Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
2060 Chiron	6.0	X	153.57906	339.67693	209.20064	6.94972	0.3822543	0.01954746	13.65	8.4	18.9	Ct	9 17.6	18.7
5145 Pholus	7.1	X	101.50491	355.12034	119.35271	24.67494	0.5709873	0.01070263	20.39	8.7	32.0	Ct	6 19.2	21.5
7066 Nessus	9.6	X	75.49442	170.68628	31.14203	15.67096	0.5201864	0.00809163	24.57	11.8	37.4	Ct	9 3.7	24.1
8405 Asbolus	9.1	X	71.40977	290.05829	6.13229	17.63753	0.6207036	0.01294248	17.97	6.8	29.1	Ct	12 5.8	22.4
10199 Chariklo	6.6	X	77.66930	242.89591	300.41635	23.38236	0.1720937	0.01566101	15.82	13.1	18.5	Ct	7 4.1	18.5
10370 Hylonome	8.6	X	63.26894	7.02815	178.07581	4.14443	0.2481691	0.00781342	25.15	18.9	31.4	Ct	6 27.6	22.3
15760 1992 QB_1	7.1	X	30.94075	0.64562	359.43480	2.18746	0.0659168	0.00340822	43.73	40.8	46.6	Tn	10 28.4	23.3
15788 1993 SB	7.9	X	352.14594	79.40832	354.85554	1.93871	0.3168094	0.00402637	39.13	26.7	51.5	Tn	11 21.0	22.2
15789 1993 SC	7.0	X	68.99994	315.61752	354.70165	5.16249	0.1852261	0.00399383	39.34	32.1	46.6	Tn	11 1.8	22.8
15807 1994 GV_9	7.4	X	69.19776	311.48647	176.63225	0.56081	0.0619708	0.00336991	44.06	41.3	46.8	Tn	4 13.7	23.8
15809 1994 JS	7.8	X	352.89366	236.76254	56.24474	14.02426	0.2205237	0.00356689	42.42	33.1	51.8	Tn	7 3.2	23.0
15810 1994 JR_1	7.6	X	30.95020	102.37467	144.70843	3.80624	0.1217788	0.00396236	39.55	34.7	44.4	Tn	7 7.9	23.1
15820 1994 TB	7.3	X	357.90343	99.12702	317.40053	12.13983	0.3129140	0.00400968	39.24	27.0	51.5	Tn	11 11.9	21.6
15836 1995 DA_2	7.7	X	56.11757	337.89518	127.48508	6.55397	0.0746008	0.00446003	36.55	33.8	39.3	Tn	3 10.4	23.1
15874 1996 TL_{66}	5.4	X	7.78754	184.48748	217.84822	24.02050	0.5765662	0.00130995	82.72	35.0	130.4	Sd	12 8.1	21.2
15875 1996 TP_{66}	7.0	X	25.53455	75.13034	316.77233	5.69306	0.3276523	0.00401466	39.21	26.4	52.1	Tn	12 14.6	21.6
15883 1997 CR_{29}	7.1	X	68.62058	301.91513	127.19327	19.15184	0.2107883	0.00304024	47.19	37.2	57.1	Tn	3 4.9	23.7
16684 1994 JQ_1	6.9	X	331.20664	246.37380	25.58236	3.73753	0.0550220	0.00333017	44.41	42.0	46.9	Tn	5 20.1	23.1
19255 1994 VK_8	7.0	X	262.82952	119.27872	72.39214	1.48886	0.0359417	0.00353493	42.68	41.1	44.2	Tn	12 22.7	23.3
19299 1996 SZ_4	7.9	X	9.52251	30.07833	16.02018	4.74314	0.2542443	0.00398850	39.38	29.4	49.4	Tn	11 24.7	22.6
19308 1996 TO_{66}	4.5	X	138.40025	239.67179	355.26841	27.47603	0.1227006	0.00347873	43.14	37.8	48.4	Tn	10 7.4	21.3
19521 Chaos	4.8	X	338.48055	59.04681	50.05416	12.06053	0.1016329	0.00320260	45.58	41.0	50.2	Tn	12 14.2	21.0
20000 Varuna	3.6	X	111.80943	266.32525	97.33497	17.19734	0.0513959	0.00350171	42.95	40.7	45.2	Tn	1 20.7	20.0
20108 1995 QZ_9	7.7	X	62.76886	141.32954	188.08903	19.59157	0.1448366	0.00400322	39.28	33.6	45.0	Tn	11 12.7	23.5
20161 1996 TR_{66}	7.5	X	55.62754	308.67257	343.10815	12.43656	0.3986788	0.00300065	47.61	28.6	66.6	Tn	10 23.1	23.9
24835 1995 SM_{55}	4.8	X	329.48655	72.55930	21.10922	27.09624	0.1019409	0.00366909	41.63	37.4	45.9	Tn	11 11.7	20.7
24952 1997 QJ_4	7.6	X	339.53584	82.49035	346.88154	16.57972	0.2224704	0.00402356	39.15	30.4	47.9	Tn	10 24.8	22.6
24978 1998 HJ_{151}	7.5	X	66.57452	132.96918	50.39368	2.38958	0.0521207	0.00342319	43.60	41.3	45.9	Tn	6 5.8	23.8
26181 1996 GQ_{21}	5.2	X	10.72415	356.99461	194.09026	13.32952	0.5970962	0.00106326	95.07	38.3	151.8	Sd	5 21.3	21.6
26308 1998 SM_{165}	5.8	X	47.46712	130.23079	183.20862	13.52113	0.3702155	0.00301778	47.43	29.9	65.0	Tn	11 6.6	21.9
26375 1999 DE_9	5.0	X	26.91647	160.25872	322.97786	7.61721	0.4201711	0.00236159	55.85	32.4	79.3	Sd	3 24.6	20.9
28978 Ixion	3.6	X	283.88664	298.83604	70.99634	19.58723	0.2418335	0.00394564	39.66	30.1	49.3	Tn	6 15.7	19.6
29981 1999 TD_{10}	8.7	X	6.93816	172.33860	184.79111	5.95860	0.8709479	0.00106244	95.12	12.3	178.0	Sd	—	—
31824 Elatus	10.1	X	170.73576	281.61845	87.15717	5.24466	0.3798991	0.02428178	11.81	7.3	16.3	Ct	3 25.3	22.2
32532 Thereus	9.1	X	192.91136	86.32191	205.32739	20.35299	0.1978508	0.02840024	10.64	8.5	12.7	Ct	1 12.7	20.2
32929 1995 QY_9	8.0	X	16.65067	24.71715	342.08905	4.83780	0.2599119	0.00397832	39.45	29.2	49.7	Tn	10 27.9	22.8
33001 1997 CU_{29}	6.5	X	246.86756	264.05868	350.25487	1.45569	0.0395438	0.00343160	43.53	41.8	45.3	Tn	2 5.5	23.0
33128 1998 BU_{48}	7.1	X	74.73809	282.85046	132.76568	14.24523	0.3811146	0.00511634	33.36	20.6	46.1	Tn	3 16.9	22.5
33340 1998 VG_{44}	6.5	X	5.24797	324.69479	127.97475	3.03626	0.2503347	0.00401990	39.17	29.4	49.0	Tn	—	—
35671 1998 SN_{165}	5.6	X	284.40720	269.39774	192.12046	4.61703	0.0411411	0.00425106	37.74	36.2	39.3	Tn	10 15.2	21.3
38083 Rhadamanthus	7.1	X	99.69935	82.27422	9.96793	12.72350	0.1510823	0.00401294	39.22	33.3	45.1	Tn	4 15.9	23.2
38084 1999 HB_{12}	7.4	X	358.83427	66.52713	166.37241	13.14070	0.4222647	0.00232897	56.37	32.6	80.2	Sd	5 12.4	22.5
38628 Huya	4.9	X	3.69302	67.89137	169.25075	15.46549	0.2828995	0.00392627	39.79	28.5	51.1	Tn	5 26.8	19.5
