Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196001 2002 RX_{238}	15.6	X	105.91831	207.79938	230.25080	4.19299	0.2201479	0.18340025	3.0680995	21	3 30.7	20.1
196002 2002 RU_{239}	15.1	X	324.89578	16.07021	153.04300	11.32832	0.0628508	0.18002442	3.1063361	21	—	—
196003 2002 RJ_{240}	15.2	X	171.23452	350.47338	323.98433	8.85537	0.0725374	0.17822248	3.1272389	21	—	—
196004 2002 RN_{241}	15.9	X	209.90939	253.24092	12.24672	3.28950	0.1486623	0.17900302	3.1181414	21	—	—
196005 Róbertschiller	15.4	X	87.70245	211.39022	173.22352	5.94875	0.1057267	0.17200052	3.2022080	21	—	—
196006 2002 RJ_{242}	15.5	X	297.09652	226.25880	321.31368	10.13360	0.1019170	0.17859564	3.1228813	21	—	—
196007 2002 RT_{242}	15.6	X	188.69225	115.98900	184.33217	9.70292	0.0613445	0.17969071	3.1101808	21	—	—
196008 2002 RV_{242}	15.0	X	97.50154	42.22525	317.39448	8.57934	0.0909151	0.17390027	3.1788439	21	—	—
196009 2002 RF_{248}	15.7	X	132.41575	124.33789	228.83135	8.39432	0.0858257	0.17698779	3.1417661	21	1 2.1	20.3
196010 2002 RP_{248}	16.0	X	96.85655	248.36166	140.50620	2.70862	0.1055412	0.17687684	3.1430797	21	1 5.6	20.3
196011 2002 RR_{250}	15.6	X	146.81635	52.81797	283.24975	7.96715	0.1000052	0.17905398	3.1175497	21	—	—
196012 2002 RY_{250}	15.5	X	213.07947	260.16693	16.10178	10.75507	0.0582927	0.18049295	3.1009581	21	—	—
196013 2002 RN_{254}	16.1	X	343.90946	347.88877	279.83565	1.21181	0.0152867	0.19609666	2.9341969	21	5 23.7	20.1
196014 2002 RV_{258}	17.6	X	198.06735	91.55025	324.09122	2.02726	0.0417471	0.24704872	2.5154420	21	5 23.4	21.1
196015 2002 RD_{263}	15.4	X	197.62706	47.23985	198.75884	10.16230	0.0199324	0.17141916	3.2094440	21	—	—
196016 2002 RE_{263}	15.0	X	72.90530	246.14552	220.72771	8.48082	0.0886469	0.18267256	3.0762420	21	3 3.7	19.2
196017 2002 RH_{273}	15.9	X	148.35831	317.63078	350.15072	4.98989	0.1049800	0.17483116	3.1675500	21	—	—
196018 2002 RP_{279}	16.5	X	248.15160	198.33220	151.44036	1.39782	0.0387648	0.19475572	2.9476499	21	5 2.9	20.7
196019 2002 SM_{1}	14.9	X	113.80044	141.20030	243.37661	8.39866	0.0593919	0.17980797	3.1088285	21	1 12.9	19.4
196020 2002 SC_{2}	15.5	X	183.75489	114.29153	179.63592	6.59785	0.1219593	0.17559811	3.1583202	21	—	—
196021 2002 ST_{2}	16.0	X	156.30877	234.08334	262.49971	17.94152	0.0778474	0.35710674	1.9676024	21	7 19.9	18.6
196022 2002 SQ_{5}	15.4	X	189.98958	164.17360	174.88073	8.52213	0.1267438	0.18185284	3.0854795	21	2 14.5	20.5
196023 2002 SW_{6}	15.9	X	58.68240	154.22514	108.80977	3.19902	0.0129278	0.20275549	2.8695974	21	8 28.4	19.7
196024 2002 SB_{7}	15.2	X	69.41666	40.06516	20.44053	9.11317	0.0729130	0.17424364	3.1746664	21	1 5.3	19.6
196025 2002 SP_{9}	15.7	X	120.30003	253.85321	166.33654	2.32024	0.0810626	0.18138323	3.0908027	21	3 8.7	20.0
196026 2002 SL_{13}	14.7	X	103.54287	57.46733	0.54146	15.75557	0.0662289	0.18053810	3.1004409	21	2 17.5	19.1
196027 2002 SB_{14}	15.4	X	152.18973	227.67207	65.11229	1.98297	0.1589563	0.17163128	3.2067991	21	—	—
196028 2002 SF_{14}	15.9	X	200.12162	270.74700	46.44050	2.34299	0.1919939	0.18184289	3.0855920	21	2 1.4	21.1
196029 2002 SL_{14}	15.6	X	166.45221	107.81493	227.93349	1.42203	0.1005264	0.17826786	3.1267081	21	1 19.6	20.3
196030 2002 SJ_{20}	15.0	X	153.51761	290.09196	9.18069	11.68629	0.1748851	0.17240296	3.1972228	21	—	—
196031 2002 SV_{20}	15.8	X	141.20137	334.40733	50.62940	1.95300	0.1854199	0.18070059	3.0985821	21	3 1.6	20.6
196032 2002 SH_{21}	15.2	X	148.19651	346.94255	14.48542	9.80508	0.0563864	0.17856485	3.1232403	21	1 29.9	19.9
196033 2002 SU_{21}	15.4	X	98.71116	243.35379	108.89999	2.37033	0.1581993	0.17025363	3.2240749	21	—	—
196034 2002 SV_{25}	14.8	X	122.78396	290.31857	37.84169	11.48601	0.1043964	0.17005712	3.2265582	21	—	—
196035 Haraldbill	15.0	X	61.21767	261.79901	209.72271	25.01564	0.2833124	0.17460682	3.1702627	21	3 20.5	18.8
196036 2002 SL_{40}	15.3	X	49.23856	73.87609	12.20140	25.78881	0.2710376	0.17264960	3.1941772	21	2 6.4	19.1
196037 2002 SX_{42}	15.5	X	135.07497	314.05302	32.05704	10.64184	0.1749818	0.17483926	3.1674523	21	1 10.2	20.4
196038 2002 SM_{43}	15.2	X	86.16134	356.83338	356.79505	3.64661	0.1042173	0.16764928	3.2573787	21	—	—
196039 2002 SS_{44}	15.0	X	72.06098	29.93437	20.05840	14.00974	0.1389948	0.17215160	3.2003343	21	1 4.4	19.3
196040 2002 SC_{45}	15.0	X	78.18872	20.04611	31.86654	8.96993	0.0661552	0.17349117	3.1838392	21	1 5.9	19.4
196041 2002 SO_{48}	14.6	X	11.34838	73.58197	27.26070	15.17342	0.0732438	0.17140132	3.2096668	21	—	—
196042 2002 SD_{49}	15.3	X	124.05782	267.97744	97.13764	4.75428	0.1709652	0.17502818	3.1651726	21	1 19.3	19.9
196043 2002 ST_{49}	15.2	X	55.34910	94.89399	0.84035	6.39076	0.1380293	0.17699685	3.1416589	21	2 3.7	19.1
196044 2002 SU_{50}	15.3	X	116.41529	245.91108	167.82455	4.37273	0.1592314	0.18033594	3.1027576	21	3 6.7	19.9
196045 2002 SN_{53}	14.6	X	96.17716	98.57356	346.59456	15.72989	0.2005251	0.17780777	3.1320995	21	3 23.9	19.1
196046 2002 SE_{56}	15.3	X	120.04616	237.92025	128.17993	5.85621	0.1673818	0.17438568	3.1729423	21	1 15.2	20.0
196047 2002 SS_{57}	15.0	X	86.14932	41.11656	36.35112	16.09338	0.2325885	0.17789926	3.1310256	21	3 17.6	19.4
196048 2002 SM_{60}	15.0	X	143.22565	281.68438	27.62391	12.25185	0.0857887	0.17301660	3.1896586	21	—	—
196049 2002 SS_{61}	14.8	X	68.76014	56.36495	329.31364	12.21505	0.0883123	0.17173129	3.2055540	21	—	—
196050 2002 SG_{63}	15.5	X	100.89757	296.17530	37.53687	4.52285	0.0918730	0.17036235	3.2227031	21	—	—
196051 2002 SW_{65}	15.3	X	223.02686	267.47427	20.17885	9.45047	0.1205742	0.18313960	3.0710099	21	1 19.9	20.3
196052 2002 SB_{66}	15.6	X	235.25523	276.16829	52.22873	5.20237	0.0769776	0.18990259	2.9976583	21	3 21.5	20.1
196053 2002 SE_{68}	16.1	X	68.43711	302.04219	128.01457	0.57967	0.0754919	0.17636187	3.1491952	21	1 14.2	20.3
196054 2002 TK	15.0	X	76.49142	281.76791	4.13556	8.45107	0.1104201	0.15945174	3.3680863	21	10 24.3	19.9
196055 2002 TC_{1}	15.5	X	118.64347	319.93736	35.25183	5.14000	0.1520326	0.17389860	3.1788644	21	—	—
196056 2002 TK_{2}	15.3	X	94.68781	171.11576	201.81002	10.36869	0.1652490	0.17126797	3.2113325	21	—	—
196057 2002 TN_{12}	15.5	X	122.29402	204.87801	149.18860	5.82232	0.1277725	0.17389644	3.1788907	21	—	—
196058 2002 TU_{15}	15.0	X	46.83001	196.15313	193.80369	4.42931	0.0345694	0.16852583	3.2460739	21	—	—
196059 2002 TT_{16}	15.2	X	48.67966	272.73818	191.37477	15.55244	0.0747756	0.17800822	3.1297479	21	1 24.7	19.6
196060 2002 TD_{20}	14.9	X	27.33277	119.47014	10.27949	16.26801	0.2192300	0.17534380	3.1613733	21	2 6.1	18.4
196061 2002 TC_{26}	15.1	X	96.74561	299.72523	112.30299	3.84251	0.1870711	0.17502127	3.1652559	21	2 15.2	19.3
196062 2002 TN_{33}	14.8	X	130.85500	197.53286	194.90646	15.23056	0.1486864	0.18001174	3.1064819	21	2 20.3	19.7
196063 2002 TD_{34}	15.3	X	51.83112	32.83086	354.73927	4.94909	0.0941530	0.16735974	3.2611345	21	—	—
196064 2002 TG_{34}	14.9	X	312.47768	139.88490	17.05794	7.66220	0.0410437	0.17131342	3.2107646	21	—	—
196065 2002 TK_{38}	14.9	X	67.33476	205.46263	220.23656	4.88523	0.1499269	0.17125917	3.2114426	21	1 15.5	19.0
196066 2002 TH_{45}	14.8	X	161.71379	265.64613	7.17507	18.33313	0.1520986	0.17094501	3.2153760	21	—	—
196067 2002 TF_{55}	15.1	X	207.28135	286.65481	26.38029	10.33169	0.0897483	0.18202970	3.0834806	21	2 5.4	20.0
196068 2002 TW_{55}	18.0	X	61.32971	251.12705	33.57028	59.37246	0.6647912	0.31999323	2.1169415	21	11 12.2	23.2
196069 2002 TY_{62}	14.6	X	26.72033	128.60363	352.98507	8.16339	0.2201294	0.17332644	3.1858563	21	1 20.2	17.9
196070 2002 TA_{65}	14.7	X	189.56032	118.99046	243.58763	12.99227	0.1148105	0.18678864	3.0308823	21	3 8.3	19.7
196071 2002 TE_{65}	15.6	X	79.43041	241.72843	209.14565	11.35871	0.2252462	0.17689804	3.1428286	21	3 13.8	19.8
196072 2002 TE_{69}	14.8	X	124.02074	84.24557	225.76890	24.65187	0.2932700	0.17245192	3.1966176	21	—	—
196073 2002 TQ_{74}	15.2	X	158.98418	275.95412	87.12533	5.44292	0.1069756	0.18090332	3.0962666	21	2 15.2	19.9
196074 2002 TT_{74}	14.9	X	131.56084	291.72293	28.64741	15.67264	0.1348025	0.17129309	3.2110185	21	—	—
196075 2002 TD_{76}	15.1	X	139.68891	160.54489	218.71390	8.92640	0.0739435	0.17853463	3.1235928	21	2 6.1	19.8
196076 2002 TL_{77}	15.2	X	84.65887	188.74593	225.28022	5.20554	0.1348888	0.17417518	3.1754981	21	1 23.2	19.5
196077 2002 TT_{79}	14.5	X	117.96485	290.49382	46.80682	26.58602	0.2504916	0.16990818	3.2284435	21	—	—
196078 2002 TH_{80}	14.7	X	27.60444	252.20219	208.48247	12.62968	0.1190660	0.17258044	3.1950304	21	—	—
196079 2002 TN_{81}	15.1	X	168.38765	285.70531	91.93587	7.31315	0.1351422	0.18574814	3.0421905	21	3 16.4	20.0
196080 2002 TX_{83}	14.9	X	77.08243	38.32072	45.40812	14.84889	0.2746483	0.17554943	3.1589040	21	3 19.8	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196081 2002 TO_{84}	15.0	X	100.86920	166.78465	120.77902	2.57649	0.2206534	0.16272418	3.3227780	21	12 3.1	20.3
196082 2002 TB_{86}	15.3	X	45.66089	211.29473	221.69458	5.26730	0.1524556	0.17165006	3.2065652	21	—	—
196083 2002 TH_{87}	15.5	X	41.47270	174.22137	235.47869	0.68322	0.1399132	0.16819793	3.2502913	21	—	—
196084 2002 TH_{88}	14.9	X	223.45965	61.03509	241.19775	8.35451	0.0302811	0.17983122	3.1085605	21	2 3.8	19.6
196085 2002 TU_{88}	15.0	X	140.72127	61.31257	251.43845	7.14993	0.1358215	0.17021672	3.2245411	21	—	—
196086 2002 TD_{90}	15.0	X	100.45901	177.34603	231.76643	11.49980	0.1129605	0.17571982	3.1568617	21	1 31.8	19.6
196087 2002 TU_{96}	15.5	X	135.68823	211.94613	168.13946	6.47055	0.0922835	0.17912614	3.1167124	21	2 6.8	20.0
196088 2002 TR_{99}	15.1	X	79.68118	110.44548	319.82144	9.68144	0.1168255	0.17878119	3.1207203	21	2 3.8	19.2
196089 2002 TB_{102}	15.3	X	181.75038	78.52048	224.07229	4.31975	0.0989971	0.17543792	3.1602425	21	—	—
196090 2002 TS_{102}	15.0	X	117.88621	203.90449	211.78582	8.37813	0.0977613	0.18033561	3.1027615	21	2 28.0	19.5
196091 2002 TG_{103}	15.3	X	72.87987	233.28101	215.01441	11.96657	0.1552968	0.17681917	3.1437631	21	2 17.2	19.5
196092 2002 TH_{113}	14.8	X	43.08523	166.30679	253.10635	10.54407	0.0483154	0.17085678	3.2164828	21	—	—
196093 2002 TW_{113}	14.8	X	195.84205	6.72813	273.35516	9.97583	0.2244390	0.17617560	3.1514146	21	—	—
196094 2002 TT_{117}	15.0	X	44.68226	273.69042	242.19175	12.63929	0.1183238	0.18299884	3.0725845	21	3 25.9	19.1
196095 2002 TR_{119}	14.6	X	246.34800	31.14167	254.82620	8.23406	0.0468683	0.18064146	3.0992581	21	2 8.7	19.3
196096 2002 TK_{120}	14.9	X	41.51642	209.63821	244.99327	10.12333	0.1211102	0.17271186	3.1934095	21	1 7.4	18.8
196097 2002 TP_{123}	15.1	X	143.38648	145.50378	221.67318	11.46236	0.0758517	0.17920200	3.1158328	21	1 26.5	19.9
196098 2002 TW_{123}	14.9	X	205.17045	14.04315	284.78471	9.89563	0.1731428	0.17995297	3.1071583	21	1 14.6	20.1
196099 2002 TE_{125}	15.3	X	185.92023	84.13132	254.13728	9.49943	0.0479391	0.18107655	3.0942916	21	2 4.8	20.1
196100 2002 TZ_{126}	14.8	X	161.73046	199.42389	92.56053	6.46171	0.1246857	0.17287849	3.1913572	21	—	—
196101 2002 TD_{127}	14.9	X	53.02196	124.28951	287.75343	8.20046	0.1166694	0.17109592	3.2134850	21	—	—
196102 2002 TA_{133}	15.2	X	57.05859	236.72404	167.27150	9.89395	0.1322367	0.16921969	3.2371944	21	—	—
196103 2002 TX_{133}	14.5	X	81.41088	283.67717	0.14341	13.06011	0.0715509	0.15771139	3.3928189	21	10 20.5	19.5
196104 2002 TC_{134}	14.3	X	76.88017	142.94863	241.90560	8.84666	0.1243976	0.17077951	3.2174529	21	—	—
196105 2002 TC_{137}	14.7	X	153.55747	107.15035	229.62387	14.69213	0.1005345	0.17480068	3.1679182	21	1 6.1	19.7
196106 2002 TV_{142}	15.1	X	63.14401	287.71637	119.52237	5.99184	0.1359639	0.17080585	3.2171222	21	—	—
196107 2002 TH_{145}	15.8	X	92.84061	264.04878	164.43499	0.78460	0.1097699	0.17878924	3.1206265	21	2 17.6	19.9
196108 2002 TX_{147}	14.6	X	28.11486	138.10076	293.01282	12.88045	0.1260425	0.17267682	3.1938414	21	—	—
196109 2002 TS_{148}	15.1	X	96.49594	228.99786	210.02496	16.46898	0.0255056	0.18487098	3.0518057	21	2 17.5	19.6
196110 2002 TB_{157}	15.4	X	235.25767	279.98168	104.59399	10.26334	0.1635600	0.19297224	2.9657838	21	5 22.7	20.2
196111 2002 TM_{168}	14.6	X	214.95751	232.68680	13.72505	27.42299	0.2358804	0.17533936	3.1614266	21	—	—
196112 2002 TH_{169}	14.4	X	60.35941	116.24050	281.78042	11.66814	0.1879158	0.16995297	3.2278762	21	—	—
196113 2002 TY_{169}	14.4	X	125.54421	107.52645	255.02433	11.41037	0.0810851	0.17513598	3.1638737	21	1 4.8	19.0
196114 2002 TD_{170}	14.9	X	30.47384	115.75159	343.26534	20.94690	0.3271050	0.16958986	3.2324821	21	—	—
196115 2002 TN_{170}	15.1	X	228.14052	145.71362	272.94966	10.71203	0.0379565	0.19725749	2.9226741	21	7 5.5	19.1
196116 2002 TY_{170}	14.7	X	170.97644	71.36985	257.50202	11.94741	0.1112929	0.17724193	3.1387621	21	1 15.1	19.7
196117 2002 TE_{173}	15.1	X	149.12492	312.31299	28.05465	17.87572	0.1630783	0.17675106	3.1445707	21	1 18.2	20.3
196118 2002 TY_{173}	15.2	X	158.72572	249.99444	117.90929	7.66027	0.1417672	0.18091981	3.0960785	21	2 23.1	20.1
196119 2002 TO_{174}	14.5	X	135.49642	354.84823	53.25598	10.38655	0.0856150	0.18220890	3.0814585	21	3 17.0	19.2
196120 2002 TA_{178}	14.5	X	71.60094	203.26187	261.84023	16.65213	0.2394268	0.17577398	3.1562132	21	3 16.8	18.9
196121 2002 TW_{185}	14.6	X	67.33657	194.42643	215.03030	12.31956	0.1694673	0.17248553	3.1962024	21	—	—
196122 2002 TL_{193}	15.2	X	25.49992	59.62095	0.76498	13.64847	0.0676319	0.16877188	3.2429182	21	—	—
196123 2002 TN_{193}	15.0	X	107.56212	4.65912	3.06838	7.61261	0.0674560	0.17349629	3.1837767	21	—	—
196124 2002 TU_{194}	15.0	X	33.48682	116.44610	11.73813	10.21527	0.0363604	0.17940462	3.1134864	21	2 7.9	19.3
196125 2002 TM_{202}	15.0	X	241.56315	245.88261	50.51265	9.78195	0.1221608	0.18451820	3.0556943	21	2 17.8	19.9
196126 2002 TE_{206}	15.4	X	120.16436	111.53637	255.46074	3.10155	0.1555652	0.17351774	3.1835142	21	1 14.8	20.1
196127 2002 TP_{206}	14.8	X	114.82361	150.23624	234.28121	10.47872	0.1142107	0.17434299	3.1734602	21	1 21.3	19.5
196128 2002 TQ_{206}	14.7	X	98.21018	147.56414	220.67188	22.32383	0.1344784	0.17016357	3.2252124	21	—	—
196129 2002 TT_{210}	15.0	X	24.50706	64.01609	39.18295	6.83252	0.1045055	0.17092326	3.2156487	21	—	—
196130 2002 TK_{213}	15.4	X	72.87801	232.55891	197.23531	9.22597	0.1593552	0.17447679	3.1718376	21	1 28.0	19.5
196131 2002 TE_{225}	14.9	X	115.65981	159.31940	229.15871	9.74615	0.0789629	0.17502959	3.1651556	21	1 22.2	19.6
196132 2002 TG_{231}	14.7	X	111.92234	254.28304	147.08155	16.65589	0.1569899	0.17886447	3.1197515	21	2 14.8	19.2
196133 2002 TO_{238}	15.1	X	184.18931	275.70149	31.07479	12.73090	0.0833076	0.17409554	3.1764665	21	1 4.8	20.2
196134 2002 TH_{240}	15.1	X	77.80569	40.49524	32.42416	9.48983	0.0770562	0.17500363	3.1654687	21	2 3.4	19.5
196135 2002 TZ_{244}	14.9	X	71.46162	208.87556	194.49048	9.59477	0.0744048	0.17060998	3.2195840	21	—	—
196136 2002 TW_{247}	15.2	X	56.52444	212.70836	187.36691	3.38006	0.0535053	0.16924686	3.2368480	21	—	—
196137 2002 TR_{248}	15.1	X	80.47715	109.86717	284.05533	16.94214	0.1499082	0.17213036	3.2005976	21	—	—
196138 2002 TX_{253}	14.5	X	40.89910	107.22788	5.29936	24.21916	0.1684453	0.17460582	3.1702748	21	2 13.6	18.5
196139 2002 TW_{261}	15.8	X	253.91954	288.86222	95.27133	3.27964	0.1177617	0.19549505	2.9402135	21	6 12.9	20.2
196140 2002 TO_{264}	15.3	X	58.53528	87.46270	321.93894	2.27299	0.1328761	0.16932088	3.2359046	21	—	—
196141 2002 TL_{268}	15.0	X	75.18787	62.74496	333.99646	9.20682	0.2020257	0.17217960	3.1999872	21	—	—
196142 2002 TB_{270}	15.2	X	71.48476	243.13716	226.03006	9.09470	0.1047812	0.18017428	3.1046133	21	3 6.7	19.5
196143 2002 TZ_{270}	15.1	X	194.31967	107.17283	230.78987	8.87262	0.0802286	0.18109607	3.0940693	21	2 14.1	20.1
196144 2002 TE_{274}	15.1	X	58.61700	95.14771	339.22485	4.31517	0.1632794	0.17186082	3.2039431	21	1 15.6	19.0
196145 2002 TU_{279}	14.5	X	334.35433	44.33704	313.36207	8.98732	0.1000244	0.14929064	3.5192300	21	8 27.9	19.0
196146 2002 TY_{281}	15.0	X	94.28864	77.39909	312.39646	7.27406	0.2572263	0.17254024	3.1955267	21	1 26.4	19.1
196147 2002 TX_{294}	14.5	X	233.62225	77.72818	282.81456	13.65938	0.1963286	0.18888499	3.0084150	21	4 11.7	19.8
196148 2002 TE_{317}	15.3	X	107.08325	85.07187	305.90956	9.58133	0.0854149	0.17888476	3.1195155	21	1 18.4	19.5
196149 2002 TG_{319}	15.9	X	298.16455	19.66349	234.19613	1.95643	0.1443918	0.18819343	3.0157806	21	2 17.8	20.1
196150 2002 TT_{337}	17.6	X	29.11795	237.53329	95.85440	3.56611	0.1494391	0.31535664	2.1376408	21	11 28.5	19.8
196151 2002 UG_{7}	14.8	X	107.12579	289.10034	61.37819	19.54450	0.1266246	0.16937509	3.2352141	21	—	—
196152 2002 UG_{9}	15.2	X	218.97692	282.65127	117.96810	13.62912	0.2130586	0.19016421	2.9949083	21	5 25.9	20.5
196153 2002 UO_{31}	14.9	X	283.10865	343.59321	260.76261	8.27059	0.0484328	0.17880900	3.1203967	21	2 1.4	19.5
196154 2002 UH_{47}	14.9	X	190.59088	252.04229	55.52556	26.93682	0.2336046	0.17683857	3.1435332	21	1 17.3	20.7
196155 2002 UJ_{51}	15.1	X	142.22067	126.62326	290.88253	14.29054	0.0950942	0.18853663	3.0121197	21	3 22.8	19.9
196156 2002 UM_{61}	15.5	X	200.95673	146.31457	238.89196	8.71400	0.0679040	0.19243275	2.9713244	21	4 19.5	20.0
196157 2002 UV_{61}	15.4	X	172.32764	140.96996	217.00730	9.37948	0.1517574	0.18394942	3.0619900	21	2 19.2	20.5
196158 2002 VV_{8}	14.8	X	99.12838	330.60643	75.71387	16.18779	0.2727014	0.17357248	3.1828449	21	3 1.9	19.6
196159 2002 VT_{17}	15.1	X	22.72502	213.39410	131.58112	6.95298	0.1091214	0.15469638	3.4367606	21	10 30.9	19.6
196160 2002 VW_{26}	14.4	X	258.39595	109.52162	10.66203	14.06978	0.0568802	0.15494975	3.4330132	21	10 19.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196161 2002 VM_{37}	15.0	X	294.72046	140.29662	294.40944	5.64431	0.0618210	0.15293793	3.4630538	21	10 9.4	19.8
196162 2002 VW_{41}	17.8	X	1.29152	301.49781	51.91236	2.84991	0.1759390	0.31143759	2.1555364	21	11 14.4	19.2
196163 2002 VD_{43}	14.9	X	301.87862	202.00635	181.23064	9.97375	0.0966885	0.14656918	3.5626592	21	8 12.4	19.8
196164 2002 VZ_{46}	14.8	X	30.89327	246.89357	212.40300	12.13607	0.0569976	0.16966690	3.2315035	21	—	—
196165 2002 VV_{51}	15.4	X	136.54010	331.87879	120.34570	6.42396	0.2111352	0.18330307	3.0691837	21	5 18.8	20.4
196166 2002 VE_{54}	14.8	X	18.45291	282.97160	226.52591	22.62939	0.1422748	0.17329907	3.1861916	21	1 31.5	19.1
196167 2002 VO_{57}	15.4	X	108.35966	178.84670	206.24755	16.81624	0.1505385	0.17326805	3.1865719	21	1 18.6	20.2
196168 2002 VW_{62}	14.6	X	6.17473	240.76100	224.49790	12.64373	0.0528423	0.16854159	3.2458715	21	—	—
196169 2002 VF_{69}	14.5	X	134.73427	101.42652	245.77259	16.99611	0.1528926	0.17121400	3.2120074	21	1 4.9	19.5
196170 2002 VZ_{80}	14.6	X	60.50841	56.50483	79.27702	21.94854	0.2190828	0.17484274	3.1674102	21	4 24.9	18.8
196171 2002 VH_{96}	14.9	X	108.95190	347.51429	54.83487	17.17686	0.0424868	0.17497596	3.1658023	21	2 2.9	19.7
196172 2002 VZ_{99}	14.1	X	123.23405	138.95012	235.45923	26.22652	0.1455818	0.17665175	3.1457492	21	1 16.9	19.2
196173 2002 VT_{118}	14.1	X	56.21807	102.80351	49.33692	26.42685	0.2188605	0.17617094	3.1514702	21	5 1.5	17.8
196174 2002 WQ_{11}	16.2	X	33.95853	283.31719	64.97495	25.28797	0.2978859	0.31301539	2.1482868	21	—	—
196175 2002 XR_{2}	17.5	X	318.02451	165.21136	189.18213	3.31805	0.1636607	0.30317991	2.1945009	21	7 29.8	19.2
196176 2002 XQ_{6}	14.8	X	20.95012	64.92448	57.25448	16.22557	0.0282534	0.17148810	3.2085838	21	1 14.9	19.4
196177 2002 XY_{7}	14.8	X	118.31212	315.40927	63.91670	14.14446	0.1216449	0.17189019	3.2035781	21	1 26.4	19.6
196178 2002 XA_{49}	15.3	X	87.65899	352.52006	94.99110	2.20678	0.2291109	0.17366374	3.1817298	21	3 25.6	19.6
196179 2002 XZ_{60}	15.6	X	120.15559	17.51375	45.44897	1.61403	0.1638097	0.17541546	3.1605123	21	3 23.5	20.3
196180 2002 XH_{86}	16.6	X	336.22321	29.45172	6.63315	3.74579	0.1647728	0.30959193	2.1640949	21	11 27.5	18.0
196181 2002 XE_{116}	17.0	X	79.15052	48.23864	135.19829	4.54248	0.0621827	0.28411497	2.2916061	21	6 15.4	19.5
196182 2002 YP_{10}	17.3	X	228.48749	126.86131	23.18921	1.29334	0.0800302	0.30599763	2.1810084	21	11 11.3	19.9
196183 2002 YQ_{11}	16.6	X	12.81561	262.90501	89.38135	5.77074	0.2052789	0.30861074	2.1686794	21	12 8.7	18.6
196184 2002 YP_{13}	16.9	X	282.33877	220.94489	245.27477	2.56233	0.0119778	0.30887671	2.1674343	21	12 8.4	19.2
196185 2002 YB_{29}	17.2	X	210.63828	217.32240	305.63325	3.83054	0.1819126	0.30332864	2.1937835	21	10 21.9	20.4
196186 2002 YF_{31}	15.0	X	70.99729	4.47854	130.21968	5.94514	0.1169480	0.17273201	3.1931611	21	4 16.3	19.2
196187 2002 YB_{32}	17.2	X	312.35113	292.16250	121.87213	1.06205	0.1500617	0.30640288	2.1790849	21	11 2.1	18.4
196188 2003 AS_{4}	14.9	X	52.86381	137.92274	351.86069	16.32095	0.1924971	0.17457536	3.1706435	21	3 18.4	18.4
196189 2003 AG_{28}	15.0	X	102.65887	346.31005	115.26076	12.42313	0.0958556	0.17344084	3.1844551	21	4 16.2	19.7
196190 2003 AC_{29}	16.8	X	202.54200	175.74701	303.90333	5.37859	0.0773901	0.29682784	2.2256983	21	8 24.3	19.6
196191 2003 AX_{34}	17.1	X	287.97808	174.13847	255.68360	4.23231	0.1188125	0.30597890	2.1810974	21	10 8.7	19.2
196192 2003 AN_{39}	16.7	X	342.22810	198.50311	212.01544	3.64078	0.1449070	0.30968388	2.1636665	21	12 31.7	18.6
196193 2003 AD_{40}	16.8	X	176.35209	202.95303	261.66686	5.36831	0.0984398	0.29083333	2.2561775	21	7 2.9	20.0
196194 2003 AZ_{43}	17.0	X	41.69999	318.72169	31.51991	2.73923	0.2013256	0.31316662	2.1475951	21	—	—
196195 2003 AW_{49}	15.3	X	44.82137	135.22702	16.84247	1.81069	0.3023068	0.16963128	3.2319559	21	4 19.7	18.4
196196 2003 AU_{57}	16.8	X	136.03781	86.97877	86.16490	6.33772	0.0969509	0.29298572	2.2451141	21	8 23.9	19.9
196197 2003 AC_{75}	16.7	X	321.59020	22.97490	42.89669	6.79693	0.1299374	0.30875451	2.1680062	21	12 11.8	18.5
196198 2003 AF_{94}	16.7	X	58.77144	158.55814	351.78579	4.83764	0.0933927	0.27928715	2.3179394	21	3 27.6	18.8
196199 2003 BA	16.3	X	75.09795	18.33626	154.79613	5.38660	0.1392952	0.28256840	2.2999602	21	6 7.4	18.8
196200 2003 BZ_{1}	14.5	X	328.07153	292.25669	304.19222	24.14921	0.1460061	0.17017581	3.2250578	21	2 27.1	19.1
196201 2003 BP_{7}	17.0	X	195.08151	176.58129	271.44389	1.20692	0.1542209	0.29195475	2.2503964	21	6 29.9	20.3
196202 2003 BL_{9}	16.3	X	236.00087	173.78751	259.21628	6.43150	0.0671461	0.29568197	2.2314448	21	8 1.2	19.2
196203 2003 BB_{10}	17.1	X	110.69837	330.51415	235.85460	3.66992	0.1341901	0.29375555	2.2411899	21	9 8.1	20.2
196204 2003 BQ_{12}	16.9	X	192.14669	62.66243	60.05631	4.15601	0.1376422	0.29384884	2.2407156	21	8 15.9	20.1
196205 2003 BQ_{15}	16.7	X	227.17074	359.04513	81.11971	5.96116	0.1006967	0.29339882	2.2430062	21	7 30.2	19.6
196206 2003 BM_{17}	16.5	X	33.72998	165.58525	44.89149	5.74348	0.1933596	0.27936765	2.3174941	21	5 23.8	18.1
196207 2003 BC_{19}	16.6	X	324.83022	136.42727	260.14623	4.07562	0.1343653	0.30346642	2.1931194	21	10 29.4	18.3
196208 2003 BG_{20}	16.8	X	273.33167	93.36876	31.17190	6.30538	0.0692322	0.30662477	2.1780335	21	12 14.1	19.0
196209 2003 BY_{21}	16.6	X	101.13822	222.11890	295.46803	5.64696	0.0932722	0.28653462	2.2786869	21	6 14.4	19.5
196210 2003 BM_{25}	16.7	X	195.07081	251.33572	254.41793	4.69877	0.0860303	0.29651903	2.2272433	21	9 18.9	19.8
196211 2003 BT_{30}	16.3	X	188.45705	86.28000	305.00482	9.82538	0.1579633	0.28377180	2.2934532	21	4 3.8	20.1
196212 2003 BV_{31}	17.2	X	217.86027	199.90520	275.64714	4.48094	0.1162964	0.29793041	2.2202037	21	9 1.6	20.3
196213 2003 BL_{32}	17.0	X	240.97714	282.80736	127.74486	4.91830	0.1634995	0.29360624	2.2419497	21	6 26.4	20.0
196214 2003 BD_{37}	15.9	X	332.38346	258.53025	334.30181	5.10141	0.1653926	0.27203754	2.3589396	21	2 18.5	18.4
196215 2003 BG_{38}	16.8	X	132.48525	91.50683	115.11943	4.81236	0.0834317	0.29732050	2.2232390	21	10 4.6	19.8
196216 2003 BA_{42}	17.1	X	230.07984	356.59092	140.70310	2.99390	0.0702283	0.30252059	2.1976883	21	10 29.1	19.6
196217 2003 BR_{42}	15.0	X	40.64056	19.85260	160.71894	11.34601	0.0507692	0.17271662	3.1933507	21	4 24.7	19.4
196218 2003 BH_{44}	16.6	X	38.58583	219.12583	324.05804	6.57749	0.0874082	0.27951344	2.3166882	21	4 7.0	18.9
196219 2003 BF_{46}	17.1	X	344.59618	240.65658	133.07937	1.45534	0.1757712	0.30428488	2.1891850	21	11 10.3	18.5
196220 2003 BK_{51}	17.2	X	177.24958	149.22121	284.40625	1.45008	0.1502212	0.28693617	2.2765604	21	5 23.4	20.7
196221 2003 BM_{52}	17.1	X	257.92142	352.98247	112.29009	4.89343	0.0375764	0.30048005	2.2076266	21	10 29.4	19.6
196222 2003 BW_{52}	16.3	X	302.55899	254.80643	349.55059	5.85202	0.1971906	0.27237714	2.3569785	21	1 23.2	19.7
196223 2003 BO_{53}	17.6	X	153.02563	168.49944	3.88516	1.58580	0.0890116	0.29426646	2.2385951	21	9 9.0	20.6
196224 2003 BA_{55}	16.4	X	254.95742	202.73210	18.46419	2.30964	0.1831197	0.26239469	2.4163844	21	—	—
196225 2003 BD_{57}	17.2	X	286.48004	294.45538	129.08469	3.18323	0.1182978	0.30243456	2.1981050	21	9 29.5	19.2
196226 2003 BS_{61}	17.2	X	71.91820	277.88172	246.27168	1.44767	0.0988543	0.28283699	2.2985039	21	5 11.4	19.6
196227 2003 BR_{63}	17.0	X	280.13937	345.31634	86.26829	5.79540	0.0780760	0.30040325	2.2080029	21	10 8.9	19.3
196228 2003 BM_{64}	17.2	X	166.01464	3.17226	127.18708	4.74538	0.1058083	0.29265307	2.2468151	21	7 27.4	20.2
196229 2003 BC_{67}	17.5	X	162.88791	140.10857	329.12260	2.15878	0.1172784	0.28807029	2.2705813	21	6 24.9	20.8
196230 2003 BO_{80}	16.8	X	107.55153	108.10530	44.02206	6.21019	0.0909627	0.28385378	2.2930116	21	6 14.6	19.8
196231 2003 BL_{82}	17.1	X	254.90492	98.00429	25.52376	5.06480	0.0798511	0.30507881	2.1853853	21	11 10.9	19.5
196232 2003 BN_{84}	17.4	X	4.74324	249.86936	301.96951	1.26992	0.1564045	0.27440986	2.3453243	21	2 14.9	19.7
196233 2003 BC_{92}	17.9	X	204.00523	283.29320	152.47889	4.83940	0.1753994	0.29040750	2.2583825	21	6 21.7	21.4
196234 2003 CH_{2}	16.6	X	90.29962	96.19023	110.18903	5.19975	0.1301702	0.28740102	2.2741050	21	8 16.7	19.4
196235 2003 CJ_{2}	16.8	X	54.99425	197.17560	11.73628	6.03280	0.1467066	0.28218491	2.3020435	21	6 29.5	19.2
196236 2003 CV_{2}	16.8	X	198.42126	210.26552	280.67010	4.50237	0.0785148	0.29622617	2.2287110	21	9 3.1	19.7
196237 2003 CL_{10}	17.0	X	300.82006	250.77453	214.79127	3.77069	0.1101736	0.30733736	2.1746655	21	—	—
196238 2003 CY_{10}	16.0	X	359.08282	232.85118	355.92082	9.15225	0.1321103	0.27662260	2.3328005	21	4 2.4	18.2
196239 2003 CZ_{17}	17.0	X	220.84725	86.68825	59.36795	5.02709	0.0891085	0.29976445	2.2111386	21	10 25.6	19.6
196240 2003 CH_{18}	16.9	X	123.04655	202.08843	287.77329	3.90312	0.0846323	0.28491025	2.2873397	21	6 2.5	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196241 2003 CT_{19}	17.1	X	169.33980	276.42476	165.43762	5.31922	0.1221295	0.28534127	2.2850357	21	5 26.8	20.4
196242 2003 CV_{21}	17.4	X	240.37366	246.95291	181.82657	2.09830	0.1674671	0.29568435	2.2314329	21	7 20.4	20.4
196243 2003 DS_{2}	16.5	X	48.54692	234.06121	338.76553	6.48198	0.1441471	0.28126356	2.3070680	21	6 23.0	18.8
196244 2003 DH_{8}	16.3	X	18.44960	64.90677	147.57882	7.74921	0.1222187	0.27781112	2.3261424	21	4 22.5	18.5
196245 2003 DB_{9}	17.4	X	279.47597	16.53743	31.04506	4.62397	0.1278354	0.29680445	2.2258152	21	8 21.8	19.8
196246 2003 DL_{9}	16.9	X	119.13702	112.13868	32.51100	7.26335	0.0489550	0.28557894	2.2837677	21	6 13.1	19.8
196247 2003 DP_{9}	16.5	X	32.30047	185.64423	3.37391	5.95623	0.1149046	0.27512401	2.3412640	21	4 8.6	18.5
196248 2003 DX_{13}	16.9	X	76.95231	123.29930	87.43165	1.54465	0.1753712	0.28604905	2.2812649	21	8 11.4	19.7
196249 2003 DA_{14}	16.4	X	5.41834	103.29279	88.70656	3.32365	0.1480225	0.27175906	2.3605508	21	2 20.2	18.5
196250 2003 DN_{17}	16.4	X	274.28334	53.30853	179.14634	4.79305	0.1029121	0.26461937	2.4028222	21	—	—
196251 2003 DL_{21}	16.4	X	281.32435	99.38303	163.88308	6.35216	0.1114697	0.27094284	2.3652893	21	1 31.7	19.7
196252 2003 DY_{23}	16.9	X	279.31119	51.84828	171.60412	4.61658	0.0994513	0.26455649	2.4032029	21	—	—
196253 2003 DC_{24}	16.6	X	300.86279	263.82201	355.86623	6.79465	0.0837554	0.27301814	2.3532878	21	2 25.5	19.4
196254 2003 DU_{24}	17.4	X	7.03106	242.50338	336.92288	1.66616	0.1384444	0.27684979	2.3315241	21	4 4.6	19.5
196255 2003 EZ	16.4	X	28.12543	203.46466	353.51593	6.70498	0.1860269	0.27554345	2.3388874	21	4 13.3	18.1
196256 2003 EH_{1}	16.2	X	117.12501	171.33816	282.98833	70.83192	0.6185411	0.17854924	3.1234223	21	6 24.9	22.9
196257 2003 EM_{3}	16.9	X	209.97528	3.66086	82.83444	4.13476	0.1252857	0.29147480	2.2528661	21	7 15.5	19.9
196258 2003 EM_{5}	16.9	X	317.05817	269.08305	273.68433	1.29195	0.1245553	0.26529822	2.3987215	21	—	—
196259 2003 ED_{6}	16.7	X	326.88821	44.34483	16.02924	5.54594	0.1414859	0.30566629	2.1825843	21	12 13.9	18.3
196260 2003 EE_{7}	17.0	X	256.93529	138.31880	316.48344	4.28747	0.1160497	0.29897539	2.2150273	21	9 24.5	19.4
196261 2003 EQ_{9}	17.1	X	33.22954	319.55373	219.03860	1.99528	0.1474939	0.27462326	2.3441092	21	3 26.6	19.1
196262 2003 EK_{10}	16.9	X	18.16265	233.83518	314.14805	5.19632	0.1308581	0.27415290	2.3467896	21	3 8.6	18.9
196263 2003 EW_{10}	16.5	X	68.33996	283.37292	219.94708	3.38357	0.1846250	0.27635109	2.3343283	21	4 17.9	18.5
196264 2003 EE_{11}	15.9	X	58.33080	224.70913	329.78236	6.89121	0.1215873	0.27946917	2.3169328	21	6 7.1	18.4
196265 2003 EF_{11}	16.6	X	112.31314	341.64841	210.77492	2.64596	0.2340946	0.28675506	2.2775189	21	8 31.2	20.2
196266 2003 EC_{12}	17.0	X	66.59477	188.12077	325.47871	3.07371	0.1638803	0.27654982	2.3332098	21	4 25.8	19.4
196267 2003 EF_{12}	16.6	X	291.25004	44.08665	189.90117	10.51008	0.1772739	0.26466315	2.4025572	21	—	—
196268 2003 ES_{15}	16.7	X	25.13216	355.69392	227.49899	5.04509	0.0901796	0.27915591	2.3186658	21	5 18.7	18.7
196269 2003 EG_{17}	16.5	X	96.58164	52.09458	120.79189	6.50516	0.0628012	0.28389640	2.2927822	21	6 25.6	19.1
196270 2003 EK_{19}	16.5	X	310.86541	275.26016	328.56867	5.00131	0.1820892	0.27067588	2.3668442	21	2 2.4	19.7
196271 2003 ED_{20}	17.2	X	111.95242	210.47473	296.92984	1.98436	0.1007894	0.28323566	2.2963465	21	6 15.7	19.9
196272 2003 EE_{21}	17.4	X	107.60863	184.07885	336.71991	2.89543	0.1120764	0.28363008	2.2942171	21	7 1.2	20.3
196273 2003 EC_{22}	16.6	X	95.81615	94.55224	127.55445	4.83331	0.0956904	0.29032363	2.2588174	21	9 11.1	19.5
196274 2003 ET_{22}	16.5	X	98.56164	98.76004	66.83799	3.69091	0.1581313	0.28318602	2.2966149	21	7 2.9	19.5
196275 2003 EJ_{23}	16.8	X	22.49253	94.00984	75.57496	3.56284	0.1724445	0.27198779	2.3592273	21	2 18.8	18.6
196276 2003 EP_{24}	16.9	X	30.92336	101.00628	79.82914	4.18498	0.1136724	0.27431094	2.3458881	21	3 28.2	19.0
196277 2003 EH_{26}	16.3	X	354.71305	242.75015	359.81524	7.89353	0.0765892	0.27812043	2.3244174	21	4 20.3	18.8
196278 2003 ES_{26}	17.2	X	81.96973	151.30601	7.06780	3.35415	0.1088656	0.28024101	2.3126767	21	5 20.1	19.7
196279 2003 ET_{28}	16.5	X	101.30117	350.70647	159.64417	8.79550	0.1373156	0.28011490	2.3133707	21	6 12.3	19.6
196280 2003 EL_{29}	16.8	X	281.04323	137.88176	85.93533	3.79007	0.1535358	0.26211845	2.4180818	21	—	—
196281 2003 EM_{29}	16.7	X	56.13325	150.58900	35.77226	3.62509	0.1635393	0.27820303	2.3239573	21	5 28.6	18.7
196282 2003 EX_{31}	16.7	X	48.70673	357.39062	249.70088	5.02871	0.1291395	0.28664747	2.2780888	21	8 11.4	19.2
196283 2003 ES_{33}	16.6	X	58.45373	34.58240	180.62185	5.24181	0.1098824	0.28296245	2.2978244	21	7 7.6	19.1
196284 2003 EO_{36}	17.4	X	3.75094	11.94464	173.41260	0.94242	0.1275454	0.27160737	2.3614297	21	2 8.0	19.6
196285 2003 ET_{41}	16.3	X	108.92293	118.10636	146.65709	5.87529	0.2641095	0.23889352	2.5723682	21	11 25.7	20.8
196286 2003 ED_{45}	17.0	X	210.11723	246.01494	276.87536	4.53797	0.0817241	0.29881309	2.2158293	21	11 2.0	19.7
196287 2003 EQ_{45}	16.4	X	60.86925	176.54178	323.19423	5.53024	0.0794903	0.27279979	2.3545434	21	3 14.1	19.0
196288 2003 EU_{48}	16.6	X	307.76606	161.88266	56.96177	3.06486	0.1539353	0.26578071	2.3958175	21	1 1.8	19.9
196289 2003 EZ_{48}	16.6	X	309.48630	100.08616	134.22710	5.18715	0.1134502	0.26883554	2.3776336	21	1 28.6	19.5
196290 2003 EP_{49}	17.2	X	68.59131	189.91347	356.98825	1.44762	0.1357357	0.28017663	2.3130309	21	6 16.3	19.5
196291 2003 EP_{50}	16.2	X	284.52519	286.68520	355.45808	10.22897	0.1631217	0.27216226	2.3582189	21	2 25.8	19.5
196292 2003 ES_{52}	16.3	X	24.01049	170.97426	58.75772	8.51825	0.0844859	0.28072933	2.3099940	21	5 25.9	18.6
196293 2003 EV_{58}	16.8	X	25.68955	129.00261	73.57265	5.14884	0.1451748	0.27605740	2.3359836	21	4 20.9	18.7
196294 2003 ER_{59}	15.4	X	347.04946	271.62312	290.20047	19.62286	0.1734145	0.27022347	2.3694852	21	1 24.6	18.1
196295 2003 EP_{61}	16.9	X	139.85075	22.94427	95.57956	4.58145	0.0639200	0.28281038	2.2986481	21	6 6.5	19.7
196296 2003 EY_{61}	16.7	X	118.68267	190.01431	87.75316	3.10397	0.1169085	0.24360896	2.5390654	21	12 12.1	20.3
196297 2003 FA	17.0	X	143.46130	301.12623	0.28349	14.46156	0.1352458	0.25316441	2.4747668	21	—	—
196298 2003 FQ	16.7	X	269.43276	163.48581	74.85210	5.73349	0.1577484	0.26365864	2.4086556	21	—	—
196299 2003 FN_{1}	16.1	X	157.91449	315.92010	188.45377	24.90468	0.2648214	0.28846646	2.2685020	21	8 5.9	20.5
196300 2003 FW_{3}	16.3	X	127.76548	240.89499	12.17971	23.66030	0.3226375	0.24036167	2.5618827	21	11 17.8	21.4
196301 2003 FG_{6}	16.4	X	275.26619	234.45833	7.99767	6.67211	0.0771278	0.26328597	2.4109280	21	1 5.2	19.9
196302 2003 FJ_{10}	17.1	X	197.06352	120.49520	16.53999	6.03108	0.1206466	0.29294663	2.2453138	21	9 10.8	20.3
196303 2003 FG_{12}	17.2	X	125.42665	256.01687	234.62904	1.70497	0.1028688	0.28100307	2.3084936	21	6 9.7	20.2
196304 2003 FY_{14}	16.2	X	295.67647	217.18226	12.61495	6.25372	0.0927272	0.26521003	2.3992532	21	1 10.8	19.5
196305 2003 FN_{15}	16.9	X	357.71309	218.00330	26.22266	2.28496	0.1764172	0.27475826	2.3433413	21	4 22.0	18.7
196306 2003 FT_{16}	17.0	X	23.34099	204.00363	42.32133	2.04524	0.1673680	0.27983051	2.3149379	21	6 28.3	18.6
196307 2003 FL_{19}	16.7	X	355.96788	110.73082	125.24019	7.64400	0.1018085	0.27727087	2.3291630	21	4 17.3	19.1
196308 2003 FX_{23}	17.0	X	328.17624	69.28750	148.21161	1.71344	0.1330677	0.26908184	2.3761825	21	1 27.8	19.7
196309 2003 FD_{24}	17.2	X	249.16769	121.48846	142.08339	1.19220	0.1859904	0.26238884	2.4164203	21	—	—
196310 2003 FO_{24}	16.4	X	130.49696	116.63633	52.55751	6.55129	0.1105932	0.28720253	2.2751526	21	8 12.9	19.7
196311 2003 FV_{28}	16.1	X	339.11207	101.96050	110.86334	6.18442	0.1340197	0.26837707	2.3803407	21	2 7.6	18.7
196312 2003 FB_{29}	16.7	X	113.14337	18.16700	157.19087	10.72941	0.0769872	0.28364452	2.2941393	21	7 23.0	19.8
196313 2003 FF_{31}	17.4	X	315.54541	14.47177	73.59743	7.08261	0.1383557	0.30671563	2.1776033	21	—	—
196314 2003 FF_{34}	16.5	X	324.26370	192.02905	42.62087	1.09272	0.1659368	0.26958976	2.3731970	21	2 9.9	19.3
196315 2003 FR_{34}	17.2	X	31.47527	80.71205	92.87326	0.75164	0.1207958	0.27289035	2.3540225	21	3 16.1	19.4
196316 2003 FZ_{34}	13.1	X	218.70031	18.93002	131.74198	1.86975	0.0217840	0.08203091	5.2458720	21	10 9.6	20.1
196317 2003 FR_{37}	16.5	X	60.16463	188.39705	359.09313	6.31689	0.0768534	0.27877149	2.3207969	21	5 22.3	19.1
196318 2003 FZ_{37}	13.2	X	347.11030	197.93258	208.46829	5.03972	0.0358179	0.08474446	5.1332826	21	11 6.8	19.8
196319 2003 FB_{39}	16.7	X	30.29867	100.29788	83.61782	3.10086	0.1374977	0.27405250	2.3473627	21	3 31.5	18.6
196320 2003 FE_{40}	16.4	X	134.64526	48.59618	213.85319	3.56818	0.1511343	0.24458862	2.5322809	21	12 9.7	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196321 2003 FU_{41}	17.0	X	173.27416	326.94433	165.48006	6.34172	0.0789463	0.28812384	2.2703000	21	8 6.4	20.0
196322 2003 FY_{41}	16.5	X	250.24757	21.41831	192.36252	2.89307	0.1248189	0.25621719	2.4550700	21	—	—
196323 2003 FT_{42}	17.1	X	291.46190	53.17156	178.81900	5.10340	0.1948414	0.26452627	2.4033859	21	—	—
196324 2003 FV_{43}	16.2	X	163.86304	332.25974	358.79794	6.57788	0.1568063	0.26023086	2.4297608	21	1 3.2	19.8
196325 2003 FL_{47}	17.1	X	283.70855	38.40348	192.41433	0.71857	0.1408402	0.26285067	2.4135890	21	—	—
196326 2003 FM_{49}	16.6	X	94.23354	136.04261	77.66032	2.96542	0.1534982	0.28565442	2.2833654	21	9 4.4	19.6
196327 2003 FE_{51}	17.0	X	135.04003	124.28789	37.97554	4.42454	0.0626999	0.28863680	2.2676094	21	8 3.5	20.0
196328 2003 FB_{54}	17.0	X	55.71694	163.52524	37.89307	3.16170	0.1592266	0.27875926	2.3208648	21	6 20.6	19.2
196329 2003 FW_{54}	16.6	X	36.31012	128.94647	69.68366	6.17027	0.1101784	0.27488418	2.3426256	21	5 4.3	18.8
196330 2003 FN_{55}	17.3	X	44.16323	271.99572	267.52925	3.27790	0.1782841	0.27670730	2.3323245	21	4 23.2	19.2
196331 2003 FY_{56}	17.1	X	334.10067	112.19256	118.64886	1.96996	0.1376323	0.27214078	2.3583430	21	2 23.3	19.8
196332 2003 FM_{58}	16.6	X	116.15900	17.80392	109.59616	2.95203	0.0965599	0.28053424	2.3110648	21	5 23.8	19.5
196333 2003 FS_{60}	16.6	X	140.42906	24.47595	124.34723	4.77285	0.0813654	0.28611703	2.2809035	21	7 21.7	19.6
196334 2003 FM_{64}	16.0	X	234.42445	303.43246	30.18950	10.19462	0.1508671	0.27114680	2.3641030	21	3 15.7	19.7
196335 2003 FH_{68}	16.7	X	166.09396	48.79720	54.11517	5.72360	0.1086462	0.28339520	2.2954846	21	6 19.2	19.9
196336 2003 FN_{71}	16.8	X	246.49889	198.33151	67.98750	2.97378	0.1647458	0.26162799	2.4211029	21	—	—
196337 2003 FG_{73}	16.1	X	293.23923	208.98700	29.37991	7.20825	0.1200911	0.26501366	2.4004382	21	1 16.1	19.5
196338 2003 FB_{74}	16.4	X	309.23114	177.38970	54.00434	5.32359	0.1832458	0.26596988	2.3946814	21	1 16.6	19.6
196339 2003 FM_{76}	17.2	X	315.05787	222.71479	327.80820	1.78175	0.1488033	0.26335775	2.4104899	21	—	—
196340 2003 FH_{78}	16.5	X	41.38910	115.44881	174.86028	5.13086	0.2428648	0.23241824	2.6199273	21	10 18.4	19.6
196341 2003 FV_{78}	17.0	X	28.51985	291.32781	237.92416	1.85386	0.1320314	0.27128317	2.3633106	21	3 2.1	19.1
196342 2003 FP_{79}	16.1	X	35.98333	109.09523	112.79045	7.72004	0.0599651	0.28047699	2.3113793	21	6 4.2	18.7
196343 2003 FA_{83}	16.1	X	33.08737	39.98689	175.39031	8.14964	0.0971029	0.27655150	2.3332003	21	5 23.9	18.5
196344 2003 FJ_{83}	16.7	X	46.46585	86.15344	150.50451	6.07387	0.1029009	0.28099717	2.3085259	21	7 19.2	19.1
196345 2003 FB_{84}	16.8	X	254.27159	91.38693	45.35819	4.32153	0.1086979	0.30371645	2.1919157	21	11 24.7	18.9
196346 2003 FU_{88}	15.6	X	36.52346	69.85617	221.48937	11.48913	0.2070099	0.22964136	2.6410056	21	10 2.1	18.9
196347 2003 FA_{89}	16.7	X	17.94241	347.57544	233.97701	3.02079	0.1686259	0.27552228	2.3390072	21	5 2.5	18.4
196348 2003 FS_{89}	16.7	X	18.67585	257.22324	301.87562	3.92282	0.0369568	0.27367104	2.3495435	21	3 29.7	19.4
196349 2003 FC_{90}	16.3	X	342.04068	241.63237	335.55978	6.59600	0.0537817	0.27066077	2.3669323	21	2 28.3	18.9
196350 2003 FM_{90}	16.6	X	143.16476	244.60663	270.15952	5.14108	0.0492365	0.28610603	2.2809620	21	7 30.0	19.5
196351 2003 FC_{91}	16.5	X	81.19095	162.01847	327.82144	6.22686	0.1504790	0.27441574	2.3452908	21	4 11.6	19.1
196352 2003 FG_{96}	16.6	X	317.83755	219.99707	13.65961	5.87466	0.1808698	0.26980079	2.3719593	21	1 30.5	19.7
196353 2003 FC_{101}	16.8	X	28.37791	348.93963	180.37648	4.46823	0.0902708	0.27205833	2.3588195	21	3 3.0	19.2
196354 2003 FL_{102}	16.5	X	319.08512	206.50467	7.32475	1.95001	0.1668071	0.26667053	2.3904851	21	1 6.9	19.5
196355 2003 FB_{103}	16.8	X	209.29252	268.24203	10.62594	1.29404	0.1464455	0.25869256	2.4393836	21	—	—
196356 2003 FV_{103}	16.6	X	28.40855	32.38683	200.12477	7.18027	0.0555434	0.27978756	2.3151748	21	6 6.5	19.1
196357 2003 FD_{104}	16.8	X	35.62000	246.97237	277.15293	2.13474	0.1812820	0.27178041	2.3604272	21	3 9.2	18.4
196358 2003 FT_{104}	16.4	X	316.81650	110.32282	113.18644	1.48753	0.1633520	0.26549953	2.3975088	21	1 17.2	19.3
196359 2003 FE_{105}	16.7	X	264.47864	235.70562	359.42337	1.47028	0.0917624	0.26134151	2.4228719	21	—	—
196360 2003 FR_{106}	16.8	X	311.10012	225.35942	43.75457	2.82598	0.1780005	0.27120291	2.3637769	21	3 9.6	19.6
196361 2003 FS_{106}	16.8	X	29.90875	177.46348	56.52779	3.45659	0.1250389	0.27913124	2.3188025	21	6 17.0	18.7
196362 2003 FT_{108}	16.9	X	261.27256	161.96719	86.11987	3.59060	0.1588931	0.26202696	2.4186446	21	—	—
196363 2003 FA_{109}	16.4	X	359.18891	335.59850	253.51404	5.86926	0.1570553	0.27346170	2.3507424	21	3 30.8	18.6
196364 2003 FX_{110}	12.7	X	113.50617	347.04984	282.71133	5.27253	0.0511486	0.08177749	5.2567039	21	10 29.5	19.8
196365 2003 FX_{113}	16.8	X	1.14300	205.51617	352.02143	3.35270	0.1703565	0.27067804	2.3668316	21	2 16.8	18.8
196366 2003 FY_{113}	16.4	X	239.24431	222.12894	353.25279	6.59389	0.1459577	0.25441444	2.4666539	21	—	—
196367 2003 FA_{114}	16.9	X	22.33424	259.50651	335.02386	2.73231	0.1197425	0.27828633	2.3234935	21	6 1.2	19.0
196368 2003 FO_{114}	16.5	X	280.82461	357.91105	234.54769	4.29175	0.2474817	0.26047722	2.4282285	21	—	—
196369 2003 FY_{115}	15.9	X	83.35247	21.79252	226.96515	11.37202	0.1391964	0.23335250	2.6129298	21	9 27.1	19.8
196370 2003 FL_{117}	17.1	X	19.13000	97.86978	103.35977	3.98212	0.1594933	0.27500964	2.3419131	21	4 4.2	19.0
196371 2003 FA_{118}	16.4	X	274.86814	203.33739	42.22691	7.35653	0.1989083	0.26378333	2.4078965	21	—	—
196372 2003 FH_{119}	16.3	X	269.93396	129.93357	100.36155	2.56080	0.1461272	0.25997460	2.4313572	21	—	—
196373 2003 FO_{127}	16.2	X	124.66695	92.27826	204.75182	3.99452	0.2323595	0.24535732	2.5269891	21	—	—
196374 2003 FO_{130}	16.6	X	26.10381	161.01153	69.79565	7.21908	0.0552622	0.28055498	2.3109510	21	5 30.3	18.9
196375 2003 FR_{131}	15.9	X	96.03923	115.83380	176.06631	13.92905	0.1727986	0.23837754	2.5760789	21	12 11.2	20.2
196376 2003 GM_{1}	16.0	X	7.35596	356.36430	188.10817	6.98979	0.0881507	0.26882577	2.3776912	21	2 16.3	18.5
196377 2003 GM_{2}	16.7	X	64.77433	4.58046	178.96265	5.92033	0.0353676	0.27846963	2.3224738	21	5 21.3	19.4
196378 2003 GU_{2}	16.7	X	332.02630	245.79768	347.09707	5.94304	0.0689089	0.27109190	2.3644222	21	3 5.6	19.5
196379 2003 GE_{3}	16.5	X	50.65552	16.78084	177.41350	1.23801	0.1800735	0.27838691	2.3229339	21	6 2.9	18.5
196380 2003 GM_{3}	17.0	X	24.57921	312.64535	197.15715	1.50028	0.1467316	0.26928823	2.3749682	21	1 23.8	19.2
196381 2003 GZ_{3}	16.8	X	12.73477	209.15553	3.65896	2.32693	0.1374150	0.27412492	2.3469493	21	4 6.9	18.6
196382 2003 GZ_{4}	16.8	X	10.17025	101.47448	47.30513	2.89213	0.1536158	0.26632759	2.3925367	21	—	—
196383 2003 GC_{5}	16.6	X	279.88544	254.93813	22.51197	2.12862	0.1920101	0.26702758	2.3883537	21	2 11.3	20.2
196384 2003 GW_{5}	16.8	X	261.11155	215.89995	5.33256	1.96211	0.1314956	0.25783365	2.4447980	21	—	—
196385 2003 GM_{6}	16.0	X	118.42044	62.21732	193.63873	12.88871	0.2140653	0.23778975	2.5803223	21	11 20.4	20.5
196386 2003 GR_{6}	16.5	X	18.15262	141.85104	98.84840	4.39977	0.1377695	0.27631294	2.3345431	21	6 4.7	18.5
196387 2003 GU_{6}	16.8	X	82.74183	126.16820	87.85937	6.26725	0.1108323	0.28273945	2.2990325	21	8 15.4	19.6
196388 2003 GS_{8}	16.4	X	330.13664	13.37447	196.19428	2.12644	0.1542371	0.26624378	2.3930388	21	1 16.8	19.2
196389 2003 GG_{11}	16.8	X	336.16542	264.31931	349.29001	1.97762	0.1296402	0.27362317	2.3498175	21	3 31.5	19.2
196390 2003 GZ_{12}	16.4	X	351.37450	346.72316	184.95649	5.15954	0.1854521	0.26577070	2.3958777	21	—	—
196391 2003 GQ_{19}	17.3	X	238.86397	101.04514	177.07603	0.96639	0.1418549	0.26200929	2.4187534	21	1 7.6	20.9
196392 2003 GX_{22}	16.5	X	311.71821	46.40940	173.48401	3.79171	0.1088912	0.26406019	2.4062132	21	1 13.6	19.7
196393 2003 GD_{23}	17.0	X	34.71192	195.76294	350.29951	3.82767	0.1422678	0.27412180	2.3469671	21	4 10.2	18.9
196394 2003 GL_{23}	15.4	X	355.93599	271.64184	17.50463	23.73080	0.2410378	0.22396143	2.6854716	21	7 8.7	18.3
196395 2003 GE_{24}	17.1	X	242.61753	114.92819	117.17697	2.28623	0.1357213	0.25618212	2.4552940	21	—	—
196396 2003 GH_{24}	16.4	X	341.50351	79.40919	131.46575	7.45445	0.0657329	0.26896684	2.3768597	21	2 18.7	19.0
196397 2003 GS_{25}	17.0	X	301.93694	133.55758	82.45115	3.91927	0.1327863	0.26560442	2.3968776	21	—	—
196398 2003 GW_{27}	16.4	X	277.73553	242.54763	340.69199	1.75167	0.1532116	0.26048723	2.4281663	21	—	—
196399 2003 GE_{32}	16.8	X	309.82958	32.98614	187.16301	14.53265	0.0763038	0.26565776	2.3965567	21	1 14.1	20.3
196400 2003 GM_{32}	16.7	X	11.16217	18.49618	152.45398	4.47075	0.1036333	0.26865365	2.3787066	21	2 3.3	19.2

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
196401	2003 GM_{33}	17.0	X	85.22035	117.16578	45.80409	1.97569	0.1484048	0.27825278	2.3236803	21	6 8.7	19.6
196402	2003 GN_{34}	16.3	X	117.46903	263.72633	359.45076	12.65152	0.2223714	0.24052486	2.5607238	21	11 23.9	20.8
196403	2003 GW_{34}	16.4	X	96.74292	90.08457	150.70385	11.92501	0.1476637	0.23468083	2.6030608	21	10 9.8	20.4
196404	2003 GO_{37}	16.7	X	59.44961	182.87102	0.57027	5.19220	0.1355354	0.27678667	2.3318786	21	5 24.6	19.2
196405	2003 GX_{37}	16.6	X	20.07111	197.92458	52.35582	5.48364	0.1151001	0.27965752	2.3158924	21	6 22.7	18.7
196406	2003 GF_{42}	17.0	X	9.96001	87.70992	106.30829	3.10056	0.1583549	0.27186444	2.3599408	21	3 3.1	19.0
196407	2003 GM_{46}	17.0	X	214.18443	358.49256	82.64207	6.32111	0.0687395	0.28627926	2.2800417	21	7 17.5	19.9
196408	2003 GW_{47}	12.4	X	59.45523	271.72690	58.84525	11.16474	0.0275714	0.08239576	5.2303747	21	11 7.0	19.3
196409	2003 GN_{48}	16.8	X	122.92975	189.24126	85.38250	5.36265	0.2159216	0.24265730	2.5456995	21	12 15.1	21.0
196410	2003 GN_{49}	16.5	X	7.07378	14.33529	127.07110	4.80590	0.1270541	0.26388623	2.4072705	21	—	—
196411	Umurhan	17.5	X	226.05185	217.92221	201.37254	2.06644	0.0988758	0.28407523	2.2918198	21	6 27.7	20.5
196412	2003 GK_{54}	16.7	X	247.75461	179.60652	80.09198	4.50171	0.1532313	0.26104912	2.4246808	21	—	—
196413	2003 GS_{54}	16.3	X	226.02840	142.68613	170.64301	7.26681	0.1280082	0.26592034	2.3949789	21	2 6.2	19.9
196414	2003 GS_{55}	16.1	X	111.46968	51.15182	181.15621	8.18932	0.1577958	0.23383582	2.6093281	21	10 12.5	20.2
196415	2003 HE	17.0	X	344.43622	357.53718	230.56776	1.60202	0.1415418	0.26876466	2.3780516	21	3 6.8	19.6
196416	2003 HP_{1}	16.3	X	149.68263	102.03478	138.30019	4.52556	0.1193049	0.24264248	2.5458032	21	11 27.5	20.2
196417	2003 HP_{2}	16.2	X	289.97520	162.06447	43.07810	6.96123	0.0717319	0.25976035	2.4326939	21	—	—
196418	2003 HX_{5}	16.5	X	318.34168	11.21396	165.15892	6.62926	0.0832514	0.26076141	2.4264639	21	—	—
196419	2003 HF_{9}	16.1	X	142.39333	64.09860	216.96669	7.28547	0.1678342	0.24588019	2.5234054	21	—	—
196420	2003 HO_{9}	15.5	X	354.38053	62.87801	204.24276	13.40324	0.1499656	0.22039715	2.7143472	21	5 31.2	18.5
196421	2003 HS_{9}	17.3	X	63.22238	356.88319	146.23590	1.74095	0.1306808	0.27197568	2.3592973	21	4 1.3	19.5
196422	2003 HF_{11}	17.7	X	228.71758	236.04450	198.32184	5.99174	0.1399937	0.28883498	2.2665720	21	7 16.7	20.9
196423	2003 HL_{12}	16.3	X	274.16419	93.13911	180.29713	6.56367	0.1212304	0.26659647	2.3909278	21	2 5.0	19.7
196424	2003 HJ_{14}	16.1	X	65.01660	83.58304	161.78920	12.59294	0.1757350	0.22940161	2.6428453	21	9 8.6	19.5
196425	2003 HA_{20}	16.8	X	280.29587	235.05763	15.24724	2.16175	0.1192623	0.26330627	2.4108041	21	1 16.2	20.1
196426	2003 HB_{20}	16.8	X	122.08054	238.41995	17.52829	3.46646	0.1595762	0.23986354	2.5654284	21	11 19.3	20.9
196427	2003 HG_{20}	16.4	X	132.88765	60.37638	205.69877	6.08168	0.1704080	0.24262763	2.5459071	21	12 12.5	20.5
196428	2003 HJ_{20}	17.0	X	304.04882	184.60755	70.72410	3.20594	0.1820766	0.26655164	2.3911958	21	2 10.7	20.2
196429	2003 HS_{20}	16.8	X	338.01783	279.90975	300.26903	0.58938	0.1342311	0.26864629	2.3787501	21	2 14.9	19.6
196430	2003 HE_{21}	16.1	X	67.88330	248.94840	38.85917	13.33190	0.1633198	0.23597609	2.5935267	21	11 4.6	19.6
196431	2003 HB_{22}	16.0	X	45.39717	241.73994	51.63193	12.47959	0.2762849	0.23051754	2.6343091	21	11 2.1	19.4
196432	2003 HA_{28}	16.9	X	277.56884	269.81264	340.54773	1.67823	0.1415515	0.26221393	2.4174947	21	1 11.2	20.4
196433	2003 HO_{28}	16.5	X	1.13875	197.22999	31.34443	6.76107	0.1648011	0.27135835	2.3628741	21	4 7.3	18.3
196434	2003 HW_{29}	16.0	X	112.18565	220.50827	62.58210	3.46212	0.1918287	0.23977799	2.5660386	21	12 15.0	20.1
196435	2003 HD_{30}	16.3	X	347.00925	209.15908	10.03208	5.52781	0.1335799	0.26875117	2.3781312	21	3 2.1	18.7
196436	2003 HL_{30}	16.6	X	334.33539	174.00529	56.60100	3.02559	0.1623642	0.26814195	2.3817319	21	2 21.1	19.2
196437	2003 HU_{31}	16.7	X	328.43688	105.35535	152.17046	1.99258	0.0929908	0.27123320	2.3636009	21	3 31.9	19.3
196438	2003 HM_{33}	17.4	X	219.53894	134.48056	141.09579	1.82935	0.1632158	0.25643132	2.4537031	21	—	—
196439	2003 HU_{33}	16.6	X	40.87272	146.07573	20.27616	5.65677	0.1140064	0.27264357	2.3554427	21	3 24.1	18.8
196440	2003 HQ_{35}	12.6	X	124.71490	247.26118	23.85820	20.95311	0.0204754	0.08390014	5.1676640	21	11 6.3	19.6
196441	2003 HL_{36}	16.7	X	268.42305	293.70834	27.95362	6.63770	0.1387885	0.27348662	2.3505996	21	4 2.2	20.0
196442	2003 HF_{37}	16.4	X	358.15303	227.14517	344.26219	5.11362	0.1704262	0.26999525	2.3708203	21	3 3.4	18.5
196443	2003 HK_{37}	16.8	X	342.72556	0.06186	237.78150	5.30468	0.1387719	0.26963958	2.3729047	21	3 16.5	19.5
196444	2003 HQ_{37}	16.6	X	293.61551	274.72691	274.71456	3.37786	0.2207509	0.25808963	2.4431812	21	—	—
196445	2003 HW_{37}	16.1	X	125.82568	49.34202	246.52724	8.39503	0.2114021	0.24371914	2.5383001	21	—	—
196446	2003 HP_{39}	16.7	X	45.96586	1.12924	187.39500	1.56972	0.1768107	0.27406410	2.3472965	21	5 14.6	18.7
196447	2003 HO_{43}	16.7	X	345.12949	355.47484	185.74320	4.28457	0.1464689	0.26444956	2.4038507	21	1 1.6	19.5
196448	2003 HH_{44}	16.8	X	315.96418	184.71563	86.48555	3.55748	0.1127837	0.27136809	2.3628176	21	3 30.7	19.5
196449	2003 HB_{47}	16.8	X	290.85682	77.09006	149.21755	2.42336	0.1640443	0.26061767	2.4273560	21	—	—
196450	2003 HH_{47}	15.6	X	162.70710	105.49210	69.99080	23.61253	0.2616478	0.28954417	2.2628694	21	10 6.2	20.1
196451	2003 HO_{47}	16.7	X	8.81394	64.38261	106.73447	2.09060	0.1265961	0.26669954	2.3903117	21	1 29.3	18.9
196452	2003 HO_{48}	16.0	X	97.33359	17.75815	244.24848	10.50260	0.2011350	0.23512530	2.5997792	21	11 6.1	20.1
196453	2003 HC_{49}	15.5	X	48.79585	225.94036	74.22374	15.91892	0.2578114	0.22984517	2.6394441	21	11 13.9	19.2
196454	2003 HF_{50}	16.5	X	112.51049	119.51883	137.90288	4.37026	0.1208727	0.23793455	2.5792754	21	11 11.9	20.5
196455	2003 HG_{50}	16.1	X	9.92829	152.83034	185.30946	15.00152	0.1397432	0.23115138	2.6294912	21	10 17.2	18.9
196456	2003 HJ_{51}	16.3	X	31.36776	131.30363	189.18247	12.71053	0.2757280	0.23221297	2.6214710	21	11 19.3	19.6
196457	2003 HG_{52}	16.7	X	39.37903	327.26537	162.68890	5.76776	0.0836628	0.26473162	2.4021429	21	1 25.6	19.4
196458	2003 HS_{52}	16.6	X	71.67452	64.89353	177.33732	3.71643	0.1502375	0.23001120	2.6381737	21	9 8.6	20.1
196459	2003 HV_{52}	17.0	X	246.78094	261.66179	29.08109	1.97169	0.1843042	0.26202223	2.4186737	21	1 29.5	20.8
196460	2003 HF_{53}	15.9	X	36.65280	258.65804	11.74268	16.77605	0.2833110	0.22647427	2.6655703	21	9 22.1	18.9
196461	2003 HV_{53}	16.2	X	214.54384	269.74755	44.07866	6.28241	0.1074077	0.26398278	2.4066835	21	1 30.2	19.8
196462	2003 HQ_{54}	16.5	X	11.86619	18.46019	160.66555	1.62308	0.1088529	0.26737593	2.3862788	21	2 16.6	18.7
196463	2003 HV_{57}	16.6	X	138.65941	305.89117	89.76102	8.66835	0.1057569	0.26248622	2.4158226	21	2 22.2	19.9
196464	2003 HH_{58}	17.0	X	24.37519	156.22886	3.88014	2.41223	0.1343862	0.26784974	2.3834638	21	2 10.7	19.1
196465	2003 JG_{5}	16.1	X	60.73572	262.85393	53.13856	13.29066	0.2928202	0.23558111	2.5964248	21	12 16.3	20.2
196466	2003 JB_{7}	16.8	X	22.47914	35.27688	153.58493	2.76340	0.1437953	0.26973255	2.3723594	21	3 22.3	18.7
196467	2003 JX_{8}	16.4	X	290.49279	89.08671	134.35906	5.58319	0.1396205	0.26052066	2.4279586	21	—	—
196468	2003 JH_{9}	16.6	X	5.83967	52.03155	136.95056	2.89274	0.1371962	0.26796506	2.3827800	21	2 17.5	18.7
196469	2003 JN_{9}	17.0	X	312.82904	137.89622	78.33921	3.20344	0.1585673	0.26217605	2.4177276	21	1 4.5	20.3
196470	2003 JJ_{10}	16.4	X	297.42978	157.32129	99.04789	5.11279	0.1285347	0.26633078	2.3925176	21	2 11.6	19.6
196471	2003 JH_{11}	16.5	X	163.53676	350.19145	33.48127	6.81136	0.1374393	0.26556670	2.3971045	21	3 9.3	20.0
196472	2003 JY_{11}	17.2	X	250.05843	35.84593	221.99128	0.57981	0.1524490	0.26011946	2.4304545	21	—	—
196473	2003 JD_{12}	16.4	X	78.79715	65.68539	205.68876	4.28203	0.1511495	0.23598420	2.5934672	21	10 26.3	20.0
196474	2003 JX_{13}	16.2	X	154.90099	76.16911	173.50123	6.56254	0.2379938	0.24166486	2.5526643	21	12 10.8	20.8
196475	2003 JV_{15}	17.0	X	344.44001	155.32745	40.04227	3.13490	0.1323793	0.26578022	2.3958205	21	1 23.4	19.7
196476	Humfernandez	15.4	X	337.50046	159.92725	130.97073	15.61909	0.2282964	0.21769483	2.7367637	21	5 27.2	18.4
196477	2003 JB_{18}	16.5	X	351.86866	122.40019	203.85403	12.75908	0.1146886	0.22840941	2.6504934	21	8 18.9	19.7
196478	2003 KC	17.2	X	102.01046	53.64843	110.96793	4.52769	0.1179782	0.27806516	2.3247254	21	6 29.8	20.1
196479	2003 KU	16.5	X	239.00255	232.95618	10.52043	12.33779	0.1988017	0.25477905	2.4642999	21	—	—
196480	2003 KF_{1}	16.0	X	67.92036	58.58547	185.58977	13.16856	0.2370170	0.22785551	2.6547871	21	9 18.3	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196481 VATT	17.5	X	5.04112	77.08947	74.67967	2.74687	0.1327862	0.26136766	2.4227103	21	—	—
196482 2003 KW_3	16.0	X	99.12813	289.26924	351.46405	6.45122	0.1996573	0.23704917	2.5856938	21	11 29.9	20.3
196483 2003 KV_6	16.7	X	73.13509	266.29586	199.35077	5.21373	0.1570982	0.26509473	2.3999488	21	2 24.8	19.2
196484 2003 KK_9	16.3	X	125.28889	268.35632	1.32265	7.20053	0.1796467	0.23988987	2.5652406	21	12 8.9	20.6
196485 2003 KG_{10}	17.0	X	268.44598	163.73302	71.04957	2.11543	0.0622009	0.25989836	2.4318327	21	—	—
196486 2003 KZ_{11}	16.4	X	278.34511	150.50467	117.91213	3.44135	0.1789449	0.26317949	2.4115783	21	1 30.8	20.0
196487 2003 KA_{12}	16.7	X	141.11205	183.77399	80.74808	6.28272	0.1917058	0.24192067	2.5508646	21	12 17.3	20.9
196488 2003 KM_{12}	12.8	X	345.15303	273.92844	148.47123	9.60615	0.0248203	0.08175569	5.2576386	21	11 23.4	19.7
196489 2003 KC_{14}	15.4	X	48.05495	136.60931	192.16559	31.94941	0.2831705	0.23160635	2.6260464	21	12 17.2	19.9
196490 2003 KB_{17}	16.2	X	121.11340	150.16837	135.96241	6.55718	0.1708817	0.24113462	2.5564051	21	12 25.8	20.4
196491 2003 KJ_{17}	15.3	X	69.82182	101.32747	225.31715	15.91199	0.2689236	0.23628245	2.5912843	21	—	—
196492 2003 KX_{19}	16.4	X	27.42924	47.36217	136.59964	6.41547	0.0551959	0.26827864	2.3809228	21	3 27.4	19.0
196493 2003 KB_{20}	16.1	X	173.81752	90.60858	156.18387	6.57278	0.1078391	0.24443395	2.5333491	21	12 28.8	20.0
196494 2003 KF_{33}	17.5	X	152.43850	33.13573	103.47370	3.55527	0.1462594	0.28351466	2.2948398	21	7 22.6	20.9
196495 2003 LJ_1	16.1	X	116.28385	47.22560	165.86445	8.54926	0.0344782	0.23086421	2.6316713	21	9 10.8	19.7
196496 2003 LB_3	17.0	X	24.00913	172.88857	51.53512	2.87700	0.0426684	0.27541379	2.3396215	21	5 16.7	19.3
196497 2003 LZ_3	15.9	X	90.52692	206.76535	68.98547	12.79959	0.1669194	0.23423908	2.6063325	21	11 15.9	19.8
196498 2003 LY_5	15.9	X	141.52683	54.71016	229.97491	12.98778	0.1509479	0.23864469	2.5741560	21	—	—
196499 2003 LV_6	15.7	X	83.12042	101.19808	171.12769	12.73355	0.2468526	0.23267936	2.6179668	21	11 13.2	20.0
196500 2003 LW_6	15.6	X	126.92861	186.78803	77.05756	13.59748	0.1165819	0.23782885	2.5800395	21	12 2.8	19.4
196501 2003 LX_6	15.8	X	109.45043	215.41669	76.10072	8.91309	0.1879766	0.23802449	2.5786256	21	12 22.2	19.9
196502 2003 MA_1	15.3	X	23.20060	329.18767	280.31215	14.56560	0.2468117	0.21764207	2.7372060	21	7 12.1	17.7
