Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136001 2002 VS_{43}	15.6	X	65.04760	200.42390	124.11730	4.64005	0.1625635	0.21168761	2.7882974	21	12 13.7	19.6
136002 2002 VZ_{43}	15.1	X	143.28331	50.09094	290.91634	10.59618	0.2104251	0.22458384	2.6805076	21	1 6.2	18.9
136003 2002 VB_{53}	15.9	X	181.51815	208.90148	175.10895	0.98107	0.1703187	0.23551502	2.5969105	21	3 29.3	20.0
136004 2002 VR_{55}	16.0	X	104.25456	22.84789	318.64997	1.73045	0.1924776	0.21911303	2.7249419	21	—	—
136005 2002 VB_{56}	15.8	X	124.93997	164.53041	148.17863	5.96059	0.1095992	0.21788724	2.7351523	21	—	—
136006 2002 VR_{56}	16.0	X	228.23613	154.68276	187.00797	15.15610	0.2972026	0.23872851	2.5735534	21	3 13.4	20.8
136007 2002 VU_{59}	15.3	X	267.35091	231.57381	162.54576	2.42271	0.0115318	0.19538896	2.9412778	21	7 27.3	19.3
136008 2002 VB_{60}	15.9	X	169.91635	264.39833	97.97179	6.21384	0.2573845	0.23227993	2.6209673	21	2 28.4	20.4
136009 2002 VM_{61}	15.9	X	127.47244	21.52963	314.57985	2.04095	0.0908859	0.22135401	2.7065192	21	—	—
136010 2002 VJ_{63}	15.5	X	248.54319	340.60251	351.59666	5.24543	0.1441443	0.23826461	2.5768928	21	3 26.7	19.6
136011 2002 VB_{64}	15.2	X	126.36263	95.77947	250.40774	13.54908	0.1778865	0.22316152	2.6918851	21	—	—
136012 2002 VG_{64}	15.0	X	94.12513	302.77136	357.66228	6.85653	0.2342467	0.21260977	2.7802290	21	12 19.1	19.7
136013 2002 VP_{66}	15.8	X	67.82791	149.80109	180.33054	2.57250	0.1896819	0.21318922	2.7751889	21	12 26.3	19.9
136014 2002 VV_{67}	15.2	X	241.36298	314.57829	341.23453	10.91257	0.2211181	0.23394304	2.6085308	21	2 3.9	19.7
136015 2002 VT_{68}	13.8	X	280.04261	161.30263	92.16728	23.58400	0.0425696	0.17575378	3.1564550	21	2 18.3	18.7
136016 2002 VQ_{71}	15.2	X	23.11436	340.11678	75.52501	9.72899	0.1151113	0.21597818	2.7512462	21	—	—
136017 2002 VH_{74}	15.3	X	281.06183	298.67333	110.23180	3.60532	0.0493668	0.20003804	2.8955272	21	8 30.3	19.2
136018 2002 VP_{76}	15.2	X	340.82416	116.31274	227.60158	11.86820	0.1171687	0.19914306	2.9041961	21	8 20.4	18.9
136019 2002 VP_{77}	15.4	X	44.93843	253.31755	96.40586	5.34907	0.1159151	0.21014114	2.8019604	21	12 14.3	19.1
136020 2002 VM_{81}	16.6	X	292.35162	180.53908	168.78747	4.31891	0.2002109	0.29972755	2.2113201	21	5 29.9	19.1
136021 2002 VR_{82}	14.3	X	213.41558	3.47881	99.42319	12.46830	0.1042323	0.19242226	2.9714323	21	8 10.9	18.9
136022 2002 VV_{82}	14.7	X	235.96346	293.91016	86.19406	23.05230	0.1348898	0.18689190	3.0297658	21	5 23.2	19.6
136023 2002 VW_{85}	13.9	X	112.59880	57.41548	27.96669	27.16262	0.2478630	0.17540213	3.1606723	21	4 19.9	18.7