40314 1999 KR_{16}	5.9	X	347.22326	58.32684	205.56321	24.76858	0.3100000	0.00285243	49.24	34.0	64.5	Tn	5 19.8	21.3
42301 2001 UR_{163}	4.5	X	79.15840	342.44498	301.69478	0.75274	0.2852301	0.00267908	51.34	36.7	66.0	Sd	10 29.2	21.7
42355 Typhon	7.5	X	17.10662	159.46704	351.94842	2.42748	0.5404973	0.00416887	38.23	17.6	58.9	Sd	4 18.9	20.7
44594 1999 OX_3	7.2	X	347.20217	144.53304	259.10394	2.62485	0.4517184	0.00542456	32.08	17.6	46.6	Sd	9 29.8	19.9
45802 2000 PV_{29}	8.0	X	92.26430	59.90311	173.23478	1.18296	0.0141261	0.00344389	43.43	42.8	44.0	Tn	8 19.8	24.4
47171 1999 TC_{36}	5.0	X	3.48599	294.94040	97.06136	8.41961	0.2206787	0.00401529	39.20	30.6	47.9	Tn	11 3.1	19.8
47932 2000 GN_{171}	6.2	X	10.82096	195.42670	26.04422	10.79781	0.2879263	0.00393505	39.73	28.3	51.2	Tn	5 20.2	20.8
48639 1995 TL_8	5.4	X	44.78861	83.45735	260.42863	0.24736	0.2347281	0.00261086	52.23	40.0	64.5	Sd	11 14.5	21.9
49036 Pelion	10.4	X	101.60349	151.98907	126.94513	9.34815	0.1372125	0.01109536	19.91	17.2	22.6	Ct	11 1.5	23.6
49673 1999 RA_{215}	7.7	X	307.57650	269.80257	132.30889	22.53096	0.1008953	0.00348880	43.05	38.7	47.4	Tn	9 4.9	23.8
50000 Quaoar	2.4	X	295.90360	149.02244	188.75917	7.98661	0.0366351	0.00342781	43.56	42.0	45.2	Tn	6 20.9	18.7
52747 1998 HM_{151}	7.9	X	320.75170	243.57432	64.01377	0.54699	0.0621646	0.00330200	44.66	41.9	47.4	Tn	6 14.4	24.2
52872 Okyrhoe	10.8	X	143.23274	337.95897	173.03281	15.66351	0.3055771	0.04079024	8.36	5.8	10.9	Ct	7 30.6	21.0
52975 Cyllarus	9.4	X	75.64384	300.79373	52.07220	12.65094	0.3775732	0.00738408	26.12	16.3	36.0	Ct	1 11.3	23.7
53311 Deucalion	6.6	X	306.53280	235.95829	51.38264	0.36974	0.0652367	0.00333101	44.40	41.5	47.3	Tn	5 7.8	22.9
54520 2000 PJ_{30}	8.0	X	11.63162	303.75628	293.20645	5.70048	0.7702089	0.00071125	124.29	28.6	220.0	Sd	8 19.2	25.1
54598 Bienor	7.5	X	303.56321	153.58992	337.85082	20.74885	0.2003967	0.01477912	16.45	13.1	19.7	Ct	11 9.9	19.4
55565 2002 AW_{197}	3.5	X	294.60178	294.50633	297.51051	24.39619	0.1323439	0.00301916	47.41	41.1	53.7	Tn	2 12.9	20.1
55576 Amycus	7.8	X	41.39338	239.53708	315.49929	13.33973	0.3958787	0.00779993	25.18	15.2	35.1	Ct	7 1.6	20.9
55636 2002 TX_{300}	3.4	X	76.42325	338.25840	324.60743	25.86215	0.1234162	0.00348781	43.06	37.7	48.4	Tn	10 14.5	19.7
55637 2002 UX_{25}	4.0	X	295.74732	278.95918	204.67554	19.48397	0.1412688	0.00355810	42.49	36.5	48.5	Tn	11 7.4	20.1
55638 2002 VE_{95}	5.6	X	23.46721	206.87066	199.91363	16.34128	0.2853224	0.00402275	39.16	28.0	50.3	Tn	12 21.1	20.4
58534 Logos	6.6	X	58.69658	339.14418	132.53264	2.89663	0.1205674	0.00321334	45.48	40.0	51.0	Tn	3 24.1	22.9
59358 1999 CL_{158}	7.0	X	47.05325	329.28389	120.10205	10.03034	0.2074344	0.00367514	41.59	33.0	50.2	Tn	2 26.8	22.6
60454 2000 CH_{105}	6.3	X	303.99265	288.46135	320.21903	1.16553	0.0896050	0.00330781	44.61	40.6	48.6	Tn	3 23.4	22.6
60458 2000 CM_{114}	6.7	X	341.64700	251.41779	312.34508	19.70060	0.4093740	0.00212050	60.00	35.4	84.6	Sd	2 21.9	22.6
60558 Echeclus	9.6	X	24.47203	162.80410	173.33337	4.34447	0.4556669	0.02823200	10.68	5.8	15.5	Ct	11 7.3	18.0
60608 2000 EE_{173}	8.5	X	10.53886	235.83047	294.10722	5.94879	0.5467990	0.00279527	49.91	22.6	77.2	Sd	4 16.8	22.4
60620 2000 FD_8	6.5	X	325.88957	80.12265	184.77931	19.47373	0.2260099	0.00336323	44.12	34.1	54.1	Tn	4 23.7	22.2
60621 2000 FE_8	6.9	X	30.19448	144.14758	3.87995	5.86351	0.4064205	0.00235811	55.90	33.2	78.6	Sd	4 24.5	23.0
63252 2001 BL_{41}	11.7	X	233.42768	131.82782	280.90449	12.54075	0.2944636	0.03234448	9.76	6.9	12.6	Ct	6 14.1	22.4
65407 2002 RP_{120}	12.3	X	13.38572	357.90218	39.29836	118.91516	0.9547155	0.00245768	54.38	2.5	106.3	Sd	5 22.7	27.0
65489 Ceto	6.4	X	9.71018	320.21717	171.88584	22.27270	0.8256129	0.00094725	102.68	17.9	187.5	Sd	5 15.4	22.2
66452 1999 OF_4	6.9	X	107.65748	88.00873	134.41557	2.66236	0.0675153	0.00327533	44.91	41.9	47.9	Tn	8 31.1	23.5
66652 Borasisi	5.9	X	61.25237	195.43826	84.87405	0.56318	0.0883018	0.00341778	43.65	39.8	47.5	Tn	9 14.0	22.1
69986 1998 WW_{24}	7.9	X	45.94931	145.88656	234.05734	13.96204	0.2223537	0.00400045	39.30	30.6	48.0	Tn	12 19.8	23.3
69987 1998 WA_{25}	7.0	X	91.09782	204.53007	136.46618	1.04558	0.0200064	0.00357691	42.34	41.5	43.2	Tn	12 7.0	23.3

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
69988 1998 WA_{31}	7.4	X	45.16863	308.94605	20.81595	9.47465	0.4272700	0.00242703	54.84	31.4	78.3	Sd	11 24.1	24.0
69990 1998 WU_{31}	8.3	X	49.30032	141.06072	237.23926	6.59378	0.1837864	0.00403159	39.10	31.9	46.3	Tn	12 18.5	23.8
73480 2002 PN_{34}	8.5	X	33.31897	358.12807	299.12952	16.63880	0.5685506	0.00576494	30.80	13.3	48.3	Sd	10 22.9	22.1
76803 2000 PK_{30}	7.3	X	67.10273	126.22935	127.36145	33.72983	0.1248729	0.00411022	38.60	33.8	43.4	Tn	8 29.9	23.0