196503 2003 MX_6	15.4	X	144.92709	99.75482	135.32801	12.37124	0.1979671	0.23851564	2.5750844	21	11 19.0	19.9
196504 2003 MT_8	16.3	X	70.99286	30.24495	238.75733	4.48276	0.2168266	0.22776748	2.6554710	21	10 20.6	20.2
196505 2003 MD_9	15.8	X	340.84975	36.30535	251.11390	12.81581	0.2154701	0.21502030	2.7594111	21	5 26.0	18.2
196506 2003 MW_{11}	15.7	X	323.57234	63.92391	280.91111	8.07202	0.1616342	0.21839586	2.7309041	21	7 22.4	18.7
196507 2003 MN_{12}	15.3	X	82.11892	354.84579	238.73337	13.40707	0.1135825	0.22287306	2.6942072	21	8 29.2	19.4
196508 2003 MY_{12}	15.8	X	1.35386	190.62290	125.34224	11.16159	0.2077600	0.22043179	2.7140628	21	9 3.1	18.3
196509 2003 MA_{13}	16.0	X	122.43552	73.75197	286.95341	11.68556	0.3158619	0.24304758	2.5429715	21	1 17.3	19.5
196510 2003 NR_1	15.9	X	16.64441	355.46973	299.37822	8.35861	0.1978480	0.22121909	2.7076196	21	8 28.3	18.6
196511 2003 NS_2	15.9	X	82.43716	182.00233	120.07129	14.24832	0.1933506	0.23638495	2.5905352	21	12 12.9	20.1
196512 2003 NZ_2	15.4	X	53.71049	192.10408	122.74632	15.02903	0.0914541	0.22872658	2.6480425	21	11 16.6	19.2
196513 2003 NA_5	15.8	X	358.21042	296.60460	323.40585	7.32572	0.2446136	0.21581060	2.7526703	21	5 19.5	18.2
196514 2003 NQ_5	15.5	X	136.04769	70.30223	240.75120	11.35000	0.0680358	0.24090670	2.5580172	21	—	—
196515 2003 NP_{11}	16.0	X	8.02638	333.67887	273.48951	8.51234	0.1405026	0.21322237	2.7749013	21	5 28.1	18.9
196516 2003 OJ	14.6	X	67.22286	179.09733	222.48371	15.71799	0.1580523	0.18059451	3.0997953	21	—	—
196517 2003 OP	16.1	X	132.61439	242.81682	34.90940	2.86713	0.2056215	0.23773308	2.5807324	21	12 25.5	20.4
196518 2003 OS_3	15.9	X	346.43017	136.43437	165.41621	4.24072	0.0774425	0.21560413	2.7544274	21	7 8.8	19.2
196519 2003 OL_4	15.5	X	14.35684	227.46429	147.93420	5.45283	0.1353041	0.23128330	2.6284912	21	12 12.9	18.6
196520 2003 OP_6	15.6	X	269.09529	264.42316	109.25102	12.03009	0.2951608	0.21053380	2.7984754	21	5 28.1	20.1
196521 2003 OE_9	16.1	X	122.55719	67.13595	191.06986	12.87037	0.1522691	0.23251245	2.6192195	21	11 23.5	20.4
196522 2003 OJ_{10}	15.5	X	314.63385	265.60390	138.72389	12.02577	0.1810668	0.22342970	2.6897306	21	10 5.4	18.4
196523 2003 OJ_{15}	16.3	X	307.33855	112.96321	184.60937	12.17359	0.3004090	0.21071962	2.7968300	21	3 31.2	20.0
196524 2003 OS_{15}	16.4	X	1.33850	42.43088	228.68492	7.92243	0.2763843	0.21535219	2.7565753	21	6 18.0	18.3
196525 2003 OT_{15}	16.3	X	271.02004	119.31770	226.55190	8.26918	0.1879237	0.20884762	2.8135180	21	5 4.9	20.6
196526 2003 OY_{15}	15.5	X	4.24755	28.72677	263.41644	8.03575	0.1325091	0.21622345	2.7491653	21	7 24.9	18.6
196527 2003 OZ_{17}	16.1	X	71.11753	250.86698	31.48850	4.45942	0.2842862	0.22905063	2.6455444	21	11 14.4	20.1
196528 2003 OE_{18}	15.5	X	356.80020	165.71797	231.31983	8.74525	0.0917165	0.23062818	2.6334665	21	12 8.6	18.6
196529 2003 OA_{20}	16.0	X	327.48811	32.41142	306.57233	8.24304	0.1397385	0.21868887	2.7284643	21	7 25.2	18.7
196530 2003 OB_{20}	15.3	X	199.88427	44.82661	263.73802	9.81716	0.0692326	0.19577893	2.9373706	21	1 15.6	19.9
196531 2003 OC_{20}	15.8	X	25.14672	197.36900	192.85505	4.32154	0.1302012	0.23461215	2.6035687	21	—	—
196532 2003 OY_{20}	16.0	X	128.08759	186.41796	83.74709	4.41669	0.2059639	0.23553734	2.5967464	21	12 12.8	20.2
196533 2003 OK_{21}	14.9	X	350.91882	292.21169	49.64498	10.07789	0.2796942	0.21802141	2.7340301	21	9 25.1	17.0
196534 2003 OR_{21}	15.4	X	349.29861	262.20696	122.71089	13.70269	0.1766572	0.22729214	2.6591721	21	11 20.7	18.3
196535 2003 OR_{27}	15.7	X	347.10840	176.31531	137.33989	8.44920	0.1193171	0.21737006	2.7394890	21	7 25.6	18.6
196536 2003 OF_{28}	15.5	X	295.52896	279.29091	79.49201	3.27514	0.0973645	0.21453235	2.7635937	21	7 6.3	18.9
196537 2003 OK_{29}	16.1	X	271.38706	50.31264	303.17311	0.96197	0.1057014	0.20982319	2.8047902	21	5 25.9	20.1
196538 2003 OR_{29}	15.4	X	151.72183	74.34211	319.12564	7.11478	0.0975460	0.19662689	2.9289196	21	3 8.9	19.8
196539 2003 OA_{30}	16.2	X	223.65108	32.98195	339.86010	8.05712	0.3061596	0.20346614	2.8629117	21	4 15.6	21.6
196540 Weinbaum	16.4	X	317.61532	151.96499	207.56895	8.46963	0.2704044	0.21779898	2.7358912	21	7 14.3	19.4
196541 2003 OW_{32}	16.1	X	319.56792	355.20568	297.29453	2.72982	0.0701896	0.21009977	2.8023282	21	5 15.1	19.8
196542 2003 PZ	15.8	X	322.33744	324.08803	348.73708	9.24886	0.2650668	0.21220600	2.7837546	21	5 14.8	19.2
196543 2003 PS_1	16.0	X	293.99476	24.05051	325.37782	7.25976	0.2310707	0.21296181	2.7771642	21	5 29.4	19.8
196544 2003 PB_2	15.3	X	284.06173	66.70087	309.81867	12.12252	0.1552878	0.21443452	2.7644342	21	7 6.3	19.0
196545 2003 PQ_7	15.4	X	128.53243	352.81008	271.65105	8.70485	0.0550458	0.23386129	2.6091387	21	12 1.7	19.3
196546 2003 PT_{11}	16.0	X	24.22215	168.52399	163.23538	13.99031	0.2602060	0.22579081	2.6709467	21	11 21.2	19.3
196547 2003 QE_2	16.4	X	358.61630	132.14937	166.60617	2.02967	0.1204106	0.21521879	2.7577142	21	7 25.3	19.2
196548 2003 QN_2	16.1	X	269.60825	190.23186	213.42822	5.70540	0.0217423	0.21695670	2.7429676	21	8 9.5	19.9
196549 2003 QR_3	15.8	X	335.44208	164.75233	125.38206	10.57692	0.1385450	0.21290145	2.7776891	21	5 31.9	19.1
196550 2003 QP_5	15.3	X	317.35974	345.69347	348.69728	9.36857	0.3395320	0.21459959	2.7630164	21	5 23.8	18.7
196551 2003 QW_6	16.0	X	19.97381	69.76920	302.48061	2.88623	0.1109208	0.22865207	2.6486178	21	12 12.3	19.1
196552 2003 QD_7	15.7	X	258.67175	25.68943	344.61953	3.78833	0.1196540	0.20940178	2.8085520	21	5 30.0	19.8
196553 2003 QO_7	15.2	X	116.68183	26.04605	333.54880	14.68147	0.1821351	0.18570642	3.0426461	21	1 6.5	19.7
196554 2003 QZ_7	16.3	X	329.89345	8.27876	292.71939	2.45275	0.0754442	0.21252986	2.7809259	21	6 11.4	19.7
196555 2003 QU_9	16.1	X	323.29421	289.37234	9.74891	9.41282	0.1964483	0.21265981	2.7797928	21	5 9.1	19.4
196556 2003 QH_{12}	15.7	X	348.12900	201.85624	147.37974	6.80391	0.0473292	0.21957901	2.7210854	21	9 18.6	19.1
196557 2003 QU_{12}	15.5	X	266.06929	280.79669	80.67098	5.39208	0.0863049	0.21046282	2.7991046	21	6 1.8	19.4
196558 2003 QB_{13}	15.4	X	296.52091	277.58855	93.95766	5.62502	0.1690005	0.21379058	2.7699823	21	7 14.1	18.9
196559 2003 QG_{13}	15.6	X	318.00331	296.29470	33.66920	4.03605	0.0983660	0.21218635	2.7839264	21	6 30.7	19.0
196560 2003 QQ_{14}	15.9	X	305.02787	169.62446	184.98575	11.41651	0.1419703	0.21476325	2.7616125	21	7 6.5	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196561 2003 QY_{15}	15.9	X	274.93543	190.76505	186.50700	13.56879	0.2521590	0.21142912	2.7905696	21	6 10.9	20.3
196562 2003 QU_{18}	15.6	X	20.17199	175.08316	142.42591	10.13609	0.1880102	0.22158078	2.7046723	21	10 13.7	18.7
196563 2003 QU_{19}	15.7	X	300.81883	249.63905	134.95627	8.12668	0.0897107	0.21699727	2.7426257	21	8 20.9	19.1
196564 2003 QJ_{20}	16.4	X	13.91080	163.56080	140.82988	5.79254	0.2958379	0.21968071	2.7202455	21	9 26.6	18.6
196565 2003 QX_{20}	15.2	X	283.29008	255.28974	357.51752	18.48759	0.2315738	0.19823318	2.9130761	21	1 27.7	20.1
196566 2003 QE_{24}	16.4	X	139.70248	68.59063	221.25127	2.72202	0.1605409	0.23762837	2.5814905	21	—	—
196567 2003 QP_{25}	14.6	X	299.77753	188.45894	315.89994	14.98480	0.0497176	0.18190187	3.0849250	21	—	—
196568 2003 QL_{27}	16.3	X	28.26561	87.65621	197.40997	3.25578	0.2636342	0.22149271	2.7053892	21	9 19.7	19.1
196569 2003 QY_{28}	15.0	X	166.92683	316.97274	14.44732	9.97124	0.0845375	0.18989670	2.9977203	21	1 14.3	19.7
196570 2003 QW_{31}	15.8	X	350.99979	171.82693	164.09784	4.22663	0.0706346	0.21977976	2.7194281	21	9 3.3	18.8
196571 2003 QB_{32}	15.9	X	30.81646	318.69652	321.60355	7.97183	0.1775100	0.21974491	2.7197156	21	9 1.9	19.0
196572 2003 QS_{32}	15.8	X	0.57045	186.81915	150.28654	5.96479	0.0707805	0.22055697	2.7130358	21	9 21.9	19.1
196573 2003 QR_{34}	15.6	X	236.93544	260.77028	136.37942	5.12027	0.0779556	0.21146531	2.7902511	21	6 14.5	19.8
196574 2003 QK_{36}	15.6	X	325.64334	175.43247	174.20683	8.86753	0.1904338	0.21603459	2.7507673	21	7 29.1	18.5
196575 2003 QV_{36}	16.1	X	316.42456	332.95648	351.90710	7.84722	0.2188392	0.21244720	2.7816471	21	5 31.3	19.5
196576 2003 QE_{40}	15.6	X	281.12098	193.05865	157.56214	1.96672	0.2146529	0.20983158	2.8047155	21	5 19.4	19.5
196577 2003 QT_{40}	15.8	X	314.39250	163.91128	139.42850	5.53550	0.1259582	0.21103589	2.7940350	21	5 16.6	19.3
196578 2003 QV_{40}	15.8	X	4.10553	183.79437	154.94837	9.96503	0.1582298	0.22262384	2.6962176	21	10 9.3	18.7
196579 2003 QD_{41}	15.6	X	355.42996	296.90092	350.57597	9.19078	0.1797855	0.21330837	2.7741554	21	7 3.2	18.5
196580 2003 QJ_{41}	14.8	X	132.14519	305.30634	348.02983	10.84000	0.1888506	0.17929724	3.1147293	21	—	—
196581 2003 QS_{45}	15.7	X	222.22681	318.14600	156.44009	9.22092	0.0134214	0.22040633	2.7142718	21	9 15.2	19.3
196582 2003 QS_{46}	15.8	X	280.25949	254.88476	106.83678	10.16844	0.2469780	0.21215437	2.7842062	21	5 29.7	19.9
196583 2003 QM_{48}	16.1	X	219.91285	81.83148	264.47364	1.27027	0.0992096	0.20036369	2.8923890	21	3 22.1	20.5
196584 2003 QX_{48}	15.7	X	6.63048	173.73823	139.98850	5.43581	0.0389284	0.21849517	2.7300765	21	8 27.2	19.0
196585 2003 QJ_{49}	15.5	X	74.91524	305.51518	144.27157	12.66483	0.0742938	0.19324423	2.9630003	21	2 12.6	19.4
196586 2003 QC_{50}	15.2	X	7.24450	244.87909	18.60392	8.95964	0.1296439	0.21158199	2.7892252	21	6 19.8	18.4
196587 2003 QJ_{50}	15.4	X	296.78788	236.11115	113.08271	8.74380	0.2354735	0.21192820	2.7861867	21	6 4.0	19.2
196588 2003 QA_{51}	15.4	X	258.27585	200.60935	141.70554	6.88577	0.0719169	0.20422709	2.8557958	21	5 3.1	19.6
196589 2003 QG_{51}	15.7	X	297.31939	298.39224	43.26421	6.07594	0.0568533	0.20970679	2.8058281	21	6 21.3	19.5
196590 2003 QL_{53}	15.4	X	182.41629	287.20329	98.97917	3.23923	0.0900872	0.20004762	2.8954348	21	4 3.9	19.9
196591 2003 QL_{56}	15.7	X	316.70718	182.59077	148.96970	10.24544	0.1444330	0.21276567	2.7788707	21	6 24.5	19.2
196592 2003 QE_{60}	15.8	X	279.28697	23.74883	2.90265	12.27662	0.1118622	0.21276929	2.7788393	21	7 22.8	19.7
196593 2003 QC_{61}	15.3	X	311.53139	241.41441	108.19493	6.09266	0.1773979	0.21310004	2.7759631	21	7 5.9	18.3
196594 2003 QG_{64}	16.2	X	35.65635	265.38996	90.17241	3.69919	0.3054430	0.22495520	2.6775568	21	—	—
196595 2003 QX_{64}	15.8	X	289.52289	306.91604	58.00752	5.00164	0.1172551	0.21272573	2.7792186	21	7 2.9	19.5
196596 2003 QH_{65}	16.0	X	92.47710	300.92780	117.63681	14.18644	0.1529860	0.24367846	2.5385825	21	1 28.9	18.8
196597 2003 QJ_{66}	15.9	X	311.73536	217.22591	159.07604	9.97053	0.1681474	0.21762597	2.7373410	21	8 14.6	18.8
196598 2003 QK_{66}	15.3	X	10.01494	258.49842	344.55826	10.75035	0.1881372	0.21052884	2.7985193	21	5 23.5	18.3
196599 2003 QX_{66}	16.1	X	307.88796	252.48669	81.28704	3.18116	0.2321072	0.21349831	2.7725098	21	5 29.5	19.4
196600 2003 QH_{68}	16.6	X	358.74827	153.38603	148.05192	3.96474	0.1773290	0.21683404	2.7440019	21	7 30.6	19.2
196601 2003 QY_{68}	16.9	X	102.27309	270.29177	349.52665	21.42393	0.0343632	0.39195590	1.8491746	21	11 8.1	19.4
196602 2003 QQ_{70}	16.3	X	121.02138	272.88855	90.82027	5.82354	0.1039040	0.24231330	2.5481083	21	—	—
196603 2003 QT_{70}	16.3	X	108.08833	305.20685	95.98274	6.02247	0.1972931	0.24404887	2.5360132	21	2 5.3	19.4
196604 2003 QH_{74}	15.7	X	275.31051	116.24103	285.14076	6.99833	0.2317337	0.21490730	2.7603783	21	7 14.7	19.7
196605 2003 QM_{75}	16.0	X	313.47868	166.53187	187.28189	9.22409	0.1966503	0.21491716	2.7602938	21	7 10.8	19.3
196606 2003 QX_{75}	15.5	X	27.76931	112.47172	186.10089	12.98133	0.2071820	0.22012501	2.7165839	21	9 28.9	18.4
196607 2003 QC_{76}	15.1	X	95.42316	73.16672	338.86534	18.85837	0.2805640	0.18660253	3.0328973	21	2 24.9	19.3
196608 2003 QE_{77}	15.3	X	28.39940	320.63153	330.79088	8.59705	0.1585136	0.21793490	2.7347535	21	9 10.3	18.5
196609 2003 QQ_{78}	16.5	X	20.76428	58.56976	200.33442	20.69820	0.0516506	0.37398972	1.9079322	21	6 29.5	18.7
196610 2003 QK_{79}	15.7	X	220.80369	74.87759	333.68992	9.57156	0.1557909	0.20695120	2.8306799	21	6 3.9	20.4
196611 2003 QA_{85}	15.8	X	201.93516	104.18237	186.07961	11.04050	0.1400969	0.19056809	2.9906753	21	—	—
196612 2003 QQ_{89}	15.3	X	313.75086	35.82223	263.23147	13.06895	0.1831240	0.21089851	2.7952482	21	4 25.4	19.1
196613 2003 QN_{90}	15.2	X	281.63760	87.40028	347.95970	12.55360	0.1156255	0.21844897	2.7304615	21	9 23.8	18.6
196614 2003 QB_{96}	16.5	X	138.26356	189.53072	11.23287	2.60878	0.0389779	0.21772777	2.7364877	21	9 21.2	20.4
196615 2003 QY_{107}	16.5	X	68.40998	196.39479	84.66550	4.08584	0.2401954	0.22691150	2.6621450	21	11 6.7	20.4
196616 2003 QE_{108}	17.2	X	207.16601	218.95287	349.12020	23.00312	0.0625515	0.39919149	1.8267616	21	—	—
196617 2003 QQ_{111}	14.6	X	135.14977	310.91492	36.37742	14.72653	0.2190307	0.18148897	3.0896022	21	1 16.5	19.6
196618 2003 QG_{114}	16.1	X	286.54801	342.18911	12.65740	4.41282	0.0849548	0.21150337	2.7899164	21	6 19.8	19.8
196619 2003 RH_{3}	15.8	X	335.37009	319.40884	351.68895	4.11837	0.0513943	0.21289238	2.7777680	21	7 6.9	19.3
196620 2003 RN_{4}	15.6	X	94.34141	45.34975	248.78246	13.25145	0.1434679	0.22925717	2.6439552	21	12 7.5	19.6
196621 2003 RH_{5}	15.7	X	235.71945	73.39528	351.95456	7.11007	0.2196864	0.21056985	2.7981560	21	7 6.6	20.3
196622 2003 RN_{5}	15.6	X	299.84490	253.58932	112.87828	8.80749	0.2466648	0.21277520	2.7787878	21	6 28.9	19.0
196623 2003 RX_{5}	14.9	X	226.16217	254.27497	148.35131	15.42002	0.1532708	0.20474331	2.8509936	21	6 5.9	19.7
196624 2003 RK_{9}	16.3	X	256.16114	240.67211	180.22270	3.68245	0.0977526	0.21562389	2.7542592	21	8 4.5	20.0
196625 2003 RM_{10}	20.2	X	55.94977	287.28267	341.31789	13.72902	0.5916458	0.39265680	1.8469734	21	11 24.7	24.0
196626 2003 RH_{11}	15.6	X	334.78061	20.08003	263.39676	7.51564	0.1964451	0.21037251	2.7999056	21	5 9.5	18.6
196627 2003 RR_{14}	16.0	X	27.65725	260.48620	41.24860	5.06499	0.1918795	0.22130315	2.7069339	21	10 2.8	19.1
196628 2003 RV_{16}	16.1	X	252.19723	115.81615	304.12605	8.27554	0.1474819	0.21322378	2.7748891	21	7 23.7	20.2
196629 2003 RH_{20}	15.8	X	109.17990	345.42524	13.93540	4.86104	0.1596049	0.18311671	3.0712658	21	—	—
196630 2003 RH_{21}	16.0	X	171.41822	193.78790	159.91716	1.95847	0.1718118	0.19281100	2.9674370	21	2 16.7	20.7
196631 2003 RE_{22}	15.6	X	338.19641	333.14697	320.41294	11.98194	0.1091098	0.21073018	2.7967366	21	6 11.0	19.1
196632 2003 SH_{1}	16.4	X	168.79955	89.23201	296.34599	2.90497	0.1428601	0.19615212	2.9336438	21	3 20.5	21.1
196633 2003 SO_{2}	16.5	X	11.62036	333.83703	341.15100	4.31347	0.1061029	0.21793389	2.7347620	21	9 9.8	19.6
196634 2003 SC_{3}	15.0	X	30.45173	106.46946	337.89789	3.78989	0.0418635	0.18220786	3.0814703	21	—	—
196635 2003 SO_{3}	15.8	X	308.05601	40.29402	328.50848	5.50039	0.0652800	0.21387217	2.7692778	21	8 12.8	19.4
196636 2003 SA_{4}	16.3	X	126.94270	274.18465	177.47303	2.08649	0.0342078	0.19858499	2.9096345	21	4 16.9	20.2
196637 2003 SF_{8}	15.9	X	212.72685	137.10636	213.81780	1.27594	0.0589375	0.19738195	2.9214453	21	3 22.0	20.2
196638 2003 SO_{10}	15.5	X	318.56722	327.81979	194.80542	9.92578	0.0283624	0.18385549	3.0630328	21	—	—
196639 2003 SD_{13}	15.7	X	178.56212	242.80978	156.52007	2.44724	0.1029366	0.19970020	2.8987920	21	4 15.8	20.3
196640 Mulhacén	15.5	X	160.82472	195.43761	288.62372	7.31074	0.0500187	0.21007804	2.8025215	21	7 9.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196641 2003 SP_{17}	15.9	X	209.02376	141.41021	197.81017	8.04937	0.1621725	0.19578853	2.9372746	21	3 1.5	20.8
196642 2003 SR_{17}	15.2	X	272.01007	42.83718	193.89882	10.72114	0.0479626	0.19002457	2.9963753	21	1 9.6	19.7
196643 2003 SH_{18}	15.7	X	294.82782	83.84706	177.71831	13.42746	0.1243717	0.20119231	2.8844419	21	2 23.1	20.0
196644 2003 ST_{23}	15.8	X	76.66994	274.53402	164.94399	5.04099	0.1840119	0.18805005	3.0173133	21	2 17.3	19.4
196645 2003 SW_{23}	15.4	X	25.53191	227.34102	357.34336	9.60246	0.0826413	0.20659788	2.8339062	21	5 23.6	19.1
196646 2003 SY_{23}	15.7	X	303.52219	180.15906	197.21760	4.79339	0.1738050	0.21416720	2.7667340	21	7 31.0	19.0
196647 2003 SL_{25}	15.4	X	77.63581	34.39104	224.40103	4.96365	0.0550989	0.21796462	2.7345049	21	9 21.4	19.2
196648 2003 SP_{25}	16.1	X	143.97182	102.73837	329.59998	4.09775	0.1295986	0.19683989	2.9268062	21	4 20.6	20.6
196649 2003 SG_{26}	15.6	X	199.48966	65.53714	357.06367	11.06685	0.1520847	0.20468130	2.8515694	21	5 31.5	20.4
196650 2003 SM_{26}	15.5	X	200.87342	19.98635	295.62432	7.76582	0.0749418	0.19069246	2.9893748	21	1 26.9	19.9
196651 2003 SN_{28}	15.6	X	236.34974	116.37012	336.46775	6.87068	0.0909537	0.21409118	2.7673889	21	8 24.4	19.3
196652 2003 SG_{30}	15.3	X	43.41044	179.95697	216.14290	1.56028	0.1224345	0.17862030	3.1225939	21	—	—
196653 2003 SV_{30}	15.6	X	23.45549	295.80933	16.93451	7.61184	0.0718408	0.21684531	2.7439068	21	9 23.7	18.9
196654 2003 SS_{34}	16.1	X	292.28762	81.38999	281.13254	4.18684	0.0927435	0.21297741	2.7770287	21	7 7.2	19.5
196655 2003 SY_{34}	16.0	X	252.08924	187.40772	140.02009	2.67458	0.0535481	0.20061629	2.8899606	21	4 7.8	20.0
196656 2003 SA_{35}	15.3	X	178.15992	250.00520	136.01480	3.02305	0.0377900	0.19748793	2.9204000	21	3 27.8	19.4
196657 2003 SR_{36}	14.7	X	135.71743	308.84973	9.48065	10.97858	0.1038989	0.18168032	3.0874324	21	—	—
196658 2003 SJ_{37}	15.7	X	57.71080	31.48909	268.03210	7.60066	0.1045797	0.22376835	2.6870162	21	10 26.0	19.4
196659 2003 SR_{38}	15.4	X	243.68279	99.63496	291.03141	5.02677	0.0832778	0.20683558	2.8317346	21	6 13.1	19.6
196660 2003 SQ_{40}	14.8	X	7.87154	115.23452	343.76687	10.41128	0.0357403	0.18007670	3.1057347	21	—	—
196661 2003 SL_{41}	14.6	X	351.45180	111.15125	351.88439	26.31990	0.1968620	0.17430765	3.1738891	21	—	—
196662 2003 SO_{43}	15.6	X	219.81246	8.77175	320.16602	6.14476	0.0731952	0.19765775	2.9187271	21	3 1.6	20.0
196663 2003 SL_{44}	15.5	X	288.65175	52.69675	313.64043	4.46598	0.1134042	0.21132995	2.7914425	21	7 4.4	19.3
196664 2003 SD_{46}	15.6	X	215.22338	295.38827	93.43604	3.17975	0.0832719	0.20347308	2.8628466	21	5 10.7	19.9
196665 2003 SJ_{46}	15.3	X	254.01164	148.26228	169.00791	9.40590	0.0960233	0.19983098	2.8975271	21	3 23.9	19.6
196666 2003 SF_{47}	16.0	X	359.02171	117.25810	292.11907	3.34037	0.1661360	0.22697545	2.6616449	21	—	—
196667 2003 SN_{50}	15.9	X	252.39245	179.52867	295.40053	5.32033	0.0190989	0.22398046	2.6853194	21	10 20.7	19.7
196668 2003 SW_{50}	15.6	X	220.55698	328.08075	184.84943	14.70810	0.0386438	0.22325150	2.6911617	21	10 31.1	19.4
196669 2003 SK_{51}	15.3	X	220.48391	229.57713	178.13314	16.99522	0.0787766	0.20592647	2.8400627	21	6 10.1	19.9
196670 2003 ST_{52}	15.3	X	48.84033	125.77574	263.29149	3.47018	0.1694377	0.17590008	3.1547045	21	—	—
196671 2003 SU_{53}	16.0	X	78.15324	4.46957	192.39805	8.78907	0.0849199	0.21047080	2.7990339	21	7 6.2	19.9
196672 2003 SY_{54}	15.1	X	184.55557	63.23449	325.26732	9.49708	0.1232547	0.19844644	2.9109886	21	4 3.9	19.9
196673 2003 SZ_{54}	15.7	X	236.42611	177.08523	254.28686	5.86481	0.1141194	0.21167169	2.7884372	21	7 22.9	19.9
196674 2003 SR_{56}	15.9	X	352.34795	31.22748	322.74920	5.31206	0.0266198	0.22027829	2.7153236	21	9 26.9	19.4
196675 2003 SV_{56}	15.9	X	33.99338	270.21274	345.88999	14.67153	0.0982244	0.21314149	2.7756033	21	7 30.1	19.4
196676 2003 SQ_{59}	15.8	X	259.12595	75.59003	350.90099	9.70837	0.2448202	0.21411134	2.7672153	21	7 30.3	20.0
196677 2003 ST_{60}	15.5	X	142.97374	188.94031	305.06295	2.87757	0.0318207	0.20865414	2.8152570	21	6 30.1	19.4
196678 2003 SD_{61}	15.8	X	344.40161	298.44601	58.83010	3.59665	0.1963119	0.21974604	2.7197064	21	9 25.7	18.1
196679 2003 SP_{61}	15.1	X	114.40099	176.24696	153.69771	11.23805	0.0412754	0.18044744	3.1014794	21	—	—
196680 2003 SB_{63}	15.6	X	252.91865	77.12697	273.86099	5.70670	0.0888067	0.20505481	2.8481055	21	5 1.5	19.8
196681 2003 SZ_{63}	16.1	X	269.72817	1.96386	329.61828	1.29188	0.0965750	0.20449205	2.8533284	21	4 26.7	20.0
196682 2003 SK_{64}	15.1	X	253.24313	293.44858	12.88093	12.11734	0.0348584	0.19644471	2.9307301	21	3 17.7	19.2
196683 2003 SY_{64}	15.3	X	164.82632	358.52056	9.28280	12.45591	0.1385076	0.19183631	2.9774800	21	3 1.3	20.0
196684 2003 SZ_{64}	15.8	X	139.50790	171.40095	183.66101	5.76305	0.2811620	0.18634903	3.0356471	21	1 30.4	20.8
196685 2003 SB_{65}	15.9	X	261.39039	340.27480	358.55162	1.70523	0.0760075	0.20281762	2.8690113	21	4 28.8	19.9
196686 2003 SC_{65}	15.5	X	2.69000	307.00515	4.63645	5.57208	0.1574133	0.21551335	2.7552008	21	8 25.2	18.2
196687 2003 SH_{65}	15.4	X	304.02831	15.94255	289.17537	10.45838	0.0199731	0.20658539	2.8340205	21	5 16.0	19.4
196688 2003 SQ_{66}	15.7	X	222.03531	112.74832	338.75715	15.32762	0.1448493	0.21144989	2.7903868	21	8 4.5	20.1
196689 2003 SY_{67}	15.6	X	111.42471	59.94319	203.81434	13.68532	0.0676078	0.22559407	2.6724992	21	11 12.7	19.5
196690 2003 SD_{70}	16.1	X	178.34867	9.14201	21.18612	1.14394	0.1869552	0.19696118	2.9256046	21	4 6.8	20.8
196691 2003 SO_{70}	15.7	X	323.16361	285.86296	45.18809	9.73558	0.1706026	0.21478967	2.7613860	21	7 1.3	18.9
196692 2003 SE_{71}	16.1	X	281.26442	217.27259	211.59106	12.56334	0.1683672	0.21753944	2.7380668	21	9 4.0	19.7
196693 2003 SX_{73}	15.3	X	94.39940	15.98777	358.42585	11.74726	0.1776477	0.18167678	3.0874725	21	—	—
196694 2003 SD_{74}	16.4	X	48.04786	142.89848	285.08862	3.12113	0.1286185	0.23720408	2.5845679	21	—	—
196695 2003 SL_{74}	15.5	X	46.44981	131.34008	275.68477	2.07072	0.0998596	0.17909605	3.1170616	21	—	—
196696 2003 SK_{75}	15.7	X	258.39100	69.96762	358.94537	6.97034	0.1972405	0.21291001	2.7776146	21	8 7.1	19.7
196697 2003 SY_{76}	16.6	X	33.51826	144.69526	161.13524	2.45856	0.0925351	0.22226542	2.6991154	21	10 1.9	20.0
196698 2003 SV_{77}	15.8	X	225.99070	126.91031	335.69774	14.56070	0.1673843	0.21327173	2.7744731	21	8 18.5	20.1
196699 2003 SX_{78}	15.3	X	134.72050	77.16295	257.13570	8.44103	0.1685386	0.18323134	3.0699847	21	—	—
196700 2003 SX_{80}	15.9	X	231.89576	120.35380	154.66630	2.64273	0.0761055	0.18720413	3.0263961	21	1 11.7	20.5
196701 2003 SC_{82}	16.3	X	160.77648	244.96252	168.63998	5.90631	0.1468905	0.19723530	2.9228932	21	4 18.8	20.9
196702 2003 SS_{82}	15.9	X	141.38560	246.23638	179.99872	5.98055	0.0815118	0.19669443	2.9282491	21	4 8.2	20.1
196703 2003 SR_{83}	16.1	X	35.54207	246.23022	44.84071	2.76202	0.0373410	0.21638198	2.7478224	21	9 7.7	19.6
196704 2003 SM_{85}	15.5	X	248.26407	145.85602	298.79851	12.47271	0.1152419	0.21511776	2.7585776	21	8 20.6	19.6
196705 2003 SC_{86}	15.1	X	114.29887	14.19787	8.58491	10.70475	0.0676406	0.18450848	3.0558017	21	1 15.9	19.6
196706 2003 SS_{87}	15.4	X	286.14504	171.66542	209.70012	13.49950	0.1950388	0.21083368	2.7958212	21	7 5.6	19.4
196707 2003 SB_{89}	15.5	X	268.13268	82.74945	300.37115	7.77908	0.1561652	0.21227469	2.7831540	21	6 23.3	19.6
196708 2003 SC_{92}	16.3	X	296.36422	46.79276	3.02386	3.85687	0.1180514	0.21792257	2.7348567	21	9 13.8	19.4
196709 2003 SH_{93}	15.5	X	203.54354	22.38558	341.80276	3.84879	0.1486992	0.19612898	2.9338746	21	3 27.1	20.1
196710 2003 SH_{94}	15.1	X	143.94537	140.03467	232.66328	8.00629	0.1270097	0.18897071	3.0075052	21	2 7.1	19.7
196711 2003 SS_{97}	16.5	X	217.85446	352.16731	62.51110	1.20815	0.0674332	0.20918242	2.8105151	21	6 15.6	20.4
196712 2003 SO_{98}	15.4	X	62.21205	71.01074	316.59830	7.95438	0.1605151	0.17838276	3.1253653	21	—	—
196713 2003 SJ_{101}	15.2	X	40.36096	121.26390	321.73583	17.61595	0.1613296	0.18269947	3.0759400	21	—	—
196714 2003 SM_{102}	15.0	X	131.94992	181.45397	229.09534	8.70389	0.0708831	0.19357359	2.9596384	21	3 3.8	19.4
196715 2003 SQ_{102}	15.2	X	147.49393	184.43322	246.29821	5.16841	0.1163010	0.19827095	2.9127061	21	4 21.6	19.7
196716 2003 SJ_{103}	15.0	X	45.98037	198.64079	199.13665	9.68703	0.1040861	0.17698028	3.1418550	21	—	—
196717 2003 SL_{104}	15.9	X	188.79270	150.56901	189.13651	13.65398	0.1270564	0.19180638	2.9777896	21	2 11.4	20.8
196718 2003 SW_{104}	15.2	X	180.79581	58.29376	8.69597	11.97206	0.0269010	0.20185966	2.8780811	21	5 16.3	19.4
196719 2003 SM_{107}	15.1	X	276.34124	30.76974	262.12186	3.77341	0.1256967	0.19838450	2.9115945	21	3 12.4	19.5
196720 2003 SB_{108}	15.4	X	336.79180	119.64869	244.83779	8.55513	0.0429313	0.21636377	2.7479765	21	9 16.2	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196721 2003 SM_{109}	14.9	X	141.98738	66.84715	215.79806	18.01269	0.1384496	0.17646664	3.1479486	21	12 27.2	20.3
196722 2003 SV_{109}	15.0	X	88.81505	17.66923	347.31540	10.13663	0.0859722	0.17865608	3.1221770	21	—	—
196723 2003 SB_{111}	14.8	X	102.04625	344.88625	10.85900	12.39132	0.1421386	0.17846920	3.1243561	21	—	—
196724 2003 SD_{114}	15.0	X	138.50910	349.52473	38.36927	11.29576	0.0841563	0.19309354	2.9645417	21	2 22.6	19.5
196725 2003 SY_{115}	15.2	X	308.19610	126.97263	251.92108	13.90863	0.2136592	0.21641314	2.7475586	21	7 30.8	18.6
196726 2003 SB_{118}	16.2	X	138.56217	60.92274	339.21710	13.50240	0.2778633	0.19088627	2.9873510	21	3 19.6	21.2
196727 2003 SB_{119}	15.5	X	314.23569	54.86514	291.46553	5.43981	0.0574848	0.21131402	2.7915827	21	7 22.2	19.1
196728 2003 SH_{119}	16.0	X	266.58132	218.31749	202.69988	13.40763	0.2376248	0.21432695	2.7653591	21	7 25.9	20.3
196729 2003 SU_{119}	16.2	X	328.33484	348.28911	348.71620	3.28077	0.1007612	0.21424774	2.7660406	21	7 28.3	19.3
196730 2003 SG_{120}	15.8	X	345.19064	294.10402	31.26671	2.03996	0.0322495	0.21472005	2.7619829	21	8 11.6	19.4
196731 2003 SP_{121}	16.2	X	211.90497	4.84736	309.94874	4.29078	0.0501818	0.19329396	2.9624920	21	2 6.3	20.4
196732 2003 ST_{121}	15.3	X	82.00245	275.82118	315.91230	11.06698	0.0852401	0.21779253	2.7359452	21	8 26.4	19.0
196733 2003 SA_{122}	16.2	X	236.17942	105.56477	308.55454	6.44631	0.1703044	0.21025901	2.8009131	21	6 26.5	20.5
196734 2003 SM_{125}	15.8	X	100.78071	113.27753	338.45810	7.88959	0.0937504	0.19244405	2.9712080	21	3 22.2	19.9
196735 2003 SG_{126}	14.5	X	140.73586	290.48431	347.91947	17.09636	0.0661228	0.17320327	3.1873665	21	12 22.4	19.6
196736 Munkácsy	16.5	X	304.50538	322.49930	42.71558	2.57759	0.0589543	0.21421855	2.7662919	21	8 3.9	20.1
196737 2003 SX_{127}	15.7	X	114.96508	0.18505	2.29455	10.28306	0.0731285	0.18293248	3.0733274	21	—	—
196738 2003 SC_{133}	15.2	X	136.54557	108.54521	205.21906	14.64798	0.1923174	0.17903157	3.1178099	21	—	—
196739 2003 SZ_{133}	15.4	X	298.44974	248.62587	51.41343	2.77789	0.0373513	0.20349344	2.8626557	21	5 1.9	19.3
196740 2003 SF_{135}	15.3	X	263.73750	63.39958	214.57405	9.64508	0.0708168	0.19689373	2.9262727	21	2 13.4	19.8
196741 2003 SJ_{137}	16.1	X	56.45014	62.92552	297.29883	2.38387	0.1012682	0.22771967	2.6558427	21	—	—
196742 2003 SO_{137}	15.9	X	272.66703	187.65687	214.42113	1.33401	0.0787832	0.21079874	2.7961301	21	8 4.2	19.5
196743 2003 SY_{137}	14.4	X	51.06228	190.04975	214.38335	15.58295	0.1247068	0.17694488	3.1422740	21	—	—
196744 2003 SU_{139}	15.6	X	108.78146	217.34472	191.63116	10.68868	0.1056729	0.18904917	3.0066730	21	2 8.9	19.9
196745 2003 SY_{139}	15.7	X	185.40651	175.49102	229.27944	1.12372	0.0752661	0.20066356	2.8895067	21	4 27.9	19.9
196746 2003 SU_{142}	14.7	X	154.39423	333.64239	45.47432	16.06244	0.1481507	0.18975354	2.9992278	21	3 10.3	19.7
196747 2003 SY_{143}	15.9	X	321.65967	65.04898	290.01502	3.23614	0.1529040	0.21351027	2.7724062	21	8 4.3	18.7
196748 2003 SB_{144}	15.5	X	31.04885	244.32660	270.51463	8.35801	0.0806513	0.19121137	2.9839640	21	2 28.1	19.4
196749 2003 SF_{144}	15.0	X	161.38420	5.95950	325.53502	21.80567	0.1089550	0.18659055	3.0330271	21	1 14.2	19.8
196750 2003 SR_{148}	15.6	X	166.31427	109.74732	254.62152	3.09398	0.1148638	0.19050957	2.9912877	21	2 20.0	20.3
196751 2003 SL_{149}	16.0	X	288.99579	317.95849	37.86933	4.80171	0.1200995	0.20880698	2.8138830	21	6 18.9	19.7
196752 2003 SO_{149}	15.8	X	190.30001	222.43927	147.27933	2.75047	0.0845093	0.19510883	2.9440924	21	3 22.5	20.3
196753 2003 SV_{149}	15.1	X	200.51213	225.42754	138.01707	9.92763	0.0251997	0.19810723	2.9143106	21	3 27.6	19.3
196754 2003 SM_{151}	15.8	X	292.29497	286.58521	96.90895	6.54006	0.0996419	0.21403133	2.7679048	21	8 5.4	19.3
196755 2003 SQ_{153}	15.4	X	154.86297	148.54302	136.35019	10.13244	0.1256037	0.18040984	3.1019103	21	—	—
196756 2003 SU_{154}	18.1	X	288.02305	111.03811	0.67208	20.85079	0.0827367	0.39107160	1.8519611	21	—	—
196757 2003 SZ_{154}	15.8	X	343.54329	23.74433	322.16608	5.34069	0.0473949	0.21528708	2.7571310	21	9 4.0	19.1
196758 2003 SP_{155}	15.0	X	13.72535	156.74814	277.60417	2.19487	0.1450290	0.17622289	3.1508507	21	—	—
196759 2003 SM_{156}	15.1	X	229.43111	80.98517	193.10839	9.98441	0.0771738	0.18793677	3.0185257	21	1 6.9	19.8
196760 2003 SO_{160}	15.5	X	248.82790	358.57098	50.31922	8.13592	0.0854192	0.21086336	2.7955588	21	7 14.2	19.6
196761 2003 SL_{162}	15.4	X	30.39115	101.90736	280.76979	0.96464	0.1766781	0.17125350	3.2115135	21	—	—
196762 2003 SP_{162}	15.1	X	13.00041	235.79970	182.33763	16.45261	0.1157438	0.17344497	3.1844046	21	—	—
196763 2003 ST_{162}	16.1	X	103.68513	172.29569	175.43168	0.98880	0.1734009	0.17843092	3.1248029	21	—	—
196764 2003 SU_{162}	15.7	X	199.51193	151.21223	193.64172	8.87297	0.1078233	0.19281716	2.9673739	21	2 27.8	20.4
196765 2003 SM_{163}	15.5	X	355.30324	287.12101	31.85404	6.74000	0.0675269	0.21258879	2.7804119	21	8 20.4	19.0
196766 2003 SN_{163}	15.7	X	346.45086	268.18839	44.85296	4.46710	0.0928254	0.21085694	2.7956156	21	7 26.1	18.9
196767 2003 SQ_{164}	15.7	X	282.84679	334.08266	43.40202	5.98042	0.1702855	0.20992726	2.8038632	21	7 2.4	19.6
196768 2003 ST_{164}	14.8	X	20.26786	330.43406	71.86587	3.51792	0.1633951	0.17222410	3.1994360	21	—	—
196769 2003 SX_{164}	15.9	X	144.18032	250.42026	88.29268	2.82094	0.1161119	0.18327660	3.0694793	21	1 1.4	20.4
196770 2003 SK_{167}	15.6	X	24.79964	243.36106	45.67752	5.93856	0.0388225	0.21460705	2.7629524	21	8 22.3	19.2
196771 2003 SU_{169}	16.1	X	301.43417	290.72240	58.87655	0.69874	0.0833109	0.21079880	2.7961295	21	7 4.4	19.8
196772 Fritzleiber	16.0	X	231.26641	185.63456	200.53462	1.31921	0.0763310	0.20565465	2.8425647	21	5 24.9	20.2
196773 2003 SJ_{171}	15.7	X	127.88016	351.05971	28.20855	7.28839	0.1570269	0.18766032	3.0214894	21	2 7.6	20.2
196774 2003 SW_{177}	15.8	X	228.17320	149.86246	295.06640	3.11570	0.0724187	0.21297422	2.7770563	21	8 5.6	19.6
196775 2003 SA_{178}	15.4	X	111.80526	100.80023	331.54067	7.20599	0.0726038	0.19230012	2.9726903	21	3 9.4	19.5
196776 2003 SV_{180}	16.1	X	250.45359	162.47023	187.66187	1.85881	0.0768644	0.20672090	2.8327818	21	4 30.9	20.2
196777 2003 SE_{181}	15.9	X	314.18306	353.14803	351.54192	2.29713	0.1214675	0.21204986	2.7851209	21	7 12.3	19.3
196778 2003 SM_{181}	15.5	X	264.91848	31.14757	269.03252	0.96103	0.0730438	0.19804136	2.9149568	21	3 16.3	19.8
196779 2003 SN_{181}	16.3	X	180.75301	102.10212	206.80472	9.73916	0.2603889	0.18794298	3.0184592	21	1 7.7	21.7
196780 2003 SD_{182}	15.4	X	292.67318	299.98215	102.15696	8.81830	0.2297153	0.21173219	2.7879060	21	8 11.1	18.9
196781 2003 SA_{184}	15.7	X	314.39532	233.48360	356.47477	3.45984	0.0300399	0.19366039	2.9587539	21	2 25.1	19.6
196782 2003 ST_{184}	15.9	X	155.45394	352.78010	47.22953	2.61902	0.0948499	0.19471102	2.9481010	21	3 23.9	20.3
196783 2003 SY_{184}	15.6	X	261.20542	280.03314	28.20443	6.12408	0.0522724	0.19819599	2.9134404	21	3 26.3	19.8
196784 2003 SN_{185}	15.4	X	245.43564	85.57428	322.57926	10.97669	0.1381160	0.21277680	2.7787739	21	7 3.1	19.7
196785 2003 SR_{186}	15.8	X	259.39971	198.27142	232.02089	8.35483	0.1367868	0.21344602	2.7729625	21	8 12.6	19.9
196786 2003 SP_{187}	14.9	X	115.72159	255.76323	63.73017	9.58189	0.1350032	0.17986241	3.1082011	21	—	—
196787 2003 SY_{187}	15.4	X	356.70729	291.25321	352.60546	13.86265	0.0485968	0.21145805	2.7903150	21	7 3.6	19.2
196788 2003 SF_{188}	15.5	X	276.17219	23.10565	51.23596	10.32853	0.1688248	0.21650882	2.7467491	21	9 14.0	19.2
196789 2003 SA_{189}	16.0	X	352.01407	277.70558	56.99102	2.08447	0.0842366	0.21625985	2.7488568	21	9 4.5	19.1
196790 2003 SY_{190}	16.2	X	321.95013	154.94913	172.17255	4.38421	0.0644258	0.21073480	2.7966956	21	7 6.3	19.7
196791 2003 SM_{191}	15.2	X	50.54316	165.24496	240.28532	8.33840	0.0427658	0.18062960	3.0993939	21	—	—
196792 2003 SA_{196}	14.8	X	143.49581	89.96026	213.51167	22.29340	0.1312881	0.17860231	3.1228036	21	—	—
196793 2003 SL_{196}	15.2	X	144.97497	86.87912	8.62643	9.42992	0.0088208	0.19963935	2.8993810	21	5 8.1	19.3
196794 2003 SK_{197}	15.5	X	161.35685	148.42670	176.61801	9.99322	0.0986888	0.18582413	3.0413610	21	—	—
196795 2003 SM_{197}	15.3	X	78.34470	243.32743	176.60436	8.50701	0.0773028	0.18581087	3.0415057	21	1 12.1	19.4
196796 2003 SU_{197}	15.1	X	301.87596	346.94145	169.98410	9.60095	0.0532940	0.18009787	3.1054914	21	—	—
196797 2003 SU_{198}	15.3	X	212.23309	334.59739	339.37580	9.92154	0.0545457	0.18929534	3.0040658	21	2 8.3	19.7
196798 2003 SG_{199}	14.8	X	237.37306	69.52362	238.07767	9.18088	0.0772485	0.19279441	2.9676073	21	2 20.0	19.5
196799 2003 SO_{199}	15.3	X	195.98248	319.96075	5.01213	5.32328	0.1412421	0.18926880	3.0043466	21	2 5.9	20.1
196800 2003 SX_{200}	15.2	X	65.48276	97.11667	314.81866	15.52953	0.2223564	0.18122407	3.0926122	21	1 4.3	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196801 2003 SY_{202}	16.2	X	331.02624	117.55103	180.92610	4.21126	0.1060170	0.20967469	2.8061144	21	6 7.1	19.5
196802 2003 SJ_{204}	14.4	X	83.71289	324.41020	41.47911	17.30053	0.1476122	0.17513423	3.1638947	21	—	—
196803 2003 SG_{206}	15.1	X	352.19681	223.61429	232.86085	8.32675	0.0856901	0.18096554	3.0955569	21	—	—
196804 2003 SZ_{208}	15.4	X	314.96462	9.76311	288.92459	7.21690	0.2059865	0.21174495	2.7877940	21	4 23.2	19.1
196805 2003 SZ_{209}	15.3	X	86.48910	34.92497	346.93548	4.93268	0.1445868	0.17945338	3.1129223	21	—	—
196806 2003 SQ_{218}	15.2	X	162.93921	154.39680	223.02088	9.92465	0.1046824	0.18884502	3.0088395	21	3 1.3	20.0
196807 Beshore	15.2	X	189.25528	293.03762	38.91613	11.03066	0.0916723	0.18670070	3.0318340	21	2 9.7	20.0
196808 2003 SH_{223}	15.8	X	194.99226	308.73456	49.86646	10.33929	0.0505313	0.19148070	2.9811653	21	3 18.2	20.3
196809 2003 SU_{223}	14.6	X	110.69627	136.27043	223.91188	26.33889	0.1618270	0.17903131	3.1178129	21	—	—
196810 2003 SC_{224}	16.9	X	16.98268	159.33216	275.29824	2.26001	0.0932094	0.23381433	2.6094880	21	—	—
196811 2003 SF_{225}	15.3	X	170.63706	186.54708	196.91774	9.55874	0.0273380	0.19350060	2.9603825	21	3 12.9	19.6
196812 2003 SH_{225}	15.8	X	296.08814	333.35993	22.63704	2.92682	0.1264711	0.20976992	2.8052651	21	6 28.7	19.4
196813 2003 SO_{225}	16.2	X	155.35663	324.58849	55.15684	2.70990	0.2565664	0.19125449	2.9835154	21	3 12.1	21.2
196814 2003 SU_{225}	14.7	X	142.42747	118.81262	198.56012	9.32684	0.0700744	0.17881199	3.1203619	21	—	—
196815 2003 SN_{227}	15.0	X	172.42699	72.04253	239.23742	3.99754	0.1399548	0.18450201	3.0558730	21	—	—
196816 2003 SH_{229}	15.9	X	194.90314	231.26945	95.74023	2.39134	0.1814742	0.19006373	2.9959637	21	2 7.0	20.8
196817 2003 SZ_{230}	15.5	X	55.24206	239.58379	14.45023	14.31617	0.1128780	0.21654174	2.7464706	21	9 1.7	19.2
196818 2003 SJ_{231}	15.1	X	338.23639	355.65376	166.27846	18.70207	0.0617227	0.18772343	3.0208123	21	—	—
196819 2003 SC_{232}	16.1	X	253.00735	179.43474	167.26357	14.04525	0.1922886	0.20374298	2.8603177	21	4 20.9	20.8
196820 2003 SR_{232}	15.1	X	211.87096	148.09850	165.98105	10.24990	0.0859941	0.19004230	2.9961889	21	2 4.6	19.9
196821 2003 SC_{233}	15.6	X	47.44925	237.75527	36.48118	10.94054	0.1149884	0.21639144	2.7477423	21	9 17.1	19.2
196822 2003 SM_{234}	15.6	X	130.50263	21.68723	6.56345	12.07498	0.1377593	0.19079520	2.9883016	21	2 19.6	20.1
196823 2003 SN_{234}	15.8	X	263.62677	20.63270	71.12659	4.46461	0.1645210	0.21691316	2.7433346	21	9 17.6	19.5
196824 2003 SS_{235}	15.5	X	260.46248	101.34519	355.23425	11.16746	0.1283956	0.21733041	2.7398223	21	9 22.2	19.3
196825 2003 SV_{235}	15.2	X	207.59121	20.04639	233.05991	6.01874	0.0434415	0.18081045	3.0973268	21	—	—
196826 2003 SJ_{236}	16.3	X	300.77665	151.42980	191.76461	6.12743	0.0624121	0.21043805	2.7993242	21	6 27.3	20.0
196827 2003 SO_{236}	16.2	X	195.72567	175.66816	182.65470	10.77041	0.1521644	0.19643357	2.9308409	21	3 13.5	21.0
196828 2003 SB_{237}	15.8	X	119.61087	11.85192	3.79228	5.25696	0.0738283	0.18623180	3.0369210	21	1 12.6	20.1
196829 2003 SE_{238}	16.2	X	25.66852	115.00517	217.95821	5.03944	0.1268137	0.22470367	2.6795546	21	10 31.4	19.4
196830 2003 SK_{241}	16.8	X	163.57953	141.77251	14.89913	3.42192	0.0301354	0.21403157	2.7679027	21	8 25.9	20.6
196831 2003 SA_{243}	16.2	X	227.86064	299.17831	55.73735	2.84479	0.1039133	0.20040533	2.8919883	21	4 10.9	20.6
196832 2003 SA_{246}	15.8	X	96.11814	140.36614	63.15726	1.25585	0.0103140	0.21184143	2.7869475	21	7 29.5	19.5
196833 2003 SS_{247}	15.7	X	204.68150	128.45201	191.13684	9.66309	0.1287976	0.19113147	2.9847955	21	2 3.1	20.7
196834 2003 SZ_{247}	15.7	X	234.10482	200.78506	175.96386	2.08790	0.0837774	0.20469986	2.8513969	21	5 15.7	20.0
196835 2003 SS_{248}	15.6	X	277.58594	210.55363	51.98587	2.61179	0.0507136	0.19441848	2.9510576	21	2 17.8	19.7
196836 2003 SY_{248}	15.9	X	295.02490	197.95418	161.10172	4.11078	0.1091880	0.21003830	2.8028749	21	7 3.6	19.6
196837 2003 SX_{249}	15.1	X	82.32910	58.00910	20.56404	9.10125	0.1297247	0.18563072	3.0434732	21	2 21.5	19.1
196838 2003 SE_{250}	15.0	X	191.46023	298.07896	26.27549	11.46663	0.0915252	0.18693326	3.0293189	21	2 2.7	19.8
196839 2003 SG_{250}	14.9	X	89.68660	10.24229	30.81331	8.18936	0.1492549	0.18180514	3.0860191	21	1 18.0	19.0
196840 2003 SM_{253}	16.2	X	21.00435	303.20808	12.40240	5.16840	0.1135065	0.22006513	2.7170767	21	9 28.2	19.3
196841 2003 SO_{253}	15.5	X	106.75684	6.15432	193.55580	9.81893	0.0462592	0.21306163	2.7762967	21	8 9.2	19.5
196842 2003 SZ_{253}	16.2	X	49.14401	253.38247	225.98150	2.27161	0.0563934	0.24542985	2.5264912	21	1 31.2	19.2
196843 2003 SD_{254}	15.4	X	227.54682	318.02511	313.94356	8.00896	0.1864991	0.18654789	3.0334895	21	1 2.4	20.5
196844 2003 SR_{254}	15.5	X	268.57482	269.81649	7.95199	1.98940	0.0997839	0.19544982	2.9406671	21	2 19.6	19.8
196845 2003 SE_{257}	16.1	X	250.73042	137.15031	166.61049	10.77838	0.1505783	0.19913651	2.9042598	21	2 26.3	20.6
196846 2003 SR_{257}	16.0	X	238.12811	279.57007	101.53081	2.19776	0.0539639	0.20488311	2.8496965	21	5 28.7	20.0
196847 2003 SM_{258}	15.8	X	228.47593	245.75303	189.69045	2.22057	0.1115318	0.20858212	2.8159050	21	7 20.3	20.0
196848 2003 SQ_{259}	15.7	X	95.21996	317.47018	108.45131	2.22770	0.2574685	0.18561927	3.0435984	21	3 10.7	19.8
196849 2003 ST_{259}	15.4	X	71.30391	22.04361	32.21044	9.63066	0.1488319	0.18128078	3.0919672	21	1 6.8	19.3
196850 2003 SE_{260}	14.7	X	15.38903	235.32416	219.55822	25.41634	0.1883810	0.17538234	3.1609101	21	—	—
196851 2003 SB_{261}	15.8	X	321.44215	140.64598	235.91908	5.80626	0.1336812	0.21792893	2.7348035	21	9 4.1	18.9
196852 2003 SR_{262}	15.8	X	183.06784	309.28628	119.82844	3.16909	0.0485337	0.20368037	2.8609039	21	5 26.4	19.9
196853 2003 SF_{263}	14.9	X	11.31814	78.41707	44.64952	9.80255	0.0748301	0.18496727	3.0507465	21	—	—
196854 2003 SW_{266}	15.9	X	193.07419	232.71717	110.14985	1.72319	0.1254836	0.19267620	2.9688209	21	2 22.2	20.6
196855 2003 SZ_{266}	15.5	X	156.82881	317.23650	6.99414	11.31617	0.1120013	0.18411241	3.0601826	21	—	—
196856 2003 SF_{268}	15.8	X	354.42175	48.87191	263.74098	2.58296	0.0853247	0.21153352	2.7896513	21	8 5.9	19.0
196857 2003 SL_{268}	16.5	X	228.01388	160.00627	297.89640	1.95106	0.0946043	0.21100009	2.7943510	21	8 19.7	20.6
196858 2003 SB_{269}	16.1	X	279.39255	185.09883	198.84372	4.63020	0.0847586	0.21039494	2.7997066	21	7 18.3	19.9
196859 2003 SF_{271}	15.1	X	102.64889	229.56331	133.19763	12.09913	0.0891380	0.17967653	3.1103445	21	—	—
196860 2003 SG_{272}	15.4	X	82.49577	27.67406	208.70159	12.68807	0.0656817	0.21576538	2.7530549	21	8 28.2	19.4
196861 2003 SL_{272}	15.2	X	149.72154	82.80292	277.65366	4.47539	0.0709713	0.18798841	3.0179728	21	1 26.3	19.5
196862 2003 SC_{273}	14.9	X	58.97151	74.86031	358.12265	10.37712	0.0590272	0.18207671	3.0829498	21	1 3.6	19.1
196863 2003 SX_{277}	16.0	X	141.13338	78.24772	327.48965	9.11366	0.1061851	0.19234169	2.9722620	21	3 13.5	20.5
196864 2003 SL_{278}	15.3	X	193.57394	43.86567	336.15839	8.97146	0.0633140	0.19637129	2.9314605	21	4 2.9	19.8
196865 2003 ST_{278}	14.5	X	128.71408	37.02331	234.27987	16.24965	0.0962648	0.17070509	3.2183881	21	12 2.3	19.4
196866 2003 SY_{280}	16.0	X	76.83591	296.75950	270.43758	2.38533	0.0311512	0.20960424	2.8067432	21	7 11.1	19.8
196867 2003 SF_{282}	15.7	X	111.60684	228.64886	214.44929	11.00551	0.1200293	0.19241672	2.9714893	21	3 28.4	19.9
196868 2003 SG_{282}	15.6	X	338.37934	107.62660	194.08191	7.86064	0.0900448	0.20886357	2.8133748	21	6 24.6	19.2
196869 2003 ST_{284}	15.8	X	176.20631	348.59317	10.91569	11.11770	0.1038529	0.19215483	2.9741887	21	2 28.1	20.4
196870 2003 SC_{289}	15.0	X	232.63933	257.28094	40.19381	11.42265	0.0621876	0.19206689	2.9750964	21	2 12.9	19.6
196871 2003 SY_{289}	15.8	X	259.39988	324.45434	91.67053	5.42358	0.0860464	0.21226629	2.7832275	21	8 6.1	19.6
196872 2003 SS_{292}	15.1	X	32.27635	184.17495	259.69441	8.16418	0.1299300	0.18075187	3.0979960	21	—	—
196873 2003 SB_{293}	15.3	X	240.56709	3.87805	341.20014	9.60375	0.1118349	0.20135468	2.8828911	21	4 6.9	19.8
196874 2003 SD_{294}	16.8	X	288.25613	315.03067	34.37033	22.04723	0.1021769	0.37256305	1.9127999	21	5 29.5	19.0
196875 2003 SN_{298}	15.6	X	293.34311	86.04050	195.58429	11.34389	0.1358673	0.20083936	2.8878203	21	3 16.9	19.9
196876 2003 SW_{299}	15.5	X	169.83563	172.09914	191.10132	9.13185	0.0227963	0.19061313	2.9902041	21	2 14.7	20.0
196877 2003 SJ_{300}	15.2	X	189.49694	182.67688	295.31764	7.89435	0.1109192	0.21158743	2.7891774	21	8 2.1	19.6
196878 2003 SW_{304}	15.2	X	128.98905	300.64165	0.48787	10.45762	0.1368277	0.17654960	3.1469624	21	—	—
196879 2003 SE_{306}	15.4	X	177.92363	331.54409	337.85931	7.61572	0.2145975	0.18440796	3.0569120	21	1 7.2	20.6
196880 2003 SY_{307}	15.2	X	146.96210	326.47114	329.32673	9.37973	0.0244173	0.17939286	3.1136225	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196881 2003 SN_{308}	15.1	X	126.63786	58.87030	298.87713	15.11729	0.1212406	0.18310799	3.0713633	21	1 6.4	19.5
196882 2003 SX_{309}	15.6	X	49.21908	185.85786	65.76998	3.92694	0.0310796	0.21175639	2.7876936	21	8 3.5	19.3
196883 2003 SK_{311}	15.9	X	126.99306	346.38641	79.62995	1.55987	0.1490424	0.19303875	2.9651026	21	3 31.0	20.3
196884 2003 SE_{312}	15.3	X	81.25918	23.40596	112.90673	3.16365	0.0618637	0.19796455	2.9157107	21	4 20.7	19.2
196885 2003 SP_{314}	16.1	X	277.05743	193.26508	100.42853	3.63829	0.1793668	0.20058120	2.8902976	21	3 11.4	20.4
196886 2003 SF_{317}	15.8	X	318.27101	208.22507	77.97262	3.20268	0.0266520	0.20325512	2.8648928	21	5 12.3	19.6
196887 2003 SE_{320}	15.6	X	44.85453	297.39073	194.23228	5.66378	0.1975635	0.19116050	2.9844933	21	3 2.8	18.8
196888 2003 SM_{320}	15.3	X	163.50283	138.14628	192.20322	7.12356	0.0062017	0.18610715	3.0382769	21	—	—
196889 2003 SQ_{321}	15.8	X	106.39565	90.33702	302.53040	5.03787	0.1423708	0.18500310	3.0503526	21	1 25.9	20.1
196890 2003 SK_{322}	16.0	X	37.58964	136.36936	89.49060	3.20674	0.0108711	0.20303683	2.8669459	21	6 10.1	19.8
196891 2003 SK_{329}	16.7	X	80.35231	113.05649	179.94966	4.41714	0.2219898	0.22652685	2.6651578	21	11 30.3	20.9
196892 2003 SJ_{347}	16.6	X	98.71350	98.32202	177.32877	2.89651	0.1128327	0.22597535	2.6694923	21	11 17.1	20.5
196893 2003 TS	15.7	X	193.79954	2.18792	343.21106	9.77400	0.0976436	0.19187928	2.9770354	21	2 25.5	20.2
196894 2003 TL_{3}	16.1	X	245.06541	260.73012	107.45149	3.27393	0.1096257	0.20384074	2.8594032	21	5 15.0	20.4
196895 2003 TM_{3}	15.3	X	173.58222	175.31533	180.41705	14.45799	0.1414105	0.19094712	2.9867163	21	2 17.5	20.2
196896 2003 TA_{5}	14.9	X	160.20611	88.60863	222.49649	9.48049	0.0738575	0.18163794	3.0879127	21	—	—
196897 2003 TR_{6}	14.8	X	286.67847	255.83571	54.94116	13.72335	0.0665065	0.20306644	2.8666672	21	4 28.5	18.7
196898 2003 TF_{10}	14.7	X	6.30127	146.36124	300.59293	21.63360	0.1989254	0.17373775	3.1808260	21	—	—
196899 2003 TX_{10}	15.7	X	56.99460	23.59815	143.22501	2.60294	0.0012747	0.19841316	2.9113141	21	4 19.8	19.6
196900 2003 TA_{11}	15.3	X	95.73701	287.48493	167.73309	12.78269	0.2512576	0.18856780	3.0117877	21	4 17.1	19.7
196901 2003 TS_{11}	17.1	X	71.67644	52.61097	204.18289	22.39234	0.0761392	0.38157321	1.8825685	21	10 3.1	18.9
196902 2003 TG_{14}	15.1	X	163.98079	54.93290	303.04296	10.53366	0.1706714	0.18853403	3.0121473	21	2 13.6	20.1
196903 2003 TA_{16}	16.1	X	261.10305	330.23809	41.73581	11.45484	0.1580367	0.20669334	2.8330337	21	5 29.4	20.3
196904 2003 TC_{16}	15.4	X	339.89252	243.07276	78.57046	5.39005	0.0661767	0.21159407	2.7891191	21	7 28.3	18.8
196905 2003 TH_{17}	15.8	X	253.70274	168.08876	169.98861	2.66665	0.0591882	0.20068667	2.8892849	21	4 22.2	19.9
196906 2003 TF_{18}	16.1	X	76.36794	127.77928	283.40875	5.26373	0.1044628	0.23874529	2.5734329	21	—	—
196907 2003 TC_{19}	16.1	X	291.44746	145.10463	221.46544	1.33217	0.1114503	0.21084994	2.7956774	21	7 8.5	19.6
196908 2003 TU_{21}	15.6	X	323.35009	108.35660	143.54741	2.46418	0.0345587	0.19878507	2.9076818	21	4 4.3	19.6
196909 2003 TF_{22}	15.6	X	111.17744	359.50967	320.62834	9.84461	0.0648968	0.17630735	3.1498444	21	—	—
196910 2003 TL_{29}	15.4	X	5.80969	188.09234	26.16416	2.41753	0.0615410	0.19819548	2.9134454	21	4 12.0	19.1
196911 2003 TN_{30}	16.4	X	160.13085	332.01918	54.90515	2.82581	0.0905249	0.19271077	2.9684659	21	3 13.3	20.9
196912 2003 TR_{30}	15.9	X	58.64434	302.83438	166.96789	2.68707	0.1725702	0.18691625	3.0295027	21	2 26.4	19.2
196913 2003 TX_{33}	16.4	X	46.37370	144.77529	71.34210	2.98558	0.0167654	0.20449433	2.8533072	21	6 9.4	20.2
196914 2003 TJ_{37}	15.7	X	254.47423	45.02797	49.60509	10.27157	0.1332291	0.21615720	2.7497270	21	9 17.3	19.6
196915 2003 TO_{45}	16.2	X	38.18018	141.65912	316.20795	5.50513	0.1397135	0.18243591	3.0789018	21	1 5.8	19.8
196916 2003 TS_{45}	15.6	X	221.16399	343.47067	295.82087	5.11587	0.0696494	0.18610640	3.0382851	21	1 6.6	20.0
196917 2003 TD_{48}	16.0	X	232.00746	226.81945	236.71209	5.94001	0.2744307	0.21239814	2.7820754	21	8 11.7	20.8
196918 2003 TE_{54}	16.1	X	203.62473	39.07732	78.34151	5.81489	0.0141929	0.21270412	2.7794068	21	8 26.8	19.9
196919 2003 TP_{54}	16.0	X	47.06265	147.81304	151.71687	6.63858	0.0273966	0.21747241	2.7386294	21	10 4.2	19.6
196920 2003 TX_{54}	15.5	X	101.33757	74.88482	58.81865	9.68358	0.1131604	0.19818097	2.9135876	21	5 19.7	19.5
196921 2003 TL_{57}	14.6	X	37.34639	4.86056	22.58600	24.42334	0.0951693	0.17068492	3.2186415	21	—	—
196922 2003 US_{1}	16.0	X	267.23375	123.03907	277.02077	2.54561	0.0985592	0.21065382	2.7974124	21	7 22.4	19.9
196923 2003 UG_{2}	15.9	X	28.91111	310.69988	213.89145	9.94032	0.0600030	0.19280717	2.9674764	21	3 10.0	19.8
196924 2003 UX_{3}	16.0	X	308.76171	197.87588	164.60628	3.79466	0.1211496	0.21217794	2.7840000	21	7 27.4	19.3
196925 2003 UF_{4}	14.7	X	106.65299	122.51382	234.52136	21.94459	0.1560931	0.17936138	3.1139867	21	—	—
196926 2003 UG_{5}	15.7	X	180.32431	355.08411	355.94774	27.68429	0.0445924	0.19118172	2.9842725	21	2 24.9	20.3
196927 2003 UQ_{6}	14.8	X	82.37149	143.42047	231.37048	26.99320	0.1697282	0.17728389	3.1382669	21	—	—
196928 2003 UB_{7}	14.6	X	78.85163	18.95770	335.14557	28.59685	0.1810915	0.17485092	3.1673114	21	—	—
196929 2003 UF_{10}	14.5	X	333.45705	134.18456	3.61311	22.48433	0.2055316	0.17571788	3.1568849	21	—	—
196930 2003 UA_{11}	16.0	X	35.95240	233.90499	213.27516	4.66996	0.2973208	0.17730205	3.1380525	21	—	—
196931 2003 UF_{12}	16.6	X	233.75703	209.67112	207.54734	1.38204	0.2283101	0.20519345	2.8468225	21	6 22.9	21.4
196932 2003 UV_{12}	15.2	X	320.08999	348.97907	220.15745	13.04864	0.0279795	0.18881364	3.0091729	21	2 2.6	19.7
196933 2003 UY_{14}	15.4	X	143.93368	170.30326	219.78037	9.62075	0.0707681	0.18949693	3.0019348	21	2 21.1	20.0
196934 2003 UD_{15}	15.7	X	200.54237	316.71323	21.78196	11.86759	0.0933861	0.19140451	2.9819563	21	2 28.2	20.4
196935 2003 UH_{16}	14.5	X	144.67360	268.16913	42.60090	22.36895	0.0800988	0.17746996	3.1360729	21	—	—
196936 2003 UL_{16}	15.3	X	112.40939	299.57441	63.59188	2.32642	0.1579971	0.18034543	3.1026488	21	—	—
196937 2003 US_{16}	14.9	X	218.35926	39.77479	282.45953	8.89820	0.1286791	0.19164068	2.9795059	21	2 17.5	19.7
196938 Delgordon	15.7	X	48.04995	167.79813	235.87798	6.68896	0.1677674	0.17406116	3.1768848	21	—	—
196939 2003 UB_{23}	15.2	X	144.93871	343.05343	36.17679	9.64838	0.1455910	0.18754178	3.0227625	21	2 25.3	20.0
196940 2003 UW_{23}	15.4	X	330.37780	51.76801	43.76050	1.31109	0.1321107	0.17005369	3.2266016	21	12 27.8	19.2
196941 2003 UZ_{23}	15.6	X	130.95361	60.04972	356.88296	10.20164	0.1181845	0.19070886	2.9892035	21	3 19.9	19.9
196942 2003 UM_{24}	17.1	X	39.69763	73.53335	236.19455	20.90869	0.0272826	0.38416468	1.8740928	21	10 29.7	18.9
196943 2003 UC_{28}	15.1	X	203.86277	61.34201	230.83730	10.84853	0.1630434	0.18425961	3.0585526	21	1 4.2	20.3
196944 2003 UO_{28}	15.3	X	147.75677	98.26675	224.40755	11.10334	0.1553727	0.17986882	3.1081273	21	—	—
196945 Guerin	16.2	X	154.33631	61.11793	322.86174	4.00721	0.1459897	0.19149767	2.9809891	21	3 6.3	21.0
196946 2003 UX_{31}	16.3	X	347.58045	275.66626	52.56897	2.90087	0.1461731	0.21436865	2.7650004	21	8 18.3	19.1
196947 2003 UT_{35}	14.9	X	4.70874	298.35826	148.61711	14.72831	0.1644722	0.17534042	3.1614138	21	—	—
196948 2003 US_{38}	15.2	X	109.47478	174.37281	181.92905	11.14902	0.0436865	0.17959704	3.1112621	21	—	—
196949 2003 UR_{40}	14.8	X	111.04479	127.53919	226.35656	20.77670	0.1340340	0.17848473	3.1241748	21	—	—
196950 2003 UZ_{41}	16.2	X	63.77908	67.46220	32.18255	2.30048	0.0588827	0.18892804	3.0079580	21	2 9.8	20.1
196951 2003 UO_{46}	16.2	X	332.45582	251.88264	36.67537	2.42914	0.0380192	0.20435214	2.8546306	21	6 2.1	20.0
196952 2003 UX_{48}	15.8	X	161.40777	232.19406	142.17827	2.55516	0.3174353	0.19109097	2.9852172	21	3 12.9	21.1
196953 2003 UJ_{50}	15.5	X	127.35330	126.38691	276.20242	9.42794	0.1508191	0.18709252	3.0275996	21	2 26.7	20.1
196954 2003 UA_{52}	15.0	X	339.08589	190.96974	296.39013	9.58511	0.0639984	0.17793367	3.1306220	21	—	—
196955 2003 UQ_{52}	15.2	X	315.77431	325.08899	319.10042	10.55719	0.1386366	0.20138812	2.8825719	21	4 14.3	19.2
196956 2003 UR_{52}	15.6	X	86.03830	133.26645	314.94632	8.61162	0.0307561	0.18852684	3.0122239	21	2 19.4	19.7
196957 2003 UV_{52}	15.3	X	173.35817	52.08632	290.10249	8.41523	0.1091597	0.18734656	3.0248620	21	1 31.9	20.0
196958 2003 UK_{53}	15.6	X	108.19971	122.22710	321.40900	9.81666	0.0404965	0.19058402	2.9905087	21	3 12.6	19.9
196959 2003 UM_{53}	15.4	X	82.06272	79.34569	352.47112	15.61986	0.1101202	0.18436344	3.0574041	21	2 11.4	19.5
196960 2003 UA_{54}	14.8	X	2.01185	133.61840	359.91577	17.04651	0.1749273	0.17871100	3.1215373	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
196961 2003 UE_{54}	14.9	X	172.79122	325.04185	355.36449	11.76103	0.1134015	0.18282502	3.0745316	21	1 11.0	19.8
196962 2003 UR_{54}	16.1	X	180.82908	266.45234	234.90046	22.74807	0.0257761	0.37768209	1.8954767	21	8 26.8	18.8
196963 2003 UD_{56}	15.0	X	170.58360	236.41495	55.05898	12.04878	0.1914080	0.18188215	3.0851480	21	—	—
196964 2003 UT_{56}	15.1	X	91.51163	58.28000	47.55917	11.99780	0.0824879	0.18966910	3.0001179	21	4 2.5	19.3
196965 2003 UV_{56}	15.5	X	77.51608	238.49485	219.65598	10.29883	0.1438245	0.18560339	3.0437720	21	3 5.7	19.6
196966 2003 UC_{57}	15.6	X	341.36847	334.98068	68.55142	6.14645	0.1631409	0.21876614	2.7278217	21	11 23.4	18.1
196967 2003 UK_{57}	15.8	X	104.65003	331.03591	57.11983	5.96111	0.1326001	0.18154444	3.0889728	21	1 18.7	20.0
196968 2003 UR_{57}	14.7	X	68.98861	62.63856	9.13979	14.79750	0.0268638	0.18512407	3.0490236	21	1 14.1	19.2
196969 2003 UV_{58}	14.6	X	146.38502	276.36604	0.97823	11.14379	0.0498238	0.17477569	3.1682202	21	12 26.9	19.5
196970 2003 UU_{59}	15.0	X	302.23344	266.09749	303.00909	15.05082	0.0309301	0.18654762	3.0334924	21	1 17.0	19.1
196971 2003 UG_{61}	16.2	X	22.46728	282.92659	92.10757	8.36433	0.2106064	0.22555414	2.6728147	21	—	—
196972 2003 UO_{62}	15.2	X	201.90904	306.21095	64.85333	9.99902	0.0311897	0.19775339	2.9177859	21	4 8.9	19.5
196973 2003 UP_{62}	15.8	X	326.30470	267.37183	37.75076	17.74116	0.2492785	0.21047517	2.7989951	21	5 14.4	19.0
196974 2003 UC_{64}	14.9	X	241.09878	187.07397	152.85086	13.41740	0.1057605	0.19753054	2.9199801	21	4 9.1	19.5
196975 2003 UU_{64}	15.1	X	94.13768	26.57630	79.76723	17.09822	0.1420366	0.19102878	2.9858651	21	4 18.9	19.5
196976 2003 UA_{65}	14.9	X	165.29007	231.41598	111.78492	11.21822	0.1084897	0.18732922	3.0250487	21	1 27.1	19.5
196977 2003 UN_{66}	14.9	X	97.89223	286.10271	136.02063	14.38519	0.2055494	0.18545358	3.0454109	21	3 3.2	19.1
196978 2003 UZ_{69}	16.2	X	244.37732	285.74858	129.44403	2.90126	0.0744738	0.20944895	2.8081303	21	7 17.1	20.1
196979 2003 UN_{70}	15.8	X	21.01119	10.37768	171.77794	4.71063	0.0469921	0.19435602	2.9516898	21	3 24.4	19.7
196980 2003 UC_{75}	14.8	X	119.92634	184.77581	251.65303	10.89457	0.0323425	0.19447923	2.9504430	21	3 14.5	19.2
196981 2003 UV_{76}	15.5	X	125.01491	94.41672	283.59527	9.24095	0.1208475	0.18580160	3.0416069	21	1 25.6	20.0
196982 2003 UC_{79}	15.0	X	167.70335	297.70158	32.47878	15.63663	0.0799783	0.18360882	3.0657756	21	1 15.1	19.9
196983 2003 UH_{79}	15.4	X	327.42142	222.74050	121.44415	7.71747	0.0565700	0.21142742	2.7905845	21	8 9.3	18.8
196984 2003 UQ_{79}	15.3	X	243.55023	143.19143	249.07968	4.68675	0.0736315	0.20498420	2.8487596	21	6 16.2	19.2
196985 2003 UY_{79}	15.1	X	10.41138	258.15623	190.99020	20.57725	0.2667197	0.17295095	3.1904657	21	—	—
196986 2003 UC_{80}	14.6	X	63.27385	172.38133	198.59216	28.19874	0.1594766	0.17330380	3.1861337	21	—	—
196987 2003 UO_{81}	15.1	X	169.02444	251.28936	123.19136	7.43149	0.2083054	0.19124510	2.9836131	21	3 15.4	20.2
196988 2003 UC_{82}	15.3	X	307.50603	323.94559	60.93375	11.24572	0.2273011	0.21377961	2.7700772	21	8 15.9	18.5
196989 2003 UF_{83}	14.7	X	104.82766	327.63596	89.63410	8.56489	0.2228315	0.18547287	3.0451997	21	3 9.8	19.2
196990 2003 UH_{83}	15.1	X	213.32355	62.27085	266.01952	9.38266	0.0668285	0.19108036	2.9853277	21	2 19.9	19.8
196991 2003 UF_{84}	16.0	X	354.13175	306.91525	207.01272	10.11524	0.0665766	0.18360689	3.0657971	21	1 9.4	20.2
196992 2003 US_{84}	16.3	X	109.30814	253.79250	198.17266	5.38636	0.1821631	0.19063435	2.9899823	21	4 16.5	20.5
196993 2003 UJ_{85}	16.1	X	143.39983	291.81092	103.31985	2.18246	0.0559931	0.18924396	3.0046094	21	3 1.6	20.4
196994 2003 UW_{85}	14.7	X	180.73470	300.09340	30.90932	16.11522	0.1060047	0.18477287	3.0528859	21	2 2.8	19.7
196995 2003 US_{87}	14.6	X	256.61992	296.74381	288.66101	15.93762	0.0756035	0.18567117	3.0430311	21	—	—
196996 2003 UZ_{88}	15.6	X	3.31603	286.71078	91.28612	15.47608	0.1324427	0.21972882	2.7198484	21	11 27.9	18.8
196997 2003 UA_{90}	15.6	X	298.23699	112.12135	174.91392	10.44249	0.1308145	0.20035471	2.8924755	21	4 2.3	19.6
196998 2003 UV_{93}	15.9	X	103.63985	209.51714	203.22564	1.56536	0.1925099	0.18693955	3.0292509	21	2 21.9	20.1
196999 2003 UH_{94}	16.1	X	97.04894	159.81991	236.23563	1.62701	0.1996380	0.18346558	3.0673710	21	1 26.2	20.1
197000 2003 UE_{96}	16.0	X	322.71804	310.12688	45.41391	5.16951	0.0860661	0.21292102	2.7775189	21	8 17.1	19.4