136024 2002 VK_{87}	14.9	X	99.30446	78.69607	265.48352	5.84248	0.1072803	0.21723910	2.7405899	21	—	—
136025 2002 VH_{88}	15.7	X	153.32540	344.17168	323.19117	4.40474	0.0249893	0.22015356	2.7163490	21	—	—
136026 2002 VY_{96}	15.1	X	323.75962	339.01294	0.66417	10.25190	0.1178347	0.19740554	2.9212126	21	7 24.5	18.8
136027 2002 VS_{100}	15.9	X	128.21983	26.62689	350.93968	4.07372	0.0765536	0.22579546	2.6709100	21	1 17.4	19.4
136028 2002 VR_{101}	14.2	X	136.99819	3.12956	81.96369	29.07104	0.1323165	0.18000511	3.1065582	21	5 12.8	19.3
136029 2002 VU_{104}	15.8	X	40.51657	97.88973	346.12108	4.32187	0.1347045	0.22037882	2.7144977	21	—	—
136030 2002 VV_{104}	15.1	X	355.67735	58.67025	29.82338	8.56758	0.0638126	0.21474870	2.7617373	21	—	—
136031 2002 VK_{109}	14.9	X	231.92037	330.90822	49.36058	9.24996	0.0935960	0.18766736	3.0214139	21	5 16.9	19.3
136032 2002 VP_{110}	14.3	X	160.89694	349.51831	93.35365	12.28390	0.2332984	0.17982534	3.1086283	21	5 29.2	19.7
136033 2002 VM_{113}	15.6	X	265.18303	355.39394	70.29755	2.97742	0.1268884	0.19785446	2.9167922	21	8 19.4	19.6
136034 2002 VU_{117}	14.8	X	13.60705	58.38542	334.81940	24.52567	0.1619682	0.21147526	2.7901636	21	—	—
136035 2002 VC_{120}	15.3	X	16.02445	339.23670	10.51355	6.38174	0.2446193	0.20647208	2.8350572	21	11 19.6	18.5
136036 2002 VK_{122}	15.1	X	75.19317	16.74437	348.54433	8.97431	0.1961440	0.21753260	2.7381242	21	—	—
136037 2002 VG_{129}	15.7	X	105.44510	119.16351	218.59578	2.90860	0.0451265	0.21508080	2.7588936	21	—	—
136038 2002 WR	15.0	X	27.40769	51.69214	6.64878	33.05652	0.2939369	0.21502720	2.7593521	21	—	—
136039 2002 WR_{4}	15.4	X	99.94665	54.84599	272.80571	8.19468	0.1840132	0.21784940	2.7354690	21	—	—
136040 2002 WL_{7}	15.0	X	106.16149	147.18345	343.09867	0.54505	0.1366344	0.18233482	3.0800396	21	5 25.1	19.5
136041 2002 WY_{11}	15.0	X	6.00479	277.89561	135.61369	11.85923	0.2494144	0.21135461	2.7912253	21	—	—
136042 2002 WJ_{12}	15.0	X	67.09625	242.05518	117.90176	17.74596	0.2625080	0.21551517	2.7551853	21	—	—
136043 2002 WB_{14}	15.9	X	82.18132	194.56675	178.49374	5.33258	0.0878982	0.21699373	2.7426555	21	—	—
136044 2002 XH_{6}	15.7	X	183.90300	208.69219	132.28491	7.28014	0.2786246	0.23007875	2.6376573	21	2 13.1	20.4
136045 2002 XK_{8}	15.6	X	128.45246	356.89726	341.14403	6.22433	0.1530471	0.22151405	2.7052155	21	—	—
136046 2002 XW_{8}	15.3	X	226.80187	102.57898	278.18211	4.15880	0.0605269	0.18771973	3.0208519	21	5 14.1	19.8