78799 2002 XW_{93}	5.5	X	143.15496	247.03348	46.95038	14.38870	0.2502670	0.00430674	37.41	28.1	46.8	Tn	12 22.1	22.1
79360 Sila–Nunam	5.2	X	322.30013	234.30787	304.39082	2.24814	0.0141988	0.00338262	43.95	43.3	44.6	Tn	2 7.9	21.6
79969 1999 CP_{133}	7.4	X	50.58873	161.15575	334.24309	3.17654	0.0854832	0.00473641	35.12	32.1	38.1	Tn	4 2.2	22.6
79978 1999 CC_{158}	5.7	X	44.21255	102.13000	337.01397	18.72483	0.2744135	0.00248266	54.02	39.2	68.8	Sd	2 20.3	22.3
79983 1999 DF_{9}	6.1	X	19.36301	178.80003	334.84481	9.81000	0.1471783	0.00308787	46.71	39.8	53.6	Tn	3 17.7	22.2
80806 2000 CM_{105}	6.6	X	97.18219	7.73535	45.76101	3.75373	0.0634189	0.00358145	42.31	39.6	45.0	Tn	2 27.2	22.9
82075 2000 YW_{134}	4.9	X	31.48002	316.69175	126.96504	19.81085	0.2881097	0.00223670	57.91	41.2	74.6	Sd	2 7.8	21.5
82155 2001 FZ_{173}	6.1	X	2.95513	199.50057	2.36704	12.70408	0.6282088	0.00121071	87.19	32.4	142.0	Sd	4 24.4	21.3
82157 2001 FM_{185}	6.9	X	292.50382	109.64654	150.72828	5.36229	0.0622068	0.00407589	38.81	36.4	41.2	Tn	3 27.4	22.7
82158 2001 FP_{185}	6.2	X	1.42561	7.17160	179.31023	30.76274	0.8493389	0.00028716	227.54	34.3	420.8	Sd	4 29.9	21.9
83982 Crantor	8.8	X	63.88825	93.20362	117.39718	12.77031	0.2779725	0.01148610	19.45	14.0	24.9	Ct	7 29.4	21.4
84522 2002 TC_{302}	3.8	X	323.05251	87.41223	23.90916	35.11782	0.2916182	0.00241445	55.03	39.0	71.1	Sd	11 1.5	20.3
84719 2002 VR_{128}	5.4	X	76.18734	287.34048	23.15748	14.04197	0.2643111	0.00400868	39.25	28.9	49.6	Tn	11 17.0	21.4
84922 2003 VS_{2}	4.2	X	19.36724	112.86993	302.70916	14.79696	0.0723806	0.00400328	39.28	36.4	42.1	Tn	12 10.6	19.9
85627 1998 HP_{151}	7.4	X	319.37219	247.83548	55.94372	1.51296	0.0904048	0.00334496	44.28	40.3	48.3	Tn	6 6.1	23.5
85633 1998 KR_{65}	6.7	X	254.27414	333.66951	101.95635	1.19018	0.0290857	0.00343647	43.49	42.2	44.8	Tn	8 20.0	23.1
86047 1999 OY_{3}	6.8	X	63.49980	304.61315	301.79950	24.21363	0.1726639	0.00339387	43.85	36.3	51.4	Tn	8 16.1	23.0
86177 1999 RY_{215}	7.1	X	348.55084	50.87046	326.61843	22.18716	0.2337306	0.00325766	45.07	34.5	55.6	Tn	9 14.6	22.5
87269 2000 OO_{67}	9.2	X	0.39021	212.24257	142.33608	20.07078	0.9591646	0.00008606	508.09	20.7	995.4	Sd	11 18.5	23.5
87555 2000 QB_{243}	8.3	X	44.33348	284.24672	330.14114	6.78218	0.5641799	0.00478810	34.86	15.2	54.5	Sd	9 27.3	23.1
88267 2001 KE_{76}	7.2	X	93.33722	49.49905	113.01991	0.49880	0.0253289	0.00346649	43.24	42.1	44.3	Tn	6 9.4	23.5
88268 2001 KK_{76}	6.3	X	327.17975	216.43349	86.95978	1.88594	0.0192216	0.00353149	42.71	41.9	43.5	Tn	6 20.5	22.5
88269 2001 KF_{77}	9.5	X	0.90655	266.01132	14.55615	4.35756	0.2420176	0.00738976	26.10	19.8	32.4	Ct	7 3.7	22.4
88611 Teharonhiawako	5.8	X	155.77291	241.04816	304.66665	2.57675	0.0302737	0.00338385	43.94	42.6	45.3	Tn	9 4.8	22.3
90377 Sedna	1.6	X	358.02354	311.57853	144.46153	11.92900	0.8438249	0.00009169	487.07	76.1	898.1	Sd	11 21.1	20.9
90482 Orcus	2.2	X	177.72629	72.39404	268.71628	20.58251	0.2200852	0.00398561	39.40	30.7	48.1	Tn	2 18.9	19.1
90568 2004 GV_{9}	4.0	X	35.07745	295.04165	250.65868	21.93634	0.0821097	0.00358782	42.26	38.8	45.7	Tn	5 5.6	20.0
91133 1998 HK_{151}	7.6	X	26.90521	181.26896	50.16804	5.93346	0.2333941	0.00395083	39.63	30.4	48.9	Tn	6 25.6	22.7
91205 1998 US_{43}	8.0	X	63.21963	139.68213	223.94556	10.62921	0.1299965	0.00402752	39.12	34.0	44.2	Tn	12 13.5	23.7
91554 1999 RZ_{215}	7.8	X	6.71842	335.33760	341.65967	25.52904	0.6945406	0.00096822	101.19	30.9	171.5	Sd	9 21.0	23.3
95625 2002 GX_{32}	7.4	X	18.74702	186.32279	28.08461	13.91873	0.3824806	0.00250868	53.64	33.1	74.2	Sd	6 5.7	23.0
95626 2002 GZ_{32}	7.1	X	354.06869	154.87407	107.28278	15.01723	0.2241562	0.00880988	23.22	18.0	28.4	Ct	6 3.9	19.7
118228 1996 TQ_{66}	6.9	X	27.81101	19.02783	10.82038	14.68265	0.1182596	0.00401043	39.24	34.6	43.9	Tn	11 24.3	22.4
118378 1999 HT_{11}	7.6	X	326.31759	186.09882	87.95881	5.04770	0.1183169	0.00336630	44.09	38.9	49.3	Tn	5 13.1	23.6
118379 1999 HC_{12}	7.6	X	63.78896	96.92488	57.00690	15.30629	0.2359549	0.00319621	45.64	34.9	56.4	Tn	5 24.8	24.0
118698 2000 OY_{51}	8.2	X	329.18902	81.82007	284.98512	11.20077	0.2309140	0.00342079	43.62	33.6	53.7	Tn	8 8.4	23.7
118702 2000 OM_{67}	6.8	X	10.74489	348.34670	327.11433	23.36802	0.5999026	0.00101920	97.79	39.1	156.5	Sd	9 18.9	23.4
119066 2001 KJ_{76}	6.8	X	314.89401	267.97105	47.59468	6.72152	0.0811881	0.00338546	43.93	40.4	47.5	Tn	6 13.8	23.0
119067 2001 KP_{76}	6.6	X	298.75781	302.40295	42.72486	7.19206	0.1888227	0.00340165	43.79	35.5	52.1	Tn	6 13.2	22.8
119068 2001 KC_{77}	6.7	X	14.52992	180.20772	57.77245	12.88293	0.3635096	0.00237518	55.63	35.4	75.9	Sd	6 20.8	22.4
119069 2001 KN_{77}	7.1	X	320.71229	279.25783	45.32408	2.35756	0.2422203	0.00399101	39.36	29.8	48.9	Tn	6 13.5	22.3
119070 2001 KP_{77}	7.0	X	19.47696	218.31993	21.92595	3.31251	0.1810888	0.00337976	43.98	36.0	51.9	Tn	6 19.3	22.6