197001 2003 UH_{96}	16.2	X	27.70238	198.22410	93.15040	2.63415	0.0257954	0.21248029	2.7813583	21	8 26.2	19.7
197002 2003 UV_{96}	14.9	X	352.96738	143.11681	10.74979	9.01866	0.0774689	0.18621686	3.0370834	21	1 9.6	19.0
197003 2003 UN_{97}	15.6	X	38.94981	186.57266	197.13651	5.78940	0.1089851	0.17216757	3.2001363	21	—	—
197004 2003 UT_{97}	15.6	X	72.79418	40.86856	30.32308	6.28302	0.1019721	0.18369624	3.0648028	21	1 24.8	19.6
197005 2003 UY_{97}	15.5	X	89.73767	3.73135	63.29929	2.12652	0.1524429	0.18549406	3.0449679	21	2 17.7	19.4
197006 2003 UZ_{97}	15.6	X	219.67916	288.38954	70.51055	2.96383	0.0834409	0.19694426	2.9257721	21	4 9.0	19.9
197007 2003 UB_{99}	14.7	X	159.59904	274.44164	47.81400	20.48693	0.0894247	0.18084173	3.0969697	21	—	—
197008 2003 UO_{100}	14.9	X	151.68339	243.46460	89.54361	6.09874	0.1782934	0.18293573	3.0732910	21	1 8.6	19.6
197009 2003 UZ_{100}	15.5	X	310.03954	210.39518	74.58758	3.79925	0.1806956	0.20229098	2.8739886	21	4 8.0	19.2
197010 2003 UB_{101}	16.0	X	292.98201	319.03911	67.12028	4.28703	0.1042291	0.21194536	2.7860363	21	8 9.6	19.5
197011 2003 UC_{101}	15.4	X	142.11047	2.83032	41.82722	12.07525	0.1656546	0.19133038	2.9827264	21	3 26.4	20.2
197012 2003 UG_{102}	14.9	X	136.83029	218.18171	135.23550	9.55831	0.1289871	0.18323554	3.0699378	21	1 11.9	19.5
197013 2003 UU_{102}	15.8	X	322.00819	271.05133	54.37769	5.36188	0.1108716	0.20899987	2.8121515	21	6 29.1	19.2
197014 2003 UC_{103}	15.8	X	99.22770	347.13744	96.69048	2.93106	0.2083369	0.18861404	3.0112954	21	3 30.8	20.0
197015 2003 UD_{103}	15.4	X	248.56805	201.96472	109.83217	3.06188	0.0905247	0.19514679	2.9437106	21	3 12.9	19.8
197016 2003 UY_{104}	15.7	X	164.93486	119.28650	352.35042	1.80335	0.0175086	0.20553100	2.8437047	21	6 27.4	19.6
197017 2003 UL_{105}	16.1	X	143.99776	280.11595	201.85742	5.43017	0.0605818	0.20304195	2.8668977	21	6 17.9	20.3
197018 2003 UL_{106}	15.7	X	168.43236	100.70911	42.03605	7.73713	0.1303046	0.20826536	2.8187595	21	8 16.3	20.3
197019 2003 US_{107}	16.3	X	107.25128	37.86207	19.64721	2.18367	0.1040956	0.18715570	3.0269182	21	2 20.9	20.5
197020 2003 UV_{107}	16.1	X	201.09978	6.87024	40.39744	2.40380	0.0674969	0.20064147	2.8897188	21	5 18.2	20.3
197021 2003 UR_{112}	15.1	X	233.30066	126.39951	181.00761	9.97667	0.0785259	0.19122754	2.9837958	21	2 17.9	19.7
197022 2003 UY_{113}	16.0	X	37.22054	328.39104	116.31963	5.27877	0.0847717	0.23544987	2.5973895	21	—	—
197023 2003 UZ_{114}	16.0	X	201.31945	30.74300	36.67417	2.18133	0.0698916	0.20212916	2.8755223	21	6 13.1	20.3
197024 2003 UG_{116}	15.7	X	206.17885	305.10995	107.64165	3.61203	0.1258016	0.20173813	2.8792369	21	5 29.4	20.2
197025 2003 UX_{120}	16.8	X	245.84692	175.05307	178.81727	1.34664	0.1947374	0.20213793	2.8754391	21	4 20.0	21.4
197026 2003 UY_{122}	15.6	X	145.70262	23.09656	285.90014	11.08286	0.1850980	0.23427492	2.6060666	21	—	—
197027 2003 UA_{124}	16.0	X	45.46630	140.18627	302.92243	13.21121	0.1643915	0.23752268	2.5822562	21	—	—
197028 2003 UJ_{124}	15.0	X	34.00211	188.88773	249.22733	11.56747	0.1542858	0.18016278	3.1047455	21	—	—
197029 2003 UA_{125}	15.5	X	47.93834	208.20690	46.56517	13.73075	0.2125360	0.21291588	2.7775636	21	9 9.5	19.2
197030 2003 UM_{126}	15.7	X	126.12681	91.39485	319.23655	6.25469	0.1870309	0.18890933	3.0081566	21	3 13.5	20.3
197031 2003 UK_{128}	15.9	X	317.87480	128.83582	230.53190	5.41604	0.0692839	0.21188459	2.7865690	21	8 11.3	19.5
197032 2003 UZ_{129}	14.9	X	109.39580	102.97263	273.94746	8.90285	0.0887212	0.18059772	3.0997586	21	1 3.7	19.2
197033 2003 UB_{131}	15.9	X	93.89217	96.16786	329.81687	9.93287	0.1326190	0.18553835	3.0444833	21	2 18.1	19.9
197034 2003 UP_{131}	15.4	X	116.07378	338.43695	355.25622	10.21576	0.1584160	0.17634418	3.1494059	21	—	—
197035 2003 UG_{132}	15.4	X	125.94148	69.78748	287.65131	4.05744	0.2595344	0.18186101	3.0853870	21	1 20.8	20.1
197036 2003 UQ_{132}	15.1	X	117.68762	69.86213	19.06462	13.90106	0.1388522	0.19029676	2.9935174	21	4 15.3	19.6
197037 2003 UG_{133}	14.8	X	204.00207	345.76663	261.08318	14.71247	0.0614799	0.17875864	3.1209826	21	—	—
197038 2003 UC_{134}	15.2	X	184.49408	333.69793	329.51333	10.98645	0.1246691	0.18421294	3.0590691	21	1 1.6	20.1
197039 2003 UH_{134}	14.9	X	198.58047	36.41353	245.71622	11.47417	0.1178007	0.18281281	3.0746685	21	—	—
197040 2003 UO_{135}	16.3	X	300.64826	310.23452	49.57157	4.23628	0.1069578	0.21052624	2.7985424	21	7 14.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197041 2003 UP_{135}	15.3	X	66.91324	122.69808	280.67448	8.46523	0.0696879	0.17776853	3.1325604	21	—	—
197042 2003 UW_{135}	15.0	X	134.99313	293.27934	17.96215	16.46733	0.2547811	0.17747255	3.1360424	21	—	—
197043 2003 UD_{137}	15.7	X	341.53203	277.66779	43.15796	6.08452	0.0314989	0.20980462	2.8049558	21	8 1.2	19.4
197044 2003 UZ_{137}	15.1	X	129.77415	161.15914	189.77858	7.77764	0.1149920	0.18121210	3.0927484	21	—	—
197045 2003 UC_{139}	15.6	X	276.78710	237.94171	144.80977	10.65841	0.1396787	0.21039186	2.7997340	21	7 5.5	19.5
197046 2003 UE_{140}	15.6	X	155.69901	232.39754	151.79323	10.52148	0.1044237	0.19173300	2.9785494	21	3 6.2	20.2
197047 2003 UN_{140}	16.4	X	81.31759	294.79776	115.37102	5.79055	0.1166125	0.23942309	2.5685737	21	—	—
197048 2003 UO_{140}	15.8	X	244.57883	270.44036	145.78191	7.32799	0.1265369	0.20986225	2.8044422	21	7 11.9	20.0
197049 2003 UT_{141}	15.5	X	150.62344	171.27853	167.78723	10.48940	0.0970431	0.18532103	3.0468629	21	1 5.3	20.2
197050 2003 UW_{142}	15.5	X	64.73761	145.44411	264.15044	6.98460	0.1452902	0.17884109	3.1200234	21	—	—
197051 2003 UD_{143}	14.6	X	137.61896	309.34079	22.57085	10.53563	0.0935096	0.17903699	3.1177470	21	—	—
197052 2003 UK_{145}	15.8	X	268.09068	155.27669	189.32617	2.19705	0.1650330	0.20183856	2.8782816	21	5 3.9	20.1
197053 2003 UH_{147}	14.7	X	80.38506	314.68057	77.02814	11.72081	0.1382539	0.17790527	3.1309551	21	—	—
197054 2003 UH_{149}	16.1	X	226.11752	322.25356	58.24614	4.15259	0.1845611	0.20222846	2.8745809	21	5 5.4	20.9
197055 2003 UC_{150}	15.5	X	85.05635	170.04804	165.97633	5.75000	0.1630138	0.17450004	3.1715559	21	—	—
197056 2003 UJ_{150}	15.4	X	131.50281	296.94285	118.29971	9.99281	0.1235954	0.18870770	3.0102990	21	3 23.7	20.0
197057 2003 UC_{151}	15.3	X	238.56240	260.63199	45.03318	11.83967	0.0520821	0.19166334	2.9792710	21	3 2.9	19.8
197058 2003 UV_{152}	14.1	X	101.22214	287.21077	76.84638	26.94174	0.2186941	0.17715362	3.1398052	21	—	—
197059 2003 UZ_{153}	15.7	X	268.32002	124.98523	157.45959	1.37852	0.0379051	0.19213590	2.9743840	21	3 4.0	19.9
197060 2003 UK_{154}	15.1	X	11.57982	326.64447	173.15528	10.74940	0.1187457	0.18496826	3.0507356	21	1 13.1	19.0
197061 2003 UN_{157}	15.4	X	80.76641	179.10091	266.41325	8.99024	0.0944620	0.18740356	3.0242486	21	2 15.0	19.5
197062 2003 UU_{157}	15.5	X	9.24052	226.81069	181.81534	1.50689	0.1419007	0.16973659	3.2306190	21	—	—
197063 2003 UO_{158}	15.9	X	53.24560	222.49622	271.84820	1.15608	0.1709716	0.18586240	3.0409436	21	3 21.1	19.3
197064 2003 UB_{159}	15.4	X	37.90452	343.35046	46.53020	4.55653	0.1630052	0.17130928	3.2108163	21	—	—
197065 2003 UK_{160}	16.2	X	118.56170	159.25486	275.37144	0.59467	0.1115396	0.19061603	2.9901738	21	3 26.8	20.6
197066 2003 UO_{160}	16.0	X	97.09323	70.44570	7.61313	0.92420	0.0486703	0.18819313	3.0157838	21	2 24.9	20.2
197067 2003 UJ_{161}	15.3	X	29.79836	80.53995	10.35749	6.29419	0.2485038	0.17829157	3.1264310	21	—	—
197068 2003 UN_{162}	14.8	X	119.79393	323.55014	49.08847	16.93556	0.1576872	0.18333850	3.0687883	21	1 23.7	19.5
197069 2003 UM_{163}	15.6	X	250.32265	219.56129	146.57423	5.60664	0.1172007	0.20249492	2.8720585	21	5 18.3	19.9
197070 2003 UN_{163}	15.0	X	131.60566	332.30340	49.75510	9.93165	0.1397555	0.18499951	3.0503920	21	2 14.7	19.7
197071 2003 UQ_{163}	15.5	X	198.40136	143.22657	192.18523	7.22382	0.1989312	0.19102324	2.9859228	21	2 17.2	20.6
197072 2003 UJ_{167}	14.7	X	308.16850	143.74776	239.53295	8.52144	0.2674589	0.21415143	2.7668699	21	7 30.1	17.9
197073 2003 UV_{168}	15.0	X	72.94513	328.82877	44.72037	7.94415	0.1495591	0.17493102	3.1663445	21	—	—
197074 2003 UU_{169}	16.1	X	272.85284	318.02220	40.68434	7.36024	0.1201501	0.20517029	2.8470367	21	5 31.9	20.2
197075 2003 UE_{170}	16.0	X	191.34712	113.84424	294.52848	1.68458	0.1186071	0.19802012	2.9151651	21	5 8.6	20.5
197076 2003 UK_{172}	15.3	X	113.06465	149.37318	174.86799	9.57770	0.0750723	0.17500492	3.1654531	21	—	—
197077 2003 UR_{173}	15.3	X	97.19547	182.46616	211.87148	9.07638	0.0935837	0.18078629	3.0976027	21	1 8.6	19.6
197078 2003 UT_{174}	15.5	X	87.98005	91.49633	234.06635	3.52001	0.1767892	0.17242394	3.1969635	21	12 31.9	20.6
197079 2003 UU_{174}	15.4	X	61.59172	85.77261	41.38027	4.67683	0.1556026	0.18825248	3.0151499	21	3 25.6	19.1
197080 2003 UY_{176}	15.8	X	203.47628	26.06697	303.90284	7.98381	0.0961978	0.18895345	3.0076884	21	2 14.9	20.6
197081 2003 UF_{177}	15.6	X	109.67035	61.95113	325.63352	8.04290	0.0674978	0.18201314	3.0836676	21	1 15.1	20.0
197082 2003 UR_{177}	16.2	X	255.70076	75.09531	261.39894	0.90892	0.0270518	0.19999783	2.8959153	21	4 25.5	20.3
197083 2003 UY_{178}	14.9	X	172.39326	74.21320	203.01594	9.17402	0.0697262	0.17751865	3.1354994	21	—	—
197084 2003 UF_{179}	15.1	X	74.62617	48.04564	40.14663	15.79630	0.0063116	0.18719544	3.0264898	21	2 10.9	19.6
197085 2003 UK_{179}	16.0	X	212.86782	7.08928	48.66737	6.17768	0.2536394	0.20218976	2.8749477	21	6 2.2	21.1
197086 2003 UE_{182}	15.8	X	44.15110	131.48499	35.99864	11.67173	0.0360735	0.19494834	2.9457080	21	4 8.4	19.7
197087 2003 UG_{182}	15.7	X	267.94456	182.21266	144.36584	2.56317	0.0579560	0.19986044	2.8972423	21	4 25.3	19.9
197088 2003 UH_{182}	15.5	X	195.78576	248.70096	57.78084	3.46731	0.0992779	0.18604576	3.0389452	21	1 13.8	20.3
197089 2003 UO_{182}	16.0	X	174.13750	47.62961	267.32124	1.65749	0.1552028	0.18467206	3.0539969	21	1 5.9	21.0
197090 2003 UV_{182}	15.4	X	103.96891	220.05379	211.27711	10.84409	0.0848824	0.18872826	3.0100804	21	2 26.6	19.7
197091 2003 UO_{183}	15.5	X	219.88758	245.98547	106.14535	3.03280	0.1051304	0.19593360	2.9358246	21	3 31.5	20.0
197092 2003 UX_{183}	15.9	X	153.52935	228.99869	212.59914	5.48526	0.1029917	0.19700838	2.9251372	21	5 12.1	20.3
197093 2003 UY_{184}	15.1	X	2.39243	89.95071	53.38693	11.18649	0.0479000	0.18267654	3.0761974	21	1 12.6	19.4
197094 2003 UC_{186}	15.5	X	100.41239	161.14776	256.83201	8.62491	0.0823328	0.18608657	3.0385008	21	2 6.1	19.8
197095 2003 UW_{187}	15.3	X	354.92321	271.54655	169.49235	5.45703	0.1285210	0.17211075	3.2008407	21	—	—
197096 2003 UB_{189}	15.3	X	226.74058	63.52686	244.37349	9.08612	0.0329543	0.18927832	3.0042459	21	2 11.9	19.9
197097 2003 UX_{189}	15.1	X	44.30829	196.29726	239.88281	9.21176	0.0169375	0.17927393	3.1149993	21	—	—
197098 2003 UU_{190}	15.2	X	67.97792	159.64955	196.90176	7.35398	0.1041253	0.17212743	3.2006338	21	—	—
197099 2003 UZ_{190}	15.5	X	24.69772	263.75704	183.46964	4.49089	0.1310660	0.17732930	3.1377311	21	—	—
197100 2003 UA_{192}	15.3	X	80.38168	40.78329	28.52059	11.50867	0.0956579	0.18355197	3.0664086	21	2 3.9	19.5
197101 2003 UF_{192}	15.7	X	113.71027	29.74727	29.03857	3.69503	0.1331990	0.18757538	3.0224015	21	3 6.8	20.1
197102 2003 UC_{193}	15.6	X	307.39557	292.21956	353.29816	4.64437	0.0763545	0.20215522	2.8752752	21	4 17.6	19.4
197103 2003 UQ_{193}	15.6	X	66.09989	183.40859	237.94241	2.13779	0.0606670	0.18325656	3.0697030	21	—	—
197104 2003 UD_{195}	15.7	X	116.28505	343.10686	39.71159	9.63753	0.0974596	0.18206354	3.0830985	21	1 22.8	20.2
197105 2003 UW_{195}	15.2	X	116.76056	288.59562	207.74839	9.50951	0.0749446	0.19770591	2.9182530	21	6 6.3	19.4
197106 2003 UK_{198}	16.2	X	212.97370	313.68521	79.44836	3.07650	0.0791367	0.20056967	2.8904084	21	5 13.7	20.6
197107 2003 UR_{198}	15.8	X	67.17040	317.60420	108.51968	2.93122	0.2057393	0.18188188	3.0851510	21	1 21.1	19.3
197108 2003 UP_{202}	15.2	X	90.99846	137.07682	200.24820	9.28682	0.2182527	0.17439976	3.1727715	21	—	—
197109 2003 UG_{203}	15.5	X	149.81627	6.59996	25.50422	10.76405	0.0555377	0.18956290	3.0012383	21	3 8.5	19.9
197110 2003 UN_{203}	15.7	X	179.01513	42.36901	353.65679	1.73383	0.1334599	0.19498587	2.9453300	21	4 12.3	20.4
197111 2003 UZ_{204}	15.6	X	148.12665	81.22448	293.57692	12.51511	0.0906073	0.18804993	3.0173146	21	2 10.2	20.2
197112 2003 UO_{205}	16.0	X	128.23888	311.28231	92.10681	2.99792	0.1068474	0.18990697	2.9976122	21	2 28.8	20.3
197113 2003 UU_{205}	14.4	X	97.73980	126.83092	244.76297	15.57666	0.2278463	0.17780916	3.1320832	21	1 1.1	18.7
197114 2003 UC_{208}	16.2	X	124.15808	226.11742	230.43264	6.58607	0.2224073	0.19236729	2.9719984	21	5 11.6	20.9
197115 2003 UG_{208}	15.8	X	212.58020	58.08737	30.97763	2.42289	0.0137306	0.20698727	2.8303510	21	7 29.6	19.7
197116 2003 UB_{209}	15.4	X	173.12032	257.35377	4.46591	11.62550	0.0999354	0.17364510	3.1819574	21	—	—
197117 2003 UO_{209}	15.3	X	212.97613	142.93748	127.97015	3.40606	0.1068235	0.18415738	3.0596844	21	—	—
197118 2003 UU_{209}	16.7	X	299.50538	87.17613	264.61142	0.96629	0.0301424	0.20865975	2.8152066	21	7 12.1	20.5
197119 2003 UR_{211}	15.2	X	318.96710	294.42936	235.27321	10.91950	0.0923768	0.17830794	3.1262396	21	—	—
197120 2003 UQ_{214}	15.0	X	112.31901	78.19122	6.16188	11.38722	0.0732728	0.19288531	2.9666749	21	3 26.4	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197121 2003 UN_{215}	15.2	X	1.70173	259.14970	199.69675	15.45937	0.1024028	0.17645303	3.1481105	21	—	—
197122 2003 UU_{215}	15.5	X	213.89953	117.24343	194.38638	12.36440	0.1939526	0.19075293	2.9887430	21	2 1.2	20.8
197123 2003 UO_{218}	14.2	X	196.42529	280.08463	68.81101	13.26642	0.1652129	0.19000605	2.9965700	21	3 11.5	19.4
197124 2003 UQ_{223}	15.1	X	73.31618	151.71797	251.83189	9.26342	0.1297324	0.17797387	3.1301505	21	—	—
197125 2003 UK_{225}	15.3	X	209.78529	258.03835	16.75373	9.78544	0.0310202	0.18120918	3.0927816	21	—	—
197126 2003 UX_{225}	15.4	X	134.45422	20.18825	271.79789	3.26471	0.1411976	0.17393750	3.1783903	21	—	—
197127 2003 UJ_{227}	15.3	X	148.77626	164.43837	250.79132	5.16054	0.1188192	0.19262084	2.9693897	21	4 3.7	20.0
197128 2003 UX_{227}	15.6	X	54.34101	84.66807	26.64785	15.37707	0.1872277	0.18375820	3.0641139	21	3 3.4	19.3
197129 2003 UG_{229}	15.6	X	141.38216	357.37931	338.11565	4.14859	0.1350398	0.18064683	3.0991968	21	—	—
197130 2003 UX_{230}	16.2	X	9.53089	45.62596	261.67598	3.37448	0.1278997	0.21437057	2.7649839	21	8 26.1	19.2
197131 2003 UQ_{232}	15.6	X	85.62403	249.79865	219.73846	5.79312	0.2102880	0.18915908	3.0055082	21	4 13.0	19.6
197132 2003 UY_{233}	15.2	X	236.58181	227.48089	6.57824	9.65192	0.0984899	0.17990389	3.1077233	21	—	—
197133 2003 UF_{235}	16.2	X	27.54458	141.04281	23.02839	2.35602	0.0892726	0.19089950	2.9872130	21	3 11.9	19.8
197134 2003 UK_{237}	15.1	X	318.59353	277.59956	352.02070	7.03073	0.2285631	0.20093358	2.8869175	21	3 21.3	18.7
197135 2003 UK_{240}	15.4	X	154.22615	21.30347	38.77819	11.08507	0.0952381	0.19328476	2.9625860	21	4 16.9	19.8
197136 2003 UZ_{240}	14.9	X	56.17572	20.77653	24.71553	12.80263	0.0396772	0.17635181	3.1493150	21	—	—
197137 2003 UG_{244}	15.2	X	73.82717	8.79217	48.51380	11.12213	0.0853993	0.17902120	3.1179304	21	1 7.3	19.4
197138 2003 UY_{246}	16.2	X	329.01935	314.00121	334.82440	0.62951	0.1372261	0.20490027	2.8495374	21	5 16.8	19.4
197139 2003 UB_{247}	15.4	X	157.60606	157.55007	193.32091	4.81812	0.1183729	0.18439665	3.0570370	21	1 27.9	20.1
197140 2003 UA_{248}	16.2	X	176.82902	61.66269	306.77319	0.44168	0.0287096	0.19118981	2.9841883	21	3 3.7	20.5
197141 2003 UE_{249}	15.2	X	129.36107	14.37546	295.16362	3.51041	0.1537554	0.17675064	3.1445756	21	—	—
197142 2003 UW_{250}	15.5	X	339.79754	177.43073	279.17235	4.07441	0.1431885	0.17055682	3.2202529	21	—	—
197143 2003 UG_{251}	16.7	X	244.38424	207.52257	219.54308	3.00231	0.0802408	0.20925001	2.8099099	21	7 31.1	20.7
197144 2003 UX_{255}	15.2	X	258.01315	157.95819	161.91128	5.61858	0.1263688	0.19688120	2.9263968	21	3 28.9	19.5
197145 2003 US_{256}	16.3	X	59.61192	263.52762	116.53192	3.19837	0.2271538	0.22975875	2.6401059	21	—	—
197146 2003 UM_{258}	16.4	X	97.97727	12.20342	79.56989	0.41487	0.1761769	0.18923005	3.0047567	21	4 2.2	20.6
197147 2003 UW_{258}	14.8	X	289.84620	229.22345	73.02011	11.78993	0.2569206	0.19953651	2.9003771	21	3 30.4	19.3
197148 2003 UL_{261}	15.0	X	78.28666	44.10296	37.11322	10.50940	0.0684536	0.18587100	3.0408498	21	2 12.0	19.2
197149 2003 US_{263}	15.9	X	343.30123	342.48348	90.85551	6.33916	0.1042197	0.22454930	2.6807825	21	—	—
197150 2003 US_{265}	14.6	X	108.34889	101.85377	238.94606	16.36563	0.1856674	0.17634196	3.1494323	21	—	—
197151 2003 UU_{266}	15.4	X	117.49308	320.94322	99.15767	3.48913	0.0925176	0.18768516	3.0212229	21	3 7.5	19.6
197152 2003 UU_{267}	15.3	X	66.44216	359.90068	64.68237	6.39093	0.1522525	0.17949118	3.1124853	21	1 12.6	19.1
197153 2003 UE_{271}	15.1	X	130.99296	326.98266	99.28978	13.41208	0.1175084	0.19308648	2.9646139	21	4 7.3	19.8
197154 2003 UD_{272}	15.4	X	64.01799	247.34295	208.61307	8.78158	0.1549294	0.18269374	3.0760044	21	2 13.2	19.3
197155 2003 UJ_{272}	15.4	X	110.32934	126.00364	208.28550	15.84615	0.2251599	0.17654807	3.1469806	21	—	—
197156 2003 UL_{272}	15.1	X	161.79362	114.76012	204.37261	15.74955	0.1227013	0.18091092	3.0961800	21	—	—
197157 2003 UZ_{272}	15.2	X	74.76955	19.94118	34.64471	9.98176	0.0770414	0.18021647	3.1041288	21	1 3.9	19.4
197158 2003 UF_{273}	15.4	X	286.34922	344.68035	74.93994	9.92140	0.1340296	0.21182046	2.7871314	21	9 14.0	19.1
197159 2003 UH_{273}	14.9	X	157.92485	99.55090	227.05755	16.80961	0.2445176	0.18089992	3.0963055	21	1 8.6	20.3
197160 2003 UJ_{273}	14.8	X	287.39008	126.37848	68.80373	10.26322	0.0333290	0.17870879	3.1215630	21	—	—
197161 2003 UM_{273}	15.6	X	178.53048	197.59544	206.37088	11.49637	0.0578808	0.19491056	2.9460886	21	4 19.7	19.9
197162 2003 UU_{273}	14.9	X	174.60455	98.20854	199.93886	15.68206	0.0889667	0.17872995	3.1213166	21	—	—
197163 2003 UJ_{274}	15.6	X	129.89815	65.67053	349.59766	7.59235	0.1159119	0.19069943	2.9893020	21	3 16.2	20.1
197164 2003 UA_{276}	15.2	X	93.66174	234.21104	238.20251	6.73376	0.0838340	0.19073644	2.9889152	21	4 6.9	19.3
197165 2003 UE_{277}	15.4	X	100.58937	195.47898	211.56172	0.86074	0.2553196	0.18298036	3.0727913	21	2 20.9	19.7
197166 2003 UG_{277}	16.2	X	200.83397	226.45983	270.31496	2.96353	0.0453405	0.21334478	2.7738398	21	9 10.7	20.2
197167 2003 UM_{277}	15.6	X	324.23113	279.40530	63.97387	6.00878	0.0768677	0.21238223	2.7822144	21	8 2.8	19.1
197168 2003 UE_{279}	15.5	X	238.52481	253.05700	112.03110	3.09899	0.1378943	0.19880290	2.9075079	21	5 2.3	20.0
197169 2003 UH_{279}	15.3	X	3.25728	202.07019	279.78327	8.02104	0.1187286	0.18065832	3.0990653	21	—	—
197170 2003 UZ_{279}	15.3	X	106.88171	234.46634	182.97437	9.16234	0.1413709	0.18545183	3.0454301	21	2 23.5	19.7
197171 2003 US_{280}	15.8	X	98.31283	359.06519	93.32319	3.24406	0.1449130	0.18818599	3.0158601	21	3 31.6	19.9
197172 2003 UU_{280}	16.1	X	133.57318	279.84248	76.54358	5.52556	0.2809378	0.18312604	3.0711614	21	1 29.9	21.0
197173 2003 UW_{280}	15.4	X	62.64619	53.14183	61.20773	1.49659	0.1936308	0.18461018	3.0546792	21	3 15.5	19.0
197174 2003 UG_{282}	15.5	X	110.58458	238.35382	126.99238	6.54054	0.1523164	0.17934479	3.1141788	21	—	—
197175 2003 UT_{282}	15.3	X	119.73472	327.37913	102.85303	11.00399	0.2539564	0.18759301	3.0222121	21	4 14.5	20.2
197176 2003 UE_{286}	16.6	X	179.69105	113.35927	203.85691	2.77162	0.1506681	0.18547111	3.0452190	21	1 12.5	21.5
197177 2003 UJ_{287}	15.3	X	288.96647	5.67070	222.28901	8.27499	0.2364729	0.18372808	3.0644487	21	—	—
197178 2003 UF_{294}	15.0	X	213.71151	330.25930	348.85482	10.13718	0.1020294	0.19265304	2.9690589	21	2 15.3	19.6
197179 2003 UM_{296}	16.2	X	315.34029	142.61051	195.96512	3.38096	0.1036298	0.21004261	2.8028366	21	7 7.1	19.6
197180 2003 UT_{296}	15.2	X	276.69637	99.92815	175.59901	1.73794	0.0865518	0.19468878	2.9483255	21	2 26.6	19.3
197181 2003 UU_{296}	16.4	X	283.77582	210.85838	194.78542	4.46687	0.0727040	0.21358907	2.7717243	21	8 24.6	19.9
197182 2003 UP_{303}	15.3	X	202.84374	27.10806	266.43469	8.57766	0.0576713	0.18412246	3.0600712	21	1 4.0	19.9
197183 2003 UO_{309}	15.0	X	13.15654	197.39042	249.47980	8.75745	0.0606465	0.17744398	3.1363790	21	—	—
197184 2003 UT_{309}	15.3	X	121.83153	59.77659	39.55734	12.64535	0.0393004	0.19769744	2.9183364	21	4 21.9	19.4
197185 2003 UV_{309}	15.8	X	334.78980	197.45391	115.09112	6.35220	0.0744717	0.20903606	2.8118269	21	7 5.5	19.1
197186 2003 UN_{310}	15.1	X	342.16989	127.93316	17.29214	17.37012	0.0667348	0.17988105	3.1079864	21	—	—
197187 2003 UV_{314}	15.8	X	30.99971	262.45919	108.28643	1.71149	0.0831159	0.22304354	2.6928342	21	12 20.5	19.3
197188 2003 UB_{315}	15.0	X	215.42260	238.75080	49.62292	11.55809	0.0635814	0.18188748	3.0850877	21	1 13.5	19.8
197189 Raymond	15.5	X	14.79721	267.34978	177.82432	9.79036	0.0982532	0.17905481	3.1175401	21	—	—
197190 2003 UF_{318}	16.2	X	208.85297	302.45745	149.03090	4.98962	0.0286631	0.20958456	2.8069189	21	7 25.5	20.0
197191 2003 VE	17.0	X	221.29633	236.15259	257.29705	16.04527	0.0764908	0.38226881	1.8802841	21	10 14.4	19.2
197192 2003 VK	15.3	X	100.12350	329.34320	77.93332	10.69603	0.0939763	0.18307663	3.0717140	21	1 31.6	19.6
197193 2003 VX	15.2	X	57.87865	118.67853	311.76281	21.51772	0.2588610	0.17814639	3.1281293	21	1 20.1	18.4
197194 2003 VX_{1}	15.3	X	225.81294	121.90125	249.42728	6.64532	0.0461132	0.19779771	2.9173501	21	5 1.2	19.6
197195 2003 VQ_{5}	15.7	X	180.38924	305.55199	39.68039	1.02032	0.1909722	0.18805164	3.0172963	21	2 16.4	20.6
197196 Jamestaylor	15.2	X	207.82348	299.80041	64.92861	10.16022	0.1500453	0.19292550	2.9662628	21	4 6.3	20.1
197197 2003 VH_{9}	15.2	X	22.88937	65.37921	61.23434	12.30170	0.0643245	0.18053660	3.1004581	21	1 20.5	19.4
197198 2003 VV_{9}	15.1	X	52.78509	152.27653	330.62861	7.87438	0.2064374	0.18354911	3.0664404	21	3 8.9	18.4
197199 2003 VS_{11}	15.3	X	61.24716	37.78829	44.06202	11.05438	0.0549018	0.18191154	3.0848157	21	1 17.9	19.6
197200 2003 WJ	15.6	X	117.75067	170.34745	213.66009	8.37558	0.1387995	0.18269620	3.0759767	21	1 26.3	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197201 2003 *WL*	15.5	X	181.35766	266.93663	82.79370	5.51307	0.1205187	0.18766952	3.0213907	21	2 21.5	20.3
197202 2003 WA_1	15.8	X	106.57393	303.86244	95.62841	2.34934	0.1394224	0.18275058	3.0753665	21	2 3.8	20.1
197203 2003 WJ_1	15.0	X	125.06930	318.96450	55.21924	17.41705	0.0521458	0.18132058	3.0915147	21	1 16.3	19.7
197204 2003 WY_1	15.3	X	142.58075	313.49315	96.99636	11.11747	0.0832603	0.18975171	2.9992471	21	3 27.1	19.9
197205 2003 WJ_3	15.6	X	166.73019	217.96074	224.37423	10.41398	0.0723875	0.19731764	2.9220801	21	5 25.5	20.0
197206 2003 WW_3	14.8	X	6.50005	289.66075	211.74859	10.06369	0.1723388	0.17838037	3.1253933	21	1 4.0	18.6
197207 2003 WE_4	15.3	X	36.03095	267.34530	229.31817	8.60583	0.0896242	0.18379552	3.0636990	21	2 14.8	19.4
197208 2003 WY_7	14.7	X	55.49709	168.10258	248.57776	20.85138	0.1606005	0.17528254	3.1621097	21	—	—
197209 2003 WQ_8	14.3	X	5.07848	232.65675	262.71575	15.54701	0.1998482	0.17784580	3.1316530	21	—	—
197210 2003 WM_{11}	15.0	X	88.99612	112.33886	293.55481	8.25936	0.1082516	0.18026063	3.1036218	21	1 15.6	19.2
197211 2003 WN_{17}	15.1	X	92.62909	108.35146	318.53396	11.49077	0.0785794	0.18367225	3.0650696	21	2 9.9	19.2
197212 2003 WT_{18}	14.9	X	25.86463	213.00256	282.04003	13.03830	0.0132086	0.18351003	3.0668757	21	1 29.7	19.2
197213 2003 WL_{19}	15.7	X	146.00584	83.71443	285.29785	7.17181	0.1077909	0.18434111	3.0576510	21	2 5.0	20.2
197214 2003 WT_{23}	15.1	X	29.17116	301.47438	211.14318	10.14752	0.1189492	0.18511289	3.0491464	21	2 25.1	18.8
197215 2003 WY_{24}	16.9	X	271.15265	183.13640	266.44495	19.70080	0.0686150	0.38103634	1.8843364	21	10 29.2	18.9
197216 2003 WR_{26}	17.2	X	215.68403	96.55941	356.22075	19.41490	0.0999853	0.36838283	1.9272429	21	8 13.8	19.7
197217 2003 WB_{27}	15.9	X	30.38405	101.21497	4.40337	6.47807	0.1425989	0.17896849	3.1185425	21	1 3.8	19.6
197218 2003 WL_{28}	15.2	X	320.34069	133.57853	34.68706	9.95428	0.0541287	0.17851485	3.1238234	21	—	—
197219 2003 WH_{30}	15.6	X	84.69414	60.40386	36.04635	10.66571	0.0198125	0.18715008	3.0269787	21	3 5.2	19.9
197220 2003 WY_{31}	15.5	X	218.87095	79.40447	245.87785	9.19009	0.1040307	0.19125198	2.9835416	21	2 21.3	20.4
197221 2003 WR_{32}	15.3	X	2.54847	194.91649	273.65817	3.70596	0.1301997	0.17464350	3.1698187	21	—	—
197222 2003 WF_{35}	15.3	X	167.42972	8.21922	331.40735	9.84100	0.0804628	0.18472836	3.0533763	21	1 24.6	20.0
197223 2003 WS_{35}	15.6	X	93.82289	104.47240	350.32668	8.63973	0.0906617	0.18902078	3.0069741	21	3 18.4	19.6
197224 2003 WX_{35}	15.4	X	91.53086	18.02878	27.68525	10.99793	0.0398965	0.18098625	3.0953207	21	1 11.6	19.8
197225 2003 WQ_{39}	14.9	X	279.64893	260.23443	262.72403	9.45269	0.0460147	0.17222437	3.1994327	21	—	—
197226 2003 WW_{39}	15.0	X	98.73962	65.42543	277.86118	6.60486	0.0429152	0.17335551	3.1855001	21	—	—
197227 2003 WR_{40}	15.4	X	164.47831	114.43286	260.71265	9.29529	0.0788961	0.18681756	3.0305696	21	2 25.7	20.1
197228 2003 WT_{40}	15.3	X	79.54802	351.14694	35.78084	4.92506	0.2429669	0.17715977	3.1397325	21	—	—
197229 2003 WZ_{42}	17.3	X	355.22821	119.39686	218.54984	21.92668	0.0479498	0.37909122	1.8907767	21	9 28.7	19.2
197230 2003 WG_{45}	15.1	X	249.92166	356.46614	263.85206	8.36104	0.0231725	0.18129873	3.0917631	21	1 16.9	19.5
197231 2003 WO_{45}	15.2	X	84.88453	323.83233	124.81705	13.06942	0.2212138	0.18352988	3.0666546	21	3 24.7	19.4
197232 2003 WM_{46}	15.5	X	245.21658	201.00046	84.46195	2.57384	0.1353854	0.18952214	3.0016687	21	2 3.3	20.3
197233 2003 WD_{50}	14.8	X	195.81360	31.63404	253.98879	14.98319	0.0641970	0.18001473	3.1064475	21	—	—
197234 2003 WF_{50}	15.1	X	20.32870	86.60347	19.14942	10.54850	0.0475364	0.17905006	3.1175952	21	—	—
197235 2003 WU_{53}	15.9	X	124.11480	59.43355	352.80656	4.16210	0.0995234	0.18878342	3.0094940	21	3 5.2	20.3
197236 2003 WA_{57}	16.0	X	172.80713	221.58731	214.86372	7.51498	0.0460731	0.19948025	2.9009224	21	5 23.9	20.3
197237 2003 WQ_{57}	15.4	X	44.76705	202.04720	251.30617	7.78797	0.0731370	0.17957784	3.1114838	21	1 7.6	19.4
197238 2003 WW_{58}	15.1	X	230.64085	235.42417	59.02609	9.12256	0.1560999	0.18677127	3.0310702	21	2 2.2	20.2
197239 2003 WO_{59}	15.0	X	184.47085	205.46962	79.24724	5.94654	0.0354929	0.17634209	3.1494308	21	—	—
197240 2003 WD_{60}	15.6	X	202.53044	276.53145	78.95789	1.38504	0.2029501	0.19287123	2.9668192	21	3 17.7	20.5
197241 2003 WO_{60}	15.6	X	115.72079	169.45020	247.53806	6.18554	0.1878042	0.18532890	3.0467767	21	3 9.8	20.2
197242 2003 WA_{63}	15.8	X	135.62806	91.02768	18.10114	2.12898	0.1006178	0.19484835	2.9467156	21	5 26.5	20.1
197243 2003 WL_{63}	15.7	X	122.93020	164.81031	250.07527	8.37912	0.0458106	0.18591204	3.0404021	21	2 23.9	20.2
197244 2003 WZ_{63}	14.9	X	135.77512	81.51564	240.08072	8.45949	0.0672791	0.17454194	3.1710482	21	—	—
197245 2003 WJ_{65}	16.1	X	178.80143	201.06470	174.60701	0.99055	0.2060724	0.19134672	2.9825566	21	3 22.0	21.1
197246 2003 WL_{65}	15.4	X	9.34712	259.97510	203.08925	2.03184	0.0726001	0.17504756	3.1649390	21	—	—
197247 2003 WW_{66}	15.9	X	35.52905	216.79640	267.26292	0.52263	0.1812618	0.17951004	3.1122673	21	2 5.5	19.0
197248 2003 WS_{67}	15.4	X	33.64200	177.16383	244.20351	9.85134	0.0619615	0.17297068	3.1902231	21	—	—
197249 2003 WW_{68}	15.4	X	110.28916	270.72301	77.14963	4.34024	0.0352526	0.17364886	3.1819115	21	—	—
197250 2003 WM_{70}	15.8	X	29.34506	328.87761	111.80121	2.31680	0.1519561	0.17681538	3.1438081	21	—	—
197251 2003 WU_{70}	14.9	X	17.38913	206.25448	278.39933	20.11497	0.1197991	0.18041862	3.1018096	21	1 4.9	18.7
197252 2003 WN_{71}	15.3	X	37.04011	140.59783	342.24223	13.00368	0.1208876	0.18191186	3.0848120	21	2 7.2	19.0
197253 2003 WA_{72}	15.2	X	141.03940	1.29091	28.63453	9.71009	0.0537344	0.18495130	3.0509221	21	2 24.4	19.7
197254 2003 WB_{72}	15.3	X	71.07211	127.66813	38.69287	12.05610	0.0756332	0.19324730	2.9629689	21	5 15.2	19.3
197255 2003 WF_{72}	15.1	X	326.08989	170.74035	344.82190	5.00665	0.1683965	0.17348451	3.1839207	21	—	—
197256 2003 WE_{74}	14.4	X	44.72117	117.40456	260.12967	17.35952	0.1136678	0.16894436	3.2407106	21	—	—
197257 2003 WG_{74}	15.5	X	60.58514	183.23005	315.17245	3.15934	0.1036188	0.18669090	3.0319401	21	3 29.1	19.3
197258 2003 WY_{74}	16.7	X	110.94218	114.88332	51.06693	21.66471	0.0827049	0.36512086	1.9387045	21	7 9.7	19.3
197259 2003 WQ_{75}	15.4	X	114.55728	132.20443	289.28384	7.78460	0.0823131	0.18839662	3.0136118	21	2 27.3	19.7
197260 2003 WZ_{75}	15.8	X	97.19066	136.73283	316.60190	7.99887	0.0981663	0.18904098	3.0067599	21	3 19.3	20.0
197261 2003 WZ_{77}	15.3	X	28.34316	118.43267	281.48560	11.57371	0.1641560	0.17202308	3.2019281	21	—	—
197262 2003 WG_{78}	15.5	X	34.29980	122.98727	326.32347	4.10121	0.1164187	0.17815135	3.1280713	21	—	—
197263 2003 WU_{78}	15.3	X	188.62661	240.60941	31.26869	9.05962	0.0579745	0.17527228	3.1622332	21	—	—
197264 2003 WS_{79}	15.4	X	16.21054	331.54182	265.62438	8.71101	0.0468466	0.19779449	2.9173817	21	5 27.8	19.1
197265 2003 WB_{80}	15.0	X	58.78419	208.73109	258.86773	13.69871	0.0819702	0.18317313	3.0706351	21	2 9.1	19.2
197266 2003 WM_{88}	15.2	X	359.19678	78.20669	89.46108	10.76248	0.0192857	0.18298178	3.0727754	21	2 10.5	19.5
197267 2003 WL_{89}	15.4	X	115.91355	148.89139	231.42867	9.05183	0.0832967	0.18095640	3.0956612	21	1 13.1	19.9
197268 2003 WT_{89}	15.9	X	204.01949	46.40143	278.40794	4.40686	0.1732847	0.18859842	3.0114618	21	2 10.1	20.9
197269 2003 WJ_{93}	14.3	X	283.29391	293.99417	246.16187	21.89624	0.1415033	0.17247288	3.1963586	21	—	—
197270 2003 WA_{95}	15.8	X	169.53259	135.16742	257.97680	1.88661	0.1296787	0.19153901	2.9805601	21	3 30.5	20.5
197271 2003 WJ_{95}	15.4	X	58.11616	12.60202	90.42395	3.43251	0.1088177	0.18195152	3.0843638	21	2 12.4	19.3
197272 2003 WB_{96}	15.6	X	142.32055	155.71278	216.11359	2.42387	0.1543467	0.18550409	3.0448581	21	2 9.9	20.3
197273 2003 WQ_{96}	16.3	X	120.69559	75.51340	2.19585	1.88357	0.1911369	0.18995569	2.9970996	21	4 11.7	20.8
197274 2003 WR_{96}	15.9	X	193.12820	308.40362	84.35362	3.34602	0.0822431	0.19581169	2.9370430	21	4 23.0	20.4
197275 2003 WQ_{97}	15.6	X	136.43593	179.65367	192.61270	7.58970	0.0478369	0.18322921	3.0700085	21	1 22.5	20.1
197276 2003 WS_{98}	14.7	X	30.78862	63.60302	318.55243	17.67369	0.1287562	0.16970681	3.2309968	21	12 31.2	19.3
197277 2003 WJ_{100}	14.9	X	208.96877	97.74310	259.12753	15.00238	0.1252476	0.19133431	2.9826856	21	3 17.9	19.9
197278 2003 WB_{101}	15.4	X	2.34969	297.43223	90.51629	13.91022	0.1847520	0.22285233	2.6943743	21	12 14.9	18.2
197279 2003 WD_{102}	16.1	X	230.59546	314.69405	60.36103	3.25798	0.2205465	0.19952196	2.9005181	21	4 30.9	20.9
197280 2003 WL_{102}	15.1	X	255.47427	35.52036	237.38058	10.94990	0.0471518	0.18611744	3.0381649	21	2 1.6	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197281 2003 WG_{103}	15.3	X	122.66500	80.93464	74.64952	4.73076	0.1256135	0.19812968	2.9140904	21	7 13.6	19.8
197282 2003 WP_{104}	14.1	X	243.73372	332.26792	246.79833	24.86125	0.0459168	0.17254064	3.1955217	21	—	—
197283 2003 WR_{106}	15.8	X	90.78129	53.94932	48.62899	3.99972	0.1715137	0.18605016	3.0388972	21	4 7.4	19.8
197284 2003 WV_{107}	15.7	X	138.39874	347.92670	51.55300	1.59133	0.0649792	0.18765607	3.0215351	21	3 2.3	20.0
197285 2003 WV_{109}	15.6	X	264.43548	355.14512	348.03598	2.45625	0.1777867	0.20090157	2.8872241	21	4 25.5	20.1
197286 2003 WD_{110}	15.1	X	293.63082	270.66737	292.93421	7.14929	0.0609370	0.17950106	3.1123711	21	—	—
197287 2003 WR_{113}	15.9	X	112.36799	82.02485	278.83708	3.38975	0.1344871	0.17864970	3.1222514	21	—	—
197288 2003 WW_{115}	15.9	X	7.98842	105.41168	288.66162	5.08708	0.1492958	0.22140691	2.7060881	21	12 26.9	19.0
197289 2003 WK_{119}	15.2	X	176.36231	68.23836	295.52154	4.72463	0.2496408	0.18890875	3.0081627	21	3 6.2	20.6
197290 2003 WP_{119}	15.3	X	173.30720	322.62057	59.43359	13.01540	0.1377686	0.18898613	3.0073415	21	3 28.8	20.3
197291 2003 WZ_{119}	15.0	X	67.51319	36.94064	67.76247	18.80516	0.1052652	0.18230845	3.0803367	21	3 9.4	19.4
197292 2003 WC_{120}	15.5	X	50.13925	69.42000	61.35124	11.74259	0.3055062	0.18053896	3.1004312	21	4 6.2	18.8
197293 2003 WT_{121}	15.2	X	218.51213	303.22915	57.97089	10.30551	0.0921135	0.19107711	2.9853616	21	4 13.2	19.8
197294 2003 WX_{122}	15.3	X	42.29044	22.59790	9.73963	4.84012	0.1655405	0.17073571	3.2180033	21	—	—
197295 2003 WK_{123}	15.3	X	188.41709	334.74696	53.46965	11.01747	0.1053257	0.19181703	2.9776794	21	4 15.2	20.0
197296 2003 WM_{125}	14.9	X	88.89699	346.50721	74.72498	24.96427	0.1643141	0.17893971	3.1188768	21	2 20.8	19.6
197297 2003 WS_{126}	14.7	X	67.84868	0.82201	72.86116	18.31134	0.1194862	0.17732811	3.1377451	21	1 24.8	18.9
197298 2003 WC_{128}	14.2	X	87.98070	313.35795	108.70535	23.47064	0.2248847	0.17622762	3.1507944	21	2 25.7	18.7
197299 2003 WH_{128}	15.3	X	201.44147	67.17321	257.19360	7.86500	0.1070237	0.18879521	3.0093687	21	2 5.3	20.1
197300 2003 WN_{128}	15.4	X	1.73225	325.21364	245.73232	9.61172	0.0128284	0.19355694	2.9598080	21	3 31.8	19.6
197301 2003 WK_{129}	15.5	X	250.97914	81.92725	200.03341	3.08914	0.0534303	0.18695410	3.0290938	21	2 9.7	20.0
197302 2003 WY_{129}	15.9	X	119.47601	80.75082	341.57166	3.12933	0.1010729	0.18755769	3.0225916	21	3 11.8	20.2
197303 2003 WS_{131}	15.1	X	321.28491	261.08188	265.63704	6.67258	0.1372669	0.17475663	3.1684506	21	—	—
197304 2003 WR_{132}	15.5	X	54.63808	58.24820	84.91986	3.04804	0.1867370	0.18595008	3.0399875	21	4 8.7	18.9
197305 2003 WJ_{133}	15.5	X	98.66728	230.54330	242.89352	9.29680	0.0663093	0.19017814	2.9947620	21	4 11.6	19.8
197306 2003 WD_{138}	14.6	X	46.00951	27.42997	69.74400	16.21931	0.1777195	0.17773326	3.1329749	21	1 24.1	18.3
197307 2003 WW_{139}	15.0	X	104.30075	335.07078	69.38540	10.83410	0.2622043	0.18198106	3.0840300	21	2 28.7	19.6
197308 2003 WC_{140}	14.7	X	38.15859	14.93587	83.99552	24.49351	0.1763139	0.17579074	3.1560125	21	1 8.8	18.3
197309 2003 WS_{140}	15.4	X	114.34385	206.01873	271.84815	3.49971	0.2191525	0.19005950	2.9960082	21	5 27.8	19.9
197310 2003 WG_{141}	16.7	X	274.11819	324.33483	74.15242	23.43682	0.1110736	0.37347668	1.9096791	21	8 11.5	19.0
197311 2003 WJ_{141}	15.0	X	143.37375	170.48145	274.41956	10.70784	0.1345859	0.19055006	2.9908639	21	5 5.7	19.8
197312 2003 WB_{142}	14.3	X	47.84442	296.04542	95.74486	18.34645	0.2620169	0.17003683	3.2268149	21	—	—
197313 2003 WM_{143}	15.0	X	15.09425	301.37363	104.60233	12.46020	0.1152780	0.16987862	3.2288180	21	—	—
197314 2003 WQ_{143}	15.0	X	8.37118	117.65522	326.55592	8.03816	0.0665470	0.17431630	3.1737841	21	—	—
197315 2003 WE_{144}	15.5	X	158.96104	262.20772	79.81254	2.19972	0.0292945	0.18199397	3.0838841	21	1 12.5	19.9
197316 2003 WN_{146}	14.9	X	333.94575	303.18368	163.73982	13.15448	0.0804871	0.17136512	3.2101187	21	—	—
197317 2003 WW_{146}	15.2	X	79.23948	241.22392	176.94216	16.46296	0.2343522	0.18109246	3.0941104	21	2 1.2	19.2
197318 2003 WZ_{146}	15.0	X	118.77003	156.32464	258.60079	12.26578	0.0996498	0.18401167	3.0612994	21	2 24.5	19.7
197319 2003 WN_{147}	15.5	X	120.45664	327.67522	92.53907	11.65404	0.0701097	0.18610255	3.0383269	21	3 12.4	20.0
197320 2003 WP_{147}	15.2	X	117.42502	176.52685	198.74265	9.30257	0.1427472	0.18043078	3.1016703	21	1 16.9	19.8
197321 2003 WT_{147}	15.0	X	3.49424	272.64399	233.22684	11.77295	0.1401355	0.17876732	3.1208817	21	1 6.9	18.9
197322 2003 WZ_{148}	15.9	X	88.88611	21.59303	42.37713	10.37040	0.1112570	0.18255675	3.0775429	21	2 11.1	20.2
197323 2003 WW_{149}	15.3	X	38.24950	219.71784	226.23220	15.47098	0.1075217	0.17709348	3.1405159	21	—	—
197324 2003 WX_{149}	15.4	X	60.32626	257.33943	188.28262	17.40447	0.1844887	0.17996842	3.1069804	21	1 28.6	19.3
197325 2003 WF_{151}	14.6	X	43.58179	294.75130	141.89920	27.13448	0.2415355	0.17176748	3.2051037	21	—	—
197326 2003 WP_{152}	15.5	X	316.37584	329.97972	347.80654	5.97904	0.0606130	0.20359366	2.8617161	21	6 15.9	19.2
197327 2003 WF_{153}	15.0	X	120.20235	287.34872	115.95157	16.37716	0.1165098	0.18529382	3.0471612	21	2 23.5	19.5
197328 2003 WK_{157}	15.2	X	96.51218	264.09474	154.82201	16.03990	0.0806683	0.18247020	3.0785160	21	2 5.0	19.4
197329 2003 WL_{158}	16.3	X	182.73588	34.97031	350.43962	1.45836	0.1154907	0.19478964	2.9473077	21	4 2.6	20.9
197330 2003 WE_{167}	16.2	X	187.63420	207.35096	244.23533	1.11609	0.0293981	0.20415537	2.8564646	21	6 29.5	20.2
197331 2003 WN_{168}	15.5	X	190.39332	236.79563	122.77466	10.68100	0.0809792	0.19044369	2.9919775	21	3 13.5	20.1
197332 2003 WM_{169}	16.9	X	271.22198	358.15137	73.93291	22.57768	0.0971400	0.37505332	1.9043234	21	10 16.5	19.1
197333 2003 WD_{170}	15.0	X	100.15655	256.16897	137.81797	10.26410	0.0790691	0.18015227	3.1048663	21	1 11.4	19.3
197334 2003 WH_{170}	15.1	X	45.76133	281.94295	186.97271	17.42384	0.1601768	0.18034948	3.1026024	21	1 30.8	19.0
197335 2003 WT_{173}	16.0	X	187.35550	288.77678	72.22703	4.06016	0.1025366	0.18983253	2.9983958	21	3 11.5	20.6
197336 2003 WB_{176}	15.8	X	212.57356	245.69023	23.99169	3.86028	0.1113807	0.17758612	3.1347052	21	—	—
197337 2003 WE_{176}	16.3	X	253.61607	308.52487	37.05145	2.78580	0.1266253	0.19783467	2.9169867	21	4 23.7	20.7
197338 2003 WR_{176}	16.1	X	174.71716	250.16402	141.08906	3.56545	0.1216436	0.19167388	2.9791618	21	4 4.1	20.8
197339 2003 WW_{176}	15.6	X	49.51540	216.67817	230.58624	5.62518	0.0167447	0.17887969	3.1195745	21	1 4.7	20.0
197340 2003 WG_{178}	15.9	X	289.89367	137.95856	183.63662	1.64086	0.0678353	0.20305637	2.8667620	21	5 14.5	19.8
197341 2003 WU_{181}	14.9	X	44.14048	123.44480	278.57685	9.93956	0.1317052	0.17095988	3.2151896	21	—	—
197342 2003 WG_{192}	14.9	X	355.80658	148.63036	8.96941	15.25084	0.1259392	0.17966982	3.1104219	21	1 17.5	19.1
197343 2003 XH_{1}	15.1	X	109.58414	64.77824	16.93091	9.91766	0.0808103	0.18795075	3.0183760	21	3 23.1	19.3
197344 2003 XD_{2}	14.9	X	38.87331	27.39531	96.79709	10.34790	0.1799139	0.18093543	3.0959003	21	2 14.9	18.4
197345 2003 XK_{4}	15.5	X	102.08047	354.10943	108.93160	8.27677	0.1586867	0.18797780	3.0180865	21	4 22.6	19.9
197346 2003 XF_{6}	15.5	X	85.84556	129.87668	307.89992	9.48526	0.1995298	0.18188016	3.0851705	21	3 1.2	19.6
197347 2003 XN_{7}	15.3	X	166.95326	337.90132	92.93062	12.82702	0.0954102	0.19372578	2.9580881	21	5 15.6	20.0
197348 2003 XV_{7}	15.5	X	98.01757	125.23151	21.35945	7.60590	0.2888918	0.18967989	3.0000041	21	6 24.5	20.3
197349 2003 XB_{8}	14.9	X	20.86859	162.65777	313.80907	16.81700	0.1872988	0.17733282	3.1376895	21	1 1.3	18.5
197350 2003 XR_{8}	14.2	X	152.98781	34.43700	289.21486	23.03831	0.2792651	0.18021597	3.1041345	21	1 7.9	19.3
197351 2003 XT_{8}	15.0	X	101.59630	1.53843	64.14116	16.33442	0.2300013	0.18317160	3.0706522	21	3 22.7	19.7
197352 2003 XU_{8}	15.4	X	89.07228	77.32849	352.28832	15.43291	0.2065131	0.18224932	3.0810029	21	3 1.9	19.4
197353 2003 XO_{9}	14.8	X	59.78163	123.38827	323.89350	13.18128	0.1126825	0.17875470	3.1210285	21	1 27.9	18.6
197354 2003 XM_{10}	14.2	X	143.83805	344.79775	55.91932	29.92342	0.2754965	0.18199054	3.0839229	21	4 12.3	19.8
197355 2003 XR_{11}	15.0	X	137.12950	196.19573	164.38416	19.99805	0.2321607	0.18292711	3.0733876	21	1 30.3	20.1
197356 2003 XS_{11}	14.9	X	183.00781	286.46271	88.89069	13.93038	0.0843821	0.18886671	3.0086091	21	3 29.2	19.8
197357 2003 XH_{12}	15.7	X	111.39250	270.30773	146.32350	3.40810	0.2030521	0.18434190	3.0576423	21	3 10.4	20.1
197358 2003 XR_{13}	15.0	X	143.14136	290.95304	94.04559	11.38680	0.1384462	0.18516617	3.0485614	21	3 1.9	19.8
197359 2003 XF_{15}	16.9	X	169.59048	237.99947	269.16665	17.15415	0.0783697	0.37225777	1.9138455	21	8 18.9	19.6
197360 2003 XM_{18}	15.2	X	186.02521	324.86223	32.45243	10.61933	0.1079039	0.18761913	3.0219317	21	3 8.7	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197361 2003 XN_{18}	15.0	X	67.20028	171.93183	306.38831	10.30656	0.0651523	0.18518899	3.0483110	21	3 5.9	19.2
197362 2003 XR_{19}	15.8	X	106.38616	142.22709	301.96678	3.88667	0.1695184	0.18627055	3.0364998	21	3 31.1	20.2
197363 2003 XH_{20}	15.5	X	57.18931	74.12068	43.59056	4.72683	0.1186089	0.17971712	3.1098761	21	3 4.2	19.4
197364 2003 XC_{21}	15.4	X	84.51027	52.54363	23.82263	5.00888	0.1295532	0.17913023	3.1166650	21	2 21.2	19.5
197365 2003 XF_{21}	14.8	X	269.56918	45.45018	94.73675	8.66129	0.0485144	0.16011143	3.3588285	21	12 1.6	19.6
197366 2003 XQ_{21}	15.7	X	95.19041	70.22908	57.36704	5.13306	0.1543054	0.18651231	3.0338753	21	5 11.2	19.9
197367 2003 XF_{22}	14.9	X	352.55997	116.92983	34.18567	15.23401	0.1772671	0.17287089	3.1914507	21	—	—
197368 2003 XV_{24}	16.2	X	140.22723	70.67634	332.07682	4.40242	0.1194194	0.18816616	3.0160720	21	3 12.5	20.7
197369 2003 XW_{25}	14.5	X	127.26017	271.70548	97.58281	10.46836	0.1181397	0.18032973	3.1028289	21	1 20.4	19.0
197370 2003 XQ_{31}	15.8	X	221.68270	210.25303	101.82640	2.63059	0.1422740	0.18730564	3.0253025	21	2 12.9	20.7
197371 2003 XR_{34}	15.7	X	115.12079	64.93268	333.35032	8.00956	0.1858579	0.18076718	3.0978210	21	2 18.5	20.1
197372 2003 XA_{35}	15.4	X	101.03389	56.21118	297.03408	14.21355	0.1332423	0.23214315	2.6219967	21	—	—
197373 2003 XD_{36}	15.3	X	180.74953	350.59207	43.66586	11.17136	0.1124644	0.19129589	2.9830849	21	4 14.3	20.0
197374 2003 XQ_{36}	15.1	X	98.82361	338.73533	43.35795	11.55715	0.0921220	0.17662149	3.1461084	21	—	—
197375 2003 XS_{37}	15.7	X	25.04422	51.42414	299.58797	8.26224	0.2042020	0.22022857	2.7157322	21	12 3.5	19.0
197376 2003 XB_{39}	15.3	X	133.91258	3.52001	64.08948	6.99289	0.1467517	0.18617764	3.0375099	21	4 11.5	20.0
197377 2003 XS_{39}	14.8	X	86.11280	16.48461	49.37703	18.27092	0.2628474	0.18061858	3.0995199	21	3 10.2	19.3
197378 2003 XD_{40}	15.7	X	21.92397	236.44710	238.63533	8.91351	0.0511622	0.17819031	3.1276153	21	1 2.7	20.0
197379 2003 XD_{42}	15.6	X	92.54312	51.11361	10.51853	5.33224	0.1412225	0.17858512	3.1230039	21	2 15.3	19.8
197380 2003 YN	14.7	X	107.24751	291.89728	116.28874	17.46208	0.2402721	0.17843372	3.1247703	21	3 5.2	19.5
197381 2003 YZ	17.0	X	336.75357	265.06743	80.02047	21.87700	0.0675108	0.37429581	1.9068919	21	9 28.8	19.3
197382 2003 YZ_{2}	14.9	X	284.45760	334.01171	109.58112	14.86745	0.3655258	0.21364399	2.7712493	21	9 5.1	18.7
197383 2003 YC_{3}	15.0	X	112.78797	25.53990	16.55027	17.31484	0.2072790	0.18017321	3.1046256	21	3 2.1	19.7
197384 2003 YE_{5}	15.9	X	70.92856	232.32715	187.69475	5.88741	0.1547206	0.17846961	3.1243513	21	1 12.7	19.8
197385 2003 YM_{5}	16.0	X	35.12883	266.91409	188.51541	7.43653	0.1771396	0.17659933	3.1463717	21	—	—
197386 2003 YA_{10}	15.5	X	84.23183	100.03358	307.09155	10.40012	0.1980327	0.17916698	3.1162389	21	1 23.8	19.5
197387 2003 YD_{11}	15.6	X	85.95564	31.75877	26.18340	6.68070	0.2772464	0.17996069	3.1070694	21	2 22.9	19.7
197388 2003 YN_{11}	15.4	X	54.63883	130.58595	315.43657	12.39229	0.0799746	0.17636278	3.1491844	21	1 16.4	19.4
197389 2003 YD_{12}	14.4	X	21.50318	219.79078	276.32089	22.37856	0.1016969	0.17948892	3.1125115	21	1 21.9	18.5
197390 2003 YC_{13}	15.0	X	72.11284	100.24998	308.73726	8.84274	0.2351081	0.17498627	3.1656780	21	1 14.3	18.7
197391 2003 YY_{15}	14.9	X	70.22536	32.78130	62.18947	7.98956	0.1524711	0.17749816	3.1357407	21	3 1.6	18.9
197392 2003 YC_{23}	15.5	X	272.89629	290.77946	114.68569	6.35936	0.2827926	0.20585185	2.8407490	21	7 10.2	19.7
197393 2003 YO_{23}	15.5	X	49.18152	122.64002	26.67202	8.44702	0.2447823	0.18325106	3.0697644	21	4 14.3	18.8
197394 2003 YQ_{23}	15.4	X	73.47044	66.74699	14.64647	8.95012	0.1148965	0.18052676	3.1005709	21	2 11.3	19.5
197395 2003 YC_{25}	15.0	X	137.50061	313.90634	84.32715	11.69459	0.1362608	0.18420808	3.0591229	21	3 13.2	19.8
197396 2003 YK_{27}	15.4	X	94.55994	7.08926	93.62820	2.31480	0.1486082	0.18529314	3.0471686	21	4 6.6	19.5
197397 2003 YU_{28}	14.8	X	109.56215	266.05620	81.37734	14.82592	0.2213890	0.17544285	3.1601833	21	—	—
197398 2003 YU_{29}	14.9	X	142.32628	326.84147	76.87709	8.76631	0.2884992	0.18391617	3.0623590	21	4 4.4	20.2
197399 2003 YJ_{30}	15.9	X	94.26915	10.78469	44.02987	3.20038	0.2086784	0.18115686	3.0933770	21	2 18.1	20.0
197400 2003 YX_{30}	15.1	X	109.71827	292.83822	75.73179	11.77205	0.0408521	0.17462601	3.1700304	21	—	—
197401 2003 YQ_{32}	15.3	X	105.40820	100.83384	274.23871	14.22031	0.3148870	0.17761868	3.1343221	21	1 25.2	20.0
197402 2003 YN_{34}	15.6	X	10.43965	70.51619	73.17278	1.92633	0.1410677	0.17746433	3.1361392	21	1 18.4	19.2
197403 2003 YR_{34}	16.3	X	127.83426	73.80768	338.10972	2.03785	0.2136819	0.18579109	3.0417216	21	3 21.5	21.0
197404 2003 YO_{35}	15.1	X	57.77035	297.31904	86.63805	6.41209	0.1401927	0.17081825	3.2169665	21	—	—
197405 2003 YU_{39}	15.3	X	53.61703	127.50627	319.11801	3.57571	0.1644062	0.17473556	3.1687053	21	1 21.6	18.9
197406 2003 YO_{42}	15.2	X	318.56690	267.00702	226.17510	1.37266	0.2381213	0.16472361	3.2958352	21	—	—
197407 2003 YD_{46}	14.8	X	239.57545	201.46515	39.95391	16.22631	0.0332610	0.17518926	3.1632321	21	—	—
197408 2003 YR_{46}	15.8	X	57.42195	17.37323	13.58532	2.57464	0.2051588	0.17313098	3.1882535	21	—	—
197409 2003 YT_{47}	15.2	X	12.04829	229.59339	270.01118	3.85469	0.1098284	0.17805126	3.1292434	21	1 16.9	18.9
197410 2003 YW_{47}	15.0	X	54.50560	336.23453	79.99842	10.27439	0.0850567	0.17402917	3.1772741	21	—	—
197411 2003 YU_{49}	15.7	X	68.12341	104.09397	33.86741	1.28678	0.1671084	0.18528995	3.0472036	21	4 19.4	19.4
197412 2003 YB_{50}	15.3	X	100.70455	112.41055	266.64473	14.84970	0.2086071	0.17749394	3.1357904	21	1 11.2	19.6
197413 2003 YD_{50}	15.6	X	66.52335	6.40204	66.92266	2.83840	0.1155407	0.17767539	3.1336551	21	1 19.9	19.5
197414 2003 YK_{50}	15.4	X	43.56437	42.63064	76.85706	2.54786	0.1535936	0.17921754	3.1156526	21	2 14.1	19.0
197415 2003 YK_{51}	15.1	X	352.43034	46.33990	94.22428	7.53406	0.1440379	0.17221706	3.1995233	21	—	—
197416 2003 YY_{51}	14.9	X	56.89244	127.27158	296.53082	3.94948	0.1253095	0.17313104	3.1882528	21	—	—
197417 2003 YY_{54}	14.8	X	102.65544	301.15568	81.75403	10.88191	0.0766172	0.17822506	3.1272087	21	1 1.7	19.1
197418 2003 YA_{57}	15.4	X	132.49356	288.50653	143.10101	3.38154	0.1958227	0.18868381	3.0105531	21	4 18.2	20.1
197419 2003 YB_{60}	15.4	X	80.24025	98.70730	246.93997	7.98640	0.2396485	0.17112696	3.2130964	21	—	—
197420 2003 YG_{63}	15.0	X	78.48022	327.92438	116.60426	9.53711	0.1915208	0.17950625	3.1123110	21	3 4.8	19.0
197421 2003 YP_{63}	14.9	X	29.46451	67.49718	45.93082	13.17915	0.1116440	0.17472523	3.1688302	21	1 14.7	19.0
197422 2003 YB_{66}	15.4	X	240.57973	88.90127	214.71905	10.69312	0.0146786	0.18501954	3.0501719	21	2 24.8	20.0
197423 2003 YS_{67}	15.7	X	151.24513	267.79897	90.17249	3.95208	0.1197074	0.18245156	3.0787257	21	2 1.4	20.4
197424 2003 YE_{69}	14.7	X	85.85229	185.26286	274.12485	17.72839	0.1955784	0.18033673	3.1027486	21	3 21.4	19.3
197425 2003 YE_{70}	14.9	X	48.10859	14.86128	127.87555	6.06156	0.1134471	0.17963304	3.1108464	21	3 21.7	18.7
197426 2003 YY_{70}	15.0	X	115.21533	8.83347	71.98737	13.67460	0.2029777	0.18710432	3.0274723	21	4 17.6	19.7
197427 2003 YG_{72}	15.2	X	104.93405	355.44112	73.29987	12.95550	0.1386658	0.18344969	3.0675482	21	3 15.6	19.7
197428 2003 YE_{73}	15.1	X	342.69661	205.15288	292.71369	5.51383	0.1398988	0.17215118	3.2003395	21	—	—
197429 2003 YM_{73}	14.5	X	281.23339	269.57513	278.29941	19.53434	0.0392451	0.17043817	3.2217473	21	—	—
197430 2003 YE_{78}	14.9	X	102.83513	287.56271	89.19890	11.39858	0.2495836	0.17637001	3.1490984	21	1 19.9	19.3
197431 2003 YO_{78}	15.9	X	260.73104	181.30962	295.27518	7.94148	0.1435423	0.21149226	2.7900141	21	10 11.8	19.9
197432 2003 YT_{78}	14.2	X	110.59465	77.04151	285.63418	19.71027	0.0529884	0.17134275	3.2103981	21	—	—
197433 2003 YA_{80}	14.8	X	32.69412	200.74741	296.03164	9.49196	0.1969506	0.17765198	3.1339304	21	2 15.3	18.1
197434 2003 YG_{81}	15.1	X	140.34977	4.10068	74.49858	11.01908	0.0753109	0.18887339	3.0085382	21	4 25.6	19.6
197435 2003 YS_{81}	14.7	X	251.95800	292.18866	290.93854	7.98240	0.0444564	0.17010018	3.2260137	21	—	—
197436 2003 YU_{83}	15.4	X	208.32990	284.19032	62.01410	6.36283	0.1930337	0.19130033	2.9830388	21	3 14.2	20.5
197437 2003 YD_{85}	15.2	X	35.09343	323.06930	132.71457	5.93399	0.1405497	0.17566155	3.1575598	21	—	—
197438 2003 YL_{85}	15.1	X	196.62952	262.83934	101.40383	13.31585	0.1362724	0.18934495	3.0035410	21	3 29.1	20.2
197439 2003 YK_{86}	15.5	X	117.22796	179.95704	213.82958	4.61057	0.2749385	0.18273760	3.0755121	21	2 23.8	20.3
197440 2003 YJ_{88}	15.2	X	2.01129	61.48675	110.09933	2.30329	0.1173874	0.17790952	3.1309053	21	2 10.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197441 2003 YN_{94}	15.1	X	326.04205	262.22028	283.00742	8.80208	0.3509790	0.16640175	3.2736391	21	—	—
197442 2003 YV_{94}	14.7	X	347.37301	40.90546	88.63835	10.72787	0.0595659	0.17396171	3.1780955	21	—	—
197443 2003 YK_{96}	15.7	X	100.93930	312.09079	105.27511	7.33750	0.1361781	0.18108567	3.0941878	21	2 19.9	20.0
197444 2003 YQ_{102}	14.7	X	33.63139	0.51578	101.59091	11.98308	0.1422827	0.17143675	3.2092245	21	1 6.3	18.2
197445 2003 YG_{103}	16.7	X	6.74091	62.63615	316.53232	17.61421	0.1340719	0.38058925	1.8858119	21	—	—
197446 2003 YS_{103}	15.1	X	147.64642	292.08880	88.00673	11.76510	0.1435585	0.18577851	3.0418589	21	3 1.5	20.0
197447 2003 YE_{104}	15.1	X	1.58095	19.13228	101.82060	6.33772	0.1292063	0.17301134	3.1897232	21	—	—
197448 2003 YR_{106}	15.4	X	11.08591	274.90849	216.16226	3.75901	0.1443236	0.17266699	3.1939626	21	1 3.9	19.3
197449 2003 YK_{111}	14.9	X	70.66540	194.84003	202.35201	16.31208	0.1793891	0.17631040	3.1498081	21	—	—
197450 2003 YQ_{114}	15.1	X	119.44635	292.85491	117.37648	10.48938	0.1152711	0.18001667	3.1064252	21	3 3.3	19.7
197451 2003 YW_{114}	14.8	X	43.35729	7.37288	93.88386	12.70069	0.1275021	0.17510866	3.1642027	21	1 20.8	18.6
197452 2003 YS_{115}	15.2	X	57.31634	33.12690	42.48164	9.77804	0.0784543	0.17415964	3.1756871	21	1 7.3	19.4
197453 2003 YY_{116}	14.7	X	135.54093	281.12626	82.03861	17.07132	0.2377305	0.17766299	3.1338009	21	2 7.4	19.9
197454 2003 YT_{117}	17.0	X	265.36649	21.83829	315.11514	17.07043	0.0752247	0.36032287	1.9558768	21	4 5.3	19.8
197455 2003 YN_{119}	15.8	X	37.62148	82.11698	355.88730	4.12886	0.1617194	0.17239771	3.1972877	21	—	—
197456 2003 YW_{121}	15.4	X	333.54397	248.68031	241.40447	4.35699	0.1139142	0.17102175	3.2144140	21	—	—
197457 2003 YG_{124}	15.9	X	299.59183	295.95202	72.09234	3.06674	0.0903409	0.20181174	2.8785367	21	7 26.4	19.5
197458 2003 YS_{125}	14.4	X	53.43122	165.33822	285.39254	20.37346	0.0625080	0.17783230	3.1318115	21	1 15.7	18.6
197459 2003 YT_{125}	15.3	X	59.10377	11.40160	47.83476	11.33018	0.2102538	0.17584759	3.1553322	21	—	—
197460 2003 YO_{126}	15.2	X	102.62800	7.24020	30.25182	8.64275	0.2034859	0.17938657	3.1136952	21	2 9.2	19.6
197461 2003 YJ_{127}	15.7	X	117.57321	69.79645	333.63512	9.32471	0.1799631	0.18147340	3.0897789	21	2 25.8	20.1
197462 2003 YN_{129}	14.9	X	30.81048	69.85619	70.34083	9.63247	0.1947598	0.17515987	3.1635859	21	2 24.6	18.4
197463 2003 YP_{129}	16.9	X	204.86994	143.64761	314.70168	19.41710	0.1062725	0.36720120	1.9313752	21	7 31.0	19.1
197464 2003 YY_{130}	15.4	X	314.71597	169.48744	3.47822	5.87531	0.1232461	0.17117340	3.2125153	21	—	—
197465 2003 YQ_{131}	14.9	X	340.46297	148.02049	11.43912	5.48010	0.1249907	0.17387786	3.1791171	21	—	—
197466 2003 YM_{136}	15.4	X	84.23998	44.84230	58.94420	5.97092	0.1845523	0.17938043	3.1137663	21	4 4.4	19.6
197467 2003 YL_{139}	15.2	X	99.79056	32.10307	11.42435	9.15533	0.2013641	0.18047562	3.1011565	21	2 12.4	19.5
197468 2003 YP_{141}	14.8	X	140.82120	1.32175	24.37428	9.10625	0.2254253	0.18377426	3.0639353	21	3 7.6	19.8
197469 2003 YQ_{141}	15.0	X	90.81312	349.02703	61.43820	15.43900	0.1707004	0.17796381	3.1302685	21	2 7.2	19.4
197470 2003 YG_{142}	14.4	X	54.27395	76.21077	68.95694	18.06286	0.2363892	0.18136151	3.0910495	21	4 24.7	18.1
197471 2003 YO_{144}	15.4	X	90.32500	283.20243	157.08176	4.80533	0.1282848	0.18042129	3.1017791	21	3 3.5	19.6
197472 2003 YO_{156}	15.8	X	96.37750	186.14354	218.65692	4.37665	0.1237177	0.18028489	3.1033434	21	1 24.9	20.1
197473 2003 YX_{159}	15.0	X	124.84089	355.10887	24.91687	11.81063	0.1893121	0.18053452	3.1004819	21	2 12.4	19.8
197474 2003 YH_{161}	14.9	X	87.26337	54.28845	44.03011	10.09742	0.0599892	0.18424144	3.0587537	21	3 16.3	19.2
197475 2004 AR_{2}	15.5	X	158.36806	241.12762	289.14896	6.95883	0.1509805	0.19975117	2.8982989	21	9 3.2	20.2
197476 2004 AK_{7}	15.1	X	84.05509	354.49074	70.38322	5.76166	0.1148248	0.17505908	3.1648001	21	2 5.0	19.3
197477 2004 AB_{11}	15.7	X	153.04920	19.26567	23.62453	5.96127	0.1244981	0.18536484	3.0463828	21	3 28.3	20.3
197478 2004 BL_{2}	14.5	X	25.35380	56.72259	124.06593	3.86792	0.1102095	0.12449688	3.9721936	21	4 10.7	19.5
197479 2004 BG_{4}	17.1	X	243.28810	109.03949	306.35410	17.74390	0.1198905	0.36788331	1.9289871	21	7 14.3	19.3
197480 2004 BE_{8}	15.4	X	163.58750	324.97921	310.85709	12.60865	0.1746995	0.21933884	2.7230713	21	—	—
197481 2004 BR_{15}	15.5	X	49.95119	345.08827	100.76295	2.53052	0.1772989	0.17336775	3.1853501	21	1 15.4	19.1
197482 2004 BZ_{21}	16.4	X	313.63237	317.67133	0.88090	19.40564	0.0784982	0.36153283	1.9515105	21	5 26.4	18.7
197483 2004 BG_{24}	15.3	X	82.38991	238.36528	228.97541	1.72997	0.2361258	0.18130544	3.0916868	21	4 11.1	19.4
197484 2004 BQ_{24}	15.9	X	93.01210	102.52654	309.90618	3.36157	0.1879718	0.17614355	3.1517968	21	2 9.8	20.1
197485 2004 BX_{26}	17.2	X	168.12737	95.35980	33.87375	21.59533	0.0885566	0.36347312	1.9445593	21	8 11.2	20.2
197486 2004 BQ_{29}	16.0	X	235.39520	344.21724	96.62417	3.35405	0.1602391	0.19944182	2.9012951	21	7 30.6	20.4
197487 2004 BV_{38}	15.4	X	28.81117	224.78405	105.02644	6.37747	0.1032089	0.20894414	2.8126515	21	10 28.8	19.0
197488 2004 BL_{45}	14.9	X	91.45350	170.76891	273.31608	10.87615	0.1957628	0.18190605	3.0848777	21	3 13.1	19.3
197489 2004 BC_{46}	14.9	X	138.86505	274.07826	96.24974	12.96285	0.1176048	0.18062148	3.0994868	21	2 4.4	19.6
197490 2004 BU_{47}	15.8	X	20.35693	218.92315	309.24317	2.04326	0.1238601	0.17883824	3.1200565	21	3 6.8	19.6
197491 2004 BA_{58}	16.6	X	140.00590	292.21748	143.85878	24.15410	0.1061758	0.35217382	1.9859334	21	4 13.2	19.4
197492 2004 BW_{60}	15.7	X	56.90114	310.89806	125.61936	3.75642	0.1417626	0.17319014	3.1875275	21	1 12.1	19.5
197493 2004 BU_{68}	17.1	X	204.03269	277.46946	182.90462	22.08573	0.1259859	0.36770975	1.9295941	21	7 25.9	20.1
197494 2004 BC_{81}	15.7	X	79.07604	64.24804	39.63802	5.10687	0.1956114	0.17996479	3.1070222	21	3 29.1	19.6
197495 2004 BU_{81}	15.3	X	30.81779	66.86067	20.16329	5.24579	0.1467275	0.17023817	3.2242702	21	—	—
197496 2004 BJ_{83}	14.8	X	65.46179	271.83583	171.80690	25.72311	0.2813239	0.17722936	3.1389106	21	2 20.4	18.5
197497 2004 BP_{85}	14.7	X	17.12969	260.61681	233.31508	24.24334	0.2511034	0.17437036	3.1731281	21	1 5.0	18.4
197498 2004 BU_{85}	17.1	X	126.24939	282.65635	163.38092	23.42315	0.0885289	0.35271620	1.9838969	21	3 31.9	19.3
197499 2004 BB_{87}	16.2	X	232.04128	263.80396	139.22564	23.86777	0.1283359	0.36159690	1.9512800	21	6 12.5	19.3
197500 2004 BX_{90}	15.0	X	56.70821	295.62191	145.70119	10.97636	0.2056388	0.17185448	3.2040219	21	1 24.2	18.7
197501 2004 BS_{91}	14.6	X	280.18728	295.02868	170.92720	16.73025	0.1244276	0.15452918	3.4392392	21	10 26.3	19.4