136047 2002 XK_{16}	14.7	X	160.25344	98.07631	2.01276	11.08765	0.0211515	0.18847189	3.0128094	21	6 4.8	19.2
136048 2002 XD_{17}	14.6	X	93.17157	166.07956	294.35992	14.22765	0.0292996	0.17786659	3.1314090	21	3 10.6	19.2
136049 2002 XN_{23}	15.1	X	113.25913	85.19593	296.04490	9.23871	0.1692546	0.22402502	2.6849634	21	1 16.1	18.3
136050 2002 XH_{26}	15.2	X	303.14274	80.89163	302.01406	6.42935	0.0652165	0.19937984	2.9018963	21	8 21.6	19.1
136051 2002 XF_{27}	15.1	X	35.43630	38.15065	333.06876	7.22445	0.1071411	0.21183097	2.7870392	21	12 28.5	18.9
136052 2002 XL_{30}	14.7	X	129.78288	179.88849	297.34703	13.44082	0.0752281	0.18467923	3.0539178	21	5 26.9	19.3
136053 2002 XQ_{30}	14.9	X	209.78304	302.15158	9.10936	12.90183	0.2584654	0.22914957	2.6447828	21	1 31.7	19.8
136054 2002 XN_{33}	15.2	X	85.77067	310.21462	105.26117	13.79282	0.1607051	0.22496971	2.6774417	21	1 20.1	18.2
136055 2002 XR_{36}	14.9	X	32.81634	7.33608	32.61114	15.54731	0.1686411	0.21264244	2.7799443	21	—	—
136056 2002 XQ_{49}	15.4	X	149.50980	340.76530	159.11028	1.40024	0.1850097	0.18722650	3.0261551	21	7 23.6	20.5
136057 2002 XZ_{49}	15.6	X	33.36702	347.13657	356.86874	1.39341	0.0735264	0.20490098	2.8495309	21	11 14.3	19.2
136058 2002 XH_{53}	15.4	X	65.79242	274.36515	74.03943	3.00976	0.2021658	0.21298262	2.7769833	21	—	—
136059 2002 XV_{55}	14.3	X	213.40925	149.31651	267.18263	12.72880	0.0891329	0.18385901	3.0629937	21	6 12.3	19.0
136060 2002 XD_{73}	14.9	X	94.19968	292.28471	42.78179	9.30754	0.2079664	0.21502569	2.7593650	21	—	—
136061 2002 XK_{75}	15.8	X	92.49812	71.34331	2.12498	3.19979	0.2204476	0.22509234	2.6764691	21	3 4.6	19.1
136062 2002 XJ_{76}	15.1	X	216.26702	17.88631	41.25002	3.77937	0.1538436	0.18792012	3.0187039	21	6 14.4	20.0
136063 2002 XC_{78}	14.9	X	293.29452	62.38784	274.09861	14.08497	0.0663156	0.19041764	2.9922503	21	6 8.3	19.0
136064 2002 XW_{83}	14.8	X	109.35178	267.69005	113.53530	13.90922	0.1997937	0.22385844	2.6862952	21	1 15.6	18.3
136065 2002 XD_{84}	15.3	X	37.01146	295.09459	121.00964	14.49945	0.1908644	0.21635920	2.7480152	21	—	—
136066 2002 XU_{84}	14.7	X	205.49206	130.73496	299.03492	16.99003	0.2032226	0.18547505	3.0451759	21	6 16.9	20.0
136067 2002 XK_{88}	14.5	X	141.07117	77.14814	348.62803	28.18027	0.3451898	0.22921924	2.6442469	21	4 12.2	19.6
136068 2002 XH_{93}	14.9	X	93.81353	56.65568	69.06540	6.21849	0.1058124	0.17888069	3.1195629	21	5 1.8	19.2
136069 2002 XO_{98}	15.7	X	320.39161	336.51868	45.17835	2.81864	0.0777263	0.20006409	2.8952759	21	9 16.7	19.2
136070 2002 XO_{102}	15.5	X	91.16733	231.76501	83.23609	8.96672	0.3052248	0.21306574	2.7762610	21	—	—
