341.82478	64.54032	343.07383	9.65098	0.2039783	0.18727179	3.0256671	20	12 4.1	19.2
220813 2004 TR_{251}	15.9	X	5.09596	68.92519	301.90119	1.89665	0.0930813	0.18908016	3.0063445	20	11 16.9	19.8
220814 2004 TL_{261}	16.0	X	92.44802	129.78623	169.00197	2.71542	0.0560922	0.19137169	2.9822972	20	12 4.2	20.4
220815 2004 TZ_{273}	15.1	X	244.82029	153.28627	331.02474	1.69312	0.1469699	0.18123342	3.0925058	20	10 8.9	19.4
220816 2004 TW_{280}	16.1	X	266.35527	278.51239	223.22470	1.48595	0.0358127	0.18939946	3.0029647	20	12 13.7	20.2
220817 2004 TX_{294}	15.8	X	52.55743	352.73232	352.87245	2.53035	0.2087959	0.19126397	2.9834169	20	—	—
220818 2004 TB_{302}	14.9	X	146.07427	6.46325	239.23423	13.54836	0.1702450	0.19562255	2.9389359	20	11 29.1	19.7
220819 2004 TD_{303}	15.0	X	303.62915	15.24688	24.46236	11.00593	0.0630105	0.18028825	3.1033048	20	9 25.3	19.1
220820 2004 TH_{303}	15.8	X	327.15710	282.30171	130.47328	1.55814	0.0544979	0.18544780	3.0454742	20	11 13.1	19.8
220821 2004 TE_{310}	15.2	X	42.23715	302.14558	345.11976	11.88925	0.0108750	0.17922390	3.1155790	20	9 11.2	19.5
220822 2004 TU_{310}	15.0	X	326.17559	320.96376	33.25305	29.14587	0.1939655	0.17546371	3.1599328	20	9 6.9	19.1
220823 2004 TY_{310}	15.4	X	12.70338	35.82015	327.71392	9.32810	0.1221144	0.18591468	3.0403734	20	11 19.2	19.4
220824 2004 TE_{311}	15.3	X	326.13280	49.01730	331.73495	9.20546	0.0735182	0.18218474	3.0817310	20	9 26.9	19.4
220825 2004 TX_{312}	15.8	X	113.07140	210.96060	35.54937	3.02956	0.1257323	0.18999721	2.9966629	20	10 29.5	20.3
220826 2004 TO_{325}	15.2	X	298.90211	261.07874	139.68976	18.09814	0.2500532	0.17873430	3.1212660	20	8 22.8	18.8
220827 2004 TS_{336}	15.6	X	35.51208	232.26145	91.43884	1.78255	0.2007100	0.18485668	3.0519631	20	11 15.7	19.7
220828 2004 TG_{339}	15.8	X	16.86525	329.40596	10.27017	3.14543	0.1206299	0.18526335	3.0474953	20	10 27.9	19.7
220829 2004 TS_{346}	15.4	X	61.64524	347.46501	5.82563	9.05258	0.0795567	0.19419503	2.9533209	20	—	—
220830 2004 TY_{347}	16.7	X	218.35016	48.68538	202.03012	0.55884	0.0239030	0.21097384	2.7945828	20	—	—
220831 2004 TE_{360}	15.1	X	203.02831	146.74334	336.23927	13.67154	0.0947768	0.17901122	3.1180462	20	8 29.1	19.6
220832 2004 TJ_{360}	15.1	X	346.61391	105.68269	241.74143	8.43147	0.0103461	0.18026437	3.1035788	20	9 12.4	19.6
220833 2004 TX_{361}	14.8	X	299.63867	281.43469	113.19176	16.99925	0.0823797	0.17789672	3.1310554	20	9 13.6	19.1
220834 2004 TQ_{366}	15.4	X	321.32995	184.70354	188.12178	10.97054	0.2087448	0.17643328	3.1483454	20	8 29.6	18.8
220835 2004 UP_{4}	15.2	X	241.60650	111.55460	1.99033	25.99736	0.2610326	0.17724496	3.1387264	20	9 13.9	20.2
220836 2004 UE_{7}	16.2	X	6.49109	40.36144	311.84228	3.44193	0.2759894	0.18637829	3.0353295	20	11 17.7	19.4
220837 2004 UA_{9}	15.2	X	286.45104	84.18049	312.70254	16.65522	0.1822699	0.17558793	3.1584422	20	8 7.2	19.4
220838 2004 UD_{9}	14.6	X	287.89231	161.92244	289.24891	16.09194	0.1638893	0.18418389	3.0593908	20	10 15.8	18.9
220839 2004 VA	17.3	X	299.51959	43.13437	109.63633	3.69808	0.5963412	0.37607752	1.9008644	20	—	—
220840 2004 VQ	15.4	X	293.18626	81.63012	326.91312	4.33736	0.1544908	0.18029213	3.1032602	20	9 6.1	19.4
220841 2004 VB_{2}	15.5	X	1.21998	43.75917	328.97182	5.80429	0.2115075	0.18647076	3.0343259	20	11 25.5	19.0
220842 2004 VD_{2}	15.1	X	297.36610	278.85130	130.66754	1.99984	0.1799941	0.17864718	3.1222807	20	9 11.6	18.8
220843 2004 VE_{3}	15.7	X	14.33634	107.56951	216.13081	9.40098	0.2826855	0.18314168	3.0709866	20	10 26.1	19.1
220844 2004 VY_{5}	15.4	X	299.53365	314.67736	144.95909	2.20117	0.1955639	0.18642774	3.0347927	20	11 20.9	18.6
220845 2004 VP_{6}	15.7	X	247.15713	321.25347	108.89337	2.56087	0.1437668	0.17244575	3.1966939	20	8 6.0	20.4
220846 2004 VD_{8}	15.7	X	228.07902	7.20461	94.99597	4.13697	0.1824161	0.17490038	3.1667143	20	8 22.4	20.6
220847 2004 VE_{14}	15.1	X	323.89417	148.59065	264.52535	3.75152	0.1445136	0.18366655	3.0651331	20	11 5.1	18.7
220848 2004 VK_{26}	15.1	X	304.14807	130.09672	251.76534	9.26071	0.0894434	0.17627307	3.1502528	20	8 22.8	19.4
220849 2004 VZ_{28}	15.8	X	50.09062	279.99861	74.72075	2.53020	0.1078387	0.19111806	2.9849351	20	12 29.2	19.9
220850 2004 VB_{47}	15.1	X	24.17021	141.46111	211.13206	8.42211	0.1375319	0.18519548	3.0482398	20	11 27.3	19.0
220851 2004 VC_{61}	15.7	X	318.02795	259.14244	173.09647	15.10330	0.2216228	0.18616169	3.0376834	20	11 21.4	19.0
220852 2004 VK_{61}	15.1	X	323.49011	293.59602	116.09621	11.98991	0.1051681	0.18498879	3.0505099	20	11 7.4	19.0
220853 2004 VN_{61}	15.3	X	330.96173	235.26791	121.00793	13.39172	0.1586436	0.17771809	3.1331532	20	9 4.9	18.9
220854 2004 VP_{61}	15.1	X	329.38510	196.41836	182.35053	16.52243	0.0764954	0.18012449	3.1051854	20	10 2.9	19.0
220855 2004 VS_{61}	15.1	X	0.63958	228.21372	149.71933	14.18683	0.1312973	0.18550136	3.0448880	20	11 26.4	19.1
220856 2004 VK_{62}	15.0	X	14.46793	256.31113	111.96290	13.93966	0.1845048	0.18719903	3.0264511	20	12 11.2	18.8
220857 2004 VY_{70}	16.3	X	315.18322	33.98627	0.08351	1.14583	0.2436127	0.17962143	3.1109805	20	9 14.9	19.5
220858 2004 VT_{72}	15.8	X	281.22542	341.38021	102.55139	0.38905	0.1375741	0.18061070	3.0996101	20	10 7.6	19.9
220859 2004 VQ_{76}	14.6	X	346.10645	256.69459	55.62256	26.74242	0.2404956	0.17562553	3.1579915	20	8 8.8	18.3
220860 2004 VP_{78}	16.9	X	98.55405	197.34016	106.49858	24.84148	0.0823800	0.37935926	1.8898859	20	—	—
220861 2004 VV_{86}	15.4	X	235.09482	94.26777	9.05774	7.12189	0.1349073	0.17615689	3.1516377	20	9 5.7	20.1
220862 2004 VQ_{90}	15.8	X	296.63109	300.29473	110.16549	3.24714	0.1569777	0.17802983	3.1294945	20	9 15.7	19.7
220863 2004 VX_{90}	15.1	X	21.90826	56.17116	218.26323	9.74408	0.0279706	0.17068721	3.2186128	20	7 28.5	19.7
220864 2004 VV_{95}	15.3	X	250.61365	57.93873	20.62640	9.36701	0.0890203	0.17528276	3.1621071	20	8 31.7	19.9
220865 2004 VR_{96}	16.3	X	350.78149	38.83701	330.71264	0.64317	0.0467100	0.18180415	3.0860303	20	10 20.9	20.3
220866 2004 WB_{6}	15.3	X	273.55603	14.64080	26.75939	9.38704	0.0746914	0.17313955	3.1881484	20	8 15.9	19.8
220867 2004 WF_{10}	15.8	X	225.10761	160.34276	303.18618	3.95176	0.1226213	0.17213039	3.2005972	20	8 24.3	20.7
220868 2004 WH_{11}	14.7	X	303.75986	260.64168	96.79319	17.22426	0.1641064	0.17143942	3.2091912	20	7 15.3	18.7
220869 2004 WR_{11}	15.7	X	60.08992	293.53774	16.00440	1.75104	0.0509887	0.18267798	3.0761812	20	11 6.6	20.1
220870 2004 XY_{5}	15.1	X	262.28059	294.72784	169.94975	12.59454	0.1670705	0.17937498	3.1138293	20	10 5.1	19.4
220871 2004 XX_{14}	15.6	X	331.56556	327.99061	49.35944	2.30842	0.1800392	0.17813985	3.1282059	20	10 1.7	18.8
220872 2004 XE_{15}	15.2	X	319.84346	286.90208	100.12221	4.36417	0.1262878	0.17698196	3.1418351	20	9 27.2	19.0
220873 2004 XK_{16}	17.1	X	314.96452	58.33655	31.03833	20.30053	0.0839465	0.37708188	1.8974876	20	—	—
220874 2004 XT_{21}	15.8	X	317.78378	284.99863	146.86195	1.85919	0.0984809	0.18337368	3.0683958	20	11 22.0	19.5
220875 2004 XZ_{22}	15.6	X	37.27482	11.39255	53.19767	2.72298	0.0694930	0.19521607	2.9430141	20	—	—
220876 2004 XE_{23}	15.0	X	276.12977	171.87905	274.22852	16.46324	0.1825151	0.17692922	3.1424593	20	9 16.1	19.6
220877 2004 XL_{28}	15.3	X	305.25191	302.67303	72.53398	14.96927	0.2926180	0.17294003	3.1906001	20	7 23.3	19.2
220878 2004 XJ_{40}	17.1	X	244.28782	206.83536	294.63784	17.50433	0.0734287	0.37276290	1.9121161	20	—	—
220879 2004 XJ_{64}	15.1	X	271.55213	28.50989	35.52978	17.75065	0.1996422	0.17587118	3.1550501	20	8 29.4	19.8
220880 2004 XQ_{64}	15.5	X	258.12173	145.49608	314.96137	3.94882	0.1163495	0.17618629	3.1512872	20	9 27.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220881 2004 XZ_{64}	15.2	X	30.61086	346.36881	66.37494	5.28784	0.1188267	0.19329380	2.9624937	20	—	—
220882 2004 XW_{65}	15.3	X	193.55022	210.60596	271.44856	6.04205	0.0533719	0.17037238	3.2225767	20	8 17.1	20.2
220883 2004 XY_{71}	17.0	X	201.91465	167.36386	294.70049	17.53102	0.0789961	0.35430479	1.9779624	20	8 12.3	19.4
220884 2004 XM_{84}	15.6	X	242.30008	318.35794	128.47671	1.58036	0.1496447	0.17235883	3.1977685	20	8 20.4	20.2
220885 2004 XP_{89}	15.2	X	263.15772	10.63767	37.69231	11.70399	0.1234027	0.17036272	3.2226985	20	8 4.1	20.0
220886 2004 XE_{103}	14.5	X	4.46417	301.13064	72.94632	17.74921	0.2040864	0.18014547	3.1049443	20	12 1.8	18.0
220887 2004 XR_{107}	16.2	X	277.11088	100.86661	328.79470	6.20848	0.2716500	0.17595650	3.1540301	20	8 23.1	20.4
220888 2004 XD_{112}	15.8	X	306.39458	72.82776	284.43497	3.68888	0.1789283	0.17055141	3.2203210	20	7 16.8	19.8
220889 2004 XG_{124}	14.7	X	316.65533	25.81237	44.90301	24.57940	0.1648768	0.18134827	3.0912000	20	11 12.8	18.2
220890 2004 XL_{129}	15.4	X	250.69854	291.59664	144.32060	9.46587	0.1839108	0.17228796	3.1986454	20	8 11.4	20.1
220891 2004 XF_{134}	15.0	X	256.78427	98.46408	38.09614	6.56533	0.1005827	0.18325498	3.0697207	20	11 14.3	19.3
220892 2004 XR_{145}	15.1	X	279.52335	350.93411	96.02088	11.73364	0.1764253	0.17998123	3.1068330	20	10 9.4	19.3
220893 2004 XX_{165}	15.1	X	221.87065	52.56581	33.62684	11.15718	0.0516386	0.17007413	3.2263431	20	8 12.3	20.0
220894 2004 XM_{182}	14.7	X	298.40440	256.30644	112.72852	18.97379	0.2043223	0.17142829	3.2093301	20	7 16.0	18.7
220895 2004 YB_{1}	15.3	X	314.93450	51.54902	32.36653	22.50453	0.2746352	0.18118745	3.0930289	20	11 15.9	18.4
220896 2004 YS_{1}	17.1	X	49.27312	260.43242	101.69810	24.08294	0.1607925	0.37954874	1.8892569	20	—	—
220897 2004 YL_{3}	15.2	X	329.65788	124.10246	233.51500	25.64387	0.2369918	0.17626380	3.1503632	20	8 13.3	19.1
220898 2004 YT_{5}	14.9	X	263.75434	78.08476	8.28953	24.41169	0.3204154	0.17309325	3.1887169	20	8 31.9	19.9
220899 2004 YU_{9}	15.8	X	260.30333	350.79554	134.39308	2.02860	0.1334933	0.18224184	3.0810872	20	11 1.4	19.9
220900 2004 YN_{10}	15.8	X	46.29801	0.16138	71.40544	2.77924	0.0153508	0.20037940	2.8922378	20	—	—
220901 2004 YX_{12}	15.7	X	232.12825	2.28989	102.90459	4.91698	0.1367535	0.16938231	3.2351222	20	9 3.9	20.6
220902 2004 YH_{33}	15.8	X	328.38792	244.17951	154.66646	6.13772	0.2889903	0.18298789	3.0727070	20	10 24.8	18.3
220903 2005 AD_{2}	15.0	X	332.47432	47.08020	1.53940	9.04634	0.1845746	0.18069493	3.0986467	20	11 11.9	18.4
220904 2005 AJ_{22}	15.5	X	291.38907	83.93788	315.19968	8.83290	0.2564304	0.17315218	3.1879933	20	8 5.9	19.6
220905 2005 AZ_{30}	14.3	X	287.04749	313.20322	106.55679	26.55763	0.1373246	0.17395638	3.1781604	20	9 25.1	19.0
220906 2005 BC_{7}	17.8	X	101.45506	71.97760	130.86269	3.44136	0.1657784	0.34982265	1.9948218	20	9 16.5	20.5
220907 2005 CB_{59}	15.1	X	308.38579	196.58077	272.80386	6.83769	0.0334177	0.17800840	3.1297457	20	12 25.5	19.4
220908 2005 CL_{59}	14.3	X	197.51783	138.08407	301.26267	14.73753	0.2036916	0.15585655	3.4196843	20	6 26.5	20.1
220909 2005 EO_{1}	18.2	X	253.30662	40.87756	231.18168	13.87214	0.7050805	0.24395767	2.5366453	20	—	—
220910 2005 EK_{131}	14.2	X	284.99718	170.75906	42.44236	11.70068	0.1556376	0.12427956	3.9768227	20	1 4.2	20.1
220911 2005 EY_{139}	16.3	X	69.74648	196.95347	84.75153	8.93369	0.2949535	0.28410467	2.2916615	20	11 29.5	20.0
220912 2005 EN_{142}	17.7	X	256.55620	127.33173	114.09672	3.30161	0.1497064	0.31279267	2.1493064	20	—	—
220913 2005 EJ_{145}	17.6	X	148.66030	114.09642	165.53194	7.34971	0.2074151	0.29962464	2.2118264	20	—	—
220914 2005 ER_{263}	17.6	X	182.57601	57.75947	207.35228	3.69733	0.1594475	0.30819517	2.1706285	20	—	—
220915 2005 ER_{323}	17.7	X	141.86300	236.44713	332.62076	2.23355	0.1845374	0.28518071	2.2858933	20	10 24.0	21.4
220916 2005 EB_{327}	16.9	X	170.74105	300.27133	328.09314	4.87549	0.1577798	0.30086530	2.2057417	20	—	—
220917 2005 GQ_{4}	17.0	X	149.04976	124.43071	150.68994	5.20453	0.1720514	0.29679432	2.2258659	20	—	—
220918 2005 GX_{5}	17.1	X	111.32199	234.71309	71.32759	4.34794	0.1888823	0.29469391	2.2364298	20	—	—
220919 2005 GC_{7}	17.2	X	168.46544	161.54844	80.71576	3.70193	0.1096781	0.29635056	2.2280874	20	—	—
220920 2005 GS_{10}	17.2	X	248.77745	191.54313	43.09624	5.65002	0.0999408	0.24602398	2.5224221	20	—	—
220921 2005 GS_{21}	17.3	X	193.27863	113.44450	157.75637	5.15900	0.2385730	0.30466995	2.1873400	20	—	—
220922 2005 GH_{31}	16.8	X	70.03546	139.41164	161.82345	9.91178	0.2382414	0.28743363	2.2739330	20	12 19.4	20.5
220923 2005 GQ_{49}	17.1	X	97.10814	157.77954	184.93454	4.32545	0.1914415	0.30004003	2.2097845	20	—	—
220924 2005 GO_{50}	17.8	X	115.05883	66.52541	198.61724	6.88403	0.2465125	0.28730280	2.2746233	20	12 11.7	21.7
220925 2005 GL_{93}	17.8	X	121.25556	48.29062	244.98603	4.62871	0.2121770	0.29431080	2.2383702	20	—	—
220926 2005 GN_{94}	17.9	X	281.12162	121.10655	127.50328	1.84692	0.0536326	0.31843150	2.1238575	20	1 24.9	20.2
220927 2005 GL_{148}	17.7	X	182.60634	261.30608	5.03654	6.21496	0.1460288	0.30233118	2.1986061	20	—	—
220928 2005 GY_{163}	17.0	X	84.19184	281.07770	26.37513	9.83032	0.1242575	0.29080109	2.2563443	20	—	—
220929 2005 GE_{220}	17.6	X	111.26744	108.43429	152.11244	5.33910	0.2114593	0.28780915	2.2719546	20	12 3.2	21.4
220930 2005 GW_{223}	18.3	X	271.10616	79.74467	158.02450	3.23306	0.0650755	0.31619316	2.1338689	20	—	—
220931 2005 HM	17.5	X	101.68964	53.10478	226.53787	6.20545	0.1839373	0.28844750	2.2686014	20	12 16.8	21.2
220932 2005 HN_{4}	15.2	X	297.85408	27.17170	147.69815	5.54197	0.0829087	0.17853021	3.1236443	20	—	—
220933 2005 HJ_{6}	16.8	X	68.88788	213.57822	92.76037	8.34224	0.1280600	0.28455529	2.2892415	20	12 14.3	20.0
220934 2005 JO_{17}	17.4	X	12.35371	193.86856	124.78868	6.06125	0.2451264	0.27542407	2.3395633	20	11 6.0	19.8
220935 2005 JM_{68}	17.4	X	97.08473	120.34233	133.66892	6.37984	0.2383556	0.28219931	2.3019652	20	11 15.1	21.3
220936 2005 JQ_{69}	17.4	X	152.64302	234.03328	50.67719	6.28216	0.1997196	0.29889719	2.2154136	20	—	—
220937 2005 JA_{76}	17.4	X	2.82711	18.07967	275.13323	0.70338	0.1819165	0.27070317	2.3666852	20	8 22.5	19.1
220938 2005 JA_{88}	17.3	X	146.62987	302.62181	11.30817	4.88775	0.1721150	0.30500700	2.1857283	20	—	—
220939 2005 JO_{92}	16.7	X	149.45485	51.91513	287.11844	6.78509	0.1740223	0.30538350	2.1839314	20	1 2.2	19.3
220940 2005 JG_{99}	17.2	X	40.05732	200.65859	84.38618	1.79456	0.2101936	0.27673637	2.3321612	20	10 23.2	20.0
220941 2005 JZ_{105}	17.2	X	220.08411	30.39156	162.13568	2.36781	0.0405248	0.29576542	2.2310251	20	—	—
220942 2005 JB_{112}	17.7	X	153.43735	286.93888	320.24443	0.37848	0.0761598	0.29218198	2.2492295	20	12 29.6	20.5
220943 2005 JE_{135}	17.0	X	15.78393	188.27325	95.82862	3.08365	0.2292810	0.27034156	2.3687952	20	9 15.5	19.0
220944 2005 JG_{149}	17.0	X	359.83248	274.72479	58.24922	7.45587	0.1752041	0.27774955	2.3264862	20	10 23.4	19.0
220945 2005 JP_{151}	17.8	X	144.32569	117.83581	168.90458	2.79464	0.1320069	0.29981129	2.2109083	20	—	—
220946 2005 JY_{153}	17.2	X	126.23757	94.56590	173.02648	6.88395	0.0843886	0.29035589	2.2586501	20	12 24.7	20.5
220947 2005 JA_{161}	17.2	X	71.87347	239.69111	126.34339	5.46665	0.1774744	0.29644562	2.2276110	20	—	—
220948 2005 KU_{2}	17.2	X	94.83133	71.61488	204.45461	6.25483	0.1158981	0.28519506	2.2858166	20	12 2.6	20.5
220949 2005 KD_{10}	17.0	X	62.22685	156.94947	152.02997	7.25215	0.1571330	0.28277920	2.2988170	20	12 13.7	20.4
220950 2005 KU_{10}	17.0	X	207.36356	40.62952	196.60301	5.44806	0.1210951	0.30098042	2.2051792	20	—	—
220951 2005 LT_{17}	13.2	X	301.10123	318.90407	91.37864	2.40113	0.0515171	0.08566502	5.0964416	20	9 20.1	19.8
220952 2005 LJ_{19}	17.0	X	8.46124	243.13188	137.28988	6.48058	0.2116164	0.28364448	2.2941395	20	—	—
220953 2005 LH_{26}	17.5	X	183.45262	98.95008	163.74999	5.70312	0.1407950	0.29837271	2.2180091	20	—	—
220954 2005 LD_{30}	17.1	X	329.42875	55.07537	266.15173	1.55203	0.1932794	0.26274017	2.4142657	20	7 15.9	18.9
220955 2005 LO_{48}	17.0	X	40.70538	156.29293	129.59386	1.88263	0.1789953	0.27033841	2.3688135	20	10 19.3	19.7
220956 2005 LR_{48}	16.5	X	352.25858	35.96947	275.84038	4.30410	0.2292923	0.26453708	2.4033204	20	8 29.7	18.0
220957 2005 MD_{2}	16.7	X	42.26514	223.55967	94.36784	5.02138	0.2417107	0.28031684	2.3122596	20	12 12.6	19.9
220958 2005 MF_{8}	17.3	X	5.44720	107.68632	159.36452	1.56363	0.1640546	0.26109348	2.4244061	20	7 12.1	19.2
220959 2005 ME_{12}	17.1	X	286.75531	239.57115	117.93745	3.45733	0.2174310	0.25841727	2.4411157	20	6 13.9	19.9
220960 2005 MC_{15}	16.3	X	46.60206	354.53484	290.72020	11.26096	0.1131850	0.27034837	2.3687554	20	10 8.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
220961 2005 MN_{18}	16.9	X	333.75751	83.95166	246.71828	1.46440	0.2347080	0.26331751	2.4107354	20	8 10.3	18.1
220962 2005 ML_{25}	16.9	X	326.65056	7.30731	290.16942	1.49362	0.2132619	0.25886509	2.4382995	20	5 26.4	18.9
220963 2005 MR_{25}	17.1	X	269.97296	153.49633	208.63639	1.78583	0.2019538	0.25611993	2.4556915	20	5 30.9	20.5
220964 2005 MY_{27}	16.5	X	330.67609	143.19256	221.23871	5.73905	0.1613181	0.26804122	2.3823286	20	10 1.6	18.4
220965 2005 MX_{28}	17.2	X	240.57213	319.42498	201.30288	5.85760	0.0571013	0.28416235	2.2913514	20	12 26.2	20.0
220966 2005 MG_{32}	17.0	X	301.11106	204.00267	133.60951	5.07588	0.2291580	0.25801792	2.4436339	20	6 6.2	19.7
220967 2005 ME_{33}	16.9	X	290.71036	123.42876	217.30821	2.45369	0.1319402	0.25811138	2.4430439	20	6 10.2	19.6
220968 2005 MT_{39}	16.9	X	299.22881	201.21213	136.19569	5.50554	0.2032505	0.25752586	2.4467456	20	6 7.4	19.7
220969 2005 MG_{43}	16.3	X	341.58341	135.07814	209.79676	5.56478	0.2671002	0.26651134	2.3914369	20	10 4.1	17.5
220970 2005 MS_{45}	17.2	X	294.54043	240.30727	124.09321	5.58400	0.1526202	0.26143500	2.4222942	20	7 18.4	19.8
220971 2005 MX_{45}	16.9	X	352.91785	122.17110	173.42400	4.50632	0.1926303	0.26292301	2.4131463	20	7 31.5	18.6
220972 2005 MJ_{53}	16.6	X	260.34208	111.74131	333.04149	0.87640	0.0843435	0.26670246	2.3902942	20	10 1.7	19.3
220973 2005 MN_{53}	17.3	X	302.76772	189.41606	128.86900	3.86045	0.2047919	0.25537461	2.4604671	20	5 16.1	20.1
220974 2005 MR_{53}	17.2	X	283.03040	48.83221	299.06300	1.33967	0.2040853	0.25469786	2.4648236	20	5 27.5	20.3
220975 2005 NA_{2}	17.5	X	315.89938	81.00250	219.25387	1.12175	0.1670349	0.25655326	2.4529255	20	5 17.2	20.0
220976 2005 ND_{2}	17.2	X	6.36443	150.62942	136.12897	2.62773	0.1690472	0.26411058	2.4059071	20	8 17.5	19.3
220977 2005 NC_{6}	17.0	X	269.96873	218.10888	210.89251	5.69185	0.1929402	0.26793515	2.3829573	20	9 3.6	19.8
220978 2005 NL_{9}	17.2	X	357.72332	152.93327	213.17996	1.49900	0.1192208	0.27359657	2.3499698	20	11 26.1	19.7
220979 2005 NS_{9}	17.1	X	243.91139	193.68161	192.39371	2.01203	0.2221617	0.25377254	2.4708116	20	5 31.7	20.7
220980 2005 NY_{9}	16.8	X	0.38976	94.19014	202.85879	9.84095	0.2467183	0.26741322	2.3860569	20	8 27.7	18.6
220981 2005 NE_{11}	17.0	X	335.76105	152.46347	151.07422	1.76316	0.1862802	0.26151710	2.4217873	20	7 1.6	18.7
220982 2005 NR_{11}	16.9	X	342.96931	73.68280	252.81298	4.74415	0.2440525	0.26826653	2.3809945	20	8 30.5	18.2
220983 2005 NZ_{14}	17.3	X	348.12885	107.96799	137.87011	1.06814	0.1765378	0.25581921	2.4576155	20	4 26.7	19.3
220984 2005 NT_{15}	16.5	X	303.05143	245.64276	90.02344	2.32117	0.2009464	0.25915591	2.4364751	20	6 11.0	18.8
220985 2005 NU_{28}	17.3	X	67.10834	106.87957	171.28094	6.88383	0.1007803	0.27327951	2.3517871	20	11 1.7	20.4
220986 2005 ND_{29}	16.7	X	305.13141	167.48127	202.41284	2.60482	0.2396222	0.26216937	2.4177687	20	7 31.9	18.6
220987 2005 NZ_{29}	16.9	X	309.33180	199.52964	181.18988	0.89050	0.1911430	0.26675637	2.3899722	20	9 7.7	18.9
220988 2005 NE_{32}	16.8	X	282.26207	164.79546	178.39730	6.50157	0.2277169	0.25574703	2.4580779	20	5 17.9	20.1
220989 2005 NF_{34}	17.3	X	134.05470	276.95317	311.64961	5.02370	0.1401763	0.27874752	2.3209300	20	11 8.7	20.8
220990 2005 NQ_{34}	17.2	X	102.67255	283.95538	334.59144	1.96249	0.0778834	0.27685709	2.3314832	20	11 13.2	20.4
220991 2005 NL_{42}	17.3	X	234.86695	47.28571	145.84249	5.83254	0.0918703	0.29019168	2.2595021	20	—	—
220992 2005 NZ_{48}	16.4	X	308.21475	241.97361	76.59212	7.20945	0.1513937	0.25780406	2.4449851	20	6 2.9	18.8
220993 2005 ND_{49}	16.3	X	328.14111	322.02818	31.71464	6.36189	0.1539554	0.26532614	2.3985532	20	9 12.8	18.3
220994 2005 NK_{51}	17.0	X	350.10079	74.08247	204.97425	3.80409	0.1149536	0.26064441	2.4271900	20	6 26.5	19.4
220995 2005 NP_{53}	17.3	X	357.73687	73.46302	207.06306	1.73698	0.1698311	0.26205344	2.4184817	20	7 16.9	19.2
220996 2005 NN_{61}	17.6	X	275.27541	82.55134	291.11122	0.95462	0.2004180	0.25788034	2.4445029	20	6 23.2	20.5
220997 2005 NS_{65}	17.0	X	33.92357	332.13339	265.02567	1.29163	0.1692713	0.26120545	2.4237132	20	7 24.4	19.3
220998 2005 ND_{70}	17.1	X	16.26656	298.39712	333.97411	2.01168	0.1739006	0.26375170	2.4080890	20	8 15.9	19.2
220999 2005 NE_{73}	16.7	X	10.14891	328.87135	318.57716	8.20124	0.2400886	0.26279193	2.4139487	20	9 4.1	18.7
221000 2005 NH_{75}	17.3	X	239.43392	283.67773	125.05620	2.89724	0.2081566	0.25874329	2.4390647	20	6 27.2	21.0
221001 2005 NE_{83}	16.8	X	289.31475	153.40074	211.76140	5.09568	0.1562403	0.26055138	2.4277677	20	7 9.0	19.7
221002 2005 NV_{90}	16.8	X	348.07285	143.80911	191.59706	2.29281	0.2434943	0.26749798	2.3855528	20	10 4.8	18.2
221003 2005 NH_{93}	16.7	X	277.88489	108.44930	223.72332	5.21215	0.1381474	0.25337746	2.4733794	20	5 9.4	20.0
221004 2005 NP_{95}	17.2	X	27.52561	193.13501	113.22876	3.68182	0.1967675	0.27151862	2.3619442	20	11 1.9	19.9
221005 2005 NH_{122}	17.4	X	59.04805	98.26019	171.89916	1.28054	0.1634540	0.27126740	2.3634023	20	10 18.7	20.3
221006 2005 OH_{2}	16.2	X	267.32176	269.87705	95.50987	8.11123	0.2593797	0.25539355	2.4603455	20	5 25.6	19.8
221007 2005 OD_{4}	17.5	X	92.19390	74.25109	184.92381	3.18672	0.2255900	0.27698698	2.3307542	20	11 14.5	21.3
221008 2005 OX_{5}	17.0	X	300.55391	175.38404	137.91614	2.78548	0.1848891	0.25388266	2.4700971	20	5 8.6	19.9
221009 2005 OM_{9}	16.7	X	46.45910	291.83236	343.69618	4.15414	0.2114017	0.26940632	2.3742742	20	10 15.1	19.8
221010 2005 OW_{11}	17.0	X	310.24442	144.57333	214.01267	1.24974	0.1984699	0.26125962	2.4233782	20	8 1.2	18.9
221011 2005 OJ_{13}	16.2	X	258.67512	53.70932	355.74935	12.47325	0.2180579	0.25681168	2.4512797	20	7 22.8	19.7
221012 2005 OH_{18}	16.6	X	352.62571	4.67741	298.74391	5.68340	0.1156366	0.26062880	2.4272869	20	8 8.9	19.0
221013 2005 OA_{27}	17.2	X	221.55329	356.07743	24.53147	2.10062	0.1617126	0.24712167	2.5149470	20	5 7.2	21.1
221014 2005 OB_{29}	16.7	X	322.36226	186.74172	186.36987	3.11627	0.0946693	0.26607459	2.3940531	20	9 29.7	18.9
221015 2005 PJ_{1}	16.7	X	8.61284	325.43565	0.53904	4.23366	0.1630963	0.26845354	2.3798886	20	10 21.1	19.0
221016 2005 PW_{1}	16.0	X	296.94682	248.15979	125.51192	7.23545	0.1338479	0.26176922	2.4202320	20	8 9.9	18.3
221017 2005 PB_{14}	17.0	X	1.02704	280.43119	337.76350	10.57831	0.2252321	0.25788898	2.4444483	20	6 19.1	19.0
221018 2005 PV_{14}	16.8	X	334.05140	350.41137	17.42462	2.29919	0.2232710	0.26615528	2.3935692	20	10 19.9	18.1
221019 Raine	17.4	X	278.57171	212.49136	141.98261	1.94861	0.2066566	0.25566494	2.4586041	20	5 30.9	20.7
221020 2005 PS_{20}	16.5	X	318.52468	55.12368	326.03937	3.35978	0.1760344	0.26634252	2.3924473	20	9 30.2	18.3
221021 2005 QY_{3}	16.6	X	53.36682	132.88707	136.59633	1.90379	0.1544757	0.26654235	2.3912514	20	10 9.1	19.5
221022 2005 QE_{5}	17.1	X	247.25676	62.22795	331.75735	3.81659	0.1964240	0.25520026	2.4615877	20	6 17.1	20.8
221023 2005 QK_{19}	16.5	X	190.43184	139.18361	328.99534	5.86581	0.0925012	0.25807829	2.4432528	20	8 3.7	19.9
221024 2005 QP_{19}	16.6	X	59.08619	105.23057	159.64906	6.53178	0.1514745	0.26769893	2.3843589	20	10 10.9	19.7
221025 2005 QA_{21}	16.3	X	345.59569	11.91784	357.31790	7.11169	0.1407945	0.26859288	2.3790654	20	11 7.4	18.6
221026 Jeancoester	16.5	X	203.41333	105.66956	342.77049	4.99182	0.1308711	0.25614897	2.4555058	20	7 20.3	20.1
221027 2005 QU_{31}	16.6	X	302.48288	150.11326	184.17088	6.27707	0.1562236	0.25700293	2.4500634	20	6 15.9	19.4
221028 2005 QS_{32}	16.8	X	286.51795	15.51230	354.00370	1.68739	0.1859654	0.25942037	2.4348189	20	7 6.9	19.6
221029 2005 QM_{33}	17.3	X	12.71822	141.40167	162.84354	5.30279	0.1210078	0.26488666	2.4012055	20	9 20.6	19.6
221030 2005 QO_{42}	17.0	X	339.33836	168.23485	160.39179	7.25644	0.1408219	0.26139574	2.4225368	20	8 22.9	19.1
221031 2005 QV_{42}	17.0	X	284.30535	227.14089	129.64279	3.36747	0.1853741	0.25463161	2.4652512	20	6 14.6	19.9
221032 2005 QT_{43}	17.0	X	199.53020	196.32012	122.79136	1.24167	0.1111790	0.23440719	2.6050862	20	2 2.1	20.8
221033 2005 QU_{52}	16.8	X	294.47795	283.30779	56.56064	2.37008	0.1935076	0.25680645	2.4513130	20	6 3.9	19.5
221034 2005 QX_{65}	16.5	X	15.31006	104.31904	216.35033	5.13601	0.1754630	0.26846157	2.3798411	20	10 28.1	18.7
221035 2005 QZ_{65}	16.3	X	359.37526	154.28188	175.10195	7.49737	0.1226258	0.26665570	2.3905737	20	10 5.4	18.6
221036 2005 QK_{66}	17.0	X	17.38384	92.62133	181.40148	8.92401	0.1994485	0.26157549	2.4214268	20	8 22.3	19.2
221037 2005 QL_{66}	16.5	X	308.24885	201.76864	169.85051	11.76891	0.2604581	0.26121220	2.4236715	20	8 5.9	18.6
221038 2005 QZ_{67}	16.6	X	292.74696	278.57231	86.00796	7.16766	0.1550035	0.25929485	2.4356046	20	7 15.7	19.2
221039 2005 QP_{68}	16.5	X	283.34556	352.84365	38.25546	6.97954	0.1337404	0.26146647	2.4220999	20	8 15.7	19.3
221040 2005 QE_{71}	16.2	X	205.51841	329.84217	5.61792	16.31179	0.2636767	0.23618685	2.5919835	20	3 2.6	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221041 2005 QF_{74}	16.3	X	357.81224	166.44830	201.82900	3.95859	0.1572061	0.26884134	2.3775994	20	12 3.9	18.7
221042 2005 QF_{77}	16.1	X	350.45200	113.09001	237.86471	5.44694	0.1349658	0.26884999	2.3775484	20	10 20.8	18.3
221043 2005 QC_{82}	16.7	X	258.06334	297.77191	115.45119	3.20446	0.1627073	0.25893355	2.4378698	20	8 1.1	19.6
221044 2005 QT_{88}	16.7	X	39.89226	235.25294	40.85906	1.85279	0.1602118	0.26643706	2.3918813	20	9 30.4	19.3
221045 2005 QT_{94}	16.9	X	339.72957	149.41998	142.26655	1.87511	0.1548974	0.25760726	2.4462302	20	6 23.4	18.9
221046 2005 QV_{94}	16.1	X	213.88992	105.53004	342.15878	6.70598	0.0639449	0.25972414	2.4329200	20	8 7.3	19.4
221047 2005 QZ_{97}	16.9	X	263.95301	206.97090	142.86641	7.12416	0.1228794	0.25120192	2.4876393	20	5 20.0	20.4
221048 2005 QL_{100}	17.2	X	86.06095	9.21858	222.93288	4.51148	0.0586476	0.26374438	2.4081336	20	9 13.1	20.4
221049 2005 QA_{110}	17.2	X	281.10469	210.59451	170.75391	1.40487	0.1925303	0.25681119	2.4512828	20	7 13.9	20.0
221050 2005 QT_{111}	16.5	X	263.86650	91.80126	168.66533	6.14496	0.0455038	0.23389842	2.6088625	20	1 31.9	20.3
221051 2005 QK_{113}	16.9	X	172.28182	203.21982	154.93961	3.99275	0.1903106	0.23300515	2.6155260	20	2 26.9	21.2
221052 2005 QK_{115}	15.6	X	58.28266	118.56401	356.72143	22.10976	0.0263799	0.23221109	2.6214852	20	2 28.2	19.1
221053 2005 QJ_{118}	16.9	X	268.70530	16.41653	34.41233	1.30316	0.1170425	0.26104620	2.4246988	20	8 21.2	19.6
221054 2005 QC_{127}	16.8	X	211.41398	91.95617	351.27998	2.08724	0.1795087	0.25418072	2.4681657	20	7 17.4	20.7
221055 2005 QM_{130}	16.6	X	257.81833	246.63797	48.60441	4.45089	0.1634863	0.24116294	2.5562049	20	2 28.2	20.5
221056 2005 QG_{133}	15.9	X	331.54006	6.14632	1.16422	8.58926	0.1974499	0.26488321	2.4012263	20	10 8.7	17.5
221057 2005 QV_{135}	17.1	X	118.31469	309.84984	158.51182	6.80392	0.1638170	0.24029572	2.5623514	20	5 22.1	21.0
221058 2005 QU_{142}	16.4	X	323.81385	318.58822	33.39889	7.62886	0.2142575	0.26359552	2.4090401	20	8 27.9	18.2
221059 2005 QD_{143}	16.0	X	226.77920	355.52788	317.26804	14.02183	0.0716325	0.23606882	2.5928475	20	2 20.5	19.9
221060 2005 QJ_{152}	16.7	X	161.29582	257.79301	212.81887	2.75752	0.0299769	0.25324035	2.4742720	20	7 2.1	19.9
221061 2005 QW_{154}	16.8	X	257.56134	94.96157	343.60890	9.64237	0.1068178	0.26603511	2.3942899	20	9 14.1	19.7
221062 2005 QX_{160}	16.2	X	97.31127	274.89960	162.24321	14.26650	0.1157274	0.23123880	2.6288284	20	3 9.5	19.6
221063 2005 QY_{161}	16.3	X	276.28477	33.83238	15.19817	7.61947	0.1132866	0.26266750	2.4147110	20	9 2.7	19.0
221064 2005 QL_{179}	16.3	X	220.69014	268.15785	82.66458	14.78140	0.1767036	0.24091060	2.5579896	20	4 6.8	20.7
221065 2005 QP_{187}	17.0	X	208.17707	238.66836	96.67439	5.61138	0.1713389	0.23582124	2.5946618	20	3 2.9	21.2
221066 2005 RK_{17}	17.2	X	72.09169	130.59053	113.35236	3.42329	0.1553771	0.26484869	2.4014349	20	9 28.6	20.4
221067 2005 RJ_{20}	15.9	X	199.26918	90.01910	250.56457	13.03158	0.1307392	0.23533478	2.5982363	20	2 21.7	20.3
221068 2005 RK_{24}	15.8	X	212.77156	343.40367	354.79032	14.11452	0.1853957	0.23519863	2.5992389	20	3 8.8	20.1
221069 2005 RF_{30}	16.1	X	110.95684	319.23004	207.43635	5.47573	0.0971858	0.25367909	2.4714184	20	7 20.5	19.6
221070 2005 RE_{32}	16.0	X	176.18213	226.06912	127.87475	14.42522	0.2846416	0.23072528	2.6327276	20	3 2.3	20.8
221071 2005 RR_{33}	17.0	X	258.15102	58.81374	348.45941	2.29915	0.0852183	0.25804832	2.4434420	20	8 5.5	20.0
221072 2005 SN	16.0	X	321.85331	271.11405	309.00441	5.02341	0.1164989	0.23570644	2.5955043	20	2 12.8	19.1
221073 Ovruch	16.4	X	326.79716	153.30388	226.45543	5.74117	0.1614518	0.26574028	2.3960606	20	10 17.8	18.5
221074 2005 SQ_{6}	15.9	X	118.28649	119.27317	221.40666	5.26005	0.0377965	0.21620943	2.7492841	20	—	—
221075 2005 SA_{13}	15.7	X	299.52062	94.90644	195.42499	10.33456	0.2562324	0.18111245	3.0938827	20	3 28.9	20.0
221076 2005 SM_{14}	16.3	X	282.73271	353.14383	30.11202	7.40937	0.1466289	0.25825508	2.4421376	20	7 30.7	19.2
221077 2005 SP_{20}	16.6	X	178.51275	179.15072	172.90412	4.26750	0.2726722	0.23174710	2.6249831	20	2 27.2	21.3
221078 2005 SS_{24}	16.2	X	325.18458	335.74124	46.35664	8.24683	0.2055294	0.26422663	2.4052025	20	10 21.3	17.7
221079 2005 SX_{32}	16.8	X	215.42840	139.65988	163.38154	5.99758	0.2504754	0.23235018	2.6204389	20	1 27.0	21.5
221080 2005 SR_{39}	16.8	X	16.16933	0.64036	159.39844	0.76384	0.0957087	0.23089578	2.6314314	20	2 21.1	19.4
221081 2005 SU_{45}	16.4	X	252.39484	314.60959	303.97573	1.34886	0.0505289	0.22725833	2.6594358	20	1 17.8	20.1
221082 2005 SC_{49}	16.2	X	37.55025	248.60602	195.22658	4.74321	0.0356206	0.21934764	2.7229985	20	—	—
221083 2005 SH_{49}	16.1	X	117.51985	220.10407	198.63897	12.86191	0.1535095	0.22877785	2.6476469	20	3 13.6	19.9
221084 2005 SX_{49}	16.8	X	211.67196	90.94987	200.43504	12.41216	0.1138182	0.22669518	2.6638383	20	1 10.3	21.2
221085 2005 SK_{50}	16.1	X	77.78310	262.63744	198.44423	12.40363	0.2288738	0.22659319	2.6646376	20	3 31.1	19.4
221086 2005 SG_{54}	16.7	X	269.43669	294.18316	20.39899	2.60702	0.0990327	0.24188289	2.5511302	20	4 10.9	20.3
221087 2005 SU_{60}	16.1	X	193.47414	116.83854	194.26226	12.46796	0.0944104	0.22713566	2.6603932	20	1 15.5	20.4
221088 2005 SW_{65}	15.5	X	172.08670	281.56685	31.71565	12.97802	0.1271948	0.22203157	2.7010102	20	1 2.5	19.9
221089 2005 SE_{68}	16.5	X	160.86885	51.61190	2.04441	13.37373	0.1592385	0.23742497	2.5829646	20	4 18.7	20.8
221090 2005 SZ_{79}	16.7	X	112.84931	345.17496	125.24865	1.17890	0.0093225	0.24180819	2.5516555	20	4 26.4	20.0
221091 2005 SF_{85}	17.0	X	292.72492	254.40719	13.09264	3.22421	0.1091460	0.23885363	2.5726546	20	3 8.9	20.4
221092 2005 SO_{90}	17.0	X	168.13550	156.41628	193.28553	1.60593	0.2238704	0.22944503	2.6425119	20	2 14.9	21.4
221093 2005 SM_{91}	16.6	X	20.53549	266.31979	221.78963	1.12716	0.0254653	0.22505810	2.6767406	20	1 18.9	20.1
221094 2005 SN_{94}	16.1	X	262.35519	145.86871	240.02353	13.39228	0.1848168	0.25457069	2.4656444	20	6 24.3	19.5
221095 2005 SK_{96}	17.2	X	216.11329	185.90280	152.57967	5.39073	0.2158726	0.23827985	2.5767830	20	3 10.6	21.6
221096 2005 SD_{97}	17.2	X	170.15579	223.40549	166.74184	5.11960	0.1895745	0.23603295	2.5931101	20	4 4.4	21.4
221097 2005 SL_{101}	16.4	X	255.05671	341.24568	345.31858	6.11318	0.1182421	0.24140474	2.5544978	20	4 5.2	20.1
221098 2005 SN_{103}	16.6	X	241.51185	316.80549	18.31252	10.11699	0.2318382	0.24122848	2.5557419	20	3 26.9	20.8
221099 2005 SP_{104}	16.9	X	191.37991	263.62598	82.79180	2.96726	0.1495178	0.23218330	2.6216944	20	2 29.6	21.1
221100 2005 SK_{105}	16.6	X	137.59352	185.88739	184.52161	13.10009	0.1937372	0.22520312	2.6755914	20	2 8.6	20.9
221101 2005 SX_{107}	16.8	X	98.08569	48.53518	3.81437	4.30276	0.1038762	0.22564463	2.6721001	20	2 7.2	20.2
221102 2005 SE_{109}	17.1	X	55.98396	277.35606	226.23654	1.46070	0.0555123	0.23464637	2.6033156	20	3 29.5	20.3
221103 2005 SN_{111}	15.9	X	120.07215	50.75944	4.22655	13.91328	0.1513350	0.22898070	2.6460830	20	3 15.4	19.6
221104 2005 SC_{125}	17.1	X	358.87910	264.35916	84.00446	2.41065	0.1963841	0.26585513	2.3953704	20	11 12.0	19.2
221105 2005 SK_{143}	15.9	X	318.13223	165.66983	21.46520	16.07231	0.1480748	0.22641030	2.6660724	20	—	—
221106 2005 SE_{145}	17.5	X	129.76692	21.77337	81.03430	2.91940	0.0943132	0.24113867	2.5563764	20	5 18.8	21.2
221107 2005 SB_{151}	16.8	X	132.74850	204.53262	168.68800	2.82371	0.1044429	0.22554388	2.6728957	20	1 29.8	20.6
221108 2005 SO_{152}	15.5	X	131.24153	174.14401	213.63958	14.58199	0.1213419	0.22455952	2.6807012	20	2 12.9	19.7
221109 2005 SN_{161}	17.6	X	284.66688	114.71413	313.86549	0.94580	0.1876950	0.26281250	2.4138227	20	9 30.8	19.8
221110 2005 SV_{161}	16.4	X	257.62387	334.18510	43.49556	7.38173	0.1502140	0.25311264	2.4751042	20	6 12.5	19.8
221111 2005 SA_{165}	16.4	X	263.81400	224.48781	188.23598	7.29792	0.1064851	0.25942200	2.4348087	20	8 15.3	19.5
221112 2005 SQ_{169}	16.3	X	96.45906	142.37258	359.06808	13.20749	0.0975946	0.24222701	2.5487134	20	5 25.8	20.0
221113 2005 SW_{172}	16.2	X	358.97237	247.93076	326.11340	4.72293	0.1545343	0.24148660	2.5539204	20	3 31.6	18.8
221114 2005 SQ_{189}	16.9	X	237.09835	255.40768	37.87381	2.15382	0.0216247	0.22996063	2.6385605	20	2 14.9	20.4
221115 2005 SF_{194}	15.9	X	95.34992	212.68244	209.87708	11.61112	0.1921731	0.22446913	2.6814208	20	2 24.8	19.6
221116 2005 SW_{196}	16.7	X	352.24843	97.33397	166.07806	7.03577	0.1879621	0.25622018	2.4550509	20	6 5.1	18.7
221117 2005 SE_{217}	16.8	X	163.50607	73.44609	26.04491	11.89671	0.2399089	0.24058724	2.5602811	20	6 23.7	21.4
221118 2005 SL_{218}	15.8	X	161.89248	255.32166	64.09021	6.39600	0.1312652	0.22122022	2.7076104	20	—	—
221119 2005 SY_{218}	16.0	X	354.37911	283.80440	28.90279	13.15960	0.2210242	0.26395966	2.4068240	20	9 15.6	17.9
221120 2005 SD_{219}	16.2	X	164.66584	348.19753	49.32370	4.66294	0.2244781	0.23115375	2.6294732	20	4 10.5	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221121 2005 SV_{221}	15.7	X	192.58678	226.85533	159.82662	26.19746	0.0618858	0.24143284	2.5542995	20	4 24.3	19.8
221122 2005 SA_{222}	16.3	X	198.87494	235.94077	138.67353	14.13077	0.1935728	0.23990847	2.5651080	20	4 13.8	20.8
221123 2005 SM_{222}	16.0	X	153.39689	308.22562	113.09126	15.33697	0.0913710	0.23749130	2.5824837	20	4 28.0	20.1
221124 2005 SZ_{224}	16.4	X	71.17952	236.26812	192.25590	6.96500	0.1346905	0.22231961	2.6986767	20	1 22.1	19.6
221125 2005 SM_{231}	16.7	X	174.95713	154.60290	209.98557	2.03535	0.0897263	0.23069830	2.6329328	20	3 2.8	20.5
221126 2005 SW_{233}	17.0	X	56.83484	245.26755	202.61130	3.00691	0.0633483	0.22142996	2.7059003	20	1 19.2	20.4
221127 2005 SB_{236}	16.4	X	221.24519	42.65450	221.60540	11.01720	0.1533345	0.22289051	2.6940666	20	—	—
221128 2005 SK_{253}	16.7	X	318.87857	125.42368	188.58803	12.01447	0.2283135	0.25755632	2.4465527	20	6 4.3	19.2
221129 2005 SQ_{259}	16.1	X	111.25768	261.47696	149.97161	14.96906	0.1897664	0.22926725	2.6438777	20	3 5.4	19.8
221130 2005 SX_{263}	16.7	X	230.73910	186.15273	114.15930	3.51832	0.0221588	0.22949081	2.6421604	20	2 15.9	20.3
221131 2005 SA_{270}	15.6	X	214.88659	229.27854	25.64720	9.57211	0.1883423	0.21983233	2.7189945	20	—	—
221132 2005 SG_{275}	15.4	X	205.04790	237.69678	124.24321	18.21842	0.2538049	0.23482636	2.6019851	20	4 4.8	20.3
221133 2005 SU_{278}	16.7	X	173.50898	87.59877	218.66793	4.53759	0.1636397	0.21955695	2.7212676	20	—	—
221134 2005 SB_{280}	16.4	X	317.41519	35.51309	184.93525	3.77911	0.2175031	0.23525764	2.5988042	20	1 22.5	19.7
221135 2005 SX_{280}	16.4	X	113.26000	29.21976	332.85869	9.03670	0.1995990	0.21900604	2.7258293	20	1 9.3	20.2
221136 2005 SU_{281}	16.8	X	109.08437	263.27098	179.37333	7.87451	0.0934956	0.23117072	2.6293446	20	3 28.5	20.3
221137 2005 SP_{283}	16.5	X	224.69299	125.52325	154.33566	13.22409	0.1583252	0.22641131	2.6660644	20	1 9.6	21.0
221138 2005 TX_{1}	15.7	X	303.86754	215.43130	359.24347	12.48176	0.1352564	0.23129896	2.6283726	20	1 14.9	19.5
221139 2005 TH_{3}	16.0	X	170.07434	299.17681	43.86310	13.69223	0.2938562	0.22868578	2.6483575	20	2 18.6	21.0
221140 2005 TU_{5}	16.1	X	7.86634	119.98729	322.72259	7.86446	0.1367645	0.21311182	2.7758609	20	—	—
221141 2005 TO_{11}	16.3	X	357.97627	302.81719	197.72149	8.33780	0.2239296	0.21807538	2.7335790	20	—	—
221142 2005 TP_{12}	17.0	X	140.42298	238.08496	167.26181	2.51695	0.2700474	0.23053449	2.6341800	20	4 2.4	21.3
221143 2005 TP_{19}	17.4	X	156.28275	230.96943	226.78686	2.07581	0.1547348	0.24416332	2.5352207	20	6 13.4	21.3
221144 2005 TU_{19}	16.7	X	232.54419	35.11038	228.89839	1.55333	0.1604701	0.22897707	2.6461110	20	—	—
221145 2005 TN_{21}	16.7	X	171.50433	181.48265	163.88800	4.44266	0.1180611	0.22933088	2.6433887	20	2 6.5	20.7
221146 2005 TE_{26}	17.1	X	212.28976	168.50134	191.67561	1.79180	0.1296744	0.23704543	2.5857210	20	4 4.6	21.0
221147 2005 TY_{35}	16.8	X	153.00571	35.68571	54.13754	2.73116	0.1554605	0.24187991	2.5511511	20	5 30.8	20.9
221148 2005 TH_{41}	16.1	X	155.09452	18.47503	35.37233	2.29123	0.2417771	0.22727041	2.6593416	20	4 22.3	20.5
221149 Cindyfoote	16.6	X	164.88297	38.22236	341.01261	3.87884	0.0365588	0.23345081	2.6121962	20	3 6.8	20.2
221150 Jerryfoote	16.2	X	150.22832	169.64869	201.97834	9.67551	0.1234903	0.22919353	2.6444446	20	2 15.1	20.3
221151 2005 TF_{62}	17.5	X	239.01543	148.67346	165.47347	2.80787	0.1600365	0.23592942	2.5938686	20	3 2.8	21.4
221152 2005 TR_{62}	16.3	X	103.23204	188.14495	191.34482	6.32118	0.0602390	0.21975920	2.7195978	20	—	—
221153 2005 TU_{73}	16.8	X	290.69458	292.72019	38.98254	7.15358	0.1533739	0.25229596	2.4804426	20	5 23.2	19.7
221154 2005 TY_{75}	15.5	X	180.56756	148.19633	226.05991	12.14170	0.2136403	0.23302358	2.6153881	20	3 21.2	20.2
221155 2005 TK_{79}	16.5	X	249.53776	290.55756	345.27841	12.84084	0.2050686	0.23373949	2.6100450	20	1 27.3	20.9
221156 2005 TH_{81}	16.0	X	224.60617	52.69706	213.77203	13.12730	0.1011765	0.22515025	2.6760101	20	—	—
221157 2005 TZ_{91}	16.1	X	221.61044	322.82249	292.77786	5.21189	0.0747344	0.22150204	2.7053133	20	—	—
221158 2005 TD_{101}	15.9	X	19.03741	99.66363	31.36635	11.90099	0.0242068	0.22505099	2.6767970	20	1 24.7	19.6
221159 2005 TD_{105}	16.8	X	150.41163	30.79160	353.99307	7.34447	0.2756590	0.22973997	2.6402497	20	3 16.5	21.3
221160 2005 TM_{106}	16.4	X	249.93303	266.27001	5.40709	7.28908	0.1900994	0.23055214	2.6340455	20	1 22.5	20.7
221161 2005 TP_{106}	15.8	X	113.17945	124.19011	329.92803	11.20662	0.1340044	0.23330676	2.6132713	20	4 16.8	19.7
221162 2005 TZ_{107}	17.2	X	161.49667	64.97117	24.42211	2.93003	0.0992197	0.24313166	2.5423873	20	6 5.4	21.0
221163 2005 TU_{113}	17.1	X	45.01747	173.14649	356.43780	1.45245	0.0786620	0.23835612	2.5762332	20	4 20.1	20.2
221164 2005 TY_{121}	17.6	X	171.53690	263.12205	194.32883	11.94304	0.2361872	0.24364069	2.5388449	20	6 27.0	22.2
221165 2005 TT_{124}	16.7	X	36.75777	161.57268	16.21202	7.62233	0.1357786	0.23618212	2.5920181	20	4 23.0	19.3
221166 2005 TE_{131}	17.0	X	51.99553	233.61024	171.22294	4.11261	0.0713317	0.21410571	2.7672637	20	—	—
221167 2005 TJ_{131}	16.2	X	333.13697	118.76513	44.13317	5.81714	0.0964445	0.22033813	2.7148319	20	—	—
221168 2005 TV_{131}	16.6	X	97.22106	208.18559	154.08934	2.00122	0.1066759	0.21635913	2.7480159	20	—	—
221169 2005 TS_{135}	17.1	X	184.51059	287.84675	158.94650	3.85019	0.1648765	0.24702150	2.5156268	20	6 26.1	21.2
221170 2005 TH_{138}	16.4	X	270.01561	168.30673	149.60917	4.46068	0.0665638	0.24085188	2.5584054	20	4 22.6	19.8
221171 2005 TP_{160}	16.6	X	41.45508	232.30389	295.35477	3.32421	0.0278604	0.23604329	2.5930344	20	4 5.9	19.9
221172 2005 TE_{171}	15.5	X	284.47065	339.60854	276.37587	10.90208	0.0216441	0.23208196	2.6224575	20	2 20.1	19.3
221173 2005 TX_{171}	16.9	X	155.98928	67.68623	345.39515	10.16798	0.2876146	0.23361286	2.6109880	20	4 19.9	21.7
221174 2005 TD_{181}	16.6	X	285.92432	206.78293	53.79659	0.66854	0.1396896	0.23544489	2.5974261	20	2 16.4	20.2
221175 2005 UR_{7}	15.4	X	348.75303	339.65827	238.47470	12.68930	0.1475364	0.23869334	2.5738062	20	3 14.8	18.4
221176 2005 UN_{9}	16.8	X	146.42147	240.13468	171.05012	7.61823	0.1877642	0.23294023	2.6160119	20	4 9.6	21.0
221177 2005 UH_{10}	16.1	X	115.62751	216.77953	158.96145	7.08094	0.1095378	0.22174974	2.7032983	20	1 13.6	19.8
221178 2005 UE_{18}	16.7	X	138.08593	138.02993	264.00675	1.04104	0.0894612	0.23045201	2.6348085	20	3 9.5	20.5
221179 2005 UQ_{18}	16.1	X	192.08483	256.58365	90.19831	2.90304	0.1432912	0.22989608	2.6390544	20	3 1.7	20.4
221180 2005 UR_{20}	15.5	X	67.77529	233.46867	235.38497	12.90873	0.1479585	0.22481407	2.6786773	20	3 8.2	19.0
221181 2005 UA_{23}	16.5	X	335.80599	159.49133	16.75151	5.67211	0.0957468	0.22275310	2.6951744	20	1 13.6	19.9
221182 2005 UG_{25}	16.9	X	261.86070	257.41036	342.24453	1.10682	0.0175777	0.22202996	2.7010233	20	1 9.6	20.6
221183 2005 UY_{28}	16.5	X	175.21026	35.05668	4.83460	2.41411	0.2159617	0.23529752	2.5985105	20	4 19.8	21.0
221184 2005 UA_{29}	16.1	X	110.59290	153.07386	231.91748	6.37911	0.0956498	0.22025800	2.7154903	20	1 16.4	19.8
221185 2005 UN_{29}	15.9	X	14.66368	275.48535	227.72781	4.48283	0.0593291	0.22237888	2.6981972	20	1 28.3	19.3
221186 2005 UD_{30}	15.9	X	85.12142	16.86605	53.90692	10.54092	0.1567565	0.22156854	2.7047719	20	2 26.0	19.5
221187 2005 UV_{31}	16.8	X	118.29945	212.83855	197.27965	1.82562	0.0456336	0.22667441	2.6640010	20	2 19.6	20.5
221188 2005 UJ_{37}	16.5	X	150.10890	197.87086	189.55480	3.85687	0.2284829	0.22847847	2.6499592	20	3 16.1	20.8
221189 2005 UN_{41}	15.5	X	196.51798	228.43823	192.04521	8.42575	0.1519518	0.24025238	2.5626596	20	6 4.8	19.7
221190 2005 UP_{43}	16.4	X	134.76309	15.93466	347.42814	3.23874	0.1091557	0.22200663	2.7012125	20	1 22.3	20.1
221191 2005 UF_{48}	16.7	X	241.06280	243.48031	102.09373	3.97733	0.1848776	0.24129780	2.5552524	20	4 12.4	20.7
221192 2005 UY_{48}	15.9	X	181.89651	8.12378	264.62901	3.79933	0.0456652	0.21500489	2.7595429	20	—	—
221193 2005 UQ_{49}	16.2	X	143.24968	310.04495	37.03131	3.12423	0.0761626	0.21949132	2.7218100	20	1 7.9	20.1
221194 2005 UF_{52}	16.0	X	86.76673	146.92164	274.67288	5.81209	0.0772696	0.22262724	2.6961901	20	1 28.6	19.5
221195 2005 UJ_{53}	16.0	X	27.97647	357.44180	94.99382	3.37197	0.0339102	0.21753052	2.7381417	20	—	—
221196 2005 UR_{54}	16.3	X	197.97332	125.59416	243.22029	11.11463	0.2836940	0.23646887	2.5899223	20	3 27.6	21.2
221197 2005 UV_{54}	16.3	X	210.85979	4.52911	7.87730	4.71969	0.2913570	0.23904663	2.5712697	20	4 12.7	20.8
221198 2005 UH_{55}	16.4	X	188.33852	341.87008	2.92414	3.92076	0.2236814	0.23099707	2.6306621	20	2 26.1	20.9
221199 2005 UU_{55}	16.4	X	83.77771	213.70647	216.96293	7.09522	0.1957015	0.22189701	2.7021021	20	2 21.3	19.8
221200 2005 UA_{56}	16.2	X	171.43502	147.49639	218.71162	1.67406	0.1725034	0.22937640	2.6430389	20	3 5.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221201 2005 UY_{56}	16.0	X	163.71329	337.40015	6.31877	7.64015	0.0161785	0.22372878	2.6873329	20	1 22.4	19.7
221202 2005 UR_{61}	16.7	X	84.67751	81.93828	64.85755	3.57754	0.0998396	0.23473095	2.6026902	20	5 21.7	19.8
221203 2005 UT_{65}	16.3	X	70.54867	97.62681	313.45044	6.00380	0.1803104	0.21932083	2.7232204	20	1 6.9	19.2
221204 2005 UH_{67}	16.9	X	134.57672	281.13597	167.89482	3.67802	0.1979202	0.23539033	2.5978275	20	5 16.1	21.0
221205 2005 UE_{70}	16.0	X	58.41490	137.79453	304.97114	11.25520	0.1359210	0.22169928	2.7037085	20	1 22.6	18.8
221206 2005 UO_{72}	16.5	X	161.79315	205.06467	182.36397	1.71623	0.1064753	0.23087913	2.6315579	20	3 19.1	20.5
221207 2005 UD_{74}	16.0	X	80.53311	209.56070	201.17684	4.65749	0.1104666	0.21753666	2.7380902	20	1 11.7	19.5