119315 2001 SQ_{73}	9.6	X	122.05533	303.30875	16.33054	17.44120	0.1755735	0.01355534	17.42	14.4	20.5	Ct	12 30.6	22.5
119473 2001 UO_{18}	7.8	X	344.34005	47.89199	36.39527	3.67790	0.2824362	0.00398653	39.39	28.3	50.5	Tn	11 18.2	22.4
119878 2002 CY_{224}	6.1	X	23.91739	152.14539	317.03870	15.73030	0.3468124	0.00247670	54.10	35.3	72.9	Sd	2 23.4	22.0
119951 2002 KX_{14}	4.6	X	269.08756	66.19238	286.93854	0.40043	0.0422006	0.00404452	39.01	37.4	40.7	Tn	6 7.8	20.5
119956 2002 PA_{149}	6.1	X	87.54864	152.27294	105.53361	4.04896	0.1764229	0.00343805	43.48	35.8	51.1	Tn	9 30.3	22.6
119976 2002 VR_{130}	11.1	X	37.51516	218.67439	181.95565	3.52144	0.3830620	0.00843466	23.90	14.7	33.1	Ct	1 13.9	23.7
119979 2002 WC_{19}	4.9	X	316.96901	45.18542	109.70979	9.18941	0.2623498	0.00298704	47.75	35.2	60.3	Tn	12 18.7	21.0
120061 2003 CO_{1}	8.9	X	41.56110	116.58776	78.42948	19.72169	0.4750911	0.01036588	20.83	10.9	30.7	Ct	7 12.1	21.1
120132 2003 FY_{128}	4.8	X	29.65245	175.72752	341.72564	11.76662	0.2550526	0.00280120	49.84	37.1	62.6	Tn	4 12.0	20.8
120178 2003 OP_{32}	3.8	X	72.40169	68.41849	182.93593	27.21345	0.1082802	0.00347269	43.19	38.5	47.9	Tn	8 27.2	20.1
120181 2003 UR_{292}	7.3	X	10.28979	248.12804	146.53071	2.71979	0.1688354	0.00539545	32.19	26.8	37.6	Tn	11 13.0	21.6
120216 2004 EW_{95}	6.7	X	359.23194	204.53791	25.70068	29.23113	0.3217414	0.00392928	39.77	27.0	52.6	Tn	5 2.1	21.0
120347 Salacia	4.0	X	122.69547	309.12494	279.99835	23.92734	0.1098529	0.00363165	41.92	37.3	46.5	Tn	9 12.9	20.6
120348 2004 TY_{364}	5.0	X	266.17999	1.80504	140.52707	24.84302	0.0658890	0.00409520	38.69	36.1	41.2	Tn	11 10.5	21.0
121725 1999 XX_{143}	8.6	X	208.79170	215.60402	103.84026	6.77790	0.4617592	0.01293130	17.98	9.7	26.3	Ct	2 20.8	22.7
123509 2000 WK_{183}	6.6	X	327.26499	295.95121	185.86607	1.97050	0.0434450	0.00334867	44.25	42.3	46.2	Tn	12 18.7	22.9
126154 2001 YH_{140}	5.5	X	21.92728	356.36055	108.87510	11.08561	0.1406232	0.00357071	42.39	36.4	48.4	Tn	2 3.2	21.2
126155 2001 YJ_{140}	7.3	X	13.24450	129.76480	319.47075	5.97740	0.2915498	0.00398758	39.38	27.9	50.9	Tn	1 13.2	21.8
126619 2002 CX_{154}	7.1	X	13.44656	161.96574	346.94077	15.95834	0.4721088	0.00160939	72.12	38.1	106.2	Sd	3 25.9	23.3
126719 2002 CC_{249}	6.7	X	356.48086	307.60944	248.55269	0.83422	0.1985898	0.00301853	47.42	38.0	56.8	Tn	3 30.5	22.5
127546 2002 XU_{93}	8.0	X	5.79307	28.17903	90.38551	77.94773	0.6886622	0.00177847	67.47	21.0	113.9	Sd	3 19.5	21.9
127871 2003 FC_{128}	7.0	X	60.41972	42.04653	78.54323	2.37155	0.0864372	0.00472940	35.15	32.1	38.2	Tn	3 30.9	22.3
129746 1999 CE_{119}	8.4	X	7.58465	35.23959	171.47590	1.47258	0.2753287	0.00394066	39.70	28.8	50.6	Tn	4 30.4	23.0
129772 1999 HR_{11}	7.2	X	2.09700	129.27176	83.39188	3.29950	0.0414431	0.00337714	44.00	42.2	45.8	Tn	4 25.7	23.5
130391 2000 JG_{81}	8.0	X	22.64176	170.14767	45.90206	23.41075	0.2858573	0.00297778	47.85	34.2	61.5	Tn	6 3.6	23.6
131318 2001 FL_{194}	7.8	X	28.48671	172.74386	2.03903	13.67788	0.1795528	0.00394404	39.67	32.6	46.8	Tn	4 21.3	23.1
131695 2001 XS_{254}	7.7	X	27.55700	8.22153	94.76606	4.26526	0.0521638	0.00433083	37.28	35.3	39.2	Tn	2 2.1	23.2
131696 2001 XT_{254}	7.4	X	1.40670	133.75174	359.37501	0.51857	0.3238092	0.00254856	53.08	35.9	70.3	Sd	2 3.9	23.0
131697 2001 XH_{255}	8.2	X	319.19302	220.18240	323.15090	2.85733	0.0777831	0.00475902	35.00	32.3	37.7	Tn	2 4.1	23.4
133067 2003 FB_{128}	6.8	X	52.70717	306.46947	209.42512	8.86241	0.2600259	0.00391492	39.87	29.5	50.2	Tn	5 17.9	22.3
134210 2005 PQ_{21}	6.8	X	7.59794	21.77600	316.32086	6.48209	0.3912147	0.00203074	61.76	37.6	85.9	Sd	9 17.8	22.6
134340 Pluto	−0.4	X	39.81242	114.23187	110.29633	17.12817	0.2532052	0.00393819	39.71	29.7	49.8	Tn	7 10.1	14.8
134568 1999 RH_{215}	8.1	X	27.82204	56.76629	276.66941	10.20765	0.1469713	0.00344154	43.45	37.1	49.8	Tn	9 29.5	23.9
134860 2000 OJ_{67}	6.1	X	97.52254	145.62269	96.78929	1.11460	0.0230332	0.00352399	42.77	41.8	43.8	Tn	9 5.6	22.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
135024 2001 KO_{76}	6.9	X	272.99034	294.63572	44.21271	2.14835	0.1091576	0.00338280	43.95	39.2	48.7	Tn	5 19.9	23.3
135182 2001 QT_{322}	6.2	X	107.07609	43.03384	224.17208	1.84528	0.0212008	0.00439185	36.93	36.1	37.7	Tn	10 9.8	21.9
135571 2002 GG_{32}	7.2	X	354.98324	230.66656	35.69502	14.65973	0.3581211	0.00235944	55.88	35.9	75.9	Sd	6 3.0	22.8
135742 2002 PB_{171}	7.3	X	69.99392	287.98539	336.78988	5.45384	0.1266287	0.00342850	43.56	38.0	49.1	Tn	9 11.3	23.6
136108 Haumea	0.1	X	214.06846	238.86859	121.97055	28.20371	0.1894111	0.00345282	43.35	35.1	51.6	Tn	4 24.7	17.2
136120 2003 LG_{7}	7.9	X	15.07893	342.54749	238.28510	20.06545	0.4844116	0.00197494	62.92	32.4	93.4	Sd	6 16.6	23.5
136199 Eris	−1.2	X	204.88054	151.51787	35.87811	44.20350	0.4416660	0.00177117	67.65	37.8	97.5	Sd	10 21.3	18.7