197502 2004 BA_{96}	17.2	X	89.87213	138.24726	346.77730	18.53922	0.0746742	0.35213525	1.9860784	21	3 22.7	19.0
197503 2004 BN_{97}	15.8	X	222.98768	294.47644	117.43918	3.08933	0.1118619	0.19472820	2.9479276	21	6 15.0	20.2
197504 2004 BS_{117}	15.5	X	143.72561	2.62090	45.88212	5.99379	0.2831383	0.18550236	3.0448770	21	4 7.9	20.6
197505 2004 BG_{120}	15.3	X	40.65084	83.64874	46.56116	16.06619	0.2087912	0.17633683	3.1494934	21	3 8.4	19.0
197506 2004 BP_{120}	14.7	X	10.77882	100.61785	60.09708	27.02932	0.1413388	0.17525819	3.1624027	21	2 23.9	19.1
197507 2004 BR_{145}	14.8	X	126.52167	293.27767	104.10748	9.61827	0.1563047	0.18180891	3.0859764	21	2 28.8	19.5
197508 2004 BV_{148}	15.6	X	61.56735	13.01143	65.95145	3.15793	0.0701029	0.17311191	3.1884878	21	1 16.4	19.7
197509 2004 BF_{163}	15.3	X	49.85670	204.06106	205.09198	7.37068	0.0876985	0.16796364	3.2533131	21	—	—
197510 2004 CE_{3}	17.3	X	171.89203	107.44319	35.22597	21.27375	0.0789490	0.36726154	1.9311637	21	9 8.9	20.1
197511 2004 CA_{19}	15.8	X	58.75839	265.20557	158.08880	1.61315	0.1644700	0.17210179	3.2009517	21	—	—
197512 2004 CN_{28}	15.8	X	60.53368	305.22997	114.82670	3.66588	0.1592784	0.17134362	3.2103872	21	—	—
197513 2004 CF_{36}	14.9	X	26.49332	49.82645	48.15446	13.49467	0.0808910	0.16736516	3.2610641	21	—	—
197514 2004 CC_{52}	17.1	X	23.64417	174.00373	46.80837	22.27462	0.0536634	0.35267246	1.9840610	21	5 4.2	18.7
197515 2004 CX_{57}	15.1	X	285.22530	229.85012	94.86658	12.67518	0.0057576	0.18887253	3.0085473	21	5 24.8	19.4
197516 2004 CG_{89}	15.6	X	340.90876	218.00029	106.31431	7.41775	0.0496184	0.19655219	2.9296616	21	8 2.4	19.4
197517 2004 CU_{103}	15.4	X	62.58599	258.27639	288.07608	3.86129	0.1203708	0.18307762	3.0717029	21	6 7.0	19.3
197518 2004 CJ_{106}	14.9	X	329.77304	354.66519	292.97944	13.33305	0.0694986	0.18524181	3.0477315	21	5 24.6	19.1
197519 2004 DF_{1}	14.7	X	101.31813	278.33264	150.29720	23.49142	0.2909480	0.17939727	3.1135714	21	3 29.3	19.6
197520 2004 DP_{10}	15.6	X	60.99146	72.93644	19.16110	3.91098	0.1898827	0.17368749	3.1814396	21	2 14.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197521 2004 DF_{21}	17.0	X	175.08402	79.35777	334.51735	16.20220	0.1292134	0.35330338	1.9816982	21	4 9.5	19.9
197522 2004 DS_{22}	15.2	X	79.57857	36.88701	125.16241	3.61408	0.1761289	0.18248711	3.0783258	21	6 8.1	19.3
197523 2004 DQ_{39}	17.3	X	108.13375	123.88349	320.84317	16.94304	0.0717231	0.34814395	2.0012291	21	2 20.2	19.1
197524 2004 DN_{44}	17.8	X	91.40111	91.62498	164.32404	6.50150	0.0786021	0.31246574	2.1508054	21	10 23.9	20.4
197525 Versteeg	16.2	X	131.03827	311.83184	135.54075	0.61070	0.1493044	0.18211464	3.0825217	21	4 30.7	20.9
197526 2004 EF_{3}	15.4	X	120.59896	52.25250	122.11956	13.34010	0.1158645	0.19008546	2.9957354	21	8 3.0	20.0
197527 2004 EL_{17}	15.0	X	73.12043	36.34908	87.48634	9.04239	0.1979841	0.17557709	3.1585722	21	4 18.7	19.2
197528 2004 EM_{19}	14.6	X	75.41764	150.35605	1.68270	8.31632	0.0848961	0.12347362	3.9941091	21	5 8.2	20.1
197529 2004 EU_{26}	15.5	X	287.34859	105.29289	343.26241	4.88176	0.0815260	0.14841616	3.5330403	21	10 14.8	20.3
197530 2004 EH_{32}	17.1	X	11.44259	75.87876	222.50252	3.73148	0.1998540	0.30218870	2.1992971	21	9 3.9	18.4
197531 2004 EL_{45}	17.9	X	81.37322	99.22261	165.78879	2.95608	0.1726164	0.30915683	2.1661249	21	11 2.4	20.7
197532 2004 ED_{57}	16.4	X	154.94165	232.97197	205.23972	20.45407	0.0961762	0.35349511	1.9809816	21	4 27.8	18.6
197533 2004 EZ_{59}	16.9	X	18.36636	329.20670	307.17914	4.87212	0.2115499	0.29745701	2.2225587	21	8 15.1	18.1
197534 2004 EL_{61}	15.7	X	112.96087	233.11582	247.47027	1.12538	0.1586577	0.18267928	3.0761666	21	5 23.4	20.3
197535 2004 EH_{62}	17.4	X	36.79771	253.64944	353.40461	2.53659	0.1286838	0.29945140	2.2126793	21	7 24.3	19.4
197536 2004 EJ_{64}	15.3	X	106.03949	1.90854	98.00614	12.25506	0.0905724	0.17876758	3.1208786	21	4 17.2	19.9
197537 2004 EW_{71}	14.5	X	142.70698	110.94332	347.68547	8.66676	0.1568641	0.12680466	3.9238515	21	5 26.5	20.7
197538 2004 EH_{79}	17.1	X	99.18807	189.63068	52.68725	3.54272	0.1427213	0.30644070	2.1789056	21	10 19.0	20.0
197539 2004 EJ_{83}	17.5	X	135.30709	302.81687	321.76267	2.11093	0.1553051	0.31632554	2.1332735	21	12 23.7	20.5
197540 2004 EF_{84}	17.0	X	68.14400	92.14813	149.00233	4.83864	0.1210937	0.30134164	2.2034166	21	9 4.8	19.3
197541 2004 EB_{85}	17.5	X	71.43317	43.34086	201.29914	3.73210	0.0983761	0.30517872	2.1849083	21	9 9.5	20.0
197542 2004 EU_{97}	15.7	X	144.24328	350.37474	77.54081	2.36623	0.1725522	0.18037747	3.1022814	21	4 22.8	20.6
197543 2004 FO_{2}	15.9	X	261.60677	103.78815	196.61091	20.68621	0.2645407	0.28291177	2.2980988	21	2 10.6	20.2
197544 2004 FP_{11}	15.2	X	85.99606	229.95291	314.55492	7.97887	0.0806327	0.18493444	3.0511076	21	7 1.7	19.5
197545 2004 FG_{12}	15.1	X	69.71740	245.94068	310.65001	8.46613	0.2826557	0.18256032	3.0775027	21	7 26.2	19.2
197546 2004 FE_{16}	17.5	X	105.69147	271.22683	340.18242	3.91306	0.1428805	0.31121935	2.1565440	21	11 5.1	20.5
197547 2004 FR_{27}	17.6	X	130.87907	223.49967	351.95671	4.97314	0.0768294	0.31024951	2.1610359	21	10 11.9	20.5
197548 2004 FY_{30}	16.2	X	317.59302	217.95721	70.84557	23.90401	0.2410514	0.28826248	2.2695720	21	4 16.2	19.3
197549 2004 FW_{36}	16.8	X	359.05698	243.56380	49.74875	4.80830	0.1749369	0.29766702	2.2215132	21	7 24.1	18.2
197550 2004 FS_{46}	17.1	X	162.46351	271.97377	310.81218	2.19083	0.1081890	0.31447501	2.1416342	21	11 27.9	20.0
197551 2004 FZ_{57}	17.4	X	28.20628	102.24791	191.61819	4.90459	0.1969053	0.30393355	2.1908717	21	10 4.3	19.1
197552 2004 FC_{68}	16.4	X	272.55502	246.56843	32.60801	23.02650	0.2317984	0.27987278	2.3147048	21	2 12.2	20.6
197553 2004 FD_{85}	14.7	X	49.13784	37.70531	121.12699	7.79069	0.1330487	0.17487635	3.1670044	21	4 17.4	18.7
197554 2004 FB_{98}	14.1	X	77.71126	105.40804	72.14898	11.31720	0.1059849	0.12549649	3.9510725	21	6 15.8	19.5
197555 2004 FR_{107}	17.5	X	32.09786	152.88081	112.56022	3.86123	0.1985401	0.29815151	2.2191060	21	8 27.7	19.2
197556 2004 FY_{115}	17.4	X	45.17877	161.50467	121.34985	7.82912	0.1924336	0.30405674	2.1902799	21	10 18.8	19.9
197557 2004 FC_{116}	16.8	X	353.22686	228.49727	64.08487	7.43887	0.2066197	0.29684502	2.2256124	21	7 3.6	18.0
197558 2004 FL_{122}	14.0	X	127.84503	256.49166	208.52782	7.73309	0.0825225	0.12353660	3.9927516	21	5 15.8	19.9
197559 2004 FU_{125}	17.3	X	46.72998	75.21970	179.60298	5.42546	0.1364381	0.30097810	2.2051905	21	8 23.7	19.6
197560 2004 FH_{128}	17.0	X	7.93220	331.27678	343.93989	3.94150	0.1756245	0.30342955	2.1932971	21	9 23.1	18.3
197561 2004 FR_{129}	16.7	X	16.26479	291.07930	311.74689	4.71749	0.0558480	0.29635509	2.2280646	21	5 29.9	18.9
197562 2004 FO_{140}	17.1	X	42.31152	300.16424	320.67437	3.60144	0.1446502	0.30109457	2.2046218	21	8 27.7	19.1
197563 2004 FH_{148}	12.7	X	158.48525	20.78827	210.11944	30.33748	0.0905825	0.08288615	5.2097243	21	11 4.2	20.0
197564 2004 GG_{2}	16.4	X	224.60557	78.34024	247.59695	20.98818	0.3184319	0.28087525	2.3091939	21	2 8.8	21.2
197565 2004 GG_{9}	16.9	X	69.97443	275.48023	10.58284	3.94869	0.1560173	0.30646946	2.1787693	21	11 13.6	19.7
197566 2004 GC_{11}	16.8	X	308.71995	244.09002	31.16881	5.90848	0.1543318	0.28452576	2.2893999	21	3 17.4	19.5
197567 2004 GN_{12}	17.1	X	53.63271	29.40338	256.01087	5.06107	0.1655819	0.30464665	2.1874515	21	10 23.9	19.6
197568 2004 GM_{15}	14.9	X	71.57693	75.37929	106.28040	26.02698	0.2787601	0.17940680	3.1134611	21	7 8.3	19.1
197569 2004 GY_{22}	17.5	X	91.49520	84.49728	196.71667	2.93769	0.1650625	0.30981540	2.1630541	21	12 2.9	20.5
197570 2004 GZ_{29}	17.2	X	104.71451	158.76092	95.73998	0.71497	0.1542361	0.30800067	2.1715422	21	11 10.3	20.4
197571 2004 GQ_{30}	16.9	X	75.82709	95.14679	128.86196	2.99457	0.1133450	0.29912330	2.2142971	21	8 19.8	19.4
197572 2004 GF_{33}	16.7	X	42.74409	8.67489	216.75390	6.75558	0.1637023	0.29467454	2.2365278	21	7 3.9	18.8
197573 2004 GP_{33}	17.5	X	70.90976	42.72897	204.85140	2.72713	0.1117931	0.30277445	2.1964597	21	9 15.3	19.9
197574 2004 GU_{33}	16.7	X	21.92580	218.76636	51.30617	8.61307	0.1299936	0.29582979	2.2307014	21	8 4.8	18.8
197575 2004 GW_{36}	16.4	X	149.23484	250.18265	242.36378	18.98038	0.0774653	0.35632792	1.9704684	21	7 5.2	19.0
197576 2004 GX_{40}	17.6	X	354.88343	322.43750	326.15401	1.59573	0.1662218	0.29562580	2.2317275	21	7 2.2	19.0
197577 2004 GF_{47}	16.0	X	67.75807	305.67268	177.90480	0.52869	0.1537870	0.17226990	3.1988690	21	3 31.1	20.0
197578 2004 GX_{79}	17.5	X	321.95464	67.17120	231.14364	4.35166	0.1864188	0.29112021	2.2546950	21	5 1.8	19.7
197579 2004 HP	16.6	X	3.52476	267.28672	46.17214	7.86898	0.1889512	0.30090226	2.2055610	21	9 17.2	18.1
197580 2004 HZ_{1}	17.7	X	49.02439	240.40983	47.60198	4.28641	0.1735886	0.30284324	2.1961271	21	10 24.8	20.0
197581 2004 HQ_{2}	17.2	X	56.18835	96.74588	228.28512	1.75613	0.1396412	0.31134685	2.1559552	21	12 19.7	19.9
197582 2004 HP_{4}	16.9	X	55.75108	212.65207	50.47384	5.33259	0.1002830	0.30232593	2.1986315	21	9 18.1	19.3
197583 2004 HX_{5}	17.3	X	279.68549	49.61009	187.57760	4.61807	0.1884804	0.27519487	2.3408621	21	—	—
197584 2004 HJ_{9}	17.2	X	55.42449	225.48748	8.54901	3.54794	0.0749915	0.29842373	2.2177563	21	7 28.4	19.5
197585 2004 HA_{10}	16.7	X	89.42389	212.78073	80.07717	7.07835	0.1181458	0.30979259	2.1631603	21	12 11.9	19.7
197586 2004 HQ_{11}	12.6	X	19.63108	164.36302	201.79502	11.72130	0.0219605	0.08434237	5.1495845	21	10 31.3	19.4
197587 2004 HR_{11}	17.4	X	229.49599	145.10885	141.36247	3.07337	0.2114420	0.27368426	2.3494678	21	1 7.0	21.2
197588 2004 HE_{12}	17.1	X	317.53422	162.24206	338.04274	42.73083	0.4663093	0.39332565	1.8448789	21	—	—
197589 2004 HC_{20}	17.2	X	47.49219	44.40629	225.33972	3.73504	0.1360831	0.30074600	2.2063249	21	9 16.4	19.5
197590 2004 HT_{30}	16.4	X	289.92599	249.15439	83.01028	11.66597	0.2653772	0.28773654	2.2723368	21	4 27.2	19.6
197591 2004 HQ_{36}	17.0	X	357.65340	75.77642	219.87198	5.60686	0.1888841	0.29571039	2.2313018	21	7 20.7	18.4
197592 2004 HH_{38}	16.4	X	339.84044	212.36583	95.90631	6.14794	0.1890810	0.29548856	2.2324185	21	6 26.9	17.6
197593 2004 HA_{43}	12.3	X	288.39268	215.64933	232.30600	22.85621	0.0238532	0.08157007	5.2656117	21	10 12.7	19.4
197594 2004 HD_{49}	17.5	X	304.16748	274.48249	45.97899	3.52129	0.2653226	0.29095603	2.2555432	21	4 23.6	20.2
197595 2004 HH_{60}	17.4	X	341.73583	42.82499	240.66085	3.84392	0.2673149	0.28956076	2.2627830	21	5 3.2	18.9
197596 2004 HV_{61}	17.1	X	76.19120	27.15739	241.03544	4.30942	0.1482010	0.30484648	2.1864955	21	10 26.6	19.9
197597 2004 HZ_{61}	16.5	X	27.19195	157.28472	133.96863	6.71212	0.1643606	0.30026570	2.2086771	21	9 24.7	18.5
197598 2004 HR_{62}	17.0	X	98.45771	64.81134	266.80997	0.67979	0.1528349	0.31695260	2.1304589	21	—	—
197599 2004 JY_{2}	17.5	X	106.46767	32.01328	249.68355	1.15360	0.1929887	0.31012292	2.1616239	21	12 18.6	20.8
197600 2004 JC_{3}	17.6	X	0.80539	261.97009	17.52175	1.60089	0.1864790	0.29292723	2.2454129	21	6 30.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197601 2004 JE_3	17.7	X	109.51838	1.86192	234.16465	3.52813	0.0837784	0.30539524	2.1838755	21	10 15.1	20.4
197602 2004 JT_4	17.5	X	4.28091	65.45519	232.53419	4.69909	0.1998387	0.29568549	2.2314271	21	8 13.4	19.0
197603 2004 JF_8	17.7	X	338.03033	140.18541	192.93180	3.60531	0.1881813	0.29810569	2.2193333	21	8 6.7	18.9
197604 2004 JS_{14}	16.8	X	72.02365	217.57828	93.16373	5.08217	0.1921369	0.30769614	2.1729748	21	12 23.1	19.7
197605 2004 JH_{15}	15.6	X	333.34642	197.21436	99.54119	3.22309	0.1355369	0.17637791	3.1490043	21	6 6.6	19.3
197606 2004 JP_{16}	17.3	X	68.51982	101.40926	170.74817	2.26142	0.1294658	0.30328704	2.1939841	21	10 21.5	20.0
197607 2004 JQ_{16}	16.9	X	239.30201	32.23396	230.80106	4.47719	0.1583358	0.27187098	2.3599030	21	—	—
197608 2004 JR_{16}	17.7	X	279.97674	65.59528	211.34448	2.54688	0.1932474	0.27989281	2.3145943	21	2 7.1	21.1
197609 2004 JY_{16}	17.0	X	4.21160	112.78848	128.01741	4.69332	0.1184477	0.28901914	2.2656091	21	5 6.2	18.9
197610 2004 JR_{18}	16.9	X	19.92012	189.89549	100.57148	3.60527	0.1200944	0.29893257	2.2152389	21	8 31.7	18.8
197611 2004 JJ_{20}	17.0	X	113.01041	49.31929	191.54399	3.50416	0.0909419	0.30586855	2.1816220	21	10 28.0	19.8
197612 2004 JM_{20}	17.1	X	33.26628	203.38894	70.67071	7.72400	0.1355157	0.29688102	2.2254325	21	9 5.1	19.4
197613 2004 JU_{23}	17.3	X	352.36067	106.89597	203.77317	2.48211	0.1607969	0.29717564	2.2239614	21	8 4.4	18.6
197614 2004 JP_{24}	16.8	X	6.58258	108.45557	221.24051	3.45225	0.1338942	0.30206650	2.1998902	21	10 7.9	18.6
197615 2004 JQ_{26}	17.3	X	353.94944	230.86706	51.42579	7.52780	0.2655714	0.29087142	2.2559805	21	6 8.2	18.1
197616 2004 JG_{32}	17.6	X	83.10520	252.05980	34.72630	5.47696	0.1798362	0.30803360	2.1713875	21	12 1.5	20.8
197617 2004 JD_{34}	17.2	X	38.60283	61.98600	198.21298	5.94309	0.1460989	0.29611989	2.2292443	21	8 17.9	19.3
197618 2004 JK_{34}	16.4	X	274.67000	178.71737	101.84938	6.23575	0.2399253	0.27796787	2.3252678	21	2 5.1	20.0
197619 2004 JC_{37}	12.4	X	173.25840	334.77619	245.46364	23.33571	0.0665861	0.08363379	5.1786299	21	11 4.7	19.7
197620 2004 JL_{39}	12.5	X	109.97729	198.39165	88.74121	18.08852	0.0743908	0.08280447	5.2131496	21	11 21.5	19.7
197621 2004 JN_{40}	17.1	X	105.95162	359.71906	146.82504	7.35307	0.0932359	0.29249923	2.2476028	21	6 6.1	19.9
197622 2004 JA_{41}	16.7	X	244.18548	166.22243	155.98853	10.64606	0.2768801	0.27681827	2.3317011	21	2 28.5	20.7
197623 2004 JY_{41}	17.6	X	96.54827	64.57707	185.59236	5.52735	0.1768713	0.30444243	2.1884297	21	10 29.6	20.7
197624 2004 JO_{43}	12.8	X	177.51708	0.62101	204.24598	7.65925	0.0718027	0.08344293	5.1865237	21	10 24.6	19.9
197625 2004 JJ_{44}	17.2	X	76.08988	41.09646	178.62778	5.79549	0.0900188	0.29774404	2.2211301	21	8 7.7	19.8
197626 2004 JM_{45}	16.3	X	67.98058	164.91999	170.20263	5.12136	0.1488281	0.31093664	2.1578510	21	—	—
197627 2004 KO	17.6	X	327.32535	218.63430	33.67291	3.29973	0.2004442	0.28361680	2.2942888	21	3 3.6	20.1
197628 2004 KS_1	13.0	X	319.75233	17.82722	50.17592	6.75793	0.0603243	0.08403221	5.1622479	21	10 27.9	19.6
197629 2004 KH_3	17.8	X	18.94996	242.67399	56.24918	4.14669	0.1702469	0.29794562	2.2201282	21	9 21.2	19.6
197630 2004 KJ_4	12.5	X	288.39781	54.98311	49.19509	7.32758	0.0648391	0.08307732	5.2017289	21	10 29.7	19.3
197631 2004 KN_8	16.9	X	46.26531	154.64475	103.44976	3.88393	0.0919941	0.29856550	2.2170541	21	8 22.8	19.2
197632 2004 KV_9	16.9	X	278.13271	26.09719	253.54582	10.06244	0.2433226	0.27893075	2.3199135	21	2 1.8	20.8
197633 2004 KD_{10}	16.7	X	28.04815	333.00041	352.18869	4.04159	0.2003743	0.30325051	2.1941603	21	11 19.3	19.1
197634 2004 KV_{10}	17.4	X	53.93616	155.31468	111.41729	5.55313	0.1070732	0.30028045	2.2086048	21	9 21.7	19.9
197635 2004 KS_{11}	17.3	X	6.15918	206.29213	100.68585	7.94986	0.1595312	0.29691971	2.2252392	21	9 6.9	19.1
197636 2004 KU_{16}	17.2	X	302.15740	130.25145	112.15904	2.28881	0.1478584	0.27129217	2.3632584	21	1 25.3	20.5
197637 2004 KB_{18}	16.3	X	229.21434	340.44090	10.87349	11.43812	0.2490623	0.27425403	2.3462126	21	3 26.2	20.4
197638 2004 LM	16.6	X	7.27606	32.65111	202.34840	22.91868	0.1880536	0.28677943	2.2773899	21	4 28.1	18.1
197639 2004 LJ_2	17.1	X	51.46360	335.81141	258.80979	3.29738	0.1087884	0.29450706	2.2373757	21	7 26.0	19.2
197640 2004 LE_8	16.4	X	225.26728	63.79506	290.39913	7.75223	0.2257126	0.27373662	2.3491682	21	3 22.3	20.5
197641 2004 LG_8	16.7	X	263.46050	0.27956	291.14524	11.05292	0.2525021	0.27449609	2.3448331	21	2 5.0	20.6
197642 2004 LF_{11}	17.3	X	22.40172	107.41462	177.31591	4.12002	0.1288584	0.29654062	2.2271352	21	8 25.3	19.1
197643 2004 LO_{11}	17.6	X	51.66686	195.95520	54.83849	2.10913	0.1570963	0.29702606	2.2247080	21	8 31.7	19.9
197644 2004 LD_{22}	16.4	X	162.94304	304.73048	345.46703	3.18686	0.2499383	0.25688509	2.4508126	21	—	—
197645 2004 LE_{25}	17.0	X	269.15725	177.70491	130.01765	3.55972	0.2366824	0.27746740	2.3280631	21	3 5.9	20.7
197646 2004 LK_{25}	16.3	X	213.33336	213.59817	112.95089	9.72115	0.2581454	0.26956966	2.3733150	21	2 13.9	20.5
197647 2004 LG_{28}	17.4	X	215.12337	126.09094	181.25763	6.92677	0.1480360	0.26789332	2.3832053	21	1 19.2	21.2
197648 2004 LT_{29}	17.1	X	274.34512	276.34164	133.92139	6.93379	0.0827176	0.29311475	2.2444551	21	8 23.8	19.6
197649 2004 MT	17.0	X	90.31814	61.29604	175.85603	4.13766	0.0821316	0.30087616	2.2056886	21	9 22.9	19.8
197650 2004 MH_1	16.9	X	247.73062	91.51126	206.67968	4.23843	0.2100220	0.27114582	2.3641087	21	2 3.9	20.9
197651 2004 MW_1	16.6	X	235.30163	11.40616	316.83193	5.17780	0.2166647	0.27415324	2.3467876	21	3 1.8	20.5
197652 2004 MW_6	17.1	X	267.15831	241.32189	60.43377	3.33711	0.2223834	0.27625543	2.3348671	21	2 26.7	20.7
197653 2004 MH_8	15.9	X	208.66670	278.72971	357.17426	12.93779	0.2389620	0.26402554	2.4064237	21	—	—
197654 2004 NX	16.6	X	294.00582	2.28817	277.99349	6.17786	0.1041598	0.27777383	2.3263506	21	3 7.8	19.6
197655 2004 NZ	17.3	X	278.53697	125.24227	194.20132	1.70321	0.2033824	0.27983585	2.3149084	21	4 1.1	20.6
197656 2004 NK_1	17.0	X	226.11863	17.85563	332.61913	4.21817	0.1646167	0.27445921	2.3450432	21	3 23.0	20.7
197657 2004 NL_1	16.7	X	196.27370	335.53564	342.37508	5.49541	0.1873801	0.26564043	2.3966609	21	1 19.3	20.5
197658 2004 NM_1	16.1	X	203.53205	29.79574	299.40962	6.95387	0.1395452	0.26665061	2.3906041	21	2 4.7	19.9
197659 2004 NA_2	16.6	X	339.93490	9.03905	293.68006	5.50150	0.1840147	0.28595210	2.2817805	21	6 18.0	18.2
197660 2004 NE_2	16.6	X	164.11810	335.46536	19.18752	2.87676	0.2030184	0.26474333	2.4020721	21	2 5.4	20.2
197661 2004 NN_3	16.8	X	239.96153	230.39212	104.51944	7.86003	0.1858913	0.27572934	2.3378361	21	3 20.3	20.6
197662 2004 NX_3	16.9	X	241.63446	117.64156	188.08717	2.01976	0.2058674	0.27219888	2.3580074	21	2 8.9	20.7
197663 2004 NA_5	16.8	X	249.57048	352.90394	307.70445	1.94389	0.1987641	0.27327274	2.3518259	21	2 9.9	20.6
197664 2004 NR_5	16.7	X	124.49228	259.60679	81.52270	5.48911	0.2016750	0.25680300	2.4513349	21	—	—
197665 2004 NF_6	16.9	X	271.54706	152.99652	152.97382	5.96287	0.1720011	0.27648673	2.3335647	21	3 11.8	20.2
197666 2004 NM_6	16.5	X	213.07514	148.57301	155.82032	7.49196	0.1081283	0.26608518	2.3939896	21	1 13.7	20.2
197667 2004 NK_{10}	16.3	X	212.20931	244.29041	115.48140	7.88393	0.2072404	0.27236384	2.3570552	21	3 26.8	20.3
197668 2004 NG_{12}	16.9	X	183.55424	313.60069	20.51650	2.98122	0.2459839	0.26487396	2.4012822	21	1 31.1	20.9
197669 2004 NY_{13}	16.9	X	238.52845	221.08305	108.46564	7.91078	0.1591611	0.27290268	2.3539516	21	3 13.4	20.6
197670 2004 NL_{14}	17.3	X	174.80701	167.61320	169.84667	3.69817	0.2257259	0.26452608	2.4033871	21	1 25.1	21.3
197671 2004 NQ_{14}	17.1	X	284.12802	354.38560	273.54878	3.76505	0.1601307	0.27468707	2.3437461	21	2 3.9	20.6
197672 2004 NB_{15}	17.1	X	195.66995	228.62708	135.16765	7.63633	0.2736402	0.27007483	2.3703545	21	3 18.2	21.3
197673 2004 NJ_{15}	17.1	X	265.44630	192.35958	138.88715	3.68874	0.1836698	0.27866490	2.3213887	21	4 6.7	20.4
197674 2004 NU_{15}	16.9	X	152.00143	132.58365	203.96762	1.57248	0.2082485	0.26043778	2.4284736	21	1 2.3	20.4
197675 2004 NX_{16}	17.5	X	163.45811	145.51763	197.11438	1.95790	0.2063003	0.26348864	2.4096916	21	1 19.9	21.1
197676 2004 NM_{20}	16.7	X	194.31933	113.33935	206.87033	3.84032	0.2472062	0.26550957	2.3974484	21	1 20.9	20.8
197677 2004 NP_{20}	16.4	X	162.37443	55.68320	248.71905	5.47240	0.1404448	0.25862956	2.4397797	21	—	—
197678 2004 NR_{21}	16.9	X	268.42174	182.76805	129.57089	5.78137	0.2393630	0.27596783	2.3364890	21	3 11.8	20.6
197679 2004 NN_{23}	16.9	X	156.56970	119.11642	227.19584	4.49485	0.1331924	0.26249611	2.4157620	21	1 9.7	20.3
197680 2004 NA_{24}	16.4	X	138.39834	60.68439	276.20036	6.95014	0.1688165	0.25681904	2.4512329	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197681 2004 NL_{24}	16.7	X	208.82128	59.91896	256.80722	3.74208	0.2085896	0.26515367	2.3995932	21	1 26.9	20.6
197682 2004 NC_{26}	17.1	X	240.83231	64.45667	276.20570	6.15300	0.2326174	0.27544022	2.3394718	21	3 18.7	21.1
197683 2004 NK_{26}	17.2	X	250.61071	52.54862	243.92105	1.71966	0.1804842	0.27240940	2.3567924	21	2 6.3	20.8
197684 2004 NL_{27}	16.9	X	262.12107	355.25305	275.20673	4.78364	0.2200165	0.27140710	2.3625912	21	1 13.9	20.8
197685 2004 NQ_{27}	16.6	X	233.11649	87.82821	152.82562	5.72308	0.1636666	0.26197377	2.4189720	21	—	—
197686 2004 NK_{28}	17.4	X	320.98248	125.12051	187.79424	1.73046	0.1414359	0.28609744	2.2810076	21	6 1.5	19.6
197687 2004 NJ_{29}	16.6	X	241.89144	6.37517	265.80180	5.78587	0.1710910	0.26705379	2.3881974	21	1 1.6	20.4
197688 2004 NU_{30}	16.5	X	168.74158	245.13791	107.18443	3.16951	0.2508507	0.26431558	2.4046629	21	2 9.9	20.4
197689 2004 NO_{31}	15.6	X	163.84622	88.23064	209.60115	21.65600	0.2078256	0.25616303	2.4554160	21	—	—
197690 2004 OE_{2}	17.0	X	134.43365	140.89196	187.83100	2.10896	0.2049883	0.25750942	2.4468497	21	—	—
197691 2004 OB_{3}	16.9	X	203.03891	165.65348	195.93839	1.96183	0.2144816	0.27096468	2.3651622	21	3 17.6	20.7
197692 2004 OJ_{3}	17.0	X	319.94496	345.76787	307.32340	4.44946	0.1611153	0.28277055	2.2988639	21	4 23.6	19.6
197693 2004 OF_{4}	16.6	X	197.37708	321.60592	348.54346	5.19207	0.2430005	0.26552816	2.3973365	21	1 13.2	20.7
197694 2004 OP_{4}	17.2	X	222.76664	205.36512	128.29394	2.99626	0.2226874	0.27209227	2.3586233	21	2 28.3	21.1
197695 2004 OV_{4}	17.0	X	219.11650	168.78504	118.87577	3.92186	0.2327467	0.26656898	2.3910921	21	1 1.7	21.1
197696 2004 OW_{4}	16.7	X	201.76393	99.45881	204.88315	1.07231	0.1832331	0.26486728	2.4013226	21	1 6.4	20.4
197697 2004 OC_{5}	16.9	X	169.82867	306.90232	25.13940	1.31752	0.2282419	0.26208312	2.4182991	21	1 15.8	20.8
197698 2004 OE_{6}	16.6	X	165.42984	291.43143	48.38675	8.33499	0.2527650	0.26025452	2.4296135	21	1 25.5	20.7
197699 2004 ON_{7}	16.4	X	125.64992	50.03031	298.81659	7.31566	0.1747101	0.25844022	2.4409712	21	—	—
197700 2004 OV_{7}	17.5	X	175.09241	206.43987	131.35349	2.98703	0.2502911	0.26426491	2.4049703	21	1 28.0	21.3
197701 2004 OS_{8}	16.7	X	241.30628	183.10826	105.29969	4.73423	0.1333326	0.27031792	2.3689333	21	1 21.9	20.3
197702 2004 OB_{9}	16.9	X	174.22861	47.73816	265.45297	1.55509	0.2063084	0.26184101	2.4197896	21	—	—
197703 2004 OL_{9}	17.5	X	296.04767	298.59025	33.34648	3.49354	0.2095259	0.28383745	2.2930996	21	5 7.8	20.1
197704 2004 OQ_{9}	16.0	X	207.63684	346.30782	313.72115	15.09760	0.2983269	0.26604447	2.3942338	21	1 11.3	20.4
197705 2004 OV_{11}	16.2	X	247.85524	337.37578	345.86511	6.66367	0.1175549	0.27336676	2.3512867	21	3 13.0	19.6
197706 2004 PH	16.9	X	160.82305	171.60432	209.20264	3.63327	0.2140534	0.26494121	2.4008759	21	3 5.3	20.8
197707 Paulnohr	16.9	X	343.49225	36.89359	261.32252	6.88697	0.1850632	0.28595723	2.2817532	21	6 18.6	18.3
197708 Kalipona	17.0	X	167.23222	340.96424	36.50064	3.15010	0.1975357	0.26825002	2.3810922	21	3 7.9	20.6
197709 2004 PE_{2}	16.8	X	22.30435	305.48241	347.73751	6.96825	0.1855078	0.29238284	2.2481993	21	9 17.2	18.6
197710 2004 PU_{2}	15.8	X	202.59941	278.81238	39.68996	22.03081	0.3463420	0.26417011	2.4055456	21	2 6.1	20.8
197711 2004 PB_{3}	16.7	X	181.09347	252.48970	98.49623	3.90572	0.2116314	0.26629959	2.3927044	21	2 16.5	20.5
197712 2004 PS_{3}	16.4	X	283.92541	273.45676	332.82140	6.12000	0.0892660	0.26952772	2.3735612	21	1 17.7	19.6
197713 2004 PZ_{3}	17.3	X	262.79452	308.79828	324.50346	2.08791	0.2276473	0.27171322	2.3608163	21	1 18.1	21.0
197714 2004 PR_{4}	16.6	X	129.28466	175.83760	208.32770	4.62405	0.1862490	0.26051585	2.4279885	21	2 2.2	19.9
197715 2004 PS_{7}	16.4	X	230.01133	347.95207	298.58526	2.16071	0.1856957	0.26613557	2.3936874	21	1 8.9	20.2
197716 2004 PV_{7}	16.9	X	204.86439	144.62931	170.81099	4.89108	0.2434320	0.26561851	2.3967928	21	1 23.2	21.1
197717 2004 PE_{8}	16.6	X	329.92839	170.85073	145.00696	7.18420	0.1423305	0.28551179	2.2841258	21	6 23.8	18.8
197718 2004 PM_{8}	16.8	X	253.69251	36.25629	310.98260	2.07765	0.1901115	0.27663467	2.3327327	21	4 12.6	20.4
197719 2004 PR_{8}	16.6	X	182.87823	350.87548	330.78229	5.72676	0.1897861	0.26205354	2.4184811	21	1 12.5	20.4
197720 2004 PD_{13}	16.9	X	172.54461	153.35730	185.93766	2.04253	0.1807496	0.26302825	2.4125026	21	1 22.3	20.6
197721 2004 PB_{14}	17.2	X	248.40078	316.45314	20.30022	2.92073	0.2079401	0.27472071	2.3435548	21	3 25.6	21.0
197722 2004 PG_{14}	17.0	X	163.88660	313.79626	38.48519	2.69592	0.2266428	0.26241233	2.4162761	21	2 4.6	20.9
197723 2004 PE_{15}	16.3	X	236.61487	275.60742	12.91161	6.14056	0.1148355	0.26584288	2.3954441	21	1 20.0	19.9
197724 2004 PF_{16}	17.0	X	171.40602	278.80194	26.49843	3.98745	0.2232092	0.25822479	2.4423286	21	—	—
197725 2004 PC_{17}	16.6	X	317.27935	331.50593	302.20428	3.30773	0.1167793	0.27768700	2.3268355	21	3 30.5	19.3
197726 2004 PR_{17}	17.2	X	317.47137	179.51755	91.75737	2.87855	0.1941950	0.27929188	2.3179132	21	3 17.8	19.8
197727 2004 PS_{17}	17.2	X	172.32040	23.23446	346.32880	4.85052	0.2590422	0.26587647	2.3952423	21	3 5.4	21.3
197728 2004 PH_{19}	16.8	X	200.43791	329.82889	31.66269	1.72256	0.1979910	0.26916711	2.3756806	21	3 16.2	20.8
197729 2004 PJ_{19}	16.6	X	217.53391	164.73593	110.63334	2.45926	0.1747169	0.26189383	2.4194642	21	—	—
197730 2004 PP_{19}	17.2	X	214.37859	298.69010	18.66653	3.06902	0.1843036	0.26650576	2.3914703	21	2 2.8	21.1
197731 2004 PR_{19}	16.5	X	207.87053	329.50971	338.35920	9.76215	0.2432818	0.26464812	2.4026482	21	1 19.6	20.7
197732 2004 PM_{21}	16.7	X	203.57254	190.99745	153.02017	3.89680	0.2069589	0.26721840	2.3872165	21	2 25.3	20.4
197733 2004 PJ_{22}	17.4	X	153.01899	63.51970	265.79147	0.50832	0.1900748	0.25943317	2.4347388	21	—	—
197734 2004 PR_{23}	16.9	X	158.70724	282.85253	25.26959	1.39891	0.1833235	0.25788658	2.4444635	21	—	—
197735 2004 PN_{24}	16.2	X	168.16569	194.90032	113.27465	2.27476	0.1814943	0.25919991	2.4361993	21	—	—
197736 2004 PO_{24}	17.3	X	170.38698	345.09417	3.41398	2.06341	0.2218028	0.26370331	2.4083836	21	2 4.7	21.2
197737 2004 PQ_{24}	16.9	X	340.63811	291.55465	339.68531	4.97290	0.1022802	0.28193611	2.3033976	21	5 6.6	19.2
197738 2004 PR_{24}	16.2	X	191.68933	359.35896	337.17964	7.00110	0.1075459	0.26632008	2.3925817	21	2 2.9	19.7
197739 2004 PU_{24}	16.9	X	239.07061	286.24041	356.56716	2.00934	0.2039028	0.26790263	2.3831501	21	1 11.8	20.8
197740 2004 PC_{25}	16.9	X	214.76052	291.95179	68.66125	0.63567	0.2268116	0.27229398	2.3574583	21	3 26.4	21.0
197741 2004 PU_{25}	16.8	X	134.15821	268.15716	85.31148	1.79290	0.2348128	0.25809417	2.4431525	21	1 8.4	20.0
197742 2004 PD_{27}	16.5	X	253.97343	196.66491	102.68971	6.50659	0.1344334	0.27257147	2.3558581	21	2 18.3	20.0
197743 2004 PN_{27}	16.4	X	199.53349	351.10872	348.02261	10.46856	0.2652703	0.26731739	2.3866272	21	2 19.3	20.6
197744 2004 PA_{28}	16.8	X	207.82309	104.33224	231.51005	6.13445	0.1311579	0.26862832	2.3788562	21	2 14.8	20.6
197745 2004 PP_{29}	17.3	X	257.68450	172.24091	123.89600	3.01760	0.1739446	0.27158037	2.3615862	21	2 13.9	21.0
197746 2004 PN_{30}	16.5	X	99.65951	211.11400	170.60717	6.20419	0.1229007	0.25883421	2.4384935	21	—	—
197747 2004 PW_{30}	17.4	X	268.20466	119.10616	151.71962	1.56230	0.1449184	0.27077420	2.3662712	21	1 25.1	21.0
197748 2004 PR_{31}	16.9	X	240.76769	288.47099	347.44406	0.79472	0.1727217	0.26653267	2.3913093	21	1 5.5	20.8
197749 2004 PW_{31}	16.3	X	187.26347	193.15267	138.02138	6.81793	0.1647246	0.26422756	2.4051969	21	1 24.9	20.1
197750 2004 PY_{31}	16.6	X	160.77218	343.80905	8.88591	1.14849	0.2180678	0.26204521	2.4185323	21	1 31.9	20.3
197751 2004 PK_{32}	16.6	X	220.07752	184.12967	132.95471	8.26789	0.1776600	0.26773516	2.3841438	21	2 6.3	20.3
197752 2004 PE_{33}	17.1	X	191.62202	38.44176	338.42975	0.93500	0.2027701	0.27015692	2.3698743	21	3 26.9	21.1
197753 2004 PM_{33}	16.7	X	205.59765	359.94122	22.02751	5.13329	0.1334091	0.27432090	2.3458314	21	4 14.4	20.3
197754 2004 PX_{33}	17.4	X	149.62457	127.46256	187.18023	1.15474	0.1836377	0.25630543	2.4545065	21	—	—
197755 2004 PY_{33}	17.1	X	302.78350	105.77231	154.49936	5.29810	0.2109305	0.27499830	2.3419774	21	2 8.7	20.3
197756 2004 PJ_{34}	16.9	X	137.27387	350.46463	335.52561	2.39206	0.2104886	0.25548299	2.4597713	21	—	—
197757 2004 PL_{34}	16.7	X	277.04696	317.74819	336.39618	1.15698	0.1576663	0.27446314	2.3450208	21	3 3.2	20.0
197758 2004 PO_{34}	16.7	X	162.75808	238.96091	140.14219	4.20812	0.1203508	0.26672953	2.3901325	21	2 26.6	19.9
197759 2004 PU_{34}	17.2	X	181.08326	200.43457	135.93889	6.38020	0.2354308	0.26338094	2.4103484	21	1 30.3	21.1
197760 2004 PV_{34}	16.8	X	145.58894	183.34598	158.49295	1.71005	0.1917868	0.25828319	2.4419604	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197761 2004 PC_{35}	17.0	X	214.88198	199.34956	124.39499	2.99230	0.1942814	0.26705889	2.3881670	21	2 10.2	20.9
197762 2004 PG_{35}	16.7	X	170.77830	15.00364	313.97047	4.03734	0.0913943	0.26057968	2.4275919	21	—	—
197763 2004 PK_{35}	16.9	X	188.30683	353.77480	305.15941	1.29294	0.1674471	0.25997236	2.4313712	21	—	—
197764 2004 PP_{35}	16.8	X	224.87458	348.61533	350.43234	4.23136	0.1529973	0.27067693	2.3668381	21	3 9.5	20.3
197765 2004 PB_{38}	16.8	X	191.63265	330.91019	346.77765	4.55523	0.1923504	0.26252671	2.4155742	21	1 15.5	20.8
197766 2004 PE_{38}	16.5	X	138.42014	356.64618	17.84027	2.07006	0.1708469	0.26024119	2.4296965	21	1 31.8	19.8
197767 2004 PD_{39}	17.1	X	10.62299	348.63519	300.84320	1.84993	0.2090161	0.28851878	2.2682277	21	8 17.7	18.3
197768 2004 PT_{39}	16.8	X	254.98507	306.06318	327.60524	7.30626	0.2042390	0.26788410	2.3832600	21	1 14.7	20.8
197769 2004 PX_{39}	16.6	X	345.38573	324.36297	328.96703	5.76490	0.1084740	0.28384466	2.2930608	21	6 22.3	18.8
197770 2004 PG_{40}	16.2	X	260.91236	325.86357	341.95691	10.18507	0.1329226	0.27161978	2.3613578	21	3 6.1	19.7
197771 2004 PE_{42}	17.0	X	220.49002	115.85025	213.97413	2.08488	0.2185909	0.26999453	2.3708245	21	2 20.6	21.0
197772 2004 PG_{45}	17.0	X	258.80707	228.82286	122.78918	7.61839	0.1284024	0.27771606	2.3266732	21	5 4.3	20.3
197773 2004 PJ_{45}	16.6	X	215.22203	213.59121	56.67156	3.04874	0.1777551	0.26064691	2.4271745	21	—	—
197774 2004 PN_{45}	16.6	X	206.76916	351.57285	306.93120	2.85672	0.1571059	0.26243393	2.4161435	21	1 3.4	20.4
197775 2004 PR_{45}	16.7	X	163.62186	47.73576	314.58862	5.35637	0.1486860	0.26259957	2.4151274	21	2 8.6	20.1
197776 2004 PS_{45}	17.0	X	145.35656	136.59821	214.15198	3.47113	0.1626338	0.25836938	2.4414173	21	1 7.4	20.3
197777 2004 PW_{45}	16.9	X	243.58383	39.77731	340.73927	6.74258	0.1076923	0.28248893	2.3003915	21	5 22.8	20.2
197778 2004 PJ_{46}	16.8	X	16.54369	352.27530	297.78485	5.78539	0.1423798	0.29105594	2.2550269	21	8 22.3	18.8
197779 2004 PO_{46}	17.4	X	194.95547	131.09806	237.93609	2.58564	0.2379539	0.26913878	2.3758473	21	3 20.0	21.4
197780 2004 PW_{46}	16.8	X	153.36698	172.63262	195.37606	1.81608	0.2420886	0.26211041	2.4181312	21	2 14.1	20.7
197781 2004 PZ_{47}	16.8	X	170.55023	133.94898	220.87310	2.63302	0.1871538	0.26523637	2.3990944	21	2 8.2	20.5
197782 2004 PA_{48}	17.1	X	172.13747	175.41786	197.35713	2.61212	0.1996326	0.26765127	2.3846419	21	3 4.7	20.9
197783 2004 PR_{48}	16.5	X	144.79239	43.09100	335.29038	5.87152	0.1303860	0.26446861	2.4037352	21	2 7.3	19.6
197784 2004 PA_{50}	16.6	X	312.72580	330.18184	351.08789	5.40784	0.1439019	0.28376150	2.2935087	21	5 28.6	19.0
197785 2004 PK_{50}	16.6	X	140.50525	227.49399	91.58708	4.43147	0.2007696	0.25552820	2.4594811	21	—	—
197786 2004 PU_{50}	16.9	X	177.68509	228.75375	101.52278	4.44314	0.1015221	0.26363594	2.4087939	21	1 9.9	20.2
197787 2004 PN_{51}	16.8	X	173.06804	249.00383	84.30322	3.62905	0.2241154	0.26197842	2.4189434	21	1 19.9	20.6
197788 2004 PR_{51}	16.5	X	170.60499	330.55565	7.31915	5.22875	0.2012440	0.26202126	2.4186797	21	1 22.5	20.3
197789 2004 PN_{52}	17.0	X	226.50545	322.74128	8.58589	3.63312	0.1953246	0.27019312	2.3696627	21	3 1.4	20.8
197790 2004 PP_{54}	16.5	X	209.93811	355.31685	310.30967	6.43447	0.1485205	0.26486365	2.4013445	21	1 14.7	20.3
197791 2004 PP_{55}	16.4	X	185.41824	226.70044	125.00125	7.07620	0.1308370	0.26577507	2.3958514	21	2 16.8	19.9
197792 2004 PQ_{57}	16.2	X	166.01239	119.58425	311.78025	11.37813	0.1970816	0.27464776	2.3439698	21	5 8.2	20.2
197793 2004 PB_{58}	16.8	X	173.33639	139.00723	166.06454	6.69605	0.1949676	0.25938121	2.4350640	21	—	—
197794 2004 PK_{58}	16.4	X	222.34971	10.36488	310.43653	6.00452	0.1339670	0.26899220	2.3767103	21	2 12.1	20.1
197795 2004 PG_{60}	16.4	X	104.43536	229.64409	177.03735	7.22165	0.1117688	0.25987226	2.4319955	21	1 18.7	19.3
197796 2004 PJ_{60}	16.7	X	109.16015	350.00943	48.88505	3.31877	0.2014007	0.25825208	2.4421565	21	2 1.3	19.6
197797 2004 PA_{61}	17.0	X	200.06728	54.60574	276.39188	3.24668	0.1620107	0.26564789	2.3966161	21	2 4.6	20.9
197798 2004 PX_{61}	16.1	X	212.25592	306.37656	35.97510	8.69024	0.1386204	0.26610433	2.3938747	21	3 6.4	19.9
197799 2004 PD_{63}	16.8	X	174.11991	176.58119	153.12379	7.20664	0.1607753	0.26169482	2.4206907	21	1 10.5	20.5
197800 2004 PU_{64}	16.8	X	179.95864	32.08697	284.25901	6.26260	0.1142147	0.26012394	2.4304265	21	—	—
197801 2004 PR_{65}	17.1	X	331.68147	280.67930	9.26933	8.28437	0.2337310	0.28502030	2.2867509	21	4 26.5	19.0
197802 2004 PG_{66}	16.9	X	143.22933	356.96296	7.20466	1.13819	0.1946938	0.25986390	2.4320477	21	1 26.6	20.2
197803 2004 PH_{67}	16.8	X	60.80001	13.08430	258.63459	4.80039	0.0901616	0.29378751	2.2410274	21	9 29.7	19.5
197804 2004 PB_{68}	16.6	X	324.56333	121.17111	182.94944	7.00511	0.1412335	0.28346980	2.2950819	21	5 26.5	18.9
197805 2004 PY_{68}	17.0	X	145.38937	168.74238	172.46905	2.51359	0.1896154	0.25981574	2.4323482	21	—	—
197806 2004 PZ_{68}	16.9	X	157.29648	285.72021	111.11576	3.02473	0.0060847	0.27072210	2.3665749	21	3 2.6	19.8
197807 2004 PH_{69}	16.8	X	203.79422	66.99998	346.11190	6.32920	0.1492346	0.27768473	2.3268482	21	5 21.4	20.5
197808 2004 PN_{70}	17.2	X	208.04016	207.48451	136.03823	1.89639	0.1931447	0.26806465	2.3821897	21	2 28.4	21.0
197809 2004 PU_{71}	17.2	X	206.54802	313.93997	39.73597	1.78289	0.2051462	0.27047193	2.3680339	21	3 11.8	21.1
197810 2004 PX_{72}	17.2	X	195.02564	249.80591	122.44328	2.05446	0.2014747	0.27047299	2.3680277	21	3 25.2	21.1
197811 2004 PN_{73}	17.0	X	262.70258	182.41260	136.58960	5.75818	0.2493963	0.27554629	2.3388714	21	3 14.1	20.8
197812 2004 PR_{73}	17.2	X	193.20784	17.31601	12.52096	3.01192	0.2390223	0.27181698	2.3602155	21	4 13.8	21.3
197813 2004 PK_{74}	16.8	X	183.90520	299.81659	26.99243	2.48880	0.2062689	0.26279539	2.4139275	21	1 20.3	20.6
197814 2004 PQ_{74}	16.9	X	224.48345	274.57864	97.97488	3.25275	0.2035166	0.27563243	2.3383841	21	4 19.9	20.6
197815 2004 PJ_{75}	16.8	X	160.55971	65.44661	340.02959	11.04703	0.1171423	0.26936182	2.3745356	21	3 25.7	20.4
197816 2004 PO_{76}	17.0	X	321.35212	288.78956	335.01739	3.97649	0.1355032	0.27923029	2.3182541	21	3 19.9	19.5
197817 2004 PW_{77}	16.9	X	208.93646	66.30647	256.98920	4.78357	0.1432890	0.26725171	2.3870182	21	2 1.9	20.7
197818 2004 PX_{77}	16.9	X	183.28875	176.41832	200.17791	4.55238	0.1597492	0.26942170	2.3741838	21	3 17.1	20.4
197819 2004 PZ_{78}	17.2	X	120.61936	204.04401	141.82975	7.65751	0.1906555	0.25441111	2.4666754	21	—	—
197820 2004 PE_{79}	16.6	X	155.11637	149.82206	224.95064	3.94476	0.1802437	0.26367944	2.4085289	21	2 16.9	20.2
197821 2004 PZ_{79}	16.9	X	145.26290	343.09003	27.63434	2.85552	0.2026674	0.26073003	2.4266586	21	2 7.6	20.3
197822 2004 PN_{80}	15.5	X	194.18802	213.08012	317.58900	14.20472	0.1514618	0.23835460	2.5762442	21	10 5.2	19.8
197823 2004 PD_{81}	16.9	X	55.47516	345.36411	16.87106	1.35059	0.2146439	0.24597225	2.5227757	21	—	—
197824 2004 PU_{81}	16.5	X	131.21043	337.63473	349.29638	6.13953	0.1291831	0.25416134	2.4682911	21	—	—
197825 2004 PL_{82}	17.4	X	161.92157	280.58211	95.62550	2.48964	0.2030274	0.26474011	2.4020915	21	3 2.1	21.1
197826 2004 PL_{84}	15.6	X	278.10381	216.44124	165.55030	14.68923	0.1998925	0.22308867	2.6924710	21	6 27.3	19.6
197827 2004 PT_{88}	17.4	X	206.40477	35.34786	349.05790	3.59339	0.1289757	0.27518979	2.3408909	21	4 17.2	20.8
197828 2004 PE_{91}	17.4	X	245.76401	110.19315	208.63474	1.78236	0.2188781	0.27154541	2.3617888	21	2 27.7	21.2
197829 2004 PT_{91}	16.7	X	245.30384	79.62690	202.05964	4.89969	0.1280305	0.26688156	2.3892248	21	1 16.7	20.3
197830 2004 PC_{92}	16.9	X	133.29983	44.49388	300.36504	5.64769	0.1290668	0.25577077	2.4579258	21	—	—
197831 2004 PV_{94}	17.2	X	176.25705	233.81077	157.52365	2.72803	0.1821134	0.26841145	2.3801374	21	3 31.9	20.9
197832 2004 PW_{94}	17.6	X	203.48327	101.04605	223.97225	2.24447	0.2336523	0.26614348	2.3936400	21	2 2.3	21.7
197833 2004 PN_{95}	16.9	X	273.59663	84.04033	230.49806	4.59768	0.1248173	0.27538655	2.3397758	21	3 28.2	20.0
197834 2004 PR_{95}	16.1	X	251.77697	286.31284	355.73720	12.64674	0.2317061	0.27021230	2.3695505	21	1 23.3	20.3
197835 2004 PZ_{95}	17.2	X	168.32335	236.45024	148.08466	2.70562	0.2073101	0.26682161	2.3895826	21	3 17.8	20.8
197836 2004 PL_{96}	16.8	X	321.50629	17.44811	231.59355	1.74592	0.1694685	0.27463104	2.3440649	21	2 22.8	19.7
197837 2004 PW_{98}	16.7	X	202.55298	281.71676	69.70560	7.07663	0.1675308	0.26836248	2.3804269	21	3 8.4	20.6
197838 2004 PF_{99}	16.0	X	308.88782	343.38693	22.58773	8.71401	0.2426255	0.22657081	2.6648131	21	7 16.5	19.0
197839 2004 PN_{99}	14.9	X	340.07282	33.01436	290.26019	17.07854	0.2941332	0.22772676	2.6557876	21	7 11.2	16.6
197840 2004 PY_{100}	16.5	X	182.81068	113.48991	209.76682	1.66985	0.2237385	0.26167390	2.4208197	21	1 15.3	20.5

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
197841	2004 PL_{104}	17.0	X	2.58214	28.36347	225.55527	5.25419	0.0726899	0.28150385	2.3057550	21	5 25.1	19.4
197842	2004 PH_{107}	16.3	X	132.60365	340.97841	53.92175	8.06494	0.0867907	0.26275988	2.4141449	21	2 10.9	19.5
197843	2004 PK_{109}	15.8	X	16.52864	153.96876	351.30969	11.27460	0.1494427	0.26303692	2.4124496	21	1 6.2	18.4
197844	2004 PJ_{110}	17.2	X	244.59316	285.60172	1.77210	3.47547	0.2263378	0.26815591	2.3816492	21	1 21.6	21.2
197845	Michaelvincent	17.2	X	70.40082	31.24013	2.20834	6.41792	0.1819871	0.25140610	2.4862923	21	—	—
197846	2004 PU_{112}	16.5	X	145.17560	11.11579	3.53431	7.48543	0.1248568	0.26328551	2.4109308	21	2 4.2	19.9
197847	2004 QJ_{2}	16.5	X	188.00977	333.50196	36.49639	5.81345	0.1411849	0.27019306	2.3696630	21	3 15.7	20.1
197848	2004 QQ_{2}	16.9	X	226.98231	259.77135	135.73922	7.04411	0.0963904	0.28025454	2.3126023	21	5 28.7	20.2
197849	2004 QG_{3}	16.5	X	153.51736	258.17138	54.55296	5.76590	0.1587021	0.25661600	2.4525257	21	—	—
197850	2004 QL_{3}	15.8	X	130.93348	49.87263	345.94492	28.56540	0.2256238	0.26190420	2.4194004	21	2 28.9	19.2
197851	2004 QB_{5}	16.2	X	213.73417	314.87955	7.32070	7.00625	0.1373590	0.26785292	2.3834449	21	2 8.9	19.9
197852	2004 QZ_{6}	17.1	X	220.08034	219.31707	80.77384	6.18870	0.1719752	0.26591278	2.3950242	21	1 17.4	20.9
197853	2004 QA_{7}	17.0	X	211.40405	242.73704	64.70997	5.64377	0.2227838	0.26583855	2.3954700	21	1 20.2	21.0
197854	2004 QZ_{10}	16.6	X	208.37574	234.95350	83.57510	7.56001	0.1945817	0.26565862	2.3965515	21	1 30.9	20.6
197855	2004 QK_{11}	16.4	X	110.97580	274.40892	59.53353	5.35138	0.1882155	0.25192907	2.4828502	21	—	—
197856	Tafelmusik	16.6	X	193.07823	210.22843	34.64758	4.16817	0.1668247	0.25442522	2.4665842	21	—	—
197857	2004 QX_{18}	16.9	X	212.22171	323.98001	27.56122	2.92784	0.1985042	0.26946178	2.3739484	21	3 14.2	20.8
197858	2004 QT_{19}	16.2	X	71.79025	251.09561	190.95083	6.48244	0.0655222	0.26054066	2.4278343	21	1 11.3	19.1
197859	2004 QH_{22}	14.8	X	263.51566	129.48751	281.64987	23.81446	0.2483190	0.28256273	2.2999910	21	7 10.9	18.0
197860	2004 QO_{25}	15.2	X	18.25176	112.02182	292.79782	21.53405	0.0659511	0.24204464	2.5499935	21	—	—
197861	2004 QS_{25}	16.6	X	129.23555	313.57078	36.21772	10.50586	0.2566590	0.25498597	2.4629666	21	1 2.3	20.1
197862	2004 RB_{1}	17.1	X	180.93641	333.75723	8.46230	2.81195	0.2188724	0.26278841	2.4139702	21	2 6.3	20.9
197863	2004 RF_{1}	16.1	X	146.20601	352.48582	35.67117	9.70486	0.1984901	0.26410503	2.4059408	21	3 5.1	19.8
197864	Florentpagny	16.4	X	267.10587	52.90866	234.24695	5.27496	0.2349099	0.27087573	2.3656800	21	2 4.8	20.5
197865	2004 RU_{4}	16.6	X	221.52485	276.23554	32.44942	8.36438	0.1320718	0.26519119	2.3993669	21	1 31.6	20.4
197866	2004 RM_{5}	16.7	X	181.94708	347.13148	38.96293	7.60167	0.1208373	0.26833748	2.3805748	21	3 29.6	20.2
197867	2004 RS_{5}	16.9	X	180.61043	275.48719	106.01501	7.17010	0.1366708	0.26755155	2.3852344	21	3 24.4	20.6
197868	2004 RQ_{6}	16.2	X	220.74306	241.22366	121.28929	8.75628	0.1355124	0.27236926	2.3570239	21	4 8.8	19.9
197869	2004 RZ_{7}	16.2	X	74.24263	113.11636	167.49662	17.24287	0.2018338	0.23660886	2.5889006	21	11 11.6	20.3
197870	Erkman	15.9	X	305.47612	51.51320	335.88454	12.92406	0.1820344	0.22830387	2.6513101	21	8 20.6	18.8
197871	2004 RD_{8}	17.0	X	97.93714	298.30045	10.91561	2.75432	0.1073230	0.24692132	2.5163072	21	12 29.9	20.8
197872	2004 RK_{8}	16.6	X	194.63616	62.32741	262.21925	3.72407	0.1411468	0.26258272	2.4152307	21	1 22.3	20.3
197873	2004 RB_{9}	16.9	X	178.50412	167.01037	168.34446	4.24870	0.2138592	0.26115282	2.4240388	21	1 25.3	20.9
197874	2004 RG_{11}	16.5	X	326.12586	43.79499	315.66032	3.27718	0.0804941	0.23145855	2.6271643	21	8 27.0	19.4
197875	2004 RN_{13}	17.5	X	157.45979	212.43956	169.51551	2.44516	0.1801223	0.26373264	2.4082050	21	3 1.9	21.1
197876	2004 RT_{13}	17.5	X	178.67475	319.16535	23.37409	1.74171	0.1901973	0.26206959	2.4183823	21	2 2.8	21.3
197877	2004 RF_{14}	17.6	X	173.76542	40.66634	325.08543	1.15965	0.1583920	0.26550032	2.3975040	21	2 23.6	21.3
197878	2004 RJ_{14}	15.9	X	177.66646	212.25132	330.68191	8.50551	0.1001265	0.23875040	2.5733961	21	10 10.6	19.9
197879	2004 RD_{15}	16.9	X	197.31366	237.88398	169.66484	4.74664	0.1629233	0.27453126	2.3446329	21	5 10.9	20.6
197880	2004 RU_{15}	17.3	X	168.96361	248.04846	102.01112	2.65870	0.2026061	0.26250178	2.4157272	21	2 3.9	21.1
197881	2004 RY_{15}	17.4	X	172.57935	311.23313	43.38440	3.37423	0.2037830	0.26360669	2.4089721	21	2 13.7	21.3
197882	2004 RL_{16}	16.9	X	159.87444	306.05691	72.80478	3.46835	0.1952114	0.26420807	2.4053152	21	3 3.5	20.6
197883	2004 RO_{16}	17.1	X	231.00170	251.20654	95.52318	3.06502	0.1724498	0.27200905	2.3591043	21	3 25.7	20.9
197884	2004 RL_{21}	16.8	X	79.79154	240.32800	174.00948	4.53773	0.1681064	0.25561242	2.4589409	21	—	—
197885	2004 RX_{21}	17.1	X	138.96061	27.64153	352.24714	0.73539	0.1955537	0.26071390	2.4267587	21	2 10.7	20.5
197886	2004 RB_{22}	17.4	X	144.20559	335.75240	331.82310	0.49262	0.1749530	0.25344963	2.4729098	21	—	—
197887	2004 RQ_{22}	16.8	X	13.55760	190.73606	155.37025	5.81618	0.1003265	0.23674118	2.5879359	21	10 31.1	19.9
197888	2004 RR_{22}	17.0	X	210.64796	194.65473	54.11324	1.17674	0.1859588	0.25637119	2.4540867	21	—	—
197889	2004 RV_{22}	17.0	X	244.96966	351.59536	352.80144	4.54600	0.1498514	0.27416226	2.3467362	21	4 3.6	20.6
197890	2004 RB_{23}	17.0	X	190.85071	283.64562	13.30076	2.18107	0.1627934	0.25952484	2.4341654	21	—	—
197891	2004 RR_{23}	16.8	X	146.96904	10.41457	42.13279	3.26167	0.1851453	0.26487805	2.4012575	21	3 31.7	20.3
197892	2004 RD_{25}	16.6	X	163.18060	348.55681	3.69579	8.16654	0.2443517	0.26114163	2.4241081	21	2 7.2	20.5
197893	2004 RZ_{29}	16.8	X	140.93164	217.72491	138.78429	3.29299	0.1915537	0.25984402	2.4321717	21	1 13.5	20.2
197894	2004 RJ_{30}	17.2	X	173.31063	5.93109	21.29149	3.42076	0.1403905	0.26862844	2.3788555	21	3 21.5	20.7
197895	2004 RS_{30}	17.4	X	269.84982	21.65381	286.31455	2.62611	0.1391584	0.27489386	2.3425706	21	3 13.9	20.8
197896	2004 RO_{31}	16.8	X	138.35449	283.35424	143.54363	5.85952	0.1099784	0.26893769	2.3770315	21	4 2.5	20.0
197897	2004 RR_{31}	16.3	X	88.90391	50.85354	0.83287	7.44645	0.1315704	0.25823611	2.4422572	21	1 7.5	19.0
197898	2004 RS_{32}	16.4	X	263.94857	237.85060	25.55735	6.00650	0.1331682	0.26672660	2.3901501	21	1 14.6	20.1
197899	2004 RV_{32}	17.0	X	117.64955	354.22293	36.68557	2.75078	0.2233392	0.25844555	2.4409376	21	2 5.3	20.0
197900	2004 RH_{36}	17.2	X	22.31117	232.50866	43.77218	4.20497	0.2129010	0.28834063	2.2691619	21	8 27.5	18.8
197901	2004 RK_{38}	16.4	X	4.18569	13.66109	59.06288	3.80629	0.1446696	0.24610287	2.5218830	21	—	—
197902	2004 RL_{38}	16.5	X	172.82917	319.40882	36.41558	4.74398	0.0737303	0.26339377	2.4102701	21	2 5.4	19.8
197903	2004 RL_{39}	17.2	X	68.40925	337.15516	18.04871	2.41205	0.1360274	0.24694158	2.5161696	21	—	—
197904	2004 RM_{39}	16.1	X	102.17823	189.57716	120.50769	1.77272	0.1181847	0.18799176	3.0179371	21	12 25.4	20.7
197905	2004 RY_{41}	16.4	X	13.30519	150.78718	193.19353	32.71981	0.2148295	0.23370757	2.6102826	21	11 11.4	19.5
197906	2004 RB_{42}	16.3	X	298.93477	118.14754	193.85083	10.59894	0.1822780	0.21726652	2.7403593	21	4 26.1	19.9
197907	2004 RD_{42}	16.2	X	318.24882	198.81758	189.36042	17.57926	0.2568276	0.22913077	2.6449275	21	8 31.9	18.8
197908	2004 RC_{43}	17.2	X	185.35117	176.34987	165.60849	2.42309	0.1975952	0.26446179	2.4037766	21	2 7.1	20.9
197909	2004 RH_{43}	17.3	X	181.05611	70.87166	325.45966	1.80761	0.1954685	0.27003244	2.3706026	21	4 10.4	21.1
197910	2004 RG_{45}	16.4	X	107.41927	265.67001	178.54133	6.82490	0.0858336	0.26633646	2.3924836	21	3 10.7	19.2
197911	2004 RK_{46}	17.2	X	197.32407	186.70711	137.50382	1.98727	0.1938262	0.26391383	2.4071027	21	1 27.1	20.9
197912	2004 RQ_{46}	17.3	X	89.58548	309.54705	351.23076	7.37208	0.2318982	0.24426942	2.5344865	21	12 20.1	21.6
197913	2004 RT_{47}	17.2	X	194.10261	346.99142	356.50965	2.42914	0.2112495	0.26544040	2.3978649	21	2 17.7	21.0
197914	2004 RP_{48}	17.3	X	253.33565	159.14735	127.18300	3.13761	0.2224449	0.26894656	2.3769792	21	1 26.4	21.0
197915	2004 RK_{49}	17.0	X	109.71988	267.34778	142.12743	3.04409	0.1534391	0.25975971	2.4326980	21	2 7.0	19.7
197916	2004 RU_{49}	16.4	X	84.93362	30.63743	352.84724	14.56155	0.1177452	0.25253582	2.4788717	21	—	—
197917	2004 RB_{51}	17.2	X	203.40431	233.59895	64.64074	2.44904	0.2148648	0.26202696	2.4186446	21	1 2.3	21.2
197918	2004 RO_{51}	17.1	X	170.91471	18.30976	36.68712	2.62749	0.2153163	0.26964511	2.3728722	21	4 26.8	20.8
197919	2004 RZ_{51}	16.4	X	147.30585	169.62428	149.49607	5.93593	0.0481143	0.25358772	2.4720120	21	—	—
197920	2004 RL_{52}	16.6	X	60.26561	313.68670	357.12027	6.82771	0.1643349	0.23964583	2.5669818	21	11 24.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
197921 2004 RQ_{53}	16.3	X	294.21865	251.46200	15.91707	8.84703	0.2021083	0.27230221	2.3574108	21	2 14.2	19.8
197922 2004 RA_{54}	17.1	X	145.16842	255.56207	76.72220	3.28393	0.1921566	0.25587583	2.4572530	21	—	—
197923 2004 RO_{54}	17.1	X	315.88577	285.81039	10.35431	5.64177	0.2609479	0.28045083	2.3115230	21	4 6.4	19.5
197924 2004 RQ_{54}	16.6	X	138.18763	21.31474	8.70013	5.73390	0.1901445	0.26113828	2.4241288	21	2 23.7	20.1
197925 2004 RK_{56}	16.8	X	135.60943	253.79701	108.69774	4.43661	0.2389891	0.25736623	2.4477572	21	1 22.2	20.2
197926 2004 RZ_{57}	16.4	X	236.24598	310.47334	289.48921	4.74644	0.0881543	0.25691537	2.4506201	21	—	—
197927 2004 RW_{59}	16.6	X	124.48236	344.55030	340.25389	5.29945	0.1448732	0.25175171	2.4840162	21	—	—
197928 2004 RE_{60}	16.9	X	114.87942	221.44983	180.78395	4.34996	0.1456241	0.25965319	2.4333632	21	2 2.2	19.9
197929 2004 RN_{60}	17.6	X	253.34686	85.93898	234.06523	1.40227	0.2394247	0.27277895	2.3546633	21	3 6.2	21.6
197930 2004 RJ_{61}	16.4	X	104.66386	202.41556	189.14102	5.36029	0.0312151	0.25763437	2.4460585	21	—	—
197931 2004 RQ_{62}	16.6	X	25.30021	146.81626	179.73497	12.13036	0.2301151	0.23609325	2.5926686	21	11 12.1	19.7
197932 2004 RV_{64}	17.1	X	122.25297	216.63369	173.08312	2.89416	0.2153868	0.25806653	2.4433270	21	2 6.5	20.2
197933 2004 RV_{66}	17.0	X	280.71903	272.00862	31.33653	3.18670	0.2191938	0.27472425	2.3435347	21	3 13.4	20.5
197934 2004 RC_{67}	17.1	X	185.58107	187.70221	150.95668	1.82394	0.2027412	0.26279608	2.4139233	21	2 4.0	21.1
197935 2004 RW_{67}	16.8	X	145.39134	22.76345	3.84551	5.04886	0.2227053	0.26120827	2.4236957	21	3 1.6	20.4
197936 2004 RK_{68}	16.5	X	202.47953	286.43151	32.91944	4.22188	0.1833639	0.26315371	2.4117358	21	1 26.8	20.4
197937 2004 RG_{69}	16.8	X	280.91936	248.64561	42.62437	3.36726	0.2193756	0.27286713	2.3541560	21	2 26.9	20.2
197938 2004 RF_{70}	16.5	X	119.39551	250.01165	158.93189	6.90837	0.1042233	0.26170629	2.4206200	21	2 10.8	19.5
197939 2004 RR_{70}	17.0	X	241.56367	188.99668	94.95293	3.33936	0.2181334	0.26609224	2.3939472	21	1 14.9	21.1
197940 2004 RT_{70}	16.9	X	300.10714	233.07364	38.73256	2.73373	0.1876578	0.27352084	2.3504035	21	2 25.7	19.9
197941 2004 RH_{71}	16.7	X	93.01207	41.36332	30.84649	4.47259	0.1754095	0.25908232	2.4369364	21	2 19.2	19.3
197942 2004 RD_{72}	15.7	X	49.76406	289.67605	174.28353	15.04609	0.0455523	0.26004334	2.4309287	21	1 6.8	18.9
197943 2004 RO_{72}	16.1	X	356.27450	1.04703	351.09559	22.06430	0.0651006	0.23331515	2.6132086	21	9 29.6	19.4
197944 2004 RA_{74}	16.8	X	227.59517	102.33733	175.76807	4.12752	0.1832096	0.26254458	2.4154646	21	—	—
197945 2004 RE_{74}	16.2	X	137.72674	276.83881	182.86833	7.27931	0.1391934	0.27156578	2.3616707	21	5 18.5	19.6
197946 2004 RY_{75}	16.5	X	98.43811	335.43819	73.70628	3.14696	0.1781594	0.25619490	2.4552124	21	1 26.6	19.1
197947 2004 RZ_{80}	16.6	X	351.52526	20.75634	358.99814	2.29047	0.1272810	0.23665011	2.5885998	21	11 9.8	19.4
197948 2004 RX_{81}	16.7	X	56.41367	295.66065	246.87680	1.35841	0.1334296	0.27095221	2.3652347	21	5 19.2	18.9
197949 2004 RC_{82}	17.2	X	174.14592	20.28954	286.33075	0.56388	0.1765514	0.25936576	2.4351607	21	—	—
197950 2004 RC_{83}	16.8	X	277.35248	60.09756	198.24721	2.41051	0.1527377	0.26719977	2.3873275	21	1 18.2	20.2
197951 2004 RR_{83}	17.0	X	54.63713	319.30771	358.25202	2.97100	0.0955546	0.23599457	2.5933913	21	11 16.7	20.4
197952 2004 RA_{84}	15.9	X	134.69931	115.05626	248.57814	9.35144	0.2205007	0.25866254	2.4395723	21	1 17.5	19.4
197953 2004 RN_{85}	15.9	X	40.57079	5.79447	281.89397	13.28883	0.2338070	0.23346346	2.6121018	21	10 3.4	19.4
197954 2004 RF_{86}	17.5	X	247.97712	107.30690	200.76792	3.31129	0.1823760	0.27173756	2.3606754	21	2 17.7	21.2
197955 2004 RS_{87}	16.5	X	61.39063	97.74356	184.20626	13.36872	0.1989458	0.23593729	2.5938110	21	10 27.9	20.1
197956 2004 RZ_{89}	16.5	X	176.50060	80.94616	302.53130	5.79114	0.1242046	0.26898514	2.3767519	21	3 15.4	20.2
197957 2004 RV_{94}	16.6	X	211.88106	163.10898	214.16468	5.57640	0.1180456	0.27319462	2.3522742	21	4 14.7	20.2
197958 2004 RA_{95}	16.3	X	240.97501	307.95726	311.17575	6.76114	0.1142551	0.26175555	2.4203162	21	—	—
197959 2004 RD_{97}	16.7	X	155.25163	62.09564	284.42494	6.40808	0.0847577	0.25883837	2.4384674	21	1 4.0	20.0
197960 2004 RR_{97}	16.4	X	143.65325	148.55081	191.65083	6.26520	0.1355983	0.25729425	2.4482138	21	—	—
197961 2004 RB_{98}	17.2	X	166.95406	196.55692	219.92700	4.80534	0.1624105	0.27068251	2.3668056	21	4 22.0	20.8
197962 2004 RT_{99}	16.8	X	16.64194	329.78120	281.22828	4.69352	0.1516877	0.28264690	2.2995343	21	6 18.9	18.4
197963 2004 RP_{102}	16.3	X	81.19142	153.10769	329.95122	6.37739	0.0547478	0.26831456	2.3807103	21	3 19.8	19.0
197964 2004 RF_{103}	16.6	X	4.61554	348.40672	286.56898	6.97081	0.2961036	0.28619451	2.2804918	21	7 7.4	16.7
197965 2004 RR_{103}	16.3	X	208.14444	54.54813	215.65035	8.86863	0.1177384	0.25622602	2.4550136	21	—	—
197966 2004 RX_{105}	16.6	X	177.43870	126.32177	211.64449	9.58514	0.2680899	0.26124172	2.4234889	21	1 28.7	20.9
197967 2004 RV_{106}	16.5	X	130.43577	213.94352	303.77717	5.90863	0.1049146	0.28380578	2.2932702	21	7 24.3	19.7
197968 2004 RV_{108}	16.2	X	256.57623	244.90149	312.88026	5.57827	0.0904824	0.25313582	2.4749531	21	—	—
197969 2004 RW_{108}	17.1	X	192.44246	74.12289	252.86477	2.18884	0.1431693	0.26339477	2.4102640	21	1 23.4	20.8
197970 2004 RZ_{109}	16.3	X	304.57527	77.79259	350.59903	27.24757	0.3889397	0.22723171	2.6596435	21	9 11.2	18.7
197971 2004 RW_{110}	17.2	X	277.27864	85.85940	235.30340	1.21331	0.2216755	0.27633938	2.3343942	21	3 30.8	20.6
197972 2004 RZ_{112}	15.8	X	337.45558	193.92664	215.24438	30.06416	0.2422802	0.23468921	2.6029988	21	12 1.3	18.2
197973 2004 RB_{132}	17.3	X	172.86139	118.01754	21.18509	1.04982	0.1615367	0.28561977	2.2835500	21	8 16.0	20.6
197974 2004 RM_{135}	16.9	X	175.75348	255.32468	4.28103	6.98728	0.1314643	0.25133354	2.4867707	21	—	—
197975 2004 RY_{137}	16.3	X	220.68083	70.16126	195.69243	7.13839	0.1001036	0.26144886	2.4222086	21	—	—
197976 2004 RX_{139}	15.9	X	114.98631	15.37121	0.75819	7.58026	0.2192451	0.25578573	2.4578300	21	1 14.0	19.0
197977 2004 RF_{141}	16.5	X	245.34153	254.59338	52.38404	5.33843	0.2409230	0.26902072	2.3765424	21	2 15.4	20.5
197978 2004 RU_{141}	16.8	X	159.04597	320.88985	31.15311	2.69671	0.1870219	0.25958814	2.4337697	21	1 27.5	20.3
197979 2004 RV_{144}	16.9	X	197.68165	190.69696	136.30945	5.18376	0.1607886	0.26567768	2.3964369	21	1 29.2	20.5
197980 2004 RW_{144}	17.0	X	215.78702	285.65421	42.02426	3.57405	0.2545000	0.26857992	2.3791419	21	2 16.9	21.1
197981 2004 RG_{145}	17.1	X	212.70174	295.68770	21.21112	5.27597	0.2218227	0.26646517	2.3917131	21	2 2.1	21.2
197982 2004 RW_{146}	16.8	X	167.95358	262.99835	196.00363	4.47126	0.1907219	0.27585540	2.3371238	21	6 18.9	20.5
197983 2004 RP_{147}	17.2	X	108.58575	174.35154	212.20083	0.72933	0.1962064	0.25555543	2.4593064	21	1 13.2	20.0
197984 2004 RW_{149}	16.3	X	108.10927	308.37295	165.21551	7.80157	0.1574892	0.26868482	2.3785227	21	5 5.4	19.5
197985 2004 RC_{150}	16.5	X	162.43123	149.92611	125.54436	6.04260	0.1763049	0.25060602	2.4915812	21	—	—
197986 2004 RM_{151}	15.4	X	263.47309	215.14217	192.04393	12.63566	0.1479517	0.22138995	2.7062263	21	7 17.7	19.5
197987 2004 RT_{151}	16.0	X	336.15052	227.29228	172.55833	7.49705	0.1844091	0.23214587	2.6219762	21	11 13.7	18.4
197988 2004 RR_{155}	16.8	X	4.49543	23.73638	232.10731	5.42055	0.1683633	0.28153271	2.3055974	21	5 29.0	18.3
197989 2004 RC_{156}	17.0	X	119.46823	78.60811	297.86146	5.12867	0.0967693	0.25717360	2.4489794	21	—	—
197990 2004 RT_{156}	16.9	X	106.88142	56.02989	316.68297	4.16827	0.1631131	0.25405619	2.4689722	21	—	—
197991 2004 RS_{158}	16.2	X	11.37241	99.25102	187.59982	10.12028	0.0686740	0.22669104	2.6638707	21	7 26.9	19.6
197992 2004 RH_{159}	16.8	X	90.89245	169.27290	310.45566	3.39579	0.1247392	0.26885803	2.3775010	21	4 10.0	19.5
197993 2004 RQ_{163}	17.1	X	158.55680	188.45395	198.13708	1.88297	0.2069246	0.26371070	2.4083386	21	3 10.7	20.8
197994 2004 RG_{165}	16.3	X	138.04398	243.71397	200.50463	21.96413	0.3256336	0.26726879	2.3869164	21	5 14.9	20.6
197995 2004 RD_{167}	17.1	X	201.87147	231.80909	111.02234	4.67125	0.1404670	0.26643527	2.3918921	21	2 22.4	20.8
197996 2004 RT_{170}	15.8	X	77.03820	292.04956	358.50677	13.16011	0.0934355	0.23593994	2.5937915	21	11 5.2	19.6
197997 2004 RC_{171}	17.1	X	207.81578	168.20990	229.04640	1.48336	0.1507750	0.27563090	2.3383927	21	5 6.3	20.4
197998 2004 RO_{171}	16.7	X	131.32465	48.17992	1.36231	6.37811	0.1170488	0.26374691	2.4081182	21	3 2.6	19.8
197999 2004 RP_{177}	16.6	X	330.86848	60.93444	222.73193	6.76910	0.1060793	0.27936248	2.3175227	21	5 10.6	18.9
198000 2004 RS_{177}	16.5	X	63.65624	137.65772	286.81121	5.63748	0.1110407	0.25492155	2.4633816	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198001 2004 RJ_{179}	16.6	X	293.67577	333.70104	307.43593	5.85934	0.1189942	0.27302975	2.3532211	21	3 8.1	19.6