221208 2005 UX_{76}	16.5	X	198.83638	218.15947	136.54430	12.47446	0.1867504	0.23444209	2.6048276	20	3 19.1	20.9
221209 2005 UZ_{76}	16.1	X	168.56161	264.06663	117.41312	12.74548	0.2069688	0.23237114	2.6202813	20	3 28.9	20.7
221210 2005 UJ_{79}	15.7	X	195.45431	204.31270	208.49696	11.55386	0.0565954	0.23969061	2.5666621	20	5 27.7	19.4
221211 2005 UC_{80}	15.9	X	180.35023	170.29143	207.11503	9.50199	0.2366068	0.23286919	2.6165439	20	3 27.5	20.5
221212 2005 UE_{80}	16.2	X	148.01973	289.68638	72.21581	9.69185	0.2010154	0.22385952	2.6862865	20	2 15.2	20.6
221213 2005 UH_{81}	16.5	X	30.44332	92.87461	291.64592	0.98513	0.0774855	0.20301090	2.8671900	20	—	—
221214 2005 UQ_{85}	16.6	X	41.21071	43.30998	139.90321	2.28829	0.0514027	0.23724562	2.5842662	20	5 1.9	19.6
221215 2005 UA_{88}	17.0	X	275.84389	119.84154	197.68832	3.80595	0.1539134	0.24311144	2.5425283	20	4 15.2	20.4
221216 2005 UM_{91}	15.7	X	233.68524	332.66614	338.69925	4.41717	0.1479838	0.23254842	2.6189495	20	2 24.6	19.7
221217 2005 UJ_{96}	15.9	X	137.93591	310.21867	51.52773	12.28086	0.2026854	0.22349058	2.6892421	20	2 6.7	20.3
221218 2005 UK_{96}	16.0	X	215.75888	165.29418	87.24798	4.29382	0.0462927	0.21513536	2.7584271	20	—	—
221219 2005 UK_{101}	16.4	X	66.35522	222.94737	172.29867	5.63524	0.0822800	0.21369575	2.7708018	20	—	—
221220 2005 UF_{111}	17.0	X	169.48720	68.31441	348.95559	1.91339	0.1867956	0.23526818	2.5987266	20	5 5.5	21.3
221221 2005 UR_{114}	16.3	X	140.97665	192.16846	181.98432	14.39407	0.1351592	0.22627066	2.6671691	20	2 10.4	20.5
221222 2005 UH_{125}	16.3	X	133.82896	294.40370	9.28451	1.58933	0.0663749	0.20972863	2.8056333	20	—	—
221223 2005 UK_{127}	16.5	X	164.37426	281.48790	37.74125	2.82909	0.1158907	0.21935883	2.7229059	20	—	—
221224 2005 UA_{128}	17.0	X	89.85540	60.99285	263.42928	0.92255	0.0665575	0.20563120	2.8427808	20	—	—
221225 2005 UN_{132}	15.9	X	90.77124	223.93632	185.43255	13.28983	0.1401179	0.21980631	2.7192092	20	1 26.6	19.6
221226 2005 UQ_{138}	16.4	X	61.31393	274.64750	202.78524	2.51576	0.0647497	0.22606784	2.6687641	20	3 3.8	19.6
221227 2005 UA_{148}	16.4	X	15.83351	190.53370	13.61029	4.42847	0.0844222	0.23492709	2.6012413	20	4 21.2	19.1
221228 2005 UL_{156}	15.8	X	205.27952	36.68718	218.17888	9.38039	0.2099367	0.21760234	2.7375392	20	—	—
221229 2005 UA_{158}	17.2	X	201.83105	108.37510	218.68982	0.47105	0.0968519	0.22942276	2.6426828	20	2 14.2	21.1
221230 Sanaloria	16.5	X	37.42823	183.15395	239.39985	2.50021	0.0935911	0.21084952	2.7956811	20	—	—
221231 2005 UP_{160}	16.5	X	132.32677	194.15845	187.59458	11.84097	0.1886060	0.22614069	2.6681909	20	2 16.6	20.7
221232 2005 UZ_{176}	16.1	X	186.73725	278.07819	31.71812	4.14321	0.0725745	0.22003277	2.7173431	20	1 10.1	20.2
221233 2005 UT_{177}	16.1	X	111.29863	335.08231	36.82202	6.57623	0.0424703	0.21687715	2.7436383	20	—	—
221234 2005 UG_{178}	16.6	X	138.44901	1.72128	21.06257	3.20019	0.0938735	0.22478639	2.6788971	20	2 17.7	20.4
221235 2005 UG_{182}	16.7	X	187.96024	325.71690	320.14241	0.03032	0.0372484	0.21449047	2.7639534	20	—	—
221236 2005 US_{190}	16.4	X	132.93305	148.34856	233.40375	2.14713	0.1061962	0.22380058	2.6867582	20	2 9.7	20.3
221237 2005 UT_{190}	16.7	X	203.13137	106.85174	234.40435	1.64403	0.1586422	0.23141742	2.6274755	20	3 2.9	20.8
221238 2005 UQ_{200}	16.8	X	17.84397	267.50848	181.27745	2.14157	0.0278919	0.21352658	2.7722651	20	—	—
221239 2005 UZ_{203}	16.0	X	143.02055	257.54286	54.75472	5.67514	0.1150051	0.21411366	2.7671952	20	—	—
221240 2005 UT_{214}	15.7	X	332.90851	301.80908	176.46881	11.56206	0.1637085	0.21103992	2.7939994	20	—	—
221241 2005 UK_{215}	15.6	X	178.54149	223.30832	90.20823	12.64422	0.1029649	0.22202295	2.7010801	20	1 6.9	19.7
221242 2005 UQ_{216}	16.4	X	148.00828	310.48139	71.29732	3.18708	0.2175074	0.22634437	2.6665900	20	3 9.0	20.7
221243 2005 UF_{221}	16.9	X	158.85939	290.82106	323.44954	3.18992	0.0733426	0.20587983	2.8404916	20	12 24.8	21.2
221244 2005 UB_{227}	16.3	X	181.83021	285.67882	60.87509	3.27571	0.0195502	0.22632002	2.6667813	20	2 16.2	19.9
221245 2005 UC_{238}	15.8	X	178.87600	256.32496	90.00042	6.69144	0.1275884	0.22660787	2.6645225	20	2 18.7	20.0
221246 2005 UK_{240}	16.1	X	153.72464	106.42159	196.32105	8.62507	0.1455783	0.21462555	2.7627936	20	—	—
221247 2005 UT_{245}	15.8	X	99.87745	332.41130	67.25541	14.81544	0.2015244	0.22034599	2.7147673	20	2 12.9	19.7
221248 2005 UN_{251}	16.4	X	214.83987	9.61507	339.39836	4.34236	0.2760081	0.23673693	2.5879668	20	3 19.2	21.1
221249 2005 UE_{252}	16.9	X	163.36422	47.34654	338.68933	2.94216	0.2537375	0.23067464	2.6331129	20	3 26.0	21.4
221250 2005 UY_{253}	16.0	X	124.10571	341.38642	20.79646	7.22925	0.1309758	0.21872799	2.7281389	20	1 12.7	19.9
221251 2005 UJ_{257}	16.9	X	161.76796	128.14762	179.41904	2.27024	0.0475208	0.21661212	2.7458758	20	—	—
221252 2005 UL_{257}	16.3	X	203.00436	207.01393	69.88996	3.76130	0.1502126	0.22035157	2.7147215	20	—	—
221253 2005 UG_{267}	17.0	X	311.33380	74.77470	178.82423	3.26898	0.0195008	0.23236810	2.6203042	20	3 28.9	20.4
221254 2005 UJ_{274}	15.6	X	124.68678	166.43004	296.36202	17.87972	0.1443050	0.23799354	2.5788491	20	5 14.2	19.8
221255 2005 UJ_{275}	16.0	X	153.65251	81.62344	255.93456	4.18267	0.0714115	0.22118629	2.7078872	20	1 6.5	19.8
221256 2005 UG_{282}	17.1	X	202.10211	230.03947	104.27983	2.77391	0.0983715	0.23102127	2.6304784	20	2 24.4	21.0
221257 2005 UY_{284}	16.5	X	174.52468	250.67720	103.15562	4.73349	0.0937747	0.22857787	2.6491910	20	2 20.8	20.5
221258 2005 UJ_{292}	16.5	X	270.76575	302.16035	353.17712	2.87491	0.0564947	0.23401189	2.6080191	20	3 24.4	19.9
221259 2005 UM_{299}	16.5	X	66.06531	282.74551	212.14176	2.27159	0.1074529	0.22905123	2.6455397	20	4 9.4	19.7
221260 2005 UB_{303}	16.3	X	175.94898	204.70810	159.62095	5.51771	0.2105748	0.23004535	2.6379126	20	3 9.6	20.8
221261 2005 UW_{303}	16.1	X	74.55187	178.76972	192.64730	9.33677	0.0994877	0.21000468	2.8031741	20	—	—
221262 2005 UY_{305}	17.0	X	137.31309	3.55411	23.92135	2.41095	0.0362993	0.22630957	2.6668634	20	2 14.8	20.6
221263 2005 UT_{308}	17.2	X	250.21396	30.15622	219.69886	2.31508	0.1393669	0.22537911	2.6741983	20	—	—
221264 2005 UX_{308}	15.7	X	250.23702	88.53231	202.81584	13.88662	0.0304574	0.23051711	2.6343124	20	2 22.8	19.5
221265 2005 UQ_{309}	15.6	X	233.35856	299.93269	234.64824	18.75768	0.0840851	0.20073525	2.8888187	20	12 8.3	19.7
221266 2005 UW_{310}	16.8	X	234.04175	229.75332	85.73643	2.52076	0.0554137	0.23403926	2.6078158	20	3 7.9	20.5
221267 2005 US_{313}	15.8	X	126.82023	263.03718	77.12184	16.00054	0.1584330	0.21835258	2.7312650	20	—	—
221268 2005 UT_{317}	16.4	X	143.43965	80.06341	35.79797	10.04594	0.0467763	0.24217263	2.5490950	20	6 16.2	20.1
221269 2005 UL_{320}	16.5	X	12.37104	15.20495	153.09942	2.96100	0.1288039	0.22517940	2.6757793	20	2 26.0	19.3
221270 2005 UN_{321}	16.3	X	332.50778	136.26534	37.56364	3.92667	0.1302543	0.21710620	2.7417082	20	1 1.1	19.9
221271 2005 UY_{322}	16.3	X	242.04786	338.09499	310.57363	1.02822	0.0304061	0.22697085	2.6616809	20	2 13.7	19.9
221272 2005 UL_{324}	16.3	X	209.82487	179.38804	174.89767	2.56213	0.0708088	0.23388380	2.6089712	20	3 27.9	20.1
221273 2005 UH_{334}	16.4	X	109.99684	305.03480	79.53918	5.99421	0.1330917	0.21872127	2.7281948	20	1 23.3	20.0
221274 2005 UH_{335}	15.9	X	210.73835	342.01580	320.53784	11.75119	0.2526435	0.23143914	2.6273112	20	1 25.4	20.5
221275 2005 UD_{340}	16.4	X	187.77344	256.53853	97.64906	2.87932	0.0921756	0.23009460	2.6375362	20	3 5.5	20.3
221276 2005 UQ_{340}	16.6	X	78.43619	231.55658	140.37459	4.28431	0.1054253	0.21220316	2.7837794	20	—	—
221277 2005 US_{340}	16.5	X	185.63495	195.35115	150.81629	3.96470	0.1748743	0.22938164	2.6429987	20	2 23.8	20.7
221278 2005 UO_{343}	16.4	X	74.94941	229.99856	159.97571	5.49810	0.1753797	0.21471616	2.7620162	20	—	—
221279 2005 UU_{348}	15.0	X	239.38646	278.79997	20.07104	13.08727	0.1984196	0.23026828	2.6362098	20	2 17.8	19.5
221280 2005 UZ_{348}	16.1	X	170.32111	189.62392	197.49705	13.49949	0.2503512	0.23280256	2.6170432	20	4 1.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221281 2005 US_{351}	16.4	X	284.89412	343.56810	315.67193	3.60444	0.1466512	0.24139861	2.5545410	20	4 1.3	19.8
221282 2005 UP_{353}	16.1	X	153.95706	355.56456	344.27874	5.30602	0.0607605	0.22063252	2.7124165	20	1 9.9	20.0
221283 2005 UB_{354}	16.0	X	215.78540	321.27593	17.41762	5.93119	0.2122701	0.23278379	2.6171838	20	3 11.8	20.5
221284 2005 UW_{355}	16.2	X	165.32833	254.29794	99.61529	2.93165	0.1047581	0.22384662	2.6863898	20	2 11.9	20.1
221285 2005 UZ_{357}	16.4	X	351.07141	249.56059	331.20615	3.80733	0.0964875	0.24060550	2.5601516	20	3 31.8	19.4
221286 2005 UJ_{374}	16.5	X	63.36142	62.98360	269.38916	0.95984	0.0722602	0.20071577	2.8890057	20	12 15.2	20.6
221287 2005 UM_{379}	16.5	X	209.00497	105.65130	194.42015	5.54248	0.1078086	0.22587067	2.6703170	20	1 19.1	20.7
221288 2005 UF_{383}	16.1	X	231.20656	167.36120	157.04288	13.50512	0.2538750	0.23615264	2.5922339	20	3 4.2	20.5
221289 2005 UO_{386}	15.7	X	197.70239	244.07373	104.66535	14.28757	0.2153622	0.23375762	2.6099100	20	3 13.6	20.4
221290 2005 UQ_{439}	16.2	X	213.79651	122.37855	238.95901	13.88964	0.0849583	0.23977331	2.5660719	20	4 5.4	20.2
221291 2005 UF_{440}	15.9	X	81.06420	183.80211	239.12111	13.44556	0.0491005	0.22356322	2.6886595	20	1 16.3	19.6
221292 2005 UK_{449}	15.9	X	162.55402	24.63886	1.70487	7.79290	0.1945188	0.23020113	2.6367224	20	3 23.6	20.1
221293 2005 UL_{449}	16.0	X	93.10798	39.10547	7.09925	9.27947	0.1151768	0.21916874	2.7244802	20	1 28.1	19.6
221294 2005 UX_{449}	16.1	X	137.61831	9.11708	310.32010	2.77199	0.0874902	0.21144051	2.7904693	20	—	—
221295 2005 UB_{460}	16.3	X	118.26156	283.49989	35.42155	3.60032	0.1363044	0.20895891	2.8125189	20	—	—
221296 2005 UT_{479}	16.6	X	110.50010	297.57267	162.18262	6.26369	0.2326642	0.23078452	2.6322771	20	5 10.7	20.7
221297 2005 UG_{482}	16.8	X	113.09068	122.04245	317.70647	2.44814	0.0958990	0.23217193	2.6217800	20	3 28.3	20.4
221298 2005 UA_{487}	16.1	X	211.10677	3.08127	324.74509	14.89016	0.1480441	0.23394914	2.6084854	20	2 22.1	20.2
221299 2005 UD_{491}	15.9	X	153.76774	337.80079	352.22550	6.69823	0.1138300	0.21978668	2.7193710	20	1 3.4	20.0
221300 2005 UJ_{493}	16.1	X	113.23500	44.24636	334.88775	11.42113	0.1910085	0.22121236	2.7076745	20	1 29.6	19.9
221301 2005 UZ_{494}	16.2	X	80.49581	280.97263	154.59548	13.75180	0.1657036	0.22076864	2.7113013	20	2 21.2	19.3
221302 2005 UK_{500}	16.1	X	226.17206	146.59595	182.59900	14.14751	0.1910792	0.23463172	2.6034240	20	3 6.7	20.4
221303 2005 UQ_{501}	16.5	X	198.95300	182.53124	171.28780	14.72126	0.2687914	0.23367605	2.6105173	20	3 15.0	21.1
221304 2005 UJ_{509}	16.2	X	137.42928	41.58716	272.46057	3.18164	0.0600089	0.21164845	2.7886413	20	—	—
221305 2005 UF_{516}	16.4	X	135.83215	78.58562	231.05626	5.48030	0.0287137	0.20888301	2.8132002	20	—	—
221306 2005 US_{521}	16.5	X	49.84542	269.06898	155.84580	5.56272	0.0305687	0.21950267	2.7217162	20	—	—
221307 2005 UA_{527}	16.6	X	25.51666	226.60500	206.03927	3.56575	0.0846539	0.20969095	2.8059693	20	—	—
221308 2005 VX	16.5	X	124.20820	183.96574	181.03443	5.31304	0.0785387	0.22070810	2.7117971	20	1 6.7	20.3
221309 2005 VK_{5}	15.9	X	260.30854	48.20819	288.81946	7.10478	0.2059666	0.24273454	2.5451595	20	4 12.9	19.9
221310 2005 VZ_{15}	16.1	X	280.24875	1.08817	313.14202	12.75112	0.1440035	0.24293308	2.5437726	20	4 10.2	20.0
221311 2005 VW_{16}	15.6	X	130.72875	206.37036	193.53669	14.08526	0.1089122	0.22577054	2.6711065	20	2 27.9	19.6
221312 2005 VE_{17}	16.1	X	64.40580	223.13772	207.81929	8.97220	0.1519122	0.21606524	2.7505071	20	1 17.3	19.4
221313 2005 VN_{26}	16.7	X	229.57452	75.08318	259.03355	3.90321	0.2626874	0.23826062	2.5769216	20	3 11.5	21.4
221314 2005 VB_{42}	15.7	X	165.03402	226.58600	90.32180	10.22613	0.1327225	0.22039067	2.7144004	20	—	—
221315 2005 VM_{42}	16.1	X	219.39819	166.99358	186.09403	10.17221	0.2550781	0.23708591	2.5854267	20	3 28.8	20.6
221316 2005 VW_{50}	16.7	X	133.75285	227.09975	164.74596	7.28354	0.1355041	0.22731009	2.6590320	20	2 26.6	20.6
221317 2005 VT_{51}	16.0	X	203.18863	128.99740	166.39587	9.92277	0.0841633	0.22312403	2.6921866	20	1 8.3	20.2
221318 2005 VF_{53}	15.6	X	184.21099	235.34023	174.78171	4.37505	0.1182506	0.23565218	2.5959027	20	5 11.2	19.5
221319 2005 VG_{61}	15.5	X	218.13673	126.21187	197.23908	11.93659	0.1459314	0.23103006	2.6304116	20	2 21.9	19.8
221320 2005 VG_{77}	16.4	X	240.88840	257.19639	327.47936	1.59273	0.0490314	0.21588413	2.7520452	20	—	—
221321 2005 VD_{86}	16.5	X	205.77389	186.03674	186.83164	4.89611	0.1516499	0.23496582	2.6009555	20	4 14.2	20.5
221322 2005 VG_{98}	16.5	X	248.14177	84.88017	241.88535	6.91755	0.2184819	0.23861854	2.5743441	20	3 19.2	20.9
221323 2005 VO_{98}	15.2	X	179.74030	58.75922	321.62272	14.36782	0.0814910	0.23287530	2.6164981	20	3 21.2	19.4
221324 2005 VC_{102}	15.0	X	114.08887	134.91841	11.76636	12.85009	0.2257980	0.23717401	2.5847864	20	7 13.7	19.4
221325 2005 VK_{102}	16.2	X	159.96942	358.16775	53.88562	15.55560	0.2469079	0.23300697	2.6155123	20	4 26.9	20.7
221326 2005 VK_{106}	16.4	X	143.30815	349.80010	52.28989	4.54622	0.1885879	0.22813989	2.6525804	20	3 27.2	20.6
221327 2005 VY_{109}	16.4	X	12.47879	145.69083	52.95173	7.12382	0.1032560	0.23299537	2.6155992	20	4 11.2	19.2
221328 2005 VV_{117}	16.0	X	201.07299	221.55264	151.18828	14.77974	0.1350544	0.23530195	2.5984779	20	4 13.7	20.3
221329 2005 VM_{120}	15.8	X	270.17680	79.41834	320.27189	3.65535	0.1853135	0.17394608	3.1782858	20	7 20.2	20.1
221330 2005 VO_{124}	16.7	X	295.53191	276.16080	298.83565	0.72701	0.0095015	0.22024630	2.7155865	20	1 21.6	20.5
221331 2005 VG_{131}	16.3	X	165.31478	141.35022	153.05051	6.99270	0.0184068	0.21634567	2.7481298	20	—	—
221332 2005 WB_{2}	16.3	X	70.16243	263.56983	74.45030	3.03645	0.0815006	0.20207165	2.8760678	20	12 31.3	20.4
221333 2005 WL_{2}	15.5	X	103.22255	129.57516	358.17707	32.05146	0.1959324	0.23365413	2.6106806	20	5 18.8	20.1
221334 2005 WX_{2}	15.5	X	240.77373	317.47333	337.50964	11.21627	0.1763539	0.23292454	2.6161293	20	2 11.4	19.6
221335 2005 WK_{7}	16.2	X	114.19938	35.11295	8.10987	5.24930	0.0662076	0.22310078	2.6923736	20	2 11.6	19.8
221336 2005 WE_{8}	15.7	X	173.01317	352.83301	25.20615	13.70024	0.2929319	0.22958791	2.6414154	20	3 28.6	20.5
221337 2005 WG_{13}	16.2	X	86.89814	26.23629	211.15523	1.23350	0.0175883	0.18472349	3.0534299	20	9 6.5	20.5
221338 2005 WP_{15}	16.1	X	143.61720	115.74384	251.00499	5.62521	0.0650022	0.22067592	2.7120608	20	1 28.9	20.0
221339 2005 WO_{25}	16.7	X	111.07362	31.53065	315.05152	2.98362	0.1068160	0.21138902	2.7909224	20	—	—
221340 2005 WU_{33}	16.2	X	210.56938	322.39243	62.36217	6.13822	0.2752641	0.23813902	2.5777987	20	4 29.6	20.8
221341 2005 WQ_{37}	16.2	X	89.71899	125.60846	199.38585	1.25196	0.0652304	0.20087042	2.8875226	20	—	—
221342 2005 WS_{58}	15.5	X	165.02961	293.62769	236.04850	6.61897	0.0907093	0.18008019	3.1056947	20	9 13.3	20.4
221343 2005 WT_{58}	16.0	X	42.88837	333.40433	119.57614	7.20137	0.1340899	0.21246574	2.7814854	20	1 10.9	19.1
221344 2005 WS_{70}	16.1	X	24.96738	205.98103	241.64287	3.17990	0.0340300	0.21293742	2.7773763	20	—	—
221345 2005 WE_{81}	15.8	X	123.30568	160.30061	56.98389	1.96699	0.1285990	0.18409775	3.0603450	20	10 4.7	20.6
221346 2005 WG_{85}	16.3	X	40.19626	269.66123	210.27376	6.50647	0.1338867	0.22395508	2.6855224	20	2 6.9	19.3
221347 2005 WZ_{85}	16.4	X	155.62992	128.32683	217.66940	2.11936	0.1080817	0.22061408	2.7125676	20	1 22.5	20.3
221348 2005 WN_{89}	16.3	X	208.27064	122.40983	237.54231	3.61218	0.3477631	0.23624651	2.5915471	20	3 25.8	21.2
221349 2005 WJ_{96}	15.3	X	111.22182	171.96331	83.10482	11.71538	0.1226614	0.18993841	2.9972814	20	11 9.8	20.0
221350 2005 WQ_{103}	15.1	X	140.33449	239.41978	234.56019	33.58027	0.0618893	0.23677043	2.5877227	20	6 8.5	19.0
221351 2005 WN_{108}	16.3	X	162.61927	168.43338	186.62491	1.69174	0.1006614	0.22414800	2.6839812	20	2 8.9	20.4
221352 2005 WU_{110}	16.1	X	210.84310	218.57183	85.38349	2.58533	0.0606671	0.22104667	2.7090274	20	1 28.2	20.1
221353 2005 WL_{114}	16.5	X	126.84538	51.00786	334.01679	3.28827	0.1561448	0.22155517	2.7048807	20	2 14.4	20.3
221354 2005 WR_{118}	16.6	X	137.15592	344.64350	10.46208	3.49916	0.1724743	0.21958176	2.7210626	20	1 22.8	20.6
221355 2005 WS_{119}	16.1	X	19.47893	248.25719	234.64537	7.52307	0.2409631	0.21486705	2.7607230	20	1 2.2	18.4
221356 2005 WM_{129}	16.0	X	93.41342	75.32440	246.09802	6.00956	0.1215963	0.20440264	2.8541604	20	—	—
221357 2005 WL_{133}	16.9	X	126.11690	10.26139	287.48361	1.02068	0.0420048	0.20273477	2.8697929	20	—	—
221358 2005 WN_{140}	15.5	X	293.13713	126.10088	279.65765	8.32897	0.0465543	0.18238719	3.0794500	20	9 12.9	19.8
221359 2005 WM_{148}	15.5	X	178.24561	249.60182	78.79059	15.74421	0.1264083	0.22427455	2.6829715	20	1 27.7	19.9
221360 2005 WZ_{151}	16.0	X	228.21635	330.31293	15.15398	3.35215	0.1598734	0.23543212	2.5975200	20	3 31.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221361 2005 WQ_{154}	15.8	X	177.53626	246.59017	74.88891	4.60361	0.0338490	0.21565661	2.7539806	20	1 12.3	19.6
221362 2005 WC_{158}	15.2	X	23.90937	188.40969	99.82574	5.29186	0.1778011	0.17526824	3.1622817	20	9 10.7	19.0
221363 2005 WC_{159}	15.7	X	238.96983	194.54921	128.08025	15.15879	0.1690344	0.23322259	2.6139000	20	3 17.2	20.0
221364 2005 WR_{159}	16.9	X	46.12526	280.72321	213.85739	1.71537	0.0263896	0.22414630	2.6839948	20	3 1.7	20.5
221365 2005 WD_{161}	16.3	X	104.04319	122.88083	271.47238	6.79959	0.2971597	0.21969582	2.7201208	20	2 16.3	20.3
221366 2005 WH_{164}	15.6	X	349.82839	313.09185	230.14704	8.22963	0.1994051	0.22225344	2.6992124	20	1 26.6	18.6
221367 2005 WF_{167}	16.9	X	111.69903	28.65737	294.57090	1.01524	0.0597369	0.20604247	2.8389967	20	—	—
221368 2005 WO_{182}	15.6	X	105.50100	123.47825	322.67709	15.02089	0.1380016	0.22929063	2.6436980	20	3 26.8	19.5
221369 2005 WB_{183}	15.9	X	115.56961	284.08527	117.03989	12.12222	0.0688995	0.22355421	2.6887317	20	2 10.6	19.6
221370 2005 WK_{195}	15.1	X	19.39444	303.86460	70.00415	11.27511	0.1110403	0.19679236	2.9272775	20	12 15.3	19.0
221371 2005 XU	16.1	X	198.77282	227.63133	169.49912	7.86958	0.1971210	0.23754331	2.5821066	20	5 8.4	20.5
221372 2005 XN_{6}	15.9	X	253.56517	307.19429	36.11064	5.53663	0.3058592	0.24165833	2.5527103	20	4 9.8	20.3
221373 2005 XV_{6}	16.4	X	155.77948	157.29619	241.89668	1.63855	0.1121710	0.22835879	2.6508850	20	3 27.4	20.4
221374 2005 XH_{54}	16.9	X	132.55003	98.23663	294.76798	1.69448	0.0918860	0.22314430	2.6920235	20	2 21.9	20.6
221375 2005 XF_{55}	16.2	X	81.05701	1.23617	43.93969	5.05768	0.1120096	0.21456773	2.7632899	20	1 7.6	19.6
221376 2005 XL_{56}	16.9	X	87.70824	143.03101	293.57503	6.95409	0.1847751	0.28770059	2.2725261	20	2 24.0	19.3
221377 2005 XD_{62}	16.6	X	102.46838	225.82638	195.65942	2.86368	0.1011845	0.22072413	2.7116659	20	2 22.6	20.1
221378 2005 XZ_{66}	16.8	X	111.94966	42.46224	41.67108	7.93278	0.2925533	0.22419726	2.6835880	20	4 27.5	21.1
221379 2005 XY_{81}	16.1	X	193.24343	317.25936	177.37502	1.58754	0.0441931	0.18282749	3.0745039	20	9 5.4	20.6
221380 2005 XV_{84}	14.5	X	131.21395	227.94262	301.05848	14.99488	0.0662572	0.17096126	3.2151722	20	8 6.8	19.4
221381 2005 XD_{88}	15.2	X	89.62071	312.55021	269.81572	4.28893	0.1201480	0.17469493	3.1691966	20	9 1.5	19.9
221382 2005 YE_{2}	16.6	X	135.11366	29.24239	308.62301	3.97607	0.0802625	0.21382093	2.7697203	20	—	—
221383 2005 YP_{10}	17.1	X	74.85381	293.02538	119.87466	1.70099	0.0647868	0.21399605	2.7682090	20	1 2.3	20.4
221384 2005 YA_{16}	16.5	X	299.15254	204.63772	272.36380	1.34037	0.0370164	0.19377379	2.9575995	20	12 26.9	20.5
221385 2005 YS_{17}	16.7	X	96.66190	190.76948	140.70841	2.84749	0.1057787	0.20619824	2.8375667	20	—	—
221386 2005 YE_{23}	15.4	X	153.13235	72.89420	107.19054	6.04342	0.1215217	0.17744460	3.1363717	20	9 19.6	20.4
221387 2005 YO_{27}	15.1	X	336.39456	270.43431	102.54502	12.30527	0.0376944	0.18277223	3.0751236	20	10 12.3	19.4
221388 2005 YB_{34}	16.6	X	174.51664	154.17195	219.84486	0.28124	0.1824064	0.22391893	2.6858114	20	3 18.9	21.0
221389 2005 YF_{34}	15.5	X	233.80072	226.42661	293.93364	6.21026	0.0679205	0.18920458	3.0050264	20	11 20.4	19.8
221390 2005 YS_{34}	16.2	X	277.62921	299.76998	170.06744	2.65943	0.1181479	0.18913707	3.0057414	20	11 9.5	19.9
221391 2005 YX_{35}	15.7	X	85.30094	99.23937	138.37365	1.92410	0.1199340	0.17527568	3.1621923	20	9 18.2	20.2
221392 2005 YF_{39}	15.6	X	75.39652	118.43344	320.68429	11.70643	0.1767537	0.21534972	2.7565964	20	2 19.6	19.0
221393 2005 YZ_{42}	15.2	X	347.12032	225.37895	116.24400	17.38334	0.0900811	0.17933233	3.1143230	20	9 17.2	19.4
221394 2005 YS_{51}	16.8	X	353.90580	266.86789	189.79529	1.74275	0.0287821	0.20276374	2.8695195	20	—	—
221395 2005 YK_{55}	16.6	X	328.58986	131.03665	279.30561	1.78810	0.0858244	0.18925186	3.0045258	20	11 11.9	20.3
221396 2005 YJ_{56}	15.4	X	202.95472	17.12702	141.47604	3.30815	0.1253285	0.18281073	3.0746918	20	10 10.5	20.1
221397 2005 YQ_{56}	17.0	X	355.45180	250.35937	298.49236	0.99563	0.0171306	0.22572057	2.6715007	20	3 3.6	20.3
221398 2005 YL_{58}	15.7	X	77.74701	116.51365	172.89342	1.99683	0.0752547	0.18466791	3.0540427	20	11 7.5	20.0
221399 2005 YN_{63}	15.9	X	40.99794	221.86351	81.52749	3.49056	0.2065629	0.18460945	3.0546873	20	10 30.3	19.9
221400 2005 YX_{67}	15.7	X	17.08821	263.47945	82.74811	5.30747	0.0753608	0.18676328	3.0311566	20	11 2.6	19.7
221401 2005 YO_{68}	15.9	X	133.49565	202.90908	16.01737	1.64317	0.1044536	0.18167509	3.0874916	20	10 14.2	20.7
221402 2005 YW_{71}	15.2	X	104.47961	213.46520	342.04745	4.76477	0.0782204	0.17332644	3.1858562	20	8 13.8	19.8
221403 2005 YV_{79}	16.7	X	257.28250	151.18079	348.26297	1.38065	0.0913166	0.19088158	2.9874000	20	11 21.8	20.7
221404 2005 YE_{82}	15.7	X	24.18796	108.64230	208.50955	1.27365	0.0390673	0.18090764	3.0962174	20	9 29.4	19.7
221405 2005 YW_{91}	15.3	X	28.84305	209.26056	111.85422	12.56060	0.2161234	0.18482881	3.0522699	20	11 10.2	19.4
221406 2005 YK_{97}	16.4	X	58.25410	347.77106	28.46151	2.33567	0.0806507	0.20143927	2.8820839	20	—	—
221407 2005 YK_{106}	15.7	X	104.36518	118.74905	196.27218	1.50983	0.0772904	0.19776804	2.9176419	20	—	—
221408 2005 YZ_{120}	14.9	X	136.38274	279.21043	304.57375	8.54694	0.0477198	0.18261776	3.0768575	20	10 16.9	19.7
221409 2005 YF_{122}	16.1	X	247.79932	108.96979	1.47528	2.58013	0.1378077	0.18420035	3.0592086	20	9 27.6	20.6
221410 2005 YL_{122}	15.2	X	8.11292	288.21551	76.87696	10.78904	0.0838756	0.19140404	2.9819611	20	11 16.0	19.1
221411 2005 YB_{124}	15.6	X	227.44742	149.18767	335.13635	4.04501	0.1580012	0.18263078	3.0767112	20	9 18.7	20.2
221412 2005 YG_{124}	15.9	X	48.38654	25.27920	72.12635	5.81017	0.0739583	0.21366002	2.7711107	20	1 23.3	19.3
221413 2005 YZ_{130}	15.4	X	351.96458	47.00063	307.27186	9.51798	0.1192615	0.18103914	3.0947178	20	10 1.5	19.3
221414 2005 YN_{134}	14.9	X	149.47488	194.96080	323.29189	9.13240	0.0790466	0.17387447	3.1791584	20	8 16.3	19.8
221415 2005 YA_{138}	15.3	X	47.46491	229.04044	84.74374	5.65065	0.0957422	0.18602228	3.0392009	20	11 5.2	19.5
221416 2005 YJ_{143}	15.8	X	351.66611	351.18782	98.25631	3.35922	0.0684529	0.19810163	2.9143655	20	—	—
221417 2005 YA_{144}	15.4	X	34.03887	241.30914	65.78066	2.02850	0.1015924	0.17820212	3.1274771	20	10 8.7	19.4
221418 2005 YJ_{164}	16.5	X	234.65562	214.92963	304.83125	0.70528	0.0815204	0.19337815	2.9616321	20	11 20.8	20.6
221419 2005 YC_{172}	14.9	X	192.93551	165.71982	349.02014	16.89318	0.1396024	0.17987169	3.1080942	20	9 21.3	19.8
221420 2005 YE_{172}	14.8	X	209.47355	122.70032	330.30875	26.30846	0.1114398	0.17317083	3.1877645	20	8 3.6	19.9
221421 2005 YS_{173}	14.8	X	273.13803	157.02546	296.18277	15.60674	0.0827480	0.18319090	3.0704365	20	10 7.4	19.4
221422 2005 YT_{173}	15.2	X	315.14793	167.59085	285.95641	10.93609	0.0759421	0.19090151	2.9871920	20	12 17.9	18.9
221423 2005 YF_{177}	15.7	X	36.23415	231.26152	105.85647	2.64539	0.0822196	0.18800711	3.0177728	20	11 17.1	19.7
221424 2005 YV_{195}	16.8	X	115.45817	160.06761	257.72185	0.82150	0.2068813	0.22112488	2.7083886	20	3 19.1	20.8
221425 2005 YA_{196}	16.3	X	82.84894	39.05838	8.60732	8.35512	0.1356083	0.21640241	2.7476494	20	1 18.0	19.8
221426 2005 YZ_{207}	16.4	X	49.76735	81.11580	318.67390	1.17962	0.0762033	0.20096627	2.8866044	20	—	—
221427 2005 YD_{216}	16.4	X	54.18695	338.47475	342.10136	3.33283	0.0519453	0.18929235	3.0040974	20	11 13.6	20.6
221428 2005 YD_{221}	14.4	X	221.60588	201.68475	276.35581	26.26439	0.1083165	0.17603379	3.1531068	20	8 26.1	19.7
221429 2005 YD_{223}	16.0	X	36.20773	330.38595	62.26767	2.89193	0.0766153	0.20117619	2.8845960	20	—	—
221430 2005 YF_{230}	16.3	X	7.95551	71.16085	345.51969	1.34908	0.0601283	0.20226037	2.8742785	20	—	—
221431 2005 YZ_{234}	16.1	X	30.09262	269.11342	71.77241	2.49716	0.0951452	0.18838941	3.0136888	20	11 15.2	20.1
221432 2005 YV_{237}	16.1	X	123.50960	326.53407	238.83661	3.38450	0.1179586	0.17460455	3.1702901	20	9 16.6	21.1
221433 2005 YY_{271}	16.6	X	120.63961	110.76002	204.05148	3.06443	0.0293187	0.19791965	2.9161517	20	—	—
221434 2005 YL_{273}	15.4	X	88.17214	348.96910	245.99806	3.90035	0.1070291	0.17299527	3.1899208	20	9 13.8	20.1
221435 2006 AL_{6}	15.8	X	221.77893	184.58959	339.97427	5.01050	0.1822445	0.18522558	3.0479096	20	10 27.9	20.7
221436 2006 AH_{7}	14.9	X	318.11670	11.50565	356.21607	9.54160	0.0701989	0.17645118	3.1481325	20	9 2.5	18.9
221437 2006 AQ_{15}	15.6	X	148.06317	354.88167	159.26244	1.11275	0.1113960	0.17037243	3.2225760	20	8 10.5	20.5
221438 2006 AK_{18}	16.3	X	312.61644	237.04692	200.96008	0.85276	0.1604576	0.18958764	3.0009772	20	11 19.9	19.5
221439 2006 AC_{21}	15.8	X	327.71568	60.85145	8.60080	10.96055	0.1796132	0.19204241	2.9753493	20	12 5.5	19.2
221440 2006 AE_{21}	15.4	X	106.59412	343.20580	72.30763	10.57758	0.1591363	0.21581455	2.7526367	20	3 6.6	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221441 2006 AC_{22}	14.7	X	5.84682	256.50048	84.88329	17.59358	0.1205558	0.17906287	3.1174466	20	10 21.7	18.9
221442 2006 AH_{34}	16.6	X	75.99803	319.44554	15.46347	2.32649	0.0911534	0.19368489	2.9585044	20	—	—
221443 2006 AJ_{38}	15.0	X	113.44012	142.39663	75.71337	9.29378	0.0900619	0.17769622	3.1334102	20	9 26.4	19.8
221444 2006 AT_{38}	16.7	X	348.80720	239.38076	164.69770	0.09830	0.0947729	0.19129381	2.9831066	20	12 6.2	20.5
221445 2006 AM_{63}	16.2	X	9.24843	156.53932	239.43739	0.90650	0.0961027	0.19453360	2.9498933	20	12 26.7	20.1
221446 2006 AJ_{72}	16.3	X	295.68332	203.96194	268.38428	2.45504	0.1705826	0.19263719	2.9692217	20	12 4.9	19.7
221447 2006 AJ_{75}	15.1	X	155.59193	17.32862	144.00351	9.59340	0.1218718	0.17191988	3.2032093	20	8 27.7	20.2
221448 2006 AP_{81}	14.7	X	227.25866	132.16504	16.72824	18.87165	0.1061286	0.17958003	3.1114586	20	10 21.6	19.3
221449 2006 AB_{87}	15.1	X	228.85654	287.75690	169.32028	10.14484	0.0636254	0.17611783	3.1521037	20	8 27.5	19.8
221450 2006 AG_{100}	15.6	X	144.47124	37.10950	153.47768	5.48319	0.0824005	0.17442131	3.1725102	20	9 20.7	20.4
221451 2006 BC_{1}	16.0	X	188.97095	52.30029	9.70752	12.17939	0.2932363	0.23887960	2.5724682	20	5 24.7	20.9
221452 2006 BN_{1}	15.7	X	4.72712	290.92111	114.56838	2.99538	0.0617718	0.19199204	2.9758696	20	12 27.5	19.4
221453 2006 BP_{2}	14.6	X	201.86128	200.02561	281.76035	14.93193	0.0297655	0.17438039	3.1730064	20	8 23.8	19.4
221454 2006 BW_{8}	15.3	X	73.68327	350.83847	247.23928	8.35936	0.0262888	0.17630888	3.1498262	20	8 18.5	20.0
221455 2006 BC_{10}	19.4	X	311.29922	234.03583	21.23939	0.92770	0.6582469	0.34462925	2.0148124	20	—	—
221456 2006 BA_{13}	15.7	X	218.98722	317.55086	161.72386	1.73236	0.1541535	0.17748124	3.1359400	20	9 4.7	20.6
221457 2006 BD_{46}	15.7	X	320.60382	47.08304	337.27552	0.76529	0.1333571	0.17698216	3.1418326	20	9 21.9	19.3
221458 2006 BD_{57}	15.2	X	190.23595	356.12557	140.27255	10.36263	0.0410675	0.17451276	3.1714018	20	9 5.2	19.8
221459 2006 BD_{66}	15.9	X	71.81674	19.58915	83.96776	2.99506	0.0274873	0.21456521	2.7633115	20	2 28.7	19.6
221460 2006 BN_{66}	15.2	X	79.36670	280.37985	327.72119	6.68226	0.0942151	0.17319022	3.1875265	20	9 18.2	19.7
221461 2006 BG_{78}	15.9	X	344.87093	201.76245	120.21286	2.12999	0.1874487	0.17180826	3.2045965	20	8 10.4	19.1
221462 2006 BZ_{82}	15.8	X	348.51784	301.77183	161.60103	2.45987	0.0411676	0.19968938	2.8988966	20	—	—
221463 2006 BL_{86}	16.0	X	302.46439	61.31156	336.37348	7.32121	0.1640069	0.18020086	3.1043081	20	9 5.5	19.8
221464 2006 BP_{87}	15.6	X	334.10783	261.66136	120.33985	6.50709	0.1755143	0.18274825	3.0753926	20	10 16.9	19.0
221465 Rapa Nui	15.1	X	307.48842	60.49481	330.46944	16.59257	0.1677050	0.17666644	3.1455748	20	9 2.2	18.8
221466 2006 BG_{118}	16.1	X	248.26977	290.09076	157.56902	11.53571	0.2370804	0.17839631	3.1252071	20	8 16.8	21.0
221467 2006 BX_{124}	15.6	X	173.00373	59.11200	124.72027	2.92901	0.0724055	0.17602290	3.1532369	20	10 12.6	20.3
221468 2006 BJ_{135}	16.4	X	222.68761	114.76448	40.58630	1.08843	0.1210875	0.18345347	3.0675060	20	10 26.3	21.0
221469 2006 BW_{141}	15.1	X	304.48538	135.72289	155.53140	15.00046	0.0293183	0.15439602	3.4412164	20	5 14.1	20.1
221470 2006 BS_{143}	15.6	X	330.99627	255.47457	140.58516	13.77397	0.1410126	0.18711045	3.0274061	20	11 2.5	19.3
221471 2006 BH_{147}	15.5	X	196.23155	332.79647	156.47800	12.91069	0.1261740	0.17412383	3.1761225	20	8 27.2	20.6
221472 2006 BX_{148}	15.1	X	322.77139	286.45450	116.03106	13.78933	0.0503959	0.18345227	3.0675195	20	10 30.5	19.4
221473 2006 BY_{152}	14.9	X	292.62682	267.44482	132.11855	21.97209	0.1217852	0.17615712	3.1516351	20	8 31.9	19.1
221474 2006 BP_{157}	15.5	X	240.89875	38.51470	107.03244	1.70801	0.1271950	0.18220300	3.0815251	20	11 3.3	19.9
221475 2006 BK_{183}	15.4	X	25.99003	240.08510	144.17473	11.81646	0.0567451	0.19205951	2.9751726	20	12 28.8	19.6
221476 2006 BO_{191}	16.2	X	154.50400	185.40174	31.18273	1.88666	0.0789674	0.18500019	3.0503845	20	11 1.4	20.8
221477 2006 BD_{220}	15.1	X	36.45640	359.22892	337.82275	4.18528	0.1487714	0.18459051	3.0548963	20	11 24.3	19.3
221478 2006 BC_{234}	16.4	X	314.49191	44.51148	10.56882	1.97927	0.0738582	0.18491503	3.0513211	20	10 27.3	20.4
221479 2006 BW_{247}	16.0	X	278.68773	274.51534	121.78841	2.32931	0.1537382	0.17221082	3.1996005	20	7 31.1	20.2
221480 2006 BN_{250}	16.1	X	255.54060	80.23717	26.38701	1.04835	0.1453967	0.18131213	3.0916108	20	9 30.9	20.3
221481 2006 BN_{252}	16.3	X	349.76288	247.96400	152.73146	2.67769	0.0538054	0.18861766	3.0112569	20	11 30.2	20.2
221482 2006 BT_{253}	15.8	X	241.02454	117.03840	328.25928	0.86176	0.0695745	0.17372608	3.1809685	20	8 27.1	20.4
221483 2006 BD_{264}	15.7	X	269.85041	309.99830	87.06824	2.84112	0.1599730	0.16840566	3.2476178	20	7 19.7	20.4
221484 2006 BB_{265}	15.6	X	287.91783	10.05298	16.60642	2.71525	0.1762912	0.16985075	3.2291712	20	7 28.6	19.9
221485 2006 BX_{268}	15.1	X	351.80507	62.00529	347.34194	8.71217	0.1204341	0.19017839	2.9947594	20	12 19.3	18.9
221486 2006 BB_{271}	15.3	X	293.56769	249.42419	143.05120	10.73968	0.1169294	0.17690608	3.1427334	20	8 22.6	19.3
221487 2006 BT_{279}	15.8	X	80.07506	214.50468	180.97793	1.86815	0.0733936	0.20355542	2.8620745	20	—	—
221488 2006 CB	15.5	X	244.70492	132.55496	334.17116	7.91535	0.1929123	0.18052792	3.1005576	20	9 10.6	20.1
221489 2006 CP_{9}	16.4	X	248.18044	309.52331	154.48377	2.05166	0.1293839	0.17967137	3.1104039	20	9 21.0	20.8
221490 2006 CO_{13}	15.9	X	238.29596	69.18911	3.13042	0.11248	0.0161412	0.17067243	3.2187986	20	8 14.4	20.4
221491 2006 CX_{21}	15.6	X	234.14157	140.02492	350.84363	16.80814	0.1898596	0.18039554	3.1020742	20	9 27.3	20.5
221492 2006 CQ_{22}	15.8	X	29.48994	46.14741	36.06925	2.18510	0.0590567	0.19816991	2.9136960	20	—	—
221493 2006 CC_{41}	15.1	X	185.41716	274.88888	222.24181	4.12903	0.1210267	0.17057934	3.2199695	20	8 24.6	20.2
221494 2006 CJ_{48}	15.8	X	129.82266	46.89848	166.55394	2.58626	0.0930893	0.17427510	3.1742843	20	10 3.1	20.6
221495 2006 CK_{56}	15.9	X	214.58145	317.24962	168.52567	0.68559	0.1321570	0.17658827	3.1465029	20	9 10.0	20.6
221496 2006 CV_{61}	15.1	X	254.01767	98.51463	350.38466	16.75251	0.1375254	0.17740824	3.1368002	20	9 8.4	19.4
221497 2006 DW_{3}	15.4	X	223.78316	170.22165	324.96228	2.35081	0.1182308	0.17773970	3.1328992	20	10 1.7	20.1
221498 2006 DH_{4}	15.3	X	334.46202	256.72680	161.42334	9.47985	0.1430032	0.18500177	3.0503672	20	12 3.5	19.0
221499 2006 DL_{21}	15.3	X	271.81543	59.63887	10.89598	13.49885	0.1030725	0.17785931	3.1314944	20	9 15.2	19.6
221500 2006 DU_{23}	15.8	X	209.16446	85.43513	42.62675	1.77242	0.1405868	0.17393275	3.1784482	20	9 7.2	20.8
221501 2006 DV_{42}	15.7	X	291.54650	228.04239	153.06973	7.63750	0.1519484	0.17007312	3.2263559	20	7 28.6	20.0
221502 2006 DS_{49}	14.6	X	292.86831	54.11803	7.61271	10.11146	0.0726020	0.17762245	3.1342777	20	10 3.4	18.7
221503 2006 DE_{60}	16.1	X	11.28638	184.13499	236.23287	0.63107	0.2185219	0.19055547	2.9908074	20	—	—
221504 2006 DE_{64}	14.6	X	5.53690	343.96262	28.15384	11.97646	0.1492236	0.18379250	3.0637326	20	11 22.1	18.4
221505 2006 DR_{66}	15.0	X	202.89834	325.37526	189.30781	11.28128	0.1508218	0.17699477	3.1416835	20	10 1.8	19.9
221506 2006 DX_{66}	15.2	X	241.98228	157.85127	321.23745	16.09351	0.1541838	0.17825029	3.1269136	20	9 21.3	20.0
221507 2006 DE_{102}	14.5	X	148.02727	275.62978	46.99257	3.13657	0.1279690	0.12611194	3.9382073	20	1 3.6	20.4
221508 2006 DB_{134}	15.7	X	318.35666	311.94203	83.54861	3.54117	0.0768586	0.17687671	3.1430813	20	10 8.4	19.7
221509 2006 DE_{207}	15.9	X	159.13058	62.49767	353.15528	5.98974	0.0607767	0.21523406	2.7575838	20	4 16.9	20.0
221510 2006 EV_{8}	16.4	X	289.42380	62.13097	6.00700	6.08788	0.2025140	0.17905776	3.1175059	20	9 20.0	20.1
221511 2006 EG_{14}	15.9	X	295.22074	253.44716	176.71366	3.77752	0.1764079	0.17932467	3.1144117	20	10 5.9	19.7
221512 2006 EY_{36}	16.0	X	290.66460	47.20440	43.98720	1.63185	0.2413067	0.18473049	3.0533528	20	10 17.4	19.6
221513 2006 GY_{49}	14.5	X	146.96207	356.78976	276.12060	14.09226	0.2397842	0.17685328	3.1433589	20	12 27.1	19.8
221514 2006 HO_{4}	15.4	X	213.30309	288.90695	204.89469	4.64118	0.1434377	0.17276165	3.1927959	20	9 15.9	20.5
221515 2006 HX_{150}	16.1	X	123.38975	320.53283	48.42060	2.65235	0.2044410	0.19172496	2.9786327	20	2 1.4	20.5
221516 Bergen–Enkheim	17.2	X	290.13534	208.62727	259.16923	17.91779	0.1148675	0.36969491	1.9226803	20	—	—
221517 2006 RB_{46}	17.5	X	236.63840	339.64924	166.79017	5.32832	0.0902513	0.28903560	2.2655231	20	11 28.3	20.1
221518 2006 RT_{53}	18.1	X	166.85227	233.37947	121.66341	1.37676	0.0836188	0.31836776	2.1241409	20	1 31.3	20.8
221519 2006 RO_{90}	18.0	X	86.65533	219.08211	185.94834	5.11157	0.0861874	0.31120005	2.1566332	20	—	—
221520 2006 SS_{24}	17.2	X	110.39584	335.78320	319.41019	6.48774	0.1448464	0.29864116	2.2166797	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221521 2006 SB_{140}	17.9	X	101.86583	100.97833	244.96943	5.90921	0.1774589	0.30533055	2.1841839	20	—	—
221522 2006 SK_{154}	17.0	X	128.69084	13.96245	23.75213	4.56156	0.1406675	0.31519744	2.1383605	20	2 21.4	19.5
221523 2006 SA_{161}	17.5	X	201.86746	192.20023	87.97578	2.42915	0.1705498	0.31295652	2.1485562	20	—	—
221524 2006 SJ_{224}	17.2	X	78.02634	209.27025	197.75747	5.75759	0.1336702	0.30729799	2.1748513	20	—	—
221525 2006 SO_{312}	17.7	X	161.84218	243.11022	25.85609	4.37378	0.1347782	0.29848023	2.2174764	20	—	—
221526 2006 SN_{362}	17.3	X	160.01337	20.52872	179.45811	3.25570	0.1534278	0.28034645	2.3120968	20	10 30.9	20.7
221527 2006 SD_{411}	15.6	X	188.86914	216.35115	99.14995	22.78853	0.0357594	0.22619392	2.6677723	20	1 15.9	19.4
221528 2006 TG_{10}	17.9	X	166.61829	225.50847	74.11736	5.41896	0.1785733	0.31072668	2.1588229	20	—	—
221529 2006 TS_{10}	16.8	X	10.11365	289.00915	84.64148	5.93125	0.0572788	0.28542366	2.2845959	20	12 19.5	19.2
221530 2006 TX_{44}	17.6	X	144.92810	225.41858	55.12499	5.98635	0.1635584	0.29762297	2.2217324	20	—	—
221531 2006 TR_{51}	17.1	X	16.85266	299.95062	76.71508	4.42250	0.1323008	0.28867249	2.2674225	20	—	—
221532 2006 TH_{60}	17.3	X	130.28938	259.10480	19.82937	6.08719	0.1634726	0.29402370	2.2398271	20	—	—
221533 2006 TX_{72}	17.3	X	62.24590	34.01438	3.95125	4.83880	0.1329844	0.30316154	2.1945896	20	—	—
221534 2006 TQ_{80}	16.8	X	179.45024	253.12029	305.31179	4.52993	0.0828482	0.28540447	2.2846984	20	11 22.6	19.9
221535 2006 TU_{80}	17.2	X	110.35441	321.14273	329.46003	4.23785	0.1619298	0.29433564	2.2382443	20	—	—
221536 2006 TS_{81}	17.7	X	161.51456	332.55277	331.38224	3.41474	0.1309244	0.30659451	2.1781768	20	—	—
221537 2006 TZ_{83}	17.6	X	170.59911	349.07124	316.91637	3.21935	0.1720946	0.31045759	2.1600702	20	—	—
221538 2006 TC_{86}	16.7	X	89.63619	352.07419	355.09957	3.59272	0.1415334	0.29980411	2.2109436	20	—	—
221539 2006 TP_{90}	17.4	X	127.53983	114.97827	239.24934	5.07299	0.0466682	0.30631060	2.1795225	20	—	—
221540 2006 TG_{128}	16.5	X	306.01169	242.25350	98.52201	3.46550	0.1972691	0.26181182	2.4199695	20	6 25.2	18.8
221541 2006 UZ_{61}	16.9	X	63.37078	46.86193	231.18143	6.56640	0.1067164	0.28322998	2.2963773	20	10 27.8	20.0
221542 2006 UB_{63}	12.4	X	295.30000	302.31811	140.87109	26.25655	0.0669617	0.08370740	5.1755934	20	10 24.2	19.4
221543 2006 UF_{69}	17.1	X	117.59095	253.52678	82.75653	5.12962	0.1914828	0.30483381	2.1865561	20	—	—
221544 2006 US_{84}	17.7	X	98.44417	27.45909	335.79926	2.80492	0.2013563	0.30493481	2.1860733	20	—	—
221545 2006 UF_{89}	16.9	X	113.01047	5.91384	237.41249	6.21769	0.1462207	0.28181743	2.3040443	20	11 9.2	20.3
221546 2006 UN_{89}	16.9	X	120.26623	243.48436	11.07676	2.69219	0.1209861	0.28479997	2.2879301	20	11 30.3	20.2
221547 2006 UL_{98}	17.7	X	134.97618	207.91130	125.26599	2.78399	0.1830291	0.30757980	2.1735227	20	—	—
221548 2006 UX_{116}	17.5	X	241.40028	4.32525	201.34536	4.78700	0.1085546	0.30122902	2.2039658	20	—	—
221549 2006 US_{126}	17.7	X	130.20272	293.42425	349.19571	3.36193	0.1342618	0.29634326	2.2281240	20	—	—
221550 2006 UJ_{134}	16.9	X	35.59024	1.05355	60.56812	5.40902	0.0982433	0.30082745	2.2059267	20	—	—
221551 2006 UW_{137}	16.2	X	66.31982	135.17173	243.77410	6.91956	0.1287887	0.29998796	2.2100401	20	—	—
221552 2006 UZ_{151}	17.3	X	104.48602	209.74259	155.04435	3.32342	0.1476360	0.30460357	2.1876578	20	—	—
221553 2006 UP_{171}	17.2	X	25.50054	353.13324	91.71686	4.85164	0.0855739	0.30302612	2.1952434	20	—	—
221554 2006 UO_{174}	17.3	X	114.40665	350.74029	335.32034	3.51014	0.1945427	0.30165185	2.2019057	20	—	—
221555 2006 UZ_{175}	17.4	X	194.62107	204.89737	78.73352	3.96681	0.1446880	0.31234194	2.1513736	20	—	—
221556 2006 UG_{180}	16.9	X	355.74103	259.42477	173.69634	6.20493	0.0684098	0.29435715	2.2381352	20	—	—
221557 2006 UY_{181}	17.7	X	148.79161	180.97411	147.86951	5.65348	0.2225770	0.31006525	2.1618920	20	—	—
221558 2006 UV_{198}	17.7	X	25.97822	78.81646	12.57346	3.64732	0.0879156	0.30213609	2.1995524	20	—	—
221559 2006 UD_{237}	17.5	X	236.41944	24.07195	132.74402	1.93649	0.1782867	0.28660171	2.2783312	20	11 26.8	20.2
221560 2006 UF_{267}	16.9	X	302.22671	172.38673	18.58863	5.05108	0.0753517	0.30718454	2.1753867	20	—	—
221561 2006 UL_{275}	17.5	X	183.28963	359.19350	236.70758	3.71156	0.1756992	0.29821576	2.2187872	20	—	—
221562 2006 UF_{281}	17.5	X	25.59592	230.03057	197.60645	2.20398	0.1105514	0.29898839	2.2149631	20	—	—
221563 2006 UC_{287}	17.3	X	105.54730	178.52928	188.99605	2.93938	0.1426127	0.30541438	2.1837842	20	—	—
221564 2006 UU_{287}	17.7	X	152.55411	55.52220	197.86281	4.24444	0.0905120	0.29323155	2.2438591	20	—	—
221565 2006 UK_{288}	16.7	X	78.11252	9.41159	318.22048	6.45412	0.1512922	0.29297934	2.2451467	20	—	—
221566 2006 UZ_{325}	16.6	X	244.13659	285.69382	108.20436	2.22340	0.1821869	0.25531810	2.4608302	20	6 15.4	20.2
221567 2006 UW_{335}	16.8	X	59.66501	34.00591	278.38742	7.20919	0.1477616	0.28743831	2.2739083	20	12 14.6	20.0
221568 2006 VQ_{8}	17.1	X	143.05059	184.92647	113.65996	1.89982	0.0984561	0.29742603	2.2227131	20	—	—
221569 2006 VD_{20}	17.6	X	180.42814	287.91063	250.27612	2.93141	0.0812209	0.27848065	2.3224126	20	10 27.0	20.9
221570 2006 VG_{28}	17.0	X	92.22745	238.12049	37.98156	7.06996	0.1238838	0.28212877	2.3023489	20	11 28.3	20.3
221571 2006 VZ_{42}	17.0	X	12.22382	326.66045	300.14650	2.96082	0.1234866	0.26565343	2.3965828	20	7 23.0	19.1
221572 2006 VR_{50}	17.0	X	50.97372	321.24619	51.74416	8.15295	0.2550980	0.29496847	2.2350418	20	—	—
221573 2006 VN_{58}	17.6	X	77.67359	219.96941	109.59311	2.55130	0.1751575	0.29282025	2.2459598	20	—	—
221574 2006 VX_{61}	18.1	X	48.96058	64.36577	310.51615	0.76485	0.1732052	0.29448511	2.2374868	20	—	—
221575 2006 VX_{64}	17.5	X	132.89992	229.28063	69.62807	5.30328	0.1683742	0.29648612	2.2274081	20	—	—
221576 2006 VA_{73}	17.2	X	353.35939	88.42780	327.46116	4.53111	0.1466374	0.29033249	2.2587715	20	—	—
221577 2006 VP_{73}	16.9	X	88.62075	156.88153	70.48057	3.60296	0.1322901	0.26822943	2.3812140	20	9 23.4	20.2
221578 2006 VQ_{84}	17.4	X	58.69358	139.70425	264.62221	3.50012	0.1461041	0.30123916	2.2039163	20	—	—
221579 2006 VC_{92}	17.0	X	303.34148	154.99360	271.01103	5.68163	0.0875192	0.28161162	2.3051667	20	11 17.0	19.2
221580 2006 VX_{95}	17.4	X	75.71514	323.78324	44.09790	7.62617	0.2550052	0.29951924	2.2123452	20	—	—
221581 2006 VR_{102}	16.6	X	76.30269	263.74034	77.08612	7.38938	0.1553027	0.29385292	2.2406948	20	—	—
221582 2006 VL_{104}	17.5	X	119.64832	34.37906	217.93373	5.73565	0.0749411	0.28699341	2.2762578	20	11 27.3	20.5
221583 2006 VN_{112}	17.5	X	37.86315	51.08740	11.77913	8.23882	0.1607551	0.29965648	2.2116697	20	—	—
221584 2006 VK_{130}	16.8	X	21.66617	204.31482	72.65612	3.87053	0.1709546	0.26957564	2.3732798	20	9 5.7	19.1
221585 2006 VW_{130}	17.0	X	73.29051	256.77388	87.67259	7.97490	0.1626974	0.29457003	2.2370568	20	—	—
221586 2006 VB_{143}	16.7	X	177.89924	268.40026	269.96606	6.15543	0.0500145	0.27699269	2.3307222	20	10 25.1	19.9
221587 2006 VT_{146}	17.3	X	222.61278	348.82125	177.85742	4.63840	0.1149216	0.28306648	2.2972614	20	11 30.8	20.1
221588 2006 VT_{148}	17.3	X	141.02839	356.48940	347.24487	5.33583	0.1742686	0.30897954	2.1669534	20	—	—
221589 2006 VT_{150}	17.9	X	211.45789	307.98915	16.05184	4.19075	0.1415213	0.32003217	2.1167698	20	2 12.3	20.9
221590 2006 VK_{152}	16.8	X	239.77894	268.99874	293.58740	4.69660	0.0913420	0.29562276	2.2317428	20	—	—
221591 2006 VD_{155}	17.6	X	82.49923	120.59753	222.92355	3.33256	0.1912075	0.29639790	2.2278501	20	—	—
221592 2006 VJ_{168}	16.7	X	97.28265	328.43577	50.93900	5.34742	0.2090785	0.30127803	2.2037267	20	—	—
221593 2006 WG_{17}	17.0	X	40.50120	25.74796	1.90798	2.33203	0.0400800	0.29590631	2.2303168	20	—	—
221594 2006 WN_{30}	16.8	X	69.74605	204.99226	199.24901	7.20535	0.1869316	0.30148540	2.2027161	20	—	—
221595 2006 WE_{34}	16.7	X	45.20780	55.98641	203.22300	5.51996	0.1296953	0.26901986	2.3765474	20	9 6.9	19.6
221596 2006 WD_{36}	16.4	X	314.86250	45.45523	149.62853	5.30583	0.1722925	0.23354572	2.6114885	20	—	—
221597 2006 WP_{51}	17.3	X	152.80694	165.94773	58.28638	4.67802	0.1191864	0.28014514	2.3132043	20	11 24.1	20.7
221598 2006 WB_{89}	16.7	X	13.35555	228.93316	330.08034	3.26331	0.1219468	0.24262235	2.5459440	20	4 8.4	19.4
221599 2006 WK_{96}	17.3	X	74.34320	234.84366	55.12577	3.58990	0.1584548	0.28291870	2.2980613	20	12 1.3	20.5
221600 2006 WF_{101}	17.6	X	22.95291	230.19164	148.14389	4.50407	0.1800579	0.29001246	2.2604328	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221601 2006 WG_{108}	16.7	X	357.03428	345.18907	43.31690	4.16457	0.2197664	0.28465706	2.2886958	20	—	—
221602 2006 WE_{113}	16.7	X	4.54140	320.67560	287.75326	6.90254	0.0788981	0.25259484	2.4784856	20	6 5.8	19.4
221603 2006 WS_{118}	17.7	X	351.94534	287.29527	135.75136	2.75085	0.0193188	0.28697624	2.2763485	20	—	—
221604 2006 WP_{123}	16.9	X	216.26229	173.35888	246.05335	2.50234	0.1613554	0.25377114	2.4708207	20	6 21.7	20.5
221605 2006 WJ_{149}	16.6	X	22.94828	53.25903	255.14035	4.95184	0.1003853	0.27284674	2.3542733	20	10 9.0	19.2
221606 2006 WA_{160}	16.9	X	103.89834	106.86581	13.96443	1.92896	0.0840057	0.24163370	2.5528838	20	5 8.8	20.3