136204 2003 WL_{7}	8.6	X	25.28613	70.86050	4.75428	11.16477	0.2568983	0.01090838	20.14	15.0	25.3	Ct	1 16.9	20.6
136472 Makemake	−0.3	X	161.04223	295.95625	79.58606	28.98671	0.1547011	0.00318888	45.71	38.6	52.8	Tn	4 5.5	17.0
137294 1999 RE_{215}	6.7	X	76.93805	112.38287	149.33595	1.35375	0.1085894	0.00327814	44.88	40.0	49.8	Tn	9 14.2	23.1
137295 1999 RB_{216}	7.4	X	3.80192	208.46676	175.77422	12.70661	0.2883073	0.00303318	47.26	33.6	60.9	Tn	10 27.2	22.7
138537 2000 OK_{67}	6.2	X	354.51327	358.45719	4.35148	4.89436	0.1364513	0.00312195	46.36	40.0	52.7	Tn	9 18.9	22.2
138628 2000 QM_{251}	7.1	X	47.83551	312.81065	355.64773	15.73288	0.2663640	0.00331467	44.55	32.7	56.4	Tn	10 13.8	23.0
139775 2001 QG_{298}	7.2	X	10.22553	208.72180	162.59178	6.49769	0.1894421	0.00402108	39.17	31.7	46.6	Tn	10 21.8	22.2
143685 2003 SS_{317}	8.1	X	10.71304	197.31114	177.69352	5.91360	0.2321270	0.00451105	36.28	27.9	44.7	Tn	10 27.5	22.6
143707 2003 UY_{117}	6.1	X	11.49387	112.21265	265.14268	7.54830	0.4114140	0.00240743	55.14	32.5	77.8	Sd	11 8.5	21.4
143751 2003 US_{292}	8.6	X	17.96760	346.56793	29.23272	7.66654	0.2488818	0.00362892	41.94	31.5	52.4	Tn	11 8.1	23.7
143991 2003 YO_{179}	5.9	X	324.42088	66.62553	66.95694	19.43343	0.1381986	0.00331972	44.50	38.4	50.7	Tn	12 18.5	21.9
144897 2004 UX_{10}	4.7	X	101.91652	147.17545	148.01227	9.53628	0.0425194	0.00407300	38.83	37.2	40.5	Tn	11 7.2	20.6
145451 2005 RM_{43}	4.4	X	5.44197	318.33679	84.61768	28.79763	0.6085485	0.00116039	89.69	35.1	144.3	Sd	12 5.5	20.0
145452 2005 RN_{43}	3.9	X	347.08563	168.09522	186.92609	19.31229	0.0206872	0.00369278	41.45	40.6	42.3	Tn	9 2.0	20.0
145453 2005 RR_{43}	4.1	X	46.79991	278.41424	85.81000	28.55294	0.1357702	0.00349070	43.04	37.2	48.9	Tn	11 30.5	20.1
145474 2005 SA_{278}	6.2	X	351.96957	277.27913	170.41995	16.29187	0.6381271	0.00113047	91.26	33.0	149.5	Sd	11 9.7	21.9
145480 2005 TB_{190}	4.6	X	0.56985	171.11287	180.43067	26.52949	0.3871066	0.00150619	75.37	46.2	104.6	Sd	9 15.2	21.2
145486 2005 UJ_{438}	10.8	X	34.58749	208.50482	263.01927	3.78104	0.5322218	0.01320473	17.73	8.3	27.2	Ct	4 11.2	21.8
148112 1999 RA_{216}	7.1	X	97.08646	81.22157	192.08911	0.79564	0.0419243	0.00340433	43.76	41.9	45.6	Tn	10 8.6	23.5
148209 2000 CR_{105}	6.3	X	5.68489	317.03425	128.29138	22.75628	0.8007695	0.00029752	222.23	44.3	400.2	Sd	2 23.5	24.2
148780 Altjira	5.7	X	128.27274	295.68472	1.95467	5.20341	0.0631289	0.00336942	44.07	41.3	46.8	Tn	12 3.1	22.3
148975 2001 XA_{255}	11.1	X	16.51313	90.60979	105.89582	12.61924	0.6787007	0.00627722	29.10	9.4	48.9	Ct	7 1.4	22.6
149348 2002 VS_{130}	6.3	X	60.26424	87.55860	275.51567	2.99496	0.1186944	0.00327889	44.87	39.5	50.2	Tn	12 8.4	22.6
149349 2002 VA_{131}	6.8	X	314.80143	255.62664	224.51471	7.08963	0.2387702	0.00361073	42.08	32.0	52.1	Tn	11 14.1	22.4
149560 2003 QZ_{91}	8.1	X	35.28346	137.08088	130.82414	34.81433	0.4777365	0.00368891	41.48	21.7	61.3	Sd	9 23.1	23.1
150642 2001 CZ_{31}	5.8	X	339.31612	47.51502	136.22018	10.21156	0.1238840	0.00322175	45.40	39.8	51.0	Tn	2 26.2	21.8
160091 2000 OL_{67}	6.8	X	71.41424	311.36219	322.62881	1.98174	0.1109086	0.00326800	44.97	40.0	50.0	Tn	9 20.5	23.2
160147 2001 KN_{76}	6.6	X	348.54960	284.39867	326.83961	2.64513	0.0946150	0.00337317	44.03	39.9	48.2	Tn	5 17.2	22.6
160148 2001 KV_{76}	7.8	X	354.65238	228.73297	39.56708	15.29439	0.5128938	0.00166196	70.59	34.4	106.8	Sd	5 27.8	23.2
160256 2002 PD_{149}	6.3	X	223.79072	41.64324	103.50831	4.90700	0.0635198	0.00351928	42.81	40.1	45.5	Tn	9 29.5	22.8
160427 2005 RL_{43}	8.3	X	81.67175	166.22200	162.61908	12.26628	0.0417660	0.00816361	24.43	23.4	25.4	Ct	11 20.7	22.2
168700 2000 GE_{147}	8.3	X	19.80678	50.54931	154.66393	4.98964	0.2369520	0.00393836	39.71	30.3	49.1	Tn	5 19.1	23.2
168703 2000 GP_{183}	6.4	X	353.46252	219.53337	23.31898	4.90753	0.0820530	0.00388154	40.10	36.8	43.4	Tn	5 14.7	22.1
169071 2001 FR_{185}	8.0	X	341.11137	335.23221	287.58379	5.63223	0.1972497	0.00395880	39.58	31.8	47.4	Tn	5 13.6	23.1
174567 Varda	3.4	X	270.69935	181.19248	183.95443	21.49567	0.1398646	0.00315961	46.00	39.6	52.4	Tn	6 11.3	20.2
175113 2004 PF_{115}	4.4	X	165.91091	86.04400	84.49774	13.34915	0.0691356	0.00405890	38.92	36.2	41.6	Tn	9 5.9	20.6
181708 1993 FW	7.0	X	351.79563	41.93867	187.83263	7.73303	0.0552227	0.00336962	44.06	41.6	46.5	Tn	5 1.7	23.2
181855 1998 WT_{31}	7.2	X	354.47653	41.92421	41.67111	28.73767	0.1798797	0.00317763	45.82	37.6	54.1	Tn	12 2.4	23.0
181867 1999 CV_{118}	7.4	X	32.88122	148.64403	305.65621	5.48258	0.2897687	0.00255808	52.95	37.6	68.3	Sd	2 19.0	23.6
181868 1999 CG_{119}	7.6	X	332.48810	255.97492	304.29055	16.68388	0.2961990	0.00280158	49.83	35.1	64.6	Tn	2 14.6	23.5
181871 1999 CO_{153}	7.4	X	59.22032	161.49270	278.38911	0.80834	0.0836902	0.00340212	43.78	40.1	47.4	Tn	2 15.6	23.7
181874 1999 HW_{11}	6.8	X	41.30030	325.60935	198.34118	17.16321	0.2610771	0.00254110	53.18	39.3	67.1	Sd	5 12.1	23.3