198002 2004 RO_{179}	16.4	X	183.04545	99.28661	268.50968	5.29360	0.1267830	0.26589050	2.3951580	21	3 2.6	20.1
198003 2004 RS_{181}	16.6	X	178.95395	78.25899	227.87651	4.58743	0.1307056	0.25727780	2.4483181	21	—	—
198004 2004 RB_{182}	16.2	X	348.22630	152.92433	207.14063	5.46303	0.0727932	0.23316644	2.6143196	21	10 3.6	19.1
198005 2004 RS_{186}	16.4	X	296.18521	45.93073	234.74295	5.77600	0.1066901	0.27211366	2.3584997	21	3 12.3	19.5
198006 2004 RE_{187}	16.3	X	100.27836	153.47672	244.79664	7.29038	0.1021316	0.25597134	2.4566417	21	1 1.3	19.2
198007 2004 RO_{191}	16.5	X	161.83023	70.27005	232.19555	5.18040	0.1063102	0.25270017	2.4777968	21	—	—
198008 2004 RP_{191}	16.6	X	222.97737	115.78739	216.55834	6.23361	0.1313221	0.26719760	2.3873404	21	2 25.6	20.3
198009 2004 RC_{198}	16.6	X	62.07532	28.12494	289.31940	4.87980	0.1354070	0.23867418	2.5739440	21	12 2.1	20.1
198010 2004 RU_{199}	15.5	X	279.65266	58.63731	354.27815	12.55652	0.1729835	0.22346509	2.6894466	21	8 18.9	19.0
198011 2004 RK_{200}	16.5	X	69.40264	125.90499	211.53460	17.76550	0.3274756	0.24249954	2.5468035	21	—	—
198012 2004 RF_{201}	15.7	X	356.55203	179.18242	261.94190	12.66219	0.2414564	0.23859422	2.5745190	21	—	—
198013 2004 RJ_{201}	15.7	X	1.48459	351.28512	4.25293	10.60613	0.1830862	0.23048668	2.6345442	21	10 26.3	18.4
198014 2004 RS_{202}	17.2	X	309.45984	256.48248	153.10230	3.32724	0.1069521	0.23442881	2.6049260	21	10 9.4	20.1
198015 2004 RP_{204}	15.8	X	157.12609	356.90834	221.98285	9.14273	0.0679924	0.23925228	2.5697961	21	11 7.8	19.5
198016 2004 RL_{205}	16.1	X	347.51309	170.99529	156.23441	14.69374	0.2693718	0.22892720	2.6464952	21	8 12.7	18.0
198017 2004 RW_{209}	16.3	X	262.83341	90.67370	217.57932	10.38050	0.1912730	0.27299861	2.3534001	21	2 28.1	20.1
198018 2004 RC_{218}	15.8	X	83.79095	8.97483	290.73773	11.63090	0.2114863	0.24008783	2.5638303	21	12 11.7	20.0
198019 2004 RH_{220}	15.4	X	327.71592	124.08814	313.64770	15.13581	0.1205419	0.23604618	2.5930132	21	12 20.0	18.4
198020 2004 RJ_{221}	14.7	X	88.99604	37.74465	330.25397	14.43784	0.1386059	0.24373726	2.5381743	21	—	—
198021 2004 RW_{221}	17.2	X	166.79982	92.50721	208.15304	4.89168	0.0774888	0.25425494	2.4676854	21	—	—
198022 2004 RZ_{224}	16.3	X	359.76778	100.79904	44.15386	0.87714	0.0641345	0.25867617	2.4394866	21	—	—
198023 2004 RC_{225}	16.3	X	33.64070	318.19311	347.80009	9.40134	0.1753910	0.23438841	2.6052253	21	10 12.7	19.5
198024 2004 RB_{226}	16.9	X	180.51322	266.44670	15.20925	4.57123	0.1730308	0.25513804	2.4619879	21	—	—
198025 2004 RX_{229}	16.7	X	28.15202	140.32956	203.63095	3.53729	0.0977452	0.23536453	2.5980173	21	11 17.0	19.8
198026 2004 RB_{230}	16.7	X	201.67307	146.09239	298.47407	0.98236	0.0407906	0.21943805	2.7222505	21	7 7.3	20.4
198027 2004 RB_{231}	16.4	X	47.14329	252.60826	13.31326	7.11091	0.2176622	0.22809273	2.6529460	21	9 19.3	19.6
198028 2004 RX_{231}	16.6	X	256.49527	292.84165	181.74697	2.24659	0.1553948	0.23129001	2.6284404	21	10 9.0	20.1
198029 2004 RD_{233}	17.2	X	41.44860	120.69242	184.75934	5.16403	0.2119571	0.23373807	2.6100555	21	11 2.8	20.4
198030 2004 RO_{238}	17.1	X	191.48210	86.63695	179.25280	10.12714	0.1468267	0.25422558	2.4678753	21	—	—
198031 2004 RA_{240}	17.5	X	114.88129	72.80046	337.17866	0.67858	0.1548692	0.26029019	2.4293916	21	2 15.0	20.2
198032 2004 RS_{241}	16.4	X	311.10699	76.63738	351.66505	11.74032	0.1593663	0.23598645	2.5934507	21	10 28.2	19.2
198033 2004 RR_{244}	16.8	X	297.24127	102.24950	140.04837	2.52344	0.1477007	0.26771131	2.3842854	21	1 19.9	20.0
198034 2004 RW_{244}	16.8	X	94.61830	243.42779	40.22603	1.99043	0.1290379	0.24110960	2.5565819	21	11 25.4	20.5
198035 2004 RK_{253}	16.0	X	225.53244	259.96379	17.07075	23.46201	0.1327427	0.26242111	2.4162222	21	—	—
198036 2004 RU_{254}	16.4	X	128.53205	248.06910	82.73250	7.27604	0.0995404	0.25211926	2.4816015	21	—	—
198037 2004 RY_{254}	16.5	X	177.65429	262.01587	63.71689	7.30799	0.1686855	0.26007992	2.4307008	21	1 11.3	20.2
198038 2004 RP_{256}	17.0	X	190.99935	333.98186	356.54663	5.07229	0.1199347	0.26310416	2.4120385	21	1 27.1	20.5
198039 2004 RW_{257}	17.1	X	169.53458	254.74267	165.16202	3.76543	0.0819140	0.27163690	2.3612585	21	4 25.9	20.4
198040 2004 RT_{266}	17.2	X	9.37677	23.17150	326.11854	4.92865	0.1414650	0.23584749	2.5944694	21	10 29.0	20.1
198041 2004 RN_{272}	16.9	X	182.14786	48.06070	154.43884	5.94829	0.1255986	0.24165647	2.5527234	21	11 13.3	20.8
198042 2004 RF_{275}	17.1	X	45.26302	13.25048	217.39427	3.35993	0.2004660	0.28429080	2.2906611	21	7 24.2	19.3
198043 2004 RF_{276}	17.4	X	132.99976	50.75371	324.09937	1.06667	0.1980807	0.25991043	2.4317574	21	1 29.1	20.6
198044 2004 RR_{276}	17.0	X	129.35841	71.55337	339.72050	6.29964	0.0907721	0.26588303	2.3952028	21	2 25.2	19.8
198045 2004 RJ_{281}	17.2	X	352.85135	119.15175	314.12107	1.41733	0.1496580	0.24364067	2.5388450	21	—	—
198046 2004 RB_{285}	17.1	X	20.49068	246.08912	151.38013	4.53826	0.0997290	0.24404924	2.5360106	21	—	—
198047 2004 RL_{288}	16.7	X	289.52425	270.07309	180.45772	3.21952	0.2333254	0.23087266	2.6316071	21	10 13.3	19.3
198048 2004 RR_{290}	15.7	X	278.11924	201.65281	209.11988	15.11675	0.0554533	0.22828638	2.6514456	21	8 23.5	19.6
198049 2004 RV_{290}	16.5	X	257.83144	317.45711	348.52584	5.66119	0.1459103	0.26961691	2.3730377	21	2 28.7	19.9
198050 2004 RR_{294}	17.1	X	103.77486	207.04247	312.22515	1.69140	0.1079130	0.27714128	2.3298890	21	6 23.1	20.1
198051 2004 RS_{298}	16.2	X	152.55327	29.94077	175.16958	8.36507	0.1391572	0.23599726	2.5933716	21	10 17.8	20.3
198052 2004 RU_{298}	16.9	X	108.00292	106.35129	174.61917	3.58044	0.1482503	0.24249174	2.5468581	21	12 7.5	20.9
198053 2004 RY_{301}	17.3	X	309.03181	238.30045	37.27749	2.80134	0.2022567	0.27569238	2.3380450	21	3 11.1	20.2
198054 2004 RL_{305}	17.3	X	179.38436	198.53583	135.31332	4.71042	0.1821110	0.26047755	2.4282264	21	1 22.7	21.1
198055 2004 RF_{307}	15.1	X	331.08947	322.16570	83.11298	12.97004	0.2067510	0.22854662	2.6494324	21	11 11.8	17.6
198056 2004 RT_{309}	16.7	X	193.85695	270.77947	45.60037	6.84429	0.1237854	0.26165273	2.4209503	21	1 12.5	20.4
198057 2004 RB_{310}	16.1	X	4.43345	203.92624	225.32983	5.94068	0.3071676	0.23884843	2.5726919	21	—	—
198058 2004 RD_{311}	17.0	X	190.13866	295.55091	36.57858	4.42512	0.2829632	0.26195731	2.4190733	21	2 5.3	21.2
198059 2004 RM_{316}	15.9	X	112.60318	40.63056	217.97026	14.30800	0.0649702	0.23861493	2.5743701	21	11 8.4	19.5
198060 2004 RH_{320}	16.6	X	121.51687	138.83854	229.71323	8.82495	0.1497744	0.25536978	2.4604982	21	—	—
198061 2004 RC_{322}	16.7	X	320.90581	111.11230	278.69173	3.27589	0.2263002	0.23034245	2.6356439	21	9 15.9	18.9
198062 2004 RH_{322}	16.1	X	68.40782	44.26258	242.25562	4.07591	0.2939915	0.23653978	2.5894046	21	11 19.3	20.2
198063 2004 RL_{323}	15.9	X	276.73941	209.22889	221.29610	13.52509	0.2705680	0.22666656	2.6640626	21	8 13.8	19.9
198064 2004 RG_{325}	15.4	X	6.39217	325.68097	12.30615	16.24190	0.0984198	0.22849214	2.6498535	21	10 4.6	18.2
198065 2004 RO_{325}	16.5	X	19.90927	169.64989	246.13440	12.68538	0.2863146	0.23954694	2.5676883	21	—	—
198066 2004 RB_{326}	15.9	X	350.48195	19.30049	349.27728	11.52628	0.1806524	0.23010614	2.6374481	21	10 20.7	18.6
198067 2004 RS_{327}	16.9	X	114.50664	162.78792	196.69729	7.34506	0.0833553	0.25403987	2.4690779	21	—	—
198068 2004 RU_{328}	16.4	X	40.87305	357.31387	337.99450	4.84313	0.1523767	0.23698965	2.5861267	21	11 30.3	19.8
198069 2004 RW_{330}	16.9	X	254.79375	255.57717	25.67183	2.19627	0.1659883	0.26654067	2.3912614	21	1 25.3	20.7
198070 2004 RQ_{333}	16.1	X	158.07536	289.08342	34.15528	8.66730	0.2605490	0.25729739	2.4481938	21	—	—
198071 2004 RT_{341}	17.4	X	225.39886	44.24412	267.19514	1.73403	0.0744263	0.26746094	2.3857731	21	2 4.3	20.9
198072 2004 RH_{342}	16.4	X	180.86169	52.73069	239.75347	5.14925	0.1054782	0.25709357	2.4494876	21	—	—
198073 2004 RM_{345}	16.9	X	245.47005	194.82672	212.98824	1.17475	0.0795702	0.22089675	2.7102530	21	7 8.1	20.6
198074 2004 SH_{2}	16.7	X	159.18706	299.18356	75.61090	3.69784	0.2112921	0.26137561	2.4226612	21	2 27.6	20.4
198075 2004 SK_{3}	16.3	X	140.03699	21.41792	16.42670	12.53742	0.2197331	0.26509087	2.3999722	21	3 12.4	19.9
198076 2004 SF_{4}	15.8	X	108.28939	225.73518	319.39686	12.08557	0.1187880	0.22587794	2.6702597	21	8 5.0	19.5
198077 2004 SS_{4}	16.1	X	350.80770	248.14309	192.45314	10.53810	0.2033291	0.23868974	2.5738321	21	—	—
198078 2004 SN_{14}	16.1	X	214.99046	245.79540	74.51581	7.88462	0.1324555	0.26426040	2.4049977	21	2 8.3	19.9
198079 2004 SP_{14}	16.2	X	70.19245	241.44519	79.49729	7.55396	0.2355508	0.24202711	2.5501166	21	12 27.2	20.2
198080 2004 SM_{15}	17.2	X	125.65108	323.25002	31.66210	10.68048	0.2125942	0.25456868	2.4656574	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198081 2004 SY_{15}	16.4	X	156.64230	29.22041	34.72865	10.21690	0.1892861	0.26813777	2.3817566	21	4 24.0	20.1
198082 2004 SB_{18}	16.4	X	63.51089	234.24703	129.91370	10.80137	0.2683425	0.24528331	2.5274974	21	—	—
198083 2004 SA_{19}	16.8	X	256.88674	329.68226	324.24006	3.92226	0.1455012	0.26828163	2.3809051	21	2 12.3	20.4
198084 2004 SG_{21}	15.4	X	232.45326	266.37292	144.95124	23.50620	0.2990736	0.21640384	2.7476373	21	6 13.5	20.7
198085 2004 SD_{22}	16.8	X	123.30360	292.05251	74.59842	2.26202	0.1902355	0.25755117	2.4465853	21	1 6.0	19.7
198086 2004 SL_{23}	16.6	X	25.94925	212.09732	18.65283	2.81334	0.1157017	0.27498065	2.3420777	21	6 2.6	18.8
198087 2004 ST_{24}	16.3	X	234.48233	159.83830	255.23877	2.01907	0.0900042	0.21946743	2.7220076	21	7 3.3	20.3
198088 2004 SH_{25}	16.6	X	116.26052	215.72527	27.82449	3.54508	0.0931375	0.23304452	2.6152314	21	10 25.3	20.3
198089 2004 ST_{25}	17.4	X	107.61920	203.21745	206.81198	3.96479	0.2177130	0.25595818	2.4567259	21	2 14.3	20.5
198090 2004 SC_{27}	17.1	X	337.85011	322.15802	273.62127	1.41391	0.1673510	0.27372294	2.3492465	21	3 1.7	19.5
198091 2004 SS_{27}	17.5	X	89.29944	271.95155	171.91824	9.03058	0.2058532	0.26059750	2.4274813	21	3 3.7	20.1
198092 2004 SU_{27}	17.5	X	86.68150	265.28280	183.63792	1.98407	0.1545173	0.26184555	2.4197616	21	2 25.9	19.9
198093 2004 SW_{30}	16.4	X	307.62891	1.26546	9.56771	2.46033	0.1127680	0.22644881	2.6657701	21	8 9.9	19.5
198094 2004 SK_{32}	16.4	X	74.43712	247.28774	50.77711	6.10147	0.2098823	0.23835336	2.5762531	21	11 30.1	20.4
198095 2004 SY_{32}	16.1	X	163.39852	27.96018	40.84344	9.43959	0.1162222	0.26890156	2.3772444	21	5 2.0	19.5
198096 2004 SR_{37}	16.2	X	318.93345	308.68414	62.06848	4.88519	0.1189151	0.22729706	2.6591337	21	8 30.6	19.2
198097 2004 SL_{38}	16.6	X	46.46936	152.84560	184.53987	13.96940	0.1818326	0.23890182	2.5723087	21	12 16.1	20.4
198098 2004 SL_{40}	15.5	X	206.17788	268.37957	171.26866	8.46682	0.2051229	0.21460103	2.7630040	21	6 27.9	20.2
198099 2004 SO_{40}	16.3	X	16.99269	353.63759	9.07642	4.72550	0.2736744	0.23505005	2.6003341	21	12 22.4	19.2
198100 2004 SQ_{41}	16.7	X	335.75061	322.86753	267.24944	6.22669	0.0699260	0.27105840	2.3646170	21	3 3.3	19.6
198101 2004 SJ_{44}	17.0	X	221.39216	94.47163	215.71812	2.40553	0.1987892	0.26399964	2.4065810	21	1 29.6	21.0
198102 2004 SX_{47}	15.5	X	100.89238	290.37414	13.05189	15.13270	0.1237011	0.23941900	2.5686030	21	12 25.5	19.7
198103 2004 SZ_{48}	15.8	X	226.47282	320.67833	21.62935	10.70584	0.2192134	0.27032359	2.3689001	21	3 16.5	19.9
198104 2004 SO_{49}	16.8	X	110.15087	239.93119	194.31201	5.98485	0.1102460	0.26263794	2.4148922	21	3 4.4	19.8
198105 2004 SS_{50}	16.2	X	69.13057	281.68656	11.61235	14.48834	0.2222095	0.23675666	2.5878231	21	11 16.2	20.3
198106 2004 SH_{51}	15.6	X	250.56798	7.79346	47.21601	13.46197	0.1554347	0.21748422	2.7385303	21	7 16.2	19.9
198107 2004 SG_{52}	16.3	X	321.74817	297.64090	324.30868	6.35098	0.0869930	0.27280978	2.3544859	21	3 25.1	19.2
198108 2004 SU_{53}	16.5	X	176.29081	261.53040	80.72030	3.07869	0.1202994	0.25951132	2.4342500	21	1 26.5	19.9
198109 2004 SY_{54}	15.3	X	294.51763	261.39355	159.90312	12.90917	0.1620379	0.22524051	2.6752952	21	9 22.4	18.4
198110 Heathrhoades	16.2	X	19.49585	197.25227	218.98969	4.07065	0.2145901	0.23974315	2.5662871	21	—	—
198111 2004 SZ_{56}	16.0	X	299.55957	63.29742	138.67363	6.09364	0.0748688	0.25836532	2.4414429	21	—	—
198112 2004 TM_1	16.1	X	251.11708	185.51114	208.27967	7.91165	0.2700801	0.21802352	2.7340125	21	6 5.9	20.6
198113 2004 TY_1	16.9	X	232.95486	121.88306	200.91800	6.11499	0.1339773	0.26736370	2.3863516	21	2 23.8	20.7
198114 2004 TQ_2	17.0	X	58.86118	304.98617	208.76928	9.48977	0.1494762	0.26464714	2.4026541	21	4 11.9	19.3
198115 2004 TV_2	15.8	X	176.48801	221.61180	12.01684	4.68705	0.1886257	0.24241381	2.5474039	21	12 9.8	20.0
198116 2004 TJ_4	16.7	X	62.17772	177.38316	202.70906	0.72526	0.2011900	0.24500722	2.5293958	21	—	—
198117 2004 TF_5	15.7	X	126.67953	117.53008	38.32662	6.46650	0.0038984	0.21687727	2.7436373	21	7 5.6	19.4
198118 2004 TJ_6	16.7	X	112.37751	212.32010	148.36428	15.17623	0.2110255	0.25337030	2.4734259	21	—	—
198119 2004 TX_8	17.4	X	156.48995	321.82441	27.24347	1.46116	0.1972153	0.25792013	2.4442515	21	1 22.1	21.0
198120 2004 TZ_{11}	17.1	X	218.55019	278.39105	45.44839	3.65957	0.2049172	0.26565387	2.3965801	21	2 14.8	21.2
198121 2004 TM_{12}	15.8	X	265.59698	317.69407	171.27707	13.15481	0.2042258	0.23092757	2.6311899	21	11 4.6	19.2
198122 2004 TY_{14}	17.1	X	198.94563	197.76709	159.82724	3.61752	0.1447609	0.26594456	2.3948334	21	3 9.1	20.6
198123 2004 TB_{15}	17.1	X	322.96908	76.32903	352.52710	2.67350	0.1046660	0.23718989	2.5846710	21	11 27.6	19.9
198124 2004 TT_{15}	17.2	X	112.30026	28.59568	31.23532	2.81527	0.1749299	0.25989509	2.4318531	21	3 1.1	20.2
198125 2004 TV_{17}	16.4	X	47.88718	312.67804	28.20997	11.96407	0.3126203	0.23902978	2.5713905	21	—	—
198126 2004 TS_{18}	16.4	X	46.67430	194.83412	158.13698	7.17017	0.1545126	0.23960291	2.5672884	21	12 31.7	20.0
198127 2004 TE_{23}	16.8	X	260.54472	342.68502	273.32375	1.83712	0.1716571	0.26191706	2.4193212	21	—	—
198128 2004 TS_{25}	16.4	X	348.62294	210.81297	333.33823	1.54880	0.1753669	0.26108532	2.4244566	21	1 7.9	18.9
198129 2004 TG_{28}	16.3	X	347.30277	353.49428	184.11018	5.63161	0.0433388	0.26009782	2.4305893	21	1 15.7	19.5
198130 2004 TZ_{30}	16.7	X	313.13576	64.92201	334.50264	5.28326	0.2297832	0.22978042	2.6399399	21	9 13.4	18.9
198131 2004 TS_{31}	16.1	X	324.99572	179.98816	225.82720	3.25586	0.2434290	0.23177812	2.6247488	21	10 22.9	18.2
198132 2004 TQ_{32}	16.4	X	121.64197	307.45761	273.66949	2.34644	0.0346597	0.22889276	2.6467607	21	9 26.5	20.0
198133 2004 TX_{33}	16.4	X	36.47325	300.40476	79.46966	3.11014	0.1412486	0.24136749	2.5547605	21	—	—
198134 2004 TT_{34}	16.1	X	243.92995	231.14672	187.89590	9.57430	0.1423529	0.22142696	2.7059248	21	7 12.1	20.3
198135 2004 TK_{35}	16.7	X	262.44513	309.43250	212.47267	5.98111	0.0888176	0.24131641	2.5551210	21	12 29.8	19.9
198136 2004 TX_{35}	16.6	X	73.83815	326.92205	9.36947	3.91257	0.1533595	0.24204545	2.5499878	21	—	—
198137 2004 TT_{36}	16.5	X	273.08146	17.52488	15.53686	1.74131	0.0839338	0.22284828	2.6944070	21	7 24.1	20.1
198138 2004 TW_{37}	16.5	X	332.80085	155.40267	27.26194	6.97140	0.0700932	0.25672640	2.4518225	21	—	—
198139 2004 TT_{38}	17.0	X	177.31390	19.37463	169.49069	2.33937	0.0869440	0.23274252	2.6174932	21	10 22.1	20.9
198140 2004 TB_{39}	17.5	X	235.09136	110.02623	179.13070	2.64437	0.1691605	0.26199529	2.4188395	21	1 16.7	21.3
198141 2004 TB_{40}	16.5	X	271.58164	16.02998	203.22138	2.41489	0.1325495	0.25507374	2.4624016	21	—	—
198142 2004 TF_{42}	16.5	X	38.10714	99.80343	285.90084	2.33145	0.1162624	0.24135033	2.5548817	21	—	—
198143 2004 TA_{46}	16.6	X	139.22352	31.10660	264.33904	1.17626	0.0975990	0.24482030	2.5306831	21	—	—
198144 2004 TK_{46}	16.7	X	128.98796	323.40807	352.62406	1.55332	0.1172197	0.24670267	2.5177938	21	—	—
198145 2004 TC_{48}	15.8	X	136.82529	223.97660	29.70827	4.43340	0.1808603	0.23813102	2.5778565	21	11 29.8	20.1
198146 2004 TE_{50}	16.5	X	44.99829	341.28885	334.14075	3.76577	0.1475170	0.23231134	2.6207310	21	11 7.9	19.9
198147 2004 TR_{51}	16.3	X	305.51084	135.43245	261.24070	2.94508	0.0975011	0.22634621	2.6665755	21	9 11.5	19.6
198148 2004 TY_{52}	16.4	X	50.63839	29.99488	22.52334	1.08864	0.1552906	0.24595399	2.5229006	21	—	—
198149 2004 TL_{53}	16.5	X	284.00988	28.67305	37.58938	3.97562	0.1720922	0.22652242	2.6651925	21	9 11.0	19.8
198150 2004 TM_{53}	16.7	X	252.65346	226.63689	203.47654	1.36727	0.0448573	0.22277640	2.6949865	21	8 20.9	20.4
198151 2004 TN_{53}	16.9	X	302.39744	45.43036	34.21947	4.08687	0.1102346	0.23213922	2.6220262	21	11 6.3	19.8
198152 2004 TY_{53}	16.7	X	330.73508	194.20176	172.67704	0.73397	0.1029910	0.22668856	2.6638901	21	9 13.3	19.4
198153 2004 TD_{55}	16.2	X	298.04671	134.26992	187.50596	2.08874	0.3040379	0.21858324	2.7293432	21	4 18.7	19.9
198154 2004 TJ_{55}	16.5	X	358.11979	336.59896	71.93009	1.88538	0.1626809	0.23700338	2.5860268	21	—	—
198155 2004 TD_{61}	16.6	X	295.93205	148.92801	155.09184	7.34556	0.1285915	0.27494801	2.3422630	21	4 14.9	19.6
198156 2004 TB_{66}	17.0	X	149.19144	220.22396	133.27135	3.51473	0.1927521	0.25690729	2.4506715	21	1 19.3	20.5
198157 2004 TM_{66}	15.8	X	5.23254	310.30690	62.33791	9.45751	0.0570515	0.23460210	2.6036431	21	11 16.5	18.9
198158 2004 TP_{69}	16.0	X	341.90830	297.63214	94.59718	4.14675	0.0750734	0.23519815	2.5992424	21	11 9.6	19.0
198159 2004 TA_{71}	16.6	X	305.53410	53.47338	231.65259	4.73212	0.2178603	0.27427619	2.3460863	21	3 14.1	19.8
198160 2004 TR_{71}	17.4	X	315.80781	152.79991	260.24040	0.46494	0.0806229	0.23319201	2.6141285	21	10 25.2	20.3

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198161 2004 TR_{72}	16.7	X	332.64280	120.50527	81.72214	2.02914	0.1337235	0.26001742	2.4310903	21	1 15.9	19.8
198162 2004 TG_{73}	15.9	X	25.81824	227.55837	27.33570	9.48376	0.1016005	0.21929270	2.7234533	21	7 11.9	19.2
198163 2004 TS_{73}	16.0	X	319.46054	205.28197	223.92882	8.47847	0.2264881	0.23277830	2.6172250	21	11 17.2	18.0
198164 2004 TZ_{73}	16.8	X	26.42191	25.41999	345.36114	2.30749	0.2455929	0.23777208	2.5804502	21	—	—
198165 2004 TZ_{75}	15.9	X	6.98386	135.09370	209.78204	13.72982	0.2115729	0.23131319	2.6282648	21	10 29.8	18.4
198166 2004 TP_{77}	16.3	X	249.32903	170.73802	17.41710	9.03421	0.0862311	0.24302008	2.5431654	21	—	—
198167 2004 TO_{79}	16.5	X	295.92985	243.05094	208.17207	2.91396	0.1657847	0.23282419	2.6168810	21	11 5.6	19.1
198168 2004 TM_{81}	17.1	X	5.50528	29.04957	347.96594	2.51555	0.1240808	0.23678226	2.5876366	21	11 29.8	20.1
198169 2004 TM_{86}	17.1	X	20.91674	234.70903	196.03934	2.90154	0.0597973	0.24733986	2.5134677	21	—	—
198170 2004 TQ_{90}	16.4	X	21.82184	124.90722	242.91187	3.13379	0.1547590	0.23721229	2.5845083	21	12 17.9	19.5
198171 2004 TA_{92}	17.1	X	233.49444	57.77039	215.66446	4.98340	0.1332158	0.25786578	2.4445950	21	—	—
198172 2004 TF_{93}	16.7	X	263.87398	236.65071	1.93465	1.00415	0.1409206	0.25598485	2.4565553	21	—	—
198173 2004 TV_{97}	16.4	X	26.33782	171.14238	190.47425	2.63783	0.0759869	0.23673260	2.5879984	21	12 4.7	19.5
198174 2004 TY_{101}	16.1	X	319.65331	38.59495	226.57774	5.09030	0.0383142	0.20841605	2.8174006	21	4 13.0	19.9
198175 2004 TG_{103}	16.1	X	326.37632	290.87253	242.81113	4.10164	0.0269222	0.25275991	2.4774064	21	—	—
198176 2004 TK_{103}	15.6	X	154.74368	43.72254	226.36650	10.13058	0.0973238	0.24220279	2.5488833	21	—	—
198177 2004 TL_{103}	16.5	X	5.66959	242.29254	210.27323	12.43915	0.2177787	0.24431448	2.5341749	21	—	—
198178 2004 TL_{104}	16.0	X	37.96254	204.43282	132.24603	10.24198	0.1052419	0.23475133	2.6025395	21	11 24.6	19.5
198179 2004 TJ_{106}	16.2	X	198.84899	218.82506	176.20872	6.00197	0.0452710	0.27170620	2.3608570	21	4 26.5	19.3
198180 2004 TH_{107}	16.2	X	355.56700	244.58482	188.58767	14.80209	0.0999667	0.24271487	2.5452970	21	—	—
198181 2004 TE_{108}	16.5	X	183.91007	242.88002	75.27762	6.46186	0.1072163	0.25733965	2.4479258	21	1 3.3	20.1
198182 2004 TR_{108}	15.6	X	104.71643	225.91059	9.97517	8.94153	0.1522309	0.23308958	2.6148943	21	10 8.2	19.5
198183 2004 TD_{109}	16.0	X	331.89750	194.08800	219.53484	14.54088	0.0730257	0.23402096	2.6079517	21	11 21.9	19.1
198184 2004 TU_{109}	15.3	X	340.59221	268.93004	118.71784	12.85946	0.1738492	0.23231139	2.6207306	21	11 8.7	18.1
198185 2004 TC_{114}	15.9	X	325.04455	236.93590	227.39088	3.90234	0.2266583	0.23756229	2.5819691	21	—	—
198186 2004 TE_{114}	15.9	X	60.91974	258.36871	58.37156	3.60086	0.1832831	0.23537212	2.5979615	21	12 5.8	19.5
198187 2004 TM_{124}	16.1	X	117.31181	64.01759	36.75666	10.01956	0.1492846	0.26742404	2.3859926	21	4 25.9	19.3
198188 2004 TC_{125}	16.0	X	21.56052	262.37151	34.76919	11.89118	0.1556233	0.22969837	2.6405685	21	9 15.5	19.0
198189 2004 TG_{125}	16.8	X	1.41895	58.19460	16.02359	5.54058	0.1559315	0.24370759	2.5383803	21	—	—
198190 2004 TD_{126}	17.2	X	128.40542	234.00007	85.09714	3.84797	0.2374494	0.25094938	2.4893080	21	—	—
198191 2004 TU_{127}	16.8	X	236.12467	280.63717	57.71326	7.93646	0.1300984	0.26950077	2.3737194	21	3 24.5	20.4
198192 2004 TR_{128}	17.0	X	129.75107	248.58071	135.33533	2.55776	0.1665335	0.25746363	2.4471399	21	2 1.9	20.2
198193 2004 TK_{129}	16.5	X	30.34800	284.86405	96.37818	4.45558	0.1463362	0.24085020	2.5584173	21	—	—
198194 2004 TH_{131}	16.8	X	98.53042	257.46030	69.58072	4.66648	0.2727083	0.24506377	2.5290067	21	—	—
198195 2004 TY_{133}	15.8	X	3.02045	129.04814	216.70538	14.29855	0.1743966	0.23000563	2.6382163	21	10 16.1	18.4
198196 2004 TY_{136}	15.6	X	231.15952	91.08237	4.72769	13.74239	0.0863852	0.22286136	2.6943015	21	8 27.7	19.5
198197 2004 TO_{137}	16.5	X	59.09850	24.34608	65.62552	4.22594	0.2122539	0.25250584	2.4790680	21	1 15.8	18.5
198198 2004 TZ_{137}	16.5	X	85.09474	192.40579	127.39380	4.44568	0.2988235	0.24291947	2.5438676	21	—	—
198199 2004 TA_{138}	16.1	X	282.88739	215.45232	185.98652	12.94031	0.1869902	0.22369917	2.6875701	21	7 29.4	19.8
198200 2004 TX_{138}	16.4	X	308.29131	84.98008	328.60430	10.46084	0.1230676	0.23227368	2.6210142	21	10 4.5	19.4
198201 2004 TY_{141}	16.5	X	54.61578	213.35426	75.56732	1.95732	0.0540955	0.23167904	2.6254972	21	10 5.0	19.8
198202 2004 TE_{142}	16.0	X	199.22336	131.13297	253.87072	2.68042	0.1067248	0.20994881	2.8036714	21	4 16.4	20.2
198203 2004 TL_{142}	17.0	X	245.88244	133.87208	314.75236	0.99414	0.0428826	0.22686687	2.6624942	21	9 6.6	20.5
198204 2004 TH_{144}	15.7	X	65.02814	242.03000	33.43674	12.39948	0.1578830	0.23046336	2.6347220	21	10 16.9	19.2
198205 2004 TM_{149}	16.6	X	219.92257	239.97426	262.89669	2.37305	0.0797322	0.23131942	2.6282176	21	10 10.0	20.4
198206 2004 TH_{150}	16.6	X	348.49890	318.79193	243.98249	1.40893	0.1458904	0.26378997	2.4078561	21	2 5.9	19.0
198207 2004 TZ_{150}	17.0	X	298.18058	324.94205	290.13318	1.29127	0.1630732	0.26656361	2.3911242	21	2 4.6	20.4
198208 2004 TV_{156}	17.2	X	330.41518	3.81684	52.76672	2.32465	0.0779908	0.23606433	2.5928803	21	11 23.3	20.0
198209 2004 TE_{160}	15.7	X	4.17252	71.90617	219.02690	12.41808	0.1792060	0.22221152	2.6995518	21	7 22.8	18.6
198210 2004 TF_{163}	16.4	X	97.64062	79.48089	186.51689	2.69086	0.1887188	0.23355414	2.6114257	21	11 11.6	20.6
198211 2004 TN_{164}	15.7	X	264.12910	279.96446	202.01743	12.31818	0.1312441	0.23192723	2.6236238	21	11 2.8	18.9
198212 2004 TU_{165}	17.1	X	268.46321	303.09155	300.27235	1.76600	0.1838538	0.26165570	2.4209319	21	—	—
198213 2004 TE_{166}	17.1	X	326.80196	68.18880	211.61932	2.62353	0.1364012	0.27681932	2.3316952	21	4 22.7	19.5
198214 2004 TQ_{167}	16.7	X	355.42815	96.02276	200.62250	3.71021	0.1277905	0.22504861	2.6768158	21	7 15.8	19.5
198215 2004 TR_{167}	17.0	X	5.29788	96.62985	234.59670	0.72875	0.1086996	0.23121146	2.6290357	21	9 23.9	19.7
198216 2004 TY_{168}	16.7	X	347.58740	183.41052	174.43275	7.03128	0.2707931	0.23142264	2.6274360	21	10 10.3	18.4
198217 2004 TS_{171}	15.7	X	94.02667	95.58511	157.79611	13.79229	0.0798843	0.23140154	2.6275958	21	10 15.0	19.5
198218 2004 TZ_{173}	15.3	X	327.60554	18.90237	359.43631	13.13834	0.2932344	0.22502137	2.6770319	21	9 10.6	17.1
198219 2004 TM_{175}	16.9	X	18.24177	188.65469	213.34907	3.13070	0.2387747	0.23960437	2.5672780	21	—	—
198220 2004 TQ_{175}	17.0	X	345.81409	212.93379	207.99560	2.76778	0.1970531	0.23721052	2.5845211	21	—	—
198221 2004 TK_{176}	15.7	X	290.90103	217.59320	216.04985	10.68210	0.2399353	0.22629181	2.6670029	21	9 15.6	18.8
198222 2004 TL_{176}	16.1	X	75.92914	275.71965	43.10263	4.43983	0.2470798	0.23930770	2.5693993	21	12 30.6	20.3
198223 2004 TL_{180}	17.5	X	53.04086	306.59821	152.28886	2.36688	0.1759351	0.25589625	2.4571222	21	1 10.9	19.5
198224 2004 TX_{180}	17.6	X	205.41228	132.72528	167.03774	2.20029	0.2358553	0.26154942	2.4215877	21	1 6.1	21.6
198225 2004 TR_{182}	16.3	X	208.03566	107.30842	329.27256	4.17216	0.0778746	0.21911597	2.7249175	21	7 2.6	20.4
198226 2004 TF_{184}	16.9	X	253.17776	151.11625	346.89093	4.26635	0.1832501	0.23494348	2.6011204	21	10 29.9	20.4
198227 2004 TE_{186}	16.2	X	215.80190	341.68876	225.35810	3.88681	0.0283733	0.24288615	2.5441003	21	—	—
198228 2004 TO_{186}	16.3	X	52.25485	312.03571	208.91395	6.53367	0.1315126	0.26566669	2.3965030	21	4 7.6	18.4
198229 2004 TV_{186}	17.3	X	237.75017	307.00891	2.34545	2.37226	0.1827453	0.26637174	2.3922723	21	2 12.7	21.2
198230 2004 TW_{188}	16.2	X	44.42489	347.40310	197.38536	6.58941	0.0687479	0.27007362	2.3703616	21	4 24.3	18.8
198231 2004 TY_{194}	16.1	X	163.61738	357.26168	253.65246	3.64788	0.1448542	0.24154003	2.5535438	21	12 21.5	20.2
198232 2004 TU_{195}	17.4	X	226.92484	54.85023	233.68567	1.95283	0.1894826	0.25998538	2.4312900	21	1 9.3	21.3
198233 2004 TY_{195}	17.1	X	315.54031	154.05863	303.23263	1.26876	0.0490545	0.23890595	2.5722790	21	12 26.0	20.1
198234 2004 TN_{198}	16.5	X	312.96573	272.89580	191.44070	3.73552	0.1646730	0.23799325	2.5788512	21	12 29.0	19.0
198235 2004 TU_{202}	15.6	X	9.47026	270.30398	38.33371	14.37586	0.0368233	0.22173151	2.7034464	21	9 1.3	19.3
198236 2004 TW_{202}	16.9	X	87.06512	300.03932	21.74377	4.45001	0.2069183	0.24028442	2.5624317	21	—	—
198237 2004 TR_{203}	16.1	X	116.75466	18.83600	239.96845	5.98532	0.0788893	0.23132437	2.6281801	21	11 12.6	19.8
198238 2004 TB_{204}	16.1	X	318.39928	51.19338	40.41821	14.73831	0.2045618	0.23426582	2.6061342	21	12 18.3	18.6
198239 2004 TE_{204}	16.2	X	334.17083	350.71248	317.01176	1.68201	0.0695134	0.21624472	2.7489850	21	6 28.3	19.5
198240 2004 TR_{204}	16.5	X	106.88880	90.29795	229.13006	2.35186	0.0860533	0.24083749	2.5585073	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198241 2004 TU_{204}	16.4	X	310.86671	98.70500	242.52552	1.56306	0.1981698	0.22058990	2.7127658	21	6 19.2	19.4
198242 2004 TV_{204}	16.7	X	350.86112	94.25624	265.08794	1.05788	0.0621639	0.22742214	2.6581586	21	10 5.8	19.8
198243 2004 TN_{206}	16.1	X	60.55450	139.38789	203.54824	3.41519	0.1187236	0.23758650	2.5817937	21	12 30.1	19.8
198244 2004 TS_{206}	16.4	X	186.87439	274.31685	212.25259	2.26336	0.0589351	0.21911789	2.7249016	21	8 12.3	20.4
198245 2004 TB_{209}	17.1	X	192.60540	85.53942	204.90035	4.78146	0.1499848	0.25634947	2.4542253	21	—	—
198246 2004 TS_{211}	15.8	X	73.40109	151.45492	216.51507	14.37481	0.1241216	0.24478781	2.5309070	21	—	—
198247 2004 TP_{213}	15.9	X	157.90177	1.76500	210.03295	13.00984	0.0814691	0.23508432	2.6000814	21	10 30.3	19.8
198248 2004 TB_{214}	16.8	X	345.14344	168.11217	244.44751	3.23397	0.1935293	0.23617507	2.5920698	21	12 21.7	19.3
198249 2004 TA_{216}	16.3	X	51.37519	6.50334	315.97234	1.79030	0.1472316	0.23475439	2.6025170	21	11 26.7	19.7
198250 2004 TS_{216}	16.5	X	34.32845	322.19478	124.31031	8.23689	0.1785657	0.25161074	2.4849439	21	—	—
198251 2004 TV_{218}	17.1	X	323.67588	130.41937	354.86305	4.64982	0.1660225	0.24319137	2.5419711	21	—	—
198252 2004 TD_{222}	16.1	X	353.46619	184.53709	158.55698	13.35486	0.1901951	0.22930961	2.6435521	21	9 26.9	18.5
198253 2004 TE_{222}	15.8	X	18.32507	152.16471	176.93538	16.35108	0.1614945	0.23155039	2.6264695	21	10 23.4	18.9
198254 2004 TJ_{224}	17.4	X	87.18720	41.31474	259.78013	1.60693	0.1268087	0.24022546	2.5628510	21	12 9.0	21.2
198255 2004 TK_{224}	17.5	X	340.80976	353.24719	236.09489	2.24544	0.0561432	0.26830638	2.3807587	21	3 14.8	20.3
198256 2004 TY_{228}	16.7	X	61.20518	322.41344	359.86961	0.68205	0.1122072	0.23745006	2.5827827	21	12 4.2	20.1
198257 2004 TQ_{229}	16.7	X	266.06869	231.66179	212.13807	0.23550	0.0453657	0.22921631	2.6442694	21	9 27.2	20.1
198258 2004 TX_{238}	16.6	X	228.44151	242.47523	257.61979	1.34925	0.0435303	0.23105212	2.6302442	21	10 22.2	20.3
198259 2004 TN_{242}	16.2	X	185.75871	263.95126	84.33419	7.79292	0.1288973	0.26432593	2.4046002	21	2 14.6	19.9
198260 2004 TZ_{242}	16.0	X	3.57768	260.80343	87.10400	13.90601	0.1932062	0.23229824	2.6208295	21	10 31.4	18.8
198261 2004 TJ_{243}	16.8	X	321.51727	107.15759	351.93190	3.15348	0.1279675	0.23811100	2.5780010	21	—	—
198262 2004 TS_{247}	15.9	X	40.94277	250.24267	85.36110	13.86350	0.2216937	0.23671656	2.5881153	21	12 12.3	19.2
198263 2004 TW_{249}	15.8	X	329.24572	210.17346	133.20483	14.37341	0.2643603	0.22570329	2.6716371	21	7 18.8	18.1
198264 2004 TB_{257}	16.2	X	340.67158	342.05546	25.04189	14.85795	0.1183472	0.23010814	2.6374327	21	10 4.9	19.0
198265 2004 TH_{261}	17.1	X	102.93111	98.70962	195.42942	9.78137	0.2379000	0.24225714	2.5485021	21	12 22.8	21.6
198266 2004 TT_{262}	15.7	X	296.58265	318.31306	34.99875	7.37914	0.1498551	0.21962363	2.7207168	21	6 21.4	19.2
198267 2004 TV_{263}	16.2	X	1.84105	45.15610	269.43618	2.72360	0.0793815	0.22405790	2.6847007	21	8 21.5	19.4
198268 2004 TK_{264}	15.7	X	70.17716	257.62927	21.02161	5.88194	0.1433092	0.23089767	2.6314170	21	10 23.2	19.2
198269 2004 TQ_{264}	15.9	X	153.53335	267.82864	16.52941	5.00217	0.1491770	0.24565820	2.5249253	21	—	—
198270 2004 TU_{264}	16.8	X	1.58602	70.35610	286.88602	0.90501	0.1649086	0.23184410	2.6242508	21	10 30.2	19.5
198271 2004 TG_{265}	16.8	X	345.98139	328.79115	17.60412	2.62002	0.1254513	0.22716561	2.6601594	21	9 11.9	19.6
198272 2004 TV_{266}	16.6	X	269.05675	243.74793	21.41364	2.07535	0.1777649	0.26148286	2.4219986	21	1 18.6	20.3
198273 2004 TW_{266}	16.5	X	73.20291	75.47044	208.37431	3.63641	0.1249814	0.23205323	2.6226740	21	10 31.9	20.2
198274 2004 TM_{270}	16.8	X	241.13161	227.45132	79.50985	2.56109	0.1886551	0.26478854	2.4017986	21	2 12.9	20.7
198275 2004 TE_{274}	16.1	X	21.75560	57.62632	270.20911	1.52362	0.2106796	0.23105793	2.6302001	21	10 31.6	19.0
198276 2004 TC_{276}	15.8	X	303.76321	93.65423	218.16026	12.17708	0.2291794	0.21605738	2.7505739	21	4 23.5	19.5
198277 2004 TD_{276}	16.6	X	345.85255	233.33408	217.33373	4.53854	0.2392396	0.23909514	2.5709219	21	—	—
198278 2004 TR_{282}	16.2	X	231.79504	253.65820	163.59126	5.24236	0.1102446	0.21963576	2.7206166	21	6 30.8	20.3
198279 2004 TB_{290}	16.8	X	34.59814	279.51974	336.69229	3.86653	0.1012654	0.22201403	2.7011525	21	7 27.7	19.9
198280 2004 TU_{293}	16.7	X	60.43687	111.29523	242.28199	1.65711	0.1701616	0.24075161	2.5591157	21	—	—
198281 2004 TW_{293}	17.0	X	121.84127	295.29802	17.42854	1.81950	0.0822406	0.24340860	2.5404585	21	—	—
198282 2004 TR_{295}	16.5	X	336.74975	312.68400	37.11641	2.48315	0.2031549	0.22612785	2.6682920	21	8 26.6	18.7
198283 2004 TM_{296}	16.2	X	12.04624	65.00229	224.70533	7.68800	0.1090444	0.22075032	2.7114514	21	8 2.8	19.5
198284 2004 TM_{297}	15.7	X	304.85419	244.18341	221.56522	27.25523	0.1874344	0.23413385	2.6071133	21	12 9.4	18.6
198285 2004 TT_{297}	15.3	X	159.13105	236.63329	261.43962	13.17176	0.0372143	0.22206630	2.7007286	21	7 22.6	19.3
198286 2004 TF_{298}	15.5	X	238.84334	192.81674	258.36844	12.47274	0.0508042	0.22521781	2.6754750	21	8 24.3	19.4
198287 2004 TK_{298}	17.4	X	204.29582	266.91227	30.50001	2.09764	0.1980522	0.25973587	2.4328468	21	1 1.9	21.4
198288 2004 TF_{299}	15.6	X	120.22481	337.83299	280.84714	17.87759	0.1286437	0.23782333	2.5800795	21	11 17.9	19.9
198289 2004 TT_{300}	15.6	X	165.47808	155.87291	303.95865	7.22112	0.1869856	0.21078924	2.7962141	21	6 18.7	20.3
198290 2004 TW_{301}	16.3	X	310.09126	2.00580	6.71976	14.16113	0.2941797	0.22382948	2.6865269	21	7 15.0	19.5
198291 2004 TO_{302}	16.6	X	266.97686	232.51859	173.96729	4.86913	0.1683937	0.22242504	2.6978239	21	7 19.9	20.4
198292 2004 TF_{307}	15.9	X	313.33790	167.05512	240.84484	13.46442	0.1366666	0.23106807	2.6301232	21	10 4.3	18.9
198293 2004 TW_{307}	16.1	X	356.18356	122.79835	316.64463	6.00521	0.1078551	0.24246271	2.5470614	21	—	—
198294 2004 TB_{308}	16.0	X	289.15503	151.53150	233.89794	5.22807	0.0489823	0.22468848	2.6796754	21	8 8.1	19.5
198295 2004 TY_{308}	16.1	X	0.60930	317.38874	344.77809	11.26418	0.1829513	0.22550744	2.6731837	21	8 9.9	18.6
198296 2004 TK_{309}	16.8	X	25.68345	47.70424	318.32839	5.72956	0.1139542	0.23792100	2.5793733	21	12 14.9	20.0
198297 2004 TR_{314}	17.0	X	204.49498	21.43253	271.38643	2.12636	0.1552134	0.25782043	2.4448816	21	—	—
198298 2004 TH_{318}	16.5	X	224.92045	135.12229	17.27425	6.67729	0.1879162	0.23063858	2.6333874	21	10 16.1	20.4
198299 2004 TE_{320}	16.7	X	67.90818	97.41736	195.46501	3.75341	0.0613815	0.23227450	2.6210081	21	10 28.5	20.2
198300 2004 TQ_{323}	16.7	X	280.38487	286.45500	53.77405	3.18419	0.1944258	0.27467548	2.3438121	21	5 3.0	19.9
198301 2004 TR_{323}	16.3	X	204.27806	351.97285	75.12926	1.64712	0.0540722	0.21355324	2.7720343	21	6 16.7	20.1
198302 2004 TW_{324}	16.5	X	260.59691	46.49652	16.33425	7.07414	0.1582115	0.22285065	2.6943878	21	8 8.0	20.3
198303 2004 TX_{324}	16.1	X	43.13808	353.82112	291.68033	1.96847	0.0797065	0.22677968	2.6631765	21	9 15.5	19.4
198304 2004 TC_{325}	16.3	X	286.23356	251.27901	210.52612	6.44516	0.1515486	0.23304085	2.6152588	21	11 5.7	19.1
198305 2004 TK_{328}	16.6	X	65.21316	278.17178	96.83951	7.90890	0.1743886	0.24567786	2.5247906	21	—	—
198306 2004 TX_{328}	15.9	X	45.33591	216.96954	114.57418	11.15073	0.1316168	0.23773586	2.5807122	21	12 1.7	19.4
198307 2004 TT_{330}	15.8	X	314.83346	318.20211	53.59596	4.64873	0.1281623	0.22437062	2.6822055	21	8 23.2	18.9
198308 2004 TQ_{332}	16.0	X	205.80335	54.52799	234.50661	1.38157	0.0552850	0.19294933	2.9660185	21	—	—
198309 2004 TW_{333}	15.9	X	253.15427	0.01741	44.81243	2.96242	0.0366750	0.21855568	2.7295726	21	7 20.7	19.6
198310 2004 TX_{333}	16.5	X	2.09036	203.57217	198.01314	1.29391	0.1878995	0.23639562	2.5904573	21	—	—
198311 2004 TS_{335}	17.0	X	287.05035	257.26320	220.18307	6.70223	0.1680955	0.23355520	2.6114178	21	11 26.6	19.7
198312 2004 TZ_{335}	16.0	X	272.78181	157.53698	216.24774	5.89032	0.0652910	0.21734331	2.7397138	21	6 29.2	19.7
198313 2004 TE_{336}	16.8	X	211.20676	180.56199	199.75703	1.05415	0.0695675	0.20831964	2.8182698	21	4 25.0	21.1
198314 2004 TN_{336}	16.4	X	5.18008	239.41155	73.49908	2.22982	0.1242535	0.22394596	2.6855952	21	8 30.0	19.2
198315 2004 TC_{339}	15.6	X	321.50276	178.47018	154.10708	14.52248	0.3035043	0.22384157	2.6864301	21	6 9.5	18.7
198316 2004 TU_{339}	17.1	X	72.68664	182.13038	171.91295	1.01398	0.0825565	0.24335058	2.5408622	21	—	—
198317 2004 TX_{339}	16.1	X	274.97805	280.09078	184.57551	3.33974	0.1606460	0.23202954	2.6228524	21	10 21.3	19.3
198318 2004 TJ_{342}	16.6	X	37.93311	66.25073	227.85431	2.23912	0.2152501	0.22836184	2.6508615	21	10 11.5	19.8
198319 2004 TW_{342}	16.5	X	269.84022	248.43226	216.55069	5.87434	0.2119885	0.22826477	2.6516129	21	10 3.5	19.8
198320 2004 TY_{346}	16.6	X	321.44393	113.32408	321.99911	2.86551	0.1624696	0.23494077	2.6011404	21	12 2.8	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198321 2004 TO_{348}	16.3	X	163.52362	95.80958	219.53578	7.56495	0.1498813	0.25056342	2.4918636	21	—	—
198322 2004 TT_{349}	16.1	X	2.51061	169.05591	181.19595	4.31490	0.2312757	0.23129480	2.6284041	21	10 31.9	18.5
198323 2004 TE_{355}	15.9	X	17.85520	341.41455	46.19636	12.54255	0.0490382	0.24069029	2.5595503	21	12 22.9	19.3
198324 2004 TG_{355}	16.7	X	180.51301	252.34698	110.43946	6.96167	0.1270647	0.26360462	2.4089847	21	2 27.1	20.3
198325 2004 TM_{356}	15.8	X	243.78044	222.06503	59.86589	13.22841	0.2091328	0.26360018	2.4090117	21	1 16.3	20.0
198326 2004 TX_{358}	16.6	X	179.37793	281.90241	313.39566	2.26660	0.1184648	0.24274335	2.5450979	21	12 19.5	20.5
198327 2004 TR_{359}	16.0	X	266.23253	165.01693	190.44178	3.56029	0.0852281	0.21630233	2.7484969	21	5 25.4	19.9
198328 2004 TC_{361}	16.3	X	185.42789	142.21307	347.94778	3.08038	0.1286989	0.22026457	2.7154363	21	8 14.8	20.4
198329 2004 TJ_{361}	16.5	X	75.67421	332.81365	336.69663	4.39997	0.1212959	0.23936720	2.5689735	21	12 5.8	20.2
198330 2004 TJ_{366}	16.6	X	246.94562	212.33530	227.91276	2.34701	0.0999264	0.22239508	2.6980662	21	8 18.5	20.4
198331 2004 TS_{366}	17.0	X	321.43827	327.99988	159.29002	2.29691	0.1238444	0.24173450	2.5521740	21	—	—
198332 2004 TZ_{367}	16.7	X	50.03789	247.41979	96.57730	1.80406	0.1798656	0.23812620	2.5778913	21	12 27.8	20.2
198333 2004 UA	15.7	X	98.94847	246.06927	34.75058	4.38298	0.0984908	0.23419245	2.6066784	21	11 22.3	19.4
198334 2004 UQ_1	16.0	X	15.37651	20.04319	37.51795	33.93529	0.3000230	0.23791656	2.5794054	21	—	—
198335 2004 UP_2	15.8	X	82.57468	249.21655	69.41793	10.48512	0.2090607	0.24262671	2.5459135	21	—	—
198336 2004 UR_3	15.7	X	83.50068	131.14154	241.49962	9.10939	0.2754080	0.24462553	2.5320262	21	—	—
198337 2004 UE_4	15.5	X	273.66716	143.35520	354.84223	25.86056	0.2364133	0.23427296	2.6060811	21	11 8.0	19.2
198338 2004 UB_5	16.1	X	292.94787	46.69741	53.97599	5.60197	0.1694178	0.23601789	2.5932204	21	11 13.6	18.6
198339 2004 UW_5	16.4	X	339.47440	49.72579	40.53724	1.03892	0.1981475	0.23873265	2.5735237	21	—	—
198340 2004 UO_6	16.4	X	68.64605	9.45872	306.66054	4.30401	0.1439262	0.23853562	2.5749406	21	12 9.1	20.1
198341 2004 UR_8	16.6	X	49.99762	10.74158	8.58868	3.15928	0.1793614	0.24140638	2.5544861	21	—	—
198342 2004 UC_9	15.1	X	39.53607	70.44896	250.91702	25.70207	0.1275332	0.23233780	2.6205320	21	11 4.9	18.7
198343 2004 VG	16.3	X	278.68971	59.75544	336.51884	10.78274	0.2003446	0.22218547	2.6997628	21	7 19.9	20.0
198344 2004 VU	15.6	X	186.85109	274.59899	174.93728	8.10566	0.0869607	0.21435630	2.7651066	21	6 25.0	19.9
198345 2004 VM_2	16.2	X	118.55748	335.48585	277.44185	3.80492	0.0527713	0.23436483	2.6054001	21	11 4.9	19.9
198346 2004 VL_3	16.2	X	90.81966	104.65258	204.82702	6.17366	0.1761727	0.23908088	2.5710241	21	12 26.4	20.3
198347 2004 VZ_4	15.8	X	249.86052	125.07399	336.18746	4.01529	0.0653946	0.22632935	2.6667080	21	9 24.4	19.3
198348 2004 VA_5	15.4	X	291.88284	179.90088	236.93720	12.33971	0.1566808	0.22642355	2.6659683	21	9 4.7	18.9
198349 2004 VD_5	15.7	X	143.19260	212.56218	38.85195	15.52362	0.0587287	0.23477643	2.6023541	21	11 29.6	19.6
198350 2004 VA_6	16.6	X	5.32962	218.11292	234.70399	3.82756	0.1414152	0.24496768	2.5296679	21	—	—
198351 2004 VD_6	15.8	X	207.53245	308.63510	216.96656	10.57530	0.1161046	0.22873647	2.6479662	21	10 21.3	19.8
198352 2004 VZ_6	16.3	X	72.17091	233.05047	76.57361	8.43702	0.1598480	0.23496086	2.6009921	21	12 6.5	20.0
198353 2004 VL_8	16.4	X	353.96374	254.51937	123.88159	3.00211	0.2208846	0.23221915	2.6214245	21	11 22.9	18.6
198354 2004 VM_8	16.3	X	63.66069	283.69743	65.89325	12.27121	0.2848783	0.24126268	2.5555004	21	—	—
198355 2004 VZ_9	15.8	X	274.79789	275.86295	192.39188	11.06814	0.1634873	0.22990781	2.6389646	21	10 25.8	18.9
198356 2004 VC_{10}	15.8	X	316.52850	278.71264	150.68837	5.45971	0.1297651	0.23219607	2.6215983	21	11 17.5	18.6
198357 2004 VG_{10}	16.3	X	286.74837	229.43903	43.85607	6.61038	0.1246819	0.26524794	2.3990246	21	2 23.6	19.7
198358 2004 VR_{10}	15.6	X	328.44244	165.61507	271.09400	13.17965	0.0742806	0.23612680	2.5924230	21	12 17.6	18.6
198359 2004 VS_{12}	15.4	X	55.61898	70.15503	317.53459	5.81526	0.1518289	0.24246694	2.5470318	21	—	—
198360 2004 VX_{12}	16.3	X	63.49060	241.85551	99.32037	4.75494	0.2649654	0.23957265	2.5675046	21	—	—
198361 2004 VF_{13}	15.7	X	349.02120	249.13853	103.98000	6.09864	0.1366928	0.22645141	2.6657497	21	9 30.7	18.5
198362 2004 VW_{13}	16.1	X	342.77269	299.31730	124.50084	8.31173	0.1594886	0.23518489	2.5993401	21	12 29.3	18.8
198363 2004 VF_{14}	15.6	X	319.11831	352.71273	56.08652	15.44284	0.0710206	0.22880828	2.6474121	21	10 28.7	18.8
198364 2004 VM_{14}	16.9	X	202.90385	125.24224	318.90674	1.84917	0.1914873	0.27304355	2.3531418	21	7 1.4	20.7
198365 2004 VJ_{15}	16.2	X	105.92151	236.67821	68.59361	8.17803	0.1652759	0.24065340	2.5598118	21	—	—
198366 2004 VZ_{16}	16.1	X	77.53297	89.23712	231.58580	13.50946	0.1376513	0.23875314	2.5733765	21	12 22.9	20.0
198367 2004 VP_{18}	16.4	X	302.51596	153.96487	273.89722	1.23822	0.0596987	0.23032516	2.6357757	21	10 25.6	19.5
198368 2004 VV_{18}	16.4	X	280.11141	340.16305	40.84927	4.16903	0.1075577	0.22037064	2.7145649	21	7 13.8	20.1
198369 2004 VR_{19}	15.5	X	61.26461	87.43725	229.78643	13.96919	0.1549569	0.23361663	2.6109599	21	12 3.2	19.2
198370 2004 VS_{19}	15.9	X	73.73935	101.35093	226.97162	2.87536	0.2437322	0.23905092	2.5712389	21	—	—
198371 2004 VQ_{20}	16.0	X	45.40524	302.99264	58.47277	6.36077	0.1198534	0.23846604	2.5754415	21	—	—
198372 2004 VE_{21}	16.5	X	24.63238	264.38121	125.69620	2.39823	0.1180881	0.23786708	2.5797631	21	—	—
198373 2004 VZ_{21}	16.5	X	344.96085	281.93355	85.35710	3.17239	0.2269216	0.22920607	2.6443482	21	10 15.7	18.5
198374 2004 VA_{22}	16.2	X	74.86650	137.78603	205.75208	3.00659	0.2058608	0.24071228	2.5593944	21	—	—
198375 2004 VG_{23}	16.8	X	307.09676	203.13165	186.47984	2.05274	0.2124734	0.22530152	2.6748122	21	8 19.6	19.6
198376 2004 VB_{24}	15.7	X	289.68011	229.46439	192.71023	13.02830	0.1659779	0.22641121	2.6660652	21	9 11.1	19.0
198377 2004 VQ_{25}	16.5	X	347.10153	11.48493	7.91045	2.82701	0.0900785	0.23061653	2.6335552	21	10 29.0	19.5
198378 2004 VP_{27}	16.0	X	299.88187	81.00107	337.92979	14.02567	0.0833860	0.23094842	2.6310315	21	10 1.7	19.4
198379 2004 VJ_{28}	16.2	X	304.85041	184.02191	281.80876	1.00683	0.1619457	0.23425936	2.6061821	21	12 13.9	18.5
198380 2004 VT_{28}	15.9	X	212.30609	170.90480	239.53152	4.01550	0.0651671	0.21166037	2.7885366	21	6 3.9	20.0
198381 2004 VB_{29}	16.2	X	148.16768	228.91284	67.24313	3.98549	0.0287669	0.24318768	2.5419968	21	—	—
198382 2004 VM_{29}	16.7	X	98.09101	97.14767	209.98348	5.90702	0.1295995	0.23860526	2.5744396	21	12 27.0	20.7
198383 2004 VR_{29}	16.5	X	103.89113	111.81197	137.64579	1.71477	0.0622873	0.22792637	2.6542368	21	10 16.4	20.1
198384 2004 VD_{30}	16.2	X	283.02619	292.81417	145.70444	1.73467	0.0822550	0.22809285	2.6529451	21	10 9.2	19.5
198385 2004 VW_{32}	16.7	X	314.16408	203.29819	191.94981	4.91200	0.0708306	0.22668938	2.6638837	21	9 27.6	19.8
198386 2004 VB_{33}	15.9	X	322.50364	252.76062	129.58626	3.64446	0.0446700	0.22591364	2.6699784	21	9 26.3	19.1
198387 2004 VL_{33}	16.6	X	213.03851	332.25618	191.13397	5.27327	0.1374327	0.22880833	2.6474118	21	10 23.6	20.4
198388 2004 VQ_{33}	16.5	X	357.91477	166.03043	172.36337	4.12075	0.1423914	0.22687657	2.6624183	21	9 23.3	19.0
198389 2004 VH_{34}	16.9	X	326.21145	347.43322	87.94164	4.65281	0.1528920	0.23453312	2.6041536	21	12 13.0	19.2
198390 2004 VW_{38}	16.3	X	156.48865	184.20027	64.80469	4.81272	0.1961607	0.23656016	2.5892559	21	12 10.6	20.7
198391 2004 VQ_{40}	16.1	X	167.94873	311.26937	203.75056	4.11860	0.0522639	0.22079644	2.7110738	21	8 26.9	20.0
198392 2004 VE_{43}	16.7	X	277.89280	26.31367	221.13461	2.09220	0.1473091	0.25672791	2.4518129	21	1 7.8	20.2
198393 2004 VE_{44}	16.7	X	279.12305	267.78593	157.87209	2.89013	0.0443407	0.22509610	2.6764394	21	9 21.2	20.2
198394 2004 VF_{44}	16.4	X	291.69806	229.56566	159.33053	2.80233	0.0953630	0.22197611	2.7014601	21	8 11.3	19.8
198395 2004 VL_{47}	16.7	X	6.96808	195.48144	178.69796	4.09455	0.1700572	0.23292609	2.6161178	21	12 4.9	19.5
198396 2004 VV_{51}	16.4	X	44.52667	163.27502	179.35794	4.44070	0.1126435	0.23444810	2.6047831	21	12 9.6	19.9
198397 2004 VG_{52}	16.1	X	338.08433	239.38984	144.26334	3.64184	0.0984445	0.22928909	2.6437099	21	10 22.1	19.1
198398 2004 VR_{52}	15.6	X	100.11872	226.80824	60.29132	12.44933	0.1660443	0.23541827	2.5976219	21	12 6.4	19.7
198399 2004 VT_{52}	16.5	X	250.29937	224.28393	181.91536	4.10540	0.1254823	0.21795487	2.7345865	21	7 5.6	20.4
198400 2004 VA_{53}	16.5	X	212.39799	349.15581	82.69509	7.54470	0.1245360	0.27300178	2.3533819	21	6 27.6	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198401 2004 VB_{53}	16.2	X	342.34999	226.59988	164.50585	2.60130	0.1221527	0.22973926	2.6402552	21	11 9.1	19.0
198402 2004 VL_{54}	15.5	X	240.69639	102.42080	350.12130	14.22728	0.1076644	0.22298791	2.6932821	21	8 29.8	19.3
198403 2004 VA_{55}	15.5	X	171.13427	215.12958	145.88674	11.51078	0.1212504	0.19875732	2.9079524	21	2 21.9	20.0
198404 2004 VW_{56}	16.6	X	294.24927	25.30682	17.45666	6.64345	0.2376301	0.22511517	2.6762882	21	8 15.1	19.7
198405 2004 VY_{56}	16.3	X	306.77125	22.28703	328.93711	3.98986	0.1247196	0.21992443	2.7182354	21	7 9.2	19.5
198406 2004 VZ_{56}	16.7	X	292.01157	64.28960	35.38500	12.84515	0.2309134	0.23073503	2.6326534	21	10 30.6	19.4
198407 2004 VG_{58}	15.5	X	124.72179	336.63674	253.15735	11.04535	0.1105434	0.22774249	2.6556653	21	10 14.1	19.7
198408 2004 VT_{59}	16.8	X	241.24232	96.72276	348.03468	4.26280	0.2426659	0.22015690	2.7163216	21	8 3.2	21.2
198409 2004 VF_{62}	16.6	X	72.47132	232.50125	138.89694	9.49858	0.1922789	0.24491022	2.5300636	21	—	—
198410 2004 VN_{62}	15.6	X	93.86750	238.70367	111.04049	15.45914	0.1585054	0.24408402	2.5357698	21	—	—
198411 2004 VB_{63}	16.6	X	71.67813	160.36325	223.49338	2.69346	0.2624905	0.24545095	2.5263464	21	—	—
198412 2004 VD_{63}	16.1	X	340.05600	322.82087	91.85573	2.26483	0.1241079	0.23310996	2.6147419	21	12 8.1	18.8
198413 2004 VP_{63}	16.7	X	193.35468	324.27146	83.55191	3.18886	0.1976485	0.26875304	2.3781202	21	5 7.5	20.5
198414 2004 VJ_{65}	16.2	X	32.72898	176.88281	149.67288	3.77551	0.0909923	0.23093159	2.6311594	21	10 30.6	19.5
198415 2004 VE_{70}	15.1	X	93.97832	98.75771	311.93280	10.09890	0.0545929	0.19228469	2.9728494	21	1 19.1	19.0
198416 2004 VU_{70}	16.0	X	237.39882	44.74704	77.44167	3.67761	0.0510691	0.22685509	2.6625863	21	10 10.9	19.6
198417 2004 VF_{71}	15.9	X	49.54778	258.13072	140.64377	9.56756	0.0563148	0.24352650	2.5396385	21	—	—
198418 2004 VH_{72}	15.8	X	332.06715	151.22933	232.03278	12.72047	0.1734500	0.22823016	2.6518809	21	10 3.2	18.5
198419 2004 VA_{73}	16.1	X	42.16320	214.76283	192.95033	13.04153	0.0908141	0.24322051	2.5417681	21	—	—
198420 2004 VL_{73}	15.9	X	330.19629	257.10847	175.57045	10.62111	0.1668991	0.23379096	2.6096619	21	12 17.7	18.6
198421 2004 VM_{77}	16.7	X	280.31741	284.18599	163.08589	4.38385	0.1027622	0.22841464	2.6504529	21	10 14.8	19.8
198422 2004 VV_{77}	15.8	X	326.83498	234.52260	156.71063	13.44925	0.1713912	0.22817700	2.6522928	21	10 12.4	18.5
198423 2004 VK_{80}	16.5	X	341.55901	228.48896	180.68560	7.60772	0.1854467	0.23328902	2.6134038	21	12 8.4	19.1
198424 2004 VL_{80}	16.0	X	286.95380	271.69012	199.01899	8.59200	0.1614357	0.23203013	2.6228480	21	11 18.4	18.9
198425 2004 VT_{81}	16.1	X	19.15898	65.89943	211.82093	10.77124	0.2370935	0.22062824	2.7124515	21	8 11.6	18.9
198426 2004 VR_{82}	15.6	X	296.75913	184.44937	249.81239	14.43119	0.0875604	0.22932029	2.6434701	21	10 19.1	19.1
198427 2004 VW_{84}	17.4	X	321.06507	116.24343	284.46937	0.74534	0.0831307	0.22751273	2.6574529	21	10 15.4	20.3
198428 2004 VX_{89}	16.0	X	310.24384	187.82269	252.14123	11.29959	0.1424954	0.23162619	2.6258965	21	11 17.3	18.7
198429 2004 VC_{90}	15.8	X	264.43917	137.24396	18.15451	6.68876	0.2314322	0.23226752	2.6210606	21	11 29.2	19.1
198430 2004 VB_{93}	15.8	X	296.17982	94.33215	266.48873	4.88065	0.0765520	0.22014051	2.7164564	21	7 12.7	19.3
198431 2004 VG_{93}	16.6	X	305.94025	69.55768	28.04263	7.90425	0.1589910	0.23409957	2.6073679	21	12 2.9	19.2
198432 2004 VL_{95}	16.1	X	34.12659	203.49710	148.36715	1.74657	0.0883491	0.23248265	2.6194434	21	12 3.5	19.3
198433 2004 VZ_{110}	16.4	X	248.41420	71.45251	43.43542	3.41534	0.0254120	0.22942006	2.6427036	21	10 18.5	19.9
198434 2004 WX	16.2	X	354.24174	271.07127	103.98153	4.94941	0.2321639	0.23151144	2.6267642	21	11 20.3	18.5
198435 2004 WN_{2}	15.3	X	103.68349	283.37385	35.08139	7.91404	0.1397772	0.24008431	2.5638554	21	—	—
198436 2004 WH_{3}	15.5	X	83.75086	204.54872	71.09826	16.39096	0.1557927	0.22925710	2.6439557	21	11 9.4	19.5
198437 2004 WV_{3}	16.2	X	198.12348	331.43405	159.88130	1.93347	0.1089072	0.22030355	2.7151160	21	8 29.4	20.3
198438 2004 WA_{6}	15.8	X	32.33613	318.56211	354.96170	4.72690	0.2834277	0.23147639	2.6270293	21	11 8.9	19.0
198439 2004 WT_{6}	15.7	X	309.09810	71.15547	47.61562	12.74559	0.1822959	0.23628943	2.5912334	21	—	—
198440 2004 WV_{6}	15.8	X	142.31553	223.84154	272.33894	4.87416	0.1984969	0.21049587	2.7988116	21	7 13.5	20.5
198441 2004 WK_{7}	15.6	X	76.66979	145.58549	340.65759	4.67654	0.0825329	0.20058842	2.8902283	21	3 31.9	19.4
198442 2004 WR_{7}	16.5	X	342.96648	291.32152	84.40504	1.65613	0.1484024	0.22967932	2.6407146	21	10 20.0	19.1
198443 2004 WC_{9}	15.3	X	172.51817	173.66838	287.42020	8.50598	0.1508820	0.21209590	2.7847179	21	6 25.9	19.7
198444 2004 WX_{10}	16.2	X	239.87221	71.28356	55.34632	5.96118	0.0701525	0.22668446	2.6639223	21	10 17.1	19.8
198445 2004 XD_{3}	15.6	X	338.57519	222.93168	113.00520	12.72846	0.2021896	0.22369304	2.6876192	21	8 8.7	18.0
198446 2004 XS_{3}	15.6	X	297.81252	283.38205	71.03223	4.65604	0.0930449	0.21708008	2.7419281	21	7 4.3	19.2
198447 2004 XB_{4}	16.0	X	347.63652	11.49461	20.48897	5.60362	0.1564920	0.23103351	2.6303855	21	11 20.4	18.7
198448 2004 XV_{4}	16.0	X	0.01244	24.56219	17.90953	3.15152	0.1916957	0.23481118	2.6020973	21	—	—
198449 2004 XM_{5}	15.7	X	354.89328	296.00262	167.99838	13.23112	0.1353936	0.24100981	2.5572875	21	—	—
198450 Scattolin	15.9	X	223.18177	125.36829	261.20051	7.93408	0.1681729	0.20895450	2.8125585	21	5 9.2	20.5
198451 2004 XX_{6}	15.8	X	181.39017	197.26450	272.04640	12.16931	0.0970713	0.27238085	2.3569570	21	7 13.9	19.3
198452 2004 XH_{8}	16.0	X	325.55638	40.00368	23.62240	6.15593	0.2345623	0.23024435	2.6363925	21	11 21.0	18.1
198453 2004 XL_{8}	15.8	X	252.95243	349.22211	77.18848	7.74870	0.0879649	0.21985466	2.7188104	21	8 13.0	19.7
198454 2004 XP_{8}	15.7	X	300.75888	17.56672	7.78563	4.58368	0.3607108	0.22327300	2.6909889	21	7 7.7	18.9
198455 2004 XU_{9}	15.5	X	26.62115	303.53758	66.97908	12.68654	0.0633964	0.23280105	2.6170545	21	12 12.9	18.8
198456 2004 XJ_{10}	15.2	X	281.97434	148.49288	249.09542	11.58508	0.0415502	0.21961299	2.7208047	21	8 12.2	19.1
198457 2004 XK_{12}	15.1	X	341.52014	266.74478	73.49926	13.33769	0.2069536	0.22244934	2.6976274	21	8 28.7	17.8
198458 2004 XN_{12}	14.9	X	308.68815	264.66720	252.87378	9.52795	0.1432784	0.18040109	3.1020106	21	—	—
198459 2004 XF_{13}	15.4	X	63.76409	21.51862	64.62777	2.86924	0.0813308	0.19053748	2.9909956	21	1 25.6	19.3
198460 2004 XA_{16}	16.2	X	49.73608	137.07247	231.88494	1.77365	0.2223524	0.23823389	2.5771143	21	—	—
198461 2004 XG_{16}	15.3	X	318.33350	247.06639	187.10236	21.56955	0.1455064	0.23098155	2.6307800	21	11 26.9	18.5
198462 2004 XU_{17}	16.2	X	346.86679	290.70799	153.96772	12.54174	0.2757752	0.23717890	2.5847508	21	—	—
198463 2004 XT_{19}	16.0	X	195.70145	345.09859	67.22850	2.88594	0.0683991	0.20716692	2.8287145	21	5 18.6	20.1
198464 2004 XP_{21}	15.1	X	56.12415	202.64554	270.24077	10.25848	0.0616585	0.19302037	2.9652908	21	2 10.2	19.1
198465 2004 XL_{22}	16.8	X	191.67078	35.53448	78.11526	3.70908	0.1234158	0.27493914	2.3423134	21	8 2.0	20.3
198466 2004 XR_{22}	16.5	X	40.77844	203.45276	185.06493	2.06083	0.1125534	0.23873062	2.5735382	21	—	—
198467 2004 XD_{24}	16.5	X	294.19513	33.62612	95.16669	5.83287	0.2150123	0.23428065	2.6060241	21	12 20.2	18.9
198468 2004 XE_{24}	16.2	X	357.57961	249.16347	127.42900	2.72211	0.1517923	0.23124636	2.6287712	21	11 19.1	18.9
198469 2004 XT_{24}	15.8	X	243.82890	148.31532	304.25964	7.56922	0.2928070	0.21803424	2.7339228	21	8 8.6	20.2
198470 2004 XW_{25}	15.7	X	35.37887	16.56231	56.10846	5.89543	0.2317439	0.23991526	2.5650596	21	—	—
198471 2004 XD_{27}	16.0	X	239.76022	136.03209	322.16389	4.30004	0.1267996	0.21926234	2.7237047	21	8 30.2	19.9
198472 2004 XG_{32}	16.1	X	260.09957	232.39025	128.53139	1.26389	0.0852727	0.21087026	2.7954978	21	5 24.9	20.1
198473 2004 XK_{33}	15.7	X	355.32573	228.96078	86.46134	5.60819	0.1083911	0.21872691	2.7281478	21	8 15.2	18.7
198474 2004 XO_{36}	16.1	X	53.54940	257.42041	92.11169	0.48736	0.2857786	0.23683752	2.5872340	21	—	—
198475 2004 XK_{37}	16.5	X	88.46649	124.73310	201.66538	2.78198	0.2104212	0.24054837	2.5605569	21	—	—
198476 2004 XE_{38}	15.9	X	275.71392	233.89864	180.44193	12.57645	0.1713622	0.22178798	2.7029875	21	8 8.7	19.7
198477 2004 XH_{38}	16.3	X	30.31984	178.98214	177.41536	14.84161	0.2680671	0.23523320	2.5989842	21	12 30.9	20.0
198478 2004 XP_{38}	15.8	X	12.46624	231.11309	212.48409	21.02707	0.1100956	0.24065654	2.5597896	21	—	—
198479 2004 XD_{39}	15.7	X	209.64286	345.62448	176.47942	13.02951	0.1021416	0.22682407	2.6628291	21	10 23.3	19.7
198480 2004 XW_{40}	16.0	X	46.99398	316.66729	29.55725	3.49825	0.3259966	0.23664592	2.5886303	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198481 2004 XV_{41}	15.4	X	306.68312	210.20835	316.08293	1.56332	0.1603522	0.17502509	3.1652098	21	—	—
198482 2004 XK_{42}	15.7	X	79.39000	138.00514	54.24528	5.19529	0.0111495	0.21137117	2.7910796	21	6 21.3	19.5
198483 2004 XU_{47}	16.2	X	188.60993	110.10279	4.47525	2.68426	0.1112001	0.21225228	2.7833499	21	7 29.5	20.5
198484 2004 XS_{48}	15.7	X	250.36145	158.88043	259.47631	9.11964	0.1542563	0.21584519	2.7523763	21	7 16.8	19.8
198485 2004 XD_{49}	15.1	X	290.90846	81.58267	295.73055	11.86085	0.1641256	0.21674572	2.7447473	21	7 14.5	18.7
198486 2004 XV_{51}	15.0	X	273.49756	232.33654	328.05793	30.93590	0.2359242	0.23031945	2.6358193	21	—	—
198487 2004 XP_{57}	15.7	X	194.90333	238.02316	267.43969	7.88482	0.1362911	0.21693791	2.7431260	21	9 7.1	20.2
198488 2004 XT_{57}	16.3	X	175.07697	206.04105	192.38922	1.61304	0.1082494	0.20012533	2.8946852	21	4 10.6	20.7
198489 2004 XD_{59}	15.0	X	312.59228	134.35417	80.07430	11.40866	0.0436237	0.18816515	3.0160828	21	2 5.2	19.3
198490 2004 XS_{59}	15.4	X	256.29198	62.49406	294.46112	7.67383	0.2106539	0.21037685	2.7998671	21	4 28.3	20.0
198491 2004 XD_{62}	16.1	X	316.16517	327.98205	84.14984	14.07893	0.2784342	0.22871840	2.6481057	21	10 14.8	18.5
198492 2004 XU_{62}	15.8	X	330.68422	232.09364	70.94733	6.13072	0.1374291	0.21380875	2.7698255	21	6 8.3	18.8
198493 2004 XD_{65}	15.9	X	222.81647	104.35286	348.27144	5.59980	0.0215481	0.21887843	2.7268887	21	8 16.8	19.5
198494 2004 XR_{66}	16.0	X	216.26255	66.39132	272.32119	5.44885	0.1281771	0.25801464	2.4436546	21	2 27.9	19.8
198495 2004 XP_{69}	15.8	X	313.81063	312.79149	55.77778	6.85911	0.0400757	0.21957114	2.7211504	21	8 27.5	19.3
198496 2004 XV_{72}	16.0	X	191.48191	25.95320	61.21669	8.54436	0.2254594	0.27279695	2.3545597	21	6 24.1	20.1
198497 2004 XA_{73}	16.5	X	344.16209	163.57604	250.03299	2.63063	0.2049694	0.23426322	2.6061534	21	12 21.8	18.9
198498 2004 XD_{73}	16.1	X	41.02351	67.17859	3.11518	0.16287	0.1795676	0.24517824	2.5282195	21	—	—
198499 2004 XJ_{73}	15.6	X	3.06960	257.22063	76.77654	14.33820	0.2437825	0.22741785	2.6581921	21	10 16.8	18.2
198500 2004 XN_{73}	15.6	X	250.75122	249.30425	186.18443	24.13952	0.3021897	0.21939884	2.7225749	21	7 20.9	20.5