221607 2006 WJ_{169}	16.9	X	85.78866	317.24000	274.57324	0.60162	0.1415030	0.26840000	2.3802050	20	9 24.8	20.2
221608 2006 WT_{185}	17.0	X	307.56556	320.05068	173.01587	5.22678	0.0538055	0.29781579	2.2207733	20	—	—
221609 2006 WH_{198}	17.2	X	197.78053	220.18917	168.79898	0.60692	0.1486843	0.24636199	2.5201144	20	4 26.1	21.1
221610 2006 WB_{201}	17.2	X	344.59285	299.88404	26.87460	3.20089	0.1971774	0.26675689	2.3899691	20	9 6.7	18.9
221611 2006 XB_{8}	16.6	X	341.23839	293.18624	102.23426	8.04016	0.1118914	0.28202318	2.3029235	20	12 12.6	18.8
221612 2006 XZ_{8}	16.9	X	326.71808	356.15892	69.62459	3.75216	0.1336791	0.28260761	2.2997475	20	—	—
221613 2006 XQ_{34}	16.5	X	326.07200	71.83616	289.98168	7.63735	0.1624699	0.27150003	2.3620521	20	9 14.1	18.6
221614 2006 XQ_{37}	17.3	X	305.02094	337.54975	104.82161	4.39289	0.1304607	0.27947053	2.3169253	20	12 14.7	19.3
221615 2006 XJ_{38}	16.7	X	13.13412	240.56762	99.62681	11.17535	0.2658839	0.27598368	2.3363995	20	12 9.9	19.3
221616 2006 XX_{38}	16.7	X	299.98330	245.66022	100.63306	5.24775	0.2592364	0.26223062	2.4173922	20	6 11.3	19.0
221617 2006 XO_{43}	15.5	X	218.46703	297.98449	288.20187	10.61303	0.1041754	0.21177358	2.7875427	20	—	—
221618 2006 XT_{46}	16.4	X	309.41573	283.11541	95.00132	12.22369	0.2261356	0.27369264	2.3494199	20	9 8.1	18.4
221619 2006 XH_{48}	17.3	X	352.95665	46.63207	3.67405	3.29418	0.1523284	0.28479000	2.2879835	20	—	—
221620 2006 XZ_{51}	16.5	X	23.18841	258.30889	84.51842	9.54735	0.1613241	0.28167978	2.3047948	20	12 11.3	19.1
221621 2006 XL_{54}	15.4	X	12.20713	19.03000	265.50211	24.09351	0.1916445	0.26599867	2.3945086	20	8 13.9	18.3
221622 2006 XM_{60}	15.7	X	162.88828	325.85358	310.61904	7.42741	0.1114664	0.21372523	2.7705470	20	—	—
221623 2006 XH_{61}	16.7	X	315.24492	243.92902	92.59138	8.25812	0.0859969	0.26114125	2.4241104	20	7 23.5	19.3
221624 2006 XK_{66}	16.8	X	351.38922	281.35914	131.96640	5.97553	0.2022095	0.28556403	2.2838472	20	—	—
221625 2006 XW_{70}	17.3	X	313.70864	218.68207	138.88846	2.87993	0.2226816	0.26639131	2.3921552	20	8 5.1	19.0
221626 2006 YS_{1}	17.0	X	151.96969	76.08925	104.83349	3.51425	0.1765493	0.26235575	2.4166235	20	9 27.7	21.0
221627 2006 YX_{6}	17.2	X	249.36219	301.31018	172.18636	2.27428	0.1598331	0.27628429	2.3347045	20	10 16.5	20.0
221628 Hyatt	14.4	X	139.03596	176.39010	357.75154	32.48025	0.2498948	0.17789091	3.1311236	20	9 9.0	20.0
221629 2006 YP_{17}	17.3	X	298.08040	304.57021	150.72840	2.15394	0.1581105	0.27646260	2.3337005	20	12 18.5	19.0
221630 2006 YA_{35}	16.7	X	282.32400	46.71771	323.72708	5.88827	0.1452996	0.26033071	2.4291395	20	7 9.4	19.6
221631 2006 YV_{47}	17.3	X	264.63075	259.06301	189.11090	2.14591	0.1697112	0.27205856	2.3588181	20	9 30.3	19.7
221632 2006 YX_{51}	17.2	X	332.98187	153.31155	194.39743	1.79823	0.2199498	0.26789189	2.3832138	20	9 10.8	18.5
221633 2007 AJ_{3}	17.0	X	352.51569	325.10630	81.37314	6.47885	0.1465605	0.28345067	2.2951851	20	—	—
221634 2007 AV_{8}	16.7	X	258.51311	189.07303	259.27573	3.39075	0.1022192	0.26721888	2.3872136	20	9 29.6	19.5
221635 2007 AO_{22}	16.9	X	351.88938	4.36914	54.08988	6.26231	0.1468686	0.28256718	2.2999668	20	—	—
221636 2007 AJ_{25}	16.6	X	129.75649	322.37161	191.09773	2.11461	0.0431585	0.25322936	2.4743436	20	7 21.3	19.8
221637 2007 AC_{29}	16.0	X	163.86848	152.94209	146.61147	5.51729	0.0969230	0.21526713	2.7573014	20	—	—
221638 2007 BO_{4}	15.7	X	309.12142	219.46347	329.08486	8.72160	0.0869639	0.21924625	2.7238380	20	—	—
221639 2007 BA_{13}	16.9	X	278.93209	329.86121	49.99012	1.88084	0.1896314	0.26038472	2.4288035	20	7 9.6	19.9
221640 2007 BT_{25}	17.4	X	323.83718	29.50938	344.63034	0.91472	0.1932549	0.26962539	2.3729879	20	10 3.5	19.0
221641 2007 BC_{26}	17.5	X	245.90125	280.71474	114.11359	3.45729	0.1822606	0.25751297	2.4468273	20	6 18.7	21.1
221642 2007 BH_{47}	16.1	X	234.98947	161.28143	50.66972	2.94875	0.0363414	0.20918881	2.8104579	20	—	—
221643 2007 BZ_{47}	16.2	X	166.81481	295.73370	63.99842	3.98498	0.0415603	0.22677434	2.6632184	20	2 16.5	19.9
221644 2007 BQ_{57}	16.3	X	271.15196	103.21129	327.32468	9.44830	0.1132102	0.26558604	2.3969881	20	9 19.7	19.0
221645 2007 BK_{58}	16.9	X	211.65609	101.60128	14.71671	1.34925	0.1418496	0.26144942	2.4222052	20	9 3.3	20.3
221646 2007 BX_{58}	17.3	X	209.98618	291.34154	185.79264	1.63873	0.1678152	0.26098785	2.4250602	20	8 30.1	20.7
221647 2007 BB_{60}	15.6	X	121.68182	164.42557	272.50950	14.00078	0.0799920	0.23538972	2.5978319	20	3 26.4	19.6
221648 2007 BZ_{68}	17.1	X	111.66185	177.92673	300.77286	1.89237	0.1670895	0.24121142	2.5558624	20	5 26.6	20.8
221649 2007 BJ_{74}	16.4	X	170.29598	354.85947	341.05862	6.25901	0.0329622	0.22435021	2.6823682	20	1 21.1	20.2
221650 2007 BD_{75}	16.5	X	199.56864	286.01245	172.38044	13.92517	0.1800477	0.25711429	2.4493560	20	7 23.3	20.6
221651 2007 BE_{75}	16.0	X	169.28258	320.55053	326.61253	3.56735	0.0414264	0.21231776	2.7827776	20	—	—
221652 2007 BM_{78}	17.7	X	282.38469	22.64543	6.46518	0.95208	0.1852987	0.26262765	2.4149552	20	7 29.8	20.5
221653 2007 BJ_{101}	16.8	X	63.71412	259.64131	146.42572	3.72922	0.0812511	0.21685845	2.7437960	20	—	—
221654 2007 CZ	16.5	X	75.32882	316.54395	143.24753	4.15690	0.0571891	0.23022728	2.6365228	20	2 29.4	19.9
221655 2007 CP_{1}	15.4	X	96.60788	109.15427	138.77014	11.19541	0.0636331	0.18846032	3.0129327	20	10 12.3	19.9
221656 2007 CH_{4}	16.9	X	279.09511	3.78785	43.51515	5.97554	0.2197389	0.26496893	2.4007084	20	8 17.7	19.6
221657 2007 CS_{9}	16.5	X	128.25321	257.43742	228.73708	4.74387	0.0702512	0.24735463	2.5133676	20	6 14.6	19.9
221658 2007 CR_{15}	16.3	X	127.78795	79.65758	340.30589	13.70333	0.0823496	0.23576526	2.5950726	20	3 16.6	20.0
221659 2007 CG_{16}	16.2	X	287.40973	223.28676	331.13521	5.27427	0.0459682	0.21807785	2.7335584	20	—	—
221660 2007 CC_{18}	15.4	X	83.15932	168.02604	98.70251	3.37120	0.1565885	0.18701473	3.0284391	20	10 27.7	20.1
221661 2007 CW_{22}	16.3	X	253.91443	74.33458	153.24307	4.05558	0.0338097	0.21807695	2.7335659	20	—	—
221662 2007 CC_{24}	16.0	X	275.88402	41.16208	152.28396	12.26503	0.0566731	0.21421019	2.7663638	20	—	—
221663 2007 CJ_{40}	16.9	X	216.18121	307.75905	138.24616	2.88970	0.1493858	0.25799075	2.4438055	20	7 28.1	20.6
221664 2007 CK_{40}	15.3	X	106.25390	290.60793	320.36493	9.73668	0.1569171	0.18928888	3.0041341	20	10 26.1	20.3
221665 2007 CE_{42}	16.3	X	1.96929	45.95109	224.49332	0.37598	0.1418902	0.17185699	3.2039907	20	7 2.2	19.9
221666 2007 CG_{42}	16.5	X	123.22765	175.12717	142.71206	2.27653	0.0739811	0.20907487	2.8114789	20	—	—
221667 2007 CP_{47}	17.0	X	197.80579	152.43427	335.93007	1.68809	0.1410636	0.25900813	2.4374017	20	9 3.6	20.6
221668 2007 CU_{51}	16.6	X	144.47058	22.36255	123.85622	5.01765	0.0697954	0.25113473	2.4880830	20	7 31.9	19.9
221669 2007 CP_{52}	15.2	X	64.26329	153.71093	331.12114	17.12193	0.1023126	0.23026852	2.6362080	20	3 16.7	18.6
221670 2007 CB_{56}	16.7	X	292.26996	259.33613	169.00146	3.36246	0.1567578	0.26925754	2.3751487	20	10 23.5	18.8
221671 2007 CW_{56}	15.0	X	148.29578	173.66543	355.28070	9.73229	0.1303619	0.18080664	3.0973703	20	9 1.1	19.9
221672 2007 CW_{63}	16.1	X	203.14741	111.21252	150.90724	4.55944	0.0117046	0.21325198	2.7746445	20	—	—
221673 2007 DP	16.6	X	128.37826	156.49376	184.02835	5.81030	0.0687957	0.21347626	2.7727007	20	—	—
221674 2007 DY_{1}	16.7	X	339.72700	30.02915	44.73168	8.23836	0.3245449	0.28439700	2.2900908	20	—	—
221675 2007 DU_{3}	16.5	X	162.16651	246.90304	166.33963	13.58394	0.1141668	0.23825579	2.5769564	20	4 24.6	20.5
221676 2007 DP_{4}	15.5	X	121.73549	86.19991	348.85948	21.93210	0.0438558	0.22932173	2.6434590	20	3 22.2	19.1
221677 2007 DG_{9}	16.4	X	206.47327	38.39064	338.49411	5.47162	0.0740381	0.23705387	2.5856596	20	4 19.4	20.3
221678 2007 DL_{10}	15.8	X	259.03518	314.10092	156.18512	9.30460	0.0512829	0.19184823	2.9773566	20	10 28.1	20.0
221679 2007 DH_{11}	15.9	X	164.62842	221.64483	342.77571	6.22416	0.1461900	0.18802264	3.0176066	20	10 24.9	20.9
221680 2007 DZ_{18}	16.0	X	50.81122	133.78480	145.18737	1.04833	0.1968363	0.17965145	3.1106339	20	10 9.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221681 2007 DY_{19}	15.9	X	299.80352	207.03646	341.82029	10.40770	0.0437557	0.21611673	2.7500703	20	—	—
221682 2007 DK_{22}	16.8	X	160.54721	220.66377	164.87014	2.81864	0.1198409	0.23045645	2.6347746	20	3 16.7	20.7
221683 2007 DB_{23}	16.8	X	127.95105	17.74130	286.09937	0.94635	0.0492408	0.20415677	2.8564515	20	—	—
221684 2007 DS_{25}	16.3	X	52.41311	343.21556	18.93957	2.67138	0.1640528	0.20189226	2.8777712	20	—	—
221685 2007 DL_{26}	16.3	X	96.68082	297.43315	352.85062	11.56204	0.0209158	0.19465083	2.9487088	20	11 22.2	20.7
221686 2007 DA_{35}	15.5	X	8.34726	317.65061	348.76661	6.08269	0.1159442	0.17681651	3.1437946	20	8 31.2	19.2
221687 2007 DW_{35}	17.4	X	238.06336	256.14117	165.93425	12.04824	0.2125684	0.25550392	2.4596369	20	7 11.8	21.3
221688 2007 DV_{36}	15.5	X	115.58591	46.30875	163.31813	9.89262	0.2002550	0.17780338	3.1321511	20	9 22.8	20.6
221689 2007 DW_{42}	16.9	X	298.22913	260.00018	211.01612	5.34148	0.0459588	0.27715695	2.3298012	20	—	—
221690 2007 DZ_{47}	16.2	X	128.28851	55.23539	342.19787	4.34581	0.0195433	0.22350071	2.6891609	20	2 14.0	19.7
221691 2007 DE_{50}	16.6	X	299.03348	64.54916	99.88640	2.48095	0.1351826	0.21256915	2.7805832	20	—	—
221692 2007 DJ_{50}	16.2	X	359.76265	304.82501	178.56291	4.78757	0.0492748	0.21677550	2.7444959	20	—	—
221693 2007 DM_{53}	15.5	X	73.70021	97.31686	185.45338	9.25314	0.0494770	0.18530279	3.0470628	20	10 23.2	19.8
221694 2007 DY_{53}	16.0	X	18.59748	274.04936	180.09965	9.63307	0.1107248	0.21256848	2.7805890	20	—	—
221695 2007 DV_{54}	17.1	X	16.33161	297.46231	225.61992	0.41523	0.1122371	0.23106549	2.6301428	20	2 24.9	19.9
221696 2007 DE_{59}	15.9	X	189.04089	157.81023	157.13469	7.06309	0.0451451	0.22111513	2.7084682	20	1 16.0	19.8
221697 2007 DE_{60}	14.9	X	119.74904	17.99541	167.94478	28.23270	0.1093309	0.17592764	3.1543751	20	8 19.7	19.9
221698 Juliusolsen	16.0	X	325.90469	134.59002	358.61992	4.09860	0.0134689	0.21142213	2.7906311	20	—	—
221699 2007 DT_{69}	16.8	X	118.63460	38.48517	111.42477	2.35456	0.1116883	0.24500642	2.5294013	20	7 9.4	20.5
221700 2007 DH_{71}	15.4	X	44.62384	123.26376	161.29900	13.00758	0.0532671	0.18080804	3.0973544	20	9 18.6	19.6
221701 2007 DZ_{75}	15.1	X	355.12011	314.66292	8.56864	10.40709	0.1089681	0.17642833	3.1484043	20	9 2.9	19.0
221702 2007 DR_{95}	16.4	X	8.46176	138.70536	1.20334	12.11758	0.1338036	0.22106529	2.7088753	20	1 14.7	19.6
221703 2007 DT_{96}	16.3	X	194.73332	137.58625	192.17052	4.63473	0.0218675	0.22220321	2.6996191	20	2 8.4	20.2
221704 2007 DH_{97}	16.7	X	353.80167	59.28627	138.61218	2.48981	0.1232995	0.22865540	2.6485920	20	3 5.6	19.5
221705 2007 DT_{100}	16.5	X	334.35150	104.68530	32.85405	4.79310	0.0070920	0.21217845	2.7839955	20	—	—
221706 2007 DH_{106}	15.6	X	195.84799	56.47407	113.63836	2.72020	0.0964319	0.18663351	3.0325616	20	10 19.9	20.1
221707 2007 DE_{111}	16.3	X	13.62832	160.85502	191.00476	3.50656	0.1391041	0.18924606	3.0045872	20	11 12.3	20.0
221708 2007 DB_{113}	15.9	X	120.56465	183.58077	191.74714	5.37420	0.0130737	0.21680850	2.7442174	20	1 6.4	19.7
221709 2007 DK_{115}	15.7	X	31.77989	97.93901	157.13918	4.95612	0.1313779	0.17129661	3.2109746	20	7 31.3	19.6
221710 2007 EP_{3}	16.5	X	94.94814	100.62113	323.41855	1.26751	0.0712087	0.22384357	2.6864142	20	2 12.1	19.8
221711 2007 EC_{6}	16.8	X	87.37102	247.53501	158.20508	5.51183	0.1670536	0.22131306	2.7068531	20	1 22.8	20.0
221712 Moleson	17.0	X	91.12737	314.43011	151.40331	5.48540	0.1973607	0.23084945	2.6317834	20	4 22.1	20.5
221713 2007 EM_{10}	16.7	X	48.09612	254.75665	173.39484	2.23734	0.0478382	0.21636639	2.7479544	20	—	—
221714 2007 EH_{13}	17.8	X	282.85143	54.73726	326.04652	0.67739	0.1965237	0.25983177	2.4322481	20	7 15.7	20.5
221715 2007 EN_{13}	15.3	X	12.63751	3.25947	323.72091	8.50171	0.0680915	0.18850572	3.0124489	20	9 26.9	19.4
221716 2007 EY_{22}	16.6	X	194.62479	220.25924	6.73893	1.69591	0.0167806	0.20016087	2.8943425	20	—	—
221717 2007 EH_{24}	14.9	X	6.19048	309.71129	19.31588	18.89615	0.1398547	0.17711565	3.1402539	20	10 1.5	18.6
221718 2007 EY_{33}	15.7	X	348.35598	77.21119	213.25163	1.91795	0.0799213	0.17058036	3.2199566	20	7 5.6	19.8
221719 2007 EB_{34}	15.3	X	42.77535	121.27950	173.96883	13.06583	0.1429801	0.18175641	3.0865706	20	10 13.5	19.4
221720 2007 EF_{35}	15.1	X	43.10908	148.18036	144.71240	10.62022	0.0515363	0.18063252	3.0993605	20	9 28.6	19.4
221721 2007 EV_{37}	16.1	X	212.65776	30.76971	241.96917	1.45110	0.0461727	0.21115341	2.7929982	20	—	—
221722 2007 EC_{43}	16.8	X	94.58593	292.93503	171.01857	7.05808	0.1635509	0.23063745	2.6333960	20	4 18.7	20.4
221723 2007 EH_{43}	15.3	X	162.51299	359.80209	176.66273	12.59483	0.0913214	0.18164870	3.0877907	20	9 22.2	20.0
221724 2007 ES_{46}	16.5	X	122.44401	354.05666	4.11364	10.63148	0.2579906	0.28463486	2.2888148	20	1 13.4	19.6
221725 2007 EV_{48}	15.5	X	149.01411	194.98863	39.28623	9.13054	0.1425535	0.18600178	3.0394242	20	11 16.0	20.5
221726 2007 EY_{51}	15.4	X	133.24514	233.97366	315.72680	4.29345	0.1023631	0.18033788	3.1027354	20	9 7.4	20.3
221727 2007 ED_{52}	16.0	X	340.02235	347.31328	201.62110	4.83040	0.0749959	0.22254416	2.6968611	20	2 4.9	19.4
221728 2007 EO_{52}	16.4	X	352.97233	316.42723	186.14517	14.35833	0.1508447	0.21709075	2.7418383	20	—	—
221729 2007 EM_{53}	16.4	X	62.67182	65.82954	342.31287	2.83387	0.0924090	0.21066349	2.7973267	20	—	—
221730 2007 EJ_{64}	17.0	X	163.63158	329.89013	315.49241	3.02339	0.0708772	0.20928260	2.8096182	20	—	—
221731 2007 EE_{67}	16.6	X	122.16444	233.97587	36.25372	3.74678	0.0828060	0.19121105	2.9839673	20	12 2.9	21.2
221732 2007 EG_{75}	15.2	X	288.82684	176.89270	190.04757	14.32512	0.1004939	0.17100748	3.2145929	20	7 12.6	19.8
221733 2007 EQ_{75}	17.1	X	230.35248	129.92265	195.71423	4.63323	0.1662848	0.29749438	2.2223726	20	3 2.4	20.4
221734 2007 ES_{85}	15.9	X	107.75395	320.38980	269.30989	4.21412	0.2069598	0.17764284	3.1340379	20	10 7.0	21.1
221735 2007 EQ_{101}	15.9	X	271.52896	105.11490	97.08589	5.36019	0.0456436	0.20882305	2.8137386	20	—	—
221736 2007 EH_{109}	15.2	X	128.68508	63.54887	159.59062	7.14468	0.0905806	0.18162424	3.0880679	20	10 15.9	20.0
221737 2007 ED_{112}	15.0	X	357.41156	73.85509	173.63353	8.20092	0.0808095	0.15883205	3.3768410	20	5 25.7	19.4
221738 2007 EN_{113}	15.5	X	52.86938	89.99081	189.94537	11.44378	0.0313526	0.18057274	3.1000445	20	9 17.9	19.9
221739 2007 EE_{123}	15.3	X	113.08643	61.35523	156.58350	16.78129	0.0659140	0.18112278	3.0937650	20	9 21.2	19.9
221740 2007 EX_{129}	15.3	X	185.82991	2.49052	171.28117	8.24246	0.0192246	0.18808339	3.0169568	20	10 19.8	19.6
221741 2007 EW_{133}	15.7	X	17.20853	266.37361	38.49549	1.63923	0.1332655	0.17568619	3.1572644	20	9 14.2	19.5
221742 2007 EJ_{137}	16.4	X	105.37042	35.30659	303.93676	4.49907	0.0794613	0.20917318	2.8105979	20	—	—
221743 2007 EU_{139}	16.1	X	226.96843	75.14079	115.67383	3.16007	0.0117497	0.19954461	2.9002986	20	12 30.5	20.0
221744 2007 EQ_{141}	16.4	X	176.97355	298.51825	283.19532	1.95567	0.0634724	0.19282787	2.9672639	20	12 2.7	20.8
221745 2007 EK_{153}	15.2	X	293.16660	215.72968	150.65792	11.00882	0.0874951	0.17464810	3.1697631	20	7 21.4	19.5
221746 2007 ER_{166}	16.4	X	300.04527	310.95611	193.52641	4.45634	0.0633306	0.20569998	2.8421471	20	—	—
221747 2007 EU_{187}	15.2	X	330.02126	316.57119	10.41925	14.40493	0.2126394	0.17311971	3.1883920	20	7 19.7	18.9
221748 2007 ES_{191}	15.9	X	3.32284	113.73226	188.34425	3.23502	0.1017453	0.17006631	3.2264419	20	8 13.6	19.9
221749 2007 EQ_{196}	15.8	X	349.53840	132.48557	21.83755	9.12816	0.0923174	0.21437226	2.7649694	20	1 7.4	19.4
221750 2007 ES_{198}	16.0	X	77.63633	268.05084	186.42015	13.83140	0.0501425	0.22580819	2.6708096	20	2 22.1	19.5
221751 2007 EO_{202}	15.8	X	201.11647	297.51678	161.70951	1.85516	0.0417787	0.17476234	3.1683815	20	7 31.4	20.3
221752 2007 EA_{209}	15.1	X	1.94557	5.39803	359.98328	9.47426	0.0947772	0.18362322	3.0656152	20	11 1.5	19.1
221753 2007 EE_{210}	16.0	X	1.66850	152.47761	359.22058	13.94106	0.0487836	0.22297247	2.6934064	20	1 27.7	19.6
221754 2007 EX_{211}	16.1	X	323.72483	311.85730	148.75854	2.64156	0.0270490	0.20293888	2.8678683	20	—	—
221755 2007 EC_{220}	15.2	X	305.79420	181.98346	186.00782	5.62837	0.1391171	0.17289860	3.1911097	20	8 3.6	19.2
221756 2007 EM_{221}	16.7	X	92.78595	141.89661	176.27903	2.01896	0.0548354	0.20083525	2.8878597	20	12 29.2	20.8
221757 2007 FF_{7}	15.7	X	291.13230	34.38550	86.92901	3.11604	0.0460584	0.19662536	2.9289347	20	12 21.7	19.5
221758 2007 FS_{12}	15.0	X	59.29904	273.32872	315.34239	10.84519	0.0930900	0.16995088	3.2279028	20	8 1.5	19.3
221759 2007 FZ_{12}	14.9	X	135.83580	224.77770	327.52540	18.93103	0.1678487	0.17947475	3.1126753	20	9 11.5	20.1
221760 2007 FH_{23}	15.7	X	187.72643	34.72791	139.58029	3.16256	0.1301201	0.18626913	3.0365152	20	10 14.6	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221761 2007 FX_{25}	16.4	X	62.84908	215.32860	172.82289	2.08372	0.0829109	0.20877401	2.8141793	20	—	—
221762 2007 FK_{26}	16.4	X	283.89836	246.34875	227.18830	0.70404	0.0143196	0.19352948	2.9600880	20	12 4.7	20.5
221763 2007 FH_{40}	15.8	X	16.77715	127.91717	159.96392	9.24797	0.1482482	0.17647959	3.1477946	20	8 22.3	19.5
221764 2007 FE_{43}	14.7	X	82.89831	300.78245	266.44792	15.39924	0.1032585	0.17113675	3.2129738	20	7 31.3	19.5
221765 2007 GC_{26}	15.5	X	271.72309	308.74893	180.56077	2.26749	0.0277284	0.19424844	2.9527795	20	12 7.7	19.4
221766 2007 GG_{30}	15.4	X	86.87361	54.74486	209.11038	9.19799	0.0895179	0.17833796	3.1258887	20	10 17.7	20.1
221767 2007 GT_{32}	15.9	X	163.34693	49.98137	148.20259	3.44269	0.0928359	0.18614574	3.0378569	20	10 20.8	20.5
221768 2007 GD_{34}	15.4	X	160.34754	238.66159	346.25523	5.02156	0.1744463	0.18659139	3.0330180	20	11 14.0	20.5
221769 Cima Rest	15.5	X	64.63950	255.57723	39.99168	16.97193	0.0959855	0.18229502	3.0804880	20	11 1.6	19.8
221770 2007 GG_{60}	15.5	X	188.83378	307.64709	251.16487	3.89366	0.0300824	0.18624953	3.0367283	20	11 19.6	19.8
221771 2007 GM_{62}	15.2	X	158.37930	319.54178	189.17350	9.94759	0.0832222	0.16887702	3.2415721	20	8 11.2	20.3
221772 2007 GY_{64}	15.4	X	157.52114	191.74346	30.44204	8.76872	0.0742562	0.18373181	3.0644072	20	11 9.9	20.0
221773 2007 GZ_{69}	15.8	X	327.78615	181.83665	187.82033	10.78132	0.0418470	0.18051394	3.1007177	20	9 18.3	19.8
221774 2007 GB_{76}	16.3	X	107.51868	245.38825	336.05324	1.58698	0.0575015	0.17369336	3.1813680	20	9 15.1	21.0
221775 2007 HA_{5}	15.7	X	347.35130	201.20754	174.45122	10.18290	0.0975535	0.18128980	3.0918646	20	10 28.6	19.6
221776 2007 HL_{41}	15.6	X	207.91283	320.16371	193.52069	7.22071	0.1331966	0.18233365	3.0800528	20	10 7.6	20.5
221777 2007 HY_{53}	16.8	X	118.42847	293.02564	167.78704	7.44144	0.1675408	0.23271104	2.6177293	20	5 13.1	20.8
221778 2007 KC	14.5	X	226.94998	147.28844	112.36943	4.08156	0.1612894	0.12504261	3.9606278	20	1 1.6	20.8
221779 2007 LG_{8}	15.1	X	262.02620	6.08429	99.75049	14.65232	0.1397288	0.18002192	3.1063648	20	10 16.2	19.6
221780 2007 MD_{11}	13.4	X	303.26405	130.87301	259.56833	1.61741	0.0276719	0.08274543	5.2156291	20	8 31.5	20.2
221781 2007 RD_{62}	15.9	X	205.33057	3.12776	0.79490	1.67150	0.0837562	0.20326202	2.8648280	20	4 5.2	20.2
221782 2007 RQ_{137}	17.1	X	112.97278	105.25594	306.49075	1.66095	0.1839433	0.26576811	2.3958933	20	3 1.3	20.3
221783 2007 TL_{159}	16.5	X	335.76513	38.73298	17.60363	13.43654	0.1712488	0.23245898	2.6196212	20	12 19.7	19.4
221784 2007 TW_{408}	15.2	X	238.29065	335.58018	301.47473	8.95065	0.0603450	0.18395841	3.0618902	20	1 29.3	19.8
221785 2007 VJ_{6}	13.8	X	308.09391	215.64880	191.82242	8.28067	0.0941029	0.08257577	5.2227706	20	9 18.7	20.3
221786 2007 VA_{8}	13.2	X	208.46933	333.48570	161.93435	7.94885	0.0238635	0.08406831	5.1607702	20	9 14.3	20.1
221787 2007 VZ_{30}	21.3	X	37.13402	99.30268	344.65420	2.45337	0.1949841	0.48478399	1.6048602	20	—	—
221788 2007 YC_{30}	17.1	X	126.77187	279.13246	309.11911	19.39929	0.0870542	0.37230504	1.9136835	20	11 13.6	20.0
221789 2008 AP_{21}	17.2	X	20.38643	227.18004	24.01602	2.44091	0.1666498	0.26494494	2.4008533	20	7 20.9	19.2
221790 2008 AE_{66}	17.2	X	123.96344	280.02209	324.16527	4.86925	0.1516599	0.28838448	2.2689319	20	11 20.9	20.7
221791 2008 AN_{114}	15.8	X	214.03973	179.18468	160.94117	14.90264	0.1501681	0.23338774	2.6126668	20	3 13.1	19.9
221792 2008 BY_{9}	17.2	X	161.97879	266.54114	346.92372	6.08289	0.1536019	0.29748219	2.2224333	20	—	—
221793 2008 BW_{31}	17.3	X	10.05078	314.96968	323.36380	1.77937	0.1695978	0.26804326	2.3823165	20	8 12.3	19.2
221794 2008 BC_{34}	17.0	X	17.53903	5.27759	223.88281	1.67319	0.1783635	0.25659978	2.4526290	20	6 8.1	19.0
221795 2008 BM_{36}	16.4	X	66.15874	111.58566	153.40800	8.48244	0.1440780	0.27505159	2.3416749	20	10 20.9	19.6
221796 2008 BB_{38}	17.3	X	139.85579	118.09852	152.81771	3.89216	0.1687564	0.29538703	2.2329300	20	—	—
221797 2008 BO_{47}	17.1	X	67.78381	278.29781	1.10658	2.24585	0.1602263	0.27499935	2.3419715	20	11 9.1	20.3
221798 2008 CC_{7}	16.3	X	297.68066	328.59777	338.52411	6.33528	0.2341394	0.25670195	2.4519782	20	4 13.3	19.4
221799 2008 CM_{23}	16.7	X	58.48832	34.93544	201.15661	2.19789	0.1467735	0.26927709	2.3750337	20	8 27.9	19.7
221800 2008 CJ_{44}	16.9	X	11.32679	228.10961	70.59079	2.31165	0.1859376	0.27028099	2.3691490	20	9 21.4	18.9
221801 2008 CX_{65}	17.9	X	152.84382	52.82369	175.66192	3.17648	0.1839865	0.28899409	2.2657400	20	11 28.9	21.4
221802 2008 CD_{86}	17.6	X	125.64900	286.75823	12.33805	5.57277	0.1883107	0.29691112	2.2252821	20	—	—
221803 2008 CK_{89}	16.7	X	311.16034	327.37660	351.83057	5.43716	0.1128324	0.26375597	2.4080630	20	6 14.9	19.3
221804 2008 CF_{124}	17.4	X	343.60939	109.15046	176.02553	3.76525	0.2337285	0.26339991	2.4102327	20	6 16.5	18.9
221805 2008 CE_{126}	16.8	X	53.50196	308.44517	303.27694	5.77644	0.1582393	0.27236162	2.3570680	20	9 12.4	19.7
221806 2008 CB_{145}	17.4	X	347.69420	102.88463	177.96033	5.06271	0.2145280	0.26172257	2.4205195	20	6 21.5	19.0
221807 2008 CM_{156}	17.3	X	121.65470	245.35642	8.71797	4.05062	0.1372732	0.28548416	2.2842732	20	12 1.1	20.7
221808 2008 CY_{194}	17.2	X	103.58667	263.75398	355.70153	2.40793	0.1623129	0.27987057	2.3147170	20	11 20.6	20.7
221809 2008 CD_{196}	16.9	X	306.52273	328.33633	355.91990	6.27053	0.1514974	0.25944696	2.4346525	20	6 7.4	19.7
221810 2008 CJ_{199}	17.2	X	322.65645	164.69095	140.34862	1.77304	0.1888357	0.25770365	2.4456201	20	6 3.6	19.3
221811 2008 CW_{200}	17.4	X	80.90471	156.37696	177.21889	7.76187	0.1828856	0.29184846	2.2509427	20	—	—
221812 2008 DN_{4}	17.3	X	279.96360	263.27219	186.62194	21.49851	0.1031237	0.37116382	1.9176042	20	12 13.1	19.3
221813 2008 DN_{16}	17.2	X	322.58876	290.85318	172.13005	21.52212	0.0775615	0.38161456	1.8824326	20	—	—
221814 2008 DK_{39}	17.4	X	96.33317	228.06991	342.80378	3.51577	0.1560389	0.26871928	2.3783193	20	9 10.4	20.7
221815 2008 EY_{4}	15.6	X	301.90929	320.12599	272.38567	10.78164	0.2487328	0.23626731	2.5913950	20	1 14.5	19.3
221816 2008 EL_{7}	17.5	X	323.16894	225.33844	185.81906	21.76419	0.0971551	0.37274741	1.9121691	20	—	—
221817 2008 EB_{15}	17.0	X	254.83836	72.86125	177.20747	7.63057	0.1847454	0.22899194	2.6459964	20	—	—
221818 2008 ES_{15}	17.0	X	7.16265	157.59032	161.64805	2.72688	0.1786088	0.26965135	2.3728356	20	10 13.3	19.1
221819 2008 EV_{15}	17.8	X	261.45223	23.15504	171.74962	6.10148	0.1214595	0.30246713	2.1979472	20	—	—
221820 2008 EX_{21}	17.3	X	139.39509	250.43542	322.69432	1.60344	0.1339568	0.27793634	2.3254437	20	10 26.3	20.9
221821 2008 EU_{28}	16.2	X	272.44003	69.56513	180.43129	13.44983	0.2253737	0.23054946	2.6340659	20	1 10.4	20.7
221822 2008 EP_{36}	17.2	X	66.84573	169.38000	64.08940	2.19675	0.1621620	0.26502533	2.4003678	20	9 8.3	20.2
221823 2008 EB_{41}	16.1	X	60.77409	199.47683	47.90701	12.96830	0.1300772	0.26692460	2.3889679	20	9 21.2	19.4
221824 2008 EL_{46}	17.2	X	132.25863	26.02666	210.88085	4.84610	0.1506095	0.28363646	2.2941828	20	11 20.6	20.6
221825 2008 EG_{58}	15.9	X	207.81438	225.59562	36.15104	14.00021	0.1623037	0.21955930	2.7212482	20	—	—
221826 2008 EE_{73}	16.8	X	348.36753	189.18721	63.36918	2.78009	0.1640992	0.25246782	2.4793168	20	5 9.2	19.0
221827 2008 EO_{78}	17.2	X	222.39060	16.21609	209.65264	6.50874	0.0889000	0.29892949	2.2152541	20	—	—
221828 2008 ER_{79}	16.4	X	224.95572	28.27864	205.09630	9.76704	0.1480824	0.21958042	2.7210737	20	—	—
221829 2008 EG_{109}	17.0	X	64.48234	165.29952	128.92987	6.46230	0.1460211	0.28028850	2.3124155	20	11 26.3	20.3
221830 2008 EX_{113}	17.1	X	346.71792	56.82023	245.81052	1.44375	0.2227131	0.26353550	2.4094059	20	7 28.8	18.6
221831 2008 EZ_{121}	17.2	X	96.60022	161.80149	189.51673	4.58477	0.1751632	0.30007585	2.2096086	20	—	—
221832 2008 EC_{142}	16.5	X	350.35563	335.64387	331.16339	6.42782	0.1476262	0.26360993	2.4089523	20	8 13.4	18.4
221833 2008 ER_{151}	17.3	X	348.35924	307.77001	16.10245	1.47046	0.1930310	0.26798267	2.3826756	20	9 10.2	18.8
221834 2008 EY_{151}	17.1	X	5.98945	331.36049	0.48036	2.11505	0.2285720	0.27278070	2.3546532	20	11 6.9	19.4
221835 2008 EJ_{158}	16.5	X	154.72269	63.75819	276.04556	4.71462	0.2002256	0.30687370	2.1768555	20	1 11.4	19.6
221836 2008 EC_{160}	17.2	X	49.98136	80.76990	143.18141	1.94898	0.1491685	0.26019647	2.4299748	20	7 28.5	20.0
221837 2008 FO_{1}	16.8	X	77.09572	166.44758	159.86754	7.29571	0.1694958	0.29238765	2.2481746	20	—	—
221838 2008 FE_{25}	17.0	X	323.01926	174.94716	176.76336	2.16557	0.2484544	0.26801115	2.3825068	20	8 16.8	18.4
221839 2008 FX_{26}	17.3	X	218.25960	351.35930	199.59558	3.47588	0.1620744	0.28980300	2.2615219	20	12 21.6	20.0
221840 2008 FH_{30}	17.2	X	65.86666	182.14100	77.36943	3.46443	0.1584015	0.27380393	2.3487832	20	10 13.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221841 2008 FZ_{46}	17.8	X	350.09343	164.05914	130.19625	2.03157	0.1851520	0.26176277	2.4202718	20	7 22.5	19.4
221842 2008 FD_{62}	16.6	X	34.82333	125.71480	178.19286	7.98783	0.1354380	0.27474105	2.3434391	20	10 30.9	19.4
221843 2008 FZ_{65}	17.5	X	207.73624	353.83868	187.85094	2.37951	0.0939040	0.28466367	2.2886604	20	12 4.7	20.4
221844 2008 FT_{67}	16.8	X	119.47688	219.68877	55.65749	3.16105	0.0692477	0.28257999	2.2998973	20	12 25.6	20.0
221845 2008 FK_{71}	16.3	X	197.73253	325.20119	41.63133	15.77487	0.1478628	0.24069588	2.5595107	20	4 3.9	20.5
221846 2008 FR_{80}	17.1	X	72.55250	88.84804	198.09439	3.77769	0.0821417	0.27848233	2.3224032	20	11 17.3	20.0
221847 2008 FF_{83}	16.3	X	296.31941	115.56775	106.72086	3.51869	0.1383902	0.23279208	2.6171217	20	1 11.8	20.1
221848 2008 FB_{105}	15.4	X	356.40051	175.84068	127.22053	2.98548	0.1403854	0.17555722	3.1588105	20	8 6.5	19.1
221849 2008 FQ_{109}	16.5	X	29.02212	95.68207	175.86687	12.73508	0.1548593	0.18279700	3.0748458	20	8 21.1	20.3
221850 2008 FL_{115}	17.1	X	65.77516	193.03286	174.52438	8.23926	0.1386356	0.29683852	2.2256449	20	—	—
221851 2008 FG_{125}	15.1	X	354.32630	268.37029	52.42291	10.55518	0.2370537	0.17657499	3.1466607	20	9 7.5	18.3
221852 2008 FC_{128}	17.1	X	332.27434	273.00053	165.25513	6.90890	0.0568001	0.29105498	2.2550319	20	—	—
221853 2008 GB	16.2	X	212.68989	141.69970	144.28847	10.82964	0.1307367	0.22410335	2.6843377	20	1 6.9	20.6
221854 2008 GW	16.9	X	260.92251	194.53256	89.93395	2.66956	0.1547427	0.23814271	2.5777721	20	2 17.9	20.8
221855 2008 GJ_{6}	16.7	X	245.64917	161.65368	138.98131	5.76477	0.1191512	0.23733681	2.5836042	20	2 25.2	20.5
221856 2008 GA_{8}	16.8	X	291.08018	308.70705	54.98478	2.18131	0.2005063	0.26007875	2.4307081	20	7 3.0	19.3
221857 2008 GF_{10}	16.9	X	262.88086	146.63250	120.14843	2.83861	0.0917709	0.23132496	2.6281757	20	2 4.4	20.6
221858 2008 GS_{11}	15.5	X	327.00565	295.67019	60.69480	6.07732	0.2142801	0.17886269	3.1197722	20	8 23.8	18.8
221859 2008 GT_{20}	16.1	X	189.63197	353.78757	207.96223	21.85645	0.1626769	0.28640310	2.2793844	20	12 1.4	19.7
221860 2008 GM_{25}	16.7	X	194.18206	134.25262	134.40264	4.54131	0.0794929	0.22005112	2.7171920	20	—	—
221861 2008 GR_{59}	16.9	X	343.38113	59.66543	165.16772	2.89176	0.0934080	0.24160148	2.5531108	20	3 27.1	19.7
221862 2008 GD_{65}	17.2	X	42.69415	167.03301	96.74515	2.28305	0.1690675	0.26438112	2.4042655	20	9 18.8	19.9
221863 2008 GD_{70}	16.9	X	247.20166	191.72801	152.54340	9.55430	0.0874766	0.24372085	2.5382882	20	4 28.0	20.6
221864 2008 GS_{76}	16.3	X	183.33751	141.93704	192.01822	15.07503	0.1408241	0.22761887	2.6566267	20	2 2.8	20.8
221865 2008 GV_{78}	17.4	X	128.85451	100.31057	102.45877	2.20487	0.1245919	0.27055082	2.3675735	20	10 3.2	20.9
221866 2008 GB_{81}	16.9	X	10.18527	124.58407	158.63968	3.80351	0.0668799	0.25826736	2.4420602	20	8 6.6	19.7
221867 2008 GR_{90}	17.1	X	32.36910	245.23881	96.70936	1.77480	0.2342675	0.27778972	2.3262619	20	12 30.9	20.1
221868 2008 GE_{94}	16.7	X	31.98440	225.49800	71.98962	1.99808	0.1989517	0.27298750	2.3534639	20	10 26.6	19.5
221869 2008 GM_{115}	17.5	X	3.40145	274.46990	121.92898	6.11066	0.1354639	0.28677849	2.2773948	20	—	—
221870 2008 GB_{122}	16.8	X	56.58169	98.14569	148.99489	4.48386	0.0694271	0.26434606	2.4044781	20	8 28.7	19.8
221871 2008 GK_{127}	15.2	X	301.33886	223.72355	129.44190	12.20168	0.0868302	0.17515015	3.1637030	20	7 16.6	19.4
221872 2008 GO_{130}	17.1	X	310.96828	157.57797	211.04868	3.57644	0.1821694	0.26564085	2.3966584	20	8 21.5	19.1
221873 2008 GA_{132}	16.0	X	17.17136	133.83116	171.42483	9.74854	0.1066011	0.18029198	3.1032620	20	9 11.5	19.8
221874 2008 GD_{132}	17.1	X	236.48632	183.64163	167.67902	5.56526	0.0790147	0.24272033	2.5452588	20	4 23.8	20.7
221875 2008 HS_{1}	17.1	X	182.49374	69.16624	154.83493	6.95380	0.0657755	0.28568510	2.2832019	20	—	—
221876 2008 HG_{12}	16.8	X	124.04644	52.36565	179.22647	6.29416	0.0536465	0.27670233	2.3323524	20	11 3.7	19.9
221877 2008 HG_{16}	15.9	X	192.52802	51.30422	181.35624	8.91039	0.0484634	0.20658774	2.8339990	20	—	—
221878 2008 HY_{16}	16.7	X	235.27641	162.76564	114.08630	4.06237	0.0745379	0.22745801	2.6578791	20	1 19.6	20.6
221879 2008 HJ_{18}	15.9	X	352.92352	118.31435	189.43163	15.88775	0.2106521	0.17520709	3.1630176	20	8 3.9	19.5
221880 2008 HW_{32}	15.3	X	355.03788	246.13652	62.28153	10.09703	0.1334316	0.17833231	3.1259548	20	8 15.9	19.1
221881 2008 HP_{37}	15.4	X	203.95905	310.74617	33.11715	5.89685	0.2728271	0.22995709	2.6385876	20	3 9.1	20.2
221882 2008 HY_{39}	17.1	X	241.76035	80.32562	205.18231	6.78949	0.1829603	0.23201774	2.6229414	20	1 28.1	21.5
221883 2008 HV_{44}	17.3	X	122.58537	249.39125	92.93059	3.15747	0.1073965	0.30081430	2.2059910	20	—	—
221884 2008 HH_{45}	17.0	X	265.92980	317.14734	175.83260	5.23856	0.0883541	0.28574339	2.2828914	20	12 23.0	19.4
221885 2008 HA_{55}	16.0	X	13.24481	181.60730	105.79873	2.27514	0.1538891	0.17567182	3.1574367	20	8 17.2	19.7
221886 2008 HJ_{61}	16.1	X	191.96573	293.70196	42.48374	6.41707	0.1099937	0.22835470	2.6509167	20	2 18.9	20.3
221887 2008 HW_{67}	16.1	X	229.83388	330.75487	263.82459	6.61388	0.1674663	0.21612944	2.7499624	20	—	—
221888 2008 HM_{69}	16.2	X	155.53130	237.95954	233.16558	4.20154	0.0568700	0.25309220	2.4752375	20	6 26.5	19.6
221889 2008 JR_{10}	16.2	X	305.51425	174.81635	188.81849	13.42492	0.2732818	0.26207526	2.4183475	20	7 13.9	18.7
221890 2008 JX_{11}	17.4	X	26.33763	176.33693	169.22578	3.84001	0.0515454	0.27503473	2.3417706	20	11 30.9	20.2
221891 2008 JD_{15}	17.6	X	122.14148	279.86802	287.95141	1.33579	0.1316671	0.27190445	2.3597093	20	10 1.3	21.0
221892 2008 JY_{17}	15.5	X	30.26846	83.99669	186.99623	15.46967	0.0777195	0.17720843	3.1391576	20	8 10.3	19.8
221893 2008 JU_{19}	14.5	X	265.05077	223.95557	81.01235	18.04049	0.1098782	0.15563523	3.4229254	20	4 7.7	19.8
221894 2008 JK_{35}	16.2	X	297.63795	121.11765	163.30362	4.76028	0.1239986	0.23923600	2.5699127	20	4 5.0	19.4
221895 2008 JA_{36}	16.9	X	122.58315	308.85200	118.43135	3.14796	0.0460856	0.23457807	2.6038209	20	3 19.4	20.4
221896 2008 KO_{9}	16.7	X	205.11481	246.80476	103.53217	3.61647	0.0143822	0.23603366	2.5931049	20	3 20.2	20.2
221897 2008 KQ_{10}	15.7	X	348.18530	220.34972	119.41699	5.22843	0.2841982	0.17844711	3.1246140	20	9 19.3	18.3
221898 2008 KN_{13}	16.1	X	359.29004	185.57330	133.34612	1.68994	0.1758385	0.17848134	3.1242144	20	9 5.7	19.5
221899 2008 KC_{17}	16.1	X	16.50159	173.63706	165.73938	9.81233	0.1411139	0.18515503	3.0486838	20	11 1.9	20.0
221900 2008 KD_{31}	16.5	X	132.83894	199.82317	170.97055	9.20885	0.1132154	0.22128320	2.7070966	20	1 27.6	20.5
221901 2008 KZ_{32}	16.6	X	230.65431	255.43737	176.18187	6.60038	0.0874386	0.26127684	2.4232717	20	7 31.5	19.9
221902 2008 KL_{38}	17.3	X	178.65430	210.26226	152.96019	3.35938	0.0922112	0.23115796	2.6294413	20	3 6.2	21.1
221903 2008 KY_{38}	15.8	X	205.79321	195.91886	187.18231	13.89779	0.3349603	0.23561496	2.5961760	20	4 23.6	20.7
221904 2008 KN_{42}	15.2	X	35.75499	67.25886	180.01339	10.03152	0.1419059	0.17268251	3.1937713	20	7 27.4	19.4
221905 2008 LA_{8}	17.3	X	39.01099	244.38183	186.92912	5.27190	0.1186750	0.29924496	2.2136969	20	—	—
221906 2008 LN_{9}	15.2	X	338.08493	256.30583	78.97187	10.80307	0.2348332	0.17722855	3.1389201	20	8 17.9	18.4
221907 2008 LP_{10}	16.8	X	105.22517	193.57114	129.68298	2.90124	0.0604705	0.20487176	2.8498018	20	—	—
221908 Agastrophus	12.7	X	303.53491	141.96989	271.82097	7.34664	0.0654626	0.08545294	5.1048701	20	9 20.8	19.4
221909 2008 QY_{14}	13.2	X	286.08963	238.14035	174.97331	6.28133	0.0655486	0.08194351	5.2496016	20	9 1.5	20.0
221910 2008 QT_{23}	12.5	X	282.43561	7.88281	58.99811	19.72000	0.1111395	0.08358626	5.1805927	20	9 18.4	19.5
221911 2008 QX_{41}	12.8	X	271.38447	255.24508	176.98127	5.61491	0.0319005	0.08116734	5.2830151	20	9 10.5	19.7
221912 2008 RU_{25}	12.8	X	297.84357	281.22866	125.11048	5.30567	0.0943591	0.08175335	5.2577389	20	9 6.5	19.5
221913 2008 RS_{28}	13.4	X	296.33451	128.05280	302.13252	2.34401	0.0539270	0.08473485	5.1336706	20	10 4.2	20.1
221914 2008 RW_{33}	13.6	X	33.42871	89.91507	229.10263	3.14916	0.0259504	0.08260874	5.2213809	20	9 26.3	20.5
221915 2008 SH_{8}	12.9	X	303.60742	188.87310	220.35701	4.07743	0.0604779	0.08445696	5.1449253	20	9 18.4	19.5
221916 2008 SQ_{81}	13.2	X	331.10369	286.12595	107.02293	5.39202	0.0425305	0.08549610	5.1031521	20	10 9.3	19.8
221917 Opites	12.7	X	283.27472	85.62189	328.54091	23.90679	0.0781772	0.08147893	5.2695376	20	8 27.3	19.6
221918 2008 UU_{34}	16.0	X	107.31292	275.17917	87.38927	4.34142	0.0534187	0.18637864	3.0353256	20	—	—
221919 2008 WZ_{92}	16.2	X	243.17596	39.09362	28.93884	2.77590	0.0902661	0.23075629	2.6324917	20	8 11.3	19.7
221920 2009 KF_{5}	16.2	X	165.75488	154.47540	165.17925	12.89923	0.1357749	0.23714123	2.5850246	20	1 1.3	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
221921 2009 MD_3	15.7	X	54.09593	132.27359	122.70419	10.22737	0.0500965	0.18361639	3.0656913	20	8 24.8	19.9
221922 2009 OJ	16.2	X	302.61025	341.72497	313.23470	6.67719	0.2345372	0.25510937	2.4621723	20	4 2.5	19.3
221923 Jayeff	16.9	X	289.25680	173.26154	187.85609	2.97398	0.2298198	0.26225003	2.4172729	20	6 20.8	19.5
221924 2009 OE_5	17.3	X	68.49829	293.09335	351.62055	1.53298	0.1189171	0.28251851	2.3002310	20	11 13.6	20.4
221925 2009 ON_6	16.9	X	82.85859	25.31358	268.46799	3.51925	0.1330063	0.28980245	2.2615248	20	12 14.3	20.2
221926 2009 OA_9	17.6	X	74.14456	114.41337	197.87301	6.14866	0.1555578	0.28989193	2.2610594	20	12 30.1	21.0
221927 2009 OQ_9	16.5	X	251.53134	185.55318	189.06642	5.65516	0.2929054	0.25363620	2.4716969	20	5 17.9	20.5
221928 2009 OD_{13}	15.6	X	281.54420	121.45748	246.24960	6.91231	0.1161669	0.16981697	3.2295994	20	7 2.9	20.0
221929 2009 OM_{13}	16.5	X	162.58573	33.16943	270.96621	0.91688	0.0566859	0.21941178	2.7224678	20	—	—
221930 2009 OH_{15}	17.2	X	300.66969	29.85943	337.05873	3.02303	0.1465057	0.26618773	2.3933747	20	8 4.9	19.5
221931 2009 OD_{18}	17.6	X	58.78631	218.57587	153.77694	7.10716	0.2061251	0.29674681	2.2261034	20	—	—
221932 2009 OL_{18}	17.1	X	23.64777	46.98306	223.96576	1.75326	0.1769616	0.26953437	2.3735221	20	8 28.6	19.5
221933 2009 PE	17.8	X	35.09378	258.52980	87.43437	0.82669	0.2471438	0.28561360	2.2835829	20	—	—
221934 2009 PK_1	16.7	X	359.45678	137.61931	145.44985	4.98768	0.1770031	0.26528175	2.3988208	20	7 26.3	18.6
221935 2009 QF_2	15.8	X	333.71730	110.22889	223.68241	12.77710	0.2968233	0.17558864	3.1584338	20	7 20.9	18.9
221936 2009 QP_{35}	17.2	X	85.75460	228.48498	136.44074	6.46977	0.2263472	0.29948287	2.2125244	20	—	—
221937 2066 $P–L$	15.7	X	231.43881	352.13003	4.05750	11.29528	0.1832297	0.24172840	2.5522170	20	4 12.3	19.8
221938 3019 $P–L$	15.8	X	167.24347	28.45708	327.28131	11.95218	0.2551365	0.22225833	2.6991728	20	2 22.9	20.4
221939 6017 $P–L$	16.8	X	224.97471	353.06611	351.66818	12.29890	0.1816594	0.24120580	2.5559021	20	3 23.9	20.9
221940 6508 $P–L$	17.2	X	118.72293	305.95768	29.77006	5.91481	0.1081589	0.30173788	2.2014872	20	—	—
221941 1146 $T–2$	17.0	X	73.93496	359.00833	4.79526	7.71160	0.1651484	0.29997390	2.2101092	20	—	—
221942 1543 $T–2$	17.1	X	21.94908	302.47850	358.17016	2.55796	0.1783769	0.27309524	2.3528449	20	10 10.9	19.4
221943 1190 $T–3$	16.7	X	16.40360	120.57886	253.89417	5.78458	0.2211893	0.27825438	2.3236714	20	—	—
221944 2339 $T–3$	15.6	X	294.74145	149.67879	283.99744	4.02640	0.1561442	0.18327912	3.0694511	20	10 10.6	19.3
221945 3227 $T–3$	15.9	X	187.91613	277.71940	33.91935	9.51687	0.1380859	0.21660109	2.7459689	20	1 18.2	20.4
221946 1990 KL_1	16.8	X	31.76267	269.99807	65.65016	24.24472	0.0870773	0.37185405	1.9152305	20	12 22.7	19.0
221947 1992 DW_9	16.7	X	164.48308	301.05097	240.53563	2.62791	0.1815259	0.26190210	2.4194133	20	10 6.8	20.7
221948 1993 FO_{59}	15.9	X	27.44119	314.28858	171.00192	4.47094	0.0216367	0.21464576	2.7626201	20	1 25.7	19.5
221949 1993 SJ_9	15.0	X	32.28155	174.68246	191.58600	15.01446	0.1573751	0.18771943	3.0208552	20	12 26.7	19.4
221950 1993 TF_{15}	15.1	X	338.48706	25.32886	23.05216	9.34537	0.1319227	0.18531879	3.0468874	20	11 23.6	18.8
221951 1993 TZ_{33}	15.6	X	353.52554	314.76828	52.83611	9.29587	0.0821532	0.18274316	3.0754497	20	10 26.7	19.5
221952 1994 PU_{15}	16.9	X	62.31456	310.09103	323.80624	1.84386	0.2447285	0.27014192	2.3699621	20	11 4.9	20.4
221953 1994 TC_{13}	16.5	X	202.57516	149.73257	351.66614	4.80742	0.1318628	0.26506906	2.4001038	20	9 26.8	20.0
221954 1994 VA_5	17.2	X	183.14999	157.37931	356.08578	3.21089	0.1421566	0.26202736	2.4186422	20	9 21.4	20.8
221955 1995 CD_8	17.7	X	246.60136	213.58996	190.87185	1.30241	0.2400817	0.25281008	2.4770786	20	6 25.3	21.4
221956 1995 FW_5	14.9	X	313.70632	68.73789	359.33451	10.10039	0.0997669	0.18109764	3.0940514	20	11 6.2	19.0
221957 1995 FZ_{19}	15.9	X	117.53438	177.55664	11.42603	6.22134	0.1191590	0.17137063	3.2100500	20	8 25.2	20.8
221958 1995 MQ_6	17.2	X	31.14666	117.74599	258.84757	9.64925	0.1376538	0.28652156	2.2787561	20	—	—
221959 1995 OP_{15}	16.7	X	122.78569	239.94792	164.19423	9.54202	0.1454499	0.22046557	2.7137856	20	3 3.0	20.4
221960 1995 SZ_9	16.5	X	147.98851	355.91495	14.18889	1.58524	0.0940814	0.21744842	2.7388309	20	2 12.9	20.4
221961 1995 SY_{26}	17.0	X	328.85673	79.15829	12.32023	4.60551	0.0566080	0.28402015	2.2921161	20	—	—
221962 1995 SQ_{32}	17.2	X	6.65357	26.45368	348.50995	5.25621	0.2344079	0.28195619	2.3032883	20	—	—
221963 1995 SY_{35}	18.0	X	51.34671	155.28023	176.06051	6.28707	0.2751915	0.28366982	2.2940029	20	—	—
221964 1995 SF_{37}	17.5	X	270.38081	125.61753	341.46459	2.70223	0.1468389	0.28025917	2.3125768	20	11 12.0	19.7
221965 1995 SA_{39}	16.4	X	26.17767	98.45696	12.15126	6.32493	0.0134414	0.21299587	2.7768682	20	1 7.9	20.2
221966 1995 SW_{40}	17.8	X	325.70257	33.22397	40.17534	3.00779	0.1259308	0.28187451	2.3037332	20	—	—
221967 1995 SU_{62}	16.9	X	131.92984	168.91200	174.12322	8.48144	0.2253764	0.21251989	2.7810129	20	1 8.1	21.3
221968 1995 SF_{75}	16.0	X	101.86119	0.46468	55.31373	0.48931	0.1029317	0.21463639	2.7627005	20	2 16.7	19.7
221969 1995 US_{20}	16.4	X	114.20220	350.38407	17.00523	5.72785	0.0558858	0.21121083	2.7924919	20	—	—
221970 1995 UH_{22}	16.6	X	8.70375	110.21619	20.68490	4.14689	0.0490904	0.21232663	2.7827001	20	1 8.6	20.2
221971 1995 UN_{22}	17.4	X	320.22210	235.61006	206.65943	2.75499	0.1375777	0.28089259	2.3090989	20	—	—
221972 1995 UT_{22}	16.8	X	126.90685	193.42706	204.90496	1.88124	0.0955164	0.21557170	2.7547036	20	2 23.2	20.6
221973 1995 UQ_{55}	17.5	X	347.51480	158.81088	253.76874	2.19792	0.1575973	0.28053509	2.3110602	20	—	—
221974 1995 VV_4	16.1	X	243.21086	147.31916	81.99435	5.58140	0.0188531	0.20914337	2.8108650	20	—	—
221975 1995 VK_9	17.4	X	5.33382	178.03042	228.27190	2.98870	0.1360526	0.28108261	2.3080581	20	—	—
221976 1995 VL_{11}	16.5	X	189.56775	296.38895	80.54877	5.88322	0.1278801	0.22007482	2.7169969	20	4 7.1	20.8
221977 1995 WG_1	15.6	X	95.84657	141.96689	248.55922	4.57682	0.1383817	0.20860657	2.8156849	20	1 13.3	19.2
221978 1995 WJ_{16}	17.1	X	181.54217	163.95729	24.78819	5.78034	0.1201765	0.27683048	2.3316326	20	11 7.3	20.3
221979 1995 WA_{27}	17.6	X	358.12578	60.16789	332.06590	2.81193	0.2014768	0.27955534	2.3164567	20	—	—
221980 1996 EO	19.0	X	278.55662	64.69689	356.48103	21.59103	0.4005937	0.63432500	1.3415128	20	—	—
221981 1996 EB_{13}	15.2	X	13.56111	284.39728	354.20926	25.39926	0.2804135	0.17295477	3.1904187	20	8 28.9	18.6
221982 1996 GW_4	14.5	X	77.03085	41.26884	73.42210	3.96606	0.1518036	0.12404612	3.9818106	20	4 14.2	19.9
221983 1996 PJ_2	16.0	X	234.30810	16.89143	320.51834	12.11346	0.1662514	0.23576980	2.5950393	20	3 21.2	20.4
221984 1996 XU_{21}	16.5	X	72.39510	47.10456	62.82936	3.85527	0.0536874	0.21890649	2.7266556	20	3 12.1	20.0
221985 1997 BR_5	16.6	X	277.35261	14.44356	141.22182	6.42448	0.0905305	0.28740969	2.2740593	20	—	—
221986 1997 CR_2	16.4	X	136.59706	261.95481	118.41551	4.91672	0.1919430	0.21747221	2.7386311	20	2 24.0	20.6
221987 1997 CS_{12}	16.1	X	48.02560	328.75260	138.24268	5.70203	0.1207671	0.21322950	2.7748394	20	2 6.6	19.2
221988 1997 EE_{24}	16.9	X	28.92872	24.44608	54.81353	4.74529	0.1411524	0.29265676	2.2467962	20	—	—
221989 1997 GV_1	16.9	X	236.07321	345.29621	210.51196	1.37796	0.1860028	0.28400716	2.2921860	20	—	—
221990 1997 GP_{18}	17.0	X	119.72390	104.41443	165.68526	2.49007	0.1537618	0.27633509	2.3344184	20	12 18.5	20.5
221991 1997 GB_{21}	16.6	X	250.64890	346.29676	182.17597	5.11641	0.0941812	0.28263010	2.2996255	20	—	—
221992 1997 LL_5	15.5	X	14.58493	223.31663	122.44486	11.08135	0.0842697	0.18399216	3.0615158	20	11 2.1	19.7
221993 1997 MM_7	15.2	X	85.81833	67.70790	177.30621	14.18486	0.1054610	0.17629621	3.1499771	20	9 26.1	19.8
221994 1997 PT_4	16.2	X	345.87133	92.52788	285.43192	3.05611	0.2292143	0.26186959	2.4196135	20	12 3.7	18.2
221995 1997 TT_{21}	13.5	X	318.55747	204.84799	211.62602	5.54786	0.0632141	0.08372943	5.1746853	20	10 15.6	20.1
221996 1997 YN_1	15.7	X	143.68424	313.73172	126.80669	13.20018	0.2531944	0.23563834	2.5960043	20	5 20.2	20.4
221997 1998 AD_1	15.6	X	233.92535	257.28336	110.05635	14.57669	0.2014054	0.23909472	2.5709249	20	5 5.9	20.0
221998 1998 DL_{29}	16.5	X	286.93352	40.21654	210.37424	4.98681	0.0800900	0.22487978	2.6781554	20	2 12.2	20.2
221999 1998 EE_{18}	15.6	X	130.47371	157.88400	331.93499	11.71935	0.1710390	0.23519709	2.5992502	20	7 2.1	19.8
222000 1998 FL_{137}	15.9	X	255.05448	18.03613	193.01778	13.54923	0.1365801	0.21156120	2.7894079	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222001 1998 HU	15.9	X	315.09705	3.33281	182.33278	9.24129	0.2148238	0.21561615	2.7543250	20	—	—
222002 1998 HN_{10}	14.4	X	251.94488	206.38019	30.74065	9.12962	0.1201450	0.12461896	3.9695990	20	1 2.0	20.4
222003 1998 HQ_{83}	15.7	X	74.84239	111.48684	51.79836	12.48905	0.2236324	0.22816266	2.6524039	20	6 18.2	19.4
222004 1998 MF_{17}	17.0	X	24.08117	52.95738	307.12276	6.55870	0.1330080	0.27904928	2.3192565	20	12 31.0	19.8
222005 1998 QA_{59}	16.7	X	326.81188	70.89091	346.35588	3.64782	0.1378312	0.27472948	2.3435050	20	12 17.9	18.7
222006 1998 QJ_{59}	15.6	X	301.42871	85.30969	354.96493	9.24914	0.2838546	0.18211536	3.0825136	20	10 12.6	18.8