136071 2002 XF_{106}	15.2	X	214.60518	122.49738	307.14734	7.51403	0.0697734	0.19025677	2.9939369	21	7 1.9	19.7
136072 2002 YN	15.7	X	30.46369	305.30942	98.56132	10.11219	0.2793756	0.21167798	2.7883820	21	—	—
136073 2002 YH_{6}	14.8	X	278.84121	55.67121	276.50088	12.60839	0.0833368	0.18399114	3.0615271	21	5 10.1	19.3
136074 2002 YJ_{16}	14.5	X	96.29547	77.02234	77.57626	24.99980	0.0710754	0.18412030	3.0600951	21	6 4.7	18.9
136075 2002 YD_{29}	14.8	X	233.24798	260.79108	109.69613	14.01357	0.1483406	0.18193453	3.0845558	21	5 8.3	19.9
136076 2003 AC_{8}	14.2	X	127.53027	43.61664	42.08100	17.94697	0.1461716	0.17738077	3.1371240	21	4 26.2	18.9
136077 2003 AP_{17}	14.8	X	52.84649	32.59336	7.91915	9.40136	0.1937005	0.21677633	2.7444889	21	—	—
136078 2003 AH_{30}	14.4	X	180.74888	85.00471	297.42251	12.09695	0.1420198	0.17441337	3.1726065	21	3 24.7	19.8
136079 2003 AR_{36}	14.8	X	124.19904	256.67022	111.39260	12.28018	0.2936966	0.22260516	2.6963684	21	1 30.3	18.8
136080 2003 AQ_{49}	14.5	X	88.46367	341.90616	97.92515	16.20038	0.0536316	0.16877739	3.2428477	21	2 25.0	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136081 2003 AH_{57}	14.6	X	155.25310	109.70034	316.90570	21.30165	0.1160429	0.17640565	3.1486742	21	4 15.9	20.0
136082 2003 AH_{60}	16.2	X	53.16112	83.17479	18.59108	3.69431	0.1266573	0.27175628	2.3605669	21	1 9.3	18.3
136083 2003 AY_{65}	14.3	X	162.95382	33.76915	342.26834	13.42627	0.0959439	0.17115184	3.2127850	21	3 4.6	19.3
136084 2003 AE_{66}	14.3	X	37.77144	189.90886	332.52052	17.95143	0.0969859	0.17089119	3.2160510	21	3 21.4	18.6
136085 2003 AQ_{74}	14.7	X	92.64647	161.30444	330.60794	11.27325	0.1304033	0.17638247	3.1489500	21	5 5.9	19.4
136086 2003 AC_{77}	15.4	X	61.95399	67.41969	0.69760	9.30106	0.2018330	0.21824587	2.7321552	21	1 2.7	18.2
136087 2003 AO_{86}	14.5	X	42.73468	30.85471	123.13147	12.55533	0.0948335	0.17404074	3.1771333	21	3 30.2	18.7
136088 2003 BO_{7}	15.4	X	81.94822	285.05521	184.94854	11.99186	0.1334494	0.22854555	2.6494407	21	3 22.7	18.6
136089 2003 BG_{17}	14.3	X	226.77807	45.41357	349.26526	19.40796	0.1255644	0.17980153	3.1089027	21	5 21.6	19.5
136090 2003 BZ_{28}	14.8	X	123.85631	353.41736	112.83296	11.92053	0.0812748	0.18058661	3.0998858	21	5 12.8	19.5
136091 2003 BK_{31}	14.8	X	263.30200	226.92732	137.08639	17.40718	0.1793183	0.18341398	3.0679464	21	5 26.6	19.8
136092 2003 BN_{36}	14.6	X	126.23735	104.26710	311.29806	14.50185	0.1019714	0.16965119	3.2317030	21	3 8.1	19.5