181902 1999 RD_{215}	7.4	X	7.79560	137.86682	210.32234	25.98960	0.6897536	0.00074041	121.01	37.5	204.5	Sd	11 3.4	23.9
182222 2000 YU_{1}	7.0	X	282.61816	316.78744	207.98068	6.12310	0.0982577	0.00344074	43.45	39.2	47.7	Tn	12 8.9	23.3
182223 2000 YC_{2}	7.5	X	32.27307	145.71739	227.71205	19.92726	0.3807862	0.00222260	58.15	36.0	80.3	Sd	12 13.1	23.9
182294 2001 KU_{76}	6.6	X	356.22067	204.71560	44.97339	10.62989	0.1691422	0.00322556	45.37	37.7	53.0	Tn	5 24.1	22.4
182397 2001 QW_{297}	5.9	X	67.51599	108.01982	141.01960	17.04718	0.2372868	0.00265792	51.61	39.4	63.9	Sd	9 8.4	22.9
182926 2002 FU_{6}	7.3	X	312.39955	188.79690	55.51670	2.19292	0.1515472	0.00315104	46.08	39.1	53.1	Tn	3 23.0	23.5
182933 2002 GZ_{31}	6.4	X	338.60848	163.38861	117.18363	1.05538	0.2460203	0.00271321	50.91	38.4	63.4	Sd	5 26.0	22.4
182934 2002 GJ_{32}	5.4	X	81.32867	257.58703	244.85686	11.57801	0.1098065	0.00331331	44.56	39.7	49.5	Tn	5 16.7	21.9
183595 2003 TG_{58}	6.7	X	301.48348	236.92810	276.80390	1.66569	0.1047268	0.00332875	44.42	39.8	49.1	Tn	12 16.7	23.0
183963 2004 DJ_{64}	7.2	X	321.69143	129.62913	103.18091	2.44469	0.1075808	0.00330108	44.67	39.9	49.5	Tn	3 27.1	23.3
183964 2004 DJ_{71}	7.4	X	1.35445	56.62321	101.66906	11.31020	0.3872101	0.00252363	53.43	32.7	74.1	Sd	3 4.7	22.6
184212 2004 PB_{112}	7.3	X	1.98740	3.50669	356.80469	15.45482	0.6678961	0.00089826	106.38	35.3	177.4	Sd	10 4.6	22.8
184314 2005 EO_{302}	6.3	X	319.89610	267.37395	0.36755	5.75919	0.1447236	0.00320888	45.52	38.9	52.1	Tn	4 23.7	22.4
187661 2007 JG_{43}	9.3	X	31.66065	173.91280	62.46223	33.10449	0.4065641	0.00835826	24.05	14.3	33.8	Ct	8 3.9	21.9
202421 2005 UQ_{513}	3.4	X	224.99850	222.79414	307.73600	25.71756	0.1497875	0.00347633	43.16	36.7	49.6	Tn	10 5.5	20.3
208996 2003 AZ_{84}	3.8	X	231.33947	14.21157	252.16025	13.58857	0.1800619	0.00396802	39.51	32.4	46.6	Tn	1 20.1	20.3
225088 2007 OR_{10}	2.5	X	104.54899	207.19418	336.82565	30.86803	0.5058795	0.00179125	67.15	33.2	101.1	Sd	8 27.3	21.9
229762 2007 UK_{126}	3.5	X	343.35005	346.88721	131.18825	23.35839	0.4868648	0.00157972	73.02	37.5	108.6	Sd	12 4.9	19.8
230965 2004 XA_{192}	4.1	X	358.12237	132.77608	328.69355	38.10534	0.2449449	0.00306192	46.97	35.5	58.5	Tn	1 8.4	19.7
241097 2007 DU_{112}	11.1	X	15.23701	348.79482	186.96833	15.68257	0.7788194	0.00376031	40.96	9.1	72.9	Sd	6 30.3	24.1
248835 2006 SX_{368}	9.5	X	25.50288	70.48824	280.00488	36.32464	0.4569633	0.00955331	22.00	11.9	32.0	Ct	11 21.2	21.3
250112 2002 KY_{14}	9.7	X	67.53379	99.18355	245.40275	19.49882	0.3130475	0.02221584	12.53	8.6	16.5	Ct	12 21.5	20.6
275809 2001 QY_{297}	5.6	X	84.24060	125.66545	108.76304	1.54746	0.0856330	0.00339615	43.83	40.1	47.6	Tn	8 21.9	22.0
278361 2007 JJ_{43}	3.9	X	340.15961	6.49537	272.55355	12.03779	0.1644371	0.00293298	48.34	40.4	56.3	Tn	6 1.3	20.0
281371 2008 FC_{76}	9.2	X	22.31154	141.81529	245.66434	27.15301	0.3065191	0.01755058	14.66	10.2	19.2	Ct	12 4.4	19.5
303712 2005 PR_{21}	6.1	X	53.93144	308.99109	339.10826	1.34071	0.1043882	0.00337037	44.06	39.5	48.7	Tn	9 15.2	22.3
303775 2005 QU_{182}	3.5	X	14.23582	223.69984	78.30225	14.04390	0.6690761	0.00084154	111.11	36.8	185.5	Sd	10 16.2	20.7
305543 2008 QY_{40}	5.2	X	355.65652	331.66985	43.13728	25.19141	0.4028021	0.00203556	61.66	36.8	86.5	Sd	10 6.7	20.9
306792 2001 KQ_{77}	7.2	X	329.49207	63.14479	248.43469	15.58409	0.1590686	0.00393691	39.72	33.4	46.0	Tn	6 20.3	22.6
307251 2002 KW_{14}	5.0	X	48.93093	124.33887	59.81644	9.74080	0.2056827	0.00305580	47.03	37.4	56.7	Tn	6 3.8	21.2
307261 2002 MS_{4}	3.7	X	219.33426	214.64608	215.90354	17.66790	0.1408696	0.00363717	41.88	36.0	47.8	Tn	6 30.4	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
307463 2002 VU_{130}	6.0	X	273.84655	281.45047	267.87954	1.37454	0.2117100	0.00403879	39.05	30.8	47.3	Tn	12 11.7	22.0
307616 2003 QW_{90}	5.4	X	276.67158	90.16709	17.75709	10.38391	0.0751577	0.00342525	43.59	40.3	46.9	Tn	10 9.6	21.8
307982 2004 PG_{115}	4.8	X	6.06614	75.54197	230.32107	16.28787	0.5971483	0.00114906	90.28	36.4	144.2	Sd	8 22.5	20.7
308193 2005 CB_{79}	4.6	X	320.72883	91.25190	112.85286	28.64723	0.1464702	0.00343156	43.53	37.2	49.9	Tn	2 23.9	20.6
308379 2005 RS_{43}	5.3	X	54.26337	265.84468	46.38983	10.03134	0.1976317	0.00300274	47.58	38.2	57.0	Tn	10 22.6	21.7
308460 2005 SC_{278}	7.3	X	308.57828	52.44036	27.50185	1.51985	0.0629879	0.00482471	34.69	32.5	36.9	Tn	10 16.3	22.5
308634 2005 XU_{100}	6.4	X	76.10309	103.42962	318.44290	7.86566	0.1018885	0.00343239	43.52	39.1	48.0	Tn	2 16.9	22.7
308933 2006 SQ_{372}	8.0	X	0.18065	122.27536	197.34160	19.49837	0.9693650	0.00004456	788.02	24.1	1551.9	Sd	9 24.5	22.4
309139 2006 XQ_{51}	9.8	X	83.99512	134.50170	234.00460	31.61193	0.3753917	0.01561182	15.86	9.9	21.8	Ct	1 21.2	22.2
309239 2007 RW_{10}	6.6	X	70.46012	95.58930	187.07051	36.16749	0.3014790	0.00594962	30.16	21.1	39.3	Tn	10 22.7	21.4