222007 1998 QX_{59}	15.9	X	34.22702	252.67761	109.98731	0.72683	0.1610901	0.18632485	3.0359098	20	12 25.9	20.1
222008 1998 QQ_{63}	18.9	X	350.41938	265.41092	104.45989	1.67115	0.5497907	0.27115558	2.3640520	20	—	—
222009 1998 QO_{70}	16.6	X	41.34906	95.79155	222.72784	10.22193	0.2391850	0.27554864	2.3388581	20	12 11.0	19.9
222010 1998 QY_{95}	14.8	X	36.41303	103.00322	274.83775	7.69517	0.1124615	0.18918961	3.0051848	20	—	—
222011 1998 RP	16.1	X	114.65624	92.93833	268.53730	4.32971	0.1851278	0.28963679	2.2623870	20	—	—
222012 1998 RY_{2}	16.2	X	119.02488	108.82641	183.54700	1.44342	0.1005843	0.18976807	2.9990747	20	12 26.4	20.9
222013 1998 RF_{45}	15.9	X	343.65958	158.32701	177.91857	5.22681	0.2676275	0.17768423	3.1335512	20	8 27.6	18.7
222014 1998 SL_{5}	17.4	X	334.58568	227.79165	187.28832	2.01323	0.1966926	0.27475367	2.3433674	20	—	—
222015 1998 SB_{7}	17.3	X	92.45741	92.62333	179.18238	6.35329	0.1004172	0.27538168	2.3398033	20	11 22.3	20.6
222016 1998 SO_{7}	17.2	X	350.59045	322.71548	356.40008	5.03239	0.1992948	0.26825560	2.3810592	20	9 8.6	18.6
222017 1998 SN_{39}	15.9	X	69.37697	149.44836	168.51684	2.69588	0.0740784	0.18610127	3.0383408	20	12 2.3	20.2
222018 1998 SU_{41}	17.1	X	302.99009	67.01982	3.66509	6.47579	0.1061936	0.27293006	2.3537941	20	11 18.9	19.4
222019 1998 ST_{44}	16.7	X	237.61302	270.13744	233.86477	3.05404	0.1639132	0.27080252	2.3661063	20	11 8.7	19.4
222020 1998 SK_{46}	16.2	X	327.86316	106.44124	339.00461	0.42804	0.2955895	0.18371993	3.0645394	20	12 30.6	18.5
222021 1998 SS_{48}	17.2	X	334.44756	171.38648	211.11704	7.13134	0.1200867	0.26982739	2.3718034	20	11 7.9	19.2
222022 1998 SV_{50}	15.9	X	20.48175	332.21865	8.41879	3.21336	0.0997381	0.17983559	3.1085101	20	10 30.4	19.8
222023 1998 SV_{63}	16.5	X	29.14102	302.73182	40.63583	7.40819	0.1599421	0.27339645	2.3511164	20	12 16.8	19.6
222024 1998 SZ_{76}	14.9	X	43.84463	30.90729	327.69241	9.67355	0.1019138	0.18721316	3.0262988	20	12 25.4	19.3
222025 1998 SF_{77}	15.1	X	270.22183	97.54173	348.63121	25.98011	0.1928685	0.17923775	3.1154185	20	9 14.7	19.4
222026 1998 SX_{106}	15.8	X	330.74099	55.16108	357.49679	1.64731	0.2464653	0.18201743	3.0836192	20	11 17.5	18.4
222027 1998 SK_{113}	15.2	X	13.05862	251.51624	71.88405	5.59443	0.1675278	0.17915751	3.1163486	20	10 8.7	18.9
222028 1998 SW_{148}	16.9	X	353.80463	355.48924	18.82962	2.53230	0.2150366	0.27308741	2.3528898	20	12 15.9	19.1
222029 1998 SA_{154}	17.1	X	21.05054	263.38582	90.04966	3.38327	0.2114933	0.27461001	2.3441846	20	12 28.4	19.8
222030 1998 SF_{156}	16.5	X	11.01716	328.87175	15.98906	3.54788	0.1065408	0.27154150	2.3618116	20	11 13.6	19.1
222031 1998 SP_{158}	17.0	X	268.00605	220.90087	159.37859	2.90890	0.2208940	0.26182788	2.4198705	20	6 19.8	20.4
222032 Lupton	16.4	X	358.67202	159.32664	229.14584	0.92951	0.0876427	0.18486648	3.0518553	20	11 28.8	20.1
222033 1998 TE_{2}	15.3	X	299.35955	198.90919	258.48877	3.69888	0.2211578	0.18163480	3.0879482	20	11 11.8	18.6
222034 1998 TW_{2}	17.1	X	2.64058	186.97664	261.71745	1.94266	0.1658809	0.27938432	2.3174019	20	—	—
222035 1998 TM_{9}	17.2	X	22.82149	287.49665	39.03077	0.81966	0.2189237	0.27109469	2.3644059	20	11 24.8	20.0
222036 1998 TA_{12}	17.3	X	276.48153	86.15728	32.62111	1.76558	0.1341095	0.27232148	2.3572996	20	12 10.6	19.4
222037 1998 TC_{12}	15.3	X	330.64729	199.69767	211.83509	5.10430	0.1491722	0.18089625	3.0963473	20	11 15.7	18.9
222038 1998 TB_{20}	15.1	X	282.46895	95.40757	25.94095	10.95718	0.0803807	0.18319017	3.0704447	20	11 30.9	19.2
222039 1998 TM_{20}	16.9	X	297.46838	45.58255	30.50498	3.79941	0.1704384	0.26989495	2.3714076	20	11 12.6	18.8
222040 1998 TT_{23}	16.0	X	350.81335	54.23650	315.46548	0.84270	0.0931623	0.18033159	3.1028076	20	10 23.1	19.8
222041 1998 UZ_{2}	17.1	X	318.15914	165.96989	222.89060	5.94118	0.1526403	0.26792670	2.3830074	20	10 13.7	19.1
222042 1998 UH_{9}	15.4	X	49.33633	279.28429	9.49781	9.37439	0.0715674	0.17953711	3.1119544	20	10 1.4	19.6
222043 1998 UM_{12}	15.5	X	308.70840	62.52735	35.67011	15.99617	0.2142032	0.18233193	3.0800722	20	11 29.7	18.8
222044 1998 UR_{30}	17.0	X	332.67269	249.22451	149.52784	5.62656	0.2168075	0.27011742	2.3701054	20	12 9.5	18.8
222045 1998 UH_{37}	17.0	X	338.80353	197.56939	200.95101	1.71349	0.2166258	0.27187502	2.3598796	20	12 22.8	18.8
222046 1998 UG_{44}	17.1	X	315.88787	148.07498	264.32726	1.49027	0.2067928	0.26964677	2.3728625	20	11 17.2	18.4
222047 1998 UE_{47}	17.3	X	301.88726	19.19209	67.31169	3.64273	0.1359735	0.27130105	2.3632069	20	12 11.1	19.3
222048 1998 UG_{50}	16.8	X	30.14437	273.17681	39.84594	12.22201	0.2301630	0.27001524	2.3707033	20	11 16.5	19.8
222049 1998 UT_{50}	13.0	X	245.36144	66.16340	43.54292	10.95888	0.1027926	0.08377420	5.1728415	20	9 20.5	20.1
222050 1998 VC_{2}	17.1	X	348.12488	122.67523	241.02433	1.67103	0.2001870	0.26891207	2.3771825	20	11 14.7	19.1
222051 1998 VW_{3}	17.3	X	320.05120	336.82401	55.28629	2.38483	0.1797975	0.26763647	2.3847299	20	10 24.8	19.0
222052 1998 VS_{14}	14.9	X	347.38777	138.42665	230.83871	13.46986	0.2156211	0.17815960	3.1279747	20	10 21.6	18.1
222053 1998 VR_{55}	14.9	X	288.33390	52.79978	40.02443	13.03030	0.1647604	0.17922462	3.1155706	20	10 26.4	18.8
222054 1998 WS_{2}	14.6	X	15.60326	118.16341	232.50156	16.85298	0.0940955	0.17860246	3.1228018	20	11 4.2	18.7
222055 1998 WF_{3}	14.5	X	322.12090	184.86731	240.29202	19.20145	0.1586073	0.17973253	3.1096983	20	11 17.0	17.8
222056 1998 WK_{24}	13.9	X	330.97150	23.57340	355.48352	3.31764	0.0498767	0.08597363	5.0842382	20	9 20.4	20.4
222057 1998 WS_{25}	15.1	X	355.49155	329.84217	46.50981	7.97659	0.1595775	0.17981699	3.1087245	20	11 13.2	18.7
222058 1998 WE_{36}	17.1	X	308.08031	346.51490	56.16673	4.09214	0.0817181	0.26773706	2.3841325	20	10 20.5	19.4
222059 1998 WQ_{37}	15.5	X	198.82839	153.41421	48.87845	10.79585	0.0499169	0.18195348	3.0843416	20	12 1.4	20.0
222060 1998 WA_{39}	15.1	X	231.80472	308.71079	230.29938	16.63837	0.1880413	0.18042710	3.1017125	20	11 24.7	19.8
222061 1998 XN_{5}	16.8	X	330.49183	294.12967	88.36471	2.61411	0.1888519	0.26800455	2.3825459	20	11 4.1	18.5
222062 1998 XC_{6}	16.5	X	272.73707	22.94499	73.27221	12.85397	0.2097596	0.26700901	2.3884644	20	10 24.3	19.1
222063 1998 XK_{6}	13.0	X	293.14356	182.69930	229.22222	13.17687	0.0800574	0.08251504	5.2253330	20	9 2.6	19.9
222064 1998 XO_{8}	15.3	X	295.23336	331.38557	80.70148	11.95784	0.1337518	0.17446514	3.1719787	20	9 23.6	19.5
222065 1998 XZ_{22}	15.6	X	26.19569	283.44733	65.95783	5.69156	0.1347467	0.17918029	3.1160845	20	11 23.7	19.7
222066 1998 XM_{59}	14.0	X	318.16100	155.16471	251.62007	18.00794	0.1708534	0.17530242	3.1618707	20	10 8.4	17.9
222067 1999 AJ_{10}	14.0	X	270.31426	99.47950	46.84602	26.56834	0.2643489	0.17471850	3.1689116	20	11 16.5	18.3
222068 1999 EH_{15}	16.2	X	278.69257	263.14931	327.20368	7.55322	0.0394202	0.23113291	2.6296313	20	1 15.4	19.8
222069 1999 FP_{84}	16.4	X	314.05224	336.52796	245.68503	5.44182	0.1554482	0.23200027	2.6230730	20	1 29.3	19.9
222070 1999 GV_{11}	16.8	X	201.09702	240.26650	199.94248	1.61525	0.1525091	0.24479840	2.5308340	20	7 3.9	20.7
222071 1999 GR_{12}	16.1	X	71.38330	327.12338	202.87707	12.65019	0.0788658	0.23861651	2.5743587	20	6 1.5	19.5
222072 1999 GT_{60}	15.6	X	38.37782	354.07646	210.67650	17.42635	0.2179430	0.23863142	2.5742515	20	6 18.3	18.6
222073 1999 HY_{1}	18.0	X	251.24005	89.86928	216.11244	34.22508	0.1307991	0.60381607	1.3863289	20	1 7.6	20.3
222074 1999 JO_{28}	15.7	X	265.43488	212.68244	39.93485	11.10664	0.1582354	0.22429643	2.6827970	20	1 17.3	20.0
222075 1999 JX_{101}	15.9	X	153.97555	102.83753	189.85302	7.07203	0.3005221	0.21270007	2.7794421	20	—	—
222076 1999 KM_{2}	15.9	X	308.63597	185.70146	59.75363	12.31180	0.0766417	0.22899964	2.6459371	20	3 13.6	19.6
222077 1999 KK_{7}	15.5	X	263.60488	182.12188	82.37039	13.08682	0.1497771	0.22448390	2.6813031	20	1 30.6	19.8
222078 1999 KR_{11}	16.2	X	247.16993	190.42098	58.02285	9.17309	0.2516097	0.21999531	2.7176515	20	—	—
222079 1999 NE_{43}	16.9	X	145.41328	182.03227	120.44361	10.36409	0.3552781	0.30379312	2.1915468	20	—	—
222080 1999 RH_{81}	16.0	X	93.76140	186.04804	168.93960	11.68238	0.1794716	0.20285314	2.8686764	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222081 1999 RL_{90}	17.1	X	119.56465	299.15376	41.00582	3.56541	0.1901760	0.29993433	2.2103036	20	—	—
222082 1999 RM_{91}	17.1	X	72.38231	174.86314	165.65579	6.59506	0.1557002	0.29346308	2.2426787	20	—	—
222083 1999 RB_{106}	16.7	X	120.53345	85.45830	254.76350	4.37510	0.2153667	0.30029397	2.2085385	20	—	—
222084 1999 RP_{131}	17.1	X	87.35474	99.32698	254.59369	5.23212	0.2147997	0.29799066	2.2199044	20	—	—
222085 1999 RD_{159}	16.7	X	96.68519	6.93812	355.24041	7.02743	0.1528972	0.29974996	2.2112099	20	—	—
222086 1999 RP_{178}	17.2	X	83.71720	217.02452	141.47305	6.14603	0.1929791	0.29729064	2.2233878	20	—	—
222087 1999 RG_{218}	17.3	X	125.28855	175.25255	153.94725	3.93626	0.2124151	0.30076699	2.2062223	20	—	—
222088 1999 TR_{44}	17.3	X	79.51785	336.97563	4.36557	6.71012	0.1666675	0.29318726	2.2440851	20	—	—
222089 1999 TQ_{46}	16.6	X	16.57294	51.85930	59.09855	2.84346	0.0236327	0.20581296	2.8411069	20	—	—
222090 1999 TM_{50}	16.5	X	61.29297	139.76722	216.20800	1.21302	0.0769949	0.19834029	2.9120271	20	—	—
222091 1999 TG_{51}	15.6	X	337.86519	105.16345	1.20622	8.72510	0.0125436	0.19898526	2.9057313	20	—	—
222092 1999 TT_{112}	16.9	X	59.09423	135.35384	249.64648	4.75931	0.1614109	0.29560596	2.2318273	20	—	—
222093 1999 TU_{129}	16.9	X	61.54423	298.00182	353.45077	5.27669	0.1644255	0.28707478	2.2758276	20	11 19.7	20.0
222094 1999 TP_{133}	15.9	X	124.37557	108.89613	211.11614	4.78775	0.0930329	0.20111470	2.8851839	20	—	—
222095 1999 TG_{141}	16.5	X	129.51357	313.25894	25.04466	6.44336	0.1398112	0.29807372	2.2194921	20	—	—
222096 1999 TX_{154}	15.9	X	47.20058	352.09712	26.92478	10.12869	0.0895288	0.19685287	2.9266776	20	—	—
222097 1999 TU_{157}	17.5	X	27.31066	173.13702	204.68411	19.22126	0.1005833	0.38371006	1.8755728	20	—	—
222098 1999 TG_{167}	17.1	X	55.62536	145.03127	227.21903	5.97254	0.1117659	0.29303293	2.2448729	20	—	—
222099 1999 TK_{170}	16.6	X	7.00116	55.66238	19.70788	7.88931	0.2610740	0.19650283	2.9301521	20	—	—
222100 1999 TH_{177}	17.2	X	78.99604	197.83687	218.38374	3.92975	0.0979477	0.30045775	2.2077358	20	—	—
222101 1999 TR_{204}	17.1	X	134.57449	136.09069	228.78269	5.40622	0.0602289	0.30155686	2.2023681	20	1 1.8	19.8
222102 1999 TA_{206}	17.3	X	84.54892	330.68349	26.98242	6.63282	0.1987892	0.29397775	2.2400604	20	—	—
222103 1999 TC_{208}	17.1	X	60.52127	345.08987	339.43307	19.16699	0.0936777	0.38405019	1.8744652	20	—	—
222104 1999 TU_{253}	16.7	X	19.73086	226.30950	211.49611	7.69666	0.1422207	0.29373933	2.2412725	20	—	—
222105 1999 TC_{254}	15.8	X	275.44961	250.33206	228.38203	6.10003	0.0889328	0.19114988	2.9846039	20	11 21.3	19.6
222106 1999 TO_{257}	17.2	X	117.25710	306.07106	68.81310	3.37151	0.1511071	0.30194677	2.2004717	20	1 6.9	19.5
222107 1999 TG_{269}	17.4	X	109.88762	26.67725	330.63933	7.56358	0.1905032	0.29942118	2.2128283	20	—	—
222108 1999 TU_{285}	16.0	X	53.90473	101.29078	260.44962	4.84904	0.2306738	0.19665662	2.9286243	20	—	—
222109 1999 TT_{299}	16.3	X	170.06579	193.04486	41.08917	3.05568	0.0423262	0.19208666	2.9748923	20	12 11.0	20.6
222110 1999 UW_{11}	15.7	X	9.63906	349.46684	47.50845	11.69800	0.0955115	0.19214747	2.9742646	20	12 27.5	19.7
222111 1999 UG_{12}	15.8	X	82.74092	300.89990	32.90049	10.41144	0.0888709	0.19708720	2.9243573	20	—	—
222112 1999 UZ_{17}	16.7	X	19.42294	248.10374	147.30416	2.50391	0.1234139	0.19566430	2.9385178	20	—	—
222113 1999 US_{19}	18.0	X	91.73662	272.06889	53.07049	3.11392	0.1253762	0.29186124	2.2508770	20	—	—
222114 1999 UY_{21}	16.5	X	138.71469	260.82665	44.50706	2.29734	0.1093187	0.19968633	2.8989262	20	—	—
222115 1999 UL_{28}	17.7	X	109.49663	288.37848	36.00520	4.46439	0.2015228	0.29644577	2.2276102	20	—	—
222116 1999 UF_{29}	16.8	X	74.89387	229.65893	106.00989	2.30088	0.1782263	0.19673428	2.9278536	20	—	—
222117 1999 UQ_{31}	16.4	X	142.08254	301.12620	33.58424	2.28675	0.0500008	0.20324761	2.8649634	20	—	—
222118 1999 UH_{37}	17.4	X	129.49784	168.74775	169.86748	1.53586	0.1961988	0.30050909	2.2074844	20	—	—
222119 1999 US_{37}	16.5	X	334.17633	35.15607	64.26349	2.95659	0.0881453	0.19757782	2.9195142	20	—	—
222120 1999 UF_{47}	15.1	X	67.00569	96.08449	235.96428	9.84237	0.1003935	0.19294115	2.9661024	20	12 20.3	19.4
222121 1999 VC_{51}	17.2	X	88.22933	81.24792	264.31210	4.03056	0.1959904	0.29417358	2.2390662	20	—	—
222122 1999 VZ_{55}	17.5	X	62.35784	305.18229	51.26656	3.21600	0.1799117	0.29177485	2.2513213	20	—	—
222123 1999 VG_{64}	15.9	X	336.81694	344.30063	52.20307	7.63504	0.1504024	0.18780140	3.0199761	20	11 8.9	19.1
222124 1999 VZ_{64}	17.2	X	84.41770	332.44166	52.90287	5.17534	0.1562255	0.29679499	2.2258625	20	—	—
222125 1999 VO_{76}	17.9	X	252.37450	275.29696	219.08718	6.45197	0.0624251	0.28320808	2.2964956	20	12 6.6	20.6
222126 1999 VE_{80}	16.6	X	66.26058	328.77087	38.25577	9.36086	0.1446029	0.29296511	2.2452194	20	—	—
222127 1999 VJ_{80}	15.2	X	59.74069	124.86888	218.04720	10.32445	0.1109747	0.19278780	2.9676751	20	12 25.9	19.7
222128 1999 VD_{86}	16.9	X	76.54074	34.09233	346.86245	1.76036	0.2502439	0.29609510	2.2293687	20	—	—
222129 1999 VM_{93}	15.2	X	116.02524	301.89038	29.79094	11.01994	0.1363424	0.20127891	2.8836145	20	—	—
222130 1999 VX_{93}	17.1	X	122.20447	140.07260	215.21634	4.29677	0.1742870	0.30029140	2.2085511	20	—	—
222131 1999 VT_{104}	17.2	X	321.94141	273.34564	223.46251	5.61332	0.1171964	0.29292918	2.2454030	20	—	—
222132 1999 VV_{104}	15.6	X	114.40293	298.45413	52.25216	10.24943	0.0410805	0.19930985	2.9025756	20	—	—
222133 1999 VV_{105}	17.0	X	14.73690	316.22722	61.61877	4.29113	0.1467032	0.28617180	2.2806124	20	—	—
222134 1999 VK_{112}	12.7	X	250.14811	27.43461	67.31505	6.95044	0.0345783	0.08463349	5.1377688	20	9 15.9	19.6
222135 1999 VH_{123}	16.5	X	75.12121	186.07006	180.81503	1.98850	0.0924686	0.19657643	2.9294207	20	—	—
222136 1999 VG_{126}	17.2	X	44.30468	260.04985	192.27212	2.87897	0.0335989	0.30192065	2.2005986	20	—	—
222137 1999 VP_{145}	17.1	X	36.54283	167.29901	221.64995	4.61533	0.1548495	0.29020618	2.2594268	20	—	—
222138 1999 VH_{150}	17.1	X	121.67904	323.24069	28.63629	2.65626	0.2401709	0.29945197	2.2126765	20	—	—
222139 1999 VQ_{150}	16.1	X	60.72373	89.13009	278.52334	0.92743	0.1004348	0.19598415	2.9353197	20	—	—
222140 1999 VR_{151}	17.1	X	67.61753	6.38216	48.31051	8.02245	0.1079008	0.29671276	2.2262738	20	—	—
222141 1999 VP_{209}	17.6	X	103.37974	238.54305	99.78832	3.04415	0.1669961	0.29380261	2.2409506	20	—	—
222142 1999 VY_{212}	16.5	X	294.25784	288.53125	160.99995	0.39704	0.1120791	0.18822177	3.0154779	20	11 8.1	20.0
222143 1999 WJ_{14}	17.0	X	135.62905	169.64746	71.66051	3.78881	0.1276746	0.28407314	2.2918311	20	11 29.2	20.2
222144 1999 WA_{15}	15.8	X	107.90184	319.73790	31.57632	12.62953	0.1967718	0.20292100	2.8680368	20	—	—
222145 1999 XV_{14}	16.0	X	248.90752	271.50227	242.16211	21.15083	0.2348126	0.28099879	2.3085170	20	11 29.6	18.2
222146 1999 XD_{49}	17.3	X	81.16885	106.32128	257.33382	4.62974	0.1736446	0.29334321	2.2432897	20	—	—
222147 1999 XD_{56}	16.8	X	8.61328	197.31783	249.20578	6.74989	0.0805050	0.29172652	2.2515700	20	—	—
222148 1999 XW_{62}	15.5	X	295.68208	187.40864	242.39917	9.04400	0.0549220	0.18429000	3.0582163	20	10 18.8	19.6
222149 1999 XA_{66}	16.0	X	315.28547	218.60586	243.82450	4.32908	0.2452325	0.18971305	2.9996545	20	12 25.0	18.7
222150 1999 XK_{133}	15.0	X	345.63323	6.98933	47.65836	12.91540	0.1069460	0.18677359	3.0310451	20	12 12.8	18.8
222151 1999 XP_{143}	17.1	X	121.44197	282.20110	64.27810	26.24681	0.1437482	0.39203392	1.8489292	20	—	—
222152 1999 XG_{184}	15.4	X	353.17092	62.33893	357.36842	6.41446	0.3091208	0.19105033	2.9856406	20	—	—
222153 1999 XT_{188}	16.4	X	354.71803	107.64792	308.36142	5.47901	0.1571149	0.28591086	2.2819999	20	—	—
222154 1999 XQ_{211}	15.7	X	325.71012	66.01145	350.08943	10.55546	0.1638871	0.18526893	3.0474340	20	11 9.2	19.2
222155 1999 XL_{226}	16.2	X	297.31651	19.63474	87.43321	3.84130	0.1752064	0.18515970	3.0486324	20	11 28.4	19.5
222156 1999 XD_{261}	15.2	X	342.92728	100.22392	257.79972	7.16911	0.1080066	0.18122373	3.0926160	20	9 22.6	19.1
222157 1999 YC_{4}	16.4	X	305.07387	120.62126	356.13992	22.70486	0.2317565	0.28357131	2.2945341	20	—	—
222158 1999 YL_{10}	17.4	X	239.19249	342.52299	186.60300	2.62712	0.1724127	0.28366217	2.2940441	20	12 17.9	19.7
222159 2000 AD_{9}	17.1	X	38.04557	18.58490	36.11723	4.42939	0.2060105	0.29091272	2.2557670	20	—	—
222160 2000 AT_{10}	15.0	X	333.49962	55.66299	53.65387	14.18039	0.1359777	0.19323191	2.9631262	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222161 2000 AP_{23}	14.9	X	272.28559	346.87809	88.76880	10.71211	0.1350924	0.17933562	3.1142849	20	9 20.3	19.3
222162 2000 AD_{30}	15.3	X	226.57554	167.36825	305.78945	5.37754	0.2268784	0.17708118	3.1406614	20	8 27.4	20.5
222163 2000 AB_{55}	15.1	X	266.79565	334.60123	115.06020	19.34796	0.1734611	0.17908592	3.1171791	20	9 27.2	19.7
222164 2000 AM_{65}	15.1	X	295.78633	4.00315	104.94546	9.64836	0.1915941	0.18340401	3.0680576	20	11 27.4	18.6
222165 2000 AX_{93}	17.7	X	60.76438	234.24623	291.01507	23.34593	0.4793081	0.29995921	2.2101814	20	7 15.3	20.6
222166 2000 AU_{107}	15.1	X	300.58975	327.49336	109.49993	13.36844	0.2386895	0.18421496	3.0590468	20	10 23.7	18.7
222167 2000 AB_{111}	15.4	X	237.07982	209.22337	275.83551	7.91677	0.0408783	0.17945920	3.1128550	20	10 11.7	20.0
222168 2000 AH_{116}	15.0	X	252.70590	29.73129	129.74026	13.39389	0.2611912	0.18276293	3.0752279	20	11 19.2	19.6
222169 2000 AR_{152}	17.0	X	335.92966	155.17114	273.98147	18.87662	0.0885790	0.37837280	1.8931693	20	—	—
222170 2000 AC_{177}	15.1	X	266.00642	244.10661	250.31958	14.94192	0.2017808	0.18430729	3.0580251	20	11 8.7	19.2
222171 2000 AH_{208}	14.6	X	69.41709	166.43373	81.19033	11.84952	0.1777917	0.17821868	3.1272833	20	9 26.3	19.3
222172 2000 AM_{215}	15.8	X	338.75676	288.30416	112.37523	6.01407	0.1391958	0.18295589	3.0730653	20	11 17.6	19.3
222173 2000 AX_{236}	15.7	X	228.75014	186.27757	316.57869	4.35141	0.1286952	0.17794726	3.1304626	20	10 13.9	20.4
222174 2000 BN_{16}	16.8	X	258.47735	47.92813	93.59820	3.15676	0.1164135	0.27924357	2.3181806	20	12 17.2	18.9
222175 2000 BB_{24}	15.1	X	339.37281	333.13109	71.54317	11.07444	0.2028602	0.18284564	3.0743005	20	11 25.7	18.3
222176 2000 BR_{24}	15.4	X	277.54703	90.31341	25.48058	10.23613	0.1945309	0.18182805	3.0857598	20	11 2.0	19.3
222177 2000 BL_{29}	16.9	X	336.87186	114.76700	332.17620	6.23448	0.1907441	0.28349083	2.2949684	20	—	—
222178 2000 BA_{33}	16.8	X	150.11846	66.32232	144.69657	1.53594	0.1307667	0.27135574	2.3628893	20	11 3.5	20.4
222179 2000 BY_{34}	14.1	X	251.79464	63.06015	94.37535	27.26087	0.2288379	0.17916025	3.1163169	20	11 23.6	18.8
222180 2000 CM_{24}	15.1	X	282.44041	148.58696	306.13844	11.36485	0.1731472	0.18019744	3.1043474	20	10 11.5	19.3
222181 2000 CK_{28}	15.1	X	247.78835	292.94731	154.16624	17.45722	0.0978878	0.17292490	3.1907861	20	9 3.2	19.6
222182 2000 CW_{59}	16.4	X	117.05553	47.03890	167.76950	5.95948	0.1622217	0.26651600	2.3914090	20	10 8.1	20.0
222183 2000 CO_{61}	15.0	X	298.64316	165.22590	316.56707	14.57191	0.2493585	0.18352093	3.0667543	20	12 10.8	18.4
222184 2000 CO_{68}	17.5	X	170.72161	36.41044	142.91190	1.57562	0.1310617	0.27033361	2.3688416	20	10 14.6	21.0
222185 2000 CR_{72}	18.0	X	9.35378	310.66398	117.19103	2.13581	0.2542075	0.28685467	2.2769916	20	—	—
222186 2000 CX_{74}	16.7	X	24.33160	336.69092	319.55447	6.09873	0.1077400	0.26645828	2.3917544	20	9 23.0	19.4
222187 2000 CD_{88}	14.8	X	255.31971	303.89109	146.84525	18.05286	0.1373124	0.17392161	3.1785839	20	9 13.1	19.4
222188 2000 CQ_{113}	15.5	X	331.96635	119.91426	312.87053	4.29843	0.1486846	0.18551959	3.0446885	20	12 16.8	19.1
222189 2000 CX_{131}	16.1	X	254.16193	309.15580	157.35865	1.42191	0.1473973	0.17617204	3.1514571	20	9 28.2	20.4
222190 2000 DW_{5}	16.6	X	268.63100	125.23646	33.21320	23.64873	0.2566265	0.27954438	2.3165172	20	—	—
222191 2000 DL_{34}	17.3	X	252.29788	319.24987	175.91903	1.97548	0.1378480	0.27550005	2.3391331	20	11 24.0	19.9
222192 2000 DO_{35}	15.5	X	208.42678	329.46607	155.96816	5.77038	0.1335232	0.17198547	3.2023948	20	9 3.1	20.5
222193 2000 DG_{37}	15.2	X	274.38147	109.82493	345.11569	9.24479	0.1688990	0.17791795	3.1308064	20	10 3.9	19.4
222194 2000 DE_{55}	16.8	X	111.30322	60.70440	136.75416	1.97367	0.1657916	0.26204606	2.4185271	20	9 9.2	20.3
222195 2000 DW_{56}	15.5	X	206.38273	333.25680	167.68719	5.89533	0.1424201	0.17253301	3.1956160	20	9 19.3	20.4
222196 2000 DO_{66}	15.3	X	331.82601	63.69786	347.92740	5.28305	0.1608663	0.17889779	3.1193641	20	11 15.1	18.9
222197 2000 DA_{82}	14.7	X	185.77403	352.87937	127.73235	20.40027	0.1262636	0.16894812	3.2406625	20	8 6.7	19.9
222198 2000 DX_{85}	15.1	X	232.32939	123.55935	349.95291	18.34369	0.1971412	0.17496449	3.1659406	20	9 7.6	20.1
222199 2000 DL_{89}	15.6	X	284.40779	282.49264	142.01364	6.02186	0.1626183	0.17594052	3.1542212	20	9 14.0	19.7
222200 2000 DQ_{99}	16.6	X	205.57015	48.28003	100.65197	4.51527	0.1766212	0.27059276	2.3673289	20	10 9.2	20.0
222201 2000 DG_{101}	16.9	X	225.88206	117.70595	69.23706	3.87589	0.1848315	0.27638214	2.3341534	20	12 19.1	19.6
222202 2000 DP_{104}	16.4	X	92.36650	157.60244	68.27957	5.99963	0.1461946	0.26243483	2.4161380	20	9 27.6	20.0
222203 2000 DA_{115}	17.1	X	133.09725	247.66555	313.00667	1.52672	0.1749421	0.26651764	2.3913992	20	10 3.6	20.9
222204 2000 DX_{116}	15.3	X	281.10033	76.41605	330.34741	8.27295	0.1309205	0.17202809	3.2018659	20	8 20.5	19.4
222205 2000 DV_{117}	16.6	X	2.37170	57.14324	346.49692	7.63832	0.2932102	0.28029383	2.3123862	20	—	—
222206 2000 EE_{1}	16.5	X	116.10288	247.68609	319.70747	1.67426	0.1252673	0.26510742	2.3998723	20	9 23.4	20.0
222207 2000 EN_{3}	17.7	X	283.67760	107.93003	19.05113	2.57125	0.1626762	0.27816025	2.3241956	20	—	—
222208 2000 EX_{41}	17.0	X	199.58630	113.43105	38.51633	1.38876	0.1635621	0.26842541	2.3800548	20	10 5.8	20.6
222209 2000 EL_{49}	15.2	X	220.72418	94.66064	24.17276	16.69390	0.1971990	0.17196188	3.2026877	20	9 8.8	20.5
222210 2000 EX_{59}	17.3	X	130.75617	14.96310	174.22164	5.61840	0.1011859	0.26281670	2.4137970	20	9 14.2	20.8
222211 2000 EY_{95}	17.0	X	304.68840	288.21833	195.06024	1.68634	0.1542596	0.28042428	2.3116689	20	—	—
222212 2000 ET_{99}	18.0	X	268.28907	121.38943	357.09652	1.57935	0.1302383	0.27476509	2.3433024	20	11 26.6	20.5
222213 2000 EO_{100}	17.5	X	286.41335	228.77181	239.66839	0.92864	0.1957869	0.27643862	2.3338355	20	12 10.2	19.0
222214 2000 ET_{101}	17.3	X	205.33949	348.17568	193.85116	3.25289	0.0665508	0.27260204	2.3556819	20	12 3.2	20.3
222215 2000 ES_{121}	14.9	X	232.03357	123.45995	355.40559	26.77337	0.1902040	0.17520059	3.1630958	20	9 14.9	19.8
222216 2000 EB_{160}	15.0	X	334.07982	64.77131	334.32599	8.21846	0.1794253	0.17723500	3.1388439	20	10 31.4	18.5
222217 2000 EC_{168}	15.2	X	264.20321	103.03114	14.16834	15.76536	0.2948124	0.17940255	3.1135103	20	10 3.6	19.6
222218 2000 EC_{174}	14.9	X	261.58865	44.78639	86.88887	16.65570	0.2340555	0.17836942	3.1255212	20	11 1.9	19.4
222219 2000 FY_{3}	17.2	X	184.75120	284.50097	250.03252	1.42767	0.1160747	0.27070017	2.3667026	20	10 23.1	20.6
222220 2000 FP_{6}	17.1	X	333.94648	307.79561	15.33062	18.64694	0.1134014	0.35440758	1.9775799	20	8 31.8	18.8
222221 2000 FE_{14}	16.7	X	354.32203	209.74879	162.38284	24.46955	0.2357187	0.27429100	2.3460018	20	12 20.3	19.7
222222 2000 FK_{15}	15.7	X	244.87172	80.14194	30.53505	21.27700	0.0413890	0.26700547	2.3884855	20	10 23.0	18.6
222223 2000 FL_{20}	14.7	X	220.80404	123.96759	24.74308	16.09838	0.1728259	0.17370426	3.1812348	20	10 10.9	19.6
222224 2000 FA_{43}	16.5	X	108.79346	141.63244	76.96223	2.91378	0.1457266	0.26276110	2.4141375	20	10 3.6	20.1
222225 2000 FA_{56}	15.5	X	245.21423	104.73912	18.91071	15.99396	0.2006580	0.17441815	3.1725485	20	10 3.2	20.2
222226 2000 FV_{59}	16.3	X	245.58404	124.91668	54.52213	7.57880	0.1230697	0.27664621	2.3326678	20	—	—
222227 2000 GH	17.1	X	58.88730	191.36596	30.76504	3.12797	0.1427683	0.25521513	2.4614920	20	8 8.5	20.2
222228 2000 GO_{4}	14.4	X	238.88979	107.50056	37.21580	26.93395	0.2475503	0.17473573	3.1687033	20	10 19.5	19.3
222229 2000 GQ_{25}	16.5	X	180.56670	190.79249	9.44012	1.28505	0.1275517	0.26956892	2.3733193	20	11 19.7	19.8
222230 2000 GM_{34}	16.9	X	305.17644	68.50942	15.49282	5.37312	0.1969589	0.27357395	2.3500993	20	12 14.1	18.6
222231 2000 GH_{117}	17.4	X	93.69765	353.88828	237.70955	0.66102	0.1523740	0.26215046	2.4178849	20	10 3.5	20.9
222232 2000 GY_{117}	16.8	X	93.88246	207.17708	354.03112	7.35949	0.0661706	0.25947222	2.4344945	20	8 16.0	20.0
222233 2000 GA_{128}	17.1	X	142.95702	188.00356	349.52624	3.17942	0.1296158	0.26332760	2.4106739	20	9 12.8	20.7
222234 2000 GV_{132}	15.9	X	178.63955	85.35008	217.13052	12.02801	0.2742772	0.22716463	2.6601670	20	—	—
222235 2000 GT_{151}	16.6	X	55.52253	205.13834	26.03692	15.55495	0.1041069	0.25447384	2.4662700	20	8 17.1	20.0
222236 2000 GW_{171}	16.4	X	195.64549	148.07237	33.71665	12.59507	0.1199122	0.27000164	2.3707829	20	11 11.7	19.7
222237 2000 GO_{177}	17.2	X	172.27072	65.46042	137.68223	1.70108	0.1340993	0.26853567	2.3794033	20	11 14.9	20.8
222238 2000 HB_{6}	17.0	X	181.56646	160.41045	357.63398	1.28012	0.1306452	0.26368401	2.4085011	20	9 26.6	20.7
222239 2000 HN_{20}	16.3	X	284.65876	72.68558	33.74577	23.75353	0.2770726	0.27427798	2.3460761	20	11 13.1	18.1
222240 2000 HB_{84}	14.1	X	278.65957	33.81403	59.34788	25.85653	0.3948202	0.17896846	3.1185428	20	9 22.2	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222241 2000 HY_{90}	14.1	X	214.08656	53.73657	86.30945	27.82794	0.2118207	0.17339351	3.1850346	20	10 5.2	19.8
222242 2000 JU_{34}	16.6	X	155.01530	180.86951	45.06275	7.23594	0.1266541	0.26661480	2.3908182	20	11 25.1	20.3
222243 2000 KE_{22}	16.7	X	100.19430	336.83315	257.90664	2.29372	0.1557807	0.25919514	2.4362292	20	10 13.4	20.4
222244 2000 LT_{21}	15.7	X	310.54050	68.71801	234.52866	11.67963	0.1856847	0.24160988	2.5530516	20	5 9.1	18.6
222245 2000 LN_{26}	16.5	X	233.89172	106.92370	200.34605	12.38087	0.2939918	0.23124991	2.6287443	20	2 10.3	21.5
222246 2000 NT_{6}	16.5	X	263.90023	125.72308	183.43437	3.31375	0.2541517	0.23562812	2.5960794	20	3 11.6	20.8
222247 2000 OC_{41}	15.8	X	172.41357	128.17410	240.23122	10.88682	0.2408970	0.22763277	2.6565186	20	3 7.8	20.6
222248 2000 OA_{58}	16.6	X	163.46199	5.06174	325.21940	3.45909	0.2923627	0.22234280	2.6984891	20	1 25.1	21.2
222249 2000 PP_{4}	16.4	X	211.24325	184.14573	162.65177	7.01938	0.2668759	0.23070976	2.6328457	20	3 16.0	21.0
222250 2000 QO_{28}	15.9	X	156.92663	344.18878	350.02529	12.44366	0.2040334	0.22010313	2.7167640	20	1 21.9	20.5
222251 2000 QN_{29}	15.7	X	163.53208	22.15227	355.92732	12.18369	0.1844216	0.22517494	2.6758146	20	3 14.6	19.9
222252 2000 QX_{34}	15.7	X	270.33704	325.96525	316.81149	11.72496	0.2248274	0.23320266	2.6140489	20	2 16.5	19.8
222253 2000 QD_{39}	16.1	X	201.46947	149.31564	158.35771	11.55176	0.2147144	0.22539345	2.6740849	20	1 22.4	20.7
222254 2000 QC_{66}	15.6	X	204.15413	290.69451	62.63903	7.07793	0.2490175	0.22825995	2.6516502	20	3 21.8	20.4
222255 2000 QJ_{67}	16.7	X	183.65203	245.24099	75.35629	5.34652	0.3174792	0.22321991	2.6914156	20	1 29.3	21.7
222256 2000 QK_{71}	16.0	X	196.58377	158.47300	185.14625	3.39717	0.2318941	0.22774960	2.6556100	20	2 29.8	20.7
222257 2000 QC_{116}	16.9	X	205.38545	359.59164	336.91997	1.78991	0.1544189	0.22749165	2.6576171	20	2 29.2	21.3
222258 2000 QU_{158}	15.8	X	207.80165	104.98314	187.48749	13.48862	0.2246407	0.22429234	2.6828296	20	1 9.4	20.7
222259 2000 QD_{165}	16.1	X	156.82280	73.31518	315.85110	11.95417	0.1964987	0.22600699	2.6692431	20	3 17.3	20.6
222260 2000 QT_{167}	15.4	X	102.39011	129.81701	316.77967	8.85428	0.3028525	0.22326318	2.6910678	20	4 18.0	19.7
222261 2000 QC_{171}	16.2	X	197.23513	116.19659	198.99391	6.90475	0.2246719	0.22416947	2.6838098	20	1 27.4	21.0
222262 2000 QY_{172}	16.2	X	170.00874	27.28701	317.74936	13.27234	0.2717311	0.22412581	2.6841584	20	2 13.2	20.8
222263 2000 QZ_{173}	15.7	X	142.87455	99.67074	274.22028	5.59770	0.1381424	0.22369406	2.6876110	20	2 13.2	19.7
222264 2000 QU_{175}	16.3	X	195.37511	134.28092	171.20497	12.33037	0.2570750	0.22396625	2.6854330	20	1 15.9	21.2
222265 2000 QK_{183}	15.6	X	187.47426	254.00213	141.09424	15.64731	0.2057125	0.23244778	2.6197054	20	4 29.9	20.3
222266 2000 QH_{193}	15.7	X	179.25655	217.44694	143.84065	13.77793	0.1880757	0.22693329	2.6619746	20	3 9.9	20.2
222267 2000 QB_{214}	16.3	X	175.87844	357.74089	357.31593	14.21904	0.1353429	0.22493594	2.6777096	20	2 27.8	20.5
222268 2000 RS_{1}	15.7	X	224.23864	123.93605	180.48594	13.17829	0.2698838	0.22639078	2.6662256	20	2 2.5	20.6
222269 2000 RL_{13}	15.9	X	151.62464	67.39869	300.76056	11.79863	0.1694411	0.22342820	2.6897426	20	2 16.7	20.2
222270 2000 RN_{39}	16.5	X	160.28943	68.24005	305.07096	11.70495	0.2923409	0.22383251	2.6865026	20	3 6.9	21.4
222271 2000 RJ_{49}	15.9	X	266.21245	60.21631	218.40437	7.68381	0.1465981	0.22915624	2.6447315	20	2 13.9	20.0
222272 2000 RD_{57}	16.4	X	52.57199	216.25330	247.99628	3.82733	0.0722265	0.21949427	2.7217856	20	2 3.7	19.7
222273 2000 RQ_{79}	15.9	X	154.21495	190.22616	211.97830	12.20626	0.2344215	0.22738581	2.6584417	20	4 5.9	20.4
222274 2000 RE_{83}	15.7	X	239.79396	32.26196	297.83221	11.09760	0.0666929	0.23043492	2.6349388	20	3 24.9	19.7
222275 2000 RW_{97}	15.2	X	209.71871	134.42235	264.64424	11.58574	0.2738908	0.23215994	2.6218702	20	5 14.1	19.9
222276 2000 SY_{6}	15.8	X	93.48803	198.38771	244.42070	12.81434	0.1098812	0.22341490	2.6898494	20	3 4.8	19.6
222277 2000 SW_{35}	15.8	X	250.54466	98.59160	178.42352	15.14803	0.1705365	0.22613856	2.6682077	20	1 26.8	20.3
222278 2000 SJ_{39}	15.6	X	222.72178	271.31546	28.13613	12.67771	0.2688705	0.22516913	2.6758606	20	2 2.8	20.6
222279 2000 SL_{41}	15.7	X	121.74554	321.02647	45.54600	7.19069	0.0794980	0.21710966	2.7416791	20	1 7.8	19.5
222280 2000 SU_{46}	15.6	X	199.57709	148.45274	224.58418	10.84180	0.2355690	0.23071332	2.6328186	20	4 5.3	20.3
222281 2000 SF_{55}	16.0	X	205.27976	319.98021	0.30795	12.58636	0.1059060	0.22425678	2.6831132	20	2 14.4	20.2
222282 2000 SS_{63}	16.2	X	195.04530	8.78626	354.45665	4.49431	0.0996707	0.22723732	2.6595997	20	3 22.8	20.1
222283 2000 SJ_{82}	15.6	X	231.78268	262.13515	31.90496	11.76579	0.1924219	0.22414890	2.6839740	20	2 5.6	20.3
222284 2000 SD_{92}	15.6	X	199.31157	115.62708	236.49252	12.03694	0.0730821	0.22829978	2.6513418	20	3 8.6	19.8
222285 2000 SF_{96}	15.7	X	196.09635	164.98024	218.27830	13.07373	0.1978853	0.23056330	2.6339605	20	4 16.4	20.2
222286 2000 SR_{103}	16.1	X	226.32657	329.79020	358.32508	9.14696	0.1505040	0.22756496	2.6570463	20	3 10.1	20.4
222287 2000 SM_{125}	15.6	X	184.19770	296.95102	56.11698	14.33951	0.1344781	0.22236233	2.6983311	20	3 8.9	20.1
222288 2000 SJ_{130}	15.6	X	180.91597	125.32524	258.70450	11.79921	0.1922275	0.22843001	2.6503340	20	3 31.6	20.3
222289 2000 SZ_{136}	15.5	X	186.85391	106.76641	210.31561	13.32303	0.1852862	0.22116962	2.7080233	20	1 19.4	20.3
222290 2000 SM_{151}	16.4	X	91.71113	20.72549	23.88971	10.35083	0.2514967	0.21526803	2.7572937	20	2 15.9	20.1
222291 2000 SY_{152}	15.9	X	184.12745	106.69517	209.08925	11.17354	0.2194523	0.21923669	2.7239171	20	1 17.8	20.8
222292 2000 SS_{166}	15.5	X	209.75787	64.83446	261.54440	6.41288	0.1511548	0.22455832	2.6807107	20	2 18.5	20.0
222293 2000 SP_{168}	15.8	X	151.47472	130.57225	222.36438	11.25288	0.1887204	0.21909254	2.7251118	20	1 30.8	20.4
222294 2000 SC_{175}	15.4	X	113.61158	167.18757	232.65059	12.76160	0.1644558	0.21813505	2.7330804	20	2 13.7	19.5
222295 2000 SJ_{191}	16.4	X	126.65111	6.35516	51.28822	5.74232	0.2506974	0.22275553	2.6951548	20	4 5.8	20.7
222296 2000 SU_{211}	16.1	X	149.25535	296.06954	51.99416	13.60943	0.2054870	0.21876378	2.7278414	20	2 1.4	20.7
222297 2000 SL_{245}	16.5	X	108.27665	128.42455	282.26229	1.51929	0.1794673	0.22084462	2.7106795	20	2 27.5	20.3
222298 2000 SO_{249}	15.6	X	18.37438	36.21842	165.94780	14.51427	0.0198743	0.23027122	2.6361874	20	4 25.7	19.2
222299 2000 SF_{252}	15.8	X	148.74465	273.77230	84.46374	5.93686	0.1254366	0.21954452	2.7213703	20	2 2.9	19.8
222300 2000 SD_{267}	16.1	X	198.84239	1.80122	353.09572	5.51292	0.0528281	0.22645722	2.6657040	20	3 16.8	19.9
222301 2000 SD_{273}	16.4	X	177.34645	359.87982	4.45344	4.51221	0.1712832	0.22376545	2.6870394	20	3 10.1	20.8
222302 2000 SP_{281}	16.2	X	162.89980	137.18304	200.37184	8.62362	0.1256221	0.22084699	2.7106601	20	1 19.8	20.5
222303 2000 SG_{284}	15.9	X	90.52082	115.29482	297.85813	7.61038	0.1698561	0.21744156	2.7388885	20	2 6.5	19.4
222304 2000 SN_{289}	16.0	X	190.33675	348.40539	303.04852	5.22352	0.0954191	0.21772217	2.7365346	20	—	—
222305 2000 SP_{290}	16.0	X	142.50528	116.25038	313.96453	3.17949	0.1992862	0.22642139	2.6659853	20	4 27.8	20.4
222306 2000 SU_{290}	15.5	X	288.36057	206.01057	1.99014	17.08032	0.0644899	0.21835812	2.7312188	20	—	—
222307 2000 SJ_{292}	15.6	X	183.46255	86.39601	265.48149	11.46148	0.1621040	0.22296880	2.6934360	20	2 23.2	20.2
222308 2000 SA_{298}	16.1	X	135.70785	150.86949	258.49399	4.72166	0.1667295	0.22343632	2.6896774	20	3 22.9	20.2
222309 2000 SJ_{299}	16.0	X	132.72278	79.08141	312.77511	4.55214	0.0780581	0.22140165	2.7061310	20	2 19.0	19.9
222310 2000 SP_{299}	15.8	X	122.83358	27.94814	354.23162	9.09979	0.1457628	0.21863513	2.7289113	20	2 7.9	19.7
222311 2000 SW_{308}	15.8	X	140.48786	117.67746	272.59139	7.62660	0.0917999	0.22096095	2.7097280	20	2 24.6	19.8
222312 2000 SU_{347}	15.8	X	178.00017	28.81809	318.93214	21.32279	0.0688831	0.22326846	2.6910254	20	2 13.3	19.7
222313 2000 SQ_{356}	15.4	X	250.08692	242.76558	72.80428	14.53620	0.0792326	0.22854186	2.6494692	20	3 31.8	19.5
222314 2000 SB_{366}	15.5	X	168.10331	55.52602	350.31637	13.94447	0.0890855	0.23050908	2.6343736	20	4 11.9	19.5
222315 2000 ST_{367}	16.2	X	169.22822	280.49011	102.57263	8.09072	0.1680907	0.22604191	2.6689682	20	3 28.7	20.6
222316 2000 SY_{371}	16.0	X	154.78698	339.50759	7.47648	7.52044	0.1880969	0.21769941	2.7367253	20	2 2.1	20.4
222317 2000 TE_{1}	15.2	X	55.32445	114.61290	22.64751	34.54412	0.3748751	0.21857932	2.7293758	20	4 28.9	18.4
222318 2000 TB_{13}	15.8	X	223.07422	106.47806	199.53211	11.37934	0.0260228	0.22189090	2.7021517	20	2 10.6	19.9
222319 2000 TF_{26}	16.6	X	115.02160	2.94773	27.45589	3.98699	0.0967586	0.21801025	2.7341234	20	2 1.2	20.3
222320 2000 TK_{44}	15.9	X	199.17952	205.40068	144.04966	12.45877	0.0602560	0.22664188	2.6642560	20	3 12.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222321 2000 TP_{47}	16.4	X	146.39926	13.96311	56.20045	5.97275	0.1886705	0.22724513	2.6595388	20	5 2.6	20.6
222322 2000 TS_{57}	16.2	X	143.85979	249.21935	149.37041	6.34390	0.0843114	0.22441019	2.6818902	20	3 13.5	20.0
222323 2000 TE_{73}	16.4	X	102.57478	275.59263	96.88488	7.21472	0.1887853	0.21397122	2.7684232	20	1 6.8	20.0
222324 2000 UB_{14}	16.3	X	71.30927	62.59111	346.25427	7.86410	0.1640315	0.21300582	2.7767817	20	1 5.2	19.5
222325 2000 UH_{15}	15.5	X	167.23881	293.71771	69.33141	13.48672	0.1798857	0.22297534	2.6933832	20	3 6.5	20.1
222326 2000 UF_{18}	16.0	X	111.97000	255.29523	97.18779	6.78683	0.1929510	0.21239327	2.7821180	20	—	—
222327 2000 UW_{35}	15.8	X	164.43359	132.43414	220.15874	8.47443	0.1492615	0.21941029	2.7224802	20	2 9.0	20.3
222328 2000 UQ_{38}	15.7	X	125.98507	319.03542	31.49312	9.74464	0.1623859	0.21356826	2.7719044	20	1 4.9	19.8
222329 2000 UV_{64}	15.3	X	100.14552	279.31330	6.85063	9.65980	0.2776337	0.20548995	2.8440834	20	12 13.5	20.4
222330 2000 UD_{66}	15.9	X	175.33511	135.68144	222.27418	7.96652	0.1526559	0.22136126	2.7064602	20	2 25.4	20.4
222331 2000 UL_{72}	15.3	X	182.25344	128.49036	237.31065	13.80124	0.1142114	0.22219301	2.6997018	20	3 8.4	19.8
222332 2000 UT_{72}	15.3	X	248.53555	34.80843	242.33681	11.81271	0.1181302	0.22041627	2.7141902	20	1 27.8	19.7
222333 2000 UF_{80}	15.7	X	116.50108	141.11385	244.95671	12.47533	0.2316474	0.21481992	2.7611268	20	2 9.1	20.1
222334 2000 UK_{81}	16.3	X	129.04184	250.83480	149.65705	4.23272	0.2617971	0.21883190	2.7272752	20	3 18.4	20.7
222335 2000 UO_{92}	15.9	X	66.74914	56.09155	15.33837	15.08971	0.1155028	0.21542397	2.7559629	20	1 25.3	19.5
222336 2000 UG_{96}	15.8	X	78.84767	149.18616	261.29475	6.95213	0.2198874	0.21287266	2.7779395	20	1 24.8	19.0
222337 2000 UT_{98}	15.2	X	120.80900	112.23356	244.15903	11.64432	0.2312369	0.21348523	2.7726230	20	1 11.9	19.5
222338 2000 UN_{103}	16.1	X	115.76127	14.43189	31.43462	10.54389	0.3095473	0.21702326	2.7424067	20	3 20.7	20.5
222339 2000 VM_{3}	16.7	X	113.12477	115.50285	318.80468	11.82973	0.3772434	0.22055567	2.7130464	20	4 18.7	21.6
222340 2000 VU_{12}	16.0	X	121.57615	196.88087	225.20576	5.28709	0.0669314	0.22043891	2.7140044	20	3 12.0	19.7
222341 2000 VH_{51}	15.9	X	80.00491	45.96799	36.82409	13.39584	0.1429085	0.21696215	2.7429216	20	3 5.4	19.6
222342 2000 WX_{9}	16.1	X	75.08207	271.16055	206.90556	7.47325	0.2015339	0.21717674	2.7411145	20	4 15.9	19.5
222343 2000 WC_{10}	16.5	X	107.67777	114.44042	295.50624	2.44018	0.1750271	0.21611897	2.7500513	20	2 25.6	20.3
222344 2000 WS_{30}	15.4	X	173.47690	260.96630	82.52513	14.15677	0.2140635	0.21871446	2.7282514	20	2 17.3	20.2
222345 2000 WJ_{51}	16.4	X	204.14629	277.86778	51.64033	6.02207	0.0617534	0.21991809	2.7182877	20	2 23.8	20.4
222346 2000 WS_{65}	15.9	X	83.30106	170.57407	249.80221	2.79522	0.0925197	0.21342077	2.7731813	20	1 26.4	19.4
222347 2000 WX_{73}	16.4	X	104.07045	43.36018	4.48685	4.27899	0.1043863	0.21586423	2.7522144	20	2 10.7	20.2
222348 2000 WT_{76}	15.6	X	137.93424	95.46788	272.19386	5.12739	0.0731492	0.21508545	2.7588539	20	1 26.0	19.5
222349 2000 WR_{97}	15.6	X	122.71766	146.16101	260.08441	6.94007	0.2790691	0.21686305	2.7437572	20	3 17.1	20.1
222350 2000 WP_{100}	15.6	X	178.11881	232.52453	71.26881	5.39721	0.0471072	0.20979081	2.8050789	20	—	—
222351 2000 WL_{128}	16.2	X	171.19959	129.97026	236.63219	2.43940	0.1207762	0.22006282	2.7170957	20	3 3.6	20.3
222352 2000 WP_{128}	16.1	X	129.40867	356.67245	65.55907	4.56985	0.0763772	0.22034536	2.7147725	20	3 27.2	19.9
222353 2000 WX_{128}	15.2	X	244.37227	33.45666	239.74523	13.09079	0.1667759	0.21855626	2.7295678	20	1 16.9	19.8
222354 2000 WZ_{136}	15.7	X	52.46151	345.96290	78.01517	7.28935	0.0467856	0.20990695	2.8040441	20	—	—
222355 2000 WU_{146}	15.4	X	107.45844	259.42268	118.18989	13.14305	0.1798079	0.21335854	2.7737205	20	1 18.1	19.1
222356 2000 WL_{150}	15.5	X	200.79663	264.91820	39.79129	9.27583	0.1285988	0.21870669	2.7283160	20	1 21.4	20.0
222357 2000 WJ_{165}	15.3	X	148.81426	287.06528	81.91326	17.02024	0.1396074	0.21803630	2.7339056	20	2 22.3	19.8
222358 2000 WP_{181}	15.6	X	92.13161	269.28698	111.06285	25.13777	0.2308341	0.21270774	2.7793752	20	1 9.4	19.1
222359 2000 XN_{2}	16.6	X	62.53215	93.29736	320.60463	6.53658	0.2295075	0.21084335	2.7957357	20	1 5.1	19.3
222360 2000 XR_{11}	16.0	X	115.31528	237.25563	181.61967	15.53858	0.2592842	0.21866178	2.7286896	20	3 27.4	20.2
222361 2000 XB_{22}	15.9	X	96.89786	122.65608	275.36426	16.24276	0.1503725	0.21238118	2.7822236	20	1 22.5	19.6
222362 2000 XO_{23}	15.9	X	65.36963	65.74113	12.61423	10.84234	0.1966463	0.21233006	2.7826701	20	2 11.7	19.1
222363 2000 XH_{27}	15.4	X	140.38991	91.89242	321.60851	8.33683	0.1941138	0.21914733	2.7246576	20	4 2.7	19.8
222364 2000 XJ_{31}	15.4	X	128.32458	24.84268	46.52550	10.59399	0.2002269	0.21991381	2.7183229	20	4 19.6	19.7
222365 2000 XK_{31}	16.0	X	76.42524	11.65199	39.30732	8.63128	0.2346823	0.21079644	2.7961504	20	1 29.2	19.3
222366 2000 XM_{34}	15.5	X	110.63050	94.29823	8.35552	11.99415	0.1572245	0.21864489	2.7288301	20	4 30.4	19.7
222367 2000 XC_{42}	15.0	X	151.98320	92.46480	314.15803	16.12785	0.2456319	0.22132703	2.7067392	20	4 2.9	19.9
222368 2000 YD_{3}	16.1	X	216.18607	169.50894	70.71229	3.16232	0.0066459	0.20489049	2.8496281	20	—	—
222369 2000 YZ_{12}	15.1	X	339.18877	275.91650	197.65615	19.63462	0.2174448	0.20236095	2.8733260	20	—	—
222370 2000 YK_{56}	15.9	X	90.83745	317.49031	97.66267	15.58907	0.1580170	0.21155021	2.7895046	20	2 13.3	19.7
222371 2000 YH_{78}	15.5	X	128.62003	133.82088	277.72119	9.27619	0.2622485	0.21818285	2.7326812	20	3 25.6	20.1
222372 2000 YS_{80}	16.0	X	98.88612	312.02863	91.27786	10.07264	0.2935926	0.21320316	2.7750680	20	2 28.8	20.0
222373 2000 YQ_{122}	15.9	X	127.40166	269.79628	138.79676	10.45490	0.2588824	0.21827414	2.7319193	20	3 28.9	20.4
222374 2000 YV_{127}	15.6	X	248.74482	274.76087	292.30442	9.97994	0.0123828	0.20115257	2.8848218	20	—	—
222375 2000 YW_{132}	17.1	X	11.78502	181.56628	312.59387	4.79917	0.0315400	0.30865707	2.1684624	20	—	—
222376 2001 AC_{31}	14.9	X	159.94367	93.87453	290.93005	13.17121	0.2605008	0.21927319	2.7236148	20	3 16.6	19.9
222377 2001 BH_{8}	16.7	X	93.91046	24.13246	54.62509	3.77638	0.0799386	0.31347836	2.1461711	20	2 20.6	18.9
222378 2001 BE_{29}	15.2	X	275.67204	184.89362	285.58743	8.86389	0.0602054	0.19124267	2.9836384	20	11 12.7	19.3
222379 2001 BU_{56}	13.2	X	258.97503	147.99949	308.85094	1.85186	0.0883219	0.08344607	5.1863936	20	9 17.0	20.2
222380 2001 CN_{44}	14.9	X	280.82896	143.41392	64.52865	15.29604	0.1950712	0.19790324	2.9163129	20	—	—
222381 2001 DZ_{16}	15.4	X	285.75494	101.23949	15.78042	9.68902	0.1094062	0.18974930	2.9992725	20	11 28.7	19.3
222382 2001 DK_{23}	14.8	X	169.87102	236.75450	313.65887	26.03604	0.1606259	0.18241443	3.0791435	20	9 28.9	20.3
222383 2001 DZ_{47}	15.5	X	92.18607	288.95402	348.66118	9.42247	0.0803353	0.18349293	3.0670663	20	11 5.8	20.2
222384 2001 DO_{48}	12.5	X	284.62595	340.22288	91.69380	14.22409	0.0870968	0.08348513	5.1847755	20	9 25.9	19.4
222385 2001 DM_{61}	17.3	X	341.29526	321.29176	176.35078	1.56702	0.0686221	0.30427107	2.1892512	20	—	—
222386 2001 DL_{65}	15.2	X	349.72595	91.89280	326.44342	9.92897	0.0837765	0.19121256	2.9839516	20	12 25.4	19.2
222387 2001 DU_{66}	15.5	X	7.71596	282.09859	149.92232	10.47298	0.0999285	0.19558075	2.9393546	20	—	—
222388 2001 DZ_{72}	15.5	X	298.40287	303.05426	171.47989	9.93996	0.1110703	0.19087703	2.9874474	20	12 17.6	19.3
222389 2001 DA_{77}	18.0	X	179.49957	268.23123	172.18005	22.70923	0.2053090	0.42819522	1.7433109	20	6 16.9	21.0
222390 2001 DR_{97}	15.2	X	197.19855	37.54256	137.55519	13.30877	0.1036865	0.18407238	3.0606262	20	10 29.9	20.1
222391 2001 DT_{98}	15.5	X	177.20874	356.37925	170.76898	17.78275	0.2166423	0.18066101	3.0990346	20	9 22.5	20.8
222392 2001 EV	15.2	X	222.66958	137.12740	51.76182	6.56019	0.0722356	0.18678709	3.0308991	20	12 11.4	19.5
222393 2001 EY_{9}	17.0	X	19.59390	356.77446	117.18315	2.27888	0.1026651	0.30312610	2.1947606	20	—	—
222394 2001 EW_{10}	17.1	X	197.17179	187.54893	31.67807	5.13622	0.1600667	0.28890444	2.2662087	20	—	—
222395 2001 EA_{13}	17.1	X	244.29775	106.33289	138.36929	22.58955	0.0434256	0.40316020	1.8147534	20	—	—
222396 2001 EV_{23}	16.3	X	263.03659	325.70870	208.25192	0.53217	0.2308580	0.19174031	2.9784736	20	12 22.6	20.0
222397 2001 EM_{26}	17.4	X	237.33639	6.57182	177.85992	4.39831	0.1187786	0.29136369	2.2534388	20	—	—
222398 2001 FQ_{11}	15.4	X	206.29629	142.17771	34.76770	5.83703	0.1016117	0.18243035	3.0789643	20	11 5.2	20.1
222399 2001 FW_{12}	15.6	X	283.76045	98.94174	13.79446	8.97963	0.1022657	0.18616607	3.0376358	20	11 20.1	19.6
222400 2001 FJ_{15}	17.2	X	238.43393	53.58229	182.66805	2.09405	0.1222041	0.29664416	2.2266169	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222401 2001 FV_{17}	15.0	X	115.44013	248.41136	5.91838	10.14213	0.0553165	0.17882226	3.1202424	20	10 31.7	19.7
222402 2001 FR_{26}	14.9	X	215.33280	151.48876	355.04715	11.27533	0.1539750	0.18065886	3.0990592	20	10 2.3	19.7
222403 Bethchristie	16.2	X	218.14076	257.16421	261.98240	0.68664	0.1160957	0.18263267	3.0766900	20	10 26.1	20.9
222404 2001 FQ_{47}	14.8	X	154.25105	170.72135	13.97240	27.40592	0.1096377	0.17479437	3.1679945	20	9 27.8	19.9