136093 2003 BA_{48}	16.1	X	8.24016	164.34158	266.88110	2.47506	0.2031805	0.26206069	2.4184371	21	—	—
136094 2003 BC_{51}	16.8	X	28.93660	307.67770	190.92191	1.52589	0.1812557	0.27241609	2.3567538	21	1 11.8	18.6
136095 2003 BG_{68}	15.7	X	57.70618	312.69287	166.24510	13.25957	0.0741957	0.21803599	2.7339082	21	2 19.2	19.1
136096 2003 CV_{8}	14.6	X	172.54960	281.01954	127.48641	15.80581	0.2679635	0.17633956	3.1494609	21	5 3.0	20.4
136097 2003 CS_{17}	15.4	X	106.26897	176.75981	312.17247	11.91843	0.1238159	0.22635931	2.6664727	21	5 16.1	19.3
136098 2003 DD	15.5	X	26.94087	81.68907	328.04497	5.22287	0.0690875	0.20533062	2.8455545	21	—	—
136099 2003 DD_{4}	15.2	X	273.90694	132.61559	142.07467	5.91206	0.1324447	0.21657910	2.7461548	21	2 14.5	19.4
136100 2003 DW_{12}	14.9	X	51.40395	287.27179	175.82837	2.39726	0.0677767	0.15958219	3.3662505	21	2 2.5	19.4
136101 2003 EA_{2}	14.4	X	258.80573	14.03063	354.83837	16.61084	0.2003982	0.18030447	3.1031186	21	5 15.1	19.6
136102 2003 EW_{2}	15.3	X	350.36730	40.27953	162.30401	11.48612	0.0949909	0.21816311	2.7328460	21	2 25.8	18.4
136103 2003 EN_{22}	15.2	X	320.48096	43.76158	160.35891	9.58582	0.1062593	0.21370759	2.7706995	21	1 15.4	19.1
136104 2003 EO_{22}	14.8	X	51.56972	153.21080	40.68674	5.35360	0.0979157	0.17198965	3.2023429	21	5 28.6	18.9
136105 2003 EC_{27}	16.6	X	333.57916	342.14559	180.79837	1.77910	0.1495472	0.26465457	2.4026091	21	—	—
136106 2003 EW_{33}	16.5	X	16.12049	233.93469	256.94727	1.55667	0.1444033	0.26697157	2.3886877	21	—	—
136107 2003 EY_{58}	15.5	X	182.48874	294.84414	134.34681	13.97028	0.1675266	0.22953388	2.6418299	21	5 29.1	20.0
136108 Haumea	0.2	X	218.58550	239.34414	122.15633	28.21336	0.1977923	0.00348905	43.0524362	21	4 28.5	17.3
136109 2003 FA_{22}	17.2	X	31.02769	79.65741	187.69527	4.15228	0.1594030	0.28418708	2.2912184	21	8 17.2	19.2
136110 2003 FZ_{60}	15.6	X	253.55316	186.68431	146.50509	6.18227	0.0727137	0.22147205	2.7055574	21	4 13.9	19.5
136111 2003 FC_{79}	15.7	X	115.83166	129.03359	349.13969	5.84525	0.0817967	0.22349923	2.6891727	21	5 9.3	19.5
136112 2003 FY_{104}	16.7	X	297.20275	148.21403	105.01296	2.96734	0.1739269	0.26765069	2.3846454	21	1 31.3	20.0
136113 2003 GA_{5}	15.3	X	58.42407	211.57110	30.40865	5.50107	0.0934832	0.17677511	3.1442855	21	8 11.8	19.6
136114 2003 GU_{37}	17.2	X	144.31833	50.09319	195.94643	1.65395	0.1234403	0.29755474	2.2220721	21	12 6.5	20.3
136115 2003 HC_{3}	15.3	X	154.71329	180.10911	207.29786	6.54938	0.0635152	0.21285394	2.7781024	21	2 27.4	19.3
136116 2003 HA_{16}	16.7	X	21.55517	52.56088	131.25470	24.81795	0.0888973	0.37778758	1.8951238	21	2 17.7	18.0