309737 2008 SJ_{236}	12.3	X	77.83634	183.18661	234.55865	6.03946	0.4352498	0.02719560	10.95	6.2	15.7	Ct	3 19.2	22.9
309741 2008 UZ_{6}	10.7	X	15.82949	199.88513	240.71609	35.82510	0.6119706	0.00692002	27.27	10.6	44.0	Ct	1 30.9	22.1
310071 2010 KR_{59}	7.8	X	16.13340	108.77452	46.80936	19.63611	0.5697151	0.00592208	30.26	13.0	47.5	Sd	4 27.4	19.7
312645 2010 EP_{65}	5.5	X	2.49619	352.37851	205.03663	18.84943	0.3120248	0.00295866	48.06	33.1	63.0	Tn	4 11.2	20.7
315530 2008 AP_{129}	5.2	X	47.93612	58.65530	15.01616	27.37813	0.1377775	0.00364505	41.82	36.1	47.6	Tn	2 14.7	21.1
315898 2008 QD_{4}	11.4	X	104.49469	68.66761	344.69946	42.02273	0.3498616	0.04051980	8.40	5.5	11.3	Ct	3 15.4	21.3
316179 2010 EN_{65}	6.9	X	46.78769	225.89999	234.46053	19.21099	0.3131740	0.00576729	30.80	21.2	40.4	Tn	3 14.6	21.1
328884 2010 LJ_{109}	10.2	X	56.90117	136.52508	41.56063	24.78100	0.3102235	0.02049747	13.22	9.1	17.3	Ct	6 16.1	21.0
330836 Orius	9.9	X	38.01518	141.03105	50.34363	17.85526	0.4209484	0.00984030	21.57	12.5	30.6	Ct	6 23.2	22.1
332685 2009 HH_{36}	10.9	X	31.97778	239.93000	72.16056	23.30440	0.4445387	0.02186280	12.67	7.0	18.3	Ct	10 31.8	20.6
336756 2010 NV_{1}	10.6	X	0.44654	132.76308	136.17186	140.78464	0.9695573	0.00018164	308.79	9.4	608.2	Sd	7 16.5	22.6
341275 2007 RG_{283}	8.6	X	338.11079	149.87796	311.86045	28.77232	0.2312789	0.01113875	19.86	15.3	24.4	Ct	11 28.6	20.7
341520 Mors–Somnus	6.8	X	0.48592	205.28934	196.74968	11.30368	0.2608953	0.00404332	39.02	28.8	49.2	Tn	11 6.9	21.4
342842 2008 YB_{3}	9.3	X	59.06498	330.92168	112.57327	105.05647	0.4404103	0.02486000	11.63	6.5	16.7	Ct	8 8.6	20.2
346889 Rhiphonos	11.8	X	76.44157	13.38523	11.52415	19.88909	0.4420289	0.02780731	10.79	6.0	15.6	Ct	2 22.6	22.3
349933 2009 YF_{7}	10.9	X	351.60599	89.40754	97.48259	30.98528	0.4635439	0.02333043	12.13	6.5	17.8	Ct	2 23.3	19.4
353222 2009 YD_{7}	10.0	X	0.97058	326.87982	126.08750	30.79947	0.8912093	0.00072222	123.03	13.4	232.7	Sd	1 22.8	21.5
363330 2002 PQ_{145}	5.7	X	206.35214	316.25851	165.74262	3.08351	0.0466584	0.00340117	43.79	41.7	45.8	Tn	8 18.7	22.3
363401 2003 LB_{7}	6.7	X	35.40093	157.55478	49.61641	2.29350	0.1369873	0.00316597	45.93	39.6	52.2	Tn	6 3.2	22.8
364171 2006 JZ_{81}	6.7	X	9.39324	182.53666	36.36558	3.54227	0.0876600	0.00325825	45.06	41.1	49.0	Tn	5 10.1	22.8
382004 2010 RM_{64}	11.2	X	19.88270	291.67957	113.90575	27.01194	0.6886699	0.01117516	19.81	6.2	33.5	Ct	2 4.3	21.3
385185 1993 RO	8.4	X	29.96214	187.68038	170.40014	3.71933	0.1947880	0.00403833	39.05	31.4	46.7	Tn	11 5.7	23.6
385191 1997 RT_{5}	7.2	X	184.24323	21.82113	163.78938	12.75389	0.0288855	0.00373101	41.17	40.0	42.4	Tn	10 4.8	23.5
385194 1998 KG_{62}	6.5	X	234.04854	119.58843	336.80216	0.78821	0.0482502	0.00344993	43.38	41.3	45.5	Tn	8 19.2	23.0
385199 1999 OE_{4}	7.0	X	357.24187	211.59473	130.91825	2.15373	0.0446272	0.00323508	45.28	43.3	47.3	Tn	9 2.4	23.4
385201 1999 RN_{215}	6.7	X	142.82541	100.98809	140.68824	12.41460	0.0772918	0.00349693	42.99	39.7	46.3	Tn	10 26.9	23.3
385266 2001 QB_{298}	6.8	X	48.05546	0.22939	291.53205	1.79779	0.0965028	0.00355395	42.53	38.4	46.6	Tn	9 10.9	22.8
385362 2002 PT_{170}	6.4	X	251.99548	135.34063	328.77091	3.70260	0.1431128	0.00314467	46.14	39.5	52.7	Tn	9 3.7	23.3
385363 2002 PW_{170}	6.2	X	156.47060	204.33168	339.80825	3.93565	0.0748775	0.00328883	44.78	41.4	48.1	Tn	9 6.3	23.0
385437 2003 GH_{55}	5.8	X	23.09028	88.50175	116.41365	1.10261	0.0855367	0.00332100	44.49	40.7	48.3	Tn	5 12.9	21.9
385445 2003 QH_{91}	6.8	X	124.49397	266.99614	286.68058	3.65825	0.1521449	0.00398236	39.42	33.4	45.4	Tn	8 23.2	23.2
385446 Manwë	6.5	X	276.55554	21.66790	68.41210	2.66757	0.1116370	0.00342616	43.58	38.7	48.4	Tn	9 17.9	22.9
385447 2003 QF_{113}	6.6	X	22.13211	197.51941	114.13132	4.45812	0.0284094	0.00340373	43.77	42.5	45.0	Tn	8 29.5	22.9
385458 2003 SP_{317}	6.6	X	302.28222	97.99972	347.11701	5.08674	0.1673093	0.00318422	45.76	38.1	53.4	Tn	10 1.9	22.9
385527 2004 OK_{14}	7.6	X	339.69988	206.85114	149.02866	3.46863	0.2423863	0.00340262	43.78	33.2	54.4	Tn	8 14.9	23.0
385528 2004 OR_{15}	7.5	X	8.18348	12.64200	285.17577	6.91107	0.3411332	0.00232604	56.41	37.2	75.7	Sd	8 6.6	23.2
385533 2004 QD_{29}	7.0	X	71.17794	114.13620	135.27387	23.86771	0.1166330	0.00349219	43.03	38.0	48.0	Tn	8 28.5	23.2
385571 Otrera	8.8	X	355.58253	3.46763	34.75857	1.43342	0.0233489	0.00598971	30.03	29.3	30.7	Tn	10 27.4	23.4
385607 2005 EO_{297}	7.2	X	14.91959	349.88280	144.04078	25.02254	0.3471166	0.00196525	63.12	41.2	85.0	Sd	3 7.7	23.5
385695 2005 TO_{74}	8.3	X	281.28178	308.46103	169.45912	5.25942	0.0520888	0.00599201	30.02	28.5	31.6	Tn	10 28.3	23.0
386723 2009 YE_{7}	4.2	X	182.19379	99.69740	141.60774	29.08963	0.1477481	0.00335777	44.17	37.6	50.7	Tn	12 1.8	21.3