222405 2001 FZ_{61}	15.7	X	233.29211	125.93508	17.38732	5.98790	0.1256342	0.18455354	3.0553043	20	10 22.3	20.1
222406 2001 FH_{72}	15.0	X	207.08460	125.16246	56.01613	8.36282	0.2280672	0.18289336	3.0737656	20	11 1.6	20.0
222407 2001 FW_{90}	14.7	X	122.39702	212.45787	25.30534	29.09996	0.2030021	0.17537287	3.1610238	20	10 26.1	20.1
222408 2001 FA_{103}	15.1	X	127.78722	23.64262	176.44576	5.25376	0.1393393	0.17620851	3.1510222	20	9 17.4	20.2
222409 2001 FS_{104}	16.3	X	8.87508	68.82600	71.16792	4.64574	0.0776451	0.30465172	2.1874273	20	—	—
222410 2001 FB_{112}	15.3	X	187.02755	139.44083	32.90924	9.67027	0.0331086	0.17947030	3.1127267	20	10 16.3	19.9
222411 2001 FF_{130}	15.9	X	290.60885	145.05074	340.53732	4.56340	0.2418023	0.19144690	2.9815161	20	12 3.2	19.1
222412 2001 FB_{133}	15.5	X	227.22972	171.52647	3.40900	6.24061	0.1584953	0.18420962	3.0591059	20	11 17.5	20.1
222413 2001 FM_{156}	17.2	X	312.98098	14.46163	127.94932	4.35711	0.1017228	0.29645175	2.2275803	20	—	—
222414 2001 FU_{163}	15.9	X	264.11444	349.53660	162.17444	4.18654	0.1688032	0.18962870	3.0005440	20	12 5.7	19.9
222415 2001 FB_{172}	14.5	X	220.35902	136.41594	62.78847	22.96312	0.1015774	0.18499730	3.0504163	20	12 14.9	19.1
222416 2001 GU_{7}	16.6	X	44.56108	138.88992	123.09989	6.43653	0.1730224	0.26986468	2.3715849	20	9 22.2	19.4
222417 2001 HS_{32}	15.6	X	219.72175	114.97061	47.53199	7.78188	0.1902038	0.18116582	3.0932750	20	10 25.2	20.5
222418 2001 HM_{46}	16.5	X	74.25458	233.48009	28.33329	4.74731	0.2833698	0.27332448	2.3515291	20	11 5.2	20.3
222419 2001 JF_{11}	17.5	X	91.01681	88.54377	163.61092	5.41949	0.2313403	0.27403351	2.3474711	20	11 5.8	21.3
222420 2001 KW_{27}	16.6	X	38.83122	229.55740	56.36499	6.60087	0.2370900	0.26809596	2.3820043	20	10 26.1	19.6
222421 2001 KD_{52}	16.6	X	35.98840	215.01840	55.96776	5.58601	0.1882251	0.26882587	2.3776906	20	9 24.8	19.3
222422 2001 KL_{53}	17.6	X	64.42302	79.43611	205.80231	3.47815	0.1791510	0.27319174	2.3522908	20	11 15.9	21.0
222423 2001 KF_{71}	14.8	X	108.66786	187.22879	63.97645	10.38281	0.0724306	0.17401879	3.1774004	20	10 27.1	19.6
222424 2001 MO_{10}	16.7	X	351.96864	20.13974	315.81909	5.03671	0.1505845	0.26430099	2.4047514	20	9 29.7	18.9
222425 2001 OV	16.3	X	294.48976	256.29023	98.59190	7.83117	0.2429001	0.25697104	2.4502661	20	6 17.7	19.1
222426 2001 OX_{14}	16.4	X	99.14529	243.37276	326.36287	18.77494	0.0423832	0.36735316	1.9308425	20	9 6.9	18.6
222427 2001 OK_{38}	14.2	X	140.34183	251.72362	75.82126	9.86793	0.1923523	0.12575547	3.9456460	20	1 7.4	20.4
222428 2001 OB_{67}	16.6	X	315.29856	302.70948	51.33239	7.75871	0.2436482	0.25815951	2.4427403	20	8 1.9	18.6
222429 2001 OQ_{101}	15.6	X	104.84384	279.79290	325.58041	12.82359	0.1613980	0.27062066	2.3671662	20	10 28.2	19.5
222430 2001 PU_{10}	16.9	X	7.50836	304.42758	27.79697	2.37205	0.2159738	0.26471528	2.4022417	20	11 6.1	19.3
222431 2001 PG_{35}	17.0	X	323.96331	282.83500	43.61544	3.62174	0.2043059	0.25883100	2.4385136	20	7 10.4	18.9
222432 2001 PP_{53}	16.5	X	333.33243	343.44061	28.09029	6.25764	0.1560869	0.26351580	2.4095259	20	10 19.5	18.3
222433 2001 QB	17.4	X	358.07155	46.30207	277.86778	1.50665	0.2301980	0.26186054	2.4196693	20	10 6.2	19.3
222434 2001 QQ_{2}	15.3	X	176.46828	34.86710	337.61414	33.91547	0.3481178	0.23787350	2.5797167	20	3 12.0	20.4
222435 2001 QW_{4}	17.3	X	5.17218	57.45931	269.91083	1.29786	0.2073039	0.26342774	2.4100629	20	10 23.3	19.5
222436 2001 QU_{14}	16.6	X	39.49824	299.23938	322.84684	14.38582	0.1759867	0.26156372	2.4214995	20	9 6.4	19.5
222437 2001 QZ_{19}	16.4	X	304.56455	336.45152	30.15016	1.93126	0.1827293	0.25675413	2.4516460	20	8 5.4	18.7
222438 2001 QQ_{44}	16.9	X	310.53512	210.59763	136.05944	6.95944	0.1884982	0.25754896	2.4465993	20	7 14.6	19.2
222439 2001 QW_{46}	17.2	X	345.46524	334.65916	358.80789	1.03206	0.2006962	0.26114951	2.4240593	20	9 17.7	19.0
222440 2001 QY_{59}	17.1	X	2.21458	72.61436	320.80694	19.72262	0.0870810	0.37675479	1.8985856	20	—	—
222441 2001 QD_{91}	17.5	X	19.86407	151.29073	208.24506	20.73669	0.0755862	0.37355758	1.9094034	20	—	—
222442 2001 QM_{100}	17.4	X	149.64375	259.92436	15.52470	21.13141	0.0993133	0.38139923	1.8831410	20	—	—
222443 2001 QH_{107}	17.4	X	359.98358	124.29906	264.45207	20.07715	0.0783199	0.37417702	1.9072955	20	—	—
222444 2001 QJ_{121}	16.4	X	230.93599	173.08623	130.44697	6.72951	0.1255956	0.24116294	2.5562050	20	2 13.1	20.2
222445 2001 QF_{152}	15.5	X	146.30209	88.48832	323.35119	27.61790	0.3602300	0.23392995	2.6086281	20	4 2.8	20.8
222446 2001 QN_{160}	17.6	X	288.28315	51.19793	327.79707	0.79297	0.1951070	0.25640663	2.4538605	20	7 22.0	20.1
222447 2001 QL_{165}	16.1	X	34.11829	300.12886	87.40657	7.40870	0.1016529	0.27450501	2.3447823	20	—	—
222448 2001 QJ_{170}	16.4	X	330.53819	234.25683	238.07001	19.83650	0.0903276	0.37610783	1.9007622	20	—	—
222449 2001 QR_{173}	16.1	X	286.04104	165.66134	270.17043	8.17867	0.1952847	0.26312235	2.4119273	20	10 9.3	18.5
222450 2001 QM_{210}	14.6	X	166.19667	155.31111	164.29865	4.23016	0.2624080	0.12506023	3.9602557	20	1 21.5	21.3
222451 2001 QH_{214}	17.2	X	314.54268	127.92596	226.76809	0.45953	0.2011468	0.25721740	2.4487013	20	8 3.9	19.2
222452 2001 QL_{252}	16.7	X	294.64368	10.99666	6.43594	6.21934	0.2439887	0.25702725	2.4499089	20	7 24.1	19.2
222453 2001 QW_{253}	16.2	X	211.74891	12.14010	4.83007	9.24386	0.2126727	0.24578910	2.5240288	20	4 19.4	20.6
222454 2001 QM_{279}	14.8	X	157.26415	274.88891	34.31612	10.28757	0.2570934	0.12508023	3.9598336	20	1 5.4	21.4
222455 2001 QH_{292}	16.1	X	134.89366	106.69495	281.42635	2.46182	0.2183297	0.23110865	2.6298153	20	3 1.8	20.3
222456 2001 RR_{7}	17.1	X	294.73911	181.31579	191.70897	6.12209	0.2036092	0.25706367	2.4496775	20	7 21.1	19.7
222457 2001 RD_{14}	17.0	X	344.55281	132.25366	289.14159	0.60319	0.1617488	0.27028601	2.3691197	20	—	—
222458 2001 RL_{25}	16.7	X	217.73232	137.79849	284.40036	2.13225	0.1780045	0.25044433	2.4926535	20	6 25.6	20.6
222459 2001 RO_{27}	16.6	X	277.49577	247.65501	171.42032	4.94702	0.0886948	0.25997217	2.4313724	20	9 19.9	19.2
222460 2001 RW_{34}	16.2	X	26.30640	77.71820	243.86717	3.90035	0.0951629	0.26494920	2.4008276	20	10 31.9	19.0
222461 2001 RR_{47}	17.3	X	56.36269	255.87692	2.55013	19.41592	0.0813565	0.36484387	1.9396856	20	9 30.1	19.0
222462 2001 RC_{80}	16.4	X	302.09627	331.61584	8.39066	3.88129	0.2040701	0.25311936	2.4750604	20	6 14.9	19.1
222463 2001 RN_{82}	15.9	X	359.99306	81.75386	243.77838	6.32422	0.0955173	0.26003350	2.4309900	20	9 21.6	18.6
222464 2001 RH_{84}	16.8	X	295.41686	126.97316	225.91556	1.92160	0.0845636	0.25392092	2.4698490	20	7 12.8	19.6
222465 2001 RG_{98}	17.0	X	210.31138	220.67227	190.45124	14.03400	0.0982940	0.24645947	2.5194498	20	6 9.4	21.0
222466 2001 RP_{103}	16.3	X	336.45219	309.54252	16.45584	8.39589	0.1413885	0.25740725	2.4474972	20	8 16.6	18.6
222467 2001 RA_{106}	16.8	X	274.57679	302.08937	94.63737	3.75007	0.1964940	0.25539489	2.4603369	20	7 26.4	19.8
222468 2001 RB_{110}	17.8	X	288.69679	293.95011	33.94977	1.59161	0.2250424	0.25127891	2.4871312	20	5 4.2	20.9
222469 2001 RW_{126}	16.3	X	290.87957	356.24305	40.32378	5.69975	0.0874346	0.25858852	2.4400378	20	9 11.6	19.0
222470 2001 RX_{154}	16.3	X	288.24202	24.76893	36.64083	7.08365	0.0964278	0.26187148	2.4196019	20	10 11.6	18.8
222471 2001 SF_{14}	16.9	X	196.03123	332.47243	13.49626	3.67620	0.2600124	0.23882546	2.5728569	20	3 4.2	21.4
222472 2001 SC_{15}	16.3	X	249.29141	32.22959	3.67236	10.56005	0.1493090	0.25133462	2.4867636	20	6 28.9	20.0
222473 2001 SN_{18}	14.5	X	150.15713	322.27715	12.82023	9.60654	0.1447151	0.12390834	3.9847618	20	1 22.9	20.7
222474 2001 SE_{21}	16.6	X	236.20049	307.70271	20.08040	14.48568	0.3123792	0.24254353	2.5464955	20	3 13.1	21.3
222475 2001 ST_{55}	15.6	X	195.40266	356.27824	39.79461	13.06734	0.2085923	0.24105586	2.5569619	20	5 1.7	19.7
222476 2001 SN_{82}	16.3	X	98.29303	46.05289	186.73682	8.63987	0.0371379	0.26226228	2.4171977	20	9 28.9	19.2
222477 2001 SG_{84}	17.0	X	286.37731	176.69284	198.47722	4.80574	0.1900214	0.25515835	2.4618572	20	7 12.7	19.8
222478 2001 SE_{87}	16.7	X	261.09651	133.52389	298.36695	3.38498	0.1759968	0.25852630	2.4404293	20	8 28.0	19.8
222479 2001 SH_{89}	17.1	X	299.93981	2.98454	321.25230	5.41249	0.1228538	0.25159563	2.4850434	20	6 1.0	20.0
222480 2001 SV_{91}	16.9	X	58.94615	53.89219	203.12625	4.63105	0.0802366	0.25926372	2.4357996	20	9 14.5	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222481 2001 SZ_{107}	15.3	X	199.14832	180.58503	249.95412	8.59042	0.2699798	0.24259809	2.5461138	20	6 15.1	19.8
222482 2001 SX_{109}	16.8	X	113.12496	86.13203	218.75239	21.10776	0.1206854	0.37600725	1.9011012	20	—	—
222483 2001 SH_{122}	17.2	X	332.89923	110.54177	233.84947	4.19088	0.1170087	0.25797389	2.4439119	20	9 1.2	19.6
222484 2001 SW_{134}	17.5	X	219.71708	128.20039	192.81610	4.55332	0.3126869	0.23995128	2.5648030	20	2 17.7	22.3
222485 2001 SH_{147}	16.3	X	169.56724	39.99155	11.50668	21.94299	0.0622387	0.24100783	2.5573016	20	4 18.6	20.2
222486 2001 SP_{154}	16.0	X	320.71731	331.75246	9.50442	6.61894	0.1566696	0.25451920	2.4659770	20	8 4.2	18.3
222487 2001 SZ_{165}	17.2	X	259.09580	157.88984	288.29194	0.39259	0.1607659	0.25959878	2.4337032	20	9 18.1	19.8
222488 2001 SF_{174}	14.6	X	161.73463	238.79510	80.20178	3.98268	0.2097020	0.12441113	3.9740186	20	1 16.5	21.0
222489 2001 SO_{181}	17.4	X	321.11278	213.12669	127.46017	2.30012	0.1970184	0.25773147	2.4454441	20	7 27.7	19.4
222490 2001 SA_{227}	15.0	X	150.38861	206.10750	133.28128	3.47290	0.2702146	0.12417603	3.9790330	20	2 1.8	21.4
222491 2001 SJ_{234}	16.8	X	255.72571	353.15294	51.90313	3.37116	0.0785401	0.25168585	2.4844496	20	7 31.0	19.9
222492 2001 SF_{246}	17.4	X	239.76472	315.38615	19.21586	5.94786	0.2743762	0.24271895	2.5452684	20	3 21.9	21.9
222493 2001 SC_{249}	15.8	X	348.99064	203.25971	29.38637	14.79184	0.1221586	0.24122136	2.5557922	20	4 14.8	18.4
222494 2001 SV_{251}	16.8	X	244.65360	189.28201	190.67103	3.93070	0.1924444	0.24684418	2.5168314	20	5 27.8	20.6
222495 2001 SJ_{264}	17.7	X	0.64158	222.14716	203.19208	21.88775	0.1059325	0.37672059	1.8987006	20	—	—
222496 2001 SC_{276}	16.7	X	6.75834	86.99542	289.40071	18.62505	0.1016751	0.37079500	1.9188755	20	—	—
222497 2001 SJ_{282}	15.9	X	137.74722	86.69612	345.68036	27.38329	0.3760259	0.23282286	2.6168910	20	4 24.6	21.2
222498 2001 SQ_{293}	17.7	X	210.96951	31.72404	14.49247	2.44400	0.1909580	0.24637317	2.5200381	20	5 28.2	21.8
222499 2001 SN_{302}	17.3	X	284.15423	304.09049	346.62301	1.59112	0.1676156	0.24469039	2.5315787	20	3 18.6	20.8
222500 2001 SF_{313}	16.7	X	324.10014	306.67945	57.04592	7.03904	0.1180155	0.25806854	2.4433143	20	9 20.7	19.1
222501 2001 ST_{315}	15.8	X	234.94846	43.90048	333.40893	9.19533	0.2009949	0.24391329	2.5369529	20	5 9.9	20.1
222502 2001 TK_{5}	16.2	X	245.11974	345.83824	57.00349	6.64368	0.1066666	0.25219481	2.4811058	20	7 8.9	19.7
222503 2001 TE_{9}	15.8	X	210.91560	86.50273	313.46467	6.43024	0.1938696	0.24171871	2.5522852	20	5 18.9	20.1
222504 2001 TQ_{11}	16.9	X	219.85208	231.36099	204.10468	6.22374	0.1402897	0.25001041	2.4955368	20	7 17.1	20.7
222505 2001 TJ_{13}	17.2	X	282.23815	240.16512	201.11859	20.09421	0.0949913	0.36705305	1.9318949	20	12 1.7	18.9
222506 2001 TN_{13}	16.8	X	8.34512	170.69900	210.27289	21.54446	0.0891004	0.37101513	1.9181165	20	—	—
222507 2001 TV_{15}	15.5	X	53.67765	91.31746	36.65651	21.81046	0.0523192	0.23515405	2.5995673	20	3 17.7	19.1
222508 2001 TS_{25}	17.3	X	172.57827	93.06131	289.33326	3.18701	0.2464669	0.23712778	2.5851223	20	3 27.2	21.8
222509 2001 TR_{44}	16.2	X	214.18973	82.14635	350.21992	7.29592	0.3175165	0.24249594	2.5468287	20	6 27.0	20.9
222510 2001 TJ_{46}	17.1	X	124.37124	29.27203	236.77827	19.29818	0.0549842	0.37103639	1.9180432	20	—	—
222511 2001 TX_{47}	15.9	X	238.54587	318.94524	54.48235	15.97996	0.1548580	0.24534706	2.5270596	20	5 15.9	19.6
222512 2001 TU_{56}	17.1	X	49.88854	101.39668	216.37465	20.69685	0.0469243	0.36698876	1.9321205	20	12 15.6	19.5
222513 2001 TM_{66}	16.6	X	166.18332	25.95951	40.22172	4.04107	0.2049343	0.23923991	2.5698847	20	5 14.5	20.8
222514 2001 TA_{86}	16.9	X	246.12475	93.95476	217.58556	7.60072	0.2601638	0.24185562	2.5513219	20	2 25.4	21.4
222515 2001 TN_{90}	16.1	X	272.75117	81.64986	236.16256	7.37396	0.2435308	0.24586545	2.5235062	20	3 28.8	20.1
222516 2001 TX_{102}	16.6	X	189.44762	24.37957	7.32848	17.72677	0.1921854	0.23939219	2.5687947	20	4 17.1	21.0
222517 2001 TY_{128}	14.6	X	173.34863	116.28060	193.70902	8.92898	0.0978085	0.12352264	3.9930524	20	1 9.8	20.8
222518 2001 TQ_{139}	16.9	X	301.29994	258.92582	68.79993	5.04014	0.1456264	0.25210486	2.4816960	20	6 5.4	19.7
222519 2001 TF_{149}	16.6	X	266.86328	228.21071	77.18010	6.60632	0.2479575	0.24316322	2.5421673	20	3 13.5	20.7
222520 2001 TD_{160}	14.6	X	147.70957	296.09340	31.11297	8.27520	0.2753201	0.12318898	4.0002593	20	1 20.2	21.3
222521 2001 TH_{161}	14.3	X	219.56190	264.85869	2.21895	9.30997	0.1864144	0.12613832	3.9376583	20	1 3.9	20.7
222522 2001 TR_{166}	15.6	X	148.10640	195.52226	263.54941	13.55342	0.0669473	0.24129427	2.5552773	20	6 1.6	19.1
222523 2001 TP_{175}	16.5	X	289.03987	148.97892	208.25911	10.90572	0.2902909	0.25291854	2.4763704	20	6 4.7	19.7
222524 2001 TW_{198}	16.4	X	231.49817	270.25418	33.51788	16.39104	0.2748221	0.23964105	2.5670160	20	2 15.4	21.3
222525 2001 TB_{228}	16.4	X	354.83175	220.25927	359.83401	4.51490	0.1167308	0.24130324	2.5552140	20	4 5.7	19.0
222526 2001 UX	17.1	X	83.95116	272.34311	35.60311	22.10323	0.0742238	0.37221082	1.9140064	20	—	—
222527 2001 UL_{2}	17.3	X	339.28455	193.95081	219.93658	22.87340	0.1347277	0.37160431	1.9160884	20	—	—
222528 2001 UJ_{11}	17.6	X	292.98991	47.80511	41.01921	21.41218	0.0900116	0.36800211	1.9285719	20	—	—
222529 2001 UY_{23}	15.8	X	148.56964	153.88603	329.37147	8.96924	0.2043260	0.24355760	2.5394222	20	7 12.3	20.0
222530 2001 UP_{33}	17.2	X	215.16657	300.42625	85.30765	6.22715	0.2456865	0.24287628	2.5441691	20	5 5.8	21.6
222531 2001 UC_{41}	16.6	X	3.00039	284.87253	94.64754	3.15316	0.1895357	0.26417034	2.4055442	20	12 31.5	19.1
222532 2001 UT_{45}	16.4	X	177.73885	15.71112	65.16356	4.30437	0.1237739	0.24310878	2.5425468	20	6 12.1	20.2
222533 2001 UY_{46}	16.6	X	114.68259	276.21717	122.87711	4.91560	0.2234742	0.22900852	2.6458687	20	2 27.1	20.4
222534 2001 UD_{64}	16.4	X	259.48484	111.82784	223.19543	15.59630	0.2311731	0.24540571	2.5266569	20	4 8.2	20.5
222535 2001 UP_{74}	16.5	X	234.68078	135.23884	196.03940	8.56136	0.1786649	0.23927304	2.5696474	20	3 17.2	20.7
222536 2001 UR_{136}	17.3	X	47.97663	1.17713	7.66302	20.30710	0.0822327	0.37879037	1.8917777	20	—	—
222537 2001 UH_{140}	16.9	X	334.12602	265.41427	52.53865	7.96729	0.1719748	0.25277639	2.4772987	20	7 25.2	19.1
222538 2001 UG_{170}	16.3	X	97.51974	135.88608	262.20695	3.40604	0.1063112	0.22619094	2.6677958	20	1 17.5	19.7
222539 2001 UE_{171}	15.6	X	55.43786	253.52497	235.24131	13.06863	0.0769053	0.23094097	2.6310881	20	3 5.7	19.1
222540 2001 UA_{173}	16.6	X	262.34692	93.19771	207.24051	8.14111	0.1620331	0.23916489	2.5704220	20	3 5.9	20.5
222541 2001 UQ_{175}	15.1	X	228.16689	344.17616	62.18042	7.63340	0.3271380	0.24030383	2.5622938	20	6 3.8	19.6
222542 2001 UX_{196}	17.1	X	254.19738	272.14584	64.53234	7.71189	0.2857376	0.24617425	2.5213955	20	4 6.1	21.3
222543 2001 UX_{215}	17.1	X	143.51780	67.23502	35.03460	4.83917	0.2152417	0.23920818	2.5701119	20	6 9.6	21.5
222544 2001 UD_{219}	15.7	X	306.69151	78.33157	227.18436	11.73902	0.1327448	0.24280433	2.5446717	20	5 15.4	18.6
222545 2001 UZ_{219}	16.8	X	142.14902	160.80039	325.68598	3.24112	0.0980545	0.24357379	2.5393098	20	7 3.9	20.5
222546 2001 VS_{2}	17.3	X	291.81985	275.92102	225.72467	19.80488	0.0693051	0.37462311	1.9057811	20	—	—
222547 2001 VX_{2}	17.0	X	310.73447	12.76801	46.78692	23.53703	0.0756694	0.36519299	1.9384492	20	12 14.9	18.9
222548 2001 VE_{4}	15.8	X	162.02139	352.20362	75.37587	12.73191	0.1401830	0.23416780	2.6068613	20	5 13.1	19.9
222549 2001 VH_{9}	16.2	X	152.53981	317.32576	126.15274	4.04851	0.1900972	0.23724464	2.5842733	20	5 25.0	20.4
222550 2001 VT_{11}	16.1	X	221.59157	322.51215	33.91675	18.37089	0.2377004	0.23992339	2.5650017	20	4 7.9	20.6
222551 2001 VB_{13}	16.5	X	187.82341	352.76140	42.79539	4.45530	0.1969908	0.23801546	2.5786908	20	4 25.4	20.8
222552 2001 VJ_{13}	17.1	X	261.07793	76.22606	39.30186	21.40922	0.1056624	0.36519674	1.9384359	20	12 8.4	18.8
222553 2001 VQ_{24}	16.8	X	203.31174	215.14932	226.41484	2.09251	0.2148486	0.24455652	2.5325025	20	7 4.5	21.0
222554 2001 VN_{26}	16.8	X	193.49567	117.44572	345.95017	0.37905	0.1700712	0.24556614	2.5255563	20	7 26.0	20.8
222555 2001 VA_{28}	15.9	X	184.25510	351.36880	44.53762	5.34142	0.2148221	0.23749522	2.5824552	20	4 23.2	20.2
222556 2001 VB_{32}	16.0	X	170.95207	114.18868	266.77149	4.24908	0.1005967	0.23236224	2.6203482	20	3 17.8	20.0
222557 2001 VN_{34}	15.8	X	226.88092	131.70173	235.99664	4.62713	0.1664339	0.23970672	2.5665471	20	4 25.5	19.8
222558 2001 VS_{36}	16.5	X	212.17586	165.66309	251.51643	2.51485	0.1402416	0.24245576	2.5471101	20	6 15.9	20.4
222559 2001 VS_{40}	16.6	X	184.79121	118.51472	282.74627	3.37170	0.2093958	0.23757764	2.5818579	20	4 28.4	21.1
222560 2001 VY_{46}	15.5	X	187.23526	345.13278	78.25221	15.16673	0.2091934	0.23798844	2.5788860	20	5 30.1	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222561 2001 VG_{62}	17.0	X	154.98785	204.49905	257.86541	4.97597	0.2496056	0.23988534	2.5652729	20	6 21.1	21.3
222562 2001 VU_{65}	16.8	X	193.36653	46.04795	33.17761	6.90268	0.2153588	0.24274709	2.5450717	20	6 22.9	21.1
222563 2001 VK_{66}	15.7	X	162.68319	178.39389	252.32303	7.99758	0.1407158	0.23790123	2.5795162	20	5 14.7	19.7
222564 2001 VF_{70}	16.8	X	170.60942	78.80110	14.79543	7.59582	0.1183439	0.24180040	2.5517104	20	6 21.3	20.8
222565 2001 VK_{84}	16.4	X	174.17638	96.64605	56.38880	8.37341	0.0325245	0.25365707	2.4715614	20	9 20.7	19.8
222566 2001 VR_{84}	15.7	X	309.50840	302.88169	2.09374	12.55643	0.1415276	0.24616042	2.5214899	20	5 12.5	18.8
222567 2001 VP_{85}	17.2	X	167.56081	66.43079	348.65742	2.59752	0.1710672	0.23776449	2.5805051	20	4 30.3	21.5
222568 2001 VR_{85}	16.4	X	132.08474	193.10405	268.21938	4.15982	0.1261559	0.23794215	2.5792204	20	5 21.8	20.1
222569 2001 VD_{95}	16.3	X	174.89112	336.41392	114.42872	14.66347	0.2029637	0.24056774	2.5604195	20	6 23.0	20.6
222570 2001 VJ_{96}	15.9	X	195.44360	350.35133	105.38123	15.25952	0.2168279	0.24411071	2.5355849	20	7 15.9	20.1
222571 2001 VT_{107}	15.6	X	292.60614	39.97784	257.64566	9.90195	0.1174419	0.23997350	2.5646446	20	4 11.9	19.0
222572 2001 VE_{114}	16.5	X	176.39799	30.00033	31.99182	4.80655	0.2403386	0.23861170	2.5743933	20	5 17.9	21.0
222573 2001 VB_{121}	16.4	X	137.14544	64.16684	64.53264	4.96413	0.2365711	0.23660224	2.5889489	20	7 9.5	20.9
222574 2001 VP_{121}	16.2	X	153.94619	328.59340	116.72123	4.37753	0.2022784	0.23862877	2.5742705	20	5 28.9	20.5
222575 2001 VV_{122}	16.0	X	174.23752	63.73453	5.70313	14.74940	0.2127453	0.23719107	2.5846624	20	5 21.4	20.6
222576 2001 VX_{125}	16.6	X	280.17825	256.19433	56.01346	2.94442	0.1438706	0.24158055	2.5532582	20	4 15.6	20.0
222577 2001 WA	15.7	X	109.92067	182.21435	269.36842	5.28844	0.1150546	0.23214923	2.6219509	20	4 10.2	19.5
222578 2001 WX_{5}	16.1	X	349.07271	339.97994	242.31047	9.57670	0.0617434	0.23632757	2.5909545	20	3 31.8	19.5
222579 2001 WF_{6}	17.0	X	182.30717	245.17637	219.14532	4.85948	0.2008453	0.24507369	2.5289384	20	7 14.8	21.3
222580 2001 WT_{12}	16.0	X	217.19174	295.80066	87.89899	14.09374	0.2132039	0.24115264	2.5562777	20	5 9.2	20.4
222581 2001 WW_{18}	16.6	X	134.99955	93.95520	28.18962	4.39506	0.2639844	0.23965837	2.5668923	20	6 30.9	21.0
222582 2001 WO_{23}	15.7	X	87.36407	223.66768	266.63781	11.90132	0.1916437	0.23032624	2.6357675	20	5 15.7	19.4
222583 2001 WT_{30}	15.6	X	269.78350	217.05006	70.26812	11.67306	0.1099867	0.23545495	2.5973521	20	3 12.7	19.5
222584 2001 WR_{35}	16.2	X	157.35826	350.15167	80.72358	8.75081	0.1393874	0.23700886	2.5859870	20	5 12.1	20.2
222585 2001 WC_{42}	17.0	X	148.76683	40.85310	71.97952	5.33235	0.0886275	0.24258678	2.5461928	20	6 22.2	20.6
222586 2001 WW_{43}	17.0	X	225.00995	252.75211	115.74128	1.32123	0.1398280	0.24114910	2.5563027	20	4 27.6	20.9
222587 2001 WH_{44}	14.6	X	63.02826	52.26476	63.49189	6.01907	0.1561975	0.12308223	4.0025720	20	3 30.3	19.9
222588 2001 WX_{46}	15.9	X	190.88227	86.41176	251.13564	6.93534	0.1323690	0.22954903	2.6417137	20	2 13.9	20.2
222589 2001 WB_{49}	16.9	X	227.03240	57.59539	326.67324	1.09207	0.1217730	0.24160500	2.5530860	20	5 20.6	20.8
222590 2001 WE_{68}	16.3	X	305.71027	223.48597	50.25946	7.75347	0.1040860	0.23957822	2.5674648	20	4 6.7	19.5
222591 2001 WG_{101}	17.3	X	206.97559	350.26116	56.30571	2.41075	0.1695747	0.24208082	2.5497394	20	5 26.3	21.3
222592 2001 XJ_{2}	15.9	X	144.24719	85.70645	25.80079	27.64246	0.1738549	0.23908764	2.5709757	20	6 15.1	20.6
222593 2001 XJ_{4}	16.9	X	356.74151	72.23881	259.98382	18.51838	0.0747802	0.35976500	1.9578982	20	10 11.5	19.1
222594 2001 XM_{4}	17.0	X	274.68001	294.44592	89.37530	23.86407	0.0950384	0.35323700	1.9819465	20	8 7.5	19.2
222595 2001 XP_{4}	16.6	X	180.14387	71.16912	79.31722	23.66208	0.0855059	0.35552370	1.9734389	20	10 17.3	19.6
222596 2001 XB_{6}	15.8	X	249.00048	129.87851	222.20340	2.51090	0.1113407	0.23933935	2.5691728	20	5 4.5	19.4
222597 2001 XE_{7}	16.9	X	240.43516	172.82421	197.28352	13.10427	0.3319138	0.24460978	2.5321349	20	4 30.8	21.5
222598 2001 XT_{10}	16.4	X	250.67594	239.28252	59.71981	12.65054	0.1430967	0.23528210	2.5986241	20	3 3.6	20.6
222599 2001 XZ_{14}	15.5	X	103.62802	53.96468	63.45693	12.37488	0.1488249	0.22971253	2.6404600	20	5 14.8	19.1
222600 2001 XJ_{16}	15.5	X	209.25917	168.37052	285.84105	34.21040	0.2047841	0.24222346	2.5487383	20	7 20.6	19.8
222601 2001 XY_{17}	15.9	X	160.11595	165.34630	287.81776	13.75447	0.1092547	0.23802278	2.5786379	20	6 9.8	20.0
222602 2001 XV_{21}	15.7	X	136.86081	114.21571	301.50625	13.75900	0.0789695	0.22860014	2.6490189	20	3 17.4	19.8
222603 2001 XM_{23}	16.0	X	183.65695	7.66016	71.70050	11.57249	0.1481861	0.23822953	2.5771458	20	6 15.4	20.1
222604 2001 XS_{27}	16.3	X	106.67799	99.22445	54.10974	5.39174	0.2730242	0.23180848	2.6245197	20	7 17.4	20.6
222605 2001 XY_{28}	15.1	X	207.37280	66.38404	316.68410	15.78357	0.2822695	0.23806149	2.5783584	20	4 15.9	20.1
222606 2001 XC_{35}	15.9	X	127.04757	186.57640	312.90303	9.30227	0.1847778	0.24073808	2.5592116	20	7 11.8	19.9
222607 2001 XY_{37}	15.5	X	281.43312	272.63569	23.63333	10.90167	0.1271258	0.23579836	2.5948297	20	3 30.9	19.1
222608 2001 XT_{43}	16.2	X	155.58331	63.48554	42.69608	9.33941	0.1251008	0.23817645	2.5775287	20	6 21.9	20.2
222609 2001 XJ_{51}	17.4	X	168.46323	179.21877	222.96615	1.81118	0.2027383	0.23585525	2.5944124	20	4 16.9	21.7
222610 2001 XG_{56}	16.7	X	195.57599	329.34415	111.77151	8.66833	0.2401988	0.24218597	2.5490013	20	6 26.6	21.1
222611 2001 XJ_{57}	15.7	X	260.71610	116.16320	245.79681	8.27156	0.1025833	0.24230128	2.5481925	20	6 2.3	19.0
222612 2001 XJ_{67}	15.9	X	18.88286	200.09701	266.90505	13.75452	0.1831952	0.21796910	2.7344675	20	—	—
222613 2001 XZ_{67}	16.4	X	149.09857	349.08562	77.82372	5.40886	0.2628426	0.23197453	2.6232671	20	5 5.6	20.9
222614 2001 XE_{70}	16.3	X	120.13143	13.51938	90.83244	5.16745	0.1131297	0.23670090	2.5882295	20	5 12.6	19.9
222615 2001 XL_{70}	16.5	X	153.46355	9.65073	97.78237	5.02119	0.1481787	0.24121099	2.5558655	20	6 22.9	20.4
222616 2001 XF_{74}	16.6	X	191.29201	180.93139	200.36613	2.89746	0.1826562	0.23679465	2.5875463	20	4 10.5	21.0
222617 2001 XS_{79}	16.5	X	123.82543	295.25265	209.13255	3.08848	0.1409309	0.23846372	2.5754582	20	7 9.8	20.5
222618 2001 XZ_{79}	15.9	X	256.96263	149.17050	225.96020	12.38005	0.1336142	0.24477198	2.5310162	20	6 10.9	19.4
222619 2001 XH_{80}	16.0	X	253.81022	142.52222	209.83396	11.18135	0.2198450	0.24253387	2.5465631	20	4 28.5	20.0
222620 2001 XV_{82}	16.7	X	203.05676	192.43162	217.55256	4.22501	0.1840660	0.24081770	2.5586475	20	5 26.9	20.9
222621 2001 XH_{86}	15.9	X	225.87971	308.02257	120.28317	6.53931	0.2892181	0.24393157	2.5368262	20	7 2.2	20.1
222622 2001 XG_{89}	16.4	X	176.26910	30.33030	54.42769	15.71262	0.1415450	0.24210231	2.5495885	20	6 14.0	20.5
222623 2001 XZ_{92}	16.4	X	250.63269	46.78686	298.74663	2.48969	0.1551313	0.24090568	2.5580244	20	4 21.6	20.1
222624 2001 XE_{93}	15.6	X	322.76355	21.69947	250.39396	12.60227	0.2365761	0.24023371	2.5627924	20	4 1.1	18.6
222625 2001 XO_{95}	16.5	X	169.81534	151.51912	266.36718	2.30358	0.2025643	0.23704478	2.5857257	20	5 7.1	20.8
222626 2001 XY_{105}	16.2	X	248.50133	113.70728	233.58123	3.98984	0.1237434	0.24058190	2.5603190	20	4 25.6	19.9
222627 2001 XF_{106}	16.9	X	224.25793	220.08517	205.26118	1.30823	0.1053223	0.24591561	2.5231630	20	7 13.1	20.4
222628 2001 XG_{108}	15.4	X	189.62294	79.20094	272.07528	11.47255	0.2041973	0.23047599	2.6346257	20	2 27.9	20.1
222629 2001 XM_{108}	15.8	X	192.20520	288.71942	107.42737	11.53210	0.1496992	0.23520275	2.5992085	20	5 4.7	20.1
222630 2001 XY_{108}	16.2	X	130.38056	35.03881	83.34256	13.81126	0.2158984	0.23484585	2.6018412	20	6 18.7	20.5
222631 2001 XR_{114}	16.3	X	124.22964	91.40051	4.78530	4.23511	0.1657156	0.23264203	2.6182469	20	5 9.9	20.3
222632 2001 XL_{115}	15.7	X	111.58331	59.77653	310.99867	8.35883	0.2383170	0.22100003	2.7094086	20	1 22.0	19.3
222633 2001 XP_{115}	15.5	X	186.32721	345.73653	52.42955	6.09178	0.1905185	0.23480961	2.6021089	20	4 27.9	19.8
222634 2001 XZ_{117}	16.1	X	183.57124	49.79527	18.68068	5.07943	0.2054753	0.23689094	2.5868450	20	5 31.6	20.4
222635 2001 XN_{118}	15.6	X	160.60879	354.29528	81.51865	8.83337	0.1704735	0.23335257	2.6129293	20	5 22.1	19.8
222636 2001 XP_{121}	17.1	X	236.83737	168.65026	239.55561	1.55123	0.1524347	0.24659030	2.5185586	20	6 29.5	20.9
222637 2001 XY_{121}	17.0	X	196.94654	215.69880	194.22808	3.20762	0.1139419	0.24111901	2.5565154	20	5 23.5	20.8
222638 2001 XM_{122}	16.6	X	161.93373	302.05019	149.44674	0.94835	0.0922166	0.24067538	2.5596560	20	6 8.9	20.4
222639 2001 XZ_{124}	16.1	X	359.82240	328.54333	232.33354	11.73718	0.0559880	0.23346743	2.6120723	20	3 18.6	19.6
222640 2001 XY_{125}	16.3	X	224.09932	103.58959	231.50756	8.34587	0.2246700	0.23687040	2.5869946	20	3 8.6	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222641 2001 XJ_{131}	16.4	X	265.34255	244.67863	239.22872	5.39626	0.0774684	0.25953424	2.4341066	20	12 2.7	19.2
222642 2001 XA_{136}	16.5	X	176.23085	200.55696	220.49287	2.62510	0.0561156	0.23761318	2.5816005	20	5 15.1	20.1
222643 2001 XZ_{137}	15.7	X	194.48453	138.11988	246.72320	13.23014	0.0775271	0.23551384	2.5969191	20	4 15.4	19.7
222644 2001 XT_{156}	17.0	X	180.54991	320.51035	92.83803	6.74338	0.2485574	0.23736791	2.5833785	20	5 12.9	21.5
222645 2001 XE_{160}	16.0	X	218.63341	228.43593	156.40632	1.63091	0.1334044	0.23798012	2.5789461	20	5 12.5	19.8
222646 2001 XN_{169}	15.8	X	200.05327	93.56692	266.57734	8.97418	0.1050868	0.23157663	2.6262711	20	3 19.4	20.1
222647 2001 XN_{173}	16.1	X	75.23840	201.13114	265.07594	2.50793	0.1097165	0.22613007	2.6682745	20	3 14.7	19.3
222648 2001 XX_{173}	16.3	X	140.16427	320.03416	117.36741	5.28434	0.1328716	0.23241213	2.6199732	20	5 2.8	20.3
222649 2001 XL_{174}	16.8	X	142.10201	278.46352	160.75033	2.62058	0.1967066	0.23313154	2.6145806	20	5 10.5	21.1
222650 2001 XX_{174}	16.1	X	161.77505	343.87264	94.89297	6.16414	0.1341886	0.23564477	2.5959571	20	5 25.4	20.1
222651 2001 XX_{177}	16.5	X	133.94749	164.68208	269.61443	1.05308	0.0694387	0.23036099	2.6355024	20	4 12.9	20.1
222652 2001 XP_{182}	16.3	X	164.20478	278.67370	110.97078	13.92466	0.1953547	0.23018241	2.6368654	20	4 4.8	20.9
222653 2001 XC_{184}	16.5	X	159.54381	283.15011	170.41617	3.35534	0.1799968	0.23617225	2.5920904	20	6 12.1	20.7
222654 2001 XH_{185}	15.9	X	85.32999	262.83151	254.78213	6.50210	0.1314973	0.23372454	2.6101563	20	6 11.3	19.2
222655 2001 XW_{186}	16.3	X	220.30205	103.03746	272.91260	3.53111	0.3234143	0.23966846	2.5668203	20	4 21.7	20.9
222656 2001 XZ_{187}	16.2	X	186.42748	259.61644	148.47272	3.97833	0.2380259	0.23632347	2.5909845	20	5 10.7	20.8
222657 2001 XF_{188}	16.3	X	143.46248	184.60640	275.02716	5.37770	0.0917164	0.23445765	2.6047124	20	5 29.4	20.2
222658 2001 XJ_{194}	16.3	X	263.11166	281.23097	127.05373	2.84210	0.2176200	0.24635046	2.5201930	20	7 22.0	19.5
222659 2001 XD_{211}	15.4	X	134.32268	266.78834	250.85021	11.57295	0.2086134	0.24053221	2.5606716	20	8 6.3	19.9
222660 2001 XL_{217}	16.4	X	198.38194	317.85112	98.68294	5.00717	0.1568767	0.23820564	2.5773181	20	6 1.1	20.4
222661 2001 XD_{218}	15.6	X	5.73833	1.03191	241.21507	12.46827	0.0952279	0.24259469	2.5461375	20	5 30.3	18.4
222662 2001 XR_{221}	15.6	X	337.25467	215.68539	51.72341	9.89668	0.2090411	0.24258042	2.5462373	20	5 4.0	17.7
222663 2001 XU_{228}	16.8	X	168.99233	45.05064	5.53684	2.23648	0.1505816	0.23596508	2.5936073	20	4 25.7	20.9
222664 2001 XV_{233}	16.5	X	191.31954	310.97885	67.91158	8.54812	0.2007357	0.23596569	2.5936029	20	4 11.3	20.9
222665 2001 XP_{234}	16.5	X	196.99087	294.07028	69.60278	12.87525	0.2932482	0.23632390	2.5909813	20	3 31.3	21.4
222666 2001 XK_{254}	16.4	X	269.63060	291.15978	59.42461	10.94167	0.2536614	0.24476023	2.5310972	20	5 9.1	20.2
222667 2001 YN_{7}	16.2	X	195.38100	323.92274	79.03713	5.08386	0.1155930	0.23813759	2.5778090	20	5 13.1	20.0
222668 2001 YT_{8}	16.1	X	123.60686	143.38836	285.31151	4.48126	0.1200747	0.22971622	2.6404317	20	3 28.6	20.0
222669 2001 YV_{10}	16.3	X	187.44555	56.35429	348.65419	3.52399	0.1764996	0.23447506	2.6045835	20	5 5.4	20.6
222670 2001 YJ_{19}	15.8	X	207.30851	250.90149	99.24285	15.78644	0.1808908	0.23135298	2.6279634	20	3 25.5	20.5
222671 2001 YT_{20}	17.0	X	196.01172	128.32599	291.31112	2.88200	0.1661835	0.24180046	2.5517099	20	6 1.7	21.0
222672 2001 YS_{21}	16.9	X	204.09740	4.23158	63.17326	3.46581	0.1993740	0.24345345	2.5401464	20	6 17.9	21.1
222673 2001 YL_{27}	16.7	X	197.68513	315.03878	60.31956	4.40150	0.0822922	0.23521837	2.5990935	20	4 11.4	20.4
222674 2001 YD_{33}	15.8	X	246.25875	45.64382	292.54179	5.74817	0.0547379	0.23638514	2.5905339	20	4 16.6	19.5
222675 2001 YM_{34}	15.6	X	238.26649	63.63060	261.32944	15.18866	0.2285512	0.23610339	2.5925944	20	3 3.3	20.3
222676 2001 YZ_{39}	16.0	X	112.18839	71.24296	68.83395	12.96331	0.2330501	0.23566806	2.5957861	20	6 30.9	20.2
222677 2001 YR_{50}	16.2	X	171.13202	357.22247	70.88617	5.55617	0.1092163	0.23690420	2.5867485	20	5 19.9	20.2
222678 2001 YR_{53}	16.1	X	146.99382	170.74757	281.75849	4.00825	0.1891036	0.23593383	2.5938363	20	5 30.1	20.4
222679 2001 YY_{54}	15.8	X	286.99361	223.85660	66.50107	5.65490	0.1829537	0.23629573	2.5911873	20	3 23.4	19.4
222680 2001 YU_{67}	15.7	X	108.61484	30.04210	90.55580	13.54614	0.1353799	0.23256695	2.6188104	20	5 24.7	19.5
222681 2001 YO_{84}	15.9	X	92.43616	335.71319	101.90184	11.20376	0.1028775	0.22400240	2.6851441	20	3 6.6	19.6
222682 2001 YZ_{86}	15.9	X	178.35359	330.97489	97.21819	9.14234	0.2145704	0.23647446	2.5898815	20	5 29.1	20.4
222683 2001 YG_{96}	16.2	X	150.59731	4.15108	73.91764	8.76825	0.1619930	0.23322815	2.6138585	20	5 15.2	20.3
222684 2001 YA_{112}	16.1	X	233.88519	299.53903	74.29396	3.55583	0.2019409	0.24040566	2.5615702	20	5 8.6	20.2
222685 2001 YF_{115}	16.3	X	218.76688	2.72385	7.12083	5.44343	0.3270324	0.23885594	2.5726380	20	4 13.8	21.0
222686 2001 YY_{116}	16.5	X	206.51511	308.58482	89.48730	5.70642	0.3141955	0.23865705	2.5740672	20	5 11.9	21.2
222687 2001 YN_{122}	16.0	X	151.93416	99.79638	9.29042	5.07435	0.3037854	0.23761998	2.5815512	20	6 28.9	20.8
222688 2001 YF_{126}	16.4	X	326.27529	338.96458	24.02463	6.85133	0.1471192	0.25174362	2.4840695	20	9 19.8	18.6
222689 2001 YT_{161}	16.6	X	290.27056	175.37105	283.90321	17.09046	0.0938032	0.36094305	1.9536358	20	—	—
222690 2002 AB_{6}	15.3	X	103.28774	136.21427	300.98994	21.19079	0.0311018	0.22697690	2.6616336	20	2 23.9	19.2
222691 2002 AU_{7}	15.7	X	89.89847	316.63085	102.67372	18.68583	0.0994062	0.22083440	2.7107631	20	2 5.9	19.3
222692 2002 AF_{8}	16.8	X	173.10811	217.47403	150.00316	2.14073	0.0684443	0.22470697	2.6795283	20	3 4.9	20.6
222693 2002 AO_{9}	16.0	X	78.33601	195.18766	301.55984	7.15385	0.1638915	0.22791475	2.6543271	20	5 6.7	19.5
222694 2002 AY_{9}	15.9	X	82.12355	145.73360	312.67690	10.31886	0.2196647	0.22396388	2.6854520	20	3 27.5	19.5
222695 2002 AT_{13}	16.1	X	207.98137	66.81926	19.40371	4.11607	0.2925975	0.24081500	2.5586665	20	7 11.0	20.6
222696 2002 AK_{15}	16.6	X	160.07567	30.46389	22.02179	12.93685	0.2780468	0.23306082	2.6151094	20	4 24.1	21.2
222697 2002 AZ_{15}	16.4	X	174.40463	350.22343	84.02409	5.15680	0.2211759	0.23579982	2.5948190	20	6 1.3	20.7
222698 2002 AY_{17}	15.0	X	145.31438	250.60510	196.79392	15.48850	0.2803430	0.23420778	2.6065647	20	5 28.5	19.8
222699 2002 AP_{26}	15.9	X	153.24208	81.04749	344.39312	3.56733	0.1750436	0.23066281	2.6332029	20	4 30.1	20.2
222700 2002 AR_{47}	15.9	X	205.73927	247.78701	120.15338	15.76469	0.2016286	0.23263932	2.6182672	20	4 13.5	20.6
222701 2002 AJ_{50}	16.2	X	72.63702	355.37525	126.53972	4.60015	0.0576179	0.22568420	2.6717877	20	3 28.1	19.6
222702 2002 AS_{58}	15.9	X	134.17363	165.10926	283.71202	4.47105	0.1952332	0.23077305	2.6323643	20	5 13.3	20.1
222703 2002 AG_{71}	16.7	X	213.01074	96.15502	289.17974	11.30880	0.3108659	0.24088994	2.5581359	20	4 25.6	21.6
222704 2002 AY_{74}	16.4	X	222.33631	317.32802	49.43908	3.91815	0.2106340	0.23632565	2.5909685	20	4 19.1	20.8
222705 2002 AL_{76}	16.5	X	155.12622	24.71946	34.14082	2.84822	0.0568020	0.23091676	2.6312720	20	4 17.4	20.2
222706 2002 AC_{78}	16.6	X	153.44277	329.19614	99.19949	6.30222	0.1538052	0.23273721	2.6175330	20	5 6.2	20.7
222707 2002 AE_{80}	16.2	X	259.93745	302.14996	312.47241	4.03167	0.0632694	0.22031412	2.7150291	20	1 21.5	20.2
222708 2002 AD_{86}	16.5	X	177.31817	230.29289	175.71056	4.97155	0.3197683	0.23536643	2.5980033	20	5 2.1	21.3
222709 2002 AF_{90}	16.0	X	168.00178	267.84507	169.07459	6.36661	0.3093372	0.23506618	2.6002151	20	6 1.6	20.8
222710 2002 AN_{91}	16.1	X	101.12932	284.43296	166.10458	5.97564	0.0904811	0.22356721	2.6886276	20	3 29.4	19.7
222711 2002 AL_{99}	16.3	X	162.01087	285.72661	98.45370	7.30062	0.0667501	0.22579771	2.6708922	20	3 16.6	20.2
222712 2002 AX_{99}	15.8	X	66.02363	21.33042	79.74995	3.88281	0.1091448	0.22234453	2.6984751	20	2 26.8	19.0
222713 2002 AV_{105}	16.0	X	128.84706	345.51664	110.87127	4.12537	0.1551729	0.23145275	2.6272081	20	5 16.4	20.0
222714 2002 AP_{109}	16.3	X	217.71226	62.89826	314.49724	3.93028	0.3372872	0.23731822	2.5837391	20	4 20.9	21.3
222715 2002 AE_{110}	16.4	X	166.06272	81.58437	87.95590	3.37319	0.0740541	0.24541239	2.5266111	20	9 27.2	20.1
222716 2002 AQ_{114}	15.6	X	164.86738	244.81826	117.42324	13.56935	0.0924269	0.22243227	2.6977654	20	2 22.7	19.7
222717 2002 AM_{122}	16.3	X	206.62555	325.78057	112.19029	6.07767	0.2629155	0.24040674	2.5615625	20	6 30.4	20.6
222718 2002 AC_{125}	16.4	X	172.58406	275.10404	138.04617	13.48170	0.2593414	0.23188815	2.6239185	20	5 9.9	21.3
222719 2002 AY_{130}	16.3	X	192.66664	290.77395	123.02795	5.89455	0.2799773	0.23670362	2.5882096	20	5 22.1	21.0
222720 2002 AB_{137}	16.3	X	164.52718	220.59881	138.52893	5.79479	0.0679213	0.22336895	2.6902183	20	2 14.1	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222721 2002 AW_{147}	16.8	X	146.26065	28.21518	41.33165	5.44853	0.1765484	0.23105470	2.6302247	20	4 30.2	21.0
222722 2002 AO_{149}	16.5	X	108.36341	130.24313	322.59297	1.74764	0.1422415	0.22845203	2.6501637	20	4 15.6	20.2
222723 2002 AU_{153}	15.8	X	289.13297	140.55611	356.82196	4.48990	0.0555329	0.20421380	2.8559197	20	—	—
222724 2002 AF_{159}	15.9	X	106.64816	258.81093	146.05383	6.52155	0.0667102	0.21890837	2.7266400	20	2 2.5	19.4
222725 2002 AR_{159}	15.7	X	206.38373	130.20358	282.88890	4.06562	0.2378012	0.23757953	2.5818442	20	5 30.9	20.2
222726 2002 AS_{161}	16.3	X	157.32385	174.57948	295.89607	3.02592	0.2517165	0.23618216	2.5920178	20	7 3.1	20.7
222727 2002 AG_{164}	15.7	X	123.44448	276.94226	146.94561	14.78586	0.0695922	0.22345276	2.6895456	20	3 22.1	19.6
222728 2002 AE_{170}	16.4	X	343.97363	109.22353	47.89720	3.46567	0.0452608	0.21788331	2.7351852	20	1 6.9	19.9
222729 2002 AX_{170}	16.4	X	196.36137	104.10619	298.65152	1.88180	0.2563391	0.23660062	2.5889607	20	5 9.7	21.1
222730 2002 AR_{171}	16.5	X	106.74173	90.36180	332.92293	4.41269	0.1360010	0.22413842	2.6840577	20	3 6.2	20.1
222731 2002 AM_{174}	16.5	X	168.75814	57.07240	18.05647	2.31352	0.1003574	0.23376280	2.6098714	20	5 25.5	20.4
222732 2002 AX_{180}	15.7	X	95.27735	158.02519	354.07524	11.67407	0.1172335	0.23496882	2.6009333	20	6 13.7	19.5
222733 2002 AT_{183}	16.4	X	66.57066	156.87746	342.98243	4.14407	0.1246641	0.22893975	2.6463985	20	4 18.2	19.7
222734 2002 AG_{187}	15.9	X	158.68590	14.19561	66.51692	7.71311	0.2445384	0.23451515	2.6042866	20	5 27.9	20.4
222735 2002 AV_{187}	16.2	X	146.14086	305.47257	127.80510	13.26824	0.2251624	0.23528116	2.5986310	20	5 12.4	20.8
222736 2002 AJ_{189}	15.6	X	70.17008	236.18207	246.63142	12.62008	0.2333324	0.22499911	2.6772084	20	4 16.7	19.0
222737 2002 AU_{190}	16.8	X	133.42908	345.91594	88.53045	3.87446	0.1426272	0.22898137	2.6460779	20	4 22.4	20.7
222738 2002 AJ_{195}	16.7	X	135.80185	261.86103	176.83077	3.62954	0.1842778	0.23012646	2.6372927	20	5 3.2	20.8
222739 2002 AD_{196}	16.2	X	163.34043	357.52981	339.32829	5.24562	0.0272110	0.21731646	2.7399394	20	1 14.3	20.0
222740 2002 BK_{4}	15.4	X	171.34743	61.21419	50.03582	13.60555	0.1433523	0.23949751	2.5680415	20	7 17.3	19.7
222741 2002 BK_{5}	15.8	X	134.13533	115.63344	331.23636	30.44729	0.2627202	0.23219846	2.6215803	20	5 2.1	20.9
222742 2002 BL_{5}	16.2	X	149.57497	54.56108	25.15281	18.57492	0.2096794	0.23305447	2.6151569	20	5 12.9	20.7
222743 2002 BT_{6}	16.6	X	136.49061	24.05105	47.24799	6.78835	0.2446341	0.23139612	2.6276368	20	4 28.8	21.0
222744 2002 BQ_{11}	16.0	X	29.71517	183.01941	302.49138	2.31884	0.1362658	0.21890226	2.7266908	20	1 30.2	18.9
222745 2002 BM_{14}	15.9	X	119.55852	303.29731	147.04878	13.19606	0.1447188	0.22719223	2.6599516	20	5 1.1	20.1
222746 2002 BA_{23}	15.8	X	126.86467	4.39896	47.04969	13.19077	0.1671709	0.22726120	2.6594134	20	3 24.8	19.9
222747 2002 BE_{29}	16.0	X	172.05290	303.06875	98.14565	18.53430	0.2476387	0.23226036	2.6211145	20	4 28.8	20.9
222748 2002 BG_{30}	15.4	X	116.32603	73.10077	24.83460	17.13950	0.2335884	0.23109746	2.6299002	20	5 8.3	19.7
222749 2002 CP_{2}	16.4	X	139.26936	70.47693	36.40159	5.21339	0.1391920	0.23320227	2.6140519	20	6 6.6	20.4
222750 2002 CD_{4}	15.7	X	118.99933	72.04599	40.33004	12.59094	0.2151532	0.22960936	2.6412509	20	5 29.5	20.0
222751 2002 CW_{16}	17.4	X	244.05416	99.31437	306.26867	18.47989	0.0475487	0.34852583	1.9997670	20	7 27.4	19.4
222752 2002 CA_{17}	16.3	X	112.37107	58.90085	30.64220	3.52919	0.0511934	0.22768182	2.6561370	20	4 4.9	19.8
222753 2002 CY_{25}	14.9	X	203.29124	36.89785	50.33828	13.04636	0.3692345	0.23994426	2.5648530	20	7 5.4	19.9
222754 2002 CA_{29}	16.6	X	184.66961	21.21109	41.37963	5.33940	0.2547591	0.23624396	2.5915658	20	5 25.1	21.1
222755 2002 CH_{29}	15.6	X	306.40121	224.28178	335.93651	12.45328	0.1367827	0.21536199	2.7564916	20	1 1.2	19.7
222756 2002 CQ_{32}	16.2	X	224.76555	2.16681	41.21626	6.25513	0.2751814	0.23947626	2.5681935	20	5 31.3	20.5
222757 2002 CK_{39}	16.4	X	16.06751	160.80387	314.98376	3.67852	0.0789707	0.21504819	2.7591725	20	—	—
222758 2002 CP_{41}	15.7	X	26.21829	243.64709	247.66047	8.60342	0.0964014	0.21710205	2.7417431	20	1 29.2	19.1
222759 2002 CQ_{44}	16.8	X	138.97921	131.34508	296.19468	1.64777	0.1095984	0.22939215	2.6429180	20	4 13.9	20.6
222760 2002 CJ_{47}	16.3	X	95.33103	138.44785	303.13969	11.07625	0.1564492	0.22401581	2.6850370	20	3 13.3	20.0
222761 2002 CT_{52}	16.1	X	174.57622	54.62712	16.22141	5.47625	0.2327933	0.23577233	2.5950207	20	5 26.9	20.6
222762 2002 CD_{54}	15.8	X	90.83269	108.29687	324.90423	11.89244	0.1044862	0.21979832	2.7192750	20	2 22.6	19.2
222763 2002 CM_{65}	15.8	X	55.24832	31.82607	74.52174	10.53061	0.0501881	0.21830381	2.7316717	20	2 14.1	19.4
222764 2002 CY_{65}	15.5	X	235.43767	227.81577	14.71202	13.78425	0.0619786	0.20973816	2.8055483	20	—	—
222765 2002 CC_{77}	15.7	X	100.75213	147.61333	329.17372	13.82123	0.2351237	0.22833470	2.6510715	20	5 16.4	19.9
222766 2002 CD_{78}	15.8	X	104.63529	18.80543	3.42359	4.87208	0.0353464	0.21347968	2.7726711	20	—	—
222767 2002 CB_{81}	15.7	X	69.06349	144.85237	331.47530	12.61656	0.0688274	0.22175040	2.7032929	20	3 11.9	19.3
222768 2002 CR_{81}	16.2	X	47.15716	123.61438	3.51902	3.03601	0.1290204	0.22021691	2.7158280	20	3 3.7	19.0
222769 2002 CS_{86}	16.5	X	101.98274	278.88290	144.12293	4.28330	0.1585825	0.22195127	2.7016616	20	3 4.8	20.0
222770 2002 CS_{90}	16.3	X	117.38317	88.54617	345.80172	2.24378	0.1270658	0.22397912	2.6853302	20	3 31.9	20.2
222771 2002 CV_{92}	17.2	X	73.08304	30.84114	100.37037	2.31019	0.1643343	0.22543983	2.6737181	20	4 25.4	20.4
222772 2002 CT_{96}	15.7	X	81.31339	291.58624	145.80804	11.58365	0.1126490	0.21793982	2.7347124	20	2 17.6	19.1
222773 2002 CB_{97}	12.9	X	292.37206	59.27708	350.36036	16.52501	0.0262370	0.08221978	5.2378352	20	9 10.8	19.7
222774 2002 CJ_{103}	15.5	X	340.36681	170.50604	352.14142	11.35778	0.1707352	0.21289722	2.7777259	20	—	—
222775 2002 CS_{104}	15.9	X	161.93907	312.00731	149.89643	16.02114	0.2734760	0.23431003	2.6058063	20	6 26.9	20.8
222776 2002 CV_{121}	16.4	X	339.12430	323.07252	171.06702	3.16334	0.1349299	0.21225248	2.7833481	20	—	—
222777 2002 CA_{130}	15.4	X	83.71804	272.39667	320.60211	7.64123	0.2320741	0.18362646	3.0655792	20	9 21.3	20.2
222778 2002 CK_{137}	16.2	X	47.09340	256.85283	175.61713	8.92812	0.1637787	0.21575252	2.7531643	20	—	—
222779 2002 CS_{137}	16.0	X	294.16589	157.47996	28.96201	4.07579	0.0347222	0.21280132	2.7785603	20	—	—
222780 2002 CY_{141}	15.8	X	141.11747	281.12758	164.19957	12.50747	0.2226112	0.23038282	2.6353360	20	5 21.0	20.4
222781 2002 CX_{142}	16.5	X	29.79961	329.31898	163.85360	5.46763	0.1088894	0.22063203	2.7124205	20	2 8.3	19.6
222782 2002 CV_{160}	16.1	X	69.39049	21.41697	92.15423	10.63868	0.0728739	0.22399684	2.6851886	20	3 18.4	19.7
222783 2002 CO_{171}	16.1	X	68.84419	30.01306	85.08927	6.56924	0.1080215	0.22259405	2.6964581	20	3 22.6	19.5
222784 2002 CF_{179}	16.2	X	122.52992	316.17683	73.48767	2.57796	0.0939877	0.22002933	2.7173714	20	2 8.1	20.0
222785 2002 CK_{183}	13.2	X	51.94000	170.14260	130.04538	6.71576	0.0328653	0.08636403	5.0689044	20	10 1.4	19.9
222786 2002 CK_{184}	16.0	X	237.32610	93.46859	141.68850	5.25817	0.1045131	0.20943220	2.8082801	20	—	—
222787 2002 CQ_{197}	16.4	X	134.46526	296.37257	118.36848	3.23551	0.1999635	0.22586058	2.6703966	20	4 4.3	20.5
222788 2002 CS_{197}	16.8	X	103.25002	68.52617	343.51961	2.71463	0.2161686	0.22101719	2.7092683	20	2 29.1	20.6
222789 2002 CU_{200}	16.2	X	359.50256	181.56356	329.67558	2.45986	0.0153395	0.21618333	2.7495054	20	1 23.2	19.7
222790 2002 CB_{205}	13.1	X	1.35658	5.11249	337.52176	7.77537	0.0312715	0.08333133	5.1911533	20	9 15.2	19.9
222791 2002 CG_{205}	13.6	X	254.63898	97.22610	349.62285	2.94213	0.0847045	0.08446277	5.1446897	20	9 2.5	20.5
222792 2002 CL_{205}	16.5	X	67.98703	311.69541	148.95489	5.82234	0.0786901	0.21958070	2.7210714	20	2 23.9	19.8
222793 2002 CO_{205}	16.4	X	39.38266	193.29370	331.71003	1.06284	0.0182520	0.22381259	2.6866620	20	4 1.2	19.7
222794 2002 CV_{207}	15.4	X	116.23977	283.69795	341.15201	15.46842	0.2097620	0.19274469	2.9681176	20	11 23.3	20.7
222795 2002 CC_{212}	16.1	X	157.03629	198.08253	125.00463	5.31006	0.0631328	0.21180074	2.7873044	20	—	—
222796 2002 CQ_{213}	16.5	X	115.31550	260.94148	130.74230	4.08920	0.0585015	0.21644051	2.7473270	20	1 27.4	20.2
222797 2002 CU_{221}	16.1	X	71.18741	1.33918	158.31499	11.79137	0.1366564	0.22491609	2.6778672	20	5 28.9	19.8
222798 2002 CP_{222}	16.7	X	76.45824	350.04469	64.50316	2.52208	0.0757575	0.21466307	2.7624716	20	1 8.0	20.2