136117 2003 HL_{28}	16.7	X	326.34738	191.55380	40.27686	21.46893	0.0443721	0.37508670	1.9042104	21	2 20.8	19.2
136118 2003 KV	16.3	X	173.14554	267.17256	312.08120	3.20734	0.1150187	0.29566386	2.2315360	21	12 1.3	19.5
136119 2003 KH_{19}	15.7	X	148.26953	231.35473	83.01653	8.03471	0.2095719	0.24653977	2.5189027	21	—	—
136120 2003 LG_{7}	7.9	X	17.84879	342.95835	238.34749	20.09632	0.4809335	0.00198627	62.6772450	21	6 23.7	23.6
136121 2003 OA	17.5	X	198.00845	32.20623	208.28015	3.50087	0.1383996	0.30234108	2.1985581	21	—	—
136122 2003 OQ_{29}	16.1	X	97.94063	237.10092	134.50659	7.55081	0.2229602	0.29460162	2.2368969	21	—	—
136123 2003 QK_{40}	16.9	X	295.98154	350.67112	344.75531	1.61218	0.1599255	0.26523091	2.3991273	21	5 22.3	19.8
136124 2003 QC_{56}	16.5	X	220.41832	253.85860	119.08684	3.33865	0.2097842	0.25774692	2.4453464	21	4 17.9	20.5
136125 2003 QU_{65}	15.9	X	40.41760	277.05836	119.02506	5.91961	0.0718041	0.23431024	2.6058048	21	—	—
136126 2003 QN_{79}	16.3	X	141.87966	270.09423	78.32448	6.85960	0.2318944	0.29456245	2.2370952	21	1 2.8	19.1
136127 2003 RA_{15}	14.5	X	181.98707	327.68978	310.27144	11.78464	0.1417769	0.18463144	3.0544448	21	—	—
136128 2003 SO_{36}	16.8	X	54.85340	17.94526	44.33630	0.89526	0.1207506	0.29277302	2.2462013	21	—	—
136129 2003 SL_{57}	17.1	X	176.87211	183.53085	199.11257	4.17180	0.1722488	0.30565981	2.1826151	21	3 15.6	20.4
136130 2003 SH_{87}	16.4	X	11.22830	259.82401	102.93274	5.61241	0.2383940	0.27908074	2.3190822	21	12 19.2	18.7
136131 2003 SE_{96}	15.6	X	25.03816	104.35687	302.87207	7.87804	0.1195050	0.28560137	2.2836481	21	—	—
136132 2003 SC_{98}	16.0	X	140.66318	314.56415	285.83578	9.87109	0.1737450	0.28096429	2.3087060	21	11 21.6	19.9
136133 2003 SC_{110}	16.5	X	112.01772	323.39523	4.97690	6.34352	0.1351373	0.28852267	2.2682074	21	—	—
136134 2003 SY_{117}	16.6	X	150.87400	223.87162	8.71351	0.76021	0.0185517	0.27876194	2.3208499	21	11 25.2	19.4
136135 2003 SN_{138}	16.9	X	198.65623	63.02929	283.11821	6.07240	0.1572951	0.30585516	2.1816857	21	2 15.3	20.1
136136 2003 ST_{147}	16.4	X	140.18906	14.71103	330.55428	7.61648	0.0288801	0.29450953	2.2373631	21	—	—
136137 2003 SU_{188}	15.5	X	252.01262	318.64316	84.83574	5.42761	0.1184396	0.20982317	2.8047904	21	7 5.6	19.4
136138 2003 SH_{199}	16.4	X	117.19413	133.48487	234.57888	6.22829	0.1253399	0.29413397	2.2392672	21	—	—
136139 2003 SH_{201}	15.1	X	204.80251	250.56069	300.86216	22.72616	0.2607644	0.28325935	2.2962185	21	11 6.8	19.3