386968 2012 BR_{61}	9.5	X	3.36759	158.43407	24.44030	2.03520	0.4631800	0.00971550	21.75	11.7	31.8	Ct	3 29.5	20.0
389820 2011 WU_{92}	13.1	X	55.18200	22.76038	101.26991	6.44332	0.3739105	0.03723091	8.88	5.6	12.2	Ct	4 29.3	21.8
395699 2012 GN_{12}	10.7	X	46.69262	172.26665	350.73220	12.59939	0.3752500	0.01666063	15.18	9.5	20.9	Ct	5 28.1	21.7
408832 2001 QJ_{298}	6.2	X	247.94086	299.38111	162.72641	2.15719	0.0388661	0.00337811	43.99	42.3	45.7	Tn	9 8.8	22.7
413666 2005 VJ_{119}	10.7	X	14.67291	246.15291	301.45342	6.95434	0.6826336	0.00464174	35.59	11.3	59.9	Sd	6 17.0	22.8
415720 1999 RU_{215}	7.3	X	51.78931	326.76875	14.33825	7.75252	0.0674285	0.00351466	42.84	40.0	45.7	Tn	10 31.7	23.5
416400 2003 UZ_{117}	5.2	X	339.94344	247.43187	204.72212	27.47261	0.1299870	0.00337090	44.05	38.3	49.8	Tn	11 28.6	21.1
418993 2009 MS_{9}	9.9	X	0.24508	128.61722	220.22272	68.07928	0.9690517	0.00014716	355.31	11.0	699.6	Sd	11 5.4	21.3
420356 Praamzius	5.6	X	187.38193	354.01398	314.24866	1.09646	0.0058549	0.00352255	42.78	42.5	43.0	Tn	2 3.7	21.9
427507 2002 DH_{5}	10.1	X	66.20368	328.36296	156.91886	22.46099	0.3654296	0.00946111	22.14	14.0	30.2	Ct	5 18.3	23.5
427581 2003 QB_{92}	7.9	X	159.05006	63.94392	120.05341	3.49009	0.0955716	0.00479682	34.82	31.5	38.1	Tn	9 10.4	23.7
427614 2003 SR_{422}	7.1	X	244.16621	70.41169	99.79038	23.93472	0.0564728	0.00390545	39.94	37.7	42.2	Tn	11 18.5	23.3
432949 2012 HH_{2}	6.4	X	32.45140	101.66603	56.51730	28.53441	0.1677920	0.00473759	35.11	29.2	41.0	Tn	4 21.7	21.3
434194 2003 FK_{127}	7.3	X	349.28661	115.59896	84.39201	2.27126	0.0544643	0.00351379	42.85	40.5	45.2	Tn	3 29.1	23.4
434390 2005 CH_{81}	8.2	X	10.21230	15.97696	122.79712	5.13702	0.3221499	0.00238132	55.54	37.6	73.4	Sd	2 28.5	24.0
434709 2006 CJ_{69}	7.6	X	339.82928	59.34577	130.43413	17.91277	0.2329832	0.00356685	42.42	32.5	52.3	Tn	2 26.7	22.9
437360 2013 TV_{158}	6.3	X	358.46691	232.09465	181.13084	31.18169	0.6678593	0.00085681	109.79	36.5	183.1	Sd	11 7.9	22.0
437871 2001 FN_{185}	7.2	X	6.33542	12.19205	203.26626	21.68108	0.0792274	0.00351682	42.83	39.4	46.2	Tn	5 3.8	23.2
437915 2002 GD_{32}	5.8	X	175.68583	24.99802	22.12531	6.56992	0.1300792	0.00329147	44.76	38.9	50.6	Tn	5 3.0	22.8
438028 2004 EH_{96}	8.4	X	26.17839	301.87097	226.18976	3.12542	0.2846592	0.00392870	39.78	28.5	51.1	Tn	4 23.9	23.2
439858 1999 ON_{4}	7.6	X	22.21483	183.47135	133.07885	3.18929	0.0405155	0.00354743	42.58	40.9	44.3	Tn	9 3.7	23.7
443843 2001 FO_{185}	7.3	X	31.61198	336.69448	205.73256	10.60727	0.1239615	0.00307478	46.84	41.0	52.6	Tn	5 3.3	23.5
444018 2004 EU_{95}	7.0	X	26.58869	125.88313	65.65125	2.81746	0.0505461	0.00332058	44.50	42.2	46.7	Tn	5 1.3	23.3
444025 2004 HJ_{79}	6.9	X	268.06767	273.68895	45.30773	3.30903	0.0450496	0.00334442	44.28	42.3	46.3	Tn	5 2.0	23.4
444030 2004 NT_{33}	4.7	X	41.70655	37.40230	240.87252	31.23125	0.1517188	0.00344398	43.43	36.8	50.0	Tn	8 14.6	20.7
444745 2007 JF_{43}	5.5	X	296.65889	120.96136	207.40440	15.04717	0.1835615	0.00395491	39.60	32.3	46.9	Tn	5 26.1	21.3
445473 2010 VZ_{98}	5.1	X	358.00253	313.88572	117.38765	4.51104	0.7719334	0.00053360	150.54	34.3	266.8	Sd	11 11.6	20.6
447178 2005 RO_{43}	7.3	X	327.79109	326.71637	198.26373	35.49767	0.5200164	0.00637126	28.82	13.8	43.8	Ct	12 7.9	20.5
449097 2012 UT_{68}	9.5	X	15.44268	5.83999	43.90471	15.42960	0.3753269	0.01085991	20.20	12.6	27.8	Ct	12 18.2	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	q	Q	T	Oppos.	V
	m		°	°	°	°		°						
450265 2003 WU_{172}	6.6	X	353.83248	100.97796	10.45811	4.14648	0.2547807	0.00402690	39.13	29.2	49.1	Tn	—	—
451657 2012 WD_{36}	6.9	X	337.35651	294.04308	177.40205	23.72021	0.5079759	0.00148861	75.97	37.4	114.6	Sd	11 8.8	23.7
455171 1999 OM_{4}	7.1	X	78.39166	131.96313	113.80937	2.08799	0.1224425	0.00316461	45.95	40.3	51.6	Tn	9 1.3	23.7
455206 2001 FE_{193}	7.2	X	55.69013	341.81021	154.81553	2.80985	0.1264316	0.00305682	47.02	41.1	53.0	Tn	4 15.7	23.7
455209 2001 KT_{76}	7.1	X	56.57455	348.82581	184.34955	1.70458	0.0908658	0.00321682	45.45	41.3	49.6	Tn	5 19.9	23.5
455502 2003 UZ_{413}	4.4	X	111.63362	144.51827	136.05884	12.04510	0.2252095	0.00403481	39.08	30.3	47.9	Tn	11 19.1	20.8
456826 2007 TH_{422}	7.6	X	15.78939	312.82550	96.33554	28.56958	0.2732812	0.00402080	39.17	28.5	49.9	Tn	12 12.9	22.3
459865 2013 XZ_{8}	9.7	X	333.46969	288.14828	266.67513	22.52862	0.3750060	0.01990473	13.48	8.4	18.5	Ct	1 23.8	19.7
459870 2014 AT_{28}	11.9	X	0.83312	279.53820	262.53833	165.55866	0.4048726	0.02722987	10.94	6.5	15.4	Ct	9 8.9	20.0
459971 2014 ON_{6}	11.6	X	29.65079	195.19477	94.29952	3.94220	0.5643489	0.02039705	13.27	5.8	20.8	Ct	10 17.2	21.1
463368 2012 VU_{85}	7.2	X	315.62602	265.51572	252.59316	15.09470	0.3111283	0.00625149	29.18	20.1	38.3	Ct	12 14.0	21.0
463663 2014 HY_{123}	11.3	X	2.70091	231.53780	314.90552	13.92738	0.6293591	0.01206925	18.82	7.0	30.7	Ct	3 25.5	19.7