222799 2002 CF_{227}	16.3	X	336.70303	313.31658	176.31206	7.97526	0.0962905	0.21129257	2.7917717	20	—	—
222800 2002 CY_{232}	15.4	X	129.37309	241.41408	142.34491	11.92402	0.0307325	0.21559045	2.7545440	20	1 30.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222801 2002 CZ_{232}	16.0	X	45.18424	172.19707	298.68587	3.91591	0.0666211	0.21961540	2.7207848	20	2 2.0	19.1
222802 2002 CC_{233}	16.5	X	124.13525	291.46598	146.35970	6.89602	0.1523255	0.22798162	2.6538079	20	4 18.9	20.5
222803 2002 CF_{234}	15.7	X	141.45287	51.54313	356.20006	12.96840	0.2556515	0.22795662	2.6540020	20	4 2.1	20.1
222804 2002 CS_{235}	15.3	X	62.99656	143.68968	354.95774	12.56044	0.2425799	0.22416385	2.6838547	20	4 26.8	18.6
222805 2002 CO_{247}	16.4	X	109.27870	109.08085	349.60754	14.99788	0.3012543	0.22629147	2.6670056	20	5 7.7	21.0
222806 2002 CM_{252}	16.3	X	151.25032	227.44567	194.81286	4.47106	0.2287361	0.23101668	2.6305132	20	4 29.3	20.8
222807 2002 CV_{253}	16.7	X	37.65121	59.21461	63.18292	3.49815	0.1322090	0.21889114	2.7267831	20	2 10.8	19.7
222808 2002 CY_{254}	16.1	X	330.35329	354.60529	231.11316	7.31287	0.1613248	0.22111158	2.7084972	20	2 25.6	19.5
222809 2002 CX_{255}	16.4	X	92.15863	221.69944	224.85573	3.09506	0.1885644	0.22219726	2.6996673	20	3 25.2	19.9
222810 2002 CB_{259}	16.2	X	294.95846	359.36043	200.25679	4.46164	0.0448421	0.21449069	2.7639515	20	—	—
222811 2002 CP_{261}	16.1	X	172.38284	31.23415	23.69784	6.49598	0.2666162	0.23228147	2.6209556	20	5 6.3	20.8
222812 2002 CK_{266}	16.2	X	78.12644	290.52230	108.01438	5.75380	0.1456743	0.21493634	2.7601296	20	—	—
222813 2002 CH_{282}	16.7	X	225.80465	129.42539	152.74600	4.42629	0.0308092	0.21571190	2.7535099	20	1 18.7	20.6
222814 2002 CU_{285}	16.0	X	207.74054	343.04621	301.82432	3.87116	0.0965426	0.21374425	2.7703826	20	1 2.8	20.1
222815 2002 CA_{288}	15.5	X	61.55952	276.52715	247.04382	11.73077	0.1444471	0.22641392	2.6660439	20	5 18.1	18.7
222816 2002 CG_{294}	16.2	X	41.35999	85.56593	22.84379	9.52751	0.0988894	0.21915890	2.7245617	20	1 29.6	19.5
222817 2002 CA_{296}	16.4	X	101.74182	244.12749	149.25354	5.50401	0.0698750	0.21384534	2.7695095	20	1 14.0	20.0
222818 2002 CB_{297}	16.0	X	37.09576	87.02613	353.37979	5.99476	0.0327240	0.20976005	2.8053531	20	—	—
222819 2002 CA_{298}	16.3	X	124.64280	199.06604	236.20570	1.05360	0.0391931	0.22535630	2.6743787	20	3 30.4	20.0
222820 2002 CT_{304}	16.7	X	68.68892	297.81593	181.09324	12.82654	0.2219911	0.22327048	2.6910092	20	4 12.2	19.8
222821 2002 CB_{316}	13.1	X	312.22625	236.94965	167.51418	7.07216	0.0379747	0.08152202	5.2676803	20	9 27.3	19.9
222822 2002 DN_{6}	16.3	X	247.83199	64.96920	165.98701	4.59738	0.0132934	0.21046174	2.7991141	20	—	—
222823 2002 DP_{6}	16.4	X	170.54461	125.84825	252.19364	1.27827	0.0646291	0.22207273	2.7006765	20	3 14.3	20.2
222824 2002 DP_{7}	16.1	X	152.04756	321.04993	104.84176	20.14628	0.2533721	0.23148651	2.6269527	20	5 12.7	21.0
222825 2002 DL_{8}	16.0	X	154.57020	339.85715	71.17647	12.97387	0.2590131	0.22995959	2.6385685	20	4 23.8	20.7
222826 2002 DS_{19}	13.6	X	293.44243	14.30969	45.78346	2.34472	0.0510539	0.08410843	5.1591287	20	9 21.6	20.3
222827 2002 DP_{20}	12.8	X	57.17052	226.30111	66.76602	5.21249	0.0247501	0.08236870	5.2315203	20	9 27.8	19.7
222828 2002 ER_{2}	15.7	X	136.06090	157.08421	86.96212	6.14042	0.2161886	0.18887108	3.0085628	20	11 19.6	20.8
222829 2002 EG_{7}	15.5	X	72.80796	83.46190	359.57953	6.31436	0.0213432	0.21283155	2.7782972	20	2 4.0	19.2
222830 2002 EL_{7}	16.4	X	87.15002	92.32703	358.56236	9.46383	0.2556726	0.22052297	2.7133147	20	4 2.9	20.0
222831 2002 EE_{8}	12.6	X	278.55629	76.81249	347.81425	11.43495	0.0671637	0.08159265	5.2646403	20	9 6.5	19.5
222832 2002 EY_{12}	17.1	X	69.91566	66.13032	56.23905	4.23593	0.2700004	0.22263351	2.6961395	20	4 25.9	20.3
222833 2002 EL_{13}	15.2	X	314.42228	156.87834	55.68383	8.68627	0.2013354	0.21458122	2.7631740	20	1 16.9	19.0
222834 2002 EE_{15}	16.4	X	98.39662	116.07906	300.26411	3.84046	0.1139590	0.21838220	2.7310179	20	2 13.1	19.9
222835 2002 ED_{18}	16.4	X	179.52445	112.26463	189.31314	2.11447	0.0469651	0.20924227	2.8099792	20	—	—
222836 2002 ES_{19}	14.8	X	67.86154	252.51913	1.71582	16.50041	0.2234862	0.17951606	3.1121977	20	9 30.8	19.3
222837 2002 EG_{30}	16.0	X	82.44067	343.26853	147.23524	7.15908	0.1669779	0.22384237	2.6864237	20	5 9.8	19.6
222838 2002 EO_{52}	16.3	X	99.99995	95.47899	349.10094	4.48434	0.0553969	0.22004470	2.7172449	20	3 13.9	19.8
222839 2002 EN_{54}	16.4	X	332.92441	8.47479	143.78872	4.71934	0.0445315	0.20994811	2.8036776	20	—	—
222840 2002 EC_{57}	12.9	X	351.82601	69.09698	296.44707	5.01435	0.0901658	0.08464558	5.1372794	20	9 28.9	19.3
222841 2002 EF_{59}	16.0	X	240.10451	36.70258	212.74898	2.16307	0.0167168	0.21083466	2.7958125	20	—	—
222842 2002 EE_{78}	15.2	X	111.01488	270.73871	17.23616	10.43293	0.0812877	0.19127930	2.9832575	20	12 11.5	19.9
222843 2002 EB_{80}	13.1	X	254.58187	314.22186	144.43804	5.99509	0.1017707	0.08455564	5.1409218	20	9 14.6	20.0
222844 2002 EH_{82}	12.7	X	226.43094	203.10495	290.90136	5.15888	0.1335777	0.08287733	5.2100939	20	9 18.8	20.0
222845 2002 EL_{82}	16.0	X	178.75563	1.95908	225.77850	0.97996	0.0374259	0.19659839	2.9292026	20	12 14.7	20.3
222846 2002 EN_{82}	15.9	X	89.59011	60.97230	183.80794	5.93862	0.2107196	0.18331979	3.0689971	20	10 12.2	20.7
222847 2002 EL_{85}	12.7	X	257.83141	294.37167	161.93400	9.45392	0.0954003	0.08189480	5.2516830	20	9 15.4	19.7
222848 2002 EC_{95}	16.5	X	91.39733	67.37034	39.49390	2.95883	0.1760335	0.22357150	2.6885931	20	4 19.2	20.1
222849 2002 EH_{99}	16.0	X	207.47333	17.58455	86.61222	6.63920	0.2234301	0.24195433	2.5506280	20	8 7.2	20.3
222850 2002 EC_{100}	16.1	X	41.93446	235.25627	245.59285	6.15521	0.1220456	0.21765875	2.7370661	20	2 11.4	19.2
222851 2002 EA_{109}	13.4	X	249.48120	93.50195	5.88359	0.60586	0.1102328	0.08210907	5.2425427	20	9 7.7	20.5
222852 2002 EB_{114}	16.1	X	93.76843	207.61955	77.03724	1.56966	0.1566534	0.19065491	2.9897673	20	11 27.5	20.6
222853 2002 EH_{117}	16.9	X	132.26402	24.10823	62.67822	3.06517	0.2349058	0.22757308	2.6569831	20	5 13.4	21.1
222854 2002 EL_{119}	13.1	X	255.99303	191.09553	282.62602	3.50813	0.0632071	0.08397967	5.1644010	20	10 4.8	20.0
222855 2002 EY_{121}	16.2	X	110.79065	112.06202	167.18855	2.49133	0.0531499	0.19454861	2.9497415	20	12 1.5	20.5
222856 2002 EK_{125}	16.2	X	7.26279	94.58579	27.98403	5.17881	0.1133703	0.21160616	2.7890129	20	—	—
222857 2002 EP_{125}	15.3	X	227.40349	266.58622	316.29660	10.24934	0.0404137	0.20304592	2.8668604	20	—	—
222858 2002 EU_{128}	16.5	X	37.47174	97.91096	52.38337	2.35709	0.0440428	0.21969186	2.7201535	20	3 13.7	19.8
222859 2002 EX_{128}	12.4	X	317.80264	49.08231	345.70427	13.76500	0.0816484	0.08252714	5.2248224	20	9 17.4	19.1
222860 2002 EX_{129}	15.4	X	321.61796	16.62762	155.90519	17.12016	0.1399526	0.21423145	2.7661808	20	—	—
222861 2002 EZ_{134}	12.8	X	317.18747	62.72139	350.00621	6.72297	0.0994027	0.08366644	5.1772826	20	10 5.6	19.3
222862 2002 EA_{136}	13.4	X	255.52905	284.76937	167.99021	6.43237	0.0518330	0.08155468	5.2662741	20	9 13.8	20.4
222863 2002 EP_{136}	16.0	X	328.02143	84.28767	24.16563	2.10999	0.0225916	0.20240053	2.8729514	20	—	—
222864 2002 ET_{136}	12.8	X	289.45143	248.87491	169.52919	21.10783	0.1075137	0.08208295	5.2436548	20	9 6.4	19.6
222865 2002 EJ_{150}	15.8	X	94.14575	2.56246	3.24067	12.32392	0.0463195	0.20449240	2.8533252	20	—	—
222866 2002 EX_{150}	15.9	X	45.59288	274.90845	167.69388	5.88657	0.0395295	0.20932439	2.8092442	20	—	—
222867 2002 ES_{154}	15.9	X	186.96885	201.93462	153.97955	7.07212	0.0497606	0.22069742	2.7118847	20	3 5.9	19.7
222868 2002 EA_{162}	16.5	X	142.02818	244.38347	190.94917	5.42170	0.1814955	0.22958004	2.6414757	20	5 4.7	20.6
222869 2002 FB_{6}	17.8	X	173.78890	101.85371	182.69599	33.70798	0.5449868	0.40930263	1.7965516	20	—	—
222870 2002 FM_{8}	15.7	X	287.27781	301.67892	217.33085	6.99022	0.1272417	0.20374199	2.8603270	20	—	—
222871 2002 FA_{27}	13.1	X	237.59179	86.70675	26.21823	12.68108	0.0945613	0.08469520	5.1352728	20	9 16.9	20.2
222872 2002 GF	15.6	X	111.49762	109.69051	87.74297	26.44074	0.2508105	0.23545670	2.5973393	20	9 26.3	20.6
222873 2002 GL	15.7	X	157.47010	202.42067	104.06999	3.12782	0.0509457	0.20251689	2.8718509	20	—	—
222874 2002 GR_{13}	15.8	X	142.57693	232.61937	32.37464	9.92085	0.0360852	0.19270199	2.9685561	20	12 17.1	20.2
222875 2002 GX_{13}	15.2	X	22.91034	86.29953	206.81915	20.10696	0.2780528	0.17452672	3.1712326	20	9 25.3	19.0
222876 2002 GO_{41}	15.5	X	213.08201	354.87953	235.63859	5.97310	0.0745978	0.19987563	2.8970955	20	—	—
222877 2002 GG_{45}	15.4	X	85.61555	299.30964	16.02952	10.49236	0.0892540	0.19166042	2.9793013	20	12 18.8	20.0
222878 2002 GH_{49}	15.8	X	112.87489	53.08873	212.63837	4.71386	0.1591366	0.18676907	3.0310940	20	11 22.7	20.7
222879 2002 GO_{64}	16.1	X	287.34134	355.75378	153.92964	3.02954	0.1918157	0.20033400	2.8926747	20	—	—
222880 2002 GQ_{64}	15.1	X	102.55404	220.34215	45.21695	11.28100	0.0653446	0.18615109	3.0377987	20	11 5.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222881 2002 GQ_{69}	15.4	X	74.74209	77.95349	188.55063	11.71840	0.0697400	0.18252909	3.0778539	20	10 5.7	19.8
222882 2002 GV_{72}	15.5	X	137.05292	95.14619	147.57107	6.03118	0.1576409	0.18893897	3.0078420	20	11 18.6	20.5
222883 2002 GP_{83}	15.7	X	279.96562	127.91426	50.70902	12.47485	0.1167059	0.20190946	2.8776079	20	—	—
222884 2002 GK_{86}	15.4	X	64.19746	106.70609	180.92276	21.14165	0.2027897	0.18175165	3.0866246	20	11 7.9	20.2
222885 2002 GC_{91}	15.3	X	88.45751	59.07779	205.12290	13.62892	0.1396907	0.18250738	3.0780979	20	10 26.8	20.0
222886 2002 GM_{91}	15.6	X	103.71715	87.41121	194.66472	9.45506	0.0482504	0.19088967	2.9873155	20	11 26.7	20.1
222887 2002 GS_{91}	16.1	X	32.00506	296.01212	171.35950	7.90089	0.1904593	0.21228782	2.7830393	20	1 10.7	19.0
222888 2002 GY_{92}	15.0	X	47.10739	105.30216	201.13872	24.43799	0.2609101	0.18194269	3.0844636	20	11 17.6	19.6
222889 2002 GU_{95}	15.4	X	167.20437	214.63001	9.12693	10.35675	0.0499657	0.19088509	2.9873633	20	11 22.4	20.0
222890 2002 GB_{111}	14.9	X	26.62822	250.19946	92.57033	6.73346	0.1660545	0.18518875	3.0483137	20	11 23.1	18.8
222891 2002 GB_{112}	15.6	X	35.61386	335.40392	87.88163	7.83872	0.0668444	0.20290702	2.8681685	20	—	—
222892 2002 GR_{116}	15.3	X	69.06466	148.87748	170.51011	11.46427	0.0603947	0.18978958	2.9988481	20	12 3.8	19.8
222893 2002 GM_{130}	16.4	X	275.91526	312.73764	237.54561	1.90169	0.1003743	0.20327786	2.8646792	20	—	—
222894 2002 GB_{138}	15.7	X	54.03230	252.46711	239.93144	6.23249	0.1197841	0.21685501	2.7438250	20	3 18.2	19.1
222895 2002 GF_{138}	14.9	X	305.39057	147.47351	202.52457	14.76225	0.0906052	0.17555051	3.1588911	20	7 14.9	19.4
222896 2002 GN_{140}	16.1	X	96.83033	209.71997	169.66821	2.13686	0.0857333	0.20413381	2.8566657	20	—	—
222897 2002 GJ_{162}	15.5	X	77.31090	124.76685	149.22119	2.14821	0.1937576	0.18324330	3.0698511	20	11 2.3	20.2
222898 2002 GB_{165}	15.5	X	217.63253	148.44643	51.79448	11.35523	0.0738038	0.19445347	2.9507036	20	12 20.5	19.8
222899 2002 GU_{169}	15.8	X	157.71695	200.07194	8.08608	5.45961	0.1649919	0.18700311	3.0285645	20	10 24.2	20.8
222900 2002 GZ_{179}	17.6	X	173.73225	240.46205	51.75185	2.89528	0.1820783	0.30777402	2.1726082	20	—	—
222901 2002 GH_{180}	16.1	X	96.38355	209.17886	134.61175	1.68811	0.0168061	0.19778073	2.9175170	20	—	—
222902 2002 GQ_{181}	16.0	X	82.05761	255.28479	3.43713	1.22530	0.1446716	0.18167791	3.0874597	20	10 13.3	20.6
222903 2002 GS_{181}	15.4	X	162.99512	31.15719	208.38393	11.05089	0.0428032	0.19152907	2.9806632	20	12 10.0	19.9
222904 2002 GR_{184}	15.5	X	26.75347	140.61905	209.95274	11.51772	0.1158266	0.18588771	3.0406675	20	11 25.6	19.6
222905 2002 HD_{5}	16.0	X	217.99030	71.09622	135.21115	7.85655	0.2563021	0.19575477	2.9376123	20	12 9.2	20.7
222906 2002 HQ_{6}	15.0	X	35.63646	67.81038	231.54584	14.65802	0.2533542	0.17738861	3.1370317	20	10 20.7	19.1
222907 2002 HV_{10}	15.0	X	45.55719	74.68556	225.79996	15.67455	0.2387984	0.17784764	3.1316315	20	11 3.4	19.3
222908 2002 HF_{18}	15.9	X	41.80717	108.06642	183.85810	0.85247	0.1521389	0.17766852	3.1337359	20	10 6.6	20.1
222909 2002 JU_{1}	15.5	X	167.22627	32.56244	220.82361	22.07599	0.1493955	0.19224199	2.9732897	20	12 22.9	20.6
222910 2002 JP_{32}	15.5	X	67.35315	89.43354	191.24933	5.24698	0.1549055	0.17938151	3.1137538	20	10 25.6	20.0
222911 2002 JZ_{45}	14.9	X	76.92171	43.17787	228.81608	16.26900	0.2527195	0.18129146	3.0918457	20	11 4.3	19.8
222912 2002 JB_{54}	15.5	X	99.71153	233.99330	44.08287	17.93354	0.2176114	0.18422980	3.0588825	20	11 25.9	20.7
222913 2002 JA_{67}	17.8	X	279.56329	125.54301	118.64373	2.92062	0.1708120	0.31620262	2.1338264	20	1 4.6	20.6
222914 2002 JW_{76}	15.4	X	49.84409	276.17602	25.94478	15.39512	0.2953717	0.18059672	3.0997701	20	11 15.2	20.1
222915 2002 JD_{83}	15.2	X	30.49077	284.55444	32.58853	11.16232	0.0715403	0.18197074	3.0841466	20	10 13.9	19.3
222916 2002 JL_{98}	15.2	X	98.41443	216.77672	21.11407	8.76358	0.0714359	0.18136453	3.0910152	20	9 29.2	19.6
222917 2002 JS_{98}	14.9	X	21.73937	28.43645	264.82630	7.38625	0.1919328	0.17302333	3.1895759	20	9 8.5	18.8
222918 2002 JM_{105}	15.5	X	117.89880	140.71027	91.05200	7.03655	0.2261445	0.18096167	3.0956010	20	10 24.0	20.8
222919 2002 JT_{108}	16.0	X	96.41024	198.66436	103.41608	25.02031	0.2552799	0.29385960	2.2406609	20	—	—
222920 2002 JQ_{141}	15.4	X	51.54653	273.19999	39.32385	9.75525	0.0806581	0.18401002	3.0613177	20	11 4.3	19.7
222921 2002 JG_{145}	15.0	X	143.62668	14.45433	183.92759	18.10619	0.1689715	0.18180696	3.0859985	20	10 1.7	20.0
222922 2002 JF_{147}	17.0	X	181.45071	352.09688	311.18187	4.39197	0.1922740	0.31011147	2.1616771	20	—	—
222923 2002 JZ_{148}	15.5	X	31.12926	284.33664	36.15120	10.24085	0.0894038	0.18187974	3.0851752	20	10 20.7	19.5
222924 2002 LO_{29}	15.2	X	92.52866	281.98300	48.66337	11.17588	0.0707450	0.19060148	2.9903260	20	—	—
222925 2002 LQ_{32}	14.4	X	2.17019	132.60065	202.98923	26.25580	0.1989761	0.17376336	3.1805135	20	10 3.5	18.0
222926 2002 LZ_{44}	15.2	X	34.80202	115.13298	195.75954	15.17334	0.2483489	0.17609832	3.1523365	20	11 5.4	19.4
222927 2002 LN_{53}	15.0	X	27.43003	60.64210	217.56265	20.63375	0.2201116	0.17130232	3.2109032	20	8 30.4	19.2
222928 2002 LA_{54}	15.0	X	356.12972	104.85452	210.74842	15.26565	0.1369336	0.17103329	3.2142695	20	8 16.9	19.2
222929 2002 LD_{62}	17.6	X	100.18589	146.92131	182.86622	2.83997	0.2200468	0.29412316	2.2393221	20	—	—
222930 2002 MT_{5}	17.4	X	90.38905	88.25431	239.79642	8.07001	0.2168844	0.29190845	2.2506343	20	—	—
222931 2002 NQ_{7}	17.5	X	52.48705	143.88677	212.89242	4.83600	0.3845078	0.28751928	2.2734814	20	—	—
222932 2002 NN_{11}	17.2	X	107.22524	170.92365	121.27422	10.22604	0.1615530	0.29184426	2.2509643	20	—	—
222933 2002 NO_{22}	17.0	X	95.48295	33.36091	288.21466	4.87398	0.2179052	0.29194297	2.2504569	20	—	—
222934 2002 NR_{61}	17.0	X	81.51366	22.73837	333.86994	7.37156	0.1531376	0.29476313	2.2360797	20	—	—
222935 2002 NT_{63}	17.4	X	116.76785	28.10118	311.25822	4.39879	0.1856980	0.29815593	2.2190840	20	—	—
222936 2002 OX	17.3	X	123.82111	117.76418	179.75693	6.11907	0.2343424	0.29457568	2.2370282	20	—	—
222937 2002 OY_{5}	15.0	X	308.88485	201.32354	225.23177	8.72409	0.0588714	0.17514787	3.1637305	20	11 1.6	19.1
222938 2002 OL_{9}	17.1	X	340.66807	152.94287	216.39915	3.62298	0.2697366	0.27834899	2.3231448	20	11 21.9	18.4
222939 2002 OO_{9}	17.3	X	12.38341	173.53392	173.44637	5.76558	0.1905034	0.28163903	2.3050171	20	12 6.9	19.9
222940 2002 OG_{19}	16.9	X	87.19493	238.45421	118.40689	8.67330	0.2079625	0.29438806	2.2379786	20	—	—
222941 2002 OU_{25}	17.0	X	133.47854	324.32417	347.16186	7.11654	0.1554463	0.29782075	2.2207487	20	—	—
222942 2002 OX_{27}	18.1	X	90.60556	173.14132	177.63787	3.52919	0.1479461	0.29471518	2.2363222	20	—	—
222943 2002 PN_{4}	17.2	X	171.33996	359.09293	245.78478	7.15686	0.0948068	0.29392228	2.2403423	20	—	—
222944 2002 PL_{11}	16.9	X	43.72957	128.59422	290.50165	5.40020	0.1055444	0.29732782	2.2232025	20	—	—
222945 2002 PA_{27}	16.9	X	181.17263	27.32033	298.58575	4.23186	0.0383811	0.30574817	2.1821946	20	1 6.9	19.5
222946 2002 PO_{29}	17.1	X	99.54147	67.80381	271.09022	2.72407	0.1923252	0.29401954	2.2398482	20	—	—
222947 2002 PV_{30}	16.9	X	328.98740	268.55851	265.60037	2.90974	0.0307599	0.30507242	2.1854158	20	—	—
222948 2002 PS_{49}	16.7	X	79.07285	174.64801	167.20922	5.74054	0.2273898	0.28805060	2.2706848	20	—	—
222949 2002 PU_{57}	16.3	X	70.31360	76.94072	301.00524	5.12363	0.1577758	0.29327527	2.2436361	20	—	—
222950 2002 PQ_{73}	17.6	X	67.68004	132.75344	218.99146	6.85038	0.1785119	0.29044574	2.2581842	20	—	—
222951 2002 PM_{98}	14.4	X	8.54823	272.10645	94.72513	10.34003	0.1829501	0.17039985	3.2222303	20	11 25.2	18.3
222952 2002 PQ_{108}	17.4	X	95.36717	252.61052	103.33516	5.73881	0.1903118	0.29542387	2.2327443	20	—	—
222953 2002 PS_{108}	17.6	X	94.29544	235.03047	81.43856	4.12366	0.1928124	0.29122032	2.2541783	20	—	—
222954 2002 PF_{120}	17.3	X	108.53132	129.59319	218.35425	4.19962	0.1313747	0.29595644	2.2300650	20	—	—
222955 2002 PM_{120}	17.3	X	127.04361	137.37299	189.74951	5.15797	0.1974167	0.29636802	2.2279998	20	—	—
222956 2002 PF_{129}	17.1	X	147.04409	235.16338	31.20481	8.48376	0.2822290	0.29327378	2.2436437	20	—	—
222957 2002 PR_{159}	17.1	X	120.39838	307.72926	329.43725	6.45324	0.1927922	0.29106843	2.2549624	20	12 31.1	20.7
222958 2002 PG_{185}	17.4	X	73.41006	287.06604	37.92163	6.19370	0.1446853	0.28743520	2.2739247	20	—	—
222959 2002 PH_{186}	17.2	X	51.58805	65.97996	13.56665	5.09397	0.1035334	0.30111987	2.2044983	20	—	—
222960 2002 QW_{15}	15.5	X	93.96526	14.83607	274.53083	23.97378	0.1498902	0.28348756	2.2949860	20	12 20.2	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
222961 2002 QC_{17}	17.6	X	127.67658	99.70326	211.25618	5.57641	0.2337878	0.29436966	2.2380718	20	—	—
222962 2002 QF_{21}	17.0	X	61.56072	23.72963	343.64884	7.41016	0.1316316	0.28999024	2.2605483	20	—	—
222963 2002 QP_{28}	17.6	X	109.15338	301.53215	22.02530	3.45560	0.2032218	0.29457946	2.2370090	20	—	—
222964 2002 QK_{41}	16.8	X	128.28541	298.27174	344.74171	7.33085	0.1807864	0.29308282	2.2446182	20	—	—
222965 2002 QJ_{45}	17.0	X	213.28486	111.55447	174.63155	1.79116	0.1651899	0.30462005	2.1875789	20	—	—
222966 2002 QY_{54}	16.9	X	7.03373	52.18312	359.57042	5.00166	0.1598848	0.28773795	2.2723294	20	—	—
222967 2002 QG_{71}	17.1	X	206.87358	151.99669	87.07866	4.00343	0.1109742	0.29706099	2.2245336	20	—	—
222968 2002 QO_{73}	17.2	X	86.85580	241.36510	102.95811	4.55103	0.1773193	0.29199883	2.2501699	20	—	—
222969 2002 QL_{88}	17.4	X	15.55621	88.64945	348.29766	7.23330	0.1601047	0.29276279	2.2462537	20	—	—
222970 2002 QP_{97}	17.5	X	55.39753	67.17317	6.17314	3.01375	0.1287491	0.30046213	2.2077144	20	—	—
222971 2002 QO_{105}	17.7	X	2.01780	11.93507	72.97901	3.75447	0.1103430	0.29392551	2.2403259	20	—	—
222972 2002 QW_{106}	17.5	X	126.95125	143.03963	163.19829	4.56856	0.0586828	0.29309972	2.2445319	20	—	—
222973 2002 QM_{107}	17.0	X	197.18604	25.05081	202.38037	2.35333	0.1064471	0.29436279	2.2381066	20	—	—
222974 2002 QQ_{116}	17.6	X	359.42448	26.19904	25.35467	3.03479	0.1543661	0.28686926	2.2769144	20	—	—
222975 2002 QK_{126}	15.1	X	198.25367	276.87388	118.19394	10.94626	0.0947690	0.14821205	3.5362833	20	5 11.6	20.7
222976 2002 QM_{133}	17.7	X	256.04271	232.76082	50.01644	3.17007	0.1857800	0.25584777	2.4574326	20	2 6.9	21.6
222977 2002 RK_{21}	17.5	X	31.20147	246.69466	119.32160	2.69710	0.2202566	0.28453500	2.2893503	20	—	—
222978 2002 RB_{24}	17.2	X	150.45310	316.71920	324.91956	2.73370	0.1673649	0.29387027	2.2406066	20	—	—
222979 2002 RJ_{26}	17.3	X	111.41378	125.97740	217.46799	6.20643	0.1295489	0.29561684	2.2317726	20	—	—
222980 2002 RF_{31}	16.9	X	48.07631	194.20641	192.85669	6.26838	0.1251166	0.29011919	2.2598784	20	—	—
222981 2002 RM_{40}	17.1	X	7.36806	12.05656	11.42580	5.53453	0.2428078	0.28309939	2.2970834	20	—	—
222982 2002 RG_{45}	16.5	X	148.80524	277.82100	11.03738	6.24893	0.1347969	0.29392804	2.2403130	20	—	—
222983 2002 RS_{45}	17.1	X	8.98453	1.14351	47.25064	2.52703	0.2201186	0.28570896	2.2830748	20	—	—
222984 2002 RQ_{51}	17.2	X	109.50857	216.84843	88.74464	2.25869	0.2473535	0.29004123	2.2602834	20	—	—
222985 2002 RZ_{53}	17.7	X	27.80422	268.39058	88.17196	1.78005	0.2434410	0.28301957	2.2975153	20	—	—
222986 2002 RQ_{55}	17.0	X	45.97314	180.15801	215.14189	5.15912	0.1598394	0.28971785	2.2619650	20	—	—
222987 2002 RQ_{59}	17.4	X	39.14455	208.86367	136.98136	2.71967	0.2237119	0.28274204	2.2990184	20	—	—
222988 2002 RP_{68}	17.0	X	77.31336	343.34041	10.33103	3.48534	0.1831593	0.29002723	2.2603561	20	—	—
222989 2002 RR_{77}	17.3	X	12.02711	303.70454	107.93993	0.36458	0.1882916	0.28697994	2.2763290	20	—	—
222990 2002 RE_{82}	16.7	X	349.76149	61.09956	333.22875	4.41686	0.1932909	0.28062230	2.3105813	20	—	—
222991 2002 RX_{88}	17.2	X	14.51886	297.01058	160.52237	4.42451	0.1095322	0.29585499	2.2305748	20	—	—
222992 2002 RK_{120}	17.1	X	91.54509	284.44014	89.04557	4.82234	0.1337910	0.29629903	2.2283457	20	—	—
222993 2002 RX_{129}	16.5	X	75.03591	311.95505	9.49886	24.65019	0.2294011	0.28664970	2.2780770	20	—	—
222994 2002 RQ_{151}	17.3	X	57.23296	202.46931	209.58148	8.62009	0.1886386	0.29390395	2.2404354	20	—	—
222995 2002 RT_{152}	16.9	X	72.49688	28.73603	291.39177	6.01115	0.1223634	0.28510397	2.2863035	20	—	—
222996 2002 RZ_{152}	16.6	X	33.03066	53.34429	295.70332	6.01854	0.1296035	0.28247450	2.3004698	20	12 28.0	19.3
222997 2002 RO_{157}	17.6	X	19.08464	119.27187	212.26911	3.26975	0.1822752	0.27893657	2.3198812	20	11 22.8	20.1
222998 2002 RG_{159}	16.8	X	56.49642	67.18936	338.40964	7.18240	0.1209599	0.29311012	2.2444788	20	—	—
222999 2002 RZ_{164}	17.5	X	69.03006	53.48996	337.67364	0.42391	0.1437634	0.29358079	2.2420792	20	—	—
223000 2002 RR_{173}	17.1	X	77.99477	332.59009	336.10831	2.24619	0.2081575	0.28502469	2.2867274	20	—	—
223001 2002 RQ_{177}	16.8	X	82.88316	153.64054	199.36687	6.30396	0.1446808	0.29082692	2.2562107	20	—	—
223002 2002 RS_{178}	17.5	X	59.20993	330.33349	3.64846	3.04050	0.2015095	0.28467560	2.2885964	20	—	—
223003 2002 RS_{184}	14.7	X	191.95933	196.45835	262.05593	9.06153	0.1168847	0.15379172	3.4502250	20	7 14.7	20.1
223004 2002 RU_{188}	18.2	X	357.34903	44.91018	337.08909	2.31431	0.2135409	0.28071320	2.3100825	20	—	—
223005 2002 RX_{188}	16.9	X	4.08893	268.03607	163.84597	6.14506	0.0602334	0.28997311	2.2606373	20	—	—
223006 2002 RA_{196}	17.4	X	12.99190	42.96215	359.85978	4.64820	0.2094129	0.28565624	2.2833557	20	—	—
223007 2002 RR_{202}	16.3	X	44.12741	75.99111	291.90443	4.77893	0.1886315	0.28631890	2.2798312	20	—	—
223008 2002 RN_{210}	17.3	X	329.03393	276.45257	187.60994	3.15906	0.1308156	0.28721807	2.2750706	20	—	—
223009 2002 RH_{211}	16.8	X	131.24049	263.99239	31.31201	10.28318	0.0959682	0.29180391	2.2511718	20	—	—
223010 2002 RA_{224}	16.6	X	113.81392	219.10030	92.37287	7.24486	0.2322454	0.29268515	2.2466509	20	—	—
223011 2002 RW_{234}	17.3	X	1.43347	308.15365	167.04378	6.20388	0.1390269	0.29684266	2.2256242	20	—	—
223012 2002 RS_{239}	15.3	X	86.62382	359.14899	257.54769	2.91496	0.0487355	0.16787829	3.2544156	20	10 1.1	20.0
223013 2002 RH_{241}	16.9	X	356.62308	204.49070	272.77488	2.85555	0.1654835	0.29577219	2.2309910	20	—	—
223014 2002 SA_{3}	16.6	X	15.85731	178.36661	221.46069	23.58250	0.1862687	0.28523511	2.2856026	20	—	—
223015 2002 SK_{3}	17.5	X	107.93730	261.45639	14.32876	3.13051	0.1473420	0.28455854	2.2892241	20	12 15.8	21.1
223016 2002 SJ_{6}	16.6	X	27.55097	10.51416	27.78845	6.78691	0.1891132	0.28626749	2.2801042	20	—	—
223017 2002 SW_{7}	16.8	X	114.12689	256.35974	38.32725	4.17621	0.1903541	0.28804689	2.2707043	20	—	—
223018 2002 SB_{12}	17.7	X	11.17785	254.20300	180.54476	0.53270	0.1554822	0.28802160	2.2708373	20	—	—
223019 2002 SC_{22}	16.9	X	137.21926	235.48581	12.76071	5.47122	0.2252953	0.28526612	2.2854370	20	12 6.9	20.9
223020 2002 SD_{24}	17.3	X	109.05985	132.90405	180.39893	3.36873	0.1646893	0.29020435	2.2594363	20	—	—
223021 2002 SL_{24}	16.7	X	309.52425	100.26247	34.07709	6.07507	0.0396821	0.28992334	2.2608961	20	—	—
223022 2002 SQ_{30}	16.7	X	130.65730	258.17000	50.43384	6.65997	0.2031202	0.29292508	2.2454239	20	—	—
223023 2002 SM_{35}	17.5	X	50.15851	182.53697	158.58530	4.59325	0.2348888	0.28360910	2.2943303	20	—	—
223024 2002 SV_{41}	16.3	X	282.02659	296.35700	197.32968	22.61293	0.2518521	0.28135408	2.3065732	20	—	—
223025 2002 SS_{42}	16.5	X	103.52901	132.96733	199.91159	6.21480	0.1425309	0.29060954	2.2573357	20	—	—
223026 2002 SB_{45}	17.7	X	30.69755	248.99773	119.26192	1.65236	0.2075430	0.28302465	2.2974878	20	—	—
223027 2002 ST_{51}	16.7	X	62.96786	272.38403	69.30551	7.61544	0.1651689	0.28651988	2.2787650	20	—	—
223028 2002 SL_{52}	16.8	X	335.87713	316.70034	80.24169	8.33557	0.0946324	0.27934837	2.3176007	20	12 2.6	19.1
223029 2002 SV_{71}	16.3	X	53.08132	200.55065	130.60348	8.71829	0.1643093	0.28297488	2.2977572	20	—	—
223030 2002 TD_{1}	16.7	X	25.74780	352.94805	50.80228	2.73833	0.1226678	0.28763238	2.2728853	20	—	—
223031 2002 TF_{13}	17.6	X	41.19090	356.21001	1.38011	3.47473	0.1544464	0.28343147	2.2952888	20	—	—
223032 2002 TT_{15}	16.5	X	3.89554	326.38713	27.00358	7.42771	0.2065130	0.27833006	2.3232502	20	12 2.0	18.9
223033 2002 TZ_{15}	17.5	X	358.46678	175.18270	224.68389	1.70161	0.2026563	0.28236327	2.3010740	20	—	—
223034 2002 TW_{19}	16.8	X	358.96625	35.99089	26.18789	7.54486	0.1547529	0.28450454	2.2895137	20	—	—
223035 2002 TL_{25}	16.5	X	98.21706	90.23975	204.25615	6.72356	0.1219543	0.28331681	2.2959080	20	12 28.3	19.9
223036 2002 TU_{31}	16.7	X	29.05874	156.34830	187.99802	5.80555	0.1509840	0.27912329	2.3188465	20	12 18.8	19.6
223037 2002 TU_{33}	16.7	X	296.74930	144.97817	15.55347	3.90330	0.0808376	0.29199408	2.2501943	20	—	—
223038 2002 TF_{35}	16.8	X	335.87997	11.51515	66.99771	5.57946	0.1811953	0.28183751	2.3039348	20	—	—
223039 2002 TG_{50}	16.5	X	347.12252	351.51483	24.15140	6.35622	0.1485683	0.27505067	2.3416801	20	11 24.4	18.8
223040 2002 TJ_{50}	16.7	X	314.48362	333.24761	98.52238	4.24299	0.2097963	0.27568625	2.3380797	20	12 19.7	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223041 2002 TR_{50}	16.4	X	340.54426	314.79279	120.53628	4.20934	0.2170160	0.28003862	2.3137908	20	—	—
223042 2002 TN_{56}	16.5	X	28.21624	186.80247	217.85694	8.21536	0.3022036	0.28578739	2.2826571	20	—	—
223043 2002 TM_{71}	16.3	X	90.10320	20.43084	274.46121	6.21052	0.1266443	0.28245375	2.3005825	20	12 21.2	19.6
223044 2002 TP_{71}	16.3	X	33.16637	12.45322	343.34773	7.45059	0.1314211	0.28178849	2.3042020	20	—	—
223045 2002 TV_{74}	17.1	X	49.52062	257.32629	88.98633	4.13204	0.2011098	0.28452433	2.2894075	20	—	—
223046 2002 TV_{76}	16.2	X	209.59214	195.90072	351.78092	7.03898	0.0529139	0.28181001	2.3040847	20	12 20.2	19.1
223047 2002 TQ_{80}	17.1	X	125.76266	89.79801	223.65957	3.93735	0.1382417	0.29112522	2.2546692	20	—	—
223048 2002 TX_{81}	17.0	X	25.61006	359.02438	43.43473	6.38275	0.1984807	0.28657163	2.2784907	20	—	—
223049 2002 TC_{85}	16.9	X	349.20067	325.11810	81.89220	6.60431	0.1852639	0.28015369	2.3131572	20	—	—
223050 2002 TS_{91}	17.1	X	54.86638	44.80779	304.12975	3.01581	0.2943945	0.28505936	2.2865420	20	—	—
223051 2002 TS_{95}	16.6	X	75.34805	23.62077	254.62303	7.28191	0.0922807	0.27784714	2.3259413	20	11 8.5	19.7
223052 2002 TR_{105}	15.4	X	289.41175	203.47273	276.74178	4.04993	0.1262681	0.17162918	3.2068253	20	12 3.2	19.5
223053 2002 TA_{132}	16.6	X	73.63073	321.66558	322.49183	5.91626	0.1071724	0.27867322	2.3213425	20	11 15.2	19.9
223054 2002 TR_{134}	14.8	X	170.53750	120.41556	317.70305	8.92265	0.0807828	0.14701975	3.5553765	20	5 30.1	20.4
223055 2002 TZ_{150}	16.9	X	101.26218	300.60192	337.08719	3.57951	0.1501796	0.28288982	2.2982177	20	12 11.5	20.4
223056 2002 TS_{182}	16.6	X	71.71268	27.14665	271.40793	4.86705	0.1724826	0.28198574	2.3031274	20	12 10.7	19.9
223057 2002 TD_{183}	16.4	X	305.37792	185.07208	317.10510	7.05239	0.0201285	0.29170014	2.2517057	20	—	—
223058 2002 TA_{190}	16.4	X	351.49081	59.65798	308.55833	6.02791	0.1242413	0.27717766	2.3296852	20	11 18.1	18.8
223059 2002 TR_{198}	16.5	X	47.14352	10.31142	306.23767	5.07170	0.1538854	0.27906141	2.3191893	20	12 4.1	19.6
223060 2002 TN_{200}	16.6	X	24.11217	21.75293	337.79730	5.36098	0.1851627	0.28215195	2.3022228	20	—	—
223061 2002 TX_{205}	16.8	X	52.35395	16.33589	314.23747	3.55964	0.1459511	0.28083635	2.3094071	20	12 28.4	19.8
223062 2002 TS_{207}	17.0	X	6.03262	36.18983	341.47991	2.58102	0.1850119	0.27905677	2.3192150	20	—	—
223063 2002 TX_{207}	16.7	X	353.08783	27.83079	348.36671	3.96861	0.1222965	0.27654939	2.3332122	20	12 3.2	19.1
223064 2002 TW_{224}	17.1	X	329.76414	329.90689	60.34597	4.35400	0.1906338	0.27494130	2.3423011	20	11 17.1	18.5
223065 2002 TY_{228}	16.6	X	345.87251	312.93089	90.28292	5.00410	0.2588735	0.27903742	2.3193222	20	—	—
223066 2002 TJ_{231}	16.1	X	333.49683	16.62576	19.20885	25.87918	0.2626380	0.27815775	2.3242095	20	12 7.8	18.5
223067 2002 TB_{239}	16.2	X	72.66237	84.91843	249.53441	5.41600	0.1655663	0.28454404	2.2893018	20	—	—
223068 2002 TO_{239}	16.9	X	117.17616	302.27635	6.00175	6.16529	0.1457741	0.28863627	2.2676122	20	—	—
223069 2002 TJ_{240}	17.2	X	28.96140	55.89695	284.49769	1.45640	0.1873089	0.27901096	2.3194688	20	12 18.7	19.9
223070 2002 TV_{243}	17.4	X	346.87787	258.69064	186.91838	7.56098	0.1544062	0.28641845	2.2793030	20	—	—
223071 2002 TX_{243}	17.3	X	333.39210	84.66729	329.22973	1.10660	0.2186122	0.27759825	2.3273314	20	—	—
223072 2002 TQ_{250}	16.7	X	2.60834	14.19824	30.06386	3.52592	0.1619944	0.28087840	2.3091766	20	—	—
223073 2002 TM_{255}	16.5	X	17.22957	138.93011	220.94706	5.48302	0.1598933	0.27896208	2.3197397	20	12 24.8	19.3
223074 2002 TB_{256}	17.7	X	41.89988	118.60618	224.59646	2.89285	0.3366218	0.28306936	2.2972458	20	—	—
223075 2002 TZ_{258}	16.9	X	2.82267	194.51206	191.63191	6.03911	0.1757868	0.27858171	2.3218508	20	—	—
223076 2002 TJ_{259}	16.3	X	63.46397	207.84631	128.79537	3.68769	0.2256475	0.28266194	2.2994528	20	—	—
223077 2002 TR_{260}	16.3	X	347.71264	9.87486	69.33622	8.13398	0.2151242	0.28101018	2.3084547	20	—	—
223078 2002 TK_{262}	16.8	X	133.19997	256.77216	46.04535	7.19470	0.1194995	0.28976069	2.2617421	20	—	—
223079 2002 TX_{269}	16.8	X	7.30033	89.46273	318.35677	4.28809	0.1210967	0.28439241	2.2901155	20	—	—
223080 2002 TT_{270}	16.9	X	32.85334	63.29875	343.52549	5.45111	0.1284717	0.28785831	2.2716959	20	—	—
223081 2002 TF_{278}	16.1	X	316.85251	104.19158	273.58665	6.90086	0.1452765	0.27186510	2.3599370	20	9 20.7	18.3
223082 2002 TK_{283}	16.7	X	5.89636	12.34821	4.53343	6.78809	0.1261101	0.27850576	2.3222730	20	12 26.9	19.5
223083 2002 TS_{284}	16.6	X	72.47633	73.60232	248.87318	4.62110	0.1875715	0.28249189	2.3003755	20	—	—
223084 2002 TX_{284}	16.8	X	353.56584	32.47231	356.17546	3.41988	0.1342785	0.27788462	2.3257322	20	12 25.1	19.3
223085 2002 TL_{285}	16.3	X	331.07418	125.23722	245.50410	7.10232	0.1780078	0.27225270	2.3576966	20	10 13.9	18.2
223086 2002 TY_{288}	16.6	X	37.43982	3.02073	21.84393	7.26418	0.1735232	0.28355246	2.2946358	20	—	—
223087 2002 TX_{289}	16.3	X	39.95285	10.85053	5.37759	7.05647	0.1194452	0.28191008	2.3035394	20	—	—
223088 2002 TX_{291}	16.3	X	30.42047	335.69920	20.26241	7.93171	0.2273190	0.27904848	2.3192609	20	—	—
223089 2002 TX_{360}	18.3	X	1.34206	338.97907	32.83345	4.58884	0.2466618	0.27952162	2.3166430	20	—	—
223090 2002 TX_{372}	16.5	X	73.14624	182.16624	131.60219	7.70181	0.1405341	0.28246509	2.3005209	20	12 28.8	19.8
223091 2002 TY_{381}	16.9	X	65.91159	259.31984	27.26704	6.69979	0.1890730	0.27758039	2.3274313	20	11 19.3	20.2
223092 2002 UY_{9}	17.1	X	45.74366	345.80503	313.93618	3.99349	0.2183061	0.27806803	2.3247094	20	11 18.2	20.2
223093 2002 UJ_{11}	17.1	X	337.40202	62.04523	11.58936	5.52926	0.1243040	0.28117857	2.3075329	20	—	—
223094 2002 UH_{17}	17.5	X	358.60115	321.27443	60.09210	4.68656	0.2306709	0.27822652	2.3238265	20	—	—
223095 2002 UG_{19}	16.7	X	8.08751	123.96805	218.15204	1.68715	0.2254924	0.27486528	2.3427330	20	11 26.6	19.1
223096 2002 UQ_{21}	16.1	X	165.54276	179.00080	55.80567	8.00247	0.0771249	0.28105380	2.3082158	20	12 24.4	19.3
223097 2002 UV_{31}	16.7	X	121.48692	23.15762	272.97041	5.96207	0.2419190	0.28833741	2.2691788	20	—	—
223098 2002 UF_{33}	16.9	X	299.12105	50.61234	11.54099	6.69306	0.0905171	0.27332337	2.3515355	20	10 31.5	19.3
223099 2002 UO_{35}	17.0	X	321.94778	43.37334	30.60145	3.53012	0.1268281	0.27837031	2.3230262	20	—	—
223100 2002 UU_{35}	16.9	X	7.63514	351.06723	77.55968	2.43551	0.1669997	0.28459680	2.2890189	20	—	—
223101 2002 UX_{40}	17.2	X	314.43048	208.31489	211.78564	5.00507	0.1994011	0.27481717	2.3430064	20	11 29.6	18.6
223102 2002 UP_{44}	17.2	X	308.87007	85.99766	8.86732	1.68435	0.1502767	0.27963267	2.3160296	20	—	—
223103 2002 UT_{51}	15.7	X	248.35774	241.35077	232.39220	11.41416	0.1229523	0.16983660	3.2293506	20	9 28.8	20.5
223104 2002 US_{66}	17.6	X	191.84261	23.60545	169.90030	5.88442	0.0404111	0.28079384	2.3096402	20	12 7.2	20.5
223105 2002 VC_{5}	16.7	X	52.36034	105.26949	234.88986	23.17456	0.2245907	0.28128977	2.3069247	20	—	—
223106 2002 VC_{7}	16.9	X	9.75217	36.66424	344.93514	2.07704	0.2155285	0.27912019	2.3188637	20	—	—
223107 2002 VA_{13}	16.7	X	51.28095	319.64027	12.19447	2.85851	0.2321394	0.28073285	2.3099747	20	—	—
223108 2002 VK_{13}	17.0	X	58.50948	284.21004	40.71538	2.83624	0.1812554	0.27959590	2.3162327	20	12 31.3	20.3
223109 2002 VW_{15}	16.9	X	9.10413	300.21008	80.68269	7.04637	0.2125109	0.27781827	2.3261025	20	—	—
223110 2002 VO_{16}	16.6	X	225.47418	92.98183	25.86477	7.46706	0.0711463	0.27048750	2.3679431	20	10 4.7	19.6
223111 2002 VX_{21}	17.1	X	356.33789	343.09110	339.82298	1.04502	0.1942174	0.27115513	2.3640546	20	9 28.0	18.7
223112 2002 VP_{22}	17.4	X	11.18481	186.40581	231.74198	3.04788	0.1366610	0.28429276	2.2906506	20	—	—
223113 2002 VL_{23}	16.6	X	318.67564	8.78632	41.25636	7.06826	0.1053834	0.27393815	2.3480159	20	11 18.8	18.7
223114 2002 VX_{29}	16.8	X	278.96426	223.08429	240.29646	2.88237	0.1676896	0.27363390	2.3497561	20	11 18.5	18.6
223115 2002 VE_{30}	17.1	X	45.67609	136.37530	210.12042	2.53081	0.2278638	0.28055341	2.3109596	20	—	—
223116 2002 VJ_{30}	17.2	X	34.47702	154.23580	234.56524	4.60942	0.1616949	0.28298888	2.2976813	20	—	—
223117 2002 VS_{30}	17.3	X	331.74854	5.79875	52.48084	1.47813	0.2128952	0.27653972	2.3332666	20	—	—
223118 2002 VU_{31}	16.7	X	295.63372	359.83210	68.63160	3.63029	0.1513785	0.27193904	2.3595092	20	10 31.9	18.6
223119 2002 VN_{32}	16.4	X	319.51095	340.03161	61.10254	13.33837	0.1858512	0.27255664	2.3559435	20	11 10.8	18.0
223120 2002 VZ_{32}	17.4	X	2.32194	121.06526	246.49292	0.98745	0.2201578	0.27569704	2.3380187	20	12 22.7	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223121 2002 VN_{33}	16.4	X	43.56577	134.48570	242.25917	6.09025	0.1148064	0.28170516	2.3046564	20	—	—
223122 2002 VP_{33}	16.7	X	15.86646	300.71237	65.36859	3.86382	0.2390353	0.27766133	2.3269789	20	—	—
223123 2002 VL_{39}	16.9	X	333.77042	281.93371	85.21497	7.82806	0.2122865	0.27244220	2.3566032	20	10 24.4	18.6
223124 2002 VX_{45}	17.4	X	338.98893	27.61593	73.90116	2.30813	0.1675917	0.28360568	2.2943487	20	—	—
223125 2002 VE_{49}	16.8	X	320.84274	194.09817	180.31853	4.62878	0.2546486	0.27083008	2.3659457	20	9 23.8	17.9
223126 2002 VJ_{57}	16.8	X	22.14338	274.51821	61.60458	6.36566	0.1165664	0.27587785	2.3369970	20	11 21.8	19.4
223127 2002 VT_{61}	17.0	X	341.61330	130.70032	257.05235	4.34670	0.1368178	0.27560072	2.3385634	20	12 2.2	19.1
223128 2002 VC_{63}	16.5	X	24.29206	53.64399	302.50571	4.67662	0.1903080	0.27856844	2.3219246	20	—	—
223129 2002 VD_{67}	16.8	X	6.04265	77.72904	265.98097	1.39628	0.1504892	0.27487018	2.3427051	20	11 12.3	19.1
223130 2002 VC_{73}	17.3	X	341.83721	282.86021	134.93455	2.51936	0.1182193	0.27889488	2.3201124	20	—	—
223131 2002 VE_{75}	16.3	X	253.05961	45.07869	69.94347	8.83498	0.0738190	0.27309514	2.3528455	20	11 7.8	19.0
223132 2002 VR_{76}	16.3	X	41.02595	233.99781	80.72435	10.01244	0.2171922	0.27584222	2.3371983	20	12 3.4	19.4
223133 2002 VB_{82}	16.5	X	265.78092	240.10327	222.64112	10.72030	0.1418447	0.27061726	2.3671860	20	10 27.3	19.2
223134 2002 VJ_{86}	17.2	X	327.89840	140.34814	289.82797	2.05332	0.1430523	0.27927790	2.3179906	20	—	—
223135 2002 VN_{87}	16.7	X	316.20212	0.85479	31.85877	7.84716	0.1125698	0.27139222	2.3626775	20	10 19.5	18.7
223136 2002 VM_{97}	17.1	X	359.61927	79.33060	273.80723	3.34318	0.2563639	0.27497619	2.3421030	20	12 3.2	19.2
223137 2002 VW_{102}	16.8	X	274.47285	105.09279	21.28945	6.43205	0.0742744	0.27828222	2.3235164	20	12 26.7	19.4
223138 2002 VP_{114}	17.3	X	278.27680	349.27564	77.61359	1.83390	0.1983007	0.26889984	2.3772545	20	9 17.4	19.8
223139 2002 VD_{120}	15.7	X	7.92473	97.89233	259.23427	18.30585	0.2687127	0.27561050	2.3385081	20	12 23.9	18.3
223140 2002 VF_{129}	16.7	X	92.21089	119.00956	229.43387	5.57672	0.1423198	0.28935423	2.2638596	20	—	—
223141 2002 VL_{131}	16.6	X	283.72354	277.13151	217.42956	3.84813	0.0810872	0.27981544	2.3150210	20	—	—
223142 2002 WZ_{1}	16.9	X	262.75174	28.99557	79.84583	5.88436	0.1125680	0.27242691	2.3566914	20	11 7.5	19.4
223143 2002 WK_{3}	17.3	X	345.80288	55.09104	320.41773	4.42213	0.1734259	0.27451557	2.3447222	20	11 25.1	19.5
223144 2002 WL_{8}	16.6	X	29.39585	116.77541	221.56114	2.34210	0.2477697	0.27681281	2.3317318	20	12 24.5	19.7
223145 2002 WX_{8}	15.8	X	22.85440	281.52549	87.61026	22.42118	0.3436579	0.28038448	2.3118877	20	—	—
223146 2002 WG_{10}	17.2	X	325.93882	251.78578	134.19463	3.70006	0.2259574	0.27222512	2.3578559	20	11 3.1	18.6
223147 2002 WU_{13}	16.8	X	280.30648	253.95333	201.51394	4.66159	0.1952713	0.27268091	2.3552276	20	11 5.4	18.9
223148 2002 WZ_{22}	17.2	X	48.00962	238.57982	75.62209	6.74605	0.1097487	0.27401168	2.3475958	20	11 25.9	20.3
223149 2002 WG_{26}	17.9	X	321.12385	260.52750	140.55752	2.75921	0.1997473	0.27321685	2.3521466	20	11 14.6	19.5
223150 2002 XA_{1}	17.2	X	294.34635	69.38672	329.89567	3.77534	0.1644833	0.27196501	2.3593590	20	9 9.5	19.2
223151 2002 XP_{8}	16.4	X	273.09311	140.43484	251.19818	6.76392	0.0758478	0.26330658	2.4108022	20	8 3.6	19.4
223152 2002 XE_{22}	17.1	X	230.92826	139.08338	8.82600	5.11384	0.2007736	0.27036049	2.3686846	20	10 29.5	20.1
223153 2002 XR_{27}	16.3	X	55.09294	56.95322	252.81531	6.08241	0.1340620	0.27392053	2.3481166	20	12 1.4	19.4
223154 2002 XS_{33}	16.4	X	307.92264	36.31665	358.33218	6.84329	0.1128841	0.27010537	2.3701759	20	10 4.4	18.7
223155 2002 XY_{34}	17.3	X	246.86052	116.99360	336.95974	1.91595	0.1692161	0.26680319	2.3896926	20	9 11.6	20.2
223156 2002 XP_{35}	16.7	X	264.98978	31.66345	80.26928	13.25217	0.1380576	0.27239289	2.3568876	20	11 13.6	19.3
223157 2002 XF_{42}	16.5	X	225.98586	118.56860	282.18451	4.66930	0.2044810	0.25679192	2.4514055	20	6 3.4	20.3
223158 2002 XU_{49}	16.9	X	294.83808	153.50107	263.35733	6.33340	0.0917851	0.26928941	2.3749613	20	10 13.7	19.5
223159 2002 XX_{49}	16.9	X	5.94697	51.14706	333.45093	4.82831	0.2230032	0.27795881	2.3253183	20	—	—
223160 2002 XK_{50}	17.1	X	308.03247	87.25131	44.71798	3.22806	0.1262825	0.28118710	2.3074862	20	—	—
223161 2002 XD_{71}	16.2	X	257.14304	171.46269	288.24191	4.75448	0.1089606	0.26769108	2.3844055	20	10 11.8	19.1
223162 2002 XV_{75}	17.5	X	251.33933	124.27135	332.43620	2.91280	0.2022281	0.26632292	2.3925647	20	9 15.7	20.6
223163 2002 XZ_{85}	16.7	X	292.83163	130.72926	310.61472	5.71537	0.2216490	0.27161583	2.3613806	20	11 2.8	18.6
223164 2002 XD_{86}	16.7	X	244.66869	127.44662	326.04033	4.30146	0.1500239	0.26504379	2.4002563	20	9 9.9	19.7
223165 2002 XB_{87}	16.4	X	180.66509	192.82732	307.86792	8.00274	0.1997434	0.25981104	2.4323775	20	8 28.4	20.5
223166 2002 XE_{101}	16.5	X	343.67804	298.68491	82.23194	10.73231	0.1048744	0.27251722	2.3561707	20	11 22.9	18.9
223167 2002 XT_{102}	17.3	X	326.70508	226.91288	197.38099	1.51482	0.1991833	0.27572075	2.3378847	20	—	—
223168 2002 XX_{112}	17.1	X	339.52128	86.08783	331.40224	2.11348	0.1180441	0.27638812	2.3341198	20	—	—
223169 2002 XQ_{115}	16.4	X	279.92481	353.87465	42.50877	6.13388	0.2125624	0.26187940	2.4195531	20	8 2.9	19.2
223170 2002 YP_{7}	17.0	X	289.11769	323.17207	109.22953	5.82155	0.2749518	0.26803985	2.3823367	20	10 6.6	18.9
223171 2002 YU_{10}	16.1	X	150.79621	246.64968	278.57896	7.53695	0.1448600	0.25758034	2.4464006	20	8 31.5	20.0
223172 2002 YN_{14}	17.0	X	245.64836	346.08266	102.60134	1.36960	0.1088960	0.26261304	2.4150448	20	9 12.4	19.9
223173 2002 YG_{21}	16.4	X	299.64550	125.69611	264.02666	5.54831	0.1163649	0.26602536	2.3943485	20	9 7.6	19.1
223174 2002 YF_{22}	16.9	X	197.35680	169.26985	348.48217	1.03965	0.2179737	0.26412699	2.4058074	20	10 5.3	20.7
223175 2002 YP_{25}	16.8	X	264.12463	0.94575	79.10586	2.52588	0.1612447	0.26564885	2.3966103	20	9 19.6	19.4
223176 2002 YC_{26}	16.7	X	181.09410	65.61241	123.41457	2.13790	0.1932083	0.26513439	2.3997095	20	11 1.6	20.4
223177 2002 YE_{27}	17.1	X	318.92233	167.22672	269.89309	1.32637	0.1876761	0.27378490	2.3488921	20	—	—
223178 2003 AA_{4}	15.7	X	274.65187	291.07477	204.37747	22.35889	0.3134619	0.27362491	2.3498076	20	12 5.4	17.9
223179 2003 AO_{5}	16.3	X	22.97230	42.50034	142.93893	5.48726	0.1703821	0.23811589	2.5779657	20	4 13.6	18.6
223180 2003 AQ_{15}	17.2	X	213.92703	120.17366	26.16448	2.53172	0.1321716	0.26625396	2.3929778	20	10 17.1	20.6
223181 2003 AO_{18}	16.5	X	274.50348	356.29740	82.02727	6.61901	0.0884543	0.26711669	2.3878225	20	10 17.6	19.3
223182 2003 AQ_{29}	16.5	X	253.09299	235.86530	254.91125	1.94234	0.1330965	0.26816793	2.3815781	20	11 17.2	18.9
223183 2003 AE_{40}	16.4	X	195.83416	259.72401	227.20895	3.63410	0.1512197	0.25842197	2.4410861	20	8 28.2	20.3
223184 2003 AR_{44}	17.2	X	287.57149	65.30514	32.39361	4.41071	0.1863303	0.27155374	2.3617406	20	11 23.8	19.1
223185 2003 AR_{49}	17.1	X	279.39507	57.63238	8.44451	2.42770	0.1693111	0.26575214	2.3959893	20	9 21.7	19.4
223186 2003 AZ_{49}	16.9	X	233.12443	151.80898	318.97256	4.13541	0.1050938	0.26364871	2.4087161	20	9 24.4	20.1
223187 2003 AK_{50}	16.5	X	243.70527	25.12716	85.45217	6.80177	0.1076180	0.26521216	2.3992404	20	10 13.9	19.5
223188 2003 AP_{51}	17.0	X	262.31227	68.88702	23.67732	2.87242	0.1216465	0.26563059	2.3967202	20	10 10.1	19.5
223189 2003 AF_{52}	16.6	X	197.11735	142.53800	353.12077	2.92671	0.1199746	0.26053678	2.4278584	20	9 14.5	20.1
223190 2003 AP_{53}	17.0	X	238.67816	61.46039	80.09942	5.44520	0.1272423	0.26767597	2.3844952	20	11 13.2	19.9
223191 2003 AV_{59}	16.5	X	216.26550	87.39926	13.10710	1.54904	0.1417227	0.25805971	2.4433700	20	8 18.1	20.1
223192 2003 AQ_{63}	16.8	X	55.85506	309.17895	96.77184	5.07967	0.1527292	0.28485155	2.2876539	20	—	—
223193 2003 AX_{71}	17.3	X	351.01819	168.05668	239.35815	1.58851	0.2040275	0.27548745	2.3392044	20	—	—
223194 2003 BP_{4}	16.7	X	248.21549	91.00732	178.27925	8.43405	0.2038590	0.22821452	2.6520022	20	1 14.5	21.2
223195 2003 BW_{8}	16.7	X	176.29999	332.67417	163.06509	6.99484	0.0808547	0.25630669	2.4544984	20	8 23.6	20.2
223196 2003 BX_{19}	16.6	X	240.84555	66.88513	24.33895	5.13175	0.1569197	0.26004685	2.4309068	20	9 3.4	19.8
223197 2003 BD_{20}	16.4	X	265.35503	346.43752	79.39056	7.25548	0.1181859	0.26027550	2.4294830	20	9 10.2	19.4
223198 2003 BP_{20}	16.3	X	204.15673	62.06045	56.16288	3.04042	0.1450752	0.25803382	2.4435335	20	8 29.2	19.8
223199 2003 BM_{29}	16.7	X	123.92428	331.61640	218.15136	2.43400	0.1289882	0.25589906	2.4571043	20	9 7.4	20.5
223200 2003 BF_{30}	17.1	X	193.31642	346.82477	129.19178	3.18274	0.1277233	0.25652100	2.4531311	20	8 14.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223201 2003 BL_{30}	16.5	X	269.16883	102.71392	333.01204	1.15964	0.1434364	0.26369777	2.4084173	20	9 22.1	19.1
223202 2003 BQ_{31}	16.6	X	114.39909	242.07066	311.23610	1.70657	0.1303427	0.25311767	2.4750714	20	9 2.4	20.2
223203 2003 BH_{35}	15.9	X	342.41299	204.97162	26.15313	12.81402	0.1188036	0.23757349	2.5818880	20	4 2.9	18.6