136140 2003 SS_{220}	16.1	X	80.94106	297.27481	50.94721	4.35597	0.1806648	0.28509986	2.2863254	21	—	—
136141 2003 SM_{228}	17.3	X	198.15252	324.55830	313.77833	0.67084	0.1510962	0.29748479	2.2224203	21	—	—
136142 2003 ST_{235}	16.6	X	209.41733	44.94914	243.58753	3.25823	0.1675691	0.29969223	2.2114938	21	—	—
136143 2003 SQ_{251}	16.2	X	21.69343	184.96943	225.69385	4.19313	0.1452427	0.28263525	2.2995975	21	—	—
136144 2003 SV_{288}	16.6	X	245.23238	228.24145	39.84518	6.16660	0.1514612	0.30211209	2.1996689	21	—	—
136145 2003 SC_{291}	16.5	X	128.25261	336.44727	21.01606	5.48281	0.1760802	0.29422551	2.2388027	21	—	—
136146 2003 SA_{294}	17.0	X	208.06435	215.74887	102.60617	4.17845	0.2451718	0.30250514	2.1977631	21	1 25.9	20.8
136147 2003 SU_{296}	15.2	X	137.70941	91.79853	358.95839	10.87449	0.2487752	0.24437547	2.5337532	21	5 12.9	19.5
136148 2003 SC_{306}	16.4	X	148.15883	35.67123	311.87263	6.62823	0.1335620	0.29556637	2.2320266	21	—	—
136149 2003 SR_{313}	16.8	X	213.22351	257.80622	68.86333	7.91003	0.2896268	0.30570310	2.1824091	21	2 11.9	20.7
136150 2003 TJ	15.6	X	29.35952	33.47517	5.28206	25.19844	0.2700773	0.28121886	2.3073125	21	—	—
136151 2003 TM_{2}	16.1	X	120.57726	235.98029	75.47837	9.02926	0.1602698	0.28760535	2.2730278	21	—	—
136152 2003 TQ_{12}	16.6	X	107.83681	189.42912	218.30860	5.02609	0.1513885	0.29706202	2.2245285	21	1 22.1	18.9
136153 2003 TH_{13}	15.9	X	18.11364	353.98654	71.28841	25.89433	0.2040466	0.28451599	2.2894523	21	—	—
136154 2003 TX_{14}	16.7	X	179.37933	157.94705	159.57385	6.68997	0.1433885	0.29756743	2.2220089	21	—	—
136155 2003 TQ_{24}	17.1	X	147.57823	318.10566	276.93060	3.54733	0.1160771	0.28079101	2.3096557	21	11 22.7	20.4
136156 2003 TX_{27}	15.7	X	210.24122	137.26466	123.69749	14.55680	0.0279811	0.23549610	2.5970496	21	—	—
136157 2003 TQ_{39}	16.9	X	123.58827	294.42470	324.63827	5.31927	0.1475092	0.28103363	2.3083262	21	11 29.2	20.5
136158 2003 UU_{14}	16.4	X	259.39571	293.86962	226.45171	5.98296	0.0381002	0.28269829	2.2992557	21	—	—
136159 2003 UE_{15}	17.2	X	188.80564	51.19435	345.94940	0.91219	0.1283240	0.30860821	2.1686913	21	4 14.1	20.3
136160 2003 UU_{15}	16.7	X	93.20255	247.68031	91.49516	2.01437	0.1860370	0.28617395	2.2806010	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136161 2003 US_{23}	16.8	X	124.70712	16.83869	26.22518	2.47396	0.1591463	0.29832839	2.2182287	21	2 13.3	19.4
136162 2003 UR_{29}	16.4	X	33.89299	11.88141	41.89438	7.20576	0.1061771	0.28572314	2.2829993	21	—	—
136163 2003 UY_{40}	16.7	X	116.59192	323.47180	353.14217	2.03304	0.2300503	0.28745487	2.2738210	21	—	—