198501 2004 XN_{74}	15.8	X	15.84085	156.77526	257.43066	3.26690	0.2266908	0.23563686	2.5960152	21	—	—
198502 2004 XP_{76}	14.9	X	2.51437	237.06567	257.19577	14.31553	0.0625638	0.18616200	3.0376800	21	—	—
198503 2004 XC_{77}	16.5	X	255.10364	186.11578	256.81281	1.76615	0.1684146	0.22140584	2.7060968	21	8 22.7	20.4
198504 2004 XG_{77}	15.9	X	342.10611	285.12351	84.72593	5.15360	0.1472883	0.22741087	2.6582464	21	10 11.4	18.6
198505 2004 XP_{77}	15.4	X	353.14921	48.20586	260.52514	7.24924	0.0739977	0.21727273	2.7403071	21	7 28.3	18.7
198506 2004 XG_{78}	15.5	X	53.02656	164.96000	290.27988	3.85871	0.0908934	0.18963203	3.0005089	21	1 21.3	19.2
198507 2004 XK_{81}	15.2	X	159.91853	271.47638	262.05132	12.49474	0.1315751	0.21605796	2.7505690	21	9 5.8	19.8
198508 2004 XY_{81}	15.6	X	318.47898	339.64806	98.12515	16.16202	0.0664410	0.22897238	2.6461471	21	12 4.4	18.9
198509 2004 XL_{82}	15.9	X	353.32417	105.27896	336.55162	2.61554	0.1106458	0.23835126	2.5762683	21	—	—
198510 2004 XZ_{82}	15.8	X	268.60923	265.73294	73.20338	3.00033	0.0392844	0.20657684	2.8340987	21	5 13.5	19.7
198511 2004 XK_{84}	15.6	X	43.55846	327.79834	246.93849	7.09609	0.0628388	0.20730631	2.8274464	21	6 8.4	19.1
198512 2004 XF_{85}	16.4	X	302.29839	188.55983	278.72998	1.24579	0.0984866	0.23016479	2.6370000	21	12 14.7	19.2
198513 2004 XK_{87}	16.9	X	8.68796	266.59121	193.82713	2.58608	0.1123198	0.24443368	2.5333509	21	—	—
198514 2004 XW_{87}	16.6	X	174.25507	12.18041	79.70149	3.93784	0.1395236	0.26629465	2.3927340	21	6 14.4	20.3
198515 2004 XY_{88}	15.6	X	336.09980	78.71279	273.35724	3.99161	0.0784236	0.21840539	2.7308247	21	8 30.5	18.9
198516 2004 XC_{89}	16.5	X	7.86025	33.31718	11.08606	4.27180	0.2126770	0.23577512	2.5950002	21	—	—
198517 2004 XG_{92}	16.0	X	239.79729	107.95068	58.17586	15.47554	0.0551156	0.23206920	2.6225537	21	12 6.6	19.5
198518 2004 XG_{96}	15.8	X	319.54062	70.37319	295.54181	8.21255	0.1891207	0.21945842	2.7220821	21	8 10.6	18.7
198519 2004 XY_{96}	16.2	X	134.24645	140.33121	68.34583	5.77408	0.0515574	0.21739565	2.7392740	21	9 29.9	20.2
198520 2004 XZ_{96}	16.2	X	12.92079	335.78990	58.73745	4.44079	0.1260168	0.23150962	2.6267779	21	—	—
198521 2004 XX_{97}	15.7	X	153.08164	124.32684	297.41346	10.93827	0.0359103	0.19745730	2.9207020	21	4 4.7	20.2
198522 2004 XF_{98}	15.1	X	136.91026	39.62540	294.93978	9.12505	0.0631586	0.18078692	3.0975956	21	—	—
198523 2004 XX_{100}	16.5	X	1.28223	337.61494	21.12598	2.29313	0.1037357	0.22645581	2.6657152	21	10 24.6	19.4
198524 2004 XN_{101}	16.0	X	282.94532	66.66238	273.76509	3.28085	0.0773642	0.20997597	2.8034295	21	5 27.6	19.7
198525 2004 XJ_{103}	14.9	X	48.94078	151.90122	319.08978	12.46914	0.3214304	0.18295674	3.0730558	21	2 26.7	17.6
198526 2004 XO_{103}	15.9	X	189.49469	265.38818	212.96066	4.15352	0.0506784	0.21719720	2.7409423	21	8 4.2	19.8
198527 2004 XA_{104}	15.6	X	62.87306	113.57190	49.92831	4.83083	0.0396445	0.19925460	2.9031121	21	4 26.9	19.3
198528 2004 XJ_{105}	16.1	X	46.68188	334.98035	27.54291	5.81110	0.2201885	0.23853783	2.5749247	21	—	—
198529 2004 XY_{105}	15.6	X	295.26103	122.02302	277.54064	8.39730	0.0609638	0.22195888	2.7015999	21	9 1.2	19.3
198530 2004 XJ_{106}	16.4	X	325.23101	38.37567	67.21299	13.75538	0.2315921	0.23518299	2.5993541	21	—	—
198531 2004 XM_{106}	16.9	X	182.31465	104.23721	316.48476	4.10922	0.1817121	0.26580836	2.3956514	21	5 11.9	20.8
198532 2004 XS_{106}	16.0	X	193.00609	153.78035	21.71997	2.99335	0.0518792	0.22547995	2.6734010	21	10 23.2	19.6
198533 2004 XU_{106}	16.1	X	338.56894	70.85121	24.35536	4.15007	0.1353148	0.23650055	2.5896910	21	—	—
198534 2004 XV_{107}	15.1	X	28.19991	268.03311	78.29978	13.91601	0.2403867	0.23014798	2.6371283	21	12 10.6	18.4
198535 2004 XB_{109}	15.3	X	316.68594	106.95837	269.13213	13.25870	0.0970658	0.22368924	2.6876496	21	8 25.8	18.8
198536 2004 XW_{110}	15.7	X	73.69617	281.27989	55.83748	17.52708	0.3303708	0.24060059	2.5601864	21	—	—
198537 2004 XR_{111}	16.5	X	324.79493	75.65359	35.39749	4.36264	0.1842046	0.23367327	2.6105380	21	—	—
198538 2004 XT_{119}	16.0	X	294.30922	81.49323	290.57850	3.37713	0.0908576	0.21359123	2.7717056	21	7 23.5	19.6
198539 2004 XJ_{121}	16.0	X	183.51494	28.36752	95.06884	3.21506	0.1653891	0.21075187	2.7965447	21	8 3.4	20.6
198540 2004 XK_{122}	15.8	X	249.84875	256.43393	123.77653	6.48943	0.1716775	0.21438036	2.7648998	21	5 29.1	20.1
198541 2004 XD_{123}	16.0	X	15.57659	242.81467	123.28672	1.49652	0.1210651	0.23148927	2.6269318	21	11 30.2	19.1
198542 2004 XB_{124}	15.2	X	46.22162	195.88950	256.11213	9.10166	0.1111131	0.18660327	3.0328892	21	1 7.7	18.9
198543 2004 XG_{126}	15.5	X	289.61582	208.87316	269.88584	13.65221	0.1699255	0.22843815	2.6502711	21	11 30.6	18.5
198544 2004 XO_{126}	15.8	X	285.36662	252.72996	113.51226	3.52820	0.1013100	0.21419314	2.7665106	21	7 1.1	19.4
198545 2004 XR_{131}	15.6	X	188.18055	229.43546	311.38837	5.65242	0.0559195	0.22566072	2.6719730	21	10 21.5	19.6
198546 2004 XS_{131}	15.2	X	296.97415	285.88946	54.66509	9.91178	0.0813462	0.21263208	2.7800346	21	6 14.9	19.0
198547 2004 XZ_{131}	16.0	X	338.80028	74.45506	338.86860	2.86958	0.2457340	0.23127644	2.6285432	21	12 11.7	18.1
198548 2004 XB_{132}	16.0	X	238.09200	102.46734	288.74188	11.93702	0.2064573	0.21193410	2.7861350	21	5 25.9	20.8
198549 2004 XB_{133}	16.0	X	277.62550	220.17366	249.15897	2.89049	0.1850974	0.22608171	2.6686550	21	10 25.3	19.1
198550 2004 XL_{133}	15.9	X	260.61242	100.38889	347.41922	5.05037	0.1109077	0.22431589	2.6826418	21	9 14.4	19.3
198551 2004 XN_{133}	15.8	X	83.46046	336.35705	340.91515	5.31919	0.1517554	0.23680039	2.5875044	21	12 27.1	19.8
198552 2004 XP_{134}	16.2	X	314.83267	69.41819	28.25308	6.26078	0.0779564	0.23326342	2.6135950	21	12 23.5	19.3
198553 2004 XP_{136}	15.8	X	279.53423	359.57145	70.28360	16.62815	0.1699503	0.22289504	2.6940301	21	9 17.8	19.6
198554 2004 XV_{136}	16.3	X	216.35401	129.80529	356.41913	3.63794	0.2084033	0.21827806	2.7318865	21	9 3.4	20.6
198555 2004 XU_{144}	15.8	X	5.79127	240.39354	182.21761	4.78087	0.2395605	0.23549528	2.5970556	21	—	—
198556 2004 XE_{145}	15.3	X	274.67694	299.90557	107.40924	10.26175	0.2246372	0.22023438	2.7156845	21	7 23.7	19.1
198557 2004 XB_{146}	15.5	X	59.35661	72.18531	250.66474	13.69632	0.1278453	0.23368337	2.6104628	21	12 4.3	18.9
198558 2004 XE_{148}	15.5	X	30.20761	252.97683	101.05914	6.78560	0.3917525	0.23233580	2.6205470	21	—	—
198559 2004 XF_{148}	15.5	X	202.60942	9.48247	126.60884	14.67923	0.1361228	0.21353522	2.7721903	21	9 10.6	20.0
198560 2004 XA_{149}	16.4	X	245.12072	67.69665	83.01432	2.98885	0.1021658	0.23053562	2.6341713	21	11 18.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198561 2004 XX_{151}	16.2	X	6.73438	291.55525	344.41524	3.74876	0.0259420	0.21266653	2.7797343	21	7 5.7	19.7
198562 2004 XQ_{153}	16.5	X	272.23579	41.75278	280.51030	1.02984	0.0602298	0.20421649	2.8558946	21	4 22.8	20.5
198563 2004 XY_{155}	16.9	X	272.56666	68.66447	331.32174	2.59035	0.1805313	0.21930365	2.7233626	21	7 17.7	20.5
198564 2004 XB_{158}	16.1	X	271.20208	120.46707	276.68904	0.54014	0.0904741	0.21478651	2.7614131	21	7 25.3	19.6
198565 2004 XU_{161}	16.4	X	274.54629	103.06232	14.15469	2.87675	0.0671621	0.22984831	2.6394200	21	11 18.5	19.7
198566 2004 XB_{162}	15.5	X	91.42051	323.31924	18.56037	12.20199	0.2192082	0.24243932	2.5472252	21	—	—
198567 2004 XK_{162}	15.9	X	246.99098	120.41298	316.92957	8.18726	0.1510668	0.21559379	2.7545155	21	8 8.9	19.9
198568 2004 XF_{164}	15.4	X	278.30623	245.72009	204.02211	21.45595	0.0425574	0.22613257	2.6682548	21	10 22.4	18.9
198569 2004 XE_{168}	16.1	X	93.78915	47.91383	126.92279	3.60765	0.1696302	0.20305316	2.8667922	21	7 10.7	20.2
198570 2004 XW_{171}	15.6	X	98.94051	26.25688	13.25242	2.32994	0.0708552	0.18947820	3.0021327	21	1 14.3	19.7
198571 2004 XP_{172}	16.2	X	344.38918	351.45259	35.33195	2.60103	0.1016560	0.23014220	2.6371725	21	11 4.7	19.0
198572 2004 XA_{177}	15.8	X	8.32222	194.08406	68.59253	6.06324	0.0565948	0.20631509	2.8364952	21	6 19.7	19.3
198573 2004 XX_{177}	15.8	X	268.18852	115.87894	53.67953	14.36622	0.1070311	0.24031754	2.5621964	21	—	—
198574 2004 XK_{182}	16.4	X	295.26879	104.72363	344.73139	12.62281	0.2374924	0.23064690	2.6333241	21	10 15.3	19.2
198575 2004 YM	15.1	X	308.92183	41.58030	31.86697	29.43543	0.1879584	0.22754215	2.6572238	21	10 29.4	17.7
198576 2004 YU_{3}	16.4	X	84.97005	305.76527	97.79933	2.32331	0.1241330	0.24352306	2.5396624	21	—	—
198577 2004 YG_{4}	16.1	X	127.73629	79.39979	279.35933	3.70881	0.1996185	0.24532414	2.5272170	21	1 5.3	19.5
198578 2004 YX_{7}	16.1	X	62.17718	78.27406	229.95105	7.96040	0.0939331	0.23027761	2.6361386	21	11 13.9	19.5
198579 2004 YR_{11}	15.7	X	114.62638	52.18088	91.51080	3.36474	0.1190929	0.20253950	2.8716372	21	6 18.2	19.8
198580 2004 YV_{11}	15.6	X	63.48747	136.92291	96.73267	4.80580	0.0419132	0.20903709	2.8118176	21	7 30.9	19.3
198581 2004 YR_{12}	15.9	X	294.31197	289.56494	105.89759	6.42898	0.0332063	0.21587408	2.7521306	21	9 4.6	19.5
198582 2004 YT_{13}	15.2	X	178.19670	74.86324	289.14041	9.37901	0.1073175	0.19292898	2.9662271	21	2 27.8	19.9
198583 2004 YQ_{20}	15.4	X	329.19204	53.96724	120.00784	6.07345	0.0905110	0.18160682	3.0882654	21	—	—
198584 2004 YQ_{21}	15.1	X	306.56970	46.06161	121.85060	10.22460	0.0180510	0.17745270	3.1362762	21	—	—
198585 2004 YR_{29}	16.2	X	334.13975	88.42315	352.88608	6.99108	0.1918070	0.23150454	2.6268163	21	—	—
198586 2004 YQ_{31}	15.7	X	48.11894	234.97979	166.34585	9.66450	0.0917259	0.24189032	2.5510779	21	—	—
198587 2004 YD_{32}	15.7	X	348.37207	18.09810	58.16710	15.35111	0.0941578	0.23337024	2.6127974	21	—	—
198588 2004 YP_{32}	15.7	X	19.58094	327.69378	67.36367	5.55347	0.2702024	0.23394396	2.6085239	21	—	—
198589 2004 YQ_{33}	16.2	X	258.51928	304.77426	135.09140	12.50062	0.2638068	0.21673860	2.7448074	21	8 10.9	20.3
198590 2004 YV_{34}	15.8	X	79.59360	146.44649	295.97122	2.54930	0.1272914	0.18739525	3.0243380	21	2 17.3	19.6
198591 2004 YB_{35}	16.1	X	329.13947	233.66390	204.21824	16.03487	0.1778992	0.23339671	2.6125998	21	12 21.7	19.0
198592 Antbernal	15.4	X	310.68949	211.46259	117.57814	7.17883	0.0581312	0.20854491	2.8162399	21	6 23.6	19.1
198593 2005 AK_{1}	15.1	X	122.43817	250.93335	98.48094	11.80314	0.0675086	0.18090293	3.0962711	21	—	—
198594 2005 AR_{1}	15.6	X	9.06251	266.54059	138.64213	6.24414	0.2848342	0.23247295	2.6195162	21	—	—
198595 2005 AD_{5}	15.0	X	94.01146	264.56669	88.58282	10.31358	0.1014184	0.17673871	3.1447172	21	—	—
198596 2005 AR_{5}	15.8	X	154.04051	83.49360	71.46944	8.61988	0.1592343	0.20926024	2.8098183	21	8 18.5	20.5
198597 2005 AU_{5}	15.3	X	320.77567	159.66384	333.30907	6.85041	0.1204791	0.17554011	3.1590158	21	—	—
198598 2005 AD_{6}	15.5	X	317.18153	138.34572	343.87998	5.85342	0.1752206	0.17346425	3.1841687	21	—	—
198599 2005 AE_{7}	16.1	X	252.80226	84.88309	21.93553	4.60544	0.1511097	0.21950317	2.7217121	21	9 24.3	19.7
198600 2005 AJ_{7}	15.6	X	64.65805	310.91744	59.95572	5.09271	0.2861172	0.23719400	2.5846411	21	—	—
198601 2005 AE_{11}	16.0	X	346.83393	158.29965	268.42192	4.69319	0.2135779	0.23205965	2.6226256	21	—	—
198602 2005 AG_{11}	15.8	X	253.53897	241.44503	113.99385	5.94377	0.2355096	0.26516342	2.3995344	21	4 23.9	19.7
198603 2005 AY_{15}	16.2	X	333.40998	308.76193	115.90615	22.82844	0.2237495	0.22935145	2.6432306	21	12 13.8	18.2
198604 2005 AT_{18}	15.6	X	343.32354	49.62651	101.83036	3.53117	0.0935844	0.18244053	3.0788498	21	—	—
198605 2005 AM_{19}	15.8	X	215.67900	255.15238	113.41433	2.94913	0.0968713	0.19883611	2.9071842	21	4 16.2	20.2
198606 2005 AF_{22}	16.7	X	158.97064	179.12420	317.86139	6.29626	0.2898296	0.26883185	2.3776554	21	8 1.8	21.0
198607 2005 AL_{22}	14.5	X	292.97600	177.46729	299.27247	16.59951	0.1263444	0.17161456	3.2070074	21	11 23.6	18.9
198608 2005 AH_{23}	15.9	X	33.78576	341.03428	80.73586	4.13408	0.2252660	0.23713726	2.5850534	21	—	—
198609 2005 AJ_{23}	15.9	X	224.02395	318.58344	119.57243	12.47553	0.1976069	0.20970330	2.8058591	21	7 12.4	20.5
198610 2005 AN_{23}	15.4	X	46.61659	112.92986	336.31845	5.69866	0.1182517	0.18119245	3.0929720	21	1 8.8	19.1
198611 2005 AJ_{24}	16.3	X	172.43328	159.52808	277.59738	6.31503	0.2397430	0.20318973	2.8655075	21	5 28.5	21.3
198612 2005 AK_{24}	16.0	X	30.49061	199.46549	238.74299	3.81327	0.2354728	0.23947811	2.5681803	21	—	—
198613 2005 AU_{24}	15.7	X	214.37064	310.04051	169.19052	8.22315	0.1470476	0.21385523	2.7694241	21	8 26.9	20.0
198614 2005 AO_{26}	15.7	X	239.46101	338.27428	129.48691	12.07349	0.1529730	0.21824164	2.7321905	21	9 11.6	19.8
198615 2005 AY_{26}	15.6	X	93.90608	195.39890	276.33082	7.29039	0.0500593	0.19195473	2.9762552	21	3 30.5	19.8
198616 Lucabracali	15.5	X	327.76463	228.62019	119.29196	7.10702	0.0545442	0.21418853	2.7665503	21	8 15.7	18.9
198617 2005 AU_{31}	15.7	X	181.24291	8.58713	111.37796	15.05195	0.2028497	0.20984378	2.8046068	21	7 27.5	20.4
198618 2005 AA_{33}	15.9	X	306.55037	116.99143	297.28024	14.55915	0.1905905	0.22503871	2.6768943	21	9 18.5	19.1
198619 2005 AD_{33}	15.9	X	103.19159	296.00849	106.99837	10.68712	0.0569480	0.24429705	2.5342954	21	1 9.2	18.9
198620 2005 AJ_{36}	16.0	X	179.60444	277.82599	242.67119	4.51187	0.0096693	0.21517120	2.7581208	21	9 16.9	19.8
198621 2005 AJ_{41}	16.3	X	72.15403	61.44144	118.01501	3.34653	0.1278513	0.26000776	2.4311505	21	6 10.6	19.1
198622 2005 AU_{41}	16.1	X	317.28162	2.28038	62.77581	3.18935	0.0932436	0.22495432	2.6775638	21	11 11.3	19.3
198623 2005 AB_{42}	15.9	X	5.33720	62.11175	345.62530	11.49263	0.2759448	0.23390213	2.6088349	21	—	—
198624 2005 AE_{42}	15.5	X	69.73721	38.21381	2.32308	13.16384	0.1641251	0.24136684	2.5547652	21	—	—
198625 2005 AA_{46}	15.7	X	160.61098	68.78170	42.33265	12.41471	0.0726627	0.20467939	2.8515871	21	6 23.1	20.1
198626 2005 AQ_{46}	15.8	X	97.35692	329.00296	271.85237	3.68066	0.1015231	0.21587424	2.7521293	21	9 28.1	19.8
198627 2005 AE_{47}	15.7	X	229.26603	338.34594	115.53364	10.22444	0.1881740	0.21173139	2.7879130	21	8 7.9	20.1
198628 2005 AH_{47}	15.8	X	333.97488	337.65044	224.25990	2.78085	0.1081937	0.18737636	3.0245412	21	2 4.9	19.9
198629 2005 AM_{50}	16.1	X	273.56409	224.88024	190.00694	4.78773	0.1554892	0.21697343	2.7428266	21	8 9.9	19.8
198630 2005 AR_{51}	16.1	X	332.25698	176.71517	19.15874	4.61922	0.0881705	0.18470470	3.0536371	21	2 1.1	20.2
198631 2005 AW_{51}	16.0	X	122.03474	107.65472	359.38886	4.21977	0.0452406	0.19723380	2.9229080	21	4 30.3	20.1
198632 2005 AQ_{52}	15.4	X	209.34625	228.04096	98.72114	9.36906	0.0814001	0.18845849	3.0129522	21	2 21.5	20.1
198633 2005 AG_{54}	15.5	X	56.44378	170.70144	41.81384	2.89123	0.1270639	0.19892983	2.9062710	21	7 4.2	19.2
198634 Burgaymarta	15.7	X	247.17268	340.87744	311.46865	8.89229	0.0587649	0.18900093	3.0071846	21	2 16.8	20.1
198635 2005 AT_{54}	16.0	X	262.18866	81.02622	358.42720	12.37639	0.1392940	0.21938245	2.7227105	21	9 3.7	19.7
198636 2005 AM_{57}	15.5	X	341.37548	313.38897	191.29896	6.48312	0.1199424	0.17843716	3.1247301	21	—	—
198637 2005 AN_{57}	15.7	X	267.80257	37.95745	18.70245	12.44585	0.1482227	0.21577113	2.7530060	21	8 13.0	19.7
198638 2005 AL_{60}	15.8	X	176.98272	232.31048	37.23596	3.75168	0.0382239	0.17210569	3.2009033	21	—	—
198639 2005 AU_{60}	15.3	X	303.89113	277.30028	311.50498	8.86793	0.0360868	0.18667294	3.0321345	21	2 9.6	19.5
198640 2005 AC_{62}	16.2	X	146.30640	91.51666	349.58861	3.03796	0.1606884	0.19826155	2.9127981	21	5 6.9	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198641 2005 AD_{65}	16.5	X	176.73591	273.37394	155.88899	2.22941	0.0410762	0.20092847	2.8869665	21	5 19.1	20.6
198642 2005 AY_{65}	16.0	X	44.48567	205.06364	246.71962	1.96615	0.0378619	0.18246336	3.0785929	21	1 4.3	20.2
198643 2005 AO_{71}	15.9	X	184.01271	236.67439	206.35896	1.47848	0.0367164	0.20403078	2.8576273	21	6 13.9	20.1
198644 2005 AA_{76}	15.4	X	135.82400	293.24371	232.86914	11.95658	0.1674131	0.20516977	2.8470415	21	8 7.5	20.2
198645 2005 AJ_{76}	15.6	X	307.17562	217.41301	358.88018	4.60198	0.1098850	0.18289295	3.0737703	21	1 21.9	19.9
198646 2005 AV_{78}	15.5	X	189.08100	297.99768	44.25318	2.97833	0.2219013	0.18794515	3.0184360	21	2 21.6	20.7
198647 2005 AS_{79}	15.5	X	164.43648	293.57115	117.28790	13.06223	0.0523044	0.19460504	2.9491713	21	4 18.1	20.1
198648 2005 AK_{80}	16.1	X	307.63076	202.81015	72.25299	3.32981	0.0195974	0.19475658	2.9476412	21	4 16.1	20.0
198649 2005 BY_{3}	15.4	X	176.01288	248.39117	125.14757	10.66335	0.0577310	0.19335496	2.9618689	21	3 13.8	19.9
198650 2005 BR_{4}	16.2	X	272.52314	57.97627	54.97203	3.38721	0.0310225	0.22479476	2.6788306	21	11 14.8	19.6
198651 2005 BR_{8}	15.1	X	156.08064	31.11816	320.90257	14.35731	0.0412015	0.18458218	3.0549882	21	1 23.6	19.6
198652 2005 BS_{9}	15.0	X	11.62668	148.40284	301.28316	14.54274	0.0262418	0.17531669	3.1616991	21	—	—
198653 2005 BY_{9}	15.9	X	169.71743	112.30166	332.61530	5.35693	0.0996984	0.20343121	2.8632394	21	5 31.4	20.4
198654 2005 BL_{10}	14.9	X	152.65315	248.83730	89.73579	11.07823	0.0650834	0.18076473	3.0978491	21	1 5.2	19.5
198655 2005 BV_{10}	15.7	X	269.88749	293.63493	97.56805	10.08742	0.2190263	0.21383524	2.7695967	21	6 26.9	19.6
198656 2005 BH_{13}	15.8	X	172.30143	3.33839	88.60176	3.23763	0.0247782	0.20391996	2.8586625	21	6 10.9	19.8
198657 2005 BF_{16}	15.8	X	182.45694	148.03428	334.34399	3.67560	0.0146986	0.21212894	2.7844287	21	8 3.8	19.7
198658 2005 BT_{16}	15.5	X	135.81380	29.04467	63.65038	7.14665	0.0399202	0.19878897	2.9076437	21	4 30.9	19.6
198659 2005 BH_{18}	15.4	X	314.28371	295.51923	340.26266	9.62306	0.0530724	0.19794700	2.9158831	21	4 15.4	19.6
198660 2005 BW_{18}	15.7	X	189.82819	209.03395	122.94743	3.05383	0.0364080	0.18587376	3.0408196	21	2 4.1	20.2
198661 2005 BZ_{18}	15.8	X	223.66999	39.22902	53.31480	5.27774	0.0940341	0.21259306	2.7803747	21	8 10.5	19.9
198662 2005 BB_{20}	15.1	X	87.13989	61.55415	324.59838	15.45155	0.1027022	0.17914636	3.1164779	21	—	—
198663 2005 BA_{22}	15.8	X	298.87787	151.87560	80.30279	1.59228	0.1297114	0.18378977	3.0637629	21	1 27.6	20.0
198664 2005 BE_{23}	16.2	X	68.94458	110.13294	49.21754	2.61309	0.0483724	0.19513989	2.9437799	21	4 30.9	20.1
198665 2005 BK_{23}	15.7	X	5.69805	122.17527	323.08773	14.39390	0.1043814	0.17420088	3.1751859	21	—	—
198666 2005 BN_{23}	15.4	X	49.51681	12.91067	16.20133	3.58841	0.0435140	0.17119590	3.2122338	21	—	—
198667 2005 BQ_{24}	15.4	X	270.15783	260.75304	136.00939	13.32938	0.3483132	0.21450641	2.7638165	21	6 19.5	20.0
198668 2005 BV_{25}	16.5	X	214.64962	213.92215	247.65393	1.99746	0.1568494	0.21063189	2.7976065	21	8 4.3	20.8
198669 2005 BA_{26}	15.2	X	221.02855	355.82673	311.81639	11.45404	0.1755638	0.24359511	2.5391616	21	1 29.9	19.3
198670 2005 BJ_{28}	16.6	X	135.05829	130.72488	325.28756	5.61650	0.1910788	0.19835205	2.9119120	21	5 16.3	21.3
198671 2005 BK_{28}	15.7	X	322.75980	235.23998	330.63318	3.67124	0.1048496	0.18352486	3.0667105	21	1 28.7	19.7
198672 2005 BJ_{42}	15.7	X	222.98855	138.75053	117.49587	2.43137	0.1419792	0.17596960	3.1538736	21	—	—
198673 2005 BG_{44}	14.6	X	22.05747	258.48929	178.95958	22.40218	0.0756602	0.17666459	3.1455967	21	—	—
198674 2005 CU_{1}	15.1	X	246.44378	281.64088	312.88144	8.32510	0.0444033	0.17759474	3.1346038	21	—	—
198675 2005 CY_{2}	16.3	X	264.03315	305.96219	126.61761	4.43269	0.1788773	0.21640209	2.7476522	21	8 19.7	20.1
198676 2005 CW_{4}	16.4	X	89.04001	126.99477	356.39588	5.16726	0.2058671	0.19337941	2.9616193	21	5 3.1	20.5
198677 2005 CE_{5}	14.7	X	333.28146	9.66778	145.07375	11.39381	0.1722311	0.17607469	3.1526186	21	—	—
198678 2005 CN_{5}	15.7	X	195.20878	304.04911	135.89745	6.81306	0.0454636	0.20120208	2.8843486	21	6 23.4	20.0
198679 2005 CM_{6}	14.9	X	262.52650	257.82745	325.86543	8.40646	0.0488379	0.17473857	3.1686690	21	—	—
198680 2005 CN_{6}	14.9	X	288.33752	230.98219	328.40498	11.00007	0.0303804	0.17538298	3.1609024	21	—	—
198681 2005 CC_{8}	16.0	X	206.86015	86.93007	42.61940	5.18361	0.1038704	0.21453191	2.7635974	21	9 7.9	20.2
198682 2005 CL_{8}	16.3	X	113.67330	294.31481	82.30640	3.15044	0.2217116	0.24407364	2.5358417	21	1 14.5	19.5
198683 2005 CC_{10}	15.9	X	35.67641	50.66282	28.09603	4.03020	0.0564797	0.17562367	3.1580138	21	—	—
198684 2005 CY_{11}	15.7	X	250.44692	161.45238	112.38930	9.72278	0.0704175	0.24249731	2.5468191	21	1 20.7	19.3
198685 2005 CH_{12}	15.9	X	245.33087	343.65911	83.07071	5.54379	0.1930953	0.21213666	2.7843612	21	7 19.9	20.2
198686 2005 CY_{12}	16.1	X	222.89859	344.28776	109.09761	5.48007	0.0227770	0.20992848	2.8038524	21	8 17.3	19.9
198687 2005 CH_{15}	16.6	X	35.14806	349.86513	105.08717	2.86766	0.0605735	0.24146623	2.5540640	21	—	—
198688 2005 CJ_{18}	16.3	X	182.78099	218.70499	247.46875	1.34117	0.0427165	0.20605623	2.8388703	21	7 12.4	20.4
198689 2005 CO_{19}	16.3	X	199.89998	338.03845	175.45226	1.95422	0.1645694	0.21558900	2.7545563	21	9 24.3	20.5
198690 2005 CX_{19}	15.4	X	32.25727	20.80689	131.98007	6.85849	0.0140441	0.18599325	3.0395171	21	3 4.4	19.6
198691 2005 CH_{20}	15.4	X	351.57670	39.92533	126.12490	7.77862	0.0581510	0.18234490	3.0799262	21	1 23.7	19.5
198692 2005 CT_{20}	15.6	X	3.63551	220.30298	311.54468	8.48445	0.0966423	0.18447309	3.0561925	21	2 12.4	19.5
198693 2005 CA_{22}	15.8	X	176.97477	312.66599	125.93292	8.52342	0.0246539	0.20032779	2.8927345	21	6 1.1	20.0
198694 2005 CR_{22}	14.6	X	204.24439	282.21072	338.37066	22.15963	0.0912506	0.17291318	3.1909303	21	—	—
198695 2005 CX_{22}	15.5	X	187.21254	354.89498	110.18761	10.41126	0.0900936	0.20617820	2.8377506	21	7 15.6	19.6
198696 2005 CT_{23}	14.7	X	336.39001	181.71743	290.12174	14.19812	0.0409553	0.17232730	3.1981586	21	—	—
198697 2005 CT_{24}	15.7	X	50.56385	305.83674	177.84543	10.99513	0.1804203	0.18771902	3.0208595	21	3 2.3	19.1
198698 2005 CU_{24}	15.8	X	128.85763	290.75523	230.23015	13.94578	0.0913318	0.20437144	2.8544509	21	7 19.6	20.3
198699 2005 CC_{25}	15.8	X	212.59379	51.09754	71.77221	13.96488	0.1187787	0.21184057	2.7869550	21	9 9.3	20.3
198700 Nataliegrünewald	15.9	X	182.09850	49.97018	359.25503	13.07810	0.2236408	0.20221802	2.8746798	21	4 28.2	21.0
198701 2005 CC_{26}	15.4	X	259.95468	283.87425	139.76448	12.84212	0.1189125	0.21502852	2.7593408	21	8 10.7	19.2
198702 2005 CE_{26}	16.4	X	268.18265	272.62239	321.81318	1.19263	0.1532696	0.23916903	2.5703924	21	—	—
198703 2005 CF_{26}	15.6	X	290.26709	31.03060	133.72845	2.03310	0.1319545	0.17280051	3.1923172	21	—	—
198704 2005 CB_{38}	15.4	X	19.23696	13.15607	122.49117	5.71910	0.1028458	0.18126479	3.0921490	21	1 23.0	19.2
198705 2005 CK_{43}	16.0	X	273.22659	295.90799	137.65382	4.12307	0.1786294	0.21747230	2.7386304	21	9 2.3	19.7
198706 2005 CA_{47}	15.6	X	40.08090	317.14550	142.84020	2.64119	0.0599948	0.17971363	3.1099163	21	1 9.6	19.6
198707 2005 CF_{48}	15.6	X	1.62005	173.10155	347.32901	4.88040	0.1171683	0.18164919	3.0877851	21	1 27.1	19.3
198708 2005 CY_{48}	15.6	X	43.39360	114.98403	343.41291	12.54660	0.2536738	0.18130164	3.0917300	21	1 25.8	18.7
198709 2005 CC_{49}	15.4	X	58.72451	283.03118	164.14566	16.68064	0.2464019	0.18218955	3.0816766	21	2 5.8	18.7
198710 2005 CN_{49}	15.1	X	335.41206	9.23287	158.27738	6.34734	0.1191336	0.17870518	3.1216051	21	—	—
198711 2005 CM_{50}	15.3	X	113.51036	95.86849	323.24478	10.34848	0.0633238	0.18546100	3.0453297	21	2 23.1	19.7
198712 2005 CS_{51}	14.8	X	319.34375	165.57330	334.11022	11.47404	0.0825191	0.17209507	3.2010351	21	—	—
198713 2005 CA_{54}	15.3	X	334.80055	111.32156	7.39533	5.32928	0.0318766	0.17146190	3.2089107	21	—	—
198714 2005 CT_{56}	15.8	X	101.50387	298.62339	105.29829	2.97655	0.0957696	0.18324487	3.0698335	21	1 27.4	19.8
198715 2005 CD_{58}	15.6	X	1.91740	254.40138	243.99647	4.30195	0.0919853	0.18045315	3.1014140	21	1 1.1	19.6
198716 2005 CR_{58}	15.8	X	269.63352	71.65764	320.90410	14.00742	0.3302953	0.21313599	2.7756510	21	6 14.9	20.5
198717 Szymczyk	15.5	X	83.70435	138.42724	306.03893	11.01429	0.1127750	0.18621867	3.0370637	21	2 21.3	19.6
198718 2005 CC_{64}	15.9	X	267.16161	351.61958	78.55227	4.75847	0.1284817	0.21402167	2.7679881	21	8 29.7	19.6
198719 2005 CP_{64}	15.4	X	356.04983	252.46202	279.97999	8.45018	0.0491636	0.18388727	3.0626799	21	2 4.7	19.7
198720 2005 CN_{72}	15.8	X	220.65038	254.74759	127.70851	10.38866	0.0896558	0.19749977	2.9202833	21	5 11.5	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198721 2005 CR_{74}	15.7	X	292.11098	109.90544	99.85650	6.24880	0.1252397	0.17770816	3.1332698	21	—	—
198722 2005 CU_{78}	14.8	X	301.00710	299.04269	323.83595	1.94594	0.1783650	0.12504318	3.9606157	21	3 8.9	20.2
198723 2005 EV_{4}	15.2	X	123.34589	345.84467	15.17346	3.98094	0.0576143	0.17330722	3.1860917	21	—	—
198724 2005 EH_{5}	15.8	X	54.88965	83.28916	74.38048	3.28199	0.1674723	0.18837955	3.0137939	21	4 25.2	19.4
198725 2005 EY_{12}	14.9	X	198.19712	264.15446	355.79737	11.06127	0.0824292	0.16908155	3.2389574	21	—	—
198726 2005 EP_{18}	15.5	X	1.88516	90.41783	3.79225	10.06322	0.0966928	0.16943184	3.2344916	21	—	—
198727 2005 EF_{21}	14.9	X	269.12448	255.24095	2.26016	9.67016	0.0284596	0.18064388	3.0992305	21	2 8.9	19.4
198728 2005 EG_{21}	14.9	X	127.00374	205.34536	150.35069	10.36717	0.0321698	0.17380405	3.1800171	21	—	—
198729 2005 EE_{23}	15.6	X	42.27951	258.12942	164.05724	1.89075	0.0849991	0.17251216	3.1958734	21	—	—
198730 2005 EF_{23}	15.9	X	350.82627	263.31777	277.42890	0.49061	0.1004223	0.18138634	3.0907675	21	2 5.7	19.6
198731 2005 EM_{23}	15.9	X	8.29520	301.02454	171.48533	5.55422	0.1430923	0.17556856	3.1586745	21	—	—
198732 2005 EQ_{23}	15.3	X	0.21501	118.36640	340.35758	10.85367	0.1009285	0.17152550	3.2081174	21	—	—
198733 2005 EV_{23}	15.8	X	6.74341	354.47656	155.45644	0.51027	0.1242057	0.17991782	3.1075630	21	1 20.5	19.5
198734 2005 EM_{24}	15.0	X	350.56249	16.84135	117.57794	6.36509	0.0968638	0.17473105	3.1687598	21	—	—
198735 2005 EC_{25}	15.9	X	57.51665	89.15210	90.97780	3.88404	0.1700470	0.19157055	2.9802329	21	5 29.5	19.4
198736 2005 EB_{28}	15.4	X	299.30974	57.92898	152.51307	0.70655	0.1321124	0.17536050	3.1611725	21	1 3.3	20.0
198737 2005 EW_{28}	16.1	X	323.78346	30.16137	103.58899	3.96159	0.1217737	0.22935670	2.6431903	21	—	—
198738 2005 EO_{29}	15.5	X	199.59322	107.87307	112.14472	5.06203	0.0721297	0.21982681	2.7190401	21	12 22.5	19.3
198739 2005 EN_{32}	14.9	X	49.99150	69.10524	15.75867	5.67456	0.1199128	0.17721081	3.1391295	21	1 9.9	18.7
198740 2005 EK_{34}	15.7	X	67.06033	260.06306	236.71864	2.39147	0.1180802	0.18876873	3.0096501	21	4 7.9	19.4
198741 2005 EY_{34}	15.1	X	15.12701	311.58149	189.47245	14.36068	0.1914654	0.17857788	3.1230883	21	1 16.7	18.8
198742 2005 EN_{35}	15.6	X	317.19333	268.76335	309.88194	3.15737	0.2331368	0.17807506	3.1289646	21	1 19.6	19.8
198743 2005 EX_{36}	15.0	X	288.65903	165.95063	34.85062	6.69336	0.1276245	0.17144380	3.2091366	21	—	—
198744 2005 EM_{42}	16.3	X	225.81163	239.34614	237.01678	1.41024	0.1644533	0.21174249	2.7878156	21	9 2.4	20.7
198745 2005 EC_{48}	15.2	X	352.05215	330.60972	161.04185	9.61877	0.0511140	0.17506887	3.1646822	21	—	—
198746 2005 EC_{51}	15.1	X	313.00504	19.77903	138.23612	2.03142	0.1479826	0.17239086	3.1973725	21	—	—
198747 2005 EN_{51}	16.5	X	21.90406	37.04956	83.66089	0.97369	0.2537172	0.23950061	2.5680194	21	—	—
198748 2005 EV_{55}	15.7	X	349.74324	259.50581	263.79605	0.84480	0.0615512	0.17868925	3.1217906	21	1 18.3	19.7
198749 2005 EM_{58}	15.7	X	60.33003	152.30649	339.25024	3.90305	0.0710050	0.18489185	3.0515761	21	3 17.3	19.5
198750 2005 ER_{58}	15.3	X	21.90780	128.44790	351.08825	10.63328	0.1569114	0.17770737	3.1332792	21	1 8.1	19.0
198751 2005 EP_{59}	15.3	X	75.77017	119.38678	295.62236	3.91011	0.1482714	0.17672996	3.1448209	21	1 14.5	19.3
198752 2005 EA_{60}	19.8	X	54.44383	116.68036	334.31952	1.76111	0.5231892	0.24774155	2.5107500	21	3 5.9	20.0
198753 2005 EL_{73}	16.1	X	317.58258	40.40346	167.43342	2.91810	0.1013994	0.18301420	3.0724125	21	1 23.9	20.4
198754 2005 EJ_{74}	15.6	X	17.59903	261.82204	226.56437	2.91029	0.1888900	0.18132182	3.0915006	21	1 6.3	18.8
198755 2005 EY_{76}	15.5	X	164.72658	33.73074	320.46984	1.82299	0.0987419	0.17879268	3.1205865	21	2 8.4	20.2
198756 2005 EJ_{82}	15.7	X	171.28063	229.26581	100.47935	0.33990	0.0636602	0.18066607	3.0989767	21	1 14.7	20.4
198757 2005 EU_{85}	15.6	X	348.15446	79.46159	61.42385	2.00771	0.1262275	0.17565504	3.1576377	21	—	—
198758 2005 EG_{86}	15.9	X	300.37409	28.65874	120.75117	5.70728	0.0371457	0.22784497	2.6548689	21	—	—
198759 2005 EX_{86}	16.0	X	144.84897	20.19225	3.19444	0.64554	0.0727236	0.18058035	3.0999574	21	2 19.5	20.5
198760 2005 EC_{90}	15.1	X	59.71623	303.51243	148.50946	11.47842	0.0609011	0.18126049	3.0921979	21	1 25.9	19.3
198761 2005 EU_{90}	15.4	X	10.64372	337.32635	156.49808	6.14511	0.1016505	0.17860900	3.1227256	21	1 7.8	19.3
198762 2005 EA_{91}	15.1	X	306.11410	342.23128	169.28114	15.22578	0.1032815	0.17046536	3.2214047	21	—	—
198763 2005 EG_{92}	14.8	X	33.21089	276.18435	175.18875	25.09506	0.1885140	0.17537070	3.1610500	21	—	—
198764 2005 EY_{92}	15.0	X	151.84926	68.67628	348.77754	21.23969	0.2287768	0.19153681	2.9805829	21	4 10.5	20.3
198765 2005 EX_{94}	15.1	X	14.45055	355.73035	69.15648	6.68116	0.0909740	0.16837435	3.2480205	21	—	—
198766 2005 EC_{96}	15.1	X	0.97326	181.00276	304.32097	8.13587	0.0457988	0.17689425	3.1428735	21	—	—
198767 2005 EF_{96}	15.9	X	175.64034	309.18180	189.19639	7.66603	0.1645594	0.20833266	2.8181524	21	8 12.1	20.7
198768 2005 EO_{96}	15.2	X	265.46042	12.92147	211.69122	8.69982	0.0629133	0.17610604	3.1522444	21	—	—
198769 2005 EW_{96}	15.3	X	18.63812	262.67853	252.38334	8.94020	0.0988402	0.18451888	3.0556869	21	2 11.0	19.3
198770 2005 EG_{97}	14.9	X	276.34946	324.51726	192.71328	10.05867	0.0232066	0.16774107	3.2561903	21	—	—
198771 2005 EY_{97}	15.5	X	154.21948	265.03423	187.48084	10.10195	0.0849875	0.19728293	2.9224227	21	5 26.3	20.0
198772 2005 EG_{99}	15.6	X	65.39337	317.16456	186.79097	8.91351	0.0427126	0.18893158	3.0079204	21	4 6.6	19.5
198773 2005 EN_{99}	16.0	X	64.60714	142.60007	293.35924	4.82553	0.2557241	0.24251892	2.5466678	21	1 15.4	17.9
198774 2005 EC_{100}	15.4	X	29.37552	90.32279	21.16809	10.74929	0.0863737	0.17734246	3.1375758	21	1 11.6	19.5
198775 2005 ED_{100}	15.2	X	269.04702	195.83832	33.16495	9.98082	0.0437923	0.17450993	3.1714360	21	1 3.1	20.0
198776 2005 ET_{101}	14.9	X	316.07582	321.49022	195.05768	7.54126	0.0631414	0.16847774	3.2466916	21	—	—
198777 2005 EY_{101}	16.0	X	349.57411	11.89843	95.67383	5.80161	0.2356949	0.23179970	2.6245860	21	—	—
198778 2005 EG_{109}	15.6	X	95.62720	283.64627	208.62857	10.27629	0.0490501	0.19274496	2.9681148	21	5 2.2	19.7
198779 2005 EA_{111}	14.9	X	29.99127	315.25170	124.09716	15.08908	0.0826450	0.17176937	3.2050802	21	—	—
198780 2005 EP_{113}	15.1	X	120.92648	54.55710	13.43255	10.18782	0.1144512	0.18539470	3.0460557	21	3 23.9	19.5
198781 2005 EK_{114}	16.2	X	65.31868	280.68578	145.77855	2.16986	0.1522848	0.17759345	3.1346189	21	1 12.8	20.0
198782 2005 EM_{115}	15.0	X	325.80838	175.12014	18.79000	7.44534	0.1994572	0.17633664	3.1494956	21	1 6.8	19.3
198783 2005 ES_{118}	15.0	X	60.28862	267.61224	243.16853	8.81729	0.0393784	0.18799138	3.0179411	21	4 4.6	19.3
198784 2005 EU_{121}	15.3	X	111.87420	84.76027	291.75536	2.80572	0.0798186	0.17562546	3.1579924	21	1 6.4	19.5
198785 2005 EH_{124}	15.6	X	39.94860	12.48625	71.36341	2.67679	0.1569303	0.17440894	3.1726602	21	—	—
198786 2005 EP_{129}	15.1	X	159.51894	134.83046	143.96791	6.96892	0.1295101	0.17043638	3.2217698	21	—	—
198787 2005 EV_{129}	16.1	X	295.61877	89.24154	164.18759	2.81444	0.0715169	0.18791217	3.0187892	21	2 24.9	20.5
198788 2005 EQ_{131}	15.1	X	271.44284	49.48707	159.60712	11.14184	0.0103041	0.17565828	3.1575990	21	—	—
198789 2005 EV_{132}	16.1	X	16.48448	88.28917	303.40101	5.93696	0.0499124	0.22077030	2.7112878	21	12 22.8	19.5
198790 2005 EH_{133}	15.7	X	274.11643	19.27231	58.90312	10.29012	0.1821163	0.21625790	2.7488733	21	9 14.3	19.5
198791 2005 EC_{134}	15.1	X	69.29185	204.01370	214.71161	8.86838	0.0742642	0.17416175	3.1756615	21	—	—
198792 2005 EW_{136}	15.0	X	332.70467	343.13697	164.42179	5.22350	0.1158196	0.17049555	3.2210244	21	—	—
198793 2005 EN_{137}	15.5	X	37.15548	319.77165	150.58236	1.74942	0.1684753	0.17636935	3.1491062	21	1 21.9	19.0
198794 2005 EX_{137}	15.7	X	37.24437	61.56586	55.01887	2.05309	0.1466112	0.17689851	3.1428230	21	1 30.2	19.2
198795 2005 EY_{140}	15.9	X	229.64076	235.94926	37.04438	1.14820	0.1079838	0.17937055	3.1138806	21	1 7.9	20.7
198796 2005 ET_{152}	15.6	X	307.51194	181.26657	33.02745	5.48044	0.0964041	0.17560408	3.1582486	21	1 23.6	20.1
198797 2005 EF_{156}	15.7	X	0.35974	57.93759	45.82609	8.35247	0.1600295	0.23627545	2.5913355	21	—	—
198798 2005 EM_{156}	14.9	X	118.18976	342.24173	83.52121	10.85836	0.0305041	0.18708481	3.0276827	21	3 10.8	19.3
198799 2005 EL_{157}	15.9	X	356.38020	232.72193	345.07289	1.88039	0.0194171	0.18727720	3.0256088	21	4 5.9	20.1
198800 2005 EZ_{166}	15.9	X	48.63881	268.57790	182.74686	8.55743	0.0678503	0.17620061	3.1511164	21	1 10.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198801 2005 EH_{172}	14.9	X	312.95678	252.76954	297.09304	3.64825	0.1148661	0.17357014	3.1828735	21	—	—
198802 2005 ET_{175}	15.4	X	98.40734	252.98534	180.10232	10.41886	0.0867779	0.18326582	3.0695996	21	2 24.9	19.8
198803 2005 EW_{177}	16.1	X	195.73094	285.37779	67.62056	1.56796	0.1034585	0.18980107	2.9987271	21	3 8.8	20.7
198804 2005 EW_{180}	16.4	X	198.45603	203.62648	220.44290	1.68628	0.0218134	0.20183200	2.8783440	21	6 7.3	20.3
198805 2005 EE_{190}	16.2	X	296.15015	210.88459	168.97824	5.05976	0.1322732	0.21244778	2.7816421	21	7 29.7	19.7
198806 2005 ES_{194}	15.5	X	337.23467	184.34153	340.24787	3.00912	0.2320213	0.17571574	3.1569105	21	—	—
198807 2005 EX_{195}	16.1	X	55.38239	262.01359	205.70517	2.63742	0.1798247	0.18124243	3.0924034	21	2 19.4	19.6
198808 2005 EY_{196}	15.1	X	162.37519	243.03105	217.53227	13.11661	0.0627673	0.19726812	2.9225690	21	6 11.8	19.6
198809 2005 EG_{201}	15.5	X	343.86019	64.10536	87.27132	13.56840	0.2153330	0.23832038	2.5764908	21	—	—
198810 2005 EK_{201}	15.4	X	170.91296	52.01344	66.44000	15.81870	0.1015028	0.20502490	2.8483825	21	7 16.5	20.0
198811 2005 EF_{203}	15.8	X	59.30490	0.25926	72.03542	2.33069	0.1539793	0.17535302	3.1612624	21	1 11.7	19.5
198812 2005 EV_{207}	16.4	X	46.26792	344.11485	248.57374	2.29706	0.0769857	0.20214677	2.8753553	21	7 8.6	20.0
198813 2005 EB_{217}	15.9	X	246.13004	67.01227	35.74940	10.30474	0.1442349	0.21538546	2.7562914	21	9 15.4	19.9
198814 2005 EJ_{218}	14.8	X	0.64759	217.92974	283.36268	9.51852	0.0454274	0.17800815	3.1297486	21	1 7.6	18.9
198815 2005 EJ_{222}	14.6	X	113.00408	193.23916	46.40674	9.04708	0.0622491	0.15292126	3.4633055	21	10 8.4	19.7
198816 2005 EZ_{222}	15.2	X	10.50848	316.54597	160.21625	5.58848	0.1381149	0.17346390	3.1841729	21	—	—
198817 2005 EZ_{244}	15.3	X	137.69291	243.88266	177.44102	9.95774	0.0448297	0.18603480	3.0390646	21	3 25.7	19.7
198818 2005 EK_{247}	15.5	X	11.74271	91.46431	15.58115	9.45236	0.0655890	0.17465071	3.1697315	21	—	—
198819 2005 ES_{247}	15.5	X	131.62311	70.08589	11.53131	9.53477	0.0596180	0.19032225	2.9932501	21	4 12.3	19.8
198820 Iwanowska	15.0	X	89.08849	305.56902	131.90943	12.34167	0.1029634	0.18238094	3.0795204	21	2 23.9	19.2
198821 2005 ER_{258}	15.1	X	349.99350	120.20027	2.87424	12.49964	0.1156150	0.17027035	3.2238639	21	—	—
198822 2005 EW_{263}	15.1	X	244.43789	278.51950	315.44015	9.56062	0.0483054	0.17397061	3.1779871	21	—	—
198823 2005 ES_{264}	15.9	X	95.87290	219.86799	206.50438	4.99952	0.1542585	0.18081538	3.0972705	21	2 23.3	20.2
198824 2005 EV_{265}	15.2	X	357.17847	179.50500	354.11753	4.83651	0.0993267	0.17878262	3.1207036	21	2 8.3	19.1
198825 2005 EW_{272}	15.7	X	107.85457	1.25424	46.23309	2.84063	0.0451578	0.17977605	3.1091964	21	2 2.9	20.1
198826 2005 EY_{272}	15.1	X	142.78950	337.96970	3.20259	10.40038	0.0717054	0.17291810	3.1908698	21	—	—
198827 2005 EA_{273}	15.2	X	309.07095	322.05508	247.02109	8.63432	0.0545265	0.18074636	3.0980589	21	1 20.3	19.6
198828 2005 EA_{277}	15.6	X	17.89224	78.67621	21.69000	0.25562	0.1357264	0.17083928	3.2167025	21	—	—
198829 2005 EP_{279}	14.9	X	39.20156	177.15104	277.77511	13.63497	0.0878565	0.17952642	3.1120779	21	1 2.7	18.8
198830 2005 EX_{285}	14.9	X	222.11073	213.59942	67.49673	17.80626	0.0592767	0.17622112	3.1508719	21	1 12.2	19.8
198831 2005 EL_{290}	15.3	X	185.34330	324.67887	290.52892	8.58828	0.1540971	0.22049179	2.7135704	21	—	—
198832 2005 EY_{295}	15.9	X	131.20643	81.48060	333.41454	0.97097	0.0369949	0.18849835	3.0125275	21	3 8.2	20.0
198833 2005 EB_{315}	15.6	X	133.18366	224.24318	111.26773	4.70219	0.0611875	0.17352414	3.1834360	21	—	—
198834 2005 EW_{326}	15.3	X	180.44903	338.79716	313.31160	8.07303	0.0482022	0.17601253	3.1533608	21	—	—
198835 2005 GY_{2}	15.3	X	10.75749	97.38382	41.77163	10.37705	0.1933275	0.17587831	3.1549649	21	1 10.8	18.9
198836 2005 GP_{39}	15.1	X	59.89173	66.24922	50.25972	18.31074	0.1622760	0.18122066	3.0926510	21	3 20.1	19.2
198837 2005 GT_{47}	14.5	X	4.89719	317.58953	156.76618	18.47468	0.1043114	0.17119885	3.2121969	21	—	—
198838 2005 GB_{54}	14.7	X	7.43424	313.79829	211.22676	18.40591	0.2297831	0.17743006	3.1365430	21	1 27.4	18.4
198839 2005 GV_{54}	17.0	X	322.58267	353.82292	338.65333	2.17045	0.2108972	0.25753238	2.4467043	21	6 25.2	19.0
198840 2005 GZ_{57}	16.2	X	25.45896	63.07108	39.25668	6.05586	0.1684121	0.17219119	3.1998437	21	—	—
198841 2005 GL_{74}	15.1	X	30.98668	284.42453	176.56430	13.63705	0.2243121	0.17525529	3.1624375	21	—	—
198842 2005 GT_{85}	15.8	X	99.93207	67.81147	46.03764	2.24265	0.0223076	0.18757942	3.0223581	21	4 10.7	19.9
198843 2005 GW_{108}	15.8	X	53.44787	277.43447	177.47700	4.09259	0.2438553	0.17619481	3.1511855	21	2 7.9	19.0
198844 2005 GP_{119}	15.6	X	209.62955	275.88300	289.78081	12.17129	0.1425705	0.21775006	2.7363010	21	12 7.9	19.8
198845 2005 GF_{120}	14.8	X	354.39837	302.11820	209.90625	7.26787	0.1607438	0.17388871	3.1789849	21	—	—
198846 2005 GV_{178}	14.5	X	36.61262	239.22831	259.10496	25.29872	0.1612292	0.17862469	3.1225427	21	2 12.0	18.7
198847 2005 GO_{189}	15.9	X	177.20682	159.40594	155.89258	0.82451	0.1470707	0.17539559	3.1607509	21	1 9.9	20.9
198848 2005 GK_{196}	15.5	X	159.11539	332.11444	17.36419	4.96348	0.0745391	0.17642135	3.1484873	21	1 28.1	20.2
198849 2005 HJ_{7}	16.2	X	55.04644	330.36605	167.79369	2.37034	0.1059976	0.18385498	3.0630385	21	3 22.9	20.0
198850 2005 JC_{88}	15.1	X	87.21562	267.59157	205.53008	8.18256	0.0413037	0.18411373	3.0601680	21	3 25.9	19.4
198851 2005 JY_{98}	14.8	X	0.37912	279.17805	228.43369	21.81691	0.1953056	0.17334501	3.1856287	21	—	—
198852 2005 JS_{103}	15.1	X	76.60133	8.61964	25.86480	3.61297	0.0323029	0.16840425	3.2476361	21	—	—
198853 2005 JY_{152}	16.1	X	48.32448	190.59534	315.16680	0.53721	0.1140325	0.18341606	3.0679232	21	3 22.8	19.8
198854 2005 JZ_{178}	15.6	X	116.09314	253.66520	205.50984	7.54356	0.2050701	0.18604009	3.0390069	21	5 6.2	20.2
198855 2005 LH_{3}	17.3	X	346.93334	132.46479	198.67222	20.85348	0.0887962	0.37598175	1.9011872	21	8 31.8	19.1
198856 2005 LR_{3}	16.9	X	329.18320	26.42981	73.79294	24.99359	0.3351488	0.46337562	1.6539178	21	—	—
198857 2005 LJ_{7}	15.0	X	19.86079	268.53601	236.81518	20.53254	0.1976214	0.17340752	3.1848631	21	1 27.4	18.9
198858 2005 LN_{51}	12.9	X	346.61404	256.19928	136.91821	15.67896	0.1431490	0.08224373	5.2368183	21	10 25.9	19.3
198859 2005 MP_{32}	17.0	X	49.50049	305.13744	313.91542	17.94503	0.0545197	0.37193981	1.9149360	21	8 22.9	18.7
198860 2005 NX_{41}	16.7	X	85.53571	252.18541	313.59860	16.97176	0.0438929	0.36777830	1.9293543	21	7 29.5	18.3
198861 2005 OX_{2}	16.9	X	233.16420	154.58786	245.36010	19.88280	0.0905071	0.36119094	1.9527418	21	6 7.0	19.0
198862 2005 QK_{8}	17.1	X	12.84713	260.43337	322.51688	17.66638	0.0610934	0.35869108	1.9618042	21	4 1.2	19.3
198863 2005 QL_{23}	17.6	X	356.19887	257.46054	88.58803	0.92630	0.1441141	0.31012765	2.1616020	21	10 17.9	19.1
198864 2005 QS_{84}	16.5	X	68.57963	284.92040	276.72998	3.19697	0.1264473	0.23781345	2.5801509	21	7 7.0	19.5
198865 2005 QT_{157}	17.3	X	349.55722	343.19656	359.50610	8.34268	0.1737027	0.30762544	2.1733077	21	9 27.9	18.5
198866 2005 QU_{167}	17.0	X	311.77730	136.36986	181.21637	22.01135	0.0787399	0.36230355	1.9487419	21	5 31.8	19.4
198867 2005 QO_{181}	17.0	X	224.04494	234.24473	131.31765	3.56294	0.0939799	0.28711875	2.2755952	21	4 13.9	20.2
198868 2005 RB_{1}	16.7	X	262.72282	136.63070	207.31624	24.25708	0.0764519	0.35628091	1.9706418	21	4 25.1	18.8
198869 2005 RO_{24}	16.8	X	297.91555	120.62416	220.95127	5.76563	0.2282615	0.29705453	2.2245658	21	5 21.4	19.3
198870 2005 RS_{27}	16.5	X	231.42270	51.66886	336.98073	7.37247	0.1254243	0.29166095	2.2519074	21	5 17.3	19.8
198871 2005 RY_{32}	16.7	X	314.06345	118.02948	173.21689	7.33748	0.1928244	0.29435001	2.2381714	21	4 8.4	19.1
198872 2005 SU_{2}	18.0	X	347.61079	44.28844	333.31830	1.15603	0.1700290	0.31151115	2.1551970	21	11 24.0	19.3
198873 2005 SZ_{28}	16.7	X	306.99421	290.88370	334.70362	5.31114	0.0732128	0.28622237	2.2803438	21	3 10.9	19.4
198874 2005 SK_{30}	17.6	X	3.39123	44.25897	285.17304	0.94235	0.1933444	0.30872536	2.1681426	21	10 11.4	19.0
198875 2005 SA_{44}	17.2	X	299.24808	288.22745	348.00709	4.46811	0.1519440	0.28746226	2.2737820	21	3 4.3	20.1
198876 2005 SD_{48}	16.9	X	145.16008	257.74113	211.16175	6.59834	0.1134514	0.28941690	2.2635328	21	6 4.4	20.1
198877 2005 SH_{71}	16.7	X	194.20124	342.21750	18.85346	21.57164	0.1332623	0.34847874	1.9999472	21	3 8.4	19.7
198878 2005 SJ_{93}	17.9	X	158.49473	350.65542	209.35553	4.89532	0.1046103	0.30827116	2.1702718	21	10 23.9	20.6
198879 2005 SC_{123}	17.0	X	306.07006	353.29565	338.96135	6.28520	0.1409461	0.29834412	2.2181508	21	6 3.2	19.5
198880 2005 SN_{140}	17.9	X	330.06267	126.05516	162.15027	3.34320	0.1312171	0.29559147	2.2319003	21	5 11.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198881 2005 SX_{180}	17.2	X	342.80182	351.12764	325.14618	1.60989	0.1842533	0.30343952	2.1932491	21	7 21.2	18.4
198882 2005 SH_{187}	16.9	X	298.59278	17.10842	311.23835	4.60606	0.1776315	0.29659143	2.2268809	21	5 9.0	19.5
198883 2005 ST_{215}	17.2	X	200.61198	80.92033	316.69761	2.30735	0.1512259	0.28689927	2.2767556	21	4 28.0	20.6
198884 2005 SH_{253}	17.1	X	216.71840	162.39370	14.57660	6.36403	0.0612133	0.31474111	2.1404269	21	12 6.9	19.6
198885 2005 SE_{281}	16.6	X	348.54805	24.87497	213.95922	6.51697	0.0792955	0.28375761	2.2935297	21	4 4.6	19.1
198886 2005 TT_{10}	16.7	X	303.01257	314.52471	3.13234	7.59265	0.1756433	0.29374496	2.2412438	21	4 29.5	19.3
198887 2005 TE_{63}	17.4	X	182.21167	314.69071	137.89127	1.46640	0.1466199	0.29132448	2.2536410	21	6 23.2	20.8
198888 2005 TY_{77}	16.9	X	290.73433	335.41152	16.58221	6.03601	0.2830710	0.29673273	2.2261739	21	5 15.9	20.0
198889 2005 TW_{81}	17.0	X	102.78114	198.42044	354.14163	5.61499	0.0875823	0.29861282	2.2168199	21	8 8.3	19.7
198890 2005 TH_{83}	16.8	X	9.35890	25.37681	337.41759	5.14210	0.2054006	0.31140575	2.1556834	21	12 19.1	18.9
198891 2005 TF_{90}	15.9	X	222.75075	329.20749	83.38202	26.89436	0.2431070	0.28640350	2.2793823	21	6 6.8	19.6
198892 2005 TO_{104}	17.0	X	213.66659	96.47440	327.66200	6.70706	0.0864262	0.29301420	2.2449686	21	6 20.7	20.1
198893 2005 TW_{138}	18.1	X	11.67320	134.26797	175.67563	4.61638	0.1599803	0.30578733	2.1820083	21	9 21.4	19.7
198894 2005 TL_{152}	16.4	X	43.00583	38.55062	131.54410	4.08773	0.1261796	0.26962726	2.3729769	21	4 5.4	18.6
198895 2005 TQ_{168}	17.5	X	141.35377	257.58775	230.62806	2.28108	0.0955478	0.29070622	2.2568351	21	6 24.8	20.6
198896 2005 TC_{173}	17.1	X	293.09107	337.66605	18.79082	5.92743	0.2138957	0.29744448	2.2226211	21	6 6.6	19.6
198897 2005 UZ_{7}	16.5	X	22.74752	338.22777	227.46555	4.03498	0.1018015	0.28421936	2.2910449	21	4 14.7	18.7
198898 2005 US_{16}	17.8	X	2.01947	139.45214	202.12912	3.09752	0.1582181	0.30754554	2.1736841	21	10 23.9	19.2
198899 2005 UQ_{27}	17.3	X	269.25137	143.74976	215.32771	3.44753	0.1453127	0.29360420	2.2419601	21	5 21.3	20.1
198900 2005 UH_{30}	17.3	X	355.50947	295.40429	46.04889	1.62939	0.1867976	0.30468198	2.1872825	21	10 12.8	18.7
198901 2005 UX_{30}	18.5	X	354.90714	171.47104	205.00756	1.78805	0.0604523	0.30986523	2.1628222	21	11 21.9	20.7
198902 2005 UE_{32}	17.0	X	63.84308	16.21001	216.42376	4.04547	0.1128487	0.29644821	2.2275980	21	8 12.2	19.6
198903 2005 UA_{33}	17.2	X	349.15674	323.76478	209.29825	2.24103	0.1416052	0.27027941	2.3691583	21	—	—
198904 2005 UH_{33}	17.3	X	290.09666	10.38575	195.32183	2.03626	0.1205899	0.26714095	2.3876779	21	—	—
198905 2005 UJ_{33}	17.5	X	320.37985	120.92611	153.43582	2.38603	0.1043279	0.28784043	2.2717900	21	4 8.9	19.8
198906 2005 UL_{38}	17.2	X	92.18318	266.92378	202.76461	2.44390	0.0805328	0.27652989	2.3333219	21	3 21.7	19.8
198907 2005 UO_{40}	17.1	X	166.25846	204.99563	217.33143	2.53595	0.1489595	0.28198999	2.3031042	21	4 27.7	20.3
198908 2005 UZ_{41}	17.1	X	326.61220	208.16532	111.90684	2.28467	0.0691439	0.29501061	2.2348290	21	7 3.5	19.4
198909 2005 UZ_{49}	17.3	X	358.34177	76.94705	287.78096	2.06544	0.0780721	0.30908096	2.1664793	21	11 10.9	19.4
198910 2005 UX_{59}	16.9	X	8.20978	142.37081	219.22753	2.90165	0.1251354	0.30952385	2.1644122	21	12 1.2	19.0
198911 2005 UM_{64}	17.0	X	201.57798	228.60972	184.04286	9.45137	0.0748111	0.28663790	2.2781394	21	5 23.1	20.2
198912 2005 UV_{73}	16.8	X	190.95064	274.44948	220.39449	3.48995	0.0613506	0.29854778	2.2171419	21	9 1.5	19.8
198913 2005 UD_{112}	17.6	X	264.48673	153.38544	263.12967	2.99708	0.1320928	0.29834745	2.2181343	21	8 7.8	20.1
198914 2005 UE_{112}	17.0	X	123.80209	181.96300	38.04277	7.48906	0.0765408	0.30189228	2.2007365	21	10 11.9	19.9
198915 2005 UZ_{126}	17.6	X	129.16110	259.59865	214.43026	1.16186	0.1705724	0.28307418	2.2972198	21	5 29.8	20.7
198916 2005 UU_{130}	16.8	X	45.83561	57.51425	244.93722	3.48526	0.2254981	0.30798144	2.1716326	21	11 17.7	19.4
198917 2005 UG_{131}	17.1	X	31.87090	359.98378	238.97506	4.74679	0.0779822	0.29002972	2.2603432	21	6 23.6	19.4
198918 2005 UP_{132}	17.1	X	289.05745	243.54512	142.95934	6.78979	0.1297174	0.29893495	2.2152271	21	8 1.8	19.4
198919 2005 UT_{142}	17.3	X	36.72032	46.96804	226.43617	2.99238	0.1431415	0.29959413	2.2119765	21	9 5.2	19.3
198920 2005 UP_{158}	17.4	X	12.00088	21.35334	14.15508	0.38878	0.1131559	0.31556121	2.1367169	21	—	—
198921 2005 US_{160}	17.1	X	359.87715	216.02350	111.84752	4.23845	0.1171528	0.30490121	2.1862339	21	9 23.4	18.9
198922 2005 US_{174}	17.2	X	132.69489	258.68374	339.83415	1.97273	0.1299526	0.30782739	2.1723570	21	11 15.7	20.3
198923 2005 UJ_{180}	17.1	X	326.43590	120.24305	124.00934	2.75068	0.1304806	0.27929728	2.3178834	21	3 2.7	19.7
198924 2005 UA_{181}	17.6	X	188.34625	281.60681	196.61471	2.56378	0.1141224	0.29380533	2.2409368	21	8 3.7	20.9
198925 2005 UE_{185}	17.6	X	248.04005	189.42477	139.69901	0.78655	0.0973504	0.28232238	2.3012962	21	3 22.2	20.7
198926 2005 UW_{203}	17.3	X	259.21313	62.39113	145.18816	0.44091	0.1358495	0.26104365	2.4247146	21	—	—
198927 2005 UO_{216}	16.7	X	327.40711	333.22898	57.57221	6.91557	0.1098455	0.30533671	2.1841546	21	10 28.9	18.4
198928 2005 UP_{216}	16.2	X	44.96564	117.27117	58.38223	13.16030	0.0116396	0.28014403	2.3132104	21	4 11.7	19.1
198929 2005 UK_{217}	16.7	X	179.17629	201.04190	236.79920	7.68565	0.1668809	0.28549067	2.2842384	21	5 31.9	20.2
198930 2005 UW_{241}	17.4	X	61.77250	2.81456	324.49475	1.97669	0.2128524	0.31430480	2.1424073	21	—	—
198931 2005 UP_{242}	17.7	X	220.08920	79.99246	8.52345	5.43554	0.1052549	0.29463929	2.2367062	21	8 2.5	20.8
198932 2005 UX_{243}	17.2	X	272.73214	64.95006	280.41964	4.24005	0.1794900	0.29004844	2.2602459	21	4 29.9	20.3
198933 2005 UY_{249}	16.8	X	36.15811	345.46851	349.10587	2.04273	0.1629175	0.30999210	2.1622320	21	12 10.4	19.3
198934 2005 UR_{251}	17.4	X	207.07213	222.01349	223.90320	3.82449	0.1012293	0.29391611	2.2403736	21	7 11.8	20.5
198935 2005 UO_{253}	16.7	X	202.62329	110.79288	291.93886	7.01404	0.1091028	0.28608662	2.2810651	21	5 5.9	20.2
198936 2005 US_{260}	17.4	X	91.06368	214.72422	73.65304	3.06266	0.1929346	0.31342311	2.1464233	21	12 13.6	20.4
198937 2005 UX_{263}	17.6	X	70.74529	227.48718	59.46772	4.82626	0.1501285	0.31021896	2.1611778	21	11 16.7	20.3
198938 2005 US_{273}	15.9	X	201.17127	197.14038	48.96337	7.38998	0.1109198	0.24676279	2.5173848	21	—	—
198939 2005 UG_{276}	17.0	X	114.27312	270.64248	288.70656	1.34657	0.1371965	0.29784972	2.2206047	21	9 4.4	19.9
198940 2005 UA_{279}	17.2	X	109.41758	338.65381	205.64366	4.39561	0.1141772	0.29349572	2.2425125	21	8 4.7	20.1
198941 2005 UV_{281}	17.1	X	343.85402	10.47584	223.62213	5.26549	0.0878030	0.28087476	2.3091966	21	3 18.9	19.5
198942 2005 UW_{289}	16.3	X	207.86932	358.12603	272.28968	5.07475	0.1055476	0.26528148	2.3988224	21	—	—
198943 2005 UZ_{290}	16.9	X	148.37836	290.74851	265.20003	4.88465	0.0249288	0.30335091	2.1936762	21	10 3.3	19.5
198944 2005 UM_{292}	16.8	X	313.93199	293.42788	11.38183	4.62334	0.1830909	0.29245887	2.2478096	21	4 27.6	19.0
198945 2005 UQ_{296}	17.1	X	26.26610	357.10914	238.21395	5.05067	0.1323715	0.28849949	2.2683289	21	6 12.1	18.9
198946 2005 UB_{297}	17.0	X	339.15778	151.80073	50.28088	2.96321	0.1472819	0.27240957	2.3567914	21	1 20.4	19.6
198947 2005 UR_{298}	16.9	X	272.62847	141.93893	224.84458	5.56792	0.0646871	0.29262369	2.2469655	21	6 18.5	19.5
198948 2005 UB_{308}	18.1	X	36.68471	227.53867	22.86439	1.30038	0.0618577	0.29335938	2.2432072	21	7 19.1	20.3
198949 2005 UG_{322}	16.8	X	278.05738	306.58258	266.46063	2.47164	0.1065140	0.26408372	2.4060702	21	—	—
198950 2005 UW_{327}	16.8	X	290.69713	319.52788	34.00734	5.47787	0.1004969	0.29354065	2.2422836	21	6 19.5	19.3
198951 2005 UJ_{330}	17.5	X	244.66301	147.81018	132.75621	1.93600	0.1702203	0.27354871	2.3502439	21	1 13.3	21.3
198952 2005 UR_{346}	17.1	X	279.56720	324.97920	242.38939	3.10869	0.1318508	0.26370825	2.4083535	21	—	—
198953 2005 US_{348}	16.8	X	167.44504	94.02986	349.00322	7.76915	0.0543367	0.28782224	2.2718857	21	5 18.6	19.9
198954 2005 UE_{350}	16.8	X	321.50797	226.26528	101.11217	6.03760	0.1958596	0.29743251	2.2226808	21	6 16.0	18.4
198955 2005 UJ_{355}	17.3	X	269.94824	93.39398	294.15150	2.95988	0.0951172	0.29529573	2.2333902	21	7 10.7	19.8
198956 2005 UL_{355}	16.6	X	317.05606	317.43254	17.50730	5.99817	0.1446108	0.29596739	2.2300100	21	6 29.1	18.7
198957 2005 UN_{378}	17.7	X	320.21590	209.54155	208.36456	5.32323	0.0923186	0.30921949	2.1658322	21	11 26.7	19.5
198958 2005 UY_{379}	17.2	X	358.04043	150.46557	138.73747	2.07068	0.1444928	0.29577542	2.2309748	21	7 11.3	18.8
198959 2005 UU_{382}	15.4	X	261.26505	254.48146	184.02921	15.83248	0.1966749	0.17587941	3.1549517	21	8 15.8	20.2
198960 2005 US_{425}	17.2	X	277.13113	274.31499	31.19053	4.83118	0.2206204	0.28682790	2.2771333	21	3 11.8	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
198961 2005 UC_{430}	17.4	X	165.57339	281.34957	244.78252	4.85159	0.0986537	0.29884272	2.2156829	21	9 12.2	20.6
198962 2005 UJ_{435}	17.3	X	67.59483	60.08307	171.05874	2.02342	0.0988010	0.29648328	2.2274224	21	8 14.7	19.6
198963 2005 UA_{438}	16.9	X	0.91054	324.20104	263.51029	4.95126	0.1087370	0.28520751	2.2857501	21	4 4.5	19.2
198964 2005 UC_{439}	17.0	X	345.28017	312.05190	40.27505	4.16699	0.1879371	0.30362944	2.1923344	21	10 6.9	18.1
198965 2005 UC_{442}	16.5	X	140.98916	182.36634	251.84622	8.46300	0.2000868	0.27787036	2.3258118	21	4 19.8	20.0
198966 2005 UR_{444}	17.1	X	176.37789	166.14959	249.01720	1.92533	0.1541908	0.28274870	2.2989824	21	4 28.2	20.4
198967 2005 UT_{445}	16.9	X	313.43210	232.56532	83.64810	4.79248	0.1379266	0.29174235	2.2514885	21	5 24.5	19.2
198968 2005 UF_{506}	15.7	X	273.39129	251.09069	127.91311	6.92265	0.0690479	0.21571281	2.7535022	21	7 6.9	19.3
198969 2005 UJ_{508}	16.6	X	126.81908	273.78867	299.35890	3.93354	0.1366047	0.23646033	2.5899847	21	9 29.4	20.7
198970 2005 UP_{508}	17.2	X	259.38802	254.65196	27.43683	2.59192	0.1926730	0.27529057	2.3403196	21	1 27.9	20.8
198971 2005 UU_{512}	16.3	X	222.74805	247.41470	25.22218	1.36543	0.1346900	0.18419636	3.0592527	21	—	—
198972 2005 UB_{527}	17.7	X	116.77252	222.01593	310.00530	0.76372	0.0539798	0.29107142	2.2549470	21	7 21.6	20.4
198973 2005 VO_{3}	17.9	X	228.52477	264.13963	161.74160	2.66094	0.1235255	0.29382439	2.2408399	21	7 7.4	20.9
198974 2005 VN_{4}	17.0	X	348.26616	214.02489	117.67152	2.73391	0.1360864	0.30136076	2.2033234	21	9 3.7	18.4
198975 2005 VO_{9}	17.6	X	325.30911	109.67816	183.29546	2.51844	0.1490234	0.29015920	2.2596707	21	5 7.5	19.6
198976 2005 VS_{15}	17.2	X	225.37772	199.67809	238.80027	6.07453	0.1321403	0.29690014	2.2253370	21	7 19.3	20.3
198977 2005 VD_{16}	15.3	X	130.36794	265.23530	245.39812	22.96227	0.2386174	0.28591759	2.2819641	21	7 17.6	19.4
198978 2005 VT_{29}	17.1	X	138.43495	0.99749	210.49074	3.56377	0.0334499	0.30234488	2.1985396	21	10 14.5	19.6
198979 2005 VF_{30}	18.1	X	78.54136	189.64660	98.16513	2.28073	0.1709571	0.30818858	2.1706594	21	11 28.5	21.1
198980 2005 VW_{30}	17.2	X	307.85585	229.67981	81.90288	4.34996	0.2108309	0.29078367	2.2564344	21	4 26.5	19.6
198981 2005 VK_{35}	17.0	X	336.05881	244.58102	315.70470	2.43822	0.1158247	0.27518427	2.3409222	21	1 17.2	19.5
198982 2005 VL_{44}	17.5	X	77.40526	21.32671	251.18927	4.16260	0.0926946	0.30772939	2.1728183	21	10 27.1	20.1
198983 2005 VY_{64}	17.4	X	47.79548	1.37685	141.84141	2.27700	0.0033516	0.27794514	2.3253946	21	2 23.4	20.2
198984 2005 VJ_{67}	16.8	X	306.68456	249.60128	327.51960	1.39411	0.1714878	0.27070447	2.3666776	21	—	—
198985 2005 VH_{73}	17.4	X	256.76455	252.17970	107.12108	3.24503	0.0856416	0.28767631	2.2726539	21	5 14.7	20.4
198986 2005 VB_{82}	17.1	X	300.48208	260.94254	119.28659	4.91563	0.1270843	0.29906247	2.2145973	21	8 14.2	19.0
198987 2005 VY_{86}	15.8	X	170.26615	183.97550	302.88116	8.49736	0.1316168	0.21927000	2.7236412	21	7 25.9	19.9
198988 2005 VN_{99}	16.7	X	303.34673	74.74048	293.82053	6.21573	0.1393330	0.29986023	2.2106677	21	7 27.9	18.6
198989 2005 VT_{101}	17.3	X	204.32426	269.55051	150.85457	3.10462	0.1406777	0.28825214	2.2696263	21	6 2.9	20.7
198990 2005 VS_{110}	17.6	X	63.51358	101.87597	210.09275	3.84894	0.1725965	0.31281493	2.1492045	21	12 14.9	20.4
198991 2005 VQ_{116}	16.9	X	331.02996	314.92462	352.05662	3.99873	0.0665173	0.29279222	2.2461031	21	6 20.8	19.2
198992 2005 VL_{124}	16.5	X	122.76849	122.01788	187.89333	0.97416	0.2088251	0.24193545	2.5507607	21	—	—
198993 Epoigny	17.7	X	193.34189	251.68692	240.10192	5.10540	0.0819905	0.29686973	2.2254890	21	8 28.5	20.7
198994 2005 WL_{18}	17.9	X	330.21871	261.33446	112.98320	0.05959	0.2016809	0.30366930	2.1921425	21	10 4.7	18.7
198995 2005 WM_{25}	17.7	X	279.99282	5.54129	325.29812	1.67317	0.2219136	0.28931646	2.2640566	21	4 13.9	21.0
198996 2005 WJ_{36}	17.4	X	22.21534	123.96986	107.07591	2.22700	0.0796465	0.28342846	2.2953051	21	5 25.1	19.7
198997 2005 WT_{36}	17.9	X	83.18186	86.33048	210.15562	1.75791	0.0521222	0.30748487	2.1739700	21	12 2.9	20.3
198998 2005 WO_{41}	17.8	X	108.00774	240.30764	50.33626	3.63030	0.0606469	0.31281335	2.1492117	21	12 27.3	20.5
198999 2005 WR_{44}	16.5	X	249.19983	349.28440	247.03923	7.47915	0.0691847	0.26335572	2.4105023	21	—	—
199000 2005 WW_{45}	16.8	X	290.96285	316.36114	64.18850	6.68823	0.1931762	0.29787888	2.2204598	21	7 16.3	19.1
199001 2005 WM_{51}	17.5	X	338.87279	307.91792	62.51253	3.35231	0.0193974	0.30113709	2.2044143	21	10 14.7	19.7