223204 2003 BX_{38}	16.8	X	179.77293	305.00347	223.92133	1.63327	0.1624156	0.26074856	2.4265436	20	10 6.2	20.6
223205 2003 BK_{39}	17.1	X	233.47901	297.82007	136.09004	3.02347	0.1691767	0.25768923	2.4457114	20	7 28.8	20.7
223206 2003 BS_{44}	16.6	X	202.84135	34.25748	90.66512	3.45799	0.1370800	0.25856532	2.4401837	20	9 6.6	20.2
223207 2003 BY_{47}	16.7	X	215.71627	116.04599	320.15865	8.78128	0.1814834	0.25405253	2.4689959	20	7 13.1	20.5
223208 2003 BQ_{48}	17.0	X	231.01019	285.91082	226.09259	1.43235	0.1416226	0.26541078	2.3980432	20	11 13.2	20.0
223209 2003 BL_{49}	17.0	X	224.47159	11.64462	102.18653	3.31161	0.1513065	0.26166354	2.4208836	20	9 14.7	20.4
223210 2003 BW_{51}	16.4	X	267.56495	89.61376	325.50967	6.56931	0.1885419	0.25949395	2.4343586	20	8 13.0	19.2
223211 2003 BE_{57}	14.9	X	58.27741	325.89328	162.68762	3.10324	0.1704008	0.12407366	3.9812212	20	4 7.9	20.1
223212 2003 BY_{58}	16.0	X	326.90450	324.74064	300.40721	7.95710	0.0751983	0.24251860	2.5466700	20	4 24.1	19.2
223213 2003 BT_{62}	16.4	X	166.69665	75.89925	74.50836	7.30600	0.0659557	0.25607547	2.4559757	20	9 6.3	20.0
223214 2003 BX_{65}	17.5	X	279.26435	308.57407	150.92826	2.00714	0.1467510	0.26772727	2.3841906	20	11 15.0	19.8
223215 2003 BR_{76}	16.7	X	324.35887	331.70905	88.13253	10.69660	0.2478999	0.27080904	2.3660683	20	12 26.7	18.2
223216 2003 BM_{81}	16.5	X	96.02030	211.47953	287.95206	4.18792	0.1455972	0.24292454	2.5438322	20	6 2.1	19.9
223217 2003 BO_{83}	17.2	X	279.79490	231.93069	222.64601	1.97229	0.1704268	0.26732250	2.3865967	20	11 4.4	19.5
223218 2003 CK_{7}	16.4	X	83.94234	62.86802	81.70507	3.19805	0.1400228	0.24175940	2.5519988	20	5 24.1	19.6
223219 2003 CH_{9}	17.1	X	268.74829	257.90270	200.81084	4.68105	0.2040367	0.26658518	2.3909952	20	10 15.6	19.6
223220 2003 CW_{18}	15.8	X	46.07462	181.35038	28.06459	8.08238	0.1557614	0.24240794	2.5474450	20	7 1.1	18.8
223221 2003 CF_{25}	17.1	X	260.80298	117.91290	325.43606	3.41383	0.2069717	0.26206593	2.4184049	20	9 8.7	19.8
223222 2003 DY	17.2	X	260.78354	251.68410	198.89509	1.94188	0.1678171	0.26345497	2.4098968	20	9 26.2	20.1
223223 2003 DY_{5}	16.7	X	213.24640	353.07014	87.56889	1.63220	0.1830767	0.25377923	2.4707682	20	7 15.2	20.5
223224 2003 DN_{7}	16.3	X	234.25899	323.91933	108.35762	3.31612	0.1548574	0.25538677	2.4603890	20	7 29.6	19.9
223225 2003 DW_{7}	16.8	X	335.20559	35.60445	185.35268	2.28207	0.1233330	0.23169996	2.6253392	20	3 4.9	19.7
223226 2003 DW_{13}	17.1	X	254.26600	310.68748	146.97983	3.46402	0.1956401	0.26286955	2.4134735	20	9 23.4	20.0
223227 2003 DP_{14}	16.5	X	205.32729	49.45123	97.89390	7.92463	0.1826225	0.25930982	2.4355109	20	10 6.8	20.3
223228 2003 DV_{16}	15.6	X	108.90450	20.53620	330.30921	13.68414	0.0356016	0.22079123	2.7111164	20	—	—
223229 2003 DE_{18}	16.5	X	272.61617	18.32791	47.78123	4.51972	0.1810091	0.26200476	2.4187812	20	9 9.8	19.1
223230 2003 DH_{21}	15.5	X	17.24082	333.81338	42.67242	8.81772	0.2812309	0.27197259	2.3593152	20	—	—
223231 2003 DT_{21}	17.3	X	87.48233	275.48085	9.36368	19.73108	0.0442199	0.37492804	1.9047476	20	12 21.4	19.9
223232 2003 DA_{24}	16.3	X	354.49283	64.09428	165.20494	4.89887	0.1049782	0.23789438	2.5795657	20	4 22.2	19.0
223233 2003 ET_{8}	16.2	X	73.56453	290.92498	242.55492	3.51087	0.0573253	0.24288321	2.5441208	20	6 5.3	19.4
223234 2003 EC_{9}	15.8	X	40.11106	253.88739	327.13731	10.96856	0.0823627	0.24336578	2.5407565	20	6 27.7	19.0
223235 2003 EY_{22}	16.3	X	52.25050	166.01497	1.49560	9.75985	0.1368379	0.23671033	2.5881607	20	5 3.6	19.3
223236 2003 EG_{32}	17.0	X	21.33558	342.32752	248.91485	0.50158	0.0840042	0.24163885	2.5528475	20	6 9.9	19.9
223237 2003 EJ_{34}	16.4	X	26.46466	319.29023	205.19858	7.07144	0.1501085	0.23328462	2.6134366	20	3 15.3	19.0
223238 2003 EY_{42}	13.3	X	235.12678	285.69843	184.02628	18.31964	0.0277913	0.08279817	5.2134140	20	9 12.1	20.3
223239 2003 EZ_{46}	15.7	X	9.67884	333.15457	219.30063	13.98192	0.0644656	0.23209844	2.6223334	20	3 23.1	19.0
223240 2003 EY_{52}	15.6	X	293.62067	215.05444	44.17235	13.47117	0.1197437	0.22994642	2.6386692	20	3 5.5	19.4
223241 2003 FE_{4}	16.1	X	104.57750	68.95326	15.76500	22.31626	0.0523353	0.23071207	2.6328281	20	3 23.8	19.6
223242 2003 FS_{14}	16.6	X	30.38674	329.38138	186.05165	10.38868	0.1084928	0.23123590	2.6288505	20	3 8.7	19.6
223243 2003 FN_{18}	17.3	X	190.99076	311.87333	145.36578	0.89250	0.0454249	0.24666783	2.5180308	20	7 21.4	20.6
223244 2003 FO_{28}	16.0	X	342.77519	357.78731	168.55198	15.26554	0.1172389	0.22296339	2.6934795	20	1 5.7	19.6
223245 2003 FR_{32}	16.1	X	344.42321	16.49511	177.77200	14.90493	0.0681497	0.22822517	2.6519196	20	2 17.5	19.6
223246 2003 FQ_{36}	16.4	X	257.44074	132.96329	199.04576	0.97968	0.1350123	0.23467964	2.6030696	20	4 15.4	20.1
223247 2003 FR_{51}	16.4	X	82.78871	353.24723	174.29508	7.45536	0.1566787	0.23992032	2.5650236	20	6 25.4	20.0
223248 2003 FB_{59}	16.3	X	69.21328	144.62757	27.27248	11.03878	0.1005547	0.23924803	2.5698265	20	6 1.3	19.6
223249 2003 FF_{59}	16.5	X	74.06068	143.44600	22.27062	9.31524	0.0985413	0.23903900	2.5713244	20	5 30.7	19.9
223250 2003 FJ_{67}	15.5	X	255.94642	244.52577	34.67619	12.77524	0.1560340	0.22434289	2.6824265	20	2 12.7	19.9
223251 2003 FB_{70}	12.6	X	332.62877	294.51792	91.90045	8.72946	0.0738029	0.08478750	5.1315452	20	10 3.9	19.1
223252 2003 FQ_{72}	15.8	X	326.62540	139.74197	123.38081	10.11163	0.0311845	0.23471827	2.6027839	20	5 4.8	19.3
223253 2003 FJ_{79}	15.7	X	330.20283	52.41419	203.89934	13.84645	0.0387577	0.23430334	2.6058559	20	4 26.2	18.9
223254 2003 FZ_{79}	16.0	X	230.03723	217.61551	73.97004	8.16663	0.2811502	0.21850183	2.7300210	20	1 27.1	21.0
223255 2003 FR_{81}	15.9	X	235.29749	353.53449	28.63946	14.65972	0.1667196	0.24113655	2.5563914	20	5 19.6	20.0
223256 2003 FL_{85}	16.2	X	317.47939	4.49689	214.79725	8.49185	0.0741589	0.22695790	2.6617822	20	2 10.6	19.9
223257 2003 FN_{85}	16.1	X	289.45359	259.51374	350.86030	10.47041	0.1569210	0.22551151	2.6731515	20	2 9.3	20.0
223258 2003 FO_{93}	15.9	X	32.61540	153.82029	45.65349	13.92026	0.0975490	0.23482164	2.6020200	20	5 13.9	18.7
223259 2003 FP_{95}	15.9	X	299.39801	42.11728	216.90062	8.48726	0.1022908	0.23000269	2.6382388	20	3 4.5	19.5
223260 2003 FW_{100}	16.4	X	216.35343	247.75612	24.47123	4.60350	0.1817358	0.21672346	2.7449352	20	—	—
223261 2003 FP_{104}	15.6	X	264.31170	218.56717	14.56078	12.96809	0.1894496	0.21795849	2.7345562	20	—	—
223262 2003 FK_{114}	15.5	X	245.51926	180.75482	180.01981	9.09061	0.1756490	0.23925247	2.5697947	20	5 7.0	19.5
223263 2003 FR_{124}	15.6	X	245.62121	346.52650	227.76569	8.21691	0.2093229	0.21222027	2.7836298	20	—	—
223264 2003 FG_{131}	16.3	X	62.55842	133.66677	10.35049	12.65172	0.0897099	0.23415257	2.6069744	20	4 11.9	19.4
223265 2003 GX_{1}	14.6	X	337.15934	237.89482	54.22555	22.28486	0.3132748	0.17638576	3.1489109	20	5 25.9	17.5
223266 2003 GO_{10}	15.9	X	275.84371	72.92952	169.17019	8.80150	0.1334883	0.21994113	2.7180978	20	1 14.9	20.0
223267 2003 GH_{13}	16.6	X	314.67423	121.27998	109.73443	1.25255	0.2142545	0.22750257	2.6575320	20	2 4.3	19.9
223268 2003 GZ_{21}	12.6	X	37.21718	299.13145	24.27413	26.10849	0.0650114	0.08380542	5.1715568	20	10 12.8	19.2
223269 2003 GB_{22}	16.7	X	197.94449	279.03979	216.61902	1.85840	0.1395866	0.25385005	2.4703087	20	9 12.2	20.4
223270 2003 GL_{27}	16.5	X	183.47036	352.04418	338.74661	1.56675	0.0310113	0.22354417	2.6888123	20	1 29.2	20.3
223271 2003 GY_{32}	16.8	X	55.91233	346.18953	176.39043	1.65426	0.1312973	0.23367425	2.6105308	20	5 6.2	19.7
223272 2003 GC_{33}	13.1	X	283.16937	226.42449	200.61392	6.91850	0.0723738	0.08061065	5.3073095	20	9 11.9	20.0
223273 2003 GJ_{35}	16.6	X	71.85657	358.42253	170.23481	10.10345	0.1581150	0.23846441	2.5754532	20	6 13.3	20.1
223274 2003 GP_{35}	17.2	X	279.60266	97.73053	50.30221	22.20623	0.0636391	0.38166559	1.8822648	20	—	—
223275 2003 GH_{41}	16.2	X	46.43876	133.45434	36.49358	13.52286	0.1076748	0.23325281	2.6136742	20	4 27.0	19.1
223276 2003 GG_{46}	16.7	X	0.24551	69.79485	134.69748	3.44741	0.0269029	0.23128916	2.6284468	20	3 31.7	20.1
223277 2003 GJ_{50}	16.3	X	359.69452	161.48964	69.86121	4.20644	0.0921617	0.23337878	2.6127336	20	5 4.4	19.1
223278 2003 GR_{53}	16.1	X	155.90202	208.55192	186.56286	10.63668	0.0549818	0.22829229	2.6513998	20	3 17.9	19.9
223279 2003 HS_{3}	16.1	X	220.32208	201.70529	49.69247	6.09576	0.0981454	0.21324981	2.7746632	20	—	—
223280 2003 HH_{9}	15.7	X	315.69965	215.52241	30.70514	14.54803	0.0270412	0.22869389	2.6482948	20	3 28.7	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223281 2003 HM_{10}	15.6	X	175.39314	178.18729	120.53466	9.95622	0.1467254	0.20994337	2.8037198	20	—	—
223282 2003 HL_{17}	16.0	X	11.67845	339.15668	191.42773	14.10846	0.1325934	0.22802328	2.6534847	20	2 23.9	19.0
223283 2003 HG_{19}	16.3	X	163.20154	313.62688	70.47981	3.95014	0.1596180	0.22553925	2.6729323	20	3 22.0	20.5
223284 2003 HF_{20}	15.2	X	232.62068	193.56146	209.17479	9.82488	0.1992973	0.24144349	2.5542244	20	6 13.1	19.3
223285 2003 HF_{32}	16.0	X	202.59257	35.01628	220.39474	8.53369	0.1163538	0.20966132	2.8062337	20	—	—
223286 2003 HW_{32}	17.2	X	255.31865	296.08786	221.02008	20.29488	0.0748119	0.37786964	1.8948495	20	—	—
223287 2003 HW_{35}	15.6	X	254.16433	62.74001	185.85324	12.22630	0.1116921	0.21730975	2.7399959	20	1 2.9	20.0
223288 2003 HY_{45}	16.2	X	339.16477	180.78111	76.97122	5.33197	0.0910510	0.23259689	2.6185856	20	5 7.7	19.2
223289 2003 HH_{46}	16.0	X	315.78905	186.17254	16.56902	13.19936	0.2203901	0.22286647	2.6942603	20	1 1.8	20.0
223290 2003 HR_{47}	15.8	X	222.76009	263.43347	56.57584	14.84206	0.1398525	0.22223192	2.6993866	20	3 4.9	20.4
223291 2003 HN_{49}	16.9	X	331.64624	32.60557	52.70455	22.95397	0.0631018	0.37851839	1.8926838	20	—	—
223292 2003 HM_{52}	15.0	X	163.00481	196.10730	222.27654	32.28930	0.1729160	0.23250830	2.6192507	20	5 1.3	19.0
223293 2003 HM_{54}	16.4	X	349.09182	177.08165	21.00602	14.10584	0.0762790	0.22755472	2.6571260	20	3 8.3	19.7
223294 2003 HO_{55}	16.3	X	336.70759	125.72163	77.73258	3.80539	0.0514030	0.22535415	2.6743958	20	2 25.1	19.7
223295 2003 JS_{3}	16.6	X	286.42147	231.96591	49.50421	3.15654	0.0228338	0.22859205	2.6490814	20	4 2.3	20.0
223296 2003 JD_{6}	16.2	X	352.40488	96.60864	56.04970	5.70983	0.0518889	0.21921179	2.7241234	20	1 12.2	19.7
223297 2003 JP_{13}	16.2	X	220.86745	80.07901	174.67092	7.86923	0.1849159	0.21161792	2.7889095	20	—	—
223298 2003 JE_{18}	15.5	X	130.84882	59.13439	220.06206	19.93492	0.1725745	0.19976828	2.8981333	20	12 23.3	20.6
223299 2003 KL_{13}	16.2	X	325.03670	53.19425	171.33886	3.43502	0.0398327	0.22474385	2.6792352	20	3 6.9	19.6
223300 2003 KJ_{14}	16.3	X	72.53126	73.23747	31.11089	2.81284	0.0480927	0.22578414	2.6709992	20	3 2.5	19.6
223301 2003 NA_{3}	14.9	X	61.16746	201.41937	130.75372	11.84044	0.1428848	0.18766820	3.0214049	20	12 19.3	19.4
223302 2003 NH_{3}	13.8	X	6.52737	67.88463	261.37411	24.63999	0.2779339	0.17449405	3.1716284	20	10 4.9	17.7
223303 2003 NP_{3}	15.2	X	6.51093	58.19921	303.65986	15.32072	0.1282498	0.18233293	3.0800609	20	11 4.7	19.4
223304 2003 NF_{4}	15.3	X	55.37153	259.70095	135.69978	11.30956	0.1495345	0.19504076	2.9447773	20	—	—
223305 2003 NL_{6}	15.8	X	30.86989	194.04920	193.95937	12.83319	0.0294418	0.19325582	2.9628818	20	—	—
223306 2003 OV_{6}	15.1	X	47.84255	58.41240	277.06276	8.47492	0.0548834	0.18646487	3.0343898	20	11 24.0	19.4
223307 2003 OH_{12}	14.4	X	334.47813	131.88039	258.30027	15.52927	0.1986759	0.17737440	3.1371991	20	10 19.1	17.9
223308 2003 OK_{14}	15.3	X	36.05729	68.70558	218.53058	15.60756	0.2181167	0.17795802	3.1303364	20	9 29.4	19.4
223309 2003 OP_{15}	15.6	X	63.76148	113.68945	230.32025	9.17588	0.1344743	0.18835882	3.0140150	20	—	—
223310 2003 OK_{17}	14.9	X	342.44380	31.96120	319.76626	8.55399	0.0907711	0.17678086	3.1442173	20	9 13.3	18.9
223311 2003 OU_{27}	15.6	X	76.07313	172.22830	129.09717	3.00171	0.1558349	0.18555763	3.0442723	20	11 29.3	20.1
223312 2003 PM_{2}	15.4	X	103.20224	332.82007	314.13331	9.75630	0.0751621	0.18959463	3.0009035	20	12 1.5	20.0
223313 2003 PS_{5}	14.9	X	355.65894	91.67953	246.26432	5.11877	0.1436727	0.17618134	3.1513461	20	9 19.2	18.6
223314 2003 PX_{7}	15.1	X	66.43611	82.71000	269.06758	8.37084	0.0993598	0.19221258	2.9735929	20	—	—
223315 2003 QX_{4}	16.1	X	358.67901	140.05235	174.90495	8.47844	0.2300242	0.17444539	3.1722182	20	8 31.5	19.2
223316 2003 QF_{5}	14.8	X	282.96490	177.47493	270.90933	9.48702	0.1948922	0.17622714	3.1508002	20	10 1.4	19.0
223317 2003 QM_{10}	14.9	X	345.11909	104.94870	238.29583	24.63766	0.2125458	0.17269133	3.1936625	20	8 28.9	18.9
223318 2003 QT_{12}	15.3	X	355.86629	220.58178	123.16993	11.44111	0.2256507	0.17639748	3.1487715	20	10 12.3	18.7
223319 2003 QN_{18}	15.5	X	343.30155	236.95535	117.19837	3.75587	0.1919636	0.17464630	3.1697849	20	9 23.7	18.8
223320 2003 QR_{25}	15.5	X	359.31699	141.91049	180.56867	9.63966	0.0883958	0.17400371	3.1775840	20	9 2.6	19.5
223321 2003 QB_{28}	14.9	X	332.94681	93.59923	271.09112	9.65030	0.1745706	0.17405270	3.1769877	20	9 9.5	18.6
223322 2003 QJ_{34}	15.0	X	142.74969	271.64890	333.56659	12.07211	0.0628143	0.18749015	3.0233174	20	11 20.3	19.8
223323 2003 QG_{44}	15.4	X	252.58008	299.57274	170.66575	12.25322	0.0789276	0.18118531	3.0930532	20	10 13.2	19.7
223324 2003 QG_{46}	15.5	X	356.35533	231.67294	145.40617	2.56034	0.1669281	0.18012853	3.1051390	20	11 17.6	19.0
223325 2003 QZ_{47}	15.2	X	347.22225	145.76639	264.57026	8.91914	0.1513939	0.18402073	3.0611989	20	12 13.9	18.7
223326 2003 QV_{49}	15.2	X	4.51896	297.54203	24.36164	5.31205	0.1377944	0.17438849	3.1729082	20	9 16.9	19.0
223327 2003 QN_{53}	15.4	X	46.42392	215.01621	111.51624	3.08624	0.2586578	0.18245901	3.0786419	20	12 9.6	19.8
223328 2003 QX_{55}	14.9	X	335.49651	20.91807	11.15614	11.30029	0.1649818	0.17843164	3.1247945	20	10 25.9	18.5
223329 2003 QP_{59}	15.0	X	49.35272	298.96635	359.08075	16.01934	0.2182870	0.17857484	3.1231239	20	10 27.7	19.6
223330 2003 QL_{60}	14.8	X	342.37553	29.21536	2.10569	24.21485	0.1256058	0.17844846	3.1245982	20	10 28.1	18.9
223331 2003 QV_{65}	14.8	X	356.05304	14.77693	6.14305	11.00087	0.1084208	0.18089455	3.0963668	20	11 12.6	18.8
223332 2003 QO_{68}	15.3	X	66.41278	168.00577	157.40128	16.88626	0.0505666	0.18596702	3.0398030	20	12 6.9	20.0
223333 2003 QY_{70}	15.8	X	356.63560	329.67951	59.73429	5.46151	0.1671166	0.18159886	3.0883556	20	12 3.4	19.4
223334 2003 QU_{73}	15.8	X	324.95423	219.61330	167.70507	10.17575	0.0944949	0.17841689	3.1249668	20	10 7.4	19.7
223335 2003 QN_{74}	15.3	X	337.67854	131.64138	211.25358	4.92351	0.1850851	0.17326413	3.1866200	20	8 22.8	18.8
223336 2003 QP_{74}	16.1	X	96.82562	64.05963	246.74506	3.82751	0.2289922	0.18957002	3.0011632	20	—	—
223337 2003 QS_{74}	15.0	X	333.54907	38.93842	309.42055	11.94279	0.0742320	0.17383072	3.1796918	20	8 25.7	19.2
223338 2003 QK_{76}	15.2	X	3.46116	221.07619	209.34244	5.02077	0.1636510	0.18898884	3.0073128	20	—	—
223339 2003 QC_{89}	15.6	X	304.22360	77.29550	329.58687	9.44210	0.1466816	0.17620095	3.1511124	20	9 19.7	19.4
223340 2003 QT_{93}	15.3	X	346.44724	226.79521	110.59565	6.24924	0.1696147	0.17494349	3.1661940	20	9 7.2	18.8
223341 2003 QZ_{93}	15.3	X	335.40619	43.68439	347.19113	4.38082	0.1490764	0.18015028	3.1048891	20	10 25.6	18.9
223342 2003 QS_{96}	15.9	X	68.21664	81.52008	166.48101	1.31232	0.1324536	0.17574986	3.1565019	20	9 12.3	20.3
223343 2003 QH_{100}	15.6	X	0.56752	173.29267	242.59191	1.45782	0.1412040	0.18708295	3.0277028	20	—	—
223344 2003 QJ_{106}	15.0	X	312.44140	193.42030	193.32080	17.34153	0.2030368	0.17358108	3.1827398	20	8 30.2	18.8
223345 2003 QP_{107}	15.1	X	77.31717	241.09327	71.26292	10.77985	0.0735150	0.18477837	3.0528253	20	12 3.7	19.5
223346 2003 QX_{112}	15.2	X	262.46133	169.25142	269.31843	18.27813	0.1997841	0.17346006	3.1842199	20	8 17.5	20.2
223347 2003 QC_{113}	14.8	X	0.03195	256.20911	70.81541	18.95267	0.1660653	0.17232135	3.1982321	20	9 28.0	18.9
223348 2003 RH_{9}	14.9	X	100.92321	323.04792	275.31021	20.26092	0.1144721	0.17784147	3.1317039	20	9 24.4	20.1
223349 2003 RP_{11}	15.8	X	37.43189	213.40527	156.16154	1.12451	0.0488865	0.18584024	3.0411853	20	12 22.3	20.0
223350 2003 RN_{15}	15.0	X	341.21348	98.79888	271.90137	9.60999	0.0972065	0.17676138	3.1444483	20	10 4.2	19.1
223351 2003 RQ_{17}	15.1	X	315.39971	202.88296	219.77316	9.99338	0.0560396	0.18120372	3.0928437	20	11 7.8	19.0
223352 2003 RS_{17}	15.3	X	305.61201	221.66844	210.20169	10.19651	0.0960323	0.18031240	3.1030277	20	11 2.8	19.2
223353 2003 RT_{19}	15.3	X	331.37894	55.46767	337.50188	3.06728	0.0652374	0.17863762	3.1223921	20	10 21.9	19.3
223354 2003 RO_{21}	15.1	X	332.19008	91.08946	309.33373	6.74224	0.2001924	0.17887465	3.1196331	20	10 30.5	18.4
223355 2003 RV_{21}	15.1	X	67.79892	34.35353	301.88532	8.92566	0.0845770	0.18630591	3.0361156	20	12 23.6	19.6
223356 2003 RP_{23}	15.7	X	340.93463	252.44082	122.55655	1.74813	0.1702481	0.17702477	3.1413285	20	10 16.7	19.2
223357 2003 RW_{25}	14.8	X	281.07350	94.87800	329.26390	24.76541	0.2555358	0.17057280	3.2200518	20	8 22.9	19.0
223358 2003 SJ	15.0	X	325.74843	227.52834	209.73827	10.57376	0.0953148	0.18379123	3.0637467	20	12 11.0	18.9
223359 2003 SE_{3}	14.9	X	330.23322	351.76158	356.64013	11.95597	0.0781287	0.16947269	3.2339718	20	8 26.5	19.1
223360 Švankmajer	15.1	X	14.01762	163.16839	208.69449	8.72817	0.0979060	0.18272161	3.0756916	20	12 1.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223361 2003 SX_{6}	15.1	X	318.25449	197.37423	184.64549	20.76434	0.1194944	0.17182551	3.2043820	20	9 13.6	19.1
223362 2003 SJ_{7}	15.6	X	66.94157	82.45754	178.03395	12.34551	0.0894206	0.17605047	3.1529077	20	9 20.2	19.9
223363 2003 SL_{8}	16.0	X	225.57270	259.58700	186.68867	10.63641	0.0502583	0.16743615	3.2601424	20	8 9.4	20.8
223364 2003 SG_{17}	15.4	X	313.79816	68.42035	12.83555	15.20977	0.2681120	0.17829317	3.1264122	20	11 9.3	18.5
223365 2003 SC_{20}	15.2	X	168.27113	188.11758	348.17705	3.07140	0.0771767	0.17638180	3.1489580	20	9 26.8	20.1
223366 2003 SF_{22}	14.9	X	79.19523	3.84251	300.15411	7.85064	0.1078845	0.18170739	3.0871257	20	11 28.2	19.5
223367 2003 SK_{27}	15.1	X	311.20657	254.76231	171.58984	16.03747	0.0832445	0.18052972	3.1005369	20	11 8.0	19.3
223368 2003 SP_{32}	15.0	X	3.86286	3.88959	336.77864	4.14523	0.1774060	0.17435917	3.1732639	20	10 11.1	18.6
223369 2003 SO_{39}	15.0	X	282.31430	207.12820	222.56945	8.40583	0.0640189	0.17390196	3.1788234	20	9 27.5	19.5
223370 2003 SJ_{43}	15.3	X	334.60056	229.08911	176.20203	16.50000	0.1089756	0.18147433	3.0897683	20	11 16.6	19.3
223371 2003 SN_{45}	14.8	X	317.32020	196.80137	168.81424	17.24727	0.1116229	0.17015027	3.2253805	20	8 21.7	18.9
223372 2003 SS_{52}	14.9	X	297.64422	86.31009	330.80516	5.29994	0.1368252	0.17339700	3.1849919	20	9 24.6	19.0
223373 2003 SD_{54}	15.1	X	194.93888	138.66317	4.99325	9.13744	0.0404322	0.17503918	3.1650400	20	9 19.1	19.6
223374 2003 SK_{54}	14.8	X	358.05367	119.09552	223.33744	10.48490	0.0717974	0.17479974	3.1679297	20	9 24.0	19.1
223375 2003 SA_{55}	15.2	X	358.69651	141.42093	209.71540	9.78715	0.2280776	0.17556610	3.1587041	20	10 22.7	18.4
223376 2003 SL_{55}	14.6	X	8.93639	328.24035	343.94608	15.82206	0.1556753	0.17263096	3.1944071	20	9 10.2	18.2
223377 2003 SB_{57}	14.9	X	357.68979	355.45205	344.03080	8.77703	0.0773002	0.17430309	3.1739445	20	9 21.5	18.9
223378 2003 SR_{58}	14.8	X	0.15800	28.64578	296.09691	11.44351	0.0841242	0.17331992	3.1859361	20	9 2.6	19.0
223379 2003 SV_{58}	15.0	X	2.23897	80.27475	251.66173	7.68193	0.0860925	0.17508037	3.1645435	20	9 16.8	19.3
223380 2003 SL_{60}	15.5	X	322.67712	49.04399	314.83370	3.34757	0.1539775	0.17119236	3.2122781	20	8 25.9	19.3
223381 2003 SO_{62}	15.0	X	26.48964	35.58716	242.96402	7.58945	0.0474302	0.16952055	3.2333631	20	8 10.7	19.5
223382 2003 SE_{65}	14.8	X	11.67833	57.79874	270.87035	13.55342	0.1012201	0.17687574	3.1430928	20	9 25.2	19.1
223383 2003 SP_{70}	14.7	X	354.78357	3.65394	342.33895	13.92905	0.0457676	0.17389788	3.1788730	20	9 22.3	19.0
223384 2003 SJ_{72}	15.3	X	8.03432	105.72159	270.62975	3.59691	0.1517118	0.18096546	3.0955578	20	12 3.3	19.1
223385 2003 SV_{73}	15.9	X	275.37681	73.80121	351.65141	6.89202	0.0749053	0.17228592	3.1986706	20	9 13.5	20.2
223386 2003 SP_{77}	14.8	X	326.59777	37.30364	318.81346	10.58049	0.1158091	0.17082961	3.2168239	20	8 24.1	18.7
223387 2003 SG_{85}	17.1	X	243.33991	227.45931	220.78361	20.07648	0.0903070	0.34966407	1.9954248	20	9 18.9	19.4
223388 2003 SV_{85}	15.5	X	312.55733	111.85453	271.11219	2.86217	0.1508588	0.16988786	3.2287009	20	9 1.9	19.4
223389 2003 SG_{88}	16.2	X	8.19307	291.10653	45.45894	1.80385	0.2139012	0.17489384	3.1667932	20	10 19.9	19.6
223390 2003 SA_{91}	15.4	X	305.47671	268.17688	198.58144	10.27526	0.1238217	0.18377082	3.0639736	20	12 15.5	19.3
223391 2003 SB_{92}	15.8	X	65.18784	106.52018	192.78608	4.75954	0.1403406	0.18145298	3.0900106	20	11 13.1	20.3
223392 2003 SU_{94}	15.2	X	96.77883	18.39889	268.43443	7.90759	0.0780914	0.18230791	3.0803427	20	11 24.1	19.8
223393 2003 SD_{106}	14.9	X	248.75247	264.71801	266.24390	8.99289	0.0788789	0.18604171	3.0389892	20	12 20.4	19.0
223394 2003 SM_{106}	14.8	X	34.19368	332.16739	332.84756	15.30230	0.1773560	0.17562480	3.1580002	20	10 8.4	19.1
223395 2003 SW_{115}	15.1	X	292.61519	153.79052	220.37952	11.91618	0.0799655	0.16846247	3.2468877	20	7 28.3	19.8
223396 2003 SB_{117}	14.9	X	5.94501	140.02307	257.73189	9.31965	0.1143098	0.18268978	3.0760487	20	12 22.8	18.8
223397 2003 SE_{118}	14.7	X	230.77965	291.68710	197.22752	13.00683	0.1232620	0.17240573	3.1971886	20	9 30.4	19.4
223398 2003 SO_{121}	15.7	X	81.73581	62.03242	195.09306	8.97005	0.0519513	0.17578032	3.1561373	20	9 28.1	20.1
223399 2003 SQ_{121}	15.2	X	269.72910	156.44063	279.28502	3.46485	0.1892555	0.17328610	3.1863507	20	8 31.8	19.6
223400 2003 SS_{123}	15.1	X	62.26778	252.46312	1.63053	15.57570	0.2309144	0.17447494	3.1718600	20	9 25.9	19.7
223401 2003 SF_{125}	14.5	X	262.98137	179.50290	245.94059	20.51336	0.0827725	0.16952731	3.2332772	20	8 17.1	19.6
223402 2003 SN_{130}	15.0	X	30.90876	346.75399	311.84221	25.88601	0.0902365	0.17546987	3.1598588	20	9 7.1	19.6
223403 2003 SU_{143}	14.7	X	8.71032	103.53316	223.38873	9.80639	0.0880952	0.17179020	3.2048211	20	9 20.5	18.9
223404 2003 SU_{148}	15.2	X	310.76581	27.87653	359.93042	6.53404	0.1491476	0.17038283	3.2224449	20	9 8.2	18.9
223405 2003 SK_{155}	14.8	X	286.41625	275.04521	196.20564	22.12358	0.1300531	0.17918591	3.1160194	20	11 20.8	19.0
223406 2003 SY_{157}	15.5	X	306.85854	153.38605	227.50764	4.06625	0.1254794	0.16947735	3.2339125	20	8 23.3	19.6
223407 2003 SF_{160}	15.7	X	118.67631	121.08201	270.23793	1.00944	0.0780348	0.20291650	2.8680792	20	2 4.6	19.6
223408 2003 SS_{160}	15.5	X	66.22051	269.24001	69.19154	4.44780	0.1385910	0.18521456	3.0480304	20	12 30.2	20.0
223409 2003 SV_{169}	15.5	X	317.38527	22.01805	4.66648	4.46048	0.1281317	0.17280323	3.1922836	20	9 19.6	19.2
223410 2003 SK_{177}	16.2	X	53.05139	261.58928	57.36763	2.51175	0.1731838	0.17996526	3.1070168	20	11 26.0	20.7
223411 2003 SL_{182}	15.1	X	220.22801	315.54661	220.66482	9.28187	0.0235415	0.18268082	3.0761493	20	11 29.7	19.4
223412 2003 SK_{183}	15.0	X	132.36661	227.15049	19.14231	10.11820	0.0552625	0.18185872	3.0854129	20	11 10.6	19.6
223413 2003 SP_{184}	15.1	X	256.06141	103.72250	15.27645	15.99502	0.0740932	0.17732297	3.1378057	20	10 23.2	19.5
223414 2003 SV_{184}	16.2	X	33.75738	267.26251	70.07334	2.89654	0.1399559	0.17887729	3.1196024	20	11 19.8	20.2
223415 2003 SF_{197}	14.8	X	231.35155	290.71186	207.80204	10.39720	0.1014283	0.17658494	3.1465426	20	10 16.4	19.5
223416 2003 SL_{203}	15.7	X	20.10756	260.03441	51.66355	1.82731	0.1642718	0.17476527	3.1683462	20	10 1.6	19.4
223417 2003 SB_{206}	15.3	X	26.94744	126.88314	193.75033	10.25639	0.1250169	0.17846745	3.1243766	20	10 18.9	19.2
223418 2003 SW_{210}	14.8	X	255.09876	166.09317	249.67273	6.59408	0.0338600	0.17125209	3.2115311	20	8 9.4	19.4
223419 2003 SE_{212}	15.1	X	348.75909	248.79380	128.53824	16.59291	0.0691591	0.17863809	3.1223866	20	11 4.4	19.5
223420 2003 SH_{213}	14.8	X	332.36083	340.22284	53.92291	16.98415	0.0604346	0.17923839	3.1154111	20	10 29.8	18.9
223421 2003 SJ_{218}	15.5	X	277.07336	88.88445	337.07107	3.40926	0.1143904	0.17277191	3.1926695	20	9 10.4	19.7
223422 2003 SZ_{231}	15.4	X	347.59998	345.53143	73.33781	5.39668	0.1317497	0.18276536	3.0752007	20	12 23.4	19.1
223423 2003 SD_{246}	16.0	X	26.13162	296.44431	64.79858	1.90763	0.1686533	0.18115946	3.0933475	20	12 13.3	20.0
223424 2003 SY_{250}	14.5	X	298.34751	278.87019	18.77796	21.19318	0.1641116	0.15706169	3.4021689	20	4 18.1	19.2
223425 2003 SJ_{253}	16.0	X	8.40204	241.16756	162.13953	1.55513	0.0969882	0.18529512	3.0471469	20	12 31.9	19.9
223426 2003 SJ_{257}	15.3	X	359.56603	319.05646	18.79620	11.84307	0.1343115	0.17382200	3.1797981	20	9 29.4	19.0
223427 2003 SK_{257}	16.1	X	107.52873	303.03276	95.23392	3.31485	0.0810162	0.20008569	2.8950675	20	2 1.4	20.0
223428 2003 SC_{260}	15.1	X	300.78664	20.87989	21.39085	5.23334	0.1466960	0.17150142	3.2084177	20	9 12.1	19.0
223429 2003 SO_{260}	15.9	X	19.13327	128.26335	221.97320	3.93170	0.1334450	0.17944270	3.1130458	20	11 14.7	19.9
223430 2003 SV_{265}	15.8	X	263.95374	226.73072	218.20253	4.31735	0.0846827	0.17425391	3.1745417	20	9 20.6	20.2
223431 2003 SB_{274}	15.0	X	298.53352	99.19001	24.13098	24.28342	0.3847727	0.17776953	3.1325487	20	11 11.2	18.2
223432 2003 SA_{277}	15.4	X	307.17518	126.37823	303.35525	8.96053	0.2111363	0.17628577	3.1501015	20	10 15.9	19.1
223433 2003 SN_{277}	15.1	X	11.13564	359.81310	312.93750	9.54311	0.0702133	0.17037545	3.2225380	20	9 4.3	19.4
223434 2003 SQ_{279}	15.2	X	25.48974	65.78346	235.40498	5.78900	0.0336819	0.17300949	3.1897460	20	9 6.7	19.7
223435 2003 SO_{281}	15.4	X	30.50089	133.11917	220.49998	8.68492	0.1006592	0.18136870	3.0909679	20	11 30.7	19.5
223436 2003 SD_{283}	14.8	X	340.30330	80.70288	266.63397	15.05680	0.1220417	0.17386760	3.1792422	20	8 28.9	19.1
223437 2003 SX_{283}	15.1	X	263.17983	200.56142	230.30118	12.48436	0.1483239	0.17186527	3.2038878	20	8 19.4	19.9
223438 2003 SD_{285}	15.1	X	130.36715	13.81599	210.22463	15.90726	0.0612716	0.17833110	3.1259690	20	10 14.0	19.8
223439 2003 SU_{285}	15.3	X	312.19563	260.20055	211.42562	10.14576	0.1597800	0.18475140	3.0531225	20	12 30.5	18.9
223440 2003 SF_{293}	15.4	X	279.75891	127.48280	289.78554	5.12620	0.1952908	0.17038884	3.2223691	20	8 20.3	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223441 2003 SP_{295}	15.0	X	279.47885	221.59836	222.50485	9.50189	0.2012736	0.17520030	3.1630993	20	9 21.7	19.2
223442 2003 SH_{297}	15.4	X	3.92119	217.81418	185.77895	5.47568	0.0276066	0.18645792	3.0344652	20	12 19.2	19.6
223443 2003 ST_{299}	15.5	X	343.26024	232.68971	133.92732	5.93591	0.1134598	0.17518024	3.1633407	20	10 9.8	19.3
223444 2003 SH_{308}	14.4	X	359.12819	58.46556	267.80238	19.70983	0.1171286	0.16978597	3.2299926	20	8 29.0	18.8
223445 2003 SF_{309}	15.5	X	19.98509	115.74702	225.05498	4.23166	0.1537073	0.17772760	3.1330414	20	11 6.2	19.5
223446 2003 SW_{311}	15.3	X	270.60650	144.34635	347.77442	5.22426	0.1292793	0.18143023	3.0902689	20	11 21.9	19.4
223447 2003 SU_{330}	16.2	X	23.43680	276.91861	30.86385	11.47279	0.1267511	0.17291275	3.1909356	20	9 29.3	20.3
223448 2003 SQ_{341}	16.2	X	19.23559	136.35238	225.10643	8.38286	0.1720264	0.18127493	3.0920337	20	12 4.8	20.1
223449 2003 TU_{12}	15.0	X	286.68727	78.24155	10.03482	17.53114	0.1428118	0.17467263	3.1694663	20	10 15.9	19.2
223450 2003 TD_{15}	15.4	X	296.91660	42.38045	12.60275	4.74649	0.2633329	0.17352093	3.1834752	20	9 5.2	19.2
223451 2003 TP_{19}	15.5	X	61.87836	165.81567	133.45135	1.63125	0.1555435	0.17780121	3.1321766	20	11 10.4	19.9
223452 2003 TK_{21}	15.2	X	264.69831	280.95955	180.49028	16.85677	0.2219341	0.17186720	3.2038638	20	9 23.2	19.7
223453 2003 TJ_{33}	15.1	X	249.34763	79.34107	33.11708	10.09022	0.0665461	0.17430368	3.1739373	20	10 12.0	19.5
223454 2003 UW	15.6	X	105.44291	96.76981	180.76773	11.26692	0.1063281	0.18725735	3.0258226	20	11 27.4	20.4
223455 2003 UT_{7}	16.2	X	38.99853	162.58499	176.63655	1.22031	0.0710685	0.17794921	3.1304397	20	11 19.1	20.4
223456 2003 UB_{10}	18.2	X	201.53750	105.29116	131.00536	5.14500	0.3357061	0.48699951	1.5999891	20	—	—
223457 2003 UD_{43}	15.0	X	280.31608	66.24278	22.92760	13.73267	0.0727011	0.17583189	3.1555201	20	10 19.9	19.1
223458 2003 UB_{54}	14.7	X	68.73287	49.47289	311.52989	10.93966	0.1854340	0.18494121	3.0510331	20	—	—
223459 2003 UG_{65}	14.8	X	12.03198	290.08944	48.71838	26.56588	0.2560597	0.17505530	3.1648457	20	11 6.6	18.4
223460 2003 UD_{81}	15.0	X	341.85074	309.89373	54.01451	27.95216	0.1869262	0.17093469	3.2155054	20	10 16.3	18.9
223461 2003 UU_{93}	15.5	X	279.16018	263.68234	204.68939	12.72987	0.2725866	0.17504402	3.1649816	20	10 13.6	19.5
223462 2003 UK_{96}	15.2	X	331.95666	351.53457	25.52175	7.92002	0.1588240	0.17092768	3.2155934	20	10 1.7	18.8
223463 2003 UU_{96}	14.4	X	42.49571	57.99257	248.57430	15.05202	0.2601183	0.17960243	3.1111999	20	11 9.7	18.7
223464 2003 UY_{101}	15.2	X	19.12943	258.75747	57.17757	5.31236	0.1635883	0.17228084	3.1987336	20	10 6.4	19.1
223465 2003 UL_{110}	15.4	X	274.08680	343.89487	100.92273	2.70786	0.1998480	0.17045935	3.2214804	20	9 18.9	19.6
223466 2003 UE_{133}	15.0	X	242.54510	338.72537	353.40520	9.64383	0.0795779	0.15027031	3.5039180	20	4 7.1	20.3
223467 2003 UR_{137}	14.8	X	253.91329	75.15068	56.41640	9.07902	0.0504339	0.17521647	3.1629047	20	11 11.2	19.1
223468 2003 UH_{153}	15.4	X	269.50993	34.09802	56.44633	5.94316	0.1386570	0.17128706	3.2110939	20	9 30.5	19.8
223469 2003 UB_{208}	15.3	X	267.30601	237.55646	226.81458	11.83334	0.1753773	0.17157974	3.2074412	20	10 4.1	19.8
223470 2003 UM_{241}	14.9	X	151.47726	162.37251	42.19848	11.13434	0.0819100	0.17239706	3.1972958	20	10 15.7	19.8
223471 2003 UA_{251}	15.3	X	22.60823	110.11237	273.68360	4.35722	0.1778670	0.17969191	3.1101669	20	—	—
223472 2003 UW_{270}	15.0	X	141.19449	215.56841	53.07453	12.84248	0.1232487	0.18434972	3.0575558	20	12 18.2	19.9
223473 2003 UT_{277}	14.6	X	37.94591	115.34471	184.81720	15.69835	0.0781616	0.17264466	3.1942381	20	9 30.5	18.8
223474 2003 UF_{375}	15.9	X	299.93776	268.92255	236.05094	3.83667	0.0651386	0.19139360	2.9820696	20	—	—
223475 2003 VY_{3}	14.6	X	314.88334	150.07069	244.92794	17.46839	0.0961567	0.16967896	3.2313504	20	9 20.8	19.1
223476 2003 WN_{56}	16.9	X	238.27209	204.02534	322.00955	3.06698	0.1572867	0.28232236	2.3012963	20	12 14.0	19.5
223477 2003 WX_{62}	15.0	X	215.71499	3.55306	44.11550	6.05613	0.0565386	0.15265140	3.4673860	20	6 11.8	20.1
223478 2003 WT_{139}	17.5	X	101.20408	164.04169	244.55576	5.21821	0.1495436	0.31197031	2.1530819	20	1 26.5	19.6
223479 2003 WL_{154}	14.3	X	352.73291	153.88787	96.71717	11.25964	0.0297844	0.15038258	3.5021737	20	5 24.6	19.1
223480 2003 XV_{38}	15.6	X	353.69273	130.69953	291.44179	9.01246	0.2245729	0.17683280	3.1436016	20	—	—
223481 2003 YM_{27}	14.6	X	309.24729	32.01675	97.05812	29.04800	0.2123854	0.17471723	3.1689270	20	—	—
223482 2003 YL_{32}	13.9	X	25.35552	64.89187	86.08881	11.12516	0.1940428	0.12546379	3.9517590	20	3 20.9	18.6
223483 2003 YF_{36}	17.0	X	134.84633	273.13585	84.14345	6.29900	0.2387885	0.30898107	2.1669462	20	1 18.1	19.8
223484 2003 YQ_{61}	16.5	X	345.26531	189.96128	268.57799	6.99527	0.1007050	0.29727582	2.2234617	20	—	—
223485 2003 YE_{82}	16.9	X	36.51833	80.91936	349.21825	1.86820	0.0603823	0.30087299	2.2057041	20	—	—
223486 2003 YM_{88}	17.0	X	9.74951	178.20843	281.90830	1.44662	0.0765080	0.30116322	2.2042868	20	—	—
223487 2003 YT_{111}	17.0	X	142.93744	264.56016	68.78064	7.56949	0.0516180	0.30669682	2.1776924	20	—	—
223488 2003 YN_{145}	17.4	X	41.31929	47.86264	15.41386	7.34774	0.1522067	0.30046794	2.2076859	20	—	—
223489 2003 YV_{170}	17.1	X	340.79046	112.94439	354.52606	3.68873	0.1146243	0.29722397	2.2237203	20	—	—
223490 2003 YN_{180}	16.4	X	133.33224	251.83772	326.98302	9.64335	0.1826758	0.27637173	2.3342121	20	10 23.9	20.4
223491 2004 BY_{11}	17.4	X	48.81953	94.42142	316.35733	3.52467	0.1585476	0.29979260	2.2110002	20	—	—
223492 2004 BV_{28}	14.8	X	39.99412	50.16705	81.32359	4.24910	0.1630116	0.12722581	3.9151874	20	3 15.3	19.6
223493 2004 BH_{43}	16.5	X	130.55788	127.83559	114.18320	6.28767	0.0680955	0.27945555	2.3170081	20	11 25.7	19.8
223494 2004 BT_{43}	17.1	X	224.73060	168.04073	15.58880	2.77406	0.0841870	0.28528616	2.2853300	20	12 31.9	19.7
223495 2004 BV_{43}	17.0	X	243.12929	152.06896	38.01010	2.35791	0.1558639	0.28822740	2.2697562	20	—	—
223496 2004 BS_{52}	18.2	X	19.61696	327.53615	138.39302	2.17574	0.1241037	0.30231413	2.1986887	20	—	—
223497 2004 BM_{81}	17.0	X	341.42270	144.69922	329.44650	7.70275	0.1008668	0.29712796	2.2241993	20	—	—
223498 2004 BV_{91}	16.8	X	45.26485	95.93798	304.77568	5.85247	0.0721145	0.29594908	2.2301020	20	—	—
223499 2004 BS_{93}	16.2	X	99.88015	28.03780	206.68848	12.41094	0.1776720	0.27028034	2.3691528	20	10 16.9	19.9
223500 2004 BW_{99}	17.0	X	1.97414	302.50973	126.68225	6.69639	0.0611689	0.28793958	2.2712685	20	—	—
223501 2004 BM_{106}	17.1	X	86.40286	284.19716	107.74966	5.34252	0.1144695	0.30212152	2.1996231	20	—	—
223502 2004 BY_{107}	17.6	X	24.26861	10.86590	91.62801	4.15950	0.1139738	0.30160465	2.2021355	20	—	—
223503 2004 BM_{108}	16.7	X	308.57321	60.86753	92.10691	6.69509	0.0662910	0.29540241	2.2328525	20	—	—
223504 2004 BK_{115}	16.0	X	355.44092	234.40007	342.67980	4.87661	0.1322713	0.25214877	2.4814078	20	3 30.3	18.5
223505 2004 BB_{118}	16.8	X	93.81170	182.50598	259.87731	4.06408	0.0846862	0.31027210	2.1609310	20	2 22.6	19.0
223506 2004 BZ_{131}	16.5	X	111.84890	155.42395	132.81667	10.09256	0.1046976	0.28703934	2.2760149	20	—	—
223507 2004 CL_{19}	17.1	X	57.61595	148.43646	268.69666	2.28211	0.1059115	0.30172545	2.2015477	20	—	—
223508 2004 CS_{19}	17.9	X	89.86227	20.14345	19.35206	2.16497	0.1688273	0.30465466	2.1874132	20	—	—
223509 2004 CX_{21}	16.9	X	114.31413	92.99926	307.10139	4.93534	0.1537203	0.30708480	2.1758577	20	2 6.1	19.2
223510 2004 CC_{22}	16.8	X	202.97919	24.89315	187.45727	2.26143	0.1759799	0.28349590	2.2949410	20	12 27.4	19.7
223511 2004 CE_{38}	16.7	X	278.35297	329.41792	169.75621	8.87977	0.0827532	0.28853305	2.2681529	20	—	—
223512 2004 CA_{43}	16.7	X	229.60235	137.17652	69.47892	1.94362	0.0484261	0.28825724	2.2695995	20	—	—
223513 2004 CJ_{45}	17.7	X	331.27462	65.87484	44.88010	4.34594	0.0909587	0.29333679	2.2433224	20	—	—
223514 2004 CM_{46}	16.8	X	9.36708	301.63353	160.09156	5.33555	0.1326795	0.29703552	2.2246608	20	—	—
223515 2004 CU_{58}	16.5	X	169.26513	187.82472	29.98558	5.01340	0.2105011	0.28021366	2.3128272	20	11 26.1	20.3
223516 2004 CU_{61}	17.2	X	106.57419	350.55813	26.87571	4.02681	0.1580368	0.30297918	2.1954701	20	—	—
223517 2004 CF_{80}	16.1	X	169.25823	240.68226	5.11798	5.73475	0.1302761	0.28284028	2.2984861	20	—	—
223518 2004 CK_{97}	16.2	X	232.47675	200.07757	357.17411	6.12376	0.0879930	0.28565424	2.2833664	20	—	—
223519 2004 CZ_{98}	17.2	X	168.47970	40.64982	164.41952	3.15419	0.1754120	0.27599154	2.3363552	20	11 12.8	20.8
223520 2004 CF_{100}	16.5	X	285.55530	33.04229	119.33658	6.36594	0.0843581	0.28904484	2.2654748	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223521 2004 CZ_{100}	16.5	X	346.71328	135.05531	340.66779	7.18026	0.0529021	0.29260864	2.2470425	20	—	—
223522 2004 CH_{113}	16.6	X	31.38557	324.21151	101.07200	6.32712	0.1217175	0.29760020	2.2218457	20	—	—
223523 2004 DX_{11}	17.0	X	38.30963	34.50071	179.75641	3.96744	0.1967580	0.25549625	2.4596861	20	7 1.1	19.4
223524 2004 DF_{24}	16.2	X	154.06977	343.45343	240.85184	5.73166	0.1224429	0.27616283	2.3353890	20	11 24.8	19.7
223525 2004 DB_{25}	16.0	X	58.31454	201.99969	160.63059	24.64435	0.1802083	0.28616684	2.2806388	20	—	—
223526 2004 DX_{26}	17.3	X	85.78658	211.20753	26.20398	2.20754	0.1892465	0.26651869	2.3913929	20	10 7.5	20.9
223527 2004 DS_{38}	16.5	X	156.94344	196.18811	20.05709	6.53197	0.0711221	0.27506565	2.3415951	20	11 18.3	19.7
223528 2004 DO_{41}	16.3	X	196.90410	158.28589	50.00750	4.56310	0.0894345	0.28079087	2.3096565	20	12 25.9	19.4
223529 2004 DK_{42}	16.8	X	45.42466	282.52109	179.29052	8.56957	0.1445280	0.30278728	2.1963976	20	1 2.8	18.6
223530 2004 DP_{43}	16.9	X	186.86564	73.77745	131.55860	3.34946	0.1166070	0.27954015	2.3165406	20	12 6.9	20.2
223531 2004 DH_{55}	17.5	X	43.28485	55.52193	174.24636	1.14895	0.1492326	0.26003640	2.4309719	20	7 26.1	20.1
223532 2004 EH_{5}	16.4	X	19.57803	303.46174	4.37442	6.43384	0.1237178	0.26722780	2.3871605	20	10 6.9	19.0
223533 2004 EH_{8}	16.5	X	141.98099	64.34621	182.89669	3.71967	0.1078799	0.27666688	2.3325516	20	12 12.4	19.9
223534 2004 EV_{11}	16.9	X	53.24988	195.82723	241.81281	3.61229	0.1297463	0.30201064	2.2001615	20	—	—
223535 2004 EK_{15}	16.3	X	206.19237	102.49697	86.46045	8.85883	0.0527692	0.27982534	2.3149664	20	12 16.9	19.3
223536 2004 EP_{16}	16.2	X	78.61306	255.33679	37.84586	9.08239	0.1158321	0.27340169	2.3510864	20	12 2.9	19.6
223537 2004 EA_{19}	16.5	X	216.26808	162.90605	43.13174	4.17966	0.1987359	0.28369229	2.2938818	20	—	—
223538 2004 ER_{22}	16.5	X	149.13740	105.97851	112.01095	3.41767	0.1069411	0.27365295	2.3496470	20	11 12.9	19.9
223539 2004 EX_{25}	16.9	X	30.73900	351.81737	318.31528	3.80573	0.1584318	0.26849365	2.3796516	20	11 1.4	19.7
223540 2004 ES_{30}	17.1	X	25.57857	1.72619	269.38395	1.53962	0.1765579	0.26010277	2.4305584	20	8 30.9	19.4
223541 2004 ER_{40}	17.0	X	98.89833	296.00986	317.17272	1.62414	0.1849680	0.26959896	2.3731430	20	11 8.2	20.6
223542 2004 EK_{42}	16.8	X	221.41926	24.56500	148.18180	2.99846	0.1088589	0.27937948	2.3174287	20	12 7.1	19.5
223543 2004 EV_{42}	16.6	X	103.78286	209.34767	59.14250	3.19034	0.1837555	0.27187001	2.3599086	20	12 2.1	20.3
223544 2004 EJ_{46}	16.9	X	54.94274	184.98070	70.02473	6.30419	0.1984998	0.26299299	2.4127182	20	9 30.1	20.1
223545 2004 EA_{60}	16.7	X	275.03027	304.89679	241.23628	5.96973	0.0688402	0.28871656	2.2671918	20	—	—
223546 2004 EN_{63}	17.6	X	308.96615	226.30320	225.85141	2.60874	0.1676314	0.28397828	2.2923414	20	—	—
223547 2004 EH_{68}	17.1	X	220.49252	247.62126	296.77535	1.94904	0.1193240	0.28303481	2.2974328	20	12 20.5	19.7
223548 2004 EM_{71}	17.1	X	155.94857	332.75803	204.04261	0.86999	0.1228846	0.26980972	2.3719070	20	9 25.6	20.7
223549 2004 EL_{73}	17.5	X	231.23684	353.13109	196.93341	1.48459	0.1605126	0.28322717	2.2963924	20	—	—
223550 2004 EM_{73}	17.1	X	137.26506	24.05182	180.25037	2.09745	0.1575554	0.26913327	2.3758798	20	10 13.0	20.8
223551 2004 ES_{73}	17.1	X	37.57160	235.76920	11.10260	1.03960	0.1578906	0.25812648	2.4429487	20	8 13.1	19.6
223552 2004 EJ_{76}	17.1	X	169.77719	180.80780	28.97262	2.75617	0.1407238	0.27644281	2.3338119	20	11 20.8	20.5
223553 2004 EB_{77}	17.2	X	58.22640	122.26504	101.33522	2.38536	0.1393867	0.25921057	2.4361325	20	8 8.6	20.2
223554 2004 EN_{84}	16.7	X	169.16418	220.46937	41.03957	4.24406	0.1768996	0.28419641	2.2911683	20	—	—
223555 2004 EW_{84}	17.1	X	14.58021	177.58214	86.34364	3.27361	0.1808217	0.25712116	2.4493123	20	7 30.3	19.1
223556 2004 ES_{86}	17.1	X	108.69226	126.84855	100.92893	3.57190	0.1582939	0.26848396	2.3797088	20	10 17.1	20.8
223557 2004 EL_{90}	17.0	X	1.58717	327.00414	130.50873	4.47840	0.0902377	0.29107335	2.2549371	20	—	—
223558 2004 EP_{93}	16.4	X	59.95615	151.73417	154.54159	6.28383	0.1007519	0.27383616	2.3485989	20	11 29.7	19.6
223559 2004 ED_{100}	17.5	X	323.12014	262.98327	181.45918	6.22801	0.0728005	0.28413083	2.2915208	20	—	—
223560 2004 ET_{106}	17.3	X	348.79543	104.92493	184.72136	2.55799	0.1793868	0.25712391	2.4492949	20	7 10.1	19.1
223561 2004 EN_{114}	16.9	X	82.67488	80.54145	139.95511	3.12990	0.1052265	0.26453858	2.4033114	20	9 1.6	20.0
223562 2004 EB_{116}	16.7	X	36.03946	320.78565	352.35263	6.59829	0.1176869	0.27213482	2.3583774	20	11 6.5	19.7
223563 2004 FJ_{2}	16.6	X	198.23776	164.18440	17.08635	4.28653	0.1312183	0.27667983	2.3324789	20	11 14.8	19.9
223564 2004 FD_{7}	17.3	X	1.11468	294.73255	160.30331	2.29812	0.0740949	0.29229216	2.2486642	20	—	—
223565 2004 FD_{15}	16.1	X	159.65100	180.43263	10.96538	6.00950	0.1446807	0.27037799	2.3685824	20	10 17.0	19.8
223566 Petignat	17.2	X	286.85674	252.46338	247.20902	2.06998	0.1681017	0.28654093	2.2786534	20	—	—
223567 2004 FL_{21}	17.3	X	30.74441	126.91514	316.56690	3.57601	0.1343813	0.29608696	2.2294096	20	—	—
223568 2004 FE_{22}	16.1	X	92.92702	50.82070	214.73754	6.08365	0.0783784	0.26991040	2.3713171	20	11 11.0	19.2
223569 2004 FP_{27}	17.4	X	204.90742	146.87071	334.67063	1.71249	0.0875038	0.26928180	2.3750060	20	9 8.5	20.4
223570 2004 FO_{35}	17.3	X	274.66940	20.76057	113.39051	1.97461	0.1591381	0.28358365	2.2944676	20	—	—
223571 2004 FS_{37}	16.4	X	2.30722	180.90593	168.29811	10.17431	0.0849834	0.27293357	2.3537739	20	11 7.1	19.1
223572 2004 FU_{38}	16.1	X	144.91602	359.00979	210.61570	8.68281	0.1452678	0.27054094	2.3676312	20	10 26.9	19.8
223573 2004 FK_{40}	17.1	X	73.17935	254.26896	333.82477	1.90155	0.1437461	0.26390401	2.4071624	20	9 4.7	20.3
223574 2004 FA_{53}	16.4	X	287.22901	116.59848	31.70657	6.14393	0.1085063	0.28556991	2.2838159	20	—	—
223575 2004 FZ_{55}	16.5	X	252.09413	243.80265	27.80797	11.42300	0.2534577	0.23453326	2.6041525	20	1 21.1	21.2
223576 2004 FV_{61}	16.9	X	140.75394	174.27060	64.05501	2.36565	0.0843990	0.27540639	2.3396633	20	11 29.8	20.1
223577 2004 FE_{64}	16.6	X	46.78103	231.34150	35.03407	6.61216	0.1125013	0.26145802	2.4221520	20	9 20.1	19.5
223578 2004 FU_{76}	16.9	X	15.83214	305.45629	358.05669	6.96073	0.1164235	0.26575873	2.3959497	20	9 23.4	19.4
223579 2004 FM_{77}	17.1	X	284.89757	75.21375	358.09012	3.62552	0.1061064	0.27503848	2.3417494	20	10 22.6	19.4
223580 2004 FD_{83}	16.7	X	122.52499	203.80580	21.54799	1.55548	0.1456943	0.26831247	2.3807227	20	10 24.8	20.4
223581 2004 FF_{99}	16.7	X	266.29961	338.71921	151.81311	6.56632	0.0576146	0.27925103	2.3181393	20	12 21.7	19.3
223582 2004 FQ_{105}	17.6	X	119.69624	117.52072	118.54415	5.63830	0.1334943	0.27198789	2.3592267	20	11 7.1	21.2
223583 2004 FO_{107}	16.5	X	330.76501	171.62008	297.49975	1.40448	0.0934651	0.28724404	2.2749335	20	—	—
223584 2004 FY_{107}	16.5	X	18.76977	124.35500	184.05134	5.77784	0.0957704	0.26778100	2.3838717	20	10 3.3	19.0
223585 2004 FA_{110}	16.7	X	172.47619	7.11740	200.78029	5.29346	0.1764866	0.27381014	2.3487477	20	11 19.4	20.2
223586 2004 FW_{118}	16.4	X	257.05821	317.83046	185.75423	8.15581	0.1260864	0.27947497	2.3169008	20	12 16.7	19.0
223587 2004 FW_{140}	17.6	X	160.72950	314.72485	254.45904	0.70431	0.1312197	0.27440881	2.3453303	20	11 11.5	21.0
223588 2004 FH_{141}	16.7	X	138.44581	214.75731	15.52251	7.30060	0.1078858	0.27251671	2.3561736	20	11 14.3	20.3
223589 2004 FO_{161}	17.6	X	113.90365	63.09671	160.12816	4.00337	0.1196685	0.26977499	2.3721105	20	10 13.9	21.0
223590 2004 GK_{3}	17.1	X	260.60577	350.15238	188.24834	2.15405	0.0495913	0.28495005	2.2871267	20	—	—
223591 2004 GA_{20}	17.2	X	87.84671	288.81489	318.50823	1.72157	0.1812780	0.26430987	2.4046976	20	10 20.1	20.7
223592 2004 GT_{20}	15.7	X	244.78594	157.16327	104.40740	13.91265	0.2550324	0.22906913	2.6454019	20	1 1.7	20.4
223593 2004 GJ_{29}	17.5	X	314.36715	320.77930	189.75310	1.86140	0.1124837	0.29026674	2.2591125	20	—	—
223594 2004 GW_{32}	17.0	X	81.69430	68.29204	216.92446	6.32075	0.1070250	0.26984645	2.3716918	20	11 26.4	20.4
223595 2004 GG_{36}	16.8	X	190.17743	160.66896	38.68102	7.24586	0.0862558	0.27411710	2.3469939	20	12 3.7	20.0
223596 2004 GK_{48}	17.5	X	314.39851	229.84314	208.03643	2.93617	0.1491920	0.27902961	2.3193654	20	12 27.0	19.3
223597 2004 GC_{50}	16.5	X	294.06782	135.46877	224.43298	6.16210	0.1267034	0.25831083	2.4417862	20	7 13.5	19.3
223598 2004 GO_{50}	17.1	X	289.74777	65.67620	5.58940	5.13584	0.1058933	0.27235953	2.3570800	20	10 27.1	19.6
223599 2004 GA_{61}	17.2	X	200.67072	30.58857	168.93005	2.15888	0.1158938	0.27679731	2.3318188	20	12 14.5	20.3
223600 2004 GF_{75}	17.1	X	206.34476	174.31973	359.39730	3.87080	0.1729056	0.27534600	2.3400054	20	11 8.7	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223601 2004 GY_{78}	17.4	X	300.86875	293.96182	199.74084	2.10726	0.1593368	0.28671004	2.2777573	20	—	—