199002 2005 WO_{55}	16.9	X	276.43820	136.73581	272.61675	1.61544	0.1330457	0.29599636	2.2298645	21	8 15.5	19.1
199003 2005 WJ_{56}	18.1	X	27.82173	297.69179	288.05252	21.61575	0.1520384	1.04946427	0.9590125	21	—	—
199004 2005 WM_{66}	17.1	X	3.92773	324.51253	234.79719	3.76407	0.0322399	0.27620349	2.3351598	21	3 7.7	19.7
199005 2005 WH_{67}	17.0	X	252.62636	5.77955	226.68557	2.64165	0.0834635	0.26236718	2.4165533	21	—	—
199006 2005 WY_{68}	17.3	X	314.15435	16.36210	250.07124	3.26092	0.1229727	0.27954193	2.3165308	21	3 14.3	20.2
199007 2005 WH_{70}	17.1	X	255.28371	331.99732	252.52984	0.61562	0.1254238	0.26170287	2.4206411	21	—	—
199008 2005 WP_{72}	16.9	X	146.68076	201.42374	277.85436	4.34752	0.0725850	0.28638837	2.2794626	21	6 16.8	19.7
199009 2005 WU_{73}	17.3	X	280.02108	294.37177	57.99323	4.36833	0.1947965	0.29275630	2.2462868	21	5 17.9	20.0
199010 2005 WK_{80}	17.0	X	334.06244	16.63866	261.89933	2.64881	0.2657605	0.28571379	2.2830491	21	4 7.7	18.9
199011 2005 WZ_{86}	16.9	X	279.11996	206.71539	16.46267	0.92470	0.1395503	0.25908993	2.4368887	21	—	—
199012 2005 WS_{87}	16.9	X	235.60222	69.11349	268.43955	6.12019	0.0858757	0.27566799	2.3381829	21	3 17.0	20.2
199013 2005 WJ_{89}	16.6	X	157.36790	190.96885	257.11683	3.34963	0.0965574	0.28274020	2.2990284	21	5 18.8	19.6
199014 2005 WS_{89}	17.0	X	37.56119	214.05057	103.01538	5.50701	0.1521637	0.30779067	2.1725298	21	11 17.4	19.4
199015 2005 WF_{91}	16.5	X	302.82164	296.18413	259.44472	7.63544	0.0407470	0.26498304	2.4006232	21	—	—
199016 2005 WF_{92}	16.7	X	90.76997	276.24724	245.89327	4.81709	0.0953773	0.28313527	2.2968893	21	6 6.7	19.2
199017 2005 WS_{93}	17.3	X	123.21403	267.37638	260.40123	1.93673	0.0791862	0.28394134	2.2925402	21	7 26.4	20.1
199018 2005 WB_{94}	18.0	X	131.78314	61.80252	242.90910	1.81668	0.1407254	0.31932999	2.1198717	21	—	—
199019 2005 WG_{95}	16.6	X	34.92799	269.88980	242.93686	6.20758	0.0389732	0.27194413	2.3594798	21	2 16.3	19.4
199020 2005 WA_{98}	16.7	X	354.98954	255.30929	289.33660	1.70332	0.1194382	0.26644077	2.3918591	21	1 25.6	19.4
199021 2005 WB_{98}	16.6	X	339.01005	221.54764	77.14092	6.97499	0.1180554	0.28732070	2.2745288	21	6 16.7	18.4
199022 2005 WD_{99}	17.0	X	46.62500	348.02858	244.55351	6.02448	0.0744042	0.28819508	2.2699259	21	7 8.5	19.4
199023 2005 WR_{101}	17.5	X	310.62087	159.84914	241.03015	6.15031	0.0580262	0.30222764	2.1991082	21	10 10.3	19.8
199024 2005 WZ_{103}	17.4	X	180.26595	237.30500	195.46106	2.44916	0.1376646	0.28578465	2.2826717	21	5 25.8	20.9
199025 2005 WO_{104}	17.5	X	295.74465	161.87374	200.81052	3.99857	0.1847597	0.29620463	2.2288191	21	6 26.5	19.8
199026 2005 WC_{105}	17.1	X	145.37363	258.89771	172.46637	8.09255	0.1046630	0.28035927	2.3120263	21	4 14.8	20.2
199027 2005 WZ_{116}	15.4	X	91.67178	317.96072	238.11038	11.70177	0.2045761	0.22285711	2.6943358	21	8 5.3	19.6
199028 2005 WT_{117}	16.8	X	357.57526	342.28895	1.16397	4.20619	0.1769603	0.30432949	2.1889711	21	10 17.9	18.3
199029 2005 WX_{118}	16.9	X	104.51983	157.25203	66.09780	5.61958	0.0719895	0.29743998	2.2226436	21	9 23.4	19.7
199030 2005 WQ_{135}	17.8	X	204.55266	305.59294	101.67439	4.91792	0.1770994	0.28217010	2.3021240	21	5 16.8	21.4
199031 2005 WX_{136}	18.4	X	106.18253	251.66810	52.35602	1.42405	0.1951086	0.31882931	2.1220904	21	—	—
199032 2005 WT_{138}	17.1	X	207.01455	16.78873	260.07100	2.85459	0.1107843	0.26345139	2.4099186	21	—	—
199033 2005 WU_{139}	16.9	X	325.18074	173.24208	333.33362	0.49556	0.1204712	0.25703270	2.4498743	21	—	—
199034 2005 WU_{141}	15.3	X	18.28046	302.98813	291.12831	14.61118	0.1792090	0.21223488	2.7835021	21	5 30.8	18.3
199035 2005 WC_{143}	17.1	X	343.87006	195.65375	65.05337	3.80303	0.1507872	0.28427763	2.2907319	21	4 22.6	19.1
199036 2005 WY_{148}	16.7	X	21.37134	98.97460	284.34385	4.57195	0.0613448	0.31264978	2.1499612	21	—	—
199037 2005 WB_{149}	16.4	X	307.91302	288.25620	320.28524	6.01612	0.0834232	0.27381984	2.3486922	21	2 17.7	19.2
199038 2005 WC_{151}	17.3	X	219.25316	68.94435	63.23892	5.66627	0.1192919	0.29737921	2.2229463	21	10 1.6	20.3
199039 2005 WL_{154}	16.5	X	33.87082	211.55172	290.82338	3.03570	0.0986084	0.26811409	2.3818969	21	2 2.3	18.9
199040 2005 WS_{154}	17.3	X	154.79246	70.87974	76.60773	3.92080	0.0672065	0.29064293	2.2571627	21	8 7.4	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199041 2005 WY_{156}	17.4	X	149.94926	57.19719	40.98984	3.25137	0.0945187	0.28070149	2.3101467	21	5 23.9	20.6
199042 2005 WB_{157}	17.2	X	320.99293	204.62819	177.45936	1.56282	0.2032460	0.30212950	2.1995844	21	9 22.1	18.4
199043 2005 WH_{157}	17.0	X	242.34630	321.23132	97.22647	6.21265	0.1245280	0.28961472	2.2625019	21	7 14.0	20.1
199044 2005 WU_{157}	17.0	X	93.06205	231.91908	286.27662	2.13842	0.1706982	0.27671363	2.3322889	21	6 16.8	19.7
199045 2005 WA_{158}	17.3	X	313.62136	288.27901	89.89716	6.43047	0.1489390	0.29741751	2.2227555	21	9 6.4	19.1
199046 2005 WU_{158}	16.7	X	259.30763	145.22748	260.67864	4.52128	0.1682582	0.29374251	2.2412563	21	7 10.8	19.6
199047 2005 WB_{167}	17.6	X	281.02741	347.47059	325.04551	2.86266	0.1839172	0.28908800	2.2652493	21	3 25.8	20.9
199048 2005 WX_{174}	16.2	X	58.24933	213.11049	287.95615	4.64447	0.1224324	0.27075797	2.3663658	21	3 15.4	18.7
199049 2005 WN_{178}	15.3	X	28.32991	28.32325	331.01417	13.39477	0.1298625	0.23301408	2.6154592	21	12 10.4	18.9
199050 2005 WS_{185}	17.2	X	116.25921	182.16096	274.61633	0.99071	0.1506985	0.27566939	2.3381750	21	4 17.9	20.1
199051 2005 WF_{188}	16.7	X	66.79545	347.41042	325.62216	3.23739	0.0472031	0.24124010	2.5556599	21	11 20.1	20.2
199052 2005 WO_{188}	15.8	X	124.42449	53.02858	127.41215	5.02537	0.0501766	0.21643569	2.7473678	21	8 9.5	19.6
199053 2005 WA_{195}	17.6	X	182.30963	278.63311	206.60270	4.93359	0.1970453	0.29119549	2.2543065	21	8 3.9	21.4
199054 2005 WB_{195}	17.3	X	244.41939	241.43597	200.49717	4.88840	0.0464245	0.29735254	2.2230793	21	8 30.0	20.0
199055 2005 WU_{195}	17.4	X	207.09292	153.18521	290.00158	5.93100	0.0585627	0.28465113	2.2887276	21	7 11.5	20.4
199056 2005 WQ_{204}	17.5	X	217.05302	186.67492	288.47183	2.92117	0.1440174	0.29093332	2.2556605	21	8 28.9	20.6
199057 2005 XT_{1}	17.2	X	16.21919	287.68418	33.20118	2.03924	0.2150306	0.30340388	2.1934208	21	10 27.9	18.9
199058 2005 XC_{5}	16.6	X	323.50329	226.20337	132.43950	5.80117	0.1316693	0.29963768	2.2117622	21	8 24.8	18.1
199059 2005 XP_{6}	17.2	X	46.37811	112.30629	75.41954	4.82396	0.1128450	0.27941430	2.3172362	21	5 6.0	19.3
199060 2005 XR_{7}	16.4	X	304.16280	7.83423	256.57535	7.31726	0.0881636	0.27841022	2.3228042	21	3 1.1	19.5
199061 2005 XE_{13}	17.0	X	105.82538	15.58267	232.72381	5.00329	0.1758810	0.29989216	2.2105108	21	11 3.2	20.1
199062 2005 XD_{15}	16.9	X	293.40061	32.35763	200.84463	5.88627	0.1018092	0.26621035	2.3932391	21	1 8.9	20.2
199063 2005 XE_{16}	16.9	X	280.10303	123.70914	265.18011	4.55169	0.0787701	0.29328778	2.2435723	21	7 29.7	19.4
199064 2005 XP_{16}	17.4	X	250.64901	28.63770	92.39142	4.88838	0.0635401	0.30227046	2.1989005	21	11 5.8	19.8
199065 2005 XY_{19}	17.2	X	259.27012	354.19554	284.90354	2.04293	0.1464213	0.27312937	2.3526489	21	1 26.1	20.5
199066 2005 XA_{22}	16.4	X	239.55157	13.96402	285.55529	7.72241	0.1300725	0.27379582	2.3488296	21	1 31.7	20.0
199067 2005 XO_{32}	16.9	X	202.42847	315.50251	95.18701	4.28457	0.1422869	0.28514725	2.2860721	21	5 19.3	20.2
199068 2005 XM_{40}	16.2	X	45.27226	219.38114	292.85576	5.03337	0.0970604	0.26958199	2.3732426	21	3 6.7	18.8
199069 2005 XN_{41}	17.8	X	212.90113	316.02905	137.34387	3.01780	0.2024058	0.29230341	2.2486065	21	7 22.2	21.3
199070 2005 XX_{45}	16.6	X	223.63171	281.80380	306.69973	3.68168	0.1007282	0.25501403	2.4627859	21	—	—
199071 2005 XJ_{51}	16.5	X	139.98957	107.49812	317.19212	6.23513	0.0662625	0.27357973	2.3500662	21	3 21.2	19.6
199072 2005 XR_{56}	16.9	X	181.91264	229.65473	247.36488	6.19545	0.0547433	0.29161758	2.2521306	21	7 25.9	19.8
199073 2005 XV_{57}	15.3	X	220.80190	118.27123	164.98286	10.20160	0.0534095	0.18729488	3.0254184	21	1 9.8	19.9
199074 2005 XQ_{63}	17.3	X	174.34856	102.50111	64.93941	4.87525	0.0829365	0.29770623	2.2213182	21	9 29.8	20.3
199075 2005 XS_{65}	17.3	X	346.70183	342.86039	31.59765	4.74014	0.1362962	0.30550602	2.1833475	21	11 10.5	19.0
199076 2005 XX_{65}	16.6	X	180.29967	236.64617	247.28243	6.45972	0.0578097	0.29055868	2.2575991	21	8 2.1	19.7
199077 2005 XA_{68}	15.5	X	238.01829	112.86483	335.85247	15.17374	0.0591585	0.22230112	2.6988264	21	8 25.9	19.1
199078 2005 XB_{74}	17.0	X	165.47603	52.83519	51.52501	5.88966	0.1439555	0.28398191	2.2923219	21	6 21.8	20.5
199079 2005 XS_{77}	16.6	X	186.50929	297.99628	2.93361	3.27702	0.1245878	0.26490835	2.4010744	21	—	—
199080 2005 XC_{78}	17.1	X	250.67131	310.36147	82.28134	5.73516	0.1742293	0.28954623	2.2628587	21	6 11.4	20.3
199081 2005 XP_{79}	15.5	X	242.76684	250.07192	315.75087	3.46087	0.1185517	0.17697777	3.1418847	21	—	—
199082 2005 XM_{82}	16.9	X	97.49400	125.54975	61.93320	7.91089	0.0282606	0.29023540	2.2592752	21	7 13.9	19.7
199083 2005 XY_{91}	16.9	X	348.61415	28.69152	7.00105	6.29554	0.1189398	0.30962902	2.1639220	21	12 16.9	18.9
199084 2005 XN_{104}	15.4	X	209.76907	179.42035	114.42593	5.33285	0.0620524	0.19138128	2.9821976	21	1 10.8	19.8
199085 2005 XO_{104}	16.0	X	52.62153	19.69005	317.72990	11.82000	0.2441523	0.23815245	2.5777019	21	12 31.9	19.9
199086 2005 XS_{114}	16.4	X	80.08641	210.18497	85.42226	2.72759	0.0666218	0.23465027	2.6032867	21	11 17.1	19.9
199087 2005 XF_{115}	15.9	X	354.86652	24.22953	168.71673	4.07292	0.0472085	0.19531361	2.9420342	21	2 28.8	19.7
199088 2005 XX_{116}	18.1	X	288.33780	199.51278	150.43158	1.61473	0.2508149	0.29316510	2.2441982	21	5 17.2	20.8
199089 2005 YC_{7}	17.2	X	242.80116	101.06374	337.73930	6.54890	0.1145591	0.29366431	2.2416541	21	8 15.2	19.8
199090 2005 YO_{7}	17.4	X	65.04000	81.68161	61.58984	2.06481	0.1286817	0.27043413	2.3682546	21	4 5.1	19.8
199091 2005 YF_{10}	17.3	X	328.59940	297.28846	215.98212	1.32385	0.1372806	0.25809336	2.4431577	21	—	—
199092 2005 YZ_{11}	16.1	X	4.86013	2.51963	281.28581	5.20376	0.1672953	0.22494170	2.6776639	21	7 16.9	18.5
199093 2005 YX_{17}	17.0	X	42.88277	290.61593	308.92609	3.63574	0.1139311	0.28956623	2.2627545	21	7 20.4	19.1
199094 2005 YD_{22}	16.0	X	98.32056	179.35866	103.90844	9.18675	0.1046414	0.23852908	2.5749877	21	11 28.2	19.8
199095 2005 YO_{23}	17.2	X	251.52640	241.53534	107.16488	12.85680	0.2431437	0.28250088	2.3003267	21	4 15.5	21.2
199096 2005 YF_{24}	16.9	X	226.34333	135.96732	117.95026	2.70944	0.0884457	0.25562863	2.4588369	21	—	—
199097 2005 YU_{27}	17.1	X	193.18982	262.54460	80.06000	3.22595	0.2039718	0.26884716	2.3775651	21	2 15.9	20.9
199098 2005 YN_{28}	16.2	X	116.33333	166.03002	102.42006	4.60794	0.1503034	0.23695669	2.5863665	21	11 29.7	20.3
199099 2005 YH_{31}	17.6	X	153.04244	357.10964	118.01429	0.62985	0.1526601	0.28220249	2.3019479	21	6 24.2	21.1
199100 2005 YL_{31}	17.6	X	237.33162	112.59681	278.84312	1.45797	0.2071567	0.28662083	2.2782299	21	5 23.6	21.2
199101 2005 YR_{31}	17.3	X	261.33539	319.27507	104.27624	5.91136	0.1378042	0.29357874	2.2420897	21	8 15.2	19.9
199102 2005 YO_{34}	16.7	X	78.89415	305.58832	138.34234	3.42777	0.0252378	0.26314771	2.4117724	21	1 21.1	19.6
199103 2005 YY_{35}	16.5	X	130.27097	13.61557	113.01291	5.74536	0.0850882	0.28002234	2.3138805	21	6 8.5	19.5
199104 2005 YF_{43}	17.2	X	230.10672	268.50818	118.58277	6.99555	0.2012082	0.28417299	2.2912942	21	5 14.2	20.9
199105 2005 YM_{43}	17.1	X	225.05888	277.16515	119.11903	7.57418	0.1224813	0.28329641	2.2960183	21	5 25.8	20.5
199106 2005 YP_{46}	17.1	X	313.40373	250.25244	124.72601	5.79165	0.1006935	0.29514682	2.2341413	21	9 4.1	19.1
199107 2005 YH_{47}	17.0	X	101.63536	357.05728	19.86113	1.35157	0.1937161	0.25886862	2.4382774	21	—	—
199108 2005 YO_{47}	16.8	X	86.66144	169.90418	351.38928	2.47346	0.1634931	0.27684461	2.3315532	21	6 10.8	19.6
199109 2005 YJ_{48}	17.0	X	345.87111	114.01525	98.90128	3.37036	0.1335796	0.26622263	2.3931655	21	2 19.3	19.5
199110 2005 YJ_{49}	17.0	X	118.99681	156.30505	280.42644	5.94007	0.1739909	0.27096967	2.3651331	21	3 25.9	20.3
199111 2005 YN_{49}	17.3	X	44.89492	20.42736	199.16765	1.01049	0.1223829	0.27827037	2.3235824	21	6 23.2	19.6
199112 2005 YN_{50}	16.9	X	177.59587	189.07658	150.21924	2.68849	0.2164561	0.26689785	2.3891275	21	1 29.1	20.6
199113 2005 YO_{56}	16.6	X	320.29180	89.20553	87.03724	3.08149	0.1470052	0.25599378	2.4564982	21	—	—
199114 2005 YG_{58}	15.2	X	177.20405	321.91928	288.57797	15.41750	0.1176242	0.18072708	3.0982793	21	12 25.9	20.1
199115 2005 YV_{60}	16.8	X	149.72018	292.40527	287.07299	2.56932	0.0800070	0.24184704	2.5513823	21	10 30.6	20.6
199116 2005 YZ_{60}	17.3	X	340.98763	20.19231	257.45174	2.05517	0.1388121	0.28793374	2.2712992	21	5 13.9	19.3
199117 2005 YC_{67}	16.3	X	179.79590	171.63008	75.72743	3.41195	0.1431370	0.24452146	2.5327446	21	—	—
199118 2005 YV_{75}	17.0	X	114.33082	210.93998	47.48216	3.10715	0.1625589	0.23663726	2.5886935	21	11 15.6	21.0
199119 2005 YF_{77}	17.0	X	17.30732	210.00743	83.57479	6.61461	0.1304299	0.29089791	2.2558436	21	9 3.4	19.1
199120 2005 YX_{78}	16.5	X	76.12743	342.71093	297.37634	3.04295	0.1934675	0.23423592	2.6063559	21	11 6.8	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199121 2005 YG_{82}	17.1	X	34.78756	45.21049	126.84005	2.74688	0.1278927	0.26908674	2.3761537	21	3 22.3	19.2
199122 2005 YT_{82}	17.0	X	267.21070	83.03544	140.79219	1.79609	0.1379231	0.25458149	2.4655747	21	—	—
199123 2005 YW_{83}	17.3	X	153.73947	182.91628	170.56797	2.14076	0.2082954	0.26447437	2.4037003	21	1 24.1	20.9
199124 2005 YQ_{90}	16.8	X	37.47397	296.49531	279.21408	5.21493	0.0631741	0.27711504	2.3300361	21	5 26.7	19.2
199125 2005 YJ_{92}	16.6	X	15.97371	217.04283	124.93005	4.83316	0.0497947	0.23501376	2.6006017	21	10 23.1	19.8
199126 2005 YA_{94}	16.7	X	78.00818	115.36252	331.88735	7.48455	0.0990335	0.26480000	2.4017293	21	2 2.3	19.3
199127 2005 YF_{94}	16.5	X	37.66590	158.66214	351.56818	5.11522	0.1661684	0.26595993	2.3947412	21	2 23.4	18.5
199128 2005 YG_{94}	16.9	X	84.05587	129.20097	348.23704	4.99518	0.0822325	0.27094736	2.3652630	21	3 21.2	19.5
199129 2005 YN_{94}	17.3	X	208.27150	98.11884	336.13241	1.32816	0.1291848	0.28835489	2.2690871	21	6 26.1	20.4
199130 2005 YJ_{95}	15.4	X	51.27035	349.92970	281.41285	13.11072	0.1050522	0.22682359	2.6628329	21	9 5.3	19.1
199131 2005 YC_{96}	17.4	X	283.88833	39.90471	20.02985	1.97519	0.1020363	0.29627601	2.2284611	21	9 19.9	19.6
199132 2005 YO_{96}	17.3	X	290.70741	318.13147	57.93389	4.05891	0.2145797	0.29477754	2.2360068	21	7 4.1	19.8
199133 2005 YT_{98}	17.2	X	189.79670	111.33488	317.45587	5.18189	0.1774896	0.28314673	2.2968274	21	5 29.0	20.8
199134 2005 YN_{100}	16.9	X	167.43337	242.59048	102.48887	5.96008	0.2088830	0.26375405	2.4080747	21	1 28.0	20.5
199135 2005 YE_{107}	17.5	X	172.81411	234.78515	286.60824	0.69110	0.1358020	0.29266650	2.2467463	21	9 14.6	20.6
199136 2005 YU_{107}	17.4	X	160.78732	113.97600	148.15929	2.81502	0.1320234	0.24521911	2.5279385	21	—	—
199137 2005 YN_{108}	17.3	X	75.01082	317.04389	179.65505	1.58215	0.1017093	0.27181851	2.3602067	21	4 7.5	19.6
199138 2005 YX_{112}	17.2	X	245.01736	20.63090	228.36735	0.82636	0.1235340	0.25767611	2.4457944	21	—	—
199139 2005 YN_{116}	16.9	X	210.45614	315.30629	99.92313	8.26536	0.0938848	0.28229743	2.3014317	21	6 4.9	20.2
199140 2005 YA_{117}	16.6	X	8.00228	148.62054	14.11468	1.17478	0.1104192	0.26256871	2.4153166	21	1 18.9	19.0
199141 2005 YJ_{121}	17.2	X	359.71743	329.37769	59.71803	0.73259	0.0980484	0.30662497	2.1780326	21	12 22.6	19.0
199142 2005 YB_{126}	16.7	X	282.51144	213.58098	48.04486	3.27489	0.1825255	0.26578750	2.3957768	21	1 26.5	20.2
199143 2005 YC_{126}	17.0	X	329.34795	199.69414	86.30061	6.90058	0.1038585	0.28033828	2.3121417	21	5 13.4	19.4
199144 2005 YL_{127}	17.0	X	233.40289	106.88439	280.83492	9.80986	0.1253456	0.28809236	2.2704654	21	5 19.5	20.3
199145 2005 YY_{128}	18.2	X	63.31391	314.78760	300.30953	3.77108	0.7315524	0.46523258	1.6495139	21	11 25.1	21.8
199146 2005 YQ_{136}	17.2	X	287.24387	58.12738	310.04163	4.81516	0.2415721	0.29225972	2.2488306	21	6 11.8	20.0
199147 2005 YV_{136}	17.2	X	231.98772	25.10908	315.09062	5.28351	0.2429665	0.27657460	2.3330705	21	3 12.1	21.2
199148 2005 YG_{143}	16.7	X	155.04476	52.61522	326.43099	5.30070	0.1247798	0.26596108	2.3947342	21	2 17.8	19.9
199149 2005 YV_{145}	17.2	X	206.74496	86.47869	341.15519	5.39791	0.0489440	0.28463026	2.2888395	21	6 19.2	20.2
199150 2005 YJ_{150}	17.1	X	324.88610	308.76320	84.05554	7.05026	0.1343446	0.30041651	2.2079379	21	10 27.7	18.8
199151 2005 YC_{154}	17.2	X	262.71232	358.15590	61.68023	3.00178	0.0781080	0.29312531	2.2444012	21	8 21.9	19.8
199152 2005 YG_{156}	17.6	X	337.02308	270.61001	71.67847	1.45479	0.1323673	0.29716923	2.2239934	21	8 26.4	19.1
199153 2005 YP_{159}	17.2	X	276.33878	81.62886	219.55734	3.57541	0.0741387	0.27482742	2.3429481	21	3 20.5	20.2
199154 2005 YV_{164}	16.7	X	95.37407	106.20798	321.81906	7.87208	0.0876771	0.26528665	2.3987912	21	1 31.6	19.4
199155 2005 YH_{166}	16.6	X	126.75003	31.26029	206.78381	3.37276	0.0844031	0.23488532	2.6015498	21	10 29.8	20.4
199156 2005 YL_{170}	17.0	X	22.35618	313.71881	156.47136	4.12784	0.0523973	0.25838824	2.4412985	21	—	—
199157 2005 YN_{170}	16.9	X	81.21377	116.74140	200.66182	3.32086	0.0177254	0.24190448	2.5509784	21	12 11.2	20.4
199158 2005 YG_{171}	17.1	X	112.02759	6.93560	154.65077	3.29206	0.1020661	0.28203931	2.3028357	21	7 6.1	20.0
199159 2005 YW_{171}	14.9	X	250.87902	300.05539	271.86627	15.03653	0.1649993	0.18501731	3.0501964	21	—	—
199160 2005 YD_{174}	16.0	X	2.73531	262.55617	154.27217	10.50898	0.1767252	0.24767415	2.5112056	21	—	—
199161 2005 YV_{176}	17.6	X	73.56020	146.76908	41.98655	0.88256	0.0831428	0.27942361	2.3171847	21	6 18.0	20.1
199162 2005 YC_{178}	15.9	X	105.20233	347.20446	296.65639	12.09831	0.2357206	0.23864723	2.5741377	21	12 12.4	20.3
199163 2005 YN_{179}	16.9	X	332.78941	49.43300	160.06845	3.96757	0.1360795	0.26395450	2.4068554	21	1 23.7	19.9
199164 2005 YB_{180}	16.7	X	127.08200	284.84492	166.37330	4.53497	0.0774493	0.27428704	2.3460244	21	4 15.7	19.7
199165 2005 YK_{180}	17.0	X	290.34356	231.07597	159.56912	4.45356	0.2041577	0.29642789	2.2276999	21	7 27.2	19.1
199166 2005 YS_{180}	16.8	X	45.64646	154.97855	4.34583	7.97419	0.0902016	0.26959232	2.3731819	21	3 20.7	19.1
199167 2005 YH_{182}	15.9	X	179.09384	340.88573	255.76896	9.80943	0.1000165	0.24412401	2.5354929	21	12 22.3	19.5
199168 2005 YP_{184}	17.2	X	86.69410	25.75900	125.44490	3.05830	0.1341466	0.27546025	2.3393584	21	5 23.2	19.9
199169 2005 YZ_{200}	16.3	X	18.18990	8.50555	302.31587	11.23903	0.0457276	0.22789697	2.6544651	21	9 4.9	19.8
199170 2005 YK_{202}	15.4	X	215.15288	313.86572	285.09575	8.49918	0.2534315	0.18459083	3.0548928	21	—	—
199171 2005 YD_{204}	16.8	X	139.35773	23.96016	327.74570	0.43783	0.1995730	0.25924335	2.4359271	21	1 7.1	19.9
199172 2005 YH_{204}	17.0	X	132.47176	318.60091	120.98079	3.23795	0.1589706	0.27300939	2.3533381	21	4 17.7	20.2
199173 2005 YU_{211}	16.8	X	285.23572	190.38241	57.45249	5.44710	0.0040970	0.26421281	2.4052865	21	2 2.9	19.9
199174 2005 YR_{212}	16.8	X	7.88450	105.25493	70.96353	4.96330	0.1454635	0.26586112	2.3953344	21	2 3.5	19.2
199175 2005 YN_{213}	16.5	X	65.72153	62.08465	17.10031	7.10725	0.0789055	0.26179493	2.4200735	21	—	—
199176 2005 YW_{216}	17.0	X	171.34101	217.75016	313.05537	5.52604	0.1041795	0.29252127	2.2474899	21	9 24.3	20.2
199177 2005 YU_{219}	15.6	X	278.66181	176.08456	298.20551	10.90599	0.1676599	0.23570027	2.5955496	21	11 3.8	18.8
199178 2005 YY_{220}	16.8	X	233.17253	192.80504	282.08208	6.27961	0.0653736	0.29487703	2.2355038	21	9 25.7	19.6
199179 2005 YD_{226}	17.0	X	293.67262	242.76605	266.31701	2.28272	0.0473111	0.25313009	2.4749905	21	—	—
199180 2005 YQ_{227}	17.1	X	21.09407	103.14939	196.72387	2.06755	0.0713925	0.22809597	2.6529210	21	9 1.3	20.4
199181 2005 YA_{235}	16.7	X	283.98590	234.72513	358.56108	2.06948	0.1307634	0.26068951	2.4269101	21	—	—
199182 2005 YD_{246}	17.2	X	329.66795	228.47187	215.25000	3.18024	0.0517055	0.24330201	2.5412004	21	12 29.6	20.3
199183 2005 YU_{256}	17.5	X	65.11232	292.92246	157.70226	4.38409	0.1787702	0.26281939	2.4137805	21	1 21.8	19.5
199184 2005 YS_{263}	16.7	X	198.45606	287.64322	44.14458	4.41600	0.1747724	0.26729294	2.3867727	21	2 6.9	20.5
199185 2005 YU_{264}	16.9	X	97.62900	316.42612	324.27342	3.57372	0.2002043	0.23552351	2.5968481	21	11 29.1	21.1
199186 2005 YF_{267}	16.4	X	121.18900	184.57916	91.13302	5.46829	0.1288918	0.23748195	2.5825514	21	12 11.7	20.5
199187 2005 YP_{269}	16.7	X	299.13224	3.91437	139.22999	6.25387	0.1329642	0.24341405	2.5404205	21	—	—
199188 2005 YY_{269}	15.8	X	326.18033	275.25712	287.49652	3.69271	0.0970476	0.19713064	2.9239277	21	1 26.6	19.5
199189 2005 YL_{270}	16.9	X	216.60501	52.22567	309.26061	7.16257	0.1639144	0.27539463	2.3397300	21	3 25.7	20.8
199190 2005 YF_{273}	17.5	X	234.14057	275.58542	142.69500	6.90617	0.1755111	0.28830354	2.2693565	21	6 28.4	20.8
199191 2005 YQ_{282}	17.1	X	86.79222	117.92454	292.68216	2.39726	0.1757969	0.26014232	2.4303120	21	1 6.5	19.2
199192 2005 YK_{290}	15.5	X	26.52598	282.99584	312.91732	12.43276	0.1291751	0.21392011	2.7688641	21	6 16.8	18.8
199193 2006 AM	16.0	X	32.48893	332.98028	183.66421	9.56856	0.1815339	0.26584815	2.3954124	21	2 18.1	17.9
199194 Calcatreppola	17.2	X	260.44128	329.10549	44.29774	4.17426	0.1488134	0.28743659	2.2739174	21	5 29.6	20.2
199195 2006 AD_{1}	16.6	X	67.40749	149.30813	151.72396	4.28512	0.1325452	0.23653195	2.5894618	21	11 18.6	20.2
199196 2006 AZ_{2}	15.2	X	14.11280	289.68502	119.22273	29.26226	0.1098335	0.24076414	2.5590269	21	—	—
199197 2006 AX_{3}	16.7	X	33.11012	190.89326	353.98168	3.20696	0.1820971	0.26938886	2.3743767	21	4 7.9	18.3
199198 2006 AC_{5}	17.8	X	299.01659	61.08179	19.48732	5.55101	0.1778057	0.30374226	2.1917915	21	11 10.8	19.4
199199 2006 AP_{5}	15.0	X	44.00309	280.64776	336.78325	26.00448	0.1324379	0.21974420	2.7197215	21	8 21.5	18.3
199200 2006 AE_{6}	15.3	X	37.24291	357.42643	277.70572	12.74488	0.0966269	0.22214013	2.7001301	21	8 20.1	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199201 2006 AP_{10}	17.0	X	202.54773	24.51462	63.98559	3.88698	0.1513373	0.28634803	2.2796766	21	7 8.7	20.3
199202 2006 AE_{11}	17.3	X	331.63848	303.52038	288.49198	2.22443	0.0241054	0.26976310	2.3721802	21	3 9.3	20.1
199203 2006 AZ_{17}	16.6	X	188.57401	45.61984	51.25636	5.53735	0.1845017	0.28462757	2.2888539	21	7 5.4	20.2
199204 2006 AT_{18}	15.2	X	216.57305	333.95601	270.89055	3.63071	0.1709316	0.18432566	3.0578219	21	—	—
199205 2006 AB_{19}	16.7	X	233.91933	294.36878	174.38940	2.15108	0.0332914	0.23013808	2.6372040	21	9 19.9	20.3
199206 2006 AN_{19}	16.0	X	233.47065	173.98584	325.99285	8.72862	0.1998258	0.23131070	2.6282836	21	10 4.5	20.0
199207 2006 AB_{20}	16.4	X	114.25581	81.94396	75.73406	7.56115	0.0426491	0.28230878	2.3013700	21	6 25.1	19.1
199208 2006 AX_{20}	17.5	X	273.39653	29.24323	8.06872	5.16726	0.1757600	0.29251977	2.2474976	21	7 18.1	20.2
199209 2006 AR_{21}	16.0	X	33.98807	96.07539	53.28307	7.26363	0.0672697	0.26459636	2.4029614	21	2 18.4	18.7
199210 2006 AS_{21}	15.3	X	58.84883	240.41164	340.51330	13.04530	0.1360432	0.21539669	2.7561956	21	7 24.6	18.9
199211 2006 AW_{21}	17.0	X	88.78754	70.36475	16.40794	6.82119	0.0898465	0.26465733	2.4025924	21	2 19.2	19.7
199212 2006 AH_{22}	16.8	X	172.08645	45.54226	66.61152	9.25386	0.1935057	0.28326466	2.2961898	21	7 10.6	20.5
199213 2006 AK_{22}	16.4	X	31.72593	126.95299	55.35036	11.10331	0.0955949	0.26739810	2.3861468	21	4 4.9	19.0
199214 2006 AY_{27}	16.3	X	216.79350	350.54041	154.41451	3.42398	0.1326589	0.22703277	2.6611969	21	10 5.1	20.1
199215 2006 AF_{29}	16.8	X	47.73798	142.86904	321.53731	1.87004	0.1653158	0.26032328	2.4291857	21	1 6.3	18.6
199216 2006 AJ_{29}	15.9	X	311.84202	335.83171	155.13271	11.30949	0.1179173	0.24204027	2.5500242	21	—	—
199217 2006 AO_{30}	16.9	X	119.32171	110.91491	47.80646	2.69821	0.0991068	0.28070835	2.3101091	21	7 11.7	19.9
199218 2006 AL_{32}	16.3	X	355.99467	76.34415	94.91971	5.20305	0.0917936	0.26089359	2.4256443	21	1 14.5	19.1
199219 2006 AO_{37}	16.8	X	122.78371	188.96090	118.04803	5.80188	0.1497010	0.24474860	2.5311774	21	—	—
199220 2006 AD_{41}	16.0	X	344.72931	304.01327	320.81396	11.20496	0.1328173	0.21085229	2.7956567	21	5 5.5	19.6
199221 2006 AD_{42}	17.4	X	226.77565	95.65079	286.76072	5.73413	0.1095457	0.27958747	2.3162792	21	5 6.0	20.7
199222 2006 AR_{42}	17.5	X	70.43427	245.74835	205.10815	1.55681	0.1433051	0.26291580	2.4131904	21	1 29.0	19.7
199223 2006 AO_{43}	15.5	X	253.28660	256.31179	326.45274	8.80449	0.1927946	0.18037319	3.1023304	21	—	—
199224 2006 AF_{45}	15.5	X	87.40706	209.63444	65.05232	15.75965	0.1117442	0.22960953	2.6412496	21	11 6.8	19.4
199225 2006 AC_{47}	16.6	X	21.42962	123.18797	73.76875	6.91869	0.0521537	0.27099248	2.3650004	21	4 6.3	19.3
199226 2006 AL_{48}	15.2	X	204.26883	43.04979	319.10022	14.25432	0.1575161	0.20321620	2.8652587	21	3 19.3	20.1
199227 2006 AO_{49}	17.3	X	329.65253	271.38312	76.83755	5.41236	0.1087660	0.29374454	2.2412459	21	8 23.7	19.3
199228 2006 AN_{52}	17.1	X	145.92049	264.78199	233.80271	2.17046	0.1728575	0.28209931	2.3025092	21	7 19.2	20.6
199229 2006 AY_{58}	15.9	X	142.49217	142.08786	110.86892	4.02167	0.2731045	0.23700076	2.5860459	21	12 4.8	20.5
199230 2006 AV_{65}	16.9	X	84.75600	111.21378	106.57428	5.07570	0.0863006	0.28445019	2.2898053	21	8 19.1	19.6
199231 2006 AB_{66}	15.6	X	86.66733	195.15031	171.22441	10.20049	0.1047129	0.24281965	2.5445647	21	—	—
199232 2006 AF_{68}	17.2	X	143.88033	223.79977	151.82371	1.63862	0.1952932	0.26446782	2.4037400	21	2 9.6	20.6
199233 2006 AT_{68}	17.1	X	10.66598	319.44769	281.62656	2.31677	0.1680840	0.27418706	2.3465946	21	5 18.3	18.7
199234 2006 AC_{70}	17.5	X	217.22805	309.18622	155.72290	2.29904	0.1045783	0.29064666	2.2571435	21	8 19.9	20.5
199235 2006 AU_{72}	16.2	X	50.49009	167.89833	138.27731	8.63240	0.1986464	0.23186696	2.6240784	21	11 15.0	19.8
199236 2006 AA_{73}	16.6	X	305.70458	305.32342	295.62076	4.90599	0.1005015	0.26714125	2.3876761	21	2 3.2	19.8
199237 2006 AJ_{74}	16.5	X	50.40926	154.14659	343.01434	4.51312	0.1748808	0.26501476	2.4004316	21	3 2.9	18.4
199238 2006 AM_{77}	16.0	X	322.16737	176.69459	134.05915	6.29079	0.1117838	0.21746216	2.7387155	21	6 9.0	19.3
199239 2006 AQ_{77}	17.3	X	287.28749	151.74328	183.32449	1.68391	0.2174225	0.28239349	2.3009098	21	4 30.6	20.2
199240 2006 AW_{84}	17.1	X	60.95916	97.80415	38.92168	2.17586	0.1404227	0.26637885	2.3922298	21	3 20.8	19.2
199241 2006 AC_{85}	15.9	X	148.92474	176.91577	52.06832	11.18785	0.1939288	0.23040635	2.6351566	21	11 10.8	20.4
199242 2006 AK_{86}	16.1	X	5.78589	132.05155	26.12612	15.30762	0.0760267	0.26040756	2.4286615	21	1 17.5	19.3
199243 2006 AO_{90}	17.0	X	153.19732	151.24742	200.41647	0.58685	0.1952773	0.26416965	2.4055484	21	1 20.2	20.4
199244 2006 AK_{91}	17.2	X	141.24393	191.64243	135.80239	7.02431	0.1294737	0.25499831	2.4628871	21	—	—
199245 2006 AR_{92}	16.9	X	134.10492	306.31659	310.54624	2.50207	0.0372325	0.23746198	2.5826962	21	11 28.5	20.5
199246 2006 AJ_{97}	16.0	X	156.29494	184.89291	24.20863	10.34534	0.0605602	0.23149478	2.6268901	21	10 23.8	19.6
199247 2006 AE_{98}	15.7	X	178.36495	107.36380	112.55339	0.27908	0.1410016	0.17166131	3.2064251	21	11 19.1	20.9
199248 2006 AM_{100}	15.6	X	343.56642	131.82530	150.03564	5.59691	0.0133279	0.21568354	2.7537513	21	6 11.2	19.3
199249 2006 AZ_{101}	15.1	X	159.30805	312.99577	317.58496	9.74991	0.1531077	0.17571664	3.1568997	21	12 31.3	20.4
199250 2006 AE_{102}	17.2	X	83.14402	195.92139	192.39340	1.99339	0.1725129	0.25620678	2.4551365	21	—	—
199251 2006 BZ	15.9	X	91.14856	333.41286	121.07085	27.20420	0.1413428	0.27101498	2.3648695	21	3 18.3	19.2
199252 2006 BF_{2}	17.0	X	231.49884	279.73424	129.58926	7.34146	0.0837639	0.28364990	2.2941103	21	6 22.3	20.1
199253 2006 BN_{2}	16.6	X	116.06062	9.55025	122.05204	5.71460	0.1770777	0.27527908	2.3403846	21	6 9.7	19.9
199254 2006 BU_{2}	16.1	X	258.03539	56.71974	66.08490	4.34571	0.0401353	0.23500939	2.6006340	21	11 9.3	19.5
199255 2006 BB_{4}	16.1	X	188.24315	110.72588	133.66190	1.69075	0.1649647	0.17942465	3.1132547	21	12 25.3	21.1
199256 2006 BQ_{5}	16.0	X	82.84333	337.79432	138.75829	2.84876	0.0176656	0.20296378	2.8676338	21	3 21.2	19.8
199257 2006 BW_{9}	16.3	X	0.27530	187.86609	123.64748	3.89730	0.0756836	0.22348197	2.6893112	21	8 16.2	19.3
199258 2006 BN_{11}	15.7	X	72.97352	309.96076	319.27707	13.91849	0.0842449	0.22527642	2.6750109	21	9 28.7	19.6
199259 2006 BF_{12}	16.8	X	159.68427	69.27255	175.67281	0.62704	0.0162933	0.24261331	2.5460073	21	12 15.9	20.1
199260 2006 BJ_{12}	17.1	X	251.68763	244.10468	220.46183	4.25650	0.0948511	0.29736269	2.2230287	21	10 5.4	19.5
199261 2006 BN_{12}	15.7	X	334.58730	226.44496	133.73413	9.48286	0.0551203	0.22331184	2.6906769	21	9 14.5	19.0
199262 2006 BB_{13}	16.4	X	63.43031	324.12779	136.93040	6.85697	0.0758660	0.26118863	2.4238173	21	1 26.0	18.8
199263 2006 BB_{14}	16.9	X	64.69359	199.82507	305.99961	4.49599	0.1325799	0.26961044	2.3730756	21	4 5.2	19.4
199264 2006 BC_{14}	17.0	X	43.96633	146.78575	315.64933	1.31674	0.0956536	0.25979274	2.4324917	21	—	—
199265 2006 BT_{15}	16.6	X	334.46571	24.61570	291.88082	1.09006	0.1315689	0.22196372	2.7015607	21	7 5.7	19.3
199266 2006 BC_{20}	15.7	X	170.71831	353.05418	131.30680	9.66575	0.0935384	0.21951482	2.7216158	21	7 22.5	19.9
199267 2006 BW_{20}	17.1	X	30.22060	256.57447	228.09713	0.60717	0.1454291	0.25985694	2.4320911	21	1 1.2	19.3
199268 2006 BB_{22}	16.4	X	97.00145	277.09199	134.49297	7.81627	0.1381479	0.26075571	2.4264993	21	1 18.9	19.0
199269 2006 BZ_{22}	15.2	X	212.19813	129.39121	152.90257	10.04971	0.1003538	0.18488640	3.0516360	21	—	—
199270 2006 BC_{29}	16.0	X	161.49195	314.22662	146.71726	9.97913	0.1147175	0.21546832	2.7555847	21	6 14.5	20.4
199271 2006 BU_{30}	16.0	X	219.32547	47.18573	343.94204	6.04481	0.0661968	0.21320038	2.7750921	21	5 15.7	20.2
199272 2006 BS_{31}	16.2	X	88.77604	326.39987	359.70877	4.97118	0.1135323	0.24020388	2.5630045	21	—	—
199273 2006 BV_{31}	17.1	X	115.17284	60.69789	9.17737	2.53759	0.1750680	0.26677147	2.3898820	21	3 16.4	20.2
199274 2006 BW_{31}	16.7	X	307.49160	111.92342	113.77333	2.57434	0.1442816	0.25848561	2.4406854	21	1 12.9	20.0
199275 2006 BU_{32}	15.9	X	338.24742	231.76812	126.60308	4.45870	0.1048037	0.22458381	2.6805079	21	9 15.9	18.8
199276 2006 BY_{33}	16.0	X	100.27689	288.13772	138.68308	2.72990	0.0545351	0.19479729	2.9472305	21	2 14.7	20.1
199277 2006 BA_{34}	15.4	X	28.00079	153.69706	337.33261	10.48700	0.0317280	0.19243963	2.9712535	21	1 30.8	19.4
199278 2006 BV_{37}	16.2	X	243.67478	179.39421	65.85390	1.06409	0.1375831	0.18869759	3.0104066	21	—	—
199279 2006 BN_{40}	15.9	X	187.37560	297.78353	153.05208	5.97342	0.0322747	0.21406060	2.7676524	21	6 28.0	19.8
199280 2006 BE_{44}	15.5	X	268.95397	86.07963	152.26251	10.94638	0.0646375	0.18983090	2.9984130	21	1 7.5	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199281 2006 BU_{44}	15.8	X	184.91184	165.09906	143.48295	4.21922	0.1681550	0.18430257	3.0580773	21	1 8.4	20.8
199282 2006 BS_{45}	16.1	X	291.53531	14.05251	323.61273	4.89642	0.0624039	0.21270098	2.7794341	21	6 6.5	19.8
199283 2006 BW_{46}	16.2	X	187.70444	327.30705	306.72688	3.15874	0.1369104	0.24520934	2.5280057	21	—	—
199284 2006 BB_{47}	16.8	X	49.69001	149.25281	329.01989	1.85785	0.1402411	0.26156883	2.4214679	21	1 30.5	18.9
199285 2006 BP_{53}	17.3	X	103.11895	12.33552	125.16952	2.71931	0.1186840	0.27275128	2.3548226	21	5 24.4	20.3
199286 2006 BC_{54}	17.1	X	110.37925	114.22925	337.22532	1.85239	0.1651055	0.26734572	2.3864585	21	4 5.9	20.2
199287 2006 BX_{54}	16.7	X	84.70620	112.21374	191.82029	3.07000	0.0681947	0.23646272	2.5899672	21	12 3.6	20.2
199288 2006 BX_{56}	17.8	X	233.25496	57.54163	313.34426	0.98567	0.1877950	0.27949199	2.3168067	21	4 24.2	21.5
199289 2006 BO_{57}	16.1	X	330.24303	345.30526	336.53838	5.08286	0.0887085	0.21991933	2.7182775	21	7 11.1	19.3
199290 2006 BQ_{58}	15.9	X	146.75700	220.83758	288.79399	3.86988	0.1021896	0.21830755	2.7316405	21	7 29.5	20.0
199291 2006 BB_{60}	16.3	X	63.40115	260.37370	338.45388	7.35400	0.1547933	0.21552016	2.7551428	21	8 24.5	19.7
199292 2006 BD_{63}	15.7	X	223.82855	273.48813	279.67197	11.46693	0.1151508	0.23765342	2.5813090	21	12 15.3	19.2
199293 2006 BC_{66}	16.5	X	14.88172	239.93834	83.31430	3.32278	0.1181906	0.22819123	2.6521825	21	10 1.9	19.5
199294 2006 BN_{68}	16.8	X	275.58446	217.99959	31.23737	1.65931	0.1535561	0.25847331	2.4407629	21	1 7.5	20.3
199295 2006 BQ_{68}	16.8	X	333.29033	238.16773	56.44676	1.30009	0.0330207	0.21564324	2.7540944	21	6 11.8	20.4
199296 2006 BA_{76}	16.5	X	317.89909	325.84651	4.02756	4.96307	0.1091953	0.21919146	2.7242919	21	6 29.1	19.8
199297 2006 BB_{79}	17.2	X	176.68158	78.86567	48.52221	3.20034	0.1090399	0.28350580	2.2948876	21	8 5.3	20.4
199298 2006 BL_{79}	15.6	X	167.96224	253.00649	35.54554	5.28731	0.1662181	0.17788724	3.1311667	21	—	—
199299 2006 BV_{79}	16.3	X	4.50006	300.79752	76.44576	4.47072	0.1449650	0.23397292	2.6083087	21	12 1.2	19.2
199300 2006 BB_{80}	15.6	X	1.95824	300.65128	9.21411	8.30692	0.0336182	0.21883856	2.7272198	21	8 17.6	19.1
199301 2006 BC_{82}	17.0	X	192.38860	67.43898	346.91410	8.63096	0.2309468	0.27739719	2.3284559	21	5 10.8	21.1
199302 2006 BD_{82}	15.4	X	139.77063	156.79305	126.57521	7.31939	0.1494719	0.17227004	3.1988673	21	12 27.8	20.6
199303 2006 BM_{83}	17.5	X	221.17765	295.00776	61.57757	2.19649	0.2077333	0.27519120	2.3408829	21	3 27.4	21.2
199304 2006 BV_{83}	16.8	X	270.48804	271.56612	4.09652	2.48299	0.1684632	0.26328384	2.4109410	21	2 2.6	20.5
199305 2006 BR_{86}	17.2	X	322.43780	196.17879	37.47345	1.58458	0.1407849	0.26334808	2.4105489	21	2 11.5	20.1
199306 2006 BL_{91}	16.9	X	125.86887	292.92459	161.27597	3.31469	0.0472137	0.26948938	2.3737863	21	4 13.9	19.9
199307 2006 BR_{93}	15.8	X	4.07529	356.63035	324.88995	6.44145	0.1360006	0.22143444	2.7058638	21	9 7.3	18.7
199308 2006 BS_{93}	18.0	X	107.80717	299.18846	183.45845	1.02729	0.1329015	0.27122262	2.3636624	21	5 11.6	20.9
199309 2006 BF_{98}	17.1	X	48.73432	132.46549	48.04863	1.26596	0.1525732	0.26987098	2.3715480	21	5 4.1	19.2
199310 2006 BB_{99}	15.5	X	2.16485	194.79369	75.34892	10.64950	0.1129446	0.21533502	2.7567218	21	6 19.9	18.5
199311 2006 BJ_{99}	16.8	X	166.31938	120.56185	137.31806	4.50506	0.1975870	0.23896209	2.5718761	21	12 29.4	21.1
199312 2006 BN_{101}	17.5	X	82.35676	250.43893	77.75023	0.77240	0.0339949	0.24177525	2.5518873	21	12 28.1	20.9
199313 2006 BZ_{101}	15.3	X	30.74913	346.67214	319.16665	12.12699	0.1329887	0.22476530	2.6790648	21	9 26.9	18.7
199314 2006 BG_{102}	16.4	X	126.03766	251.26079	184.84907	1.78716	0.0449608	0.20302994	2.8670108	21	3 27.6	20.2
199315 2006 BN_{103}	16.0	X	182.07469	140.10625	159.90644	9.45245	0.1210785	0.18385176	3.0630742	21	—	—
199316 2006 BR_{103}	17.1	X	145.72570	75.83109	328.69131	3.82642	0.0912803	0.26450932	2.4034886	21	3 7.9	20.2
199317 2006 BQ_{107}	16.3	X	34.16126	156.27114	104.97399	2.95261	0.0425721	0.22055812	2.7130264	21	7 26.7	19.6
199318 2006 BA_{113}	16.5	X	74.69727	273.54572	30.79172	2.59406	0.1708116	0.23341027	2.6124986	21	12 3.2	20.2
199319 2006 BJ_{114}	15.8	X	350.48427	17.35289	319.92845	10.16398	0.0948534	0.22617481	2.6679226	21	9 2.9	19.0
199320 2006 BB_{117}	18.3	X	155.08789	176.59535	276.51507	0.93131	0.1484671	0.27611939	2.3356339	21	5 27.4	21.6
199321 2006 BN_{117}	16.9	X	83.38534	250.88778	85.00572	3.93283	0.0834849	0.24377316	2.5379251	21	—	—
199322 2006 BC_{118}	15.9	X	114.73935	157.97504	212.64077	2.31788	0.0392149	0.18780801	3.0199052	21	—	—
199323 2006 BB_{120}	15.9	X	194.60399	71.47249	223.91747	2.38584	0.1372370	0.18611983	3.0381389	21	—	—
199324 2006 BD_{122}	16.1	X	257.15225	42.69810	330.62700	11.38013	0.0951103	0.21459722	2.7630367	21	6 3.3	20.3
199325 2006 BJ_{122}	17.2	X	1.28231	208.54822	157.14017	1.32909	0.0841383	0.23132194	2.6281985	21	11 3.1	20.1
199326 2006 BR_{122}	15.8	X	36.64836	154.55784	346.80661	1.44164	0.0694445	0.19687838	2.9264248	21	2 22.3	19.5
199327 2006 BR_{128}	16.1	X	103.84530	242.95450	359.91983	1.48290	0.0122959	0.22731365	2.6590043	21	10 1.1	19.7
199328 2006 BC_{131}	16.2	X	308.22158	301.57492	157.64611	5.07204	0.1299434	0.23882979	2.5728258	21	12 14.8	18.9
199329 2006 BH_{131}	15.3	X	235.87589	252.32007	341.30420	10.01263	0.0724247	0.18143591	3.0902045	21	—	—
199330 2006 BS_{131}	16.3	X	310.94268	215.01692	149.76366	2.35065	0.0901294	0.22037571	2.7145232	21	8 8.3	19.5
199331 2006 BT_{131}	16.5	X	16.62120	307.51464	338.01990	1.50201	0.0640263	0.21597053	2.7513112	21	8 4.5	19.6
199332 2006 BU_{131}	16.0	X	186.25532	237.21452	156.76572	5.42808	0.1294096	0.20509361	2.8477463	21	4 17.9	20.5
199333 2006 BZ_{131}	16.2	X	272.45737	165.93218	38.48872	0.96600	0.0934444	0.18284988	3.0742530	21	—	—
199334 2006 BS_{133}	16.8	X	265.01199	104.82511	8.48246	1.33683	0.0356622	0.23160630	2.6260468	21	11 5.3	20.1
199335 2006 BX_{133}	16.4	X	285.05126	356.98262	4.72527	2.06234	0.0961966	0.21632716	2.7482866	21	6 25.4	19.9
199336 2006 BU_{138}	16.3	X	32.54638	327.81486	312.63118	3.16934	0.0655087	0.21929815	2.7234081	21	8 21.7	19.7
199337 2006 BE_{147}	15.9	X	301.44043	196.57298	155.55101	6.76987	0.0466432	0.21854142	2.7296913	21	7 12.5	19.5
199338 2006 BM_{148}	17.2	X	196.66791	31.75359	40.58068	6.16164	0.1708280	0.28322770	2.2963896	21	6 9.6	20.8
199339 2006 BS_{150}	17.1	X	356.13986	287.21597	79.57416	2.88985	0.1176713	0.30354412	2.1927452	21	11 15.3	18.9
199340 2006 BA_{155}	17.0	X	99.86042	322.08322	119.89766	4.15624	0.1027664	0.26345264	2.4099110	21	3 1.9	19.8
199341 2006 BM_{157}	16.4	X	288.09065	43.42576	11.12234	1.90696	0.0650310	0.22580460	2.6708378	21	9 15.9	19.6
199342 2006 BW_{157}	16.9	X	247.69411	39.16962	88.76712	1.49344	0.0541940	0.23119652	2.6291489	21	10 30.5	20.4
199343 2006 BY_{157}	16.6	X	235.58585	330.57025	127.48297	2.96550	0.0211244	0.22301165	2.6930909	21	9 9.8	20.2
199344 2006 BL_{158}	16.6	X	265.63865	304.77392	148.43044	3.80659	0.1408078	0.23069304	2.6329729	21	9 25.8	19.9
199345 2006 BS_{158}	16.9	X	116.38131	288.81251	58.60057	2.98216	0.1910308	0.25627615	2.4546934	21	—	
199346 2006 BP_{161}	16.0	X	56.54601	247.76809	218.06219	8.61072	0.1814876	0.26038757	2.4287858	21	1 25.1	18.3
199347 2006 BA_{162}	17.0	X	192.92252	27.82893	72.27277	5.45288	0.1039668	0.28424441	2.2909104	21	7 16.4	20.2
199348 2006 BW_{162}	15.9	X	358.27747	175.37288	133.48930	5.32920	0.0870475	0.22070870	2.7117922	21	8 8.6	18.9
199349 2006 BB_{163}	15.5	X	68.48387	359.25610	319.26779	11.44024	0.1860692	0.23563455	2.5960321	21	12 16.7	19.5
199350 2006 BJ_{163}	15.7	X	83.32918	137.86009	136.45937	15.56449	0.0901137	0.22937266	2.6430676	21	11 1.6	19.7
199351 2006 BT_{165}	16.8	X	56.06992	169.57538	326.19792	4.87835	0.1666173	0.26444185	2.4038974	21	3 10.8	18.8
199352 2006 BD_{167}	16.2	X	3.62102	204.88100	131.03843	3.38684	0.1514123	0.22631278	2.6668382	21	10 2.8	19.0
199353 2006 BP_{168}	16.2	X	150.13015	61.43548	1.02777	1.70435	0.0565832	0.20289298	2.8683009	21	4 9.2	20.3
199354 2006 BR_{179}	16.5	X	102.36725	299.35898	342.12792	2.74580	0.1612383	0.23294289	2.6159920	21	12 1.4	20.7
199355 2006 BD_{180}	18.1	X	178.87982	276.17037	120.21269	2.92030	0.2114313	0.27358827	2.3500173	21	4 11.2	21.9
199356 2006 BW_{182}	16.3	X	75.15457	207.40406	115.87816	2.14103	0.1844284	0.23597289	2.5935501	21	12 28.8	20.3
199357 2006 BY_{182}	14.8	X	172.39229	154.34867	145.78939	11.92675	0.2593525	0.18144145	3.0901415	21	—	—
199358 2006 BZ_{182}	16.0	X	350.61450	203.52431	133.01903	4.35331	0.1005683	0.22353415	2.6888926	21	9 5.7	18.9
199359 2006 BG_{183}	15.3	X	217.90851	77.62445	202.40899	2.78101	0.0536255	0.18777836	3.0202231	21	1 3.5	19.9
199360 2006 BP_{186}	16.8	X	49.58201	262.91199	16.45157	2.25383	0.1353605	0.22010888	2.7167166	21	9 25.7	20.1

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
199361	2006 BV_{186}	16.3	X	274.60449	167.46183	323.64051	6.97373	0.1400862	0.23734431	2.5835498	21	11 27.6	19.4
199362	2006 BR_{188}	16.1	X	186.98227	189.86950	356.87069	11.72572	0.1135539	0.22976830	2.6400327	21	10 23.2	20.2
199363	2006 BQ_{189}	16.3	X	273.02443	273.56239	36.30415	4.72693	0.1483918	0.20138917	2.8825619	21	3 29.8	20.5
199364	2006 BY_{190}	15.7	X	324.65124	114.18905	74.45339	4.08912	0.1462567	0.18338460	3.0682740	21	1 4.0	19.9
199365	2006 BN_{192}	17.0	X	252.24721	231.19947	296.25134	2.44139	0.0655231	0.24080286	2.5587526	21	12 26.6	20.2
199366	2006 BP_{195}	16.3	X	260.62682	100.87202	309.35825	8.77876	0.0668711	0.22229873	2.6988458	21	8 1.8	20.0
199367	2006 BZ_{198}	15.5	X	349.77896	47.30906	323.96422	14.52217	0.0592473	0.23012971	2.6372679	21	10 13.0	19.0
199368	2006 BE_{201}	16.7	X	19.09109	53.31430	179.08043	3.30569	0.0753671	0.21385733	2.7694059	21	5 26.7	19.9
199369	2006 BY_{201}	15.8	X	198.08737	348.39466	352.94656	4.04932	0.1398592	0.19939118	2.9017863	21	2 24.5	20.6
199370	2006 BA_{203}	16.3	X	248.70202	245.66067	107.62692	3.07620	0.0709664	0.21023174	2.8011553	21	5 4.0	20.4
199371	2006 BA_{211}	15.5	X	189.95431	220.62837	314.58295	12.78290	0.1100835	0.22561011	2.6723726	21	10 8.7	19.9
199372	2006 BZ_{211}	15.1	X	285.95925	47.25253	151.37785	10.40619	0.0644594	0.18474113	3.0532356	21	—	—
199373	2006 BT_{216}	15.6	X	186.78042	268.19002	288.60449	10.73411	0.0287535	0.23288308	2.6164399	21	11 12.4	19.3
199374	2006 BW_{218}	17.0	X	210.41970	264.39411	119.26233	6.18402	0.2024635	0.27709658	2.3301396	21	4 23.1	20.9
199375	2006 BB_{219}	16.1	X	2.69573	281.47368	340.91416	4.40012	0.0964791	0.21224889	2.7833796	21	6 9.7	19.4
199376	2006 BO_{222}	16.8	X	42.00294	259.00772	304.99793	2.20231	0.1138040	0.27237607	2.3569846	21	5 22.3	19.1
199377	2006 BW_{223}	16.5	X	181.77797	303.13141	297.67724	2.98719	0.1554328	0.23826840	2.5768655	21	12 25.2	20.4
199378	2006 BA_{224}	16.8	X	93.87984	39.71265	267.64878	1.58256	0.1251927	0.23685018	2.5871418	21	12 22.9	20.5
199379	2006 BX_{226}	17.0	X	44.22142	359.78628	158.41986	4.84642	0.1155969	0.26458635	2.4030221	21	3 19.5	19.1
199380	2006 BK_{227}	16.5	X	58.05739	102.91425	148.79691	0.20224	0.0540392	0.21741403	2.7391196	21	8 18.3	20.0
199381	2006 BP_{227}	16.9	X	282.97770	284.57050	158.30302	1.37982	0.1804708	0.23225471	2.6211570	21	9 30.3	20.0
199382	2006 BH_{240}	16.0	X	77.17795	159.29100	117.58776	6.30235	0.0921614	0.22842024	2.6504096	21	10 25.6	19.7
199383	2006 BY_{247}	16.2	X	139.93129	175.01005	117.34476	2.62355	0.1475004	0.17602820	3.1531736	21	—	—
199384	2006 BC_{248}	17.0	X	108.11148	243.78810	138.24310	5.96970	0.1233959	0.25481401	2.4640745	21	—	—
199385	2006 BT_{248}	16.8	X	4.83546	274.78990	128.12632	4.71333	0.1388395	0.24092598	2.5578807	21	—	—
199386	2006 BV_{249}	17.2	X	63.58617	331.00270	141.91220	6.77278	0.0798748	0.26385293	2.4074731	21	2 11.9	19.8
199387	2006 BP_{251}	17.3	X	148.92951	69.78951	322.32475	5.63140	0.1539433	0.26491587	2.4010290	21	3 2.3	20.7
199388	2006 BA_{252}	16.3	X	252.42799	55.91638	150.63691	2.00576	0.0862868	0.18161993	3.0881168	21	—	—
199389	2006 BH_{254}	18.1	X	234.67723	116.95881	303.04075	2.79458	0.2018630	0.28673505	2.2776249	21	6 29.0	21.4
199390	2006 BD_{255}	17.4	X	91.90977	109.47703	314.04966	2.82184	0.1194974	0.26014892	2.4302710	21	1 25.4	20.1
199391	2006 BN_{255}	15.8	X	53.19494	125.83593	162.36766	3.49887	0.0419430	0.22596329	2.6695873	21	9 29.4	19.3
199392	2006 BB_{257}	16.0	X	91.04090	188.62852	121.83062	4.32234	0.1430762	0.23533647	2.5982238	21	12 24.9	19.9
199393	2006 BJ_{264}	16.2	X	247.70750	236.42938	96.98835	3.29155	0.0679115	0.20284220	2.8687796	21	4 9.1	20.3
199394	2006 BU_{264}	16.5	X	213.45015	242.32116	146.65617	4.99705	0.1165149	0.20918099	2.8105279	21	5 8.1	20.9
199395	2006 BE_{265}	15.9	X	341.15568	184.68440	152.74123	13.98363	0.2059897	0.22076181	2.7113573	21	8 14.4	18.2
199396	2006 BA_{266}	15.3	X	211.20834	66.07271	195.21630	8.95837	0.0543196	0.17452642	3.1712362	21	—	—
199397	2006 BD_{266}	16.3	X	63.30899	192.50024	57.19222	2.78560	0.1625379	0.20925996	2.8098208	21	9 9.5	20.0
199398	2006 BO_{266}	15.7	X	304.23298	94.20105	42.29950	11.59089	0.1276889	0.23621876	2.5917501	21	—	—
199399	2006 BT_{268}	16.3	X	141.12967	348.36411	54.28187	9.82039	0.0692474	0.26485301	2.4014088	21	3 3.1	19.6
199400	2006 BZ_{273}	17.1	X	160.29636	12.85675	35.03095	1.90875	0.1792838	0.27029263	2.3690810	21	4 6.3	20.5
199401	2006 BG_{274}	17.4	X	342.85995	194.85899	332.17941	1.07101	0.1286475	0.25359953	2.4719352	21	—	—
199402	2006 BW_{274}	15.5	X	160.56601	326.00035	346.25641	10.92993	0.1723386	0.17996879	3.1069761	21	—	—
199403	2006 CM_{9}	15.4	X	72.49944	251.23508	81.22464	14.65727	0.2169140	0.23555879	2.5965887	21	—	—
199404	2006 CG_{14}	17.0	X	356.04461	137.35618	296.14545	1.12837	0.1225962	0.24580365	2.5239292	21	—	—
199405	2006 CV_{17}	15.9	X	5.94112	133.02809	83.79883	3.15943	0.0199573	0.20521981	2.8465787	21	4 17.4	19.6
199406	2006 CF_{19}	17.1	X	197.05478	296.49052	269.63204	2.65253	0.0332038	0.23884750	2.5726987	21	12 10.0	20.6
199407	2006 CF_{21}	15.7	X	149.81081	350.48495	124.22565	23.73008	0.1405760	0.27596527	2.3365035	21	6 22.6	19.5
199408	2006 CC_{27}	16.3	X	17.34633	134.38050	111.54955	2.81502	0.0539234	0.21333309	2.7739411	21	6 10.6	19.7
199409	2006 CW_{29}	16.1	X	279.60020	82.94297	164.95588	6.07705	0.0842890	0.25856158	2.4402073	21	1 15.5	19.7
199410	2006 CY_{34}	16.4	X	141.35346	147.75812	155.32088	6.27505	0.1955797	0.24582878	2.5237572	21	—	—
199411	2006 CZ_{38}	16.7	X	129.40044	272.87542	169.45256	5.86403	0.0690991	0.26743330	2.3859375	21	4 5.9	19.8
199412	2006 CR_{41}	16.6	X	216.11029	285.56361	284.37000	2.31134	0.0640624	0.23853093	2.5749744	21	—	—
199413	2006 CV_{42}	15.6	X	217.42247	11.58047	307.25083	7.18707	0.3060170	0.25543845	2.4600572	21	2 6.9	20.0
199414	2006 CV_{43}	16.4	X	85.35127	338.82001	137.04716	7.99349	0.2612922	0.26674302	2.3900519	21	4 25.4	19.2
199415	2006 CY_{43}	15.4	X	193.64506	308.85350	156.00481	9.63540	0.1112807	0.21112643	2.7932361	21	7 20.5	19.8
199416	2006 CJ_{53}	16.1	X	61.84878	3.69602	133.74021	2.93638	0.0121300	0.20294181	2.8678407	21	3 20.0	19.9
199417	2006 CJ_{57}	16.4	X	209.24182	193.14197	172.02792	2.15198	0.0824238	0.20305280	2.8667956	21	4 4.4	20.8
199418	2006 CU_{57}	15.8	X	98.56643	90.39374	121.51972	5.97906	0.0546774	0.21742977	2.7389875	21	8 20.2	19.6
199419	2006 DG	16.1	X	223.50173	176.96617	38.57627	9.25115	0.0385334	0.24359223	2.5391816	21	—	—
199420	2006 DQ_{1}	17.1	X	353.96394	22.89660	47.23016	3.51008	0.1061002	0.30693884	2.1765475	21	—	—
199421	2006 DX_{1}	17.6	X	136.81260	50.99533	25.04171	2.03876	0.1607630	0.27077972	2.3662391	21	4 16.5	20.7
199422	2006 DZ_{1}	16.1	X	298.84722	221.75555	142.17331	9.58064	0.0741431	0.22011612	2.7166570	21	7 21.1	19.6
199423	2006 DR_{6}	16.0	X	191.37880	262.52551	143.78038	4.48135	0.1004637	0.21004488	2.8028164	21	5 7.5	20.3
199424	2006 DA_{7}	15.9	X	265.25195	138.59552	347.37368	12.62295	0.1638584	0.23394997	2.6084793	21	10 29.2	19.4
199425	2006 DD_{8}	15.4	X	250.90449	178.27462	23.14873	5.31533	0.1269127	0.17614716	3.1517538	21	—	—
199426	2006 DE_{8}	15.6	X	41.74530	246.70788	138.65208	3.68441	0.0878473	0.23776951	2.5804688	21	—	—
199427	2006 DC_{12}	16.1	X	131.20751	6.97574	170.02191	3.99946	0.0538210	0.21822065	2.7323657	21	8 12.6	20.1
199428	2006 DS_{12}	16.2	X	218.99754	112.60484	1.95946	13.45418	0.1530922	0.22466404	2.6798697	21	8 30.7	20.4
199429	2006 DJ_{13}	16.7	X	52.93609	215.67490	287.83617	4.07073	0.1638547	0.26462626	2.4027805	21	3 14.8	18.9
199430	2006 DP_{19}	16.3	X	233.62232	263.46211	345.25916	8.35625	0.1002466	0.18492068	3.0512590	21	—	—
199431	2006 DD_{20}	17.3	X	145.43479	359.16104	24.83654	2.57946	0.2148920	0.26367975	2.4085271	21	2 25.2	20.8
199432	2006 DH_{22}	15.5	X	208.45506	193.84744	71.88536	2.46681	0.1395604	0.18052515	3.1005893	21	—	—
199433	2006 DY_{22}	16.1	X	137.74968	140.74562	3.81675	4.85230	0.0996495	0.21412769	2.7670744	21	7 14.4	20.3
199434	2006 DJ_{23}	16.8	X	21.78057	320.43020	9.99215	3.59018	0.1002283	0.22588517	2.6702028	21	10 17.9	20.0
199435	2006 DT_{24}	16.1	X	2.24368	315.49732	357.55519	5.71004	0.0598461	0.21905047	2.7254607	21	8 21.7	19.4
199436	2006 DV_{25}	16.5	X	310.10722	241.19906	149.31701	4.32094	0.1635420	0.22711814	2.6605300	21	9 4.5	19.1
199437	2006 DN_{26}	16.6	X	103.35358	65.96094	203.24704	1.38944	0.0416111	0.23058434	2.6338003	21	11 7.6	20.2
199438	2006 DR_{30}	16.4	X	250.96405	236.11340	170.97731	12.21779	0.1508877	0.21797700	2.7344014	21	7 4.1	20.7
199439	2006 DN_{31}	16.4	X	303.01088	4.91165	234.24151	0.90903	0.2043827	0.19115622	2.9845379	21	1 28.8	20.6
199440	2006 DU_{31}	15.8	X	135.79862	278.05051	349.63563	2.36600	0.0495513	0.16926140	3.2366627	21	12 2.6	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199441 2006 DY_{31}	15.8	X	217.88520	263.67047	18.00644	0.32718	0.1026680	0.18482300	3.0523339	21	1 5.9	20.7
199442 2006 DL_{33}	16.3	X	44.74396	176.52201	160.89296	0.25219	0.0970505	0.22891298	2.6466049	21	11 29.4	19.8
199443 2006 DN_{33}	15.9	X	350.22418	136.03214	39.22354	0.84696	0.0548701	0.19067211	2.9895875	21	2 1.2	19.8
199444 2006 DM_{34}	15.2	X	170.61086	162.97951	177.40203	24.39144	0.2638000	0.18437268	3.0573020	21	2 4.2	20.9
199445 2006 DU_{34}	16.2	X	305.22243	310.53372	298.01307	0.74744	0.0425814	0.19623535	2.9328142	21	3 5.5	20.3
199446 2006 DM_{35}	16.2	X	124.17518	355.77619	166.27605	3.62243	0.0302341	0.21256061	2.7806577	21	7 12.6	20.1
199447 2006 DG_{36}	16.1	X	325.88231	213.32857	173.12610	3.55757	0.0523225	0.22441527	2.6818498	21	10 5.3	19.2
199448 2006 DQ_{37}	15.5	X	169.30885	93.68912	166.08753	6.81527	0.0391616	0.17231606	3.1982977	21	12 29.8	20.3
199449 2006 DD_{38}	16.2	X	137.74435	117.53678	0.15197	5.05426	0.0103791	0.21122129	2.7923998	21	5 29.1	20.0
199450 2006 DF_{38}	16.3	X	122.04064	146.06727	5.43205	3.85411	0.0389527	0.21416015	2.7667947	21	6 27.6	20.1
199451 2006 DH_{38}	17.4	X	95.82387	302.68894	173.01890	1.23468	0.1402264	0.26852820	2.3794474	21	4 16.6	20.0
199452 2006 DK_{38}	15.8	X	248.89686	221.28591	149.66390	11.65715	0.0182879	0.21344523	2.7729694	21	6 3.7	19.9
199453 2006 DL_{39}	15.9	X	305.53573	245.23304	25.98000	2.16504	0.0443744	0.19892319	2.9063357	21	4 3.4	19.9
199454 2006 DQ_{39}	16.0	X	152.26647	197.15799	20.01583	13.49713	0.1034414	0.23150525	2.6268109	21	10 28.0	20.0
199455 2006 DY_{40}	14.8	X	344.63376	348.57866	166.27754	20.51098	0.0253515	0.18527651	3.0473510	21	1 3.6	19.4
199456 2006 DF_{41}	16.0	X	212.06545	10.62957	136.02313	2.59979	0.0301969	0.22890257	2.6466851	21	10 13.2	19.5
199457 2006 DN_{41}	15.2	X	76.87688	305.80901	271.42158	11.61334	0.1323849	0.21442843	2.7644865	21	8 5.5	19.1
199458 2006 DJ_{45}	16.2	X	9.74755	179.99599	151.48961	6.47403	0.1376785	0.22657376	2.6647899	21	10 6.9	19.1
199459 2006 DT_{46}	16.2	X	273.02455	51.67681	353.57971	5.82466	0.0162549	0.21891306	2.7266011	21	8 20.9	19.8
199460 2006 DB_{47}	15.7	X	228.64762	174.54598	139.26132	0.85562	0.1461763	0.19128821	2.9831648	21	2 19.8	20.5
199461 2006 DP_{52}	15.6	X	242.20039	321.78981	226.45301	15.81693	0.0868968	0.24133064	2.5550206	21	—	—
199462 2006 DZ_{52}	16.5	X	258.57366	193.30725	269.11298	1.43773	0.1200697	0.22942169	2.6426911	21	9 29.7	20.0
199463 2006 DX_{57}	16.1	X	337.65369	125.36902	189.28342	2.52825	0.0602013	0.21303044	2.7765677	21	7 13.7	19.6
199464 2006 DY_{57}	16.9	X	330.92175	296.38303	182.30731	4.91955	0.1216523	0.24420565	2.5349277	21	—	—
199465 2006 DX_{58}	15.7	X	297.36051	102.93709	200.93866	1.44297	0.0470661	0.20250738	2.8719407	21	5 4.1	19.6
199466 2006 DC_{59}	16.0	X	348.62788	304.75881	271.76862	0.87296	0.0546173	0.19727471	2.9225040	21	3 21.0	19.7
199467 2006 DW_{59}	15.8	X	222.11609	267.61617	181.29440	12.90187	0.1018816	0.21792290	2.7348539	21	7 29.8	20.1
199468 2006 DF_{60}	16.0	X	274.82701	195.94114	188.20728	5.93182	0.0769292	0.21378696	2.7700136	21	7 13.7	19.9
199469 2006 DR_{60}	17.9	X	90.43109	288.21864	186.07991	3.82922	0.1732231	0.26438276	2.4042556	21	4 12.8	20.6
199470 2006 DL_{62}	17.5	X	146.93186	278.32476	216.60763	3.23726	0.2550004	0.27992796	2.3144006	21	7 18.9	21.4
199471 2006 DR_{64}	15.6	X	131.33194	209.87407	351.13474	12.72412	0.0884021	0.22320665	2.6915222	21	9 16.3	19.5
199472 2006 DT_{64}	15.8	X	319.96128	182.18384	134.09308	5.11500	0.0594272	0.21356387	2.7719423	21	6 19.5	19.3
199473 2006 DW_{64}	15.4	X	196.01176	152.21170	129.48925	10.18009	0.0698151	0.18431903	3.0578953	21	—	—
199474 2006 DD_{66}	15.3	X	34.51313	194.64684	56.95708	14.49059	0.1215164	0.21100852	2.7942766	21	7 25.7	18.9
199475 2006 DQ_{66}	15.7	X	76.63610	4.22815	176.21355	15.49826	0.1329951	0.20923521	2.8100424	21	6 20.9	19.8
199476 2006 DS_{66}	17.2	X	67.91633	31.59260	84.21851	3.10379	0.1573652	0.26377290	2.4079600	21	3 6.3	19.5
199477 2006 DV_{66}	15.9	X	118.50214	16.97011	180.65589	13.00256	0.1291254	0.21759783	2.7375770	21	8 30.5	20.2
199478 2006 DE_{73}	16.7	X	112.53051	92.91883	55.56192	3.38006	0.1446412	0.27376295	2.3490176	21	6 24.2	19.9
199479 2006 DM_{73}	15.6	X	37.77475	17.89813	15.00736	15.67185	0.1342718	0.23674437	2.5879126	21	—	—
199480 2006 DY_{73}	16.8	X	281.76540	123.84833	351.89006	4.37155	0.1883927	0.23699944	2.5860555	21	11 10.8	19.8
199481 2006 DO_{74}	16.4	X	257.26404	240.53938	125.18769	4.23455	0.1070568	0.21362178	2.7714414	21	5 25.6	20.5
199482 2006 DE_{76}	17.2	X	150.55978	40.03858	12.45838	3.95789	0.1789250	0.26784891	2.3834687	21	4 2.4	20.8
199483 2006 DY_{76}	15.2	X	203.59115	238.67527	61.76669	2.35390	0.1576376	0.18597050	3.0397650	21	1 14.9	20.3
199484 2006 DA_{77}	16.4	X	40.82742	222.98122	154.23207	9.84516	0.1755491	0.23994629	2.5648385	21	—	—
199485 2006 DH_{79}	16.3	X	138.08003	219.78286	189.05375	1.83299	0.0274080	0.19674422	2.9277550	21	3 6.4	20.5
199486 2006 DP_{79}	16.6	X	130.98943	283.29607	176.08097	6.82723	0.0545403	0.26944647	2.3740383	21	4 29.9	19.6
199487 2006 DY_{81}	15.9	X	332.22796	323.45015	169.70065	0.59509	0.0118176	0.18114338	3.0935306	21	—	—
199488 2006 DB_{83}	16.3	X	285.41983	329.06034	343.12657	1.03660	0.1197611	0.20283992	2.8688010	21	4 18.0	20.2
199489 2006 DO_{83}	17.5	X	174.14738	157.80914	251.06585	1.23411	0.2118831	0.27082183	2.3659938	21	4 21.3	21.3
199490 2006 DT_{84}	16.3	X	252.79818	45.34494	319.60233	3.13175	0.1150656	0.20939648	2.8085994	21	5 16.7	20.4
199491 2006 DD_{85}	16.1	X	291.95659	167.80308	181.71329	4.70838	0.0780510	0.21279320	2.7786310	21	6 21.3	19.8
199492 2006 DX_{87}	15.8	X	169.53786	263.55594	61.88933	1.08070	0.1343303	0.18365009	3.0653162	21	1 12.7	20.6
199493 2006 DG_{89}	16.6	X	65.93886	202.31144	221.18823	0.51338	0.0319253	0.18558856	3.0439341	21	—	—
199494 2006 DR_{91}	16.3	X	29.00671	163.59697	48.49719	2.70827	0.0075393	0.20376922	2.8600722	21	5 10.9	20.1
199495 2006 DS_{92}	15.7	X	292.68599	155.70820	27.38402	1.03199	0.1297380	0.18128642	3.0919030	21	—	—
199496 2006 DA_{94}	15.8	X	129.39361	289.39101	177.59332	1.95144	0.0223579	0.20282543	2.8689377	21	5 7.9	19.6
199497 2006 DE_{94}	16.4	X	331.55554	48.86814	178.75183	2.75559	0.0404839	0.19495803	2.9456104	21	3 14.0	20.4
199498 2006 DX_{95}	16.3	X	130.72428	82.43374	28.96679	0.74822	0.0604667	0.20426312	2.8554600	21	5 19.2	20.3