223602 2004 GK_{84}	17.3	X	164.00025	120.99290	41.19355	2.06707	0.1273116	0.26617778	2.3934343	20	9 15.4	20.9
223603 2004 GB_{85}	16.9	X	247.42258	289.91125	164.06651	8.17150	0.0671964	0.26880323	2.3778241	20	9 30.9	19.7
223604 2004 HN_{2}	16.6	X	257.14562	57.16188	193.32649	12.39856	0.2512926	0.22947423	2.6422877	20	—	—
223605 2004 HF_{8}	17.2	X	219.08131	216.62372	283.69056	1.72621	0.1309923	0.27260907	2.3556414	20	10 15.5	20.4
223606 2004 HT_{8}	16.8	X	203.79793	81.35595	68.17397	6.42900	0.0707393	0.27020328	2.3696033	20	10 19.9	19.9
223607 2004 HT_{18}	17.0	X	286.38953	46.64074	215.39870	3.52519	0.2098015	0.24000103	2.5644485	20	2 7.8	20.9
223608 2004 HK_{19}	15.4	X	281.96937	261.90387	27.24326	11.77058	0.2895829	0.23734757	2.5835262	20	3 5.4	19.5
223609 2004 HF_{26}	16.9	X	281.37457	98.20362	171.49713	3.42422	0.2160814	0.23664521	2.5886355	20	2 12.5	20.7
223610 2004 HQ_{39}	16.3	X	347.17609	294.17341	39.97315	7.86428	0.0931462	0.26296690	2.4128778	20	9 19.6	18.8
223611 2004 HJ_{54}	16.3	X	106.64425	302.04662	273.18845	7.90563	0.1897104	0.26391036	2.4071238	20	9 24.5	20.3
223612 2004 HE_{60}	16.3	X	275.35626	321.52441	312.33271	4.28885	0.2126427	0.23712648	2.5851318	20	2 12.2	20.1
223613 2004 HT_{65}	17.2	X	324.38566	91.94517	18.88807	3.74821	0.2022090	0.28954532	2.2628635	20	—	—
223614 2004 HZ_{71}	17.4	X	272.42736	303.65150	190.68565	1.62549	0.1431899	0.27916357	2.3186234	20	12 27.8	19.3
223615 2004 HP_{72}	13.5	X	318.50951	238.86361	168.79054	2.62118	0.0387841	0.08424237	5.1536588	20	10 8.4	20.1
223616 2004 JR_{2}	16.0	X	191.06141	258.95012	30.14274	16.10772	0.2464704	0.22308327	2.6925145	20	—	—
223617 2004 JE_{6}	16.2	X	205.16159	337.49691	134.25188	7.93307	0.1200505	0.26292094	2.4131590	20	8 23.7	19.6
223618 2004 JZ_{10}	16.6	X	272.77814	109.31701	176.52115	9.36961	0.1940253	0.23625897	2.5914560	20	2 25.5	20.5
223619 2004 JR_{11}	16.4	X	215.34855	158.34708	157.55694	13.34226	0.2937801	0.22933697	2.6433419	20	2 10.4	21.4
223620 2004 JX_{12}	16.1	X	267.04455	316.50689	5.93522	4.98669	0.2432302	0.24017166	2.5632337	20	3 31.6	20.2
223621 2004 JK_{15}	16.4	X	304.93808	30.22337	219.45105	4.26791	0.1666724	0.23787617	2.5796973	20	2 19.3	19.9
223622 2004 JX_{15}	15.7	X	237.91153	81.20147	234.10378	10.47209	0.2102522	0.23351131	2.6117450	20	2 25.0	20.3
223623 2004 JZ_{19}	16.1	X	301.61252	208.22516	35.58727	7.64763	0.0946467	0.23848507	2.5753045	20	2 23.7	19.5
223624 2004 JQ_{20}	15.5	X	240.08825	130.02508	203.03743	30.69540	0.2368567	0.23386932	2.6090789	20	3 19.6	20.2
223625 2004 JM_{21}	17.2	X	251.93187	341.39613	206.31581	2.45909	0.1051405	0.28307327	2.2972247	20	—	—
223626 2004 JT_{23}	16.2	X	152.69169	341.46735	219.87757	13.73964	0.1608057	0.27085273	2.3658138	20	10 22.7	19.9
223627 2004 JF_{29}	16.5	X	265.53574	162.54285	124.74208	2.95318	0.1920317	0.23588707	2.5941791	20	2 22.2	20.3
223628 2004 JF_{30}	15.9	X	241.26257	77.00782	224.22825	10.70981	0.1850082	0.23308327	2.6149415	20	2 12.9	20.3
223629 2004 JH_{33}	16.6	X	270.74132	153.96117	134.49961	3.69104	0.1982956	0.23685910	2.5870769	20	2 28.1	20.6
223630 2004 JY_{33}	17.0	X	62.80186	46.61550	170.35286	3.57683	0.1408250	0.25316463	2.4747654	20	8 4.0	20.1
223631 2004 JJ_{54}	12.9	X	297.47893	307.01469	113.46682	6.08339	0.0463284	0.08134971	5.2751164	20	9 28.7	19.7
223632 2004 JD_{56}	16.2	X	257.44619	124.68749	174.61186	12.37302	0.1710192	0.23492553	2.6012529	20	2 29.4	20.3
223633 Rosnyaîné	16.0	X	225.24516	235.73251	112.27874	6.19558	0.3990265	0.23454867	2.6040385	20	3 24.9	21.1
223634 2004 KV_{4}	16.3	X	243.17315	207.71773	109.00240	4.97342	0.2389627	0.23485745	2.6017556	20	3 6.7	20.7
223635 2004 KW_{9}	16.0	X	275.86241	248.27700	41.25004	13.32895	0.1957878	0.23727771	2.5840332	20	3 12.0	20.0
223636 2004 KZ_{11}	16.3	X	336.30155	334.24120	41.16511	14.72389	0.2163117	0.26706246	2.3881457	20	11 6.9	18.0
223637 2004 KE_{14}	16.8	X	306.18791	69.84595	172.73558	11.00151	0.1204875	0.23749123	2.5824841	20	2 19.1	20.3
223638 2004 KS_{15}	16.8	X	160.73528	359.45466	217.16728	6.41288	0.0679479	0.27120558	2.3637614	20	11 24.5	20.1
223639 2004 KM_{16}	17.0	X	241.91679	83.60350	192.00086	11.40665	0.1772534	0.22959363	2.6413715	20	1 16.9	21.5
223640 2004 LJ_{6}	15.9	X	208.34814	260.19647	69.85350	13.08442	0.2352982	0.23073726	2.6326364	20	2 29.3	20.7
223641 2004 LA_{16}	15.5	X	245.45524	335.93285	268.86977	12.81203	0.2142271	0.22249271	2.6972769	20	—	—
223642 2004 LZ_{18}	16.7	X	284.59820	217.37826	100.81994	3.99714	0.1529528	0.24415451	2.5352817	20	4 28.8	20.1
223643 2004 LX_{29}	15.9	X	331.43629	340.87321	276.92232	12.83934	0.0605365	0.23705266	2.5856684	20	4 21.7	19.3
223644 2004 MG	16.2	X	236.60213	108.56060	218.11852	11.24554	0.2718350	0.23443745	2.6048620	20	3 6.1	20.9
223645 2004 ML_{1}	16.8	X	297.29380	89.60988	169.20339	4.78494	0.1923602	0.23710711	2.5852725	20	2 19.1	20.5
223646 2004 ME_{4}	16.3	X	225.23736	234.06358	97.29114	12.37174	0.1801943	0.23388438	2.6089669	20	3 16.2	20.8
223647 2004 MK_{7}	16.2	X	206.88831	253.85866	55.10947	8.97697	0.2859204	0.22339754	2.6899887	20	2 1.0	21.2
223648 2004 NQ	16.2	X	179.80457	39.87832	250.99370	8.60920	0.1969670	0.21553326	2.7550312	20	—	—
223649 2004 NW_{8}	16.1	X	255.98567	275.53363	64.31274	5.22362	0.1705845	0.23625892	2.5914564	20	4 21.3	19.9
223650 2004 NF_{10}	15.9	X	251.96236	176.39841	116.36238	13.41391	0.1751277	0.22840022	2.6505644	20	2 20.0	20.2
223651 2004 OZ_{2}	16.6	X	145.11827	102.51279	222.55775	3.30786	0.2057121	0.21315150	2.7755163	20	—	—
223652 2004 OQ_{14}	16.1	X	190.10220	267.03882	116.36917	4.70874	0.1554185	0.23026162	2.6362606	20	4 14.6	20.3
223653 2004 PF	15.8	X	166.24984	169.25465	174.95958	9.94058	0.1793868	0.21826110	2.7320280	20	2 4.1	20.3
223654 2004 PF_{13}	15.9	X	197.04315	136.66826	186.05025	4.37042	0.0955137	0.22088198	2.7103738	20	2 4.1	20.0
223655 2004 PX_{16}	16.1	X	271.64534	35.93446	226.82359	3.52718	0.2686855	0.22711008	2.6605930	20	1 22.1	20.4
223656 2004 PZ_{17}	15.5	X	153.64500	236.42634	109.27789	6.76040	0.1276306	0.21570721	2.7535498	20	1 23.5	19.5
223657 2004 PL_{20}	16.3	X	170.82646	248.04850	120.95228	4.32010	0.1196980	0.22496210	2.6775021	20	3 8.3	20.4
223658 2004 PX_{22}	16.3	X	100.29748	67.83895	312.31958	3.05394	0.2172528	0.21193691	2.7861104	20	1 18.2	20.0
223659 2004 PM_{26}	16.6	X	117.39794	268.69927	131.79951	4.16503	0.1995081	0.21753008	2.7381454	20	2 29.6	20.6
223660 2004 PW_{28}	15.6	X	145.85595	81.01500	292.61843	6.71142	0.1688921	0.21751344	2.7382850	20	2 19.3	20.0
223661 2004 PW_{32}	16.0	X	221.97779	267.13617	24.14044	5.21095	0.1386469	0.22028083	2.7153027	20	1 23.9	20.3
223662 2004 PS_{36}	16.0	X	168.68718	124.87086	197.13157	4.96912	0.1298972	0.21622393	2.7491613	20	1 9.1	20.3
223663 2004 PY_{36}	15.7	X	143.70522	50.22329	248.63830	10.66211	0.1599958	0.20944929	2.8081273	20	—	—
223664 2004 PE_{37}	15.9	X	113.54867	219.14186	152.67063	6.43574	0.0500916	0.21397424	2.7683971	20	—	—
223665 2004 PH_{37}	15.8	X	266.85907	0.59614	252.95376	11.15220	0.1209217	0.22371506	2.6874428	20	1 18.6	20.0
223666 2004 PN_{38}	15.7	X	141.94095	224.08812	142.82421	11.16578	0.1456407	0.21531855	2.7568623	20	2 7.3	19.9
223667 2004 PW_{43}	16.1	X	187.42944	138.26273	185.04542	4.48063	0.1088673	0.21848570	2.7301554	20	1 27.1	20.4
223668 2004 PB_{48}	16.6	X	165.18017	63.61738	254.21046	3.22391	0.1612443	0.21590434	2.7518735	20	1 3.8	20.8
223669 2004 PO_{53}	15.4	X	68.11103	178.58051	335.04361	13.89924	0.1299972	0.23308208	2.6149504	20	5 5.7	19.0
223670 2004 PL_{59}	16.0	X	202.08294	127.41147	178.45282	6.03254	0.0474817	0.21898029	2.7260430	20	1 19.5	20.1
223671 2004 PU_{59}	16.4	X	91.10563	172.22849	176.09500	3.25582	0.1996356	0.20574532	2.8417296	20	—	—
223672 2004 PZ_{60}	16.0	X	145.04920	192.28096	165.94271	9.84327	0.1682078	0.21501703	2.7594391	20	2 1.1	20.3
223673 2004 PJ_{70}	16.5	X	112.78739	152.05664	207.48130	4.46962	0.1658289	0.21041527	2.7995262	20	—	—
223674 2004 PW_{74}	16.0	X	112.53177	169.72012	207.90223	4.20317	0.1346972	0.21366115	2.7711009	20	1 16.9	19.8
223675 2004 PD_{79}	15.9	X	130.12771	120.34305	253.80872	4.20449	0.0863167	0.21636903	2.7479320	20	1 26.3	19.8
223676 2004 PE_{81}	16.3	X	194.86329	287.19087	357.85745	4.11513	0.0872654	0.21443889	2.7643966	20	—	—
223677 2004 PL_{81}	16.1	X	130.96385	223.30021	140.74556	8.77709	0.2342169	0.21374370	2.7703874	20	2 2.4	20.3
223678 2004 PH_{82}	16.5	X	151.00930	327.29896	5.31622	4.27102	0.1141914	0.21388834	2.7691383	20	1 4.2	20.6
223679 2004 PA_{86}	15.7	X	225.57251	310.17576	301.21380	12.05531	0.1465938	0.21737623	2.7394372	20	—	—
223680 2004 PF_{87}	16.1	X	125.57933	29.34419	359.86097	5.84943	0.0799775	0.21927947	2.7235628	20	2 10.3	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223681 2004 PE_{89}	16.3	X	210.56096	95.49222	177.63048	8.92425	0.1824758	0.21836032	2.7312004	20	—	—
223682 2004 PO_{92}	15.5	X	127.89125	23.40039	286.75647	10.03767	0.1262624	0.20491803	2.8493727	20	—	—
223683 2004 PA_{93}	16.1	X	143.52728	337.14271	8.25605	8.85528	0.2782197	0.21433459	2.7652934	20	1 29.6	20.8
223684 2004 PM_{93}	15.9	X	62.36567	128.78512	292.89360	8.28420	0.1058853	0.20868595	2.8149709	20	1 1.1	19.3
223685 Hartopp	15.6	X	45.44023	167.82205	275.66908	13.95043	0.1083591	0.21252418	2.7809754	20	1 1.2	18.9
223686 2004 QV_{1}	16.0	X	56.78233	195.30792	192.77625	17.80130	0.2404222	0.20242896	2.8726824	20	—	—
223687 2004 QN_{11}	15.9	X	167.45071	312.10997	12.25420	9.22140	0.1616713	0.21531831	2.7568644	20	1 15.9	20.4
223688 2004 QQ_{17}	14.8	X	277.77685	76.73617	345.01178	24.99770	0.2657807	0.17775505	3.1327188	20	8 21.6	19.2
223689 2004 QA_{26}	16.8	X	97.48679	336.19563	97.15406	2.46128	0.1577197	0.21968602	2.7202016	20	3 13.0	20.3
223690 2004 QD_{27}	16.8	X	348.98512	278.34211	212.53815	3.75412	0.0142596	0.21098672	2.7944690	20	—	—
223691 2004 QK_{27}	16.0	X	149.24094	353.06617	348.04364	14.09329	0.1387213	0.21493059	2.7601789	20	1 18.1	20.4
223692 2004 RK_{1}	15.3	X	153.27448	338.15666	3.10977	17.32483	0.2244777	0.21385262	2.7694466	20	2 1.2	20.1
223693 2004 RG_{16}	16.2	X	123.03438	64.36370	316.11354	2.96534	0.1107143	0.21460321	2.7629853	20	1 30.6	20.1
223694 2004 RT_{21}	16.5	X	187.52244	147.35794	189.51097	1.71365	0.1795431	0.21944684	2.7221778	20	2 14.8	21.0
223695 2004 RC_{24}	17.1	X	314.18376	314.98597	173.07973	25.19506	0.0567929	0.39007224	1.8551229	20	—	—
223696 2004 RL_{26}	16.4	X	121.34308	13.30292	341.66975	12.45196	0.1858845	0.21082965	2.7958568	20	1 10.4	20.6
223697 2004 RO_{28}	16.2	X	129.72597	356.19466	350.75802	4.05862	0.0808008	0.21136922	2.7910967	20	—	—
223698 2004 RB_{30}	16.2	X	146.74345	222.27027	141.95848	3.52039	0.0819669	0.21768846	2.7368171	20	2 2.3	20.0
223699 2004 RC_{30}	15.9	X	64.73531	41.81178	325.57152	5.42747	0.0987210	0.20358736	2.8617752	20	—	—
223700 2004 RT_{31}	15.9	X	180.49144	287.33325	19.57828	5.54901	0.0448321	0.21401403	2.7680540	20	—	—
223701 2004 RR_{34}	16.0	X	263.14577	212.05192	58.90872	4.30465	0.1166136	0.22293604	2.6936998	20	2 9.8	20.1
223702 2004 RZ_{34}	16.0	X	168.20262	298.43714	44.88692	5.41996	0.1327377	0.21688441	2.7435771	20	2 5.9	20.3
223703 2004 RM_{35}	16.1	X	126.50392	326.15813	18.74339	5.79042	0.0734411	0.20959910	2.8067891	20	—	—
223704 2004 RQ_{39}	16.3	X	162.61022	183.68010	142.99016	4.79768	0.1002154	0.21370523	2.7707199	20	1 7.1	20.4
223705 2004 RU_{40}	15.3	X	113.89996	273.08805	65.99694	15.71419	0.1668896	0.20537055	2.8451856	20	—	—
223706 2004 RH_{46}	15.9	X	109.26967	3.51448	353.95348	6.09759	0.0918401	0.20837705	2.8177522	20	—	—
223707 2004 RF_{48}	16.2	X	162.11961	234.35472	91.07617	1.72280	0.0689398	0.21275249	2.7789855	20	1 2.7	20.0
223708 2004 RD_{61}	15.9	X	240.31791	107.56651	195.71212	3.54932	0.0738924	0.22270351	2.6955745	20	2 26.1	19.8
223709 2004 RO_{61}	16.0	X	156.83798	14.61561	325.02945	3.09688	0.1298216	0.21374685	2.7703602	20	1 19.9	20.3
223710 2004 RX_{68}	15.6	X	130.24322	215.12664	177.47340	13.07918	0.1611739	0.21493206	2.7601663	20	2 26.8	19.8
223711 2004 RL_{71}	15.6	X	205.82460	203.73247	98.86214	4.08567	0.0997221	0.21606519	2.7505076	20	1 21.9	19.9
223712 2004 RP_{79}	15.4	X	7.77554	12.27232	10.30346	9.89191	0.0802733	0.19042864	2.9921352	20	12 2.9	19.5
223713 2004 RE_{81}	16.4	X	75.50610	113.89762	234.71282	2.04136	0.2183694	0.20055236	2.8905747	20	—	—
223714 2004 RL_{87}	16.0	X	65.75150	305.77720	334.08413	3.72744	0.0792606	0.18963359	3.0004925	20	10 12.1	20.2
223715 2004 RM_{90}	15.6	X	118.81273	137.94499	171.41227	15.34506	0.1482763	0.20483153	2.8501749	20	—	—
223716 2004 RB_{91}	15.7	X	62.00306	91.45148	290.96474	11.87473	0.0700550	0.20575862	2.8416070	20	—	—
223717 2004 RG_{92}	16.4	X	139.19607	166.56097	205.14986	4.37190	0.1404578	0.21617908	2.7495415	20	2 8.4	20.6
223718 2004 RW_{94}	15.9	X	178.08804	61.39005	275.26500	4.96050	0.0487609	0.21788628	2.7351603	20	1 30.6	19.9
223719 2004 RW_{95}	16.0	X	68.49547	131.07317	290.28373	11.02649	0.1119424	0.21289367	2.7777568	20	1 9.6	19.3
223720 2004 RB_{106}	15.5	X	139.51108	145.69442	207.80900	11.58810	0.1484225	0.21103479	2.7940446	20	1 18.1	19.9
223721 2004 RD_{106}	15.2	X	56.37290	86.42148	240.76348	8.55233	0.0799625	0.19187210	2.9771096	20	11 29.9	19.3
223722 2004 RY_{110}	16.0	X	228.73561	81.61119	219.94470	4.04975	0.0788813	0.22036105	2.7146436	20	2 10.8	20.2
223723 2004 RA_{111}	16.2	X	158.81325	323.99656	25.85297	2.40003	0.1129482	0.21451726	2.7637233	20	2 2.1	20.3
223724 2004 RH_{114}	15.6	X	33.45832	277.21788	115.86919	3.15068	0.0724708	0.20149959	2.8815088	20	—	—
223725 2004 RJ_{114}	16.2	X	177.09345	229.38079	106.09756	5.46482	0.1310141	0.21784141	2.7355359	20	2 3.5	20.4
223726 2004 RT_{114}	16.3	X	268.06097	221.35848	68.20772	2.98187	0.1804532	0.22867636	2.6484302	20	3 1.2	20.4
223727 2004 RX_{116}	15.9	X	194.77102	275.15888	47.87438	5.61781	0.1132540	0.21867046	2.7286173	20	2 6.1	20.2
223728 2004 RZ_{116}	16.1	X	138.06117	27.60875	10.77144	9.73530	0.1604633	0.21952068	2.7215674	20	3 15.6	20.2
223729 2004 RK_{131}	17.0	X	100.53991	298.47397	102.93373	0.43875	0.0735325	0.21381878	2.7697389	20	1 23.6	20.5
223730 2004 RE_{139}	15.8	X	144.67550	122.43257	204.67070	12.55599	0.1342372	0.21269153	2.7795165	20	—	—
223731 2004 RM_{139}	16.4	X	41.49255	328.39683	337.48090	2.55050	0.1457995	0.18974834	2.9992826	20	10 23.9	20.4
223732 2004 RV_{139}	15.6	X	144.06058	257.61460	357.74243	10.07494	0.0605304	0.19806292	2.9147452	20	12 7.7	20.1
223733 2004 RD_{141}	15.9	X	98.70464	210.32963	118.53788	6.13786	0.1169306	0.20056319	2.8904706	20	—	—
223734 2004 RK_{149}	15.4	X	133.37598	288.27896	35.94472	6.72829	0.1513437	0.20564715	2.8426338	20	—	—
223735 2004 RR_{149}	16.4	X	188.53075	314.02456	350.03991	1.27659	0.0718078	0.21293298	2.7774149	20	1 5.7	20.4
223736 2004 RY_{149}	15.6	X	233.88543	195.02775	0.36311	12.22669	0.0548266	0.20242510	2.8727190	20	—	—
223737 2004 RR_{152}	15.9	X	135.90437	156.00784	222.03273	8.60360	0.2047959	0.21615441	2.7497506	20	2 17.4	20.4
223738 2004 RA_{153}	16.5	X	236.58595	165.25262	232.76144	6.08556	0.2015256	0.23490392	2.6014124	20	6 10.6	20.5
223739 2004 RO_{156}	16.0	X	123.63226	163.74675	190.40869	12.48090	0.1972338	0.20977309	2.8052368	20	1 9.1	20.4
223740 2004 RU_{160}	16.4	X	4.29560	255.18922	194.22802	5.77890	0.0496969	0.20478234	2.8506313	20	—	—
223741 2004 RT_{161}	15.6	X	302.34700	39.36147	236.92284	12.87244	0.1224830	0.23176470	2.6248502	20	3 26.7	19.2
223742 2004 RS_{167}	16.0	X	156.63752	142.80857	203.73815	9.31118	0.0145533	0.21352467	2.7722816	20	1 14.5	20.0
223743 2004 RT_{173}	16.1	X	131.21067	230.04016	172.36050	9.23543	0.3018207	0.21854014	2.7297020	20	3 25.9	20.6
223744 2004 RV_{175}	15.4	X	253.75950	243.50247	287.39876	10.57851	0.0348083	0.20182826	2.8783796	20	—	—
223745 2004 RV_{179}	16.0	X	96.14454	87.36030	314.70302	10.09936	0.1989331	0.21036510	2.7999713	20	2 6.4	19.7
223746 2004 RO_{180}	15.8	X	143.58331	173.26008	229.02677	5.80309	0.0475387	0.22105317	2.7089743	20	3 10.6	19.8
223747 2004 RA_{184}	15.6	X	140.37594	149.04627	195.05735	7.49940	0.1040638	0.21018748	2.8015485	20	1 4.6	19.7
223748 2004 RT_{188}	15.4	X	154.10899	36.10011	284.62016	7.18781	0.2250618	0.21000520	2.8031695	20	1 3.3	19.8
223749 2004 RO_{189}	15.5	X	124.26642	136.05619	257.13125	8.07622	0.1703201	0.21335852	2.7737207	20	2 20.2	19.8
223750 2004 RJ_{194}	15.8	X	108.29104	172.70586	214.89419	9.10424	0.1678365	0.20971708	2.8057363	20	1 27.5	19.9
223751 2004 RR_{196}	15.4	X	146.23490	25.14128	355.69057	8.96784	0.1704953	0.21390386	2.7690044	20	3 3.2	19.6
223752 2004 RO_{197}	16.1	X	76.81455	151.79719	230.91095	3.51520	0.0878647	0.20435479	2.8546060	20	—	—
223753 2004 RE_{206}	15.4	X	194.73453	92.40730	270.07920	11.49445	0.2264562	0.21945251	2.7221310	20	3 16.7	20.4
223754 2004 RR_{208}	15.3	X	96.97708	116.75938	299.01658	15.46305	0.0468501	0.21470965	2.7620720	20	1 31.3	19.1
223755 2004 RH_{217}	15.4	X	170.87591	46.37768	274.26473	10.84956	0.1752176	0.21175444	2.7877107	20	1 12.9	19.9
223756 2004 RG_{223}	15.6	X	135.31880	52.46412	194.82453	11.60085	0.0398171	0.18941436	3.0028072	20	11 19.6	20.1
223757 2004 RA_{230}	16.9	X	230.31992	56.13948	224.38623	1.85615	0.0528876	0.21286246	2.7780283	20	1 21.3	21.0
223758 2004 RC_{232}	16.6	X	0.43204	348.54269	84.06071	0.39988	0.1761147	0.19602482	2.9349137	20	—	—
223759 2004 RF_{233}	16.5	X	12.89107	240.52936	162.31117	2.43793	0.1055533	0.19445278	2.9507105	20	—	—
223760 2004 RH_{235}	16.2	X	124.29579	123.56981	257.05531	1.57938	0.1839166	0.21259019	2.7803998	20	2 9.9	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223761 2004 RO_{240}	16.4	X	26.56835	229.26050	188.37508	1.79021	0.0595768	0.20308545	2.8664883	20	—	—
223762 2004 RA_{245}	16.5	X	241.59430	241.01822	21.92351	3.04537	0.0256336	0.21520043	2.7578711	20	1 15.1	20.3
223763 2004 RW_{245}	16.3	X	83.53835	31.30506	14.56055	5.79611	0.0666950	0.21099460	2.7943994	20	1 7.1	20.0
223764 2004 RL_{255}	15.5	X	173.03985	266.91545	68.71487	12.08947	0.1516466	0.21498847	2.7596835	20	2 3.8	20.1
223765 2004 RX_{256}	16.1	X	106.67728	216.29812	139.07618	4.35718	0.1048731	0.20976636	2.8052968	20	—	—
223766 2004 RP_{257}	15.4	X	180.80287	314.90530	20.51368	5.70010	0.0989760	0.21617498	2.7495763	20	2 7.1	19.6
223767 2004 RW_{281}	16.4	X	73.45551	37.69913	330.97740	1.17391	0.0792598	0.20323034	2.8651258	20	—	—
223768 2004 RE_{290}	15.2	X	166.62805	242.76448	81.71672	8.74761	0.2217476	0.21289167	2.7777742	20	1 18.1	19.9
223769 2004 RF_{291}	16.6	X	136.11674	121.43690	200.19375	3.77561	0.0987582	0.20968375	2.8060336	20	—	—
223770 2004 RH_{300}	16.2	X	44.54242	79.00767	15.96995	3.36902	0.0600904	0.21203887	2.7852172	20	1 13.7	19.6
223771 2004 RL_{308}	15.7	X	153.47751	145.92871	240.86115	8.59202	0.0453609	0.21827480	2.7319137	20	3 1.2	19.8
223772 2004 RD_{322}	15.7	X	69.61962	92.39530	355.24145	9.00634	0.1496252	0.21107213	2.7937151	20	2 22.0	19.0
223773 2004 RB_{333}	16.1	X	154.19939	249.38245	116.64255	7.21080	0.0920588	0.21696263	2.7429175	20	2 15.1	20.1
223774 2004 SB_{11}	15.7	X	155.74069	235.50794	64.03067	9.90433	0.1438925	0.20887818	2.8132436	20	—	—
223775 2004 SV_{11}	15.4	X	118.68585	260.21475	65.02439	11.94305	0.1892208	0.20578027	2.8414077	20	—	—
223776 2004 SS_{14}	15.3	X	44.37367	255.66299	72.22447	10.08315	0.1078788	0.19067223	2.9895862	20	11 20.6	19.3
223777 2004 SD_{16}	15.3	X	43.82535	276.18757	94.52993	7.45724	0.1010541	0.19745449	2.9207298	20	—	—
223778 2004 SK_{21}	16.2	X	136.27898	105.15673	301.59210	4.55395	0.0601787	0.22261510	2.6962881	20	3 9.4	20.1
223779 2004 SO_{23}	16.2	X	133.96010	25.74313	3.21789	1.03163	0.0997054	0.21350218	2.7724762	20	2 21.3	20.0
223780 2004 SD_{30}	16.7	X	102.61200	176.38596	223.57444	2.02819	0.1886510	0.21045313	2.7991905	20	2 9.8	20.6
223781 2004 SE_{32}	16.0	X	67.74356	13.54263	15.03899	4.64138	0.1277685	0.20275546	2.8695977	20	—	—
223782 2004 ST_{37}	16.5	X	192.38523	43.29224	232.96324	3.44753	0.0318352	0.20990770	2.8040374	20	—	—
223783 2004 SB_{42}	16.3	X	172.28122	118.50125	199.05063	5.59470	0.0907000	0.21351399	2.7723741	20	1 5.0	20.5
223784 2004 SC_{45}	15.7	X	119.77116	304.65061	344.66164	9.92473	0.1082559	0.19765658	2.9187386	20	12 26.2	20.4
223785 2004 SQ_{46}	16.4	X	76.84067	112.91281	315.97641	6.56806	0.2092800	0.20984993	2.8045520	20	2 14.9	19.7
223786 2004 SQ_{47}	15.2	X	146.61870	146.89945	232.71653	11.33724	0.1420494	0.21407785	2.7675038	20	2 22.5	19.6
223787 2004 SD_{48}	15.1	X	331.60670	78.36802	19.97658	13.28460	0.1889847	0.19090615	2.9871436	20	—	—
223788 2004 SK_{50}	15.0	X	207.42054	96.53510	17.79665	22.70171	0.0422834	0.17811770	3.1284652	20	9 7.2	19.8
223789 2004 SR_{50}	15.7	X	153.04162	211.48842	8.02437	9.73351	0.1045636	0.18819582	3.0157551	20	11 1.3	20.5
223790 2004 SZ_{50}	16.3	X	147.33327	313.39777	352.58691	1.63850	0.0221451	0.20232340	2.8736815	20	—	—
223791 2004 TS_{1}	15.8	X	112.08528	265.41333	109.18392	7.04220	0.0758359	0.20944416	2.8081731	20	1 5.9	19.5
223792 2004 TZ_{5}	16.4	X	148.65950	248.99954	60.97968	2.95676	0.0500785	0.20299077	2.8673796	20	—	—
223793 2004 TV_{7}	16.3	X	101.49748	232.45493	187.85943	6.35848	0.0465777	0.21521679	2.7577313	20	2 11.8	20.0
223794 2004 TN_{10}	16.1	X	349.12877	315.41475	155.93867	4.08970	0.1225725	0.20300869	2.8672108	20	—	—
223795 2004 TY_{15}	15.5	X	284.15019	161.77899	276.12902	1.70224	0.0493382	0.18396880	3.0617749	20	10 15.3	19.7
223796 2004 TY_{18}	17.3	X	278.16763	297.37874	217.67247	22.51386	0.1287591	0.38491972	1.8716413	20	—	—
223797 2004 TM_{19}	15.1	X	177.59429	228.08641	44.59788	13.81973	0.1465065	0.20384966	2.8593197	20	—	—
223798 2004 TK_{27}	15.7	X	2.02897	197.66477	190.96707	9.60221	0.0689303	0.19195445	2.9762581	20	12 4.6	19.7
223799 2004 TN_{35}	16.6	X	61.97426	131.65910	282.58762	0.93262	0.0621375	0.20479483	2.8505154	20	—	—
223800 2004 TQ_{36}	15.6	X	123.12846	7.47224	204.22259	7.21706	0.1111738	0.18143256	3.0902425	20	9 24.5	20.4
223801 2004 TR_{38}	16.7	X	156.87638	263.57645	74.21347	1.53513	0.0747235	0.20987816	2.8043005	20	1 13.1	20.6
223802 2004 TW_{38}	16.3	X	223.20811	344.27134	196.66667	10.47503	0.0399258	0.19269196	2.9686590	20	12 9.1	20.6
223803 2004 TM_{40}	16.1	X	234.68466	45.29541	199.87737	7.94399	0.1680027	0.20943486	2.8082563	20	—	—
223804 2004 TA_{43}	16.0	X	174.30189	237.65624	289.28236	1.93707	0.0767156	0.17985504	3.1082860	20	9 21.7	20.7
223805 2004 TL_{48}	16.0	X	69.03591	315.53435	53.10327	2.79973	0.0999308	0.19804305	2.9149402	20	—	—
223806 2004 TA_{53}	16.4	X	44.33862	121.95101	324.48025	1.17108	0.0306537	0.20470130	2.8513836	20	1 2.3	20.0
223807 2004 TR_{53}	15.3	X	288.22346	12.25868	35.59148	10.19092	0.0568942	0.17814042	3.1281992	20	9 16.3	19.6
223808 2004 TF_{56}	15.7	X	229.49768	62.97796	217.02328	8.30949	0.1531304	0.21901176	2.7257818	20	1 13.9	20.2
223809 2004 TC_{61}	15.2	X	79.69353	2.76508	32.89188	13.03329	0.1864215	0.20603612	2.8390550	20	1 6.2	18.8
223810 2004 TM_{65}	15.6	X	37.48447	224.90791	102.91527	10.04350	0.1433624	0.18794873	3.0183976	20	11 18.1	19.7
223811 2004 TL_{72}	16.0	X	124.86557	253.18749	85.49846	1.66337	0.0698105	0.20465070	2.8518536	20	—	—
223812 2004 TN_{75}	15.5	X	324.81630	5.81926	39.29304	17.77466	0.1748814	0.18455266	3.0553140	20	10 28.4	18.6
223813 2004 TF_{86}	16.2	X	86.07924	349.74102	16.74250	1.94689	0.0799075	0.20295942	2.8676748	20	—	—
223814 2004 TR_{93}	16.4	X	62.21259	170.57176	270.21537	0.69380	0.0713385	0.20877455	2.8141744	20	1 21.6	20.0
223815 2004 TU_{94}	15.7	X	213.54205	117.85448	1.00419	0.77708	0.1991666	0.17702933	3.1412746	20	8 26.5	20.8
223816 2004 TQ_{97}	16.1	X	163.27002	183.50728	32.77985	11.36651	0.0547798	0.18841435	3.0134228	20	11 9.8	20.5
223817 2004 TP_{99}	16.0	X	176.01263	34.93499	149.44519	2.82591	0.0980700	0.18434922	3.0575614	20	10 16.2	20.8
223818 2004 TA_{103}	15.1	X	278.61992	159.56440	293.61537	9.54367	0.0630214	0.18251969	3.0779594	20	10 21.5	19.4
223819 2004 TD_{106}	15.7	X	80.55759	288.28963	127.75083	5.22914	0.0673735	0.21036650	2.7999589	20	1 14.9	19.2
223820 2004 TG_{106}	15.4	X	155.54184	194.16285	85.51683	3.40389	0.0855873	0.20192703	2.8774409	20	—	—
223821 2004 TX_{107}	16.0	X	57.41690	59.21304	32.68717	12.56980	0.1725301	0.20936524	2.8088788	20	2 15.1	19.4
223822 2004 TJ_{110}	15.1	X	244.33909	79.37091	37.23632	21.94098	0.1062424	0.18206893	3.0830376	20	10 11.6	19.6
223823 2004 TP_{111}	15.9	X	290.26881	255.03672	206.57514	9.57835	0.1544429	0.18770060	3.0210571	20	11 13.2	19.5
223824 2004 TA_{114}	15.5	X	347.13186	15.25309	41.69779	10.39384	0.0791300	0.18962477	3.0005855	20	12 17.4	19.4
223825 2004 TY_{115}	15.6	X	5.23357	345.02307	105.67239	7.44202	0.1643137	0.19846243	2.9108322	20	—	—
223826 2004 TS_{121}	16.0	X	130.59799	29.50424	341.92412	3.86104	0.0844041	0.21082731	2.7958775	20	1 26.0	19.9
223827 2004 TC_{122}	15.1	X	8.63852	293.72151	37.05870	17.02462	0.1147283	0.18280672	3.0747368	20	10 8.5	19.0
223828 2004 TJ_{122}	15.7	X	87.43009	311.46974	61.34797	2.95804	0.0714261	0.20341626	2.8633796	20	—	—
223829 2004 TR_{125}	16.4	X	102.53128	348.01230	9.73151	1.83452	0.0838957	0.20483644	2.8501294	20	—	—
223830 2004 TW_{125}	15.4	X	120.91943	295.92415	83.68667	7.09682	0.0619753	0.21148389	2.7900877	20	1 21.6	19.3
223831 2004 TG_{129}	15.7	X	15.86730	225.19109	161.81719	9.15631	0.0994874	0.19303378	2.9651535	20	12 24.8	19.7
223832 2004 TA_{136}	15.5	X	49.73047	356.76430	355.25362	10.57090	0.0667416	0.19271321	2.9684408	20	12 20.2	19.8
223833 2004 TP_{136}	15.1	X	196.56651	38.94094	227.32473	13.11070	0.0505176	0.20404047	2.8575368	20	—	—
223834 2004 TA_{141}	15.6	X	204.52144	67.45460	192.68316	8.78949	0.0913804	0.20699566	2.8302745	20	—	—
223835 2004 TP_{143}	16.5	X	96.86606	137.72610	254.90051	0.97137	0.0721564	0.20665041	2.8334259	20	1 8.8	20.3
223836 2004 TS_{143}	15.2	X	74.72854	91.53020	217.15768	9.25136	0.1101749	0.18993284	2.9973400	20	12 2.3	19.6
223837 2004 TO_{144}	15.4	X	356.02167	312.24069	37.08470	11.37616	0.1122904	0.18242973	3.0789713	20	10 9.8	19.1
223838 2004 TV_{144}	15.7	X	13.60265	346.95080	9.26329	3.82086	0.1956882	0.18632574	3.0359001	20	11 23.2	19.4
223839 2004 TC_{152}	15.9	X	239.27080	299.19216	205.23655	11.34513	0.0640715	0.18869493	3.0104348	20	11 10.3	20.1
223840 2004 TY_{155}	16.3	X	33.31900	139.70683	184.39454	5.70478	0.1400551	0.18729470	3.0254204	20	11 5.7	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223841 2004 TO_{162}	15.7	X	3.78961	348.63339	39.56619	10.40479	0.0502527	0.18868432	3.0105476	20	12 1.3	19.8
223842 2004 TR_{168}	15.9	X	155.54253	171.19098	177.66968	6.96255	0.0730886	0.21123583	2.7922716	20	1 23.1	20.0
223843 2004 TA_{173}	15.1	X	72.57552	68.88056	265.01511	9.76831	0.1216984	0.19267270	2.9688569	20	12 30.7	19.5
223844 2004 TH_{173}	15.1	X	322.02873	77.27191	312.96478	9.81197	0.0880649	0.18095257	3.0957048	20	9 30.3	19.1
223845 2004 TL_{174}	16.7	X	153.85785	130.76937	236.99532	1.14881	0.0932997	0.21583118	2.7524953	20	2 15.4	20.7
223846 2004 TW_{190}	16.5	X	99.02544	31.00442	34.59052	3.48806	0.0875949	0.21392671	2.7688072	20	2 24.7	20.1
223847 2004 TM_{191}	15.6	X	132.95463	312.68770	25.35210	8.90160	0.0842362	0.20656252	2.8342296	20	—	—
223848 2004 TA_{199}	16.8	X	5.06900	24.77530	51.25422	2.26154	0.1638252	0.19650166	2.9301638	20	—	—
223849 2004 TT_{202}	15.7	X	290.47282	66.18163	16.13145	3.75169	0.1508054	0.18253851	3.0777480	20	10 17.5	19.6
223850 2004 TN_{203}	15.5	X	187.79185	157.87161	35.34886	5.53009	0.1223334	0.18281770	3.0746136	20	11 4.4	20.4
223851 2004 TO_{203}	16.1	X	60.74362	44.81552	280.44503	1.04217	0.2338812	0.18963187	3.0005105	20	12 20.8	20.6
223852 2004 TH_{211}	15.8	X	120.08588	124.01468	244.71308	5.50469	0.0854844	0.20692097	2.8309555	20	1 9.5	19.8
223853 2004 TW_{219}	16.7	X	204.29944	110.35986	157.42876	2.40268	0.0147927	0.20484470	2.8500527	20	—	—
223854 2004 TL_{239}	15.9	X	80.68840	278.31185	31.55225	11.92235	0.0446716	0.18961081	3.0007328	20	11 30.0	20.3
223855 2004 TR_{241}	15.2	X	67.68142	40.68741	272.39747	10.55247	0.0755050	0.19047449	2.9916550	20	11 24.3	19.6
223856 2004 TS_{241}	15.3	X	58.67132	101.24317	259.19611	9.21502	0.0695951	0.19439699	2.9512751	20	—	—
223857 2004 TE_{242}	16.4	X	65.96466	314.29005	46.44341	2.64226	0.0870354	0.19593747	2.9357859	20	—	—
223858 2004 TK_{273}	15.8	X	102.59264	334.62698	325.22147	1.72415	0.1789732	0.19216237	2.9741109	20	12 24.6	20.7
223859 2004 TJ_{275}	16.4	X	339.10886	219.86465	193.33069	0.46547	0.1007012	0.18762814	3.0218349	20	12 2.3	20.0
223860 2004 TP_{278}	15.9	X	264.97608	209.29929	198.15885	4.71867	0.0044517	0.17330243	3.1861505	20	8 16.9	20.5
223861 2004 TU_{283}	16.4	X	75.48236	335.73850	27.71231	2.17102	0.0852523	0.20087268	2.8875009	20	—	—
223862 2004 TS_{285}	15.3	X	272.16143	110.60598	301.11850	7.99193	0.0641708	0.17496356	3.1659519	20	8 22.5	19.7
223863 2004 TU_{295}	15.4	X	46.77368	278.46352	43.19846	10.22691	0.0962286	0.18456060	3.0552263	20	11 11.6	19.6
223864 2004 TH_{296}	15.6	X	53.16700	139.45602	226.75188	8.54618	0.0851904	0.19264920	2.9690983	20	—	—
223865 2004 TE_{308}	15.2	X	264.49335	193.31245	274.86420	8.54103	0.0616634	0.18553215	3.0445511	20	10 23.6	19.5
223866 2004 TU_{308}	15.4	X	81.73448	36.14848	277.40061	9.13853	0.0077975	0.19275640	2.9679973	20	12 3.8	19.6
223867 2004 TQ_{322}	15.2	X	29.30531	62.29282	227.19601	8.31870	0.0774141	0.17477379	3.1682433	20	9 1.3	19.5
223868 2004 TQ_{327}	15.8	X	183.19532	177.73552	104.63153	5.80271	0.0780960	0.20854073	2.8162776	20	—	—
223869 2004 TJ_{336}	15.9	X	261.67968	51.55949	80.84420	1.49918	0.1873328	0.18425234	3.0586330	20	11 4.3	20.0
223870 2004 TX_{336}	15.9	X	274.27346	61.55241	52.32375	3.50293	0.2232506	0.18289808	3.0737128	20	10 23.8	19.8
223871 2004 TK_{343}	15.1	X	3.86904	277.44699	48.08836	11.32071	0.0729499	0.17920500	3.1157980	20	9 20.7	19.3
223872 2004 TX_{344}	15.2	X	30.26159	324.86856	46.63589	9.43882	0.0977367	0.18936583	3.0033202	20	12 23.0	19.3
223873 2004 TU_{345}	15.4	X	14.15503	138.25923	246.76794	10.10703	0.0676528	0.19043200	2.9921000	20	12 15.0	19.4
223874 2004 TG_{359}	15.4	X	121.71828	155.88594	66.06754	6.54977	0.0911194	0.17808611	3.1288352	20	10 7.8	20.2
223875 2004 TH_{366}	15.5	X	66.29213	230.00538	39.58717	5.45987	0.0502457	0.17859645	3.1228719	20	9 27.5	19.9
223876 2004 TT_{366}	16.5	X	355.53038	287.45023	117.72335	2.24740	0.1210698	0.18926846	3.0043502	20	12 19.6	20.0
223877 Kutler	15.7	X	15.23864	284.73703	54.02487	12.92554	0.3374321	0.18480254	3.0525592	20	11 25.4	19.2
223878 2004 UC_{2}	15.8	X	25.34581	324.70338	117.52232	7.11927	0.2195943	0.20210945	2.8757092	20	—	—
223879 2004 UL_{5}	16.3	X	266.37307	120.37883	58.50745	2.91493	0.0237825	0.19643132	2.9308632	20	—	—
223880 2004 UK_{8}	15.6	X	331.33598	49.26650	31.83678	10.47327	0.0320618	0.19087713	2.9874464	20	12 24.1	19.8
223881 2004 UB_{9}	15.7	X	42.28186	7.16902	33.57171	2.64322	0.0860511	0.19622057	2.9329615	20	—	—
223882 2004 UH_{10}	15.5	X	71.09476	350.79030	32.23756	9.91759	0.1096743	0.19766836	2.9186226	20	—	—
223883 2004 VC_{1}	15.1	X	6.23457	273.17387	98.44953	8.14069	0.1201761	0.18763615	3.0217490	20	11 24.4	18.9
223884 2004 VT_{4}	16.3	X	337.48354	79.68695	16.35158	11.66240	0.2542621	0.19130415	2.9829991	20	—	—
223885 2004 VL_{6}	15.4	X	346.88961	356.94247	58.92224	13.85490	0.1264874	0.18889250	3.0083353	20	12 18.9	19.0
223886 2004 VO_{9}	15.5	X	331.28174	357.53161	84.90147	9.24125	0.2661468	0.18892483	3.0079921	20	—	—
223887 2004 VY_{9}	15.8	X	357.62040	198.31414	160.58923	4.71162	0.2384707	0.18335459	3.0686088	20	11 5.5	19.0
223888 2004 VA_{14}	15.6	X	6.59372	191.43627	215.13771	8.99650	0.1227976	0.19021164	2.9944104	20	—	—
223889 2004 VS_{14}	15.8	X	200.78625	109.66893	278.46841	4.99139	0.0336428	0.22059808	2.7126988	20	4 30.1	19.8
223890 2004 VN_{16}	17.2	X	40.67472	355.45481	49.02019	24.56758	0.0150712	0.38641605	1.8668064	20	—	—
223891 2004 VN_{20}	15.3	X	318.31993	357.98501	57.49479	10.08101	0.1261911	0.18429396	3.0581725	20	11 2.1	18.9
223892 2004 VF_{22}	15.0	X	47.28385	248.33312	67.91598	11.34240	0.1563310	0.18330442	3.0691687	20	11 15.7	19.3
223893 2004 VB_{23}	14.9	X	3.21835	279.88910	69.18291	17.04820	0.1304216	0.17965397	3.1106048	20	10 26.2	18.9
223894 2004 VJ_{23}	15.3	X	312.34772	341.96578	76.01902	7.29446	0.1655035	0.18249254	3.0782647	20	10 24.1	18.8
223895 2004 VZ_{24}	15.1	X	18.15086	268.63417	49.21990	23.09787	0.2133980	0.18043538	3.1016175	20	10 21.5	18.9
223896 2004 VH_{26}	15.7	X	7.30443	92.74741	323.87061	3.32277	0.1429307	0.19261613	2.9694381	20	—	—
223897 2004 VL_{27}	15.2	X	307.25725	0.83629	26.80002	9.77717	0.0246405	0.17802712	3.1295262	20	9 18.5	19.5
223898 2004 VX_{27}	15.3	X	289.41344	112.20722	319.02968	4.68027	0.1434296	0.18019445	3.1043817	20	9 30.2	19.2
223899 2004 VO_{28}	15.3	X	62.01098	300.73546	55.67430	12.00249	0.0960366	0.19192198	2.9765938	20	—	—
223900 2004 VB_{32}	15.9	X	343.98615	292.48554	102.15702	3.74402	0.1856459	0.18545450	3.0454009	20	11 21.4	19.1
223901 2004 VM_{35}	16.4	X	33.71238	256.23183	106.91262	2.72065	0.1484967	0.19003195	2.9962977	20	12 24.9	20.5
223902 2004 VX_{35}	16.1	X	332.03030	141.43954	246.44997	2.23867	0.1518849	0.18251584	3.0780028	20	10 16.9	19.6
223903 2004 VU_{44}	15.7	X	243.14079	74.86095	72.82340	10.86194	0.0510000	0.18521586	3.0480162	20	11 20.2	19.9
223904 2004 VK_{56}	15.4	X	214.57081	103.31188	52.85120	9.67308	0.0543652	0.18057050	3.1000701	20	10 27.1	20.0
223905 2004 VH_{58}	15.4	X	151.86471	334.73534	263.27662	7.92869	0.0552364	0.18692740	3.0293822	20	11 24.2	20.0
223906 2004 VJ_{60}	15.1	X	221.71224	111.80652	53.67376	20.76061	0.2712688	0.17882182	3.1202475	20	10 26.7	20.4
223907 2004 VO_{60}	15.1	X	173.40728	100.31309	61.58491	10.05798	0.0582322	0.17440091	3.1727576	20	9 20.7	20.0
223908 2004 VQ_{60}	15.6	X	345.70693	9.50489	64.86493	3.28066	0.0718674	0.18991178	2.9975615	20	—	—
223909 2004 VJ_{64}	14.9	X	57.42772	234.65371	91.22232	20.14288	0.0824080	0.18662981	3.0326017	20	12 1.7	19.3
223910 2004 VN_{64}	15.1	X	316.10061	170.78608	228.32160	9.65290	0.0849756	0.17918601	3.1160181	20	10 5.3	19.2
223911 2004 VR_{65}	15.5	X	312.69538	203.12750	171.89620	4.53715	0.1285131	0.17730835	3.1379782	20	8 27.0	19.4
223912 2004 VF_{67}	16.0	X	161.51332	63.56202	230.38247	9.45525	0.0796216	0.19854533	2.9100220	20	—	—
223913 2004 VC_{73}	15.2	X	24.62441	318.29250	130.36753	9.33298	0.2234052	0.19917961	2.9038408	20	—	—
223914 2004 VH_{82}	14.9	X	338.60888	172.71207	263.59295	14.04729	0.2282366	0.18559158	3.0439011	20	—	—
223915 2004 VU_{90}	15.6	X	161.47151	117.94705	41.91846	2.11219	0.0982112	0.17452073	3.1713052	20	9 1.0	20.4
223916 2004 VA_{91}	16.3	X	47.76046	266.61723	171.13640	2.06391	0.0517572	0.20404006	2.8575407	20	—	—
223917 2004 VT_{91}	15.0	X	329.40723	339.26353	23.40239	16.40098	0.0844001	0.17650561	3.1474853	20	9 16.9	19.1
223918 2004 VU_{91}	15.5	X	31.04068	261.13246	101.06983	3.77331	0.0796608	0.18874564	3.0098956	20	12 10.6	19.5
223919 2004 VE_{94}	15.7	X	328.73646	317.10585	122.67048	3.24819	0.1950374	0.18826651	3.0150001	20	12 22.8	18.8
223920 2004 VB_{111}	16.2	X	173.84339	257.95394	44.59268	2.62559	0.0422931	0.20335545	2.8639505	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
223921 2004 WJ	16.2	X	343.00078	254.57804	145.94522	3.77964	0.2521434	0.18689718	3.0297088	20	12 3.3	19.0
223922 2004 WA_3	15.1	X	84.65079	185.39949	73.23096	11.25386	0.0600060	0.17910064	3.1170082	20	10 11.2	19.7
223923 2004 WL_3	15.2	X	264.60090	63.50706	60.39500	12.43746	0.0743257	0.18442530	3.0567204	20	11 14.3	19.4
223924 2004 WR_4	15.6	X	356.52011	52.66944	345.75299	2.79663	0.1088460	0.18576364	3.0420212	20	12 9.9	19.3
223925 2004 WS_4	15.0	X	294.48318	136.53615	260.93372	16.66052	0.1333353	0.17448840	3.1716969	20	8 18.9	19.6
223926 2004 WL_6	14.9	X	228.26729	191.83716	264.78009	9.66960	0.0831514	0.17387292	3.1791773	20	8 20.3	19.7
223927 2004 WP_8	15.8	X	309.01699	256.95110	220.15787	2.83990	0.1849016	0.18918971	3.0051838	20	—	—
223928 2004 WM_{10}	15.6	X	152.22316	130.50726	274.92479	11.14454	0.1735017	0.21609575	2.7502483	20	3 31.7	20.3
223929 2004 WP_{10}	15.5	X	310.18422	114.58094	25.47215	10.11425	0.2178197	0.19083959	2.9878381	20	—	—
223930 2004 XM_1	15.5	X	355.40586	40.07071	337.84836	9.38465	0.1191801	0.18402677	3.0611319	20	11 9.2	19.4
223931 2004 XH_2	15.3	X	354.41020	26.90305	339.17498	5.77278	0.1791902	0.18288250	3.0738874	20	10 29.2	18.7
223932 2004 XD_5	15.1	X	14.73023	341.61488	61.31658	11.91295	0.0661319	0.18921905	3.0048732	20	—	—
223933 2004 XJ_5	14.5	X	349.51083	248.49912	60.91106	22.62699	0.0776455	0.16896590	3.2404352	20	8 8.8	19.1
223934 2004 XL_5	15.9	X	318.41533	95.55330	312.62128	3.59093	0.1614448	0.18135165	3.0911616	20	10 17.2	19.5
223935 2004 XV_6	15.3	X	306.87665	171.53777	279.90865	8.59877	0.1815575	0.18448842	3.0560231	20	11 22.8	18.8
223936 2004 XT_7	15.1	X	316.07776	343.13173	74.86960	10.47334	0.0889296	0.18088334	3.0964947	20	11 4.1	19.1
223937 2004 XM_{10}	15.0	X	42.18686	299.68885	83.61816	11.53076	0.0748902	0.19106012	2.9855385	20	—	—
223938 2004 XV_{13}	14.5	X	275.37952	332.28045	76.24157	18.30033	0.2055205	0.17077548	3.2175036	20	8 7.7	19.2
223939 2004 XG_{18}	15.7	X	308.23981	312.83048	92.19644	3.16210	0.1366455	0.17863893	3.1223768	20	9 30.4	19.4
223940 2004 XX_{21}	15.2	X	240.73428	185.98096	282.12672	3.99147	0.1751581	0.17450807	3.1714585	20	9 8.9	19.9
223941 2004 XJ_{24}	15.5	X	23.65490	280.51085	90.28336	2.94817	0.1051849	0.18732099	3.0251373	20	12 14.5	19.5
223942 2004 XG_{26}	15.2	X	298.82415	335.96673	63.35343	6.13879	0.1471615	0.17288806	3.1912394	20	9 6.9	19.3
223943 2004 XW_{26}	15.3	X	225.73850	53.06419	94.90938	6.70806	0.0958115	0.17893366	3.1189472	20	10 25.7	19.9
223944 2004 XE_{27}	14.7	X	296.47716	311.84439	64.51719	11.21319	0.0938963	0.16871481	3.2436495	20	8 11.8	19.2
223945 2004 XQ_{31}	15.5	X	263.86443	177.94576	293.64703	4.45430	0.1255194	0.17623610	3.1506933	20	10 17.2	20.0
223946 2004 XX_{33}	15.1	X	357.75145	159.34955	255.65959	14.94192	0.1145246	0.18784963	3.0194592	20	—	—
223947 2004 XB_{34}	15.4	X	346.33414	138.89849	253.93601	8.02615	0.0705047	0.18198090	3.0840318	20	11 13.6	19.4
223948 2004 XC_{34}	15.9	X	176.68371	112.74145	112.67500	2.14611	0.0170598	0.18467657	3.0539472	20	12 8.5	20.1
223949 2004 XG_{34}	15.7	X	327.55127	72.83835	9.72912	3.88916	0.1643492	0.18594908	3.0399985	20	12 22.3	19.0
223950 Mississauga	15.2	X	226.47736	191.57950	259.90721	8.85143	0.0562580	0.16926627	3.2366006	20	8 15.1	20.1
223951 2004 XG_{38}	15.3	X	340.54079	302.81934	137.97457	15.17034	0.1756556	0.18957158	3.0011467	20	—	—
223952 2004 XC_{49}	15.0	X	337.76424	314.60388	71.28457	12.28563	0.1967155	0.17859096	3.1229359	20	10 29.8	18.3
223953 2004 XC_{52}	15.1	X	283.95504	188.53037	233.16075	12.48796	0.0524976	0.17518329	3.1633040	20	9 18.9	19.6
223954 2004 XK_{71}	16.3	X	357.81158	335.11804	71.40985	4.02191	0.0526347	0.19019128	2.9946241	20	12 18.0	20.1
223955 2004 XL_{73}	15.3	X	267.48962	30.19164	99.28859	4.57187	0.1272255	0.18348709	3.0671313	20	11 17.6	19.3
223956 2004 XC_{74}	15.0	X	359.39112	132.20740	263.32071	14.01130	0.0461128	0.18442222	3.0567544	20	12 4.6	19.2
223957 2004 XO_{74}	14.3	X	300.89622	333.73917	106.42943	33.96312	0.2973037	0.17916546	3.1162564	20	10 31.3	18.4
223958 2004 XV_{76}	15.2	X	265.69162	75.01378	59.94953	7.11204	0.0617324	0.18541127	3.0458742	20	11 30.0	19.2
223959 2004 XE_{77}	15.0	X	7.59037	114.71800	234.61763	9.14151	0.0466050	0.17996746	3.1069914	20	10 16.6	19.3
223960 2004 XO_{79}	15.5	X	114.36861	350.60327	98.78285	6.15026	0.0357980	0.21299981	2.7768339	20	4 8.8	19.4
223961 2004 XG_{82}	15.6	X	237.30526	295.65628	192.09711	2.98394	0.1353542	0.17716733	3.1396432	20	10 6.2	20.3
223962 2004 XN_{83}	15.9	X	12.25867	58.34580	346.13259	1.21286	0.1227079	0.18736874	3.0246233	20	—	—
223963 2004 XD_{87}	15.9	X	314.15103	256.12343	145.95132	2.87595	0.1525130	0.18019297	3.1043987	20	10 4.7	19.5
223964 2004 XH_{93}	15.9	X	4.58154	25.83467	14.45184	1.26745	0.0850478	0.18489888	3.0514987	20	12 21.5	19.8
223965 2004 XY_{102}	14.7	X	312.06191	309.63076	67.46419	15.18945	0.2154562	0.17123373	3.2117607	20	8 25.4	18.7
223966 2004 XR_{108}	16.1	X	275.12414	73.37353	34.60022	5.85151	0.2477700	0.17877321	3.1208131	20	10 13.2	20.1
223967 2004 XF_{110}	15.2	X	297.41649	138.94664	302.66853	8.15620	0.1152926	0.18102319	3.0948997	20	10 27.9	19.3
223968 2004 XQ_{122}	15.5	X	234.87414	333.50413	125.01838	2.23867	0.1884250	0.17178272	3.2049141	20	8 22.7	20.4
223969 2004 XS_{125}	15.4	X	300.68030	58.93713	356.33804	13.98539	0.2208783	0.17548741	3.1596482	20	9 18.0	18.8
223970 2004 XR_{127}	15.4	X	17.22217	120.75817	243.42627	7.52294	0.1029252	0.18260818	3.0769651	20	11 25.9	19.5
223971 2004 XB_{129}	15.0	X	76.59554	337.24841	34.87894	10.30365	0.3051890	0.19496268	2.9455635	20	—	—
223972 2004 XF_{142}	15.0	X	221.68092	165.17952	61.85232	13.00918	0.0443987	0.19214427	2.9742977	20	—	—
223973 2004 XN_{165}	15.0	X	164.12656	275.92488	255.18535	8.29485	0.0405142	0.17496956	3.1658795	20	9 12.5	19.8
223974 2004 XF_{174}	16.0	X	295.82481	59.68627	10.14673	4.56820	0.1236018	0.17656786	3.1467454	20	10 11.7	19.9
223975 2004 XL_{179}	16.0	X	272.24910	279.27132	144.03354	1.73030	0.1732075	0.17382549	3.1797557	20	8 23.4	20.3
223976 2004 XS_{181}	15.0	X	355.26287	63.69855	341.52215	9.75188	0.0734542	0.18703466	3.0282239	20	12 13.4	19.1
223977 2004 YP_3	17.3	X	63.09500	278.93648	82.04841	23.15613	0.1161718	0.38389418	1.8749730	20	—	—
223978 2004 YA_{10}	15.9	X	243.89771	1.93896	73.42596	2.38453	0.0731574	0.17249484	3.1960874	20	8 18.6	20.6
223979 2004 YR_{14}	16.1	X	299.15066	99.38626	10.05338	1.11552	0.1598192	0.18087916	3.0965424	20	12 4.3	19.7
223980 2004 YM_{25}	14.6	X	274.18933	327.78705	122.64777	17.68101	0.1614413	0.17407538	3.1767118	20	10 8.6	19.2
223981 2004 YM_{32}	16.4	X	211.69272	165.54092	338.51544	18.14561	0.0680186	0.35970230	1.9581257	20	10 28.2	18.9
223982 2005 AC_1	14.9	X	291.32627	181.74454	295.33570	10.71564	0.1649815	0.18003937	3.1061641	20	11 29.3	18.7
223983 2005 AV_{15}	15.3	X	313.64103	335.96925	130.40958	6.78965	0.2338981	0.18364694	3.0653513	20	12 24.5	18.3
223984 2005 AE_{17}	14.7	X	323.26344	256.70037	119.15914	15.94463	0.2466082	0.17325486	3.1867336	20	9 10.3	18.1
223985 2005 AO_{34}	14.6	X	251.33506	214.74138	264.46634	16.78564	0.0595457	0.17757105	3.1348826	20	10 17.2	19.4
223986 2005 AZ_{39}	15.0	X	322.52745	342.80391	63.39281	17.79064	0.2386583	0.17869631	3.1217084	20	10 26.2	18.2
223987 2005 BE_1	16.4	X	43.17023	293.88601	3.91451	20.70184	0.0502227	0.35871853	1.9617041	20	10 27.2	18.8
223988 2005 BX_1	15.2	X	315.51158	259.12780	129.20106	9.85651	0.0674183	0.17410176	3.1763909	20	9 27.1	19.5
223989 2005 BS_{29}	15.6	X	282.59885	60.38533	50.65666	12.75036	0.1187793	0.17799055	3.1299550	20	11 14.4	19.7
223990 2005 CH_{24}	14.9	X	255.02168	153.74742	304.12461	9.45942	0.1723180	0.17684843	3.1434164	20	9 10.7	19.5
223991 2005 CT_{48}	15.2	X	267.20569	5.74632	139.88546	6.18691	0.1166095	0.17689975	3.1428084	20	12 6.8	19.5
223992 2005 EO_{31}	14.6	X	326.74335	84.54543	100.47469	4.27832	0.1288266	0.12650084	3.9301318	20	1 24.4	19.7
223993 2005 EC_{70}	17.4	X	249.95987	94.87863	23.43471	20.72234	0.0944370	0.36049776	1.9552442	20	11 18.8	19.3
223994 2005 EA_{89}	17.7	X	179.89914	81.52106	192.83977	6.67417	0.2031461	0.30555020	2.1831371	20	—	—
223995 2005 EM_{140}	15.2	X	353.35080	172.19967	301.84206	7.21999	0.2656877	0.18765287	3.0215695	20	—	—
223996 2005 ER_{224}	16.5	X	309.03144	287.31181	84.04804	24.01283	0.1109200	0.35026992	1.9931233	20	10 9.9	18.9
223997 2005 EQ_{265}	17.4	X	164.94207	72.17896	193.40692	3.89641	0.2283434	0.29991647	2.2103914	20	—	—
223998 2005 EN_{324}	17.5	X	216.53268	248.90922	20.17164	3.84071	0.1775227	0.30718997	2.1753611	20	—	—
223999 2005 FS_5	17.3	X	164.21362	161.73932	94.22035	2.99510	0.2018551	0.29784296	2.2206383	20	—	—
224000 2005 GX_8	16.2	X	153.47112	263.56893	32.71648	23.39524	0.2665124	0.30053858	2.2073400	20	—	—