199499 2006 DN_{96}	15.4	X	216.30249	320.79139	1.79923	10.04845	0.0980553	0.19005482	2.9960573	21	2 22.9	20.1
199500 2006 DD_{103}	16.5	X	141.73665	269.49878	0.58444	2.60455	0.0342102	0.23566008	2.5958447	21	12 24.2	20.0
199501 2006 DG_{104}	16.4	X	25.54320	165.02363	214.46349	2.21533	0.0970920	0.23533537	2.5982319	21	12 29.1	19.7
199502 2006 DH_{110}	15.4	X	251.35517	236.04303	13.03298	6.60864	0.1413249	0.18415715	3.0596869	21	—	—
199503 2006 DZ_{110}	16.3	X	221.30960	331.96024	359.11712	10.91975	0.0367419	0.19521193	2.9430556	21	3 9.9	20.5
199504 2006 DT_{112}	17.5	X	305.52691	132.55099	298.73799	1.38355	0.1424688	0.23315180	2.6144291	21	10 27.6	20.2
199505 2006 DT_{115}	16.8	X	259.63410	343.04880	69.46526	2.59311	0.0215704	0.21614718	2.7498120	21	8 11.2	20.5
199506 2006 DF_{117}	16.1	X	4.54788	108.65168	162.34132	6.83250	0.0238289	0.20858466	2.8158821	21	6 25.2	19.9
199507 2006 DQ_{118}	16.1	X	263.66836	18.56642	13.95781	2.30801	0.0396143	0.21469059	2.7622356	21	7 17.4	19.7
199508 2006 DJ_{122}	15.1	X	267.68230	193.12829	76.16438	10.80388	0.0975842	0.19111492	2.9849679	21	2 12.4	19.7
199509 2006 DV_{122}	15.1	X	2.86111	205.98602	42.86205	15.94416	0.0918720	0.20526413	2.8461689	21	5 20.3	18.5
199510 2006 DW_{122}	16.0	X	166.90287	339.06383	168.61602	8.41805	0.1498770	0.21715462	2.7413006	21	8 16.8	20.4
199511 2006 DH_{124}	16.2	X	175.01784	119.69197	291.08417	1.11243	0.0526841	0.20478588	2.8505984	21	4 22.5	20.4
199512 2006 DR_{124}	16.7	X	313.86238	266.61461	24.89030	2.27192	0.0343257	0.20402661	2.8576662	21	5 11.3	20.5
199513 2006 DU_{127}	16.4	X	55.88200	259.11008	10.65895	2.18352	0.1335489	0.22208673	2.7005630	21	9 21.6	19.9
199514 2006 DW_{134}	16.1	X	198.91945	87.74974	347.53609	5.13444	0.0338913	0.21434823	2.7651760	21	6 21.9	20.1
199515 2006 DF_{135}	16.2	X	212.88516	59.48937	350.55404	3.57222	0.1030636	0.21345227	2.7729085	21	6 1.2	20.5
199516 2006 DM_{137}	17.3	X	116.74748	328.16720	99.09468	3.44725	0.1728008	0.26390284	2.4071695	21	3 16.5	20.5
199517 2006 DJ_{139}	16.1	X	64.01265	295.49009	37.78981	6.00472	0.0930835	0.23330710	2.6132688	21	12 17.8	19.8
199518 2006 DQ_{141}	16.1	X	284.32762	288.13790	90.35314	3.07993	0.0947885	0.21767754	2.7369087	21	7 17.8	19.5
199519 2006 DH_{143}	16.1	X	85.74360	150.63862	353.25511	1.47941	0.0081456	0.20452309	2.8530397	21	4 26.2	19.8
199520 2006 DT_{143}	16.0	X	66.61994	108.52734	148.47511	3.64750	0.0426115	0.21993001	2.7181894	21	9 5.1	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199521 2006 DX_{143}	15.9	X	354.99455	301.30356	353.06220	4.33039	0.0479680	0.21404330	2.7678016	21	7 14.2	19.5
199522 2006 DX_{147}	16.1	X	152.79400	78.89087	326.13703	0.93014	0.0868414	0.19831246	2.9122996	21	3 24.8	20.5
199523 2006 DM_{150}	16.2	X	317.92301	168.06561	314.77669	3.59412	0.0765173	0.24187692	2.5511721	21	—	—
199524 2006 DV_{152}	16.3	X	260.78418	155.79393	246.19455	1.02818	0.0815731	0.21539100	2.7562441	21	7 19.3	20.0
199525 2006 DJ_{156}	16.5	X	348.37973	244.63641	128.76107	2.40312	0.1160503	0.22854066	2.6494785	21	10 25.7	19.3
199526 2006 DC_{164}	17.5	X	54.34958	203.28661	269.40620	1.25575	0.1556703	0.25958663	2.4337791	21	2 1.3	19.6
199527 2006 DT_{179}	15.8	X	196.22410	64.33921	9.82851	3.95830	0.0860478	0.21253796	2.7808552	21	6 15.3	19.9
199528 2006 DF_{188}	15.7	X	162.40171	222.59502	116.55620	3.57954	0.2544979	0.18261667	3.0768697	21	1 30.2	20.9
199529 2006 DB_{189}	15.7	X	208.58753	261.68091	10.06167	10.32865	0.0344442	0.18141106	3.0904867	21	—	—
199530 2006 DJ_{190}	16.7	X	351.48359	325.94284	140.55682	4.28992	0.1621582	0.24556634	2.5255550	21	—	—
199531 2006 DV_{191}	16.1	X	334.15964	36.14524	48.84534	4.81526	0.0927120	0.23698126	2.5861877	21	—	—
199532 2006 DX_{196}	15.7	X	251.19285	226.69599	291.14173	12.06208	0.0959461	0.23683064	2.5872841	21	12 6.9	19.1
199533 2006 DN_{197}	15.9	X	199.73026	296.36679	212.18106	13.59810	0.0315169	0.22497895	2.6773684	21	9 25.9	19.7
199534 2006 DM_{198}	15.5	X	224.85710	122.85968	116.82760	2.64240	0.1151070	0.18064175	3.0992549	21	—	—
199535 2006 DU_{199}	15.5	X	104.00706	39.22225	234.65325	10.83778	0.0490130	0.23234366	2.6204879	21	11 14.9	19.0
199536 2006 DT_{201}	14.7	X	181.24237	111.26437	168.72404	22.58203	0.0290646	0.18024658	3.1037830	21	—	—
199537 2006 DY_{201}	15.1	X	233.79985	247.00302	351.83809	15.28830	0.1386958	0.18435486	3.0574990	21	—	—
199538 2006 DE_{203}	15.7	X	350.75474	214.90445	57.92303	4.98042	0.0338633	0.21097505	2.7945721	21	6 7.3	19.2
199539 2006 DN_{203}	16.5	X	106.34053	248.44108	219.73543	6.35526	0.0531054	0.26803150	2.3823862	21	4 5.2	19.5
199540 2006 DD_{206}	16.3	X	332.43320	192.74151	185.55434	5.62841	0.0465601	0.22585844	2.6704134	21	10 4.1	19.4
199541 2006 DV_{206}	15.8	X	342.23165	36.24915	345.14064	6.42554	0.2032754	0.22760736	2.6567163	21	10 24.7	18.1
199542 2006 DM_{208}	16.1	X	265.17114	120.31979	295.04418	1.30978	0.0548674	0.21748543	2.7385201	21	8 16.1	19.6
199543 2006 DL_{210}	15.9	X	44.78075	220.26878	1.03415	4.52024	0.1299428	0.20638423	2.8358617	21	6 28.2	19.3
199544 2006 DG_{212}	16.3	X	277.70362	78.24762	332.19058	2.74930	0.0986370	0.21950913	2.7216628	21	8 20.4	19.8
199545 2006 DB_{215}	16.4	X	157.08191	191.59687	245.42983	1.08426	0.0460310	0.20242921	2.8726801	21	5 5.1	20.6
199546 2006 DT_{216}	16.6	X	2.30902	352.11940	5.07066	6.16704	0.0551730	0.22567640	2.6718493	21	10 18.8	19.9
199547 2006 ET_{7}	17.2	X	68.33514	248.75864	162.26717	3.38513	0.1960010	0.25160059	2.4850108	21	—	—
199548 2006 EN_{10}	16.0	X	326.76571	207.09168	147.14278	4.09527	0.0945649	0.21873760	2.7280590	21	8 19.1	19.1
199549 2006 EQ_{11}	16.9	X	40.43873	92.24795	153.17822	3.55875	0.0080050	0.21255706	2.7806886	21	7 9.4	20.6
199550 2006 EE_{15}	16.2	X	328.00551	236.69500	92.08130	0.53340	0.0719042	0.21339253	2.7734259	21	7 17.9	19.5
199551 2006 EE_{17}	16.0	X	247.53382	271.80317	74.95199	2.97967	0.0676046	0.20166008	2.8799797	21	4 25.1	20.2
199552 2006 EC_{18}	16.0	X	317.94543	148.77406	70.40675	2.99410	0.0974442	0.19038199	2.9926240	21	2 7.9	20.0
199553 2006 EU_{18}	16.4	X	47.92466	343.50129	352.95415	1.80764	0.0898821	0.22911872	2.6450202	21	11 30.8	20.0
199554 2006 EA_{20}	16.2	X	293.92628	135.08673	254.43688	4.68384	0.0578638	0.21820994	2.7324551	21	8 18.9	19.8
199555 2006 EV_{24}	16.2	X	169.14007	137.39431	162.26600	5.49605	0.1564434	0.18097203	3.0954829	21	—	—
199556 2006 EF_{27}	15.0	X	214.04543	297.57514	260.64761	3.76817	0.1126450	0.17094140	3.2154212	21	11 29.4	19.9
199557 2006 EQ_{34}	17.0	X	40.09195	77.90240	19.51185	6.44642	0.0877642	0.25156018	2.4852769	21	—	—
199558 2006 EV_{34}	15.4	X	186.64161	269.56513	53.50774	3.56951	0.1458026	0.18478980	3.0526995	21	1 26.7	20.3
199559 2006 EZ_{34}	16.0	X	276.51920	218.85731	124.17898	3.29151	0.0707908	0.20648428	2.8349455	21	5 24.9	20.0
199560 2006 EB_{40}	16.3	X	328.13802	173.25987	184.54751	11.68700	0.1449113	0.22024913	2.7155632	21	8 19.8	19.4
199561 2006 EO_{40}	15.8	X	245.48366	63.65763	335.07818	6.18999	0.0536103	0.21332799	2.7739853	21	6 30.1	19.7
199562 2006 EO_{41}	16.3	X	172.86427	286.59531	304.44826	4.17839	0.0813231	0.23169869	2.6253487	21	12 7.8	20.2
199563 2006 EP_{41}	15.6	X	80.40387	18.11806	195.81216	13.25050	0.1247209	0.21145756	2.7903193	21	8 4.8	19.7
199564 2006 ES_{41}	14.9	X	254.97136	19.90927	205.53632	13.70996	0.1307372	0.17947213	3.1127056	21	—	—
199565 2006 EH_{43}	16.8	X	325.31098	200.23321	153.26949	3.24449	0.1675198	0.22228674	2.6989428	21	8 8.1	19.5
199566 2006 EG_{47}	16.2	X	65.46134	212.33478	92.89421	3.23429	0.0733466	0.22926555	2.6438908	21	11 11.9	19.9
199567 2006 EA_{48}	15.2	X	142.98435	165.60057	117.07064	7.70121	0.1644272	0.17146650	3.2088533	21	12 29.7	20.6
199568 2006 EF_{48}	16.0	X	335.28654	213.90157	124.87342	5.95898	0.1850925	0.21890800	2.7266431	21	8 5.3	18.4
199569 2006 ED_{57}	15.8	X	201.43614	80.41096	185.69686	8.99816	0.1282593	0.17923765	3.1154196	21	—	—
199570 2006 EA_{58}	16.5	X	138.95545	239.87966	192.87330	6.24223	0.2226276	0.26931038	2.3748380	21	4 21.8	20.1
199571 2006 EK_{62}	15.7	X	74.69159	20.10201	201.00703	7.63269	0.1545604	0.21132910	2.7914499	21	8 12.5	19.7
199572 2006 EN_{65}	16.4	X	210.62400	340.12930	207.97374	3.71553	0.0721180	0.23132598	2.6281679	21	11 28.0	20.1
199573 2006 EE_{67}	16.0	X	141.65949	155.21940	153.60726	10.14988	0.0661100	0.17781582	3.1320051	21	—	—
199574 Webbert	17.7	X	22.70310	272.63497	142.38250	0.12126	0.0533882	0.24438886	2.5336607	21	—	—
199575 2006 EU_{72}	16.2	X	216.54335	129.45362	184.37914	24.64022	0.0672089	0.19086871	2.9875343	21	2 7.2	21.1
199576 2006 EZ_{72}	16.3	X	245.55726	47.18941	11.53391	5.10126	0.1150797	0.21780368	2.7358518	21	7 19.7	20.3
199577 2006 FH_{1}	17.1	X	241.02728	156.79253	50.77133	0.90135	0.0567678	0.24081738	2.5586497	21	—	—
199578 2006 FQ_{2}	15.7	X	175.43746	286.66362	53.58682	5.38051	0.1489423	0.18396751	3.0617892	21	2 6.7	20.6
199579 2006 FV_{2}	17.0	X	315.22971	68.49770	59.12565	1.28401	0.1163468	0.24023312	2.5627965	21	—	—
199580 2006 FD_{3}	16.3	X	333.30125	140.91988	162.24334	2.20137	0.0431996	0.20703241	2.8299396	21	6 22.9	20.0
199581 2006 FM_{8}	16.6	X	346.42294	90.61127	28.19812	2.56759	0.1218443	0.24374889	2.5380935	21	—	—
199582 2006 FT_{8}	15.9	X	25.70475	170.84354	36.72083	2.35362	0.0463882	0.19917312	2.9039038	21	5 2.2	19.6
199583 2006 FO_{10}	15.5	X	142.65732	324.70635	192.80182	14.13792	0.2227541	0.21634716	2.7481172	21	8 7.5	20.4
199584 2006 FS_{12}	15.3	X	159.32212	316.65132	30.30185	10.59689	0.1531535	0.18246998	3.0785184	21	2 2.2	20.3
199585 2006 FP_{13}	15.0	X	163.65632	145.00248	183.34325	9.30526	0.1072328	0.17959393	3.1112980	21	1 7.8	19.9
199586 2006 FH_{14}	15.8	X	222.53699	80.96694	187.15511	10.37447	0.1092088	0.17937893	3.1137836	21	—	—
199587 2006 FD_{16}	16.0	X	111.13534	215.90227	2.05877	4.51782	0.0519955	0.21841714	2.7307267	21	9 12.1	19.9
199588 2006 FO_{16}	15.7	X	232.60919	113.69389	248.83821	1.18154	0.0557776	0.20234557	2.8734717	21	4 27.7	19.7
199589 2006 FV_{17}	16.2	X	299.56719	325.52291	176.19088	4.37425	0.0779695	0.23757499	2.5818771	21	—	—
199590 2006 FC_{18}	15.5	X	247.04715	87.95220	193.92405	10.06226	0.0658852	0.18576889	3.0419639	21	2 2.9	20.2
199591 2006 FJ_{19}	15.3	X	131.53338	335.10827	26.93594	10.55010	0.0860485	0.17983468	3.1085206	21	1 14.2	20.0
199592 2006 FU_{19}	16.5	X	6.26169	220.66983	33.07671	2.42122	0.0115850	0.20316617	2.8657290	21	6 4.2	20.4
199593 2006 FB_{20}	16.2	X	134.83724	295.62873	188.79311	1.76210	0.0128985	0.20298204	2.8674618	21	6 5.3	20.0
199594 2006 FC_{20}	16.5	X	82.90308	76.54513	194.66861	1.79720	0.0289245	0.21926767	2.7236606	21	10 12.6	20.3
199595 2006 FH_{20}	16.2	X	266.31843	187.75853	45.21213	2.19511	0.0247132	0.18031241	3.1030276	21	1 5.0	20.7
199596 2006 FD_{23}	16.4	X	207.01251	249.55855	163.96929	4.90286	0.2028997	0.21119717	2.7926124	21	5 28.7	21.1
199597 2006 FK_{23}	16.1	X	220.36285	155.29082	41.17545	4.02436	0.1002595	0.23292057	2.6161591	21	12 15.9	19.7
199598 2006 FV_{23}	16.3	X	147.71777	90.96957	158.21500	2.59611	0.0491583	0.22828584	2.6514497	21	12 3.9	20.0
199599 2006 FX_{23}	16.7	X	327.81154	75.29312	45.18927	3.45566	0.1180623	0.24049941	2.5609045	21	—	—
199600 2006 FS_{24}	16.2	X	56.37961	211.37898	54.62862	5.13116	0.0272251	0.21441136	2.7646332	21	9 2.8	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199601 2006 FU_{24}	16.6	X	270.88227	310.21289	183.63374	3.79941	0.1503366	0.23320539	2.6140286	21	11 25.4	19.6
199602 2006 FH_{25}	15.9	X	266.93562	42.35187	222.74021	0.35311	0.0891440	0.18678608	3.0309100	21	2 4.5	20.5
199603 2006 FN_{25}	15.9	X	160.53490	324.73684	196.53814	13.69287	0.0571874	0.21543975	2.7558284	21	8 24.0	20.1
199604 2006 FN_{26}	15.1	X	288.82720	109.89384	100.72300	3.95879	0.1704273	0.18224427	3.0810597	21	—	—
199605 2006 FG_{34}	16.0	X	151.19164	264.41328	325.18274	5.69731	0.1762925	0.22521272	2.6755153	21	11 10.5	20.6
199606 2006 FL_{34}	15.0	X	243.12878	217.92448	32.19424	11.94437	0.0959257	0.17876687	3.1208869	21	—	—
199607 2006 FP_{34}	15.8	X	271.04449	131.19508	352.30646	13.58219	0.1665821	0.23201315	2.6229760	21	11 2.4	19.2
199608 2006 FK_{35}	15.3	X	110.60193	76.36318	46.68810	10.91206	0.0585439	0.20154250	2.8810997	21	5 9.3	19.2
199609 2006 FR_{36}	15.9	X	134.72355	160.08797	2.38881	8.91778	0.1105931	0.21486435	2.7607462	21	8 6.1	20.1
199610 2006 FJ_{37}	15.1	X	282.12749	231.41016	350.01715	15.88310	0.0325057	0.18321104	3.0702115	21	1 11.6	19.7
199611 2006 FS_{38}	15.4	X	186.31398	128.86496	144.31959	6.06862	0.1242176	0.17498384	3.1657073	21	—	—
199612 2006 FE_{39}	15.9	X	256.55324	200.87743	141.37738	2.94488	0.0696016	0.20561083	2.8429686	21	4 29.7	19.9
199613 2006 FN_{40}	16.1	X	355.99000	240.48958	141.48838	3.64698	0.1220902	0.22887947	2.6468631	21	11 20.4	19.1
199614 2006 FQ_{40}	15.9	X	176.43638	178.77646	140.15197	4.27108	0.1018029	0.18627893	3.0364087	21	1 8.8	20.5
199615 2006 FD_{41}	15.9	X	138.42204	191.47843	26.03765	12.56569	0.1168300	0.22087231	2.7104529	21	10 16.4	20.0
199616 2006 FX_{41}	16.4	X	71.75388	320.46013	156.89942	2.79280	0.1550358	0.25866294	2.4395698	21	3 15.1	18.9
199617 2006 FR_{42}	15.9	X	154.12861	322.09153	135.48011	2.85765	0.0241844	0.20337490	2.8637678	21	5 27.2	19.8
199618 2006 FG_{43}	15.0	X	225.14345	283.41999	31.71522	11.05928	0.0904399	0.18997663	2.9968794	21	2 25.3	19.7
199619 2006 FT_{43}	17.0	X	260.40864	131.18843	40.74984	4.36891	0.1598699	0.23952017	2.5678796	21	12 29.9	20.1
199620 2006 FN_{44}	15.3	X	283.64388	160.74972	52.56310	8.59197	0.1256794	0.18071051	3.0984686	21	—	—
199621 2006 FL_{45}	15.4	X	292.66411	268.20515	137.51050	5.91080	0.0194195	0.22051671	2.7133660	21	9 17.3	18.9
199622 2006 FR_{45}	15.4	X	72.76139	203.82716	31.21329	12.51005	0.1502396	0.21453969	2.7635306	21	9 5.9	19.4
199623 2006 FV_{45}	16.0	X	123.78142	329.85045	184.05208	7.03796	0.0822749	0.21082056	2.7959372	21	7 6.9	20.1
199624 2006 FD_{46}	15.7	X	216.32642	120.46178	185.17929	11.38119	0.0595577	0.18802291	3.0176037	21	1 29.8	20.4
199625 2006 FH_{47}	15.2	X	38.58858	259.83033	151.67308	12.50738	0.0662849	0.17600157	3.1534917	21	—	—
199626 2006 FV_{49}	15.7	X	225.26550	90.28023	155.86467	7.05370	0.2055222	0.17652791	3.1472202	21	—	—
199627 2006 FV_{52}	16.2	X	220.18983	287.13398	195.34809	12.33440	0.1240999	0.22217690	2.6998323	21	9 7.1	20.3
199628 2006 FA_{53}	15.9	X	351.25523	105.36026	83.78664	2.58881	0.0285520	0.19075075	2.9887657	21	2 22.9	20.0
199629 2006 FB_{53}	15.9	X	214.61594	274.83939	157.52378	4.28181	0.0811438	0.21036261	2.7999934	21	7 3.6	20.1
199630 2006 GS	16.1	X	267.39095	220.21168	161.69609	6.56982	0.0639492	0.21189076	2.7865149	21	7 3.4	20.1
199631 Giuseppesprizzi	15.8	X	208.41583	142.09282	273.42932	2.39053	0.0918723	0.20958378	2.8069258	21	6 4.6	20.1
199632 2006 GX_{1}	15.6	X	206.22556	297.97096	24.94946	12.80764	0.1252518	0.18794086	3.0184819	21	2 16.6	20.6
199633 2006 GF_{3}	15.9	X	59.81387	167.75121	90.80248	9.31396	0.1787385	0.21127333	2.7919412	21	9 22.9	19.8
199634 2006 GA_{4}	16.1	X	310.01843	139.36631	323.90675	2.38010	0.0282066	0.23719276	2.5846501	21	12 26.0	19.3
199635 2006 GW_{4}	16.1	X	8.84188	260.85078	61.75834	5.43570	0.1221737	0.21691388	2.7433285	21	9 20.6	19.2
199636 2006 GU_{5}	14.8	X	171.60639	133.34770	136.81987	6.10629	0.1297539	0.17104122	3.2141701	21	—	—
199637 2006 GY_{5}	15.3	X	287.29600	96.55759	157.14203	9.52155	0.0280648	0.19092596	2.9869370	21	2 20.7	19.5
199638 2006 GH_{9}	16.2	X	203.59328	82.29954	92.75241	3.33212	0.0228587	0.22743922	2.6580255	21	11 8.7	19.8
199639 2006 GF_{11}	16.3	X	0.17513	254.69126	59.52419	4.57327	0.0629292	0.21320339	2.7750660	21	8 20.4	19.7
199640 2006 GC_{12}	15.8	X	311.76640	70.23772	27.06372	22.27348	0.0948953	0.23359284	2.6111372	21	12 13.3	19.2
199641 2006 GR_{12}	16.2	X	160.30742	188.19388	156.00293	5.54548	0.0569179	0.18265756	3.0764104	21	1 18.3	20.7
199642 2006 GF_{17}	16.0	X	294.85941	225.66978	182.57461	7.04700	0.1137807	0.22055397	2.7130604	21	9 8.6	19.3
199643 2006 GO_{17}	16.1	X	174.94322	121.69628	178.62296	5.72209	0.1331515	0.17537968	3.1609420	21	—	—
199644 2006 GB_{18}	15.6	X	249.93886	152.72582	83.63306	2.13022	0.1481429	0.17860589	3.1227619	21	—	—
199645 2006 GD_{18}	16.0	X	204.17217	286.65681	51.19798	4.34313	0.1069701	0.18879931	3.0093252	21	2 28.5	20.7
199646 2006 GC_{21}	15.8	X	0.23651	122.40186	171.55460	6.00445	0.0431275	0.20861019	2.8156524	21	7 19.5	19.4
199647 2006 GR_{21}	16.4	X	31.88539	16.81494	197.32380	6.17559	0.0562930	0.20386817	2.8591467	21	5 21.5	20.0
199648 2006 GT_{22}	15.5	X	168.30744	256.46304	57.17699	5.43360	0.0710021	0.17674675	3.1446218	21	—	—
199649 2006 GM_{23}	15.5	X	350.89576	307.57575	194.77732	9.75971	0.0347501	0.18080368	3.0974041	21	—	—
199650 2006 GK_{30}	16.7	X	94.58151	34.52269	64.77742	4.77314	0.2002081	0.26068298	2.4269505	21	4 4.5	19.6
199651 2006 GV_{31}	15.1	X	179.19344	218.72261	107.74264	11.45689	0.1140837	0.18149867	3.0894920	21	1 22.3	19.9
199652 2006 GW_{32}	15.6	X	225.20681	75.81075	181.46654	2.52117	0.1378185	0.18142527	3.0903253	21	—	—
199653 2006 GF_{37}	16.2	X	263.03379	251.15098	75.02242	3.01012	0.0493196	0.19761987	2.9191000	21	4 20.1	20.3
199654 2006 GL_{38}	14.4	X	206.51157	211.79894	61.97219	28.19115	0.1905681	0.17493339	3.1663159	21	—	—
199655 2006 GC_{39}	15.7	X	181.81358	324.15432	207.06638	12.73525	0.1833518	0.22091392	2.7101125	21	9 27.3	20.3
199656 2006 GC_{42}	15.1	X	227.50829	13.75187	218.00134	16.46580	0.1521939	0.17438426	3.1729595	21	—	—
199657 2006 GP_{42}	15.1	X	191.20406	141.93745	153.31710	11.76893	0.0437162	0.18017450	3.1046108	21	—	—
199658 2006 GD_{43}	16.9	X	296.90947	130.80536	321.17313	3.20937	0.1827019	0.23565479	2.5958835	21	11 5.1	19.5
199659 2006 GD_{44}	16.7	X	175.12156	148.85070	59.03446	4.48214	0.0126354	0.22513110	2.6761619	21	11 14.9	20.2
199660 2006 GR_{45}	16.0	X	336.66789	31.24661	144.15316	6.96226	0.0749295	0.26106962	2.4245538	21	—	—
199661 2006 GV_{46}	16.1	X	311.39164	319.94325	46.82818	5.81967	0.0676699	0.21477577	2.7615052	21	8 17.3	19.6
199662 2006 GB_{47}	15.0	X	299.44691	169.19080	31.01830	11.31946	0.0406693	0.18233102	3.0800824	21	1 2.7	19.5
199663 2006 GG_{47}	15.5	X	210.44640	254.79678	27.32835	9.25469	0.0520360	0.17998991	3.1067331	21	—	—
199664 2006 GX_{47}	16.6	X	63.05130	157.72715	78.93711	0.53679	0.0844213	0.20967314	2.8061282	21	8 9.3	20.2
199665 2006 GX_{48}	15.7	X	327.77411	269.24222	218.35973	12.85902	0.1297934	0.24065239	2.5598190	21	—	—
199666 2006 GA_{49}	15.1	X	150.28296	268.57221	37.76323	5.24554	0.1171608	0.16954804	3.2330136	21	—	—
199667 2006 GF_{50}	15.6	X	86.94067	350.27030	259.36519	9.87679	0.1649430	0.21677884	2.7444677	21	10 2.6	19.9
199668 2006 GH_{50}	15.2	X	137.43384	105.64631	102.07426	13.27873	0.1220108	0.21916991	2.7244704	21	10 9.8	19.7
199669 2006 GM_{52}	15.1	X	163.95676	225.47851	92.85727	10.74888	0.0882190	0.17869882	3.1216791	21	—	—
199670 2006 GM_{54}	16.1	X	284.55507	7.32692	43.62655	3.13839	0.1871999	0.21597750	2.7512520	21	8 17.9	19.5
199671 2006 HV	16.0	X	312.93332	332.45405	149.25033	4.29799	0.1710947	0.23822327	2.5771910	21	—	—
199672 2006 HV_{2}	15.6	X	261.13496	163.13179	91.98985	2.85657	0.1387895	0.18367558	3.0650327	21	1 14.3	20.4
199673 2006 HH_{3}	15.5	X	17.01209	231.29438	195.08501	13.84299	0.1262317	0.23766368	2.5812348	21	—	—
199674 2006 HX_{3}	15.9	X	233.49660	307.28985	144.77587	5.31736	0.1018645	0.21588531	2.7520352	21	8 18.4	19.8
199675 2006 HE_{4}	16.5	X	111.76830	322.56857	304.11369	2.34914	0.1547189	0.23174952	2.6249648	21	11 21.7	20.7
199676 2006 HC_{5}	15.7	X	194.35328	168.71427	15.14081	13.97741	0.0606552	0.22724314	2.6595543	21	10 31.6	19.7
199677 Terzani	15.5	X	72.44157	143.89561	20.49240	17.93059	0.1331875	0.20097071	2.8865619	21	5 18.7	19.5
199678 2006 HA_{8}	15.4	X	346.60792	345.48269	193.26920	6.74799	0.1495965	0.18615146	3.0377947	21	1 19.6	19.2
199679 2006 HN_{8}	15.9	X	318.30192	132.46455	194.43068	13.86667	0.0630270	0.21044726	2.7992426	21	6 29.7	19.8
199680 2006 HT_{8}	15.9	X	75.97119	314.95066	266.95883	2.15787	0.0500403	0.21272752	2.7792030	21	8 1.3	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199681 2006 HQ_{12}	16.1	X	166.29412	52.91377	12.70121	1.93740	0.0525289	0.20300156	2.8672780	21	5 1.5	20.3
199682 2006 HV_{13}	15.8	X	8.76032	226.12093	6.36407	16.91076	0.0933836	0.20144973	2.8819842	21	5 3.6	19.6
199683 2006 HL_{15}	16.1	X	238.16083	351.53379	165.24360	5.33514	0.2007819	0.22935339	2.6432157	21	11 4.9	19.9
199684 2006 HY_{16}	16.0	X	309.97538	25.58545	273.79218	1.35943	0.0434308	0.19777837	2.9175402	21	5 15.7	20.0
199685 2006 HJ_{17}	16.3	X	239.97012	286.03669	209.85551	14.55851	0.1374375	0.23040350	2.6351783	21	10 17.9	20.0
199686 2006 HK_{17}	15.2	X	235.78236	188.46030	57.86627	13.62938	0.1211308	0.17735041	3.1374821	21	—	—
199687 Erősszsolt	15.9	X	281.62288	101.28929	110.32348	2.57440	0.1207366	0.18176192	3.0865083	21	—	—
199688 Kisspéter	16.0	X	185.67336	138.22892	178.21865	11.29752	0.1072980	0.18301718	3.0723792	21	1 14.4	21.0
199689 2006 HA_{22}	16.2	X	181.07131	354.26198	119.84807	3.37015	0.0438021	0.20982189	2.8048018	21	7 20.9	20.2
199690 2006 HG_{22}	16.6	X	213.15253	297.14987	161.19821	3.93856	0.0587974	0.21270325	2.7794144	21	8 6.3	20.5
199691 2006 HO_{23}	16.3	X	239.04370	266.79214	196.39915	12.20729	0.2291070	0.22193765	2.7017722	21	8 21.5	20.8
199692 2006 HT_{23}	16.1	X	22.35212	316.82692	191.29054	3.96688	0.0255826	0.18571913	3.0425073	21	2 11.4	20.3
199693 2006 HB_{24}	15.8	X	165.37894	136.69804	205.81353	9.44468	0.0460223	0.18004900	3.1060533	21	1 19.7	20.5
199694 2006 HE_{28}	15.9	X	241.76890	276.17951	200.05239	15.33094	0.0965148	0.21928349	2.7235296	21	9 28.1	19.8
199695 2006 HB_{30}	16.3	X	304.33929	44.72678	106.95746	5.04596	0.1830381	0.24089884	2.5580729	21	—	—
199696 2006 HD_{31}	15.5	X	354.98255	307.92714	178.82248	12.38617	0.1469580	0.18076029	3.0978997	21	—	—
199697 2006 HC_{33}	15.6	X	0.03547	99.17919	66.54656	1.88471	0.1036885	0.18974807	2.9992855	21	1 30.0	19.2
199698 2006 HG_{35}	15.6	X	278.67272	328.58026	199.15903	0.55826	0.1348628	0.17144219	3.2091566	21	—	—
199699 2006 HC_{40}	15.5	X	82.56093	228.49607	195.85276	9.34564	0.0775744	0.18029640	3.1032113	21	1 23.3	19.8
199700 2006 HF_{40}	15.7	X	46.05264	205.32308	151.37614	5.38726	0.0360965	0.16037067	3.3552077	21	12 4.1	20.4
199701 2006 HV_{40}	16.4	X	246.81151	317.37029	173.51964	13.44406	0.2044398	0.22571839	2.6715179	21	10 12.5	20.3
199702 2006 HB_{41}	15.0	X	59.85739	249.83481	145.94748	11.56915	0.1124416	0.16907244	3.2390737	21	—	—
199703 2006 HR_{42}	15.9	X	54.40720	321.85057	203.09998	0.83367	0.0710008	0.19893560	2.9062148	21	4 19.9	19.5
199704 2006 HF_{43}	15.7	X	305.30388	175.46021	42.51410	10.76476	0.1243791	0.18353511	3.0665963	21	1 20.9	20.2
199705 2006 HR_{45}	15.5	X	224.24621	155.08652	108.87556	2.55606	0.1371697	0.17894546	3.1188100	21	—	—
199706 2006 HW_{45}	15.8	X	63.25841	272.01632	180.88762	9.23625	0.0273238	0.18722136	3.0262104	21	1 26.6	20.0
199707 2006 HU_{46}	15.8	X	234.43725	196.13404	108.48988	5.23628	0.1103063	0.18539436	3.0460595	21	2 18.1	20.5
199708 2006 HD_{56}	16.0	X	253.61318	328.23317	175.45529	6.36459	0.1485459	0.22921610	2.6442710	21	11 14.3	19.5
199709 2006 HU_{56}	15.2	X	233.94346	55.75525	223.28589	10.51824	0.1885336	0.17939512	3.1135963	21	1 13.4	20.6
199710 2006 HL_{58}	16.5	X	155.17719	51.72680	139.10091	5.32338	0.0406380	0.21798363	2.7343459	21	9 30.3	20.4
199711 2006 HR_{59}	16.1	X	74.29198	152.11374	87.64620	4.13106	0.0651160	0.21187705	2.7866351	21	8 27.7	19.8
199712 2006 HY_{60}	15.6	X	273.96180	21.33298	224.08748	1.56401	0.1979260	0.18072379	3.0983169	21	1 10.0	20.5
199713 2006 HD_{65}	15.4	X	345.57268	315.51194	210.81396	8.75886	0.0690475	0.18234043	3.0799765	21	1 13.1	19.7
199714 2006 HK_{68}	15.3	X	271.70594	6.96925	230.96373	15.55691	0.0452113	0.18027274	3.1034828	21	1 11.0	20.1
199715 2006 HJ_{78}	14.7	X	309.09566	194.38352	75.45180	2.89462	0.2051897	0.12683538	3.9232180	21	3 24.8	20.0
199716 2006 HS_{79}	16.2	X	324.37919	348.93257	129.85872	0.85526	0.1182634	0.23631633	2.5910367	21	—	—
199717 2006 HZ_{81}	15.8	X	79.48429	208.60810	218.99248	8.79880	0.0639730	0.18012297	3.1052029	21	1 21.4	20.1
199718 2006 HE_{83}	15.2	X	39.09747	176.11233	226.43574	4.93146	0.1198177	0.16777898	3.2556998	21	—	—
199719 2006 HV_{83}	14.9	X	85.41542	321.09710	83.87754	10.27545	0.2144514	0.17589865	3.1547217	21	1 27.4	19.0
199720 2006 HV_{84}	15.1	X	228.74584	224.52236	62.58758	17.83121	0.0757266	0.17953457	3.1119838	21	1 27.8	20.1
199721 2006 HX_{84}	15.6	X	120.42526	184.31850	218.12724	15.55751	0.0760742	0.18200848	3.0837203	21	2 9.3	20.3
199722 2006 HS_{85}	16.4	X	93.88176	117.98495	157.64397	2.02800	0.0493134	0.22409262	2.6844234	21	11 4.8	20.0
199723 2006 HR_{86}	16.1	X	309.29451	14.75329	137.75496	4.87697	0.1329290	0.24086934	2.5582817	21	—	—
199724 2006 HE_{87}	15.0	X	197.07830	155.95400	191.76601	10.62255	0.1530446	0.19019632	2.9945712	21	3 1.7	20.0
199725 2006 HO_{87}	16.5	X	270.20570	188.51479	192.94777	6.27926	0.0389465	0.21104359	2.7939670	21	7 9.7	20.4
199726 2006 HR_{87}	15.6	X	219.89324	212.72321	196.41050	9.24869	0.1584488	0.20903761	2.8118130	21	6 5.6	20.2
199727 2006 HJ_{88}	15.8	X	324.02511	222.92238	207.85035	8.75640	0.0811750	0.23078766	2.6322532	21	12 1.9	19.0
199728 2006 HF_{95}	16.1	X	233.28526	296.58548	186.38855	7.36397	0.1565029	0.22215139	2.7000389	21	9 20.4	20.1
199729 2006 HO_{101}	15.2	X	229.77987	204.63958	79.58975	10.80508	0.0545910	0.17958252	3.1114299	21	1 24.3	19.9
199730 2006 HX_{104}	15.5	X	247.75661	74.73266	178.70267	9.28629	0.0305831	0.18028562	3.1033350	21	1 6.4	20.1
199731 2006 HO_{107}	15.2	X	95.18353	209.22158	194.02816	10.99403	0.0651983	0.17944133	3.1130617	21	1 12.9	19.7
199732 2006 HR_{109}	15.6	X	313.96075	283.15391	192.43022	11.28498	0.1500341	0.23327556	2.6135043	21	—	—
199733 2006 HY_{109}	15.5	X	283.60496	245.09323	236.45012	13.06870	0.0502367	0.23081364	2.6320557	21	12 9.8	18.9
199734 2006 HK_{110}	13.8	X	164.84188	33.15586	251.20647	21.54493	0.0785126	0.16994383	3.2279920	21	—	—
199735 2006 HF_{111}	15.3	X	211.80258	64.38021	176.75413	10.85040	0.0845500	0.17029553	3.2235460	21	—	—
199736 2006 HA_{112}	15.5	X	344.53145	292.33505	181.14350	12.76239	0.2153912	0.23871842	2.5736260	21	—	—
199737 2006 HX_{113}	16.1	X	119.87743	71.07785	72.95873	2.96802	0.0565448	0.20113376	2.8850017	21	6 17.2	20.1
199738 2006 HG_{115}	16.6	X	38.25551	207.47241	81.30526	1.79896	0.0387562	0.21361107	2.7715340	21	9 7.9	20.2
199739 2006 HU_{123}	16.6	X	273.08963	74.09445	58.41508	4.19334	0.0555529	0.22903930	2.6456316	21	12 8.2	20.0
199740 2006 HX_{151}	16.3	X	245.23590	223.93656	193.69920	3.34092	0.0872172	0.21241677	2.7819128	21	7 19.1	20.3
199741 Weidner	16.2	X	329.47017	82.78354	62.64085	2.14938	0.0687490	0.17456774	3.1707358	21	—	—
199742 2006 JD	15.2	X	271.72260	224.60834	66.26779	11.38314	0.0723550	0.18628584	3.0363336	21	3 20.9	19.8
199743 2006 JS_{2}	15.0	X	94.15858	346.88883	35.80134	17.69764	0.0993632	0.17690596	3.1427348	21	—	—
199744 2006 JP_{8}	15.8	X	91.73979	210.64580	234.79142	10.17811	0.1086585	0.18743652	3.0238941	21	3 3.1	20.1
199745 2006 JF_{9}	14.8	X	152.19146	156.22530	233.20937	12.57311	0.1210103	0.18555163	3.0443380	21	3 5.1	19.8
199746 2006 JZ_{11}	15.1	X	15.16645	101.63960	92.76466	9.82440	0.0329230	0.19123165	2.9837530	21	4 6.4	19.2
199747 2006 JX_{13}	15.9	X	118.63745	3.15200	195.72716	9.34334	0.0770928	0.21209235	2.7847490	21	8 26.3	20.0
199748 2006 JD_{14}	15.6	X	267.65880	47.69083	221.00752	5.13950	0.1799280	0.18393239	3.0621790	21	1 30.6	20.5
199749 2006 JH_{14}	16.3	X	105.34776	197.32250	27.27640	5.20797	0.0997870	0.21402835	2.7679305	21	9 19.8	20.3
199750 2006 JO_{25}	16.1	X	292.39033	52.06686	45.06216	9.64809	0.1378871	0.22912451	2.6449757	21	11 9.9	19.1
199751 2006 JL_{27}	15.6	X	83.25610	44.30722	214.12704	10.41993	0.1189972	0.21562181	2.7542768	21	10 6.8	19.6
199752 2006 JS_{28}	15.8	X	307.63149	44.94232	126.45450	3.28969	0.0645935	0.17724469	3.1387295	21	—	—
199753 2006 JD_{36}	15.9	X	279.68227	308.50607	210.81280	6.96764	0.1392053	0.23498440	2.6008184	21	—	—
199754 2006 JJ_{38}	15.8	X	204.25345	281.33251	192.19835	6.77628	0.0459552	0.21437573	2.7649396	21	8 15.2	19.8
199755 2006 JD_{39}	15.9	X	153.35865	10.59168	116.72040	3.10229	0.0123705	0.20271732	2.8699576	21	7 2.8	19.9
199756 2006 JN_{40}	16.7	X	202.53080	359.28725	125.81099	3.92045	0.1313980	0.21596290	2.7513760	21	8 25.3	20.8
199757 2006 JB_{45}	15.1	X	244.78684	188.78821	47.30125	9.58000	0.0735431	0.17423695	3.1747476	21	—	—
199758 2006 JU_{46}	15.4	X	326.00695	170.51794	42.69495	6.56282	0.1821500	0.18557302	3.0441041	21	2 1.3	19.5
199759 2006 JH_{48}	16.1	X	327.27952	291.57824	201.71135	10.78161	0.1434286	0.24025784	2.5626208	21	—	—
199760 2006 JB_{50}	15.6	X	75.92743	210.66672	202.73960	10.64986	0.0879130	0.18027247	3.1034859	21	1 3.1	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199761 2006 JT_{50}	16.1	X	258.20735	162.03235	204.22224	4.61145	0.0293837	0.20239601	2.8729942	21	6 6.6	20.0
199762 2006 JC_{56}	14.8	X	204.55244	202.88546	37.25664	10.30409	0.0263951	0.17013391	3.2255872	21	—	—
199763 Davidgregory	16.1	X	175.11039	149.87880	162.11847	0.56948	0.1177976	0.17628894	3.1500638	21	1 2.5	21.0
199764 2006 KN_{1}	15.1	X	281.36742	175.57819	48.01701	12.75858	0.1083584	0.17923688	3.1154285	21	1 1.7	19.9
199765 2006 KT_{3}	16.6	X	252.97090	24.20758	189.57342	3.41613	0.0827128	0.24100296	2.5573360	21	—	—
199766 2006 KJ_{4}	15.8	X	36.70755	324.40661	121.96377	1.83056	0.0237226	0.17466446	3.1695651	21	—	—
199767 2006 KW_{12}	15.8	X	278.67066	305.71019	136.56373	14.62242	0.1406067	0.22204528	2.7008990	21	10 2.7	19.4
199768 2006 KN_{16}	16.3	X	249.22471	303.63805	109.47252	1.72010	0.0679437	0.21294759	2.7772879	21	7 21.5	20.2
199769 2006 KA_{22}	15.3	X	239.36687	179.28686	115.95305	7.01459	0.0356541	0.18268589	3.0760924	21	2 17.1	19.7
199770 2006 KB_{23}	15.0	X	234.64160	185.80108	98.12700	17.85619	0.1934069	0.17941042	3.1134193	21	1 22.2	20.3
199771 2006 KQ_{23}	15.3	X	281.76821	203.43609	47.19147	6.55303	0.2074081	0.18202056	3.0835838	21	1 23.9	20.2
199772 2006 KY_{23}	15.1	X	309.22892	62.94784	112.95428	10.75626	0.0255941	0.17698207	3.1418337	21	—	—
199773 2006 KB_{28}	16.2	X	144.02533	229.90387	198.71280	0.96713	0.0384432	0.19199994	2.9757880	21	4 9.3	20.4
199774 2006 KK_{30}	15.8	X	299.04148	154.64193	50.73024	1.50657	0.1184518	0.17991456	3.1076004	21	—	—
199775 2006 KL_{31}	16.5	X	33.25016	317.81223	273.37540	0.99541	0.0250308	0.20101229	2.8861638	21	6 12.3	20.4
199776 2006 KF_{36}	15.0	X	228.46740	37.29269	191.98180	17.05057	0.0316278	0.16810984	3.2514267	21	—	—
199777 2006 KL_{53}	16.5	X	99.43281	39.27827	175.82954	4.59218	0.0478824	0.20877270	2.8141911	21	8 22.1	20.5
199778 2006 KW_{60}	15.2	X	326.55575	28.89360	207.52983	12.07552	0.0410606	0.18810826	3.0166908	21	3 17.0	19.3
199779 2006 KV_{72}	15.5	X	342.47235	9.67214	174.96738	9.74928	0.0716273	0.18321310	3.0701884	21	1 30.9	19.7
199780 2006 KY_{75}	16.0	X	76.13672	147.36526	15.39228	2.82938	0.1160433	0.19819636	2.9134368	21	5 24.4	19.9
199781 2006 KJ_{80}	15.7	X	158.28959	151.60080	172.30285	6.49517	0.0275229	0.17318161	3.1876321	21	—	—
199782 2006 KZ_{89}	15.7	X	336.81915	123.14441	29.10153	10.64004	0.1629139	0.24450854	2.5328338	21	—	—
199783 2006 KG_{98}	15.0	X	246.71486	133.54903	102.75611	12.54397	0.0528227	0.17368250	3.1815005	21	—	—
199784 2006 KL_{105}	16.1	X	252.04157	43.83260	193.99458	10.02524	0.0259728	0.17835570	3.1256815	21	—	—
199785 2006 KK_{110}	15.7	X	189.81608	288.51231	30.04130	9.56078	0.1041779	0.17987933	3.1080062	21	1 25.5	20.7
199786 2006 KQ_{115}	15.5	X	96.82848	17.78395	76.46490	11.45714	0.0840706	0.18812486	3.0165133	21	3 27.9	19.9
199787 2006 LG_{3}	15.6	X	318.00636	281.14942	131.77853	11.63844	0.0591925	0.22001252	2.7175098	21	11 1.6	19.2
199788 2006 LU_{3}	14.9	X	81.77783	216.04985	194.26287	9.22755	0.0803223	0.17413794	3.1759509	21	1 7.9	19.3
199789 2006 MV_{5}	15.6	X	64.53923	211.24917	100.60686	6.87301	0.0673002	0.21219885	2.7838171	21	11 16.5	19.5
199790 2006 MN_{7}	15.3	X	160.97990	114.10202	290.97044	17.51800	0.0907068	0.17889720	3.1193710	21	3 26.4	20.5
199791 2006 MN_{9}	12.5	X	70.46368	58.68308	271.66432	10.60537	0.0792925	0.08255040	5.2238407	21	11 23.3	19.4
199792 2006 PJ_{1}	12.7	X	121.66776	333.25507	307.04525	21.41391	0.0403065	0.08356188	5.1816005	21	11 14.5	20.0
199793 2006 PK_{14}	12.7	X	63.27731	24.72271	317.89441	7.50360	0.0981268	0.08256051	5.2234142	21	11 30.7	19.6
199794 2006 QF_{105}	15.2	X	117.52808	153.01247	305.08243	9.24113	0.0610121	0.17651495	3.1473743	21	4 14.1	19.9
199795 2006 UB_{198}	16.3	X	4.84458	275.34354	57.18903	1.04606	0.1842515	0.19243420	2.9713094	21	9 26.5	19.3
199796 2006 UN_{217}	12.8	X	2.37617	144.82213	269.07913	1.52026	0.1039854	0.08188191	5.2522341	21	12 4.4	19.2
199797 2006 UY_{240}	15.8	X	326.77761	118.99142	184.42749	5.41115	0.1748950	0.24458348	2.5323164	21	5 26.7	18.4
199798 2006 UF_{256}	17.0	X	342.38041	67.90305	285.10328	21.25937	0.1269164	0.38009582	1.8874436	21	9 22.2	19.0
199799 2006 WY_{200}	17.0	X	322.87084	305.28036	278.71597	11.08269	0.1194248	0.34926337	1.9969508	21	1 12.7	19.2
199800 2006 YF_{11}	16.8	X	149.49810	248.84715	298.45569	19.05355	0.0083554	0.38009544	1.8874449	21	9 20.1	19.3
199801 2007 AE_{12}	19.3	X	307.44022	86.92340	245.49119	2.28507	0.5694979	0.45098723	1.6840690	21	3 21.9	22.0
199802 2007 BA_{18}	16.9	X	27.26727	240.96874	347.24178	5.11002	0.2100698	0.29086608	2.2560081	21	6 9.1	18.3
199803 2007 BJ_{66}	17.0	X	222.02547	134.17516	147.70234	1.91303	0.1742110	0.26953413	2.3735235	21	—	—
199804 2007 BD_{70}	16.2	X	157.80239	36.27948	179.40705	6.84904	0.1119715	0.23914837	2.5705404	21	11 5.3	20.1
199805 2007 BE_{70}	15.9	X	17.70846	125.23715	189.23730	12.94158	0.1822538	0.22769908	2.6560028	21	9 30.6	18.7
199806 2007 CA	16.6	X	313.72797	271.04754	24.96216	20.75339	0.0734125	0.36087640	1.9538763	21	4 23.6	18.4
199807 2007 CY_{51}	17.0	X	303.73203	299.76342	301.41435	3.25219	0.1999497	0.27627321	2.3347669	21	1 17.9	20.1
199808 2007 CA_{57}	16.6	X	270.95411	94.25972	122.78435	3.18511	0.1343128	0.26599684	2.3945196	21	—	—
199809 2007 CE_{61}	17.0	X	256.24197	98.51806	357.46307	16.58931	0.0691464	0.38012857	1.8873352	21	10 12.0	18.8
199810 2007 DO_{8}	14.5	X	182.26234	157.06901	100.15837	28.84193	0.1222623	0.18013045	3.1051169	21	—	—
199811 2007 DD_{13}	16.8	X	267.62619	6.95422	197.59258	1.71139	0.1301259	0.26448018	2.4036651	21	—	—
199812 2007 DE_{17}	17.2	X	355.69732	196.86358	104.49852	4.06719	0.1806010	0.30053566	2.2073543	21	7 29.3	18.3
199813 2007 DN_{28}	17.9	X	102.62968	283.03510	25.69047	2.39501	0.1428288	0.31995223	2.1171223	21	—	—
199814 2007 DD_{33}	16.9	X	216.85190	211.22662	22.08627	1.50248	0.1289800	0.25759184	2.4463278	21	—	—
199815 2007 DL_{34}	17.4	X	276.96489	113.20869	129.47472	1.85881	0.1461667	0.27012203	2.3700784	21	—	—
199816 2007 DR_{36}	17.5	X	5.56393	110.21610	118.82504	1.19270	0.1845121	0.28362151	2.2942634	21	4 13.4	19.1
199817 2007 DY_{49}	17.3	X	289.52820	42.45772	356.70793	19.67786	0.1255544	0.37836904	1.8931818	21	9 7.1	18.5
199818 2007 DG_{53}	17.2	X	240.44618	44.73238	243.43735	2.50701	0.1468176	0.27115299	2.3640670	21	1 19.4	20.8
199819 2007 DU_{53}	17.0	X	213.11450	5.32389	305.67656	1.69044	0.2174963	0.26902615	2.3765104	21	1 24.2	21.0
199820 2007 DF_{71}	17.2	X	286.92137	197.43066	125.32689	3.01084	0.1408473	0.28915787	2.2648844	21	4 24.7	20.1
199821 2007 DA_{83}	15.1	X	200.04644	63.60614	176.02539	24.19813	0.2839753	0.17907370	3.1173209	21	12 22.4	20.9
199822 2007 DJ_{85}	17.0	X	252.35539	161.66190	156.33631	6.86313	0.0914113	0.28483292	2.2877537	21	3 13.1	20.1
199823 2007 DL_{97}	16.5	X	106.37173	261.61586	349.14134	4.53094	0.1736455	0.23718484	2.5847076	21	10 29.3	20.6
199824 2007 DO_{97}	17.4	X	201.51593	332.44909	171.95763	4.06661	0.0884476	0.30839396	2.1696956	21	9 29.1	20.1
199825 2007 DX_{97}	18.0	X	73.01380	55.96390	191.30508	1.92274	0.1604405	0.29923012	2.2137701	21	9 25.5	20.6
199826 2007 DB_{105}	17.6	X	319.32178	319.02762	340.85821	1.94130	0.2177851	0.28805996	2.2706356	21	4 23.6	20.0
199827 2007 DE_{105}	18.4	X	97.44591	51.69678	178.22861	3.82885	0.0846170	0.30341172	2.1933830	21	9 22.4	21.2
199828 2007 DK_{105}	16.9	X	44.13565	160.59892	319.37882	3.01056	0.0261221	0.27330290	2.3516529	21	1 18.7	19.5
199829 2007 DL_{112}	16.8	X	67.96420	75.97764	178.07467	6.44278	0.1375640	0.22927043	2.6438533	21	9 17.7	20.3
199830 2007 EH_{8}	16.8	X	331.40876	176.94162	95.14680	2.82993	0.2252647	0.28415484	2.2913917	21	4 4.0	19.0
199831 2007 EA_{15}	17.8	X	277.79673	310.45406	340.19542	5.58616	0.1860960	0.28112675	2.3078165	21	2 24.0	21.3
199832 2007 EX_{20}	17.4	X	219.27750	279.35822	14.10063	2.52233	0.2165501	0.26640869	2.3920511	21	1 8.9	21.4
199833 2007 EP_{23}	15.9	X	318.74243	150.72433	133.94870	5.02845	0.1819285	0.21341286	2.7732498	21	4 19.3	19.3
199834 2007 EG_{24}	17.1	X	331.02858	77.74000	143.77224	4.27273	0.1281037	0.27535188	2.3399721	21	2 5.7	19.6
199835 2007 EK_{25}	17.2	X	270.42065	280.41260	314.49748	0.50609	0.1324621	0.26457809	2.4030721	21	—	—
199836 2007 EE_{27}	17.5	X	185.89550	328.29669	329.51136	3.67673	0.2109280	0.25776882	2.4452079	21	—	—
199837 2007 EC_{30}	17.3	X	318.20097	160.86260	145.73485	7.05532	0.1725122	0.28965752	2.2622791	21	5 13.9	19.7
199838 Hafili	15.8	X	358.95550	240.29762	18.95471	8.25716	0.1641279	0.21696210	2.7429220	21	5 25.1	18.7
199839 2007 ER_{45}	17.5	X	235.76599	220.28885	30.99783	1.01564	0.0899856	0.26155394	2.4215599	21	—	—
199840 2007 EB_{47}	17.3	X	232.86703	50.25222	198.92330	2.37630	0.1483918	0.25998175	2.4313126	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199841 2007 EC_{47}	16.9	X	240.43127	245.33341	355.87267	2.21350	0.1453541	0.26022325	2.4298082	21	—	—
199842 2007 EE_{47}	17.4	X	38.11781	37.09374	191.41956	3.11923	0.0860811	0.28934464	2.2639097	21	6 19.5	19.6
199843 2007 EX_{53}	16.2	X	320.90553	254.89985	41.30405	3.32769	0.1802428	0.21328024	2.7743993	21	5 6.4	19.2
199844 2007 EX_{63}	17.3	X	22.77683	48.21864	158.94070	4.96560	0.0610972	0.28595558	2.2817619	21	4 19.7	19.6
199845 2007 EN_{71}	16.9	X	209.48693	244.93098	55.96559	2.45725	0.2012583	0.26492229	2.4009902	21	1 9.8	20.8
199846 2007 EY_{71}	16.7	X	70.82780	205.58319	27.32697	4.42847	0.1289081	0.29657249	2.2269757	21	8 29.9	19.3
199847 2007 EJ_{75}	16.5	X	211.29367	320.59826	358.61870	6.28845	0.1319821	0.27018904	2.3696865	21	2 1.9	20.1
199848 2007 EK_{75}	15.9	X	17.85206	75.02500	186.36093	14.45675	0.1245754	0.22176902	2.7031416	21	7 5.4	19.2
199849 2007 EB_{76}	17.2	X	276.84986	248.34573	11.13156	1.26353	0.1566423	0.27033610	2.3688270	21	1 19.2	20.6
199850 2007 EC_{79}	16.6	X	285.94450	277.72408	305.75202	1.72812	0.1353082	0.26649421	2.3915393	21	—	—
199851 2007 ER_{79}	16.6	X	10.50393	116.31823	195.98933	5.67309	0.2157442	0.22682775	2.6628002	21	9 16.1	19.0
199852 2007 EB_{80}	15.9	X	97.25074	289.08453	348.65188	17.21849	0.2315222	0.23818885	2.5774392	21	11 23.5	20.5
199853 2007 EP_{83}	17.2	X	303.41041	47.00507	185.94595	3.90111	0.2109872	0.27149110	2.3621038	21	1 6.2	20.6
199854 2007 EL_{86}	15.8	X	58.77419	242.18719	4.51880	6.84938	0.2598660	0.22524825	2.6752339	21	9 15.4	19.2
199855 2007 EO_{87}	17.1	X	181.06679	260.14671	200.69844	21.98248	0.0650038	0.36049016	1.9552716	21	6 29.8	20.0
199856 2007 ER_{91}	17.0	X	169.03824	173.16711	108.62470	2.31352	0.1644514	0.25974219	2.4328073	21	—	—
199857 2007 EC_{97}	16.5	X	25.43249	113.17793	198.48160	11.86390	0.1429916	0.23088767	2.6314930	21	10 4.5	19.3
199858 2007 EW_{97}	17.0	X	185.47779	330.77217	167.80364	22.88805	0.0172848	0.37643699	1.8996540	21	9 11.9	18.7
199859 2007 EB_{101}	16.8	X	207.08131	170.10500	111.81880	4.18140	0.1124365	0.26309010	2.4121244	21	—	—
199860 2007 EP_{113}	16.8	X	45.22386	17.22413	208.79303	4.78344	0.1494406	0.29046059	2.2581073	21	7 7.6	18.9
199861 2007 EG_{117}	16.3	X	291.17853	181.32451	149.00093	5.53696	0.1241787	0.21580291	2.7527357	21	5 19.5	20.0
199862 2007 EY_{118}	16.4	X	342.33136	227.90191	95.70238	2.45777	0.1155175	0.22486538	2.6782698	21	8 1.9	19.3
199863 2007 EM_{119}	16.2	X	88.33696	251.83167	29.03829	12.45660	0.1731175	0.23576203	2.5950963	21	11 16.7	20.2
199864 2007 EN_{119}	16.5	X	273.07853	247.57326	37.32344	6.95418	0.1041737	0.27335593	2.3513488	21	2 24.2	19.9
199865 2007 ED_{133}	17.3	X	71.00382	36.47375	169.55096	3.21116	0.0698697	0.29379985	2.2409646	21	7 7.4	19.7
199866 2007 EQ_{135}	17.9	X	316.37631	108.90262	181.35777	4.77491	0.1310693	0.28632959	2.2797745	21	4 21.9	20.3
199867 2007 ES_{141}	17.7	X	42.81508	345.09143	200.61185	5.50359	0.1009829	0.28431850	2.2905123	21	4 23.4	19.8
199868 2007 EF_{145}	17.3	X	23.30826	255.92995	52.38133	2.76495	0.2076253	0.30191189	2.2006412	21	10 20.4	19.2
199869 2007 EN_{165}	16.7	X	300.27956	100.13509	157.91793	6.45723	0.0802560	0.27534162	2.3400302	21	2 20.9	19.6
199870 2007 EP_{165}	17.4	X	190.10751	92.92238	27.26183	22.95201	0.0639041	0.36740098	1.9306750	21	8 31.8	20.2
199871 2007 EG_{166}	17.1	X	315.46896	217.65463	343.34733	1.78369	0.1360734	0.27037159	2.3686197	21	—	—
199872 2007 EP_{169}	16.5	X	277.91484	164.08572	146.38764	2.95766	0.1235430	0.21013575	2.8020083	21	4 7.1	20.4
199873 2007 EQ_{169}	17.2	X	266.80199	249.55624	37.40748	5.06153	0.1909092	0.27143219	2.3624456	21	2 11.5	20.9
199874 2007 ER_{171}	17.5	X	73.45255	241.70764	19.97388	7.77819	0.0879690	0.29946725	2.2126013	21	10 6.6	20.0
199875 2007 EB_{196}	17.0	X	88.40712	209.51672	18.69936	20.74310	0.0485512	0.37182612	1.9153264	21	9 18.5	19.1
199876 2007 EE_{198}	17.3	X	26.86671	96.46705	128.44936	3.26195	0.1153150	0.28445568	2.2897759	21	5 26.6	19.2
199877 2007 ES_{199}	16.7	X	262.53033	138.37787	121.06581	2.14077	0.1486159	0.26881493	2.3777551	21	1 5.6	20.4
199878 2007 EV_{202}	15.5	X	187.63117	170.62554	71.97677	3.20663	0.2000461	0.17953380	3.1119926	21	12 20.8	20.7
199879 2007 EJ_{213}	16.7	X	163.86552	304.82824	10.18278	2.61569	0.1744275	0.26146556	2.4221055	21	—	—
199880 2007 EP_{213}	16.7	X	161.65582	290.00655	26.41187	2.31725	0.1241688	0.26179584	2.4200679	21	—	—
199881 2007 ER_{213}	16.8	X	13.25657	156.65259	187.31399	6.93538	0.2168590	0.30660023	2.1781497	21	11 29.5	18.9
199882 2007 EZ_{213}	17.1	X	298.13098	52.39248	200.89945	6.84421	0.0903456	0.27227412	2.3575729	21	2 8.8	20.3
199883 2007 ES_{214}	16.7	X	336.72619	131.82453	137.66814	5.00455	0.1534989	0.28428431	2.2906960	21	4 23.6	18.9
199884 2007 EP_{218}	16.3	X	105.97422	336.18071	2.70188	11.88516	0.2019176	0.25358379	2.4720375	21	—	—
199885 2007 ED_{220}	17.1	X	225.23956	348.77365	33.30542	7.29967	0.1262249	0.28535267	2.2849748	21	5 3.7	20.5
199886 2007 FH	17.2	X	294.39800	243.51473	19.68537	4.98130	0.2127175	0.27550268	2.3391182	21	2 5.7	20.6
199887 2007 FF_{10}	16.9	X	314.32046	257.44947	340.29323	5.04812	0.1558915	0.27288814	2.3540352	21	2 2.4	19.9
199888 2007 FW_{11}	16.8	X	304.63126	144.79354	163.71188	6.40828	0.1698471	0.29143736	2.2530590	21	4 24.6	19.5
199889 2007 FM_{19}	16.8	X	72.33233	87.52188	178.78776	14.50236	0.1652542	0.23401331	2.6080085	21	10 15.8	20.5
199890 2007 FT_{30}	17.0	X	166.43147	290.71835	9.66264	1.37993	0.1668385	0.25604011	2.4562018	21	—	—
199891 2007 FG_{34}	17.1	X	204.31475	83.91687	172.32068	0.74341	0.1396831	0.25744800	2.4472389	21	—	—
199892 2007 FO_{35}	16.7	X	32.83778	14.12872	199.51115	21.07557	0.0591155	0.35848646	1.9625507	21	5 9.9	18.4
199893 2007 FC_{37}	16.9	X	239.77775	262.98810	30.98106	6.28179	0.1299003	0.26768636	2.3844335	21	1 29.7	20.6
199894 2007 FO_{37}	16.4	X	350.25202	100.63058	173.74292	4.29855	0.0696247	0.21692194	2.7432606	21	6 7.6	19.7
199895 2007 FK_{38}	16.6	X	149.60792	270.69974	282.71470	3.50506	0.2716928	0.23557553	2.5964658	21	9 29.1	21.3
199896 2007 FB_{39}	16.1	X	82.81465	239.05775	356.95619	12.75373	0.2267179	0.22662835	2.6643620	21	9 23.2	19.9
199897 2007 FO_{41}	17.3	X	262.67653	296.32721	4.16493	6.93407	0.1371785	0.27667183	2.3325238	21	2 27.7	20.6
199898 2007 FD_{42}	17.2	X	82.26795	107.28487	196.31310	3.28488	0.1426669	0.24265864	2.5456902	21	12 9.3	21.0
199899 2007 GV	15.9	X	156.11451	32.23918	159.34803	10.78028	0.1437017	0.23697968	2.5861992	21	10 5.3	20.0
199900 Brunoganz	15.8	X	43.10548	234.58741	58.01660	15.57146	0.1646597	0.22834683	2.6509776	21	10 16.4	19.3
199901 2007 GG_{5}	16.7	X	201.52166	200.17050	136.63953	3.75093	0.2316342	0.26805779	2.3822304	21	2 15.6	20.5
199902 2007 GC_{9}	16.8	X	317.27758	171.84386	73.02126	3.40506	0.1847623	0.27375735	2.3490496	21	2 11.6	19.8
199903 2007 GO_{14}	15.8	X	306.45819	143.80401	153.13433	12.46104	0.3007621	0.21139923	2.7908326	21	3 31.8	19.7
199904 2007 GW_{14}	16.0	X	38.32237	56.84250	213.36828	10.35225	0.1577922	0.22542766	2.6738144	21	8 26.4	19.3
199905 2007 GN_{16}	16.7	X	199.48007	122.39956	223.72457	6.29734	0.1321791	0.26941483	2.3742241	21	2 19.5	20.4
199906 2007 GS_{16}	16.5	X	32.01933	288.66581	28.60012	12.98916	0.1743422	0.23003719	2.6379751	21	10 27.3	19.6
199907 2007 GB_{17}	16.4	X	48.47098	295.20242	20.76250	2.48938	0.1862018	0.23268285	2.6179407	21	11 19.9	19.9
199908 2007 GK_{17}	16.9	X	106.65800	78.39743	219.86584	16.26742	0.1900836	0.24057490	2.5603687	21	12 26.6	21.3
199909 2007 GY_{18}	16.6	X	132.45194	345.45980	34.65223	3.09290	0.1834018	0.26301713	2.4125706	21	2 2.7	19.8
199910 2007 GM_{19}	17.7	X	200.01992	255.67160	31.89699	1.39149	0.1756672	0.25634072	2.4542812	21	—	—
199911 2007 GH_{20}	15.5	X	80.46960	129.49850	228.53152	8.11311	0.0416479	0.18022331	3.1040502	21	—	—
199912 2007 GO_{21}	15.9	X	102.15990	165.07454	166.63163	1.07896	0.1736584	0.17520857	3.1629997	21	—	—
199913 2007 GO_{22}	17.0	X	232.52565	209.32697	44.54192	3.14100	0.1643915	0.25724585	2.4485208	21	—	—
199914 2007 GW_{22}	16.3	X	111.87396	92.19019	207.82219	7.54635	0.1981630	0.24158689	2.5532136	21	—	—
199915 2007 GC_{23}	16.1	X	112.91339	166.63015	214.61187	6.72769	0.2367523	0.25897352	2.4376189	21	1 16.3	19.1
199916 2007 GN_{23}	17.2	X	207.88234	90.84382	179.70945	1.05320	0.1555610	0.25517140	2.4617733	21	—	—
199917 2007 GL_{26}	17.4	X	290.09949	32.66726	185.59636	0.34079	0.1290681	0.26402035	2.4064552	21	—	—
199918 2007 GO_{26}	17.2	X	115.29358	116.07924	156.26567	5.66706	0.1706679	0.23986247	2.5654360	21	12 5.0	21.4
199919 2007 GJ_{27}	15.8	X	219.96239	308.47241	85.23775	5.51104	0.0762925	0.21270351	2.7794121	21	5 21.9	19.9
199920 2007 GC_{28}	16.1	X	307.91814	137.94029	160.82360	5.98872	0.0983947	0.21318913	2.7751897	21	5 5.0	19.8

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
199921 2007 GS_{29}	15.7	X	116.98771	37.84350	225.00210	11.84593	0.1253907	0.23690250	2.5867609	21	11 22.0	19.6
199922 2007 GX_{31}	15.7	X	60.53163	314.03379	312.13428	12.35525	0.1802091	0.22709490	2.6607116	21	9 23.9	19.4
199923 2007 GU_{33}	16.7	X	193.47924	131.01306	158.08032	0.47821	0.1354523	0.18642462	3.0348265	21	—	—
199924 2007 GC_{34}	16.8	X	16.94030	238.00113	318.50609	3.04976	0.1083930	0.27921289	2.3183504	21	3 20.2	18.9
199925 2007 GZ_{35}	17.0	X	207.70068	229.56005	55.94019	6.61611	0.1159672	0.26018921	2.4300201	21	—	—
199926 2007 GG_{36}	17.6	X	149.36354	114.12198	124.34220	2.69088	0.1468743	0.31033788	2.1606256	21	12 3.4	20.6
199927 2007 GO_{36}	16.5	X	113.89317	215.95667	49.12214	10.42804	0.1732558	0.23758880	2.5817771	21	11 23.2	20.5
199928 2007 GB_{37}	15.4	X	170.25996	234.73511	49.73993	9.51748	0.1970766	0.18115962	3.0933456	21	—	—
199929 2007 GG_{37}	17.3	X	299.56135	240.65396	51.10933	7.67626	0.1127459	0.27888790	2.3201511	21	4 5.2	20.2
199930 2007 GA_{39}	16.4	X	77.19695	103.11762	149.02704	2.63609	0.1534542	0.22897816	2.6461026	21	9 29.9	20.1
199931 2007 GJ_{40}	16.5	X	241.44946	162.97375	163.87711	2.20764	0.0615126	0.20476704	2.8507733	21	3 23.9	20.7
199932 2007 GL_{40}	16.6	X	119.63036	76.96443	169.44013	1.78274	0.0851570	0.23585961	2.5943805	21	11 2.0	20.2
199933 2007 GV_{40}	17.4	X	230.64542	55.84279	213.46680	6.97447	0.0991995	0.26073129	2.4266508	21	—	—
199934 2007 GR_{45}	17.3	X	229.54980	101.19153	162.66227	3.14393	0.1980625	0.25803043	2.4435549	21	—	—
199935 2007 GB_{48}	15.9	X	131.12595	190.20502	111.46087	2.43712	0.1680654	0.17468058	3.1693702	21	—	—
199936 2007 GO_{49}	15.6	X	35.36771	105.91376	186.89596	13.63034	0.1159511	0.22777355	2.6554239	21	9 19.4	18.8
199937 2007 GU_{49}	16.7	X	49.63675	325.52210	201.11901	21.71168	0.0462441	0.35099469	1.9903786	21	3 17.6	18.6
199938 2007 GD_{51}	16.9	X	339.35679	30.19523	214.62331	5.74431	0.0886627	0.27709676	2.3301386	21	3 28.6	19.3
199939 2007 GU_{51}	15.6	X	117.39954	190.40720	118.75408	6.12632	0.1281368	0.17693469	3.1423947	21	—	—
199940 2007 GD_{59}	17.1	X	272.86650	138.77379	238.87458	3.43578	0.1524407	0.29101975	2.2552139	21	6 20.6	19.8
199941 2007 GD_{61}	16.9	X	69.98451	306.11182	265.16284	2.28491	0.0698155	0.29031778	2.2588477	21	7 14.0	19.5
199942 2007 GQ_{65}	17.2	X	294.36831	0.02646	5.74975	3.72296	0.0497380	0.29280914	2.2460166	21	7 24.6	19.7
199943 2007 GO_{67}	16.5	X	312.66694	9.54084	315.05944	1.25403	0.2233121	0.21423763	2.7661276	21	5 25.2	19.9
199944 2007 GM_{73}	16.9	X	36.04632	149.58213	110.82107	6.73423	0.0931351	0.29175153	2.2514413	21	8 7.9	19.0
199945 2007 GC_{75}	15.7	X	284.36137	168.47744	160.93303	4.67036	0.1317026	0.21044957	2.7992220	21	5 8.5	19.5
199946 2007 HE_{2}	17.4	X	226.67730	70.24325	202.95688	3.04799	0.0731637	0.26220777	2.4175326	21	—	—
199947 Qaidam	15.3	X	56.15678	242.10180	56.48215	16.29519	0.2918076	0.23052238	2.6342722	21	11 21.0	19.2
199948 2007 HK_{9}	16.2	X	172.80110	88.15018	272.61173	0.94311	0.0836385	0.19883333	2.9072113	21	2 20.1	20.6
199949 2007 HR_{15}	15.6	X	43.88796	110.79858	179.90244	11.56132	0.1177996	0.22784682	2.6548545	21	10 1.3	18.9
199950 Sierpc	16.2	X	192.87765	277.87437	25.55916	7.71680	0.1397383	0.26369468	2.4084361	21	—	—
199951 2007 HE_{24}	16.0	X	138.55407	352.82499	249.88171	3.14441	0.1963172	0.23718237	2.5847256	21	11 18.8	20.4
199952 2007 HZ_{25}	16.7	X	150.81754	34.81723	207.99778	6.91627	0.0920478	0.24021101	2.5629538	21	12 1.2	20.6
199953 Mingnaiben	16.2	X	262.00324	160.15823	116.12421	6.80519	0.0923356	0.26930979	2.3748415	21	1 30.5	19.5
199954 2007 HP_{28}	17.0	X	33.13941	91.02350	189.81795	12.48585	0.2546668	0.22638593	2.6662636	21	9 21.1	20.0
199955 2007 HD_{30}	16.4	X	163.31552	309.60572	42.84177	4.20931	0.2213264	0.26557751	2.3970395	21	2 3.9	20.2
199956 2007 HK_{35}	17.2	X	201.00910	235.36215	22.75790	4.58247	0.1614028	0.25258916	2.4785228	21	—	—
199957 2007 HA_{38}	16.7	X	146.65719	262.01682	57.53792	6.21279	0.2046622	0.25448512	2.4661971	21	—	—
199958 2007 HT_{41}	16.2	X	309.61206	81.99585	224.81404	7.82419	0.0995302	0.21260220	2.7802950	21	5 16.6	19.6
199959 2007 HJ_{44}	16.2	X	186.70911	258.79931	10.62633	2.82302	0.1860289	0.18015881	3.1047911	21	—	—
199960 2007 HZ_{47}	16.9	X	138.01727	190.90959	193.38304	6.39089	0.1413074	0.26554012	2.3972645	21	2 5.4	20.1
199961 2007 HF_{48}	17.4	X	127.87123	89.42843	191.52376	5.66463	0.1401476	0.24251670	2.5466833	21	12 24.9	21.4
199962 2007 HB_{50}	16.7	X	63.77948	207.97222	146.89834	5.02741	0.0700884	0.24468110	2.5316428	21	—	—
199963 2007 HD_{52}	15.1	X	79.42780	226.06756	191.55776	9.99561	0.0907631	0.19083427	2.9878937	21	1 10.7	19.2
199964 2007 HQ_{53}	17.0	X	104.43348	300.24263	181.48824	5.76982	0.0410945	0.27974457	2.3154119	21	4 20.9	19.7
199965 2007 HG_{65}	16.1	X	185.39752	217.84216	80.40513	13.36176	0.1606481	0.25590642	2.4570572	21	—	—
199966 2007 HL_{65}	15.7	X	100.92364	83.64641	173.35487	11.80077	0.0494854	0.23383216	2.6093553	21	10 23.6	19.4
199967 2007 HG_{67}	17.6	X	203.17616	81.25884	161.45382	2.97226	0.1608578	0.25255388	2.4787536	21	—	—
199968 2007 HE_{68}	17.1	X	230.16329	213.78758	75.65064	3.43236	0.0887128	0.26644526	2.3918322	21	1 13.6	20.6
199969 2007 HV_{72}	16.2	X	149.85220	134.76736	134.44312	1.99913	0.1569190	0.17456172	3.1708087	21	12 20.7	21.5
199970 2007 HE_{75}	16.2	X	182.48272	126.13948	134.67700	1.93632	0.1303697	0.17935026	3.1141155	21	—	—
199971 2007 HA_{76}	17.3	X	334.87134	2.00724	193.37923	3.07432	0.1621627	0.26845357	2.3798884	21	1 2.6	20.2
199972 2007 HC_{84}	17.0	X	219.76835	216.60808	223.41128	20.14561	0.1172518	0.36487650	1.9395700	21	7 12.8	20.0
199973 2007 HX_{85}	16.3	X	79.17569	141.97174	188.20009	8.61742	0.1770160	0.23935110	2.5690887	21	—	—
199974 2007 HY_{89}	17.4	X	286.15419	289.36926	5.69171	6.22745	0.1367301	0.28105709	2.3081978	21	3 17.2	20.2
199975 2007 HG_{90}	16.3	X	82.31177	56.29084	204.80841	12.58024	0.1531716	0.23009335	2.6375458	21	10 16.3	20.0
199976 2007 JR	15.8	X	49.98486	168.97073	177.07874	14.72263	0.1079687	0.23635114	2.5907823	21	12 20.3	19.6
199977 2007 JB_{1}	17.1	X	116.11778	248.40545	38.57109	4.38760	0.2399047	0.24113246	2.5564203	21	12 24.8	21.5
199978 2007 JZ_{1}	15.6	X	105.04124	215.19022	85.84575	11.52206	0.1610583	0.23861182	2.5743924	21	12 28.4	19.7
199979 2007 JS_{4}	15.8	X	107.88120	72.65334	188.91498	7.70937	0.1618510	0.23338059	2.6127201	21	11 14.5	19.9
199980 2007 JN_{5}	17.1	X	227.11305	214.75618	48.49546	2.32373	0.1244720	0.26008817	2.4306494	21	—	—
199981 2007 JQ_{12}	16.0	X	76.25080	53.20653	184.48935	10.31912	0.1469439	0.22349326	2.6892206	21	9 6.2	19.7
199982 2007 JG_{13}	16.4	X	95.26186	300.87736	357.50802	2.54582	0.1863492	0.23768212	2.5811012	21	12 17.9	20.5
199983 2007 JJ_{13}	15.8	X	108.06982	264.41351	59.66841	13.53836	0.1946694	0.24250783	2.5467455	21	—	—
199984 2007 JP_{16}	16.7	X	322.81771	62.39856	195.72152	6.72636	0.0819278	0.27808546	2.3246123	21	3 23.4	19.4
199985 2007 JG_{17}	17.8	X	69.17858	61.51208	127.74282	1.63063	0.0971410	0.28448898	2.2895972	21	6 14.1	20.3
199986 Chervone	15.2	X	354.77254	221.12031	85.67090	13.79216	0.1636553	0.21868834	2.7284686	21	8 2.3	18.1
199987 2007 JL_{21}	15.6	X	173.23180	256.82739	14.27100	9.73327	0.2111182	0.17694257	3.1423013	21	—	—
199988 2007 JM_{21}	16.2	X	339.45134	7.01397	288.22012	2.30009	0.1735734	0.21401274	2.7680651	21	6 9.2	19.0
199989 2007 JK_{23}	15.6	X	71.09056	227.48665	88.53456	8.54030	0.2036871	0.23401878	2.6079679	21	12 17.8	19.5
199990 2007 JT_{23}	16.8	X	90.42149	89.78799	205.55816	1.74502	0.2148618	0.23552640	2.5968268	21	12 12.1	20.8
199991 2007 JX_{24}	17.1	X	37.83331	205.54225	142.30029	0.77338	0.1277377	0.23676765	2.5877430	21	12 9.9	20.4
199992 2007 JW_{25}	16.1	X	222.59541	280.32003	177.11698	6.08168	0.0700306	0.22561964	2.6722974	21	8 15.2	19.8
199993 2007 JP_{27}	16.0	X	240.21235	3.33942	149.69807	13.35949	0.1850208	0.24262916	2.5458964	21	11 9.2	19.8
199994 2007 JJ_{29}	17.1	X	26.12374	11.97610	213.43633	4.48454	0.1762674	0.28219974	2.3019629	21	5 30.3	18.6
199995 2007 JV_{33}	16.0	X	156.32996	135.79470	186.53094	10.28858	0.1725636	0.18139223	3.0907006	21	—	—
199996 2007 JA_{34}	16.6	X	291.00392	188.79959	216.46125	3.51599	0.0181106	0.23127570	2.6285488	21	9 12.5	20.1
199997 2007 JB_{36}	15.2	X	53.34530	212.45141	101.73819	33.84110	0.1881106	0.23209164	2.6223846	21	12 4.1	19.3
199998 2007 JU_{39}	16.3	X	72.15915	270.46583	353.85028	7.68275	0.2058026	0.22706051	2.6609802	21	10 13.4	20.1
199999 2007 JZ_{39}	16.1	X	345.68248	172.00022	145.60608	5.75430	0.1233984	0.21818682	2.7326481	21	7 28.5	19.0
200000 2007 JT_{40}	15.8	X	359.62431	203.26863	116.87248	7.70324	0.1530036	0.22067981	2.7120289	21	9 1.7	18.6