136164 2003 UO_{47}	16.9	X	239.62664	2.19823	334.61567	1.68198	0.1487275	0.30896920	2.1670017	21	3 16.4	20.2
136165 2003 UQ_{48}	15.3	X	347.00281	127.34000	74.81691	14.05980	0.1288130	0.24484292	2.5305272	21	2 16.1	18.5
136166 2003 UH_{73}	15.2	X	292.04727	345.92089	215.80110	4.41591	0.0764217	0.18061958	3.0995085	21	—	—
136167 2003 UP_{85}	16.8	X	227.85570	215.51531	70.13504	3.31203	0.1488265	0.29906345	2.2145925	21	—	—
136168 2003 UC_{98}	16.3	X	255.00103	274.41007	142.30251	6.61786	0.1275861	0.26327445	2.4109983	21	7 25.9	19.4
136169 2003 UN_{109}	16.8	X	101.29984	344.11421	338.26873	2.40817	0.1422437	0.28451624	2.2894509	21	—	—
136170 2003 UD_{118}	15.7	X	329.75874	133.27503	230.65953	5.17100	0.0124166	0.21515143	2.7582898	21	9 8.2	19.5
136171 2003 UE_{119}	16.3	X	41.98686	144.76556	134.18417	0.76331	0.0283949	0.21373072	2.7704995	21	8 28.8	19.9
136172 2003 US_{123}	16.1	X	74.36273	84.50050	214.20242	10.11033	0.1492079	0.22105162	2.7089870	21	11 22.6	20.0
136173 2003 UU_{129}	16.0	X	283.37355	194.00532	292.85296	6.81430	0.1290949	0.27770390	2.3267411	21	12 20.7	18.3
136174 2003 UJ_{132}	16.2	X	118.91311	17.78161	295.12070	5.86967	0.1944377	0.28599085	2.2815743	21	—	—
136175 2003 UV_{132}	16.3	X	73.22029	18.57170	289.39519	5.81493	0.1215395	0.27644424	2.3338038	21	12 7.9	19.5
136176 2003 UU_{141}	15.7	X	355.41583	224.18584	142.20554	6.48370	0.0443347	0.22050289	2.7134794	21	10 23.6	19.2
136177 2003 UY_{143}	16.6	X	134.41410	336.62907	26.46763	5.46846	0.1686612	0.29484215	2.2356801	21	1 4.2	19.3
136178 2003 UJ_{146}	16.4	X	91.63522	132.79425	179.89480	6.35581	0.1316222	0.28101057	2.3084525	21	—	—
136179 2003 UE_{147}	16.0	X	307.09728	334.62699	80.24999	7.87979	0.0951804	0.27135675	2.3628834	21	10 23.3	18.5
136180 2003 UJ_{183}	16.8	X	184.78102	141.38660	124.53937	1.94020	0.0815613	0.28865817	2.2674975	21	—	—
136181 2003 UB_{199}	17.3	X	248.94927	30.47911	304.77154	0.91933	0.0310038	0.31024887	2.1610389	21	4 2.4	19.8
136182 2003 UE_{202}	17.2	X	90.36181	243.46619	350.41243	0.96899	0.1450557	0.27015408	2.3698909	21	9 23.2	20.2
136183 2003 UH_{208}	14.3	X	93.42365	86.94510	278.84878	15.28335	0.3204599	0.22918612	2.6445017	21	—	—
136184 2003 UV_{209}	16.4	X	155.90102	20.93356	297.47984	3.80288	0.2455835	0.29387221	2.2405968	21	—	—
136185 2003 UH_{210}	16.3	X	13.55438	301.20223	37.47137	10.43055	0.1031988	0.27217411	2.3581505	21	10 25.9	18.6
136186 2003 UV_{210}	16.4	X	33.99983	355.68277	32.95305	7.16471	0.1226901	0.28197411	2.3031907	21	—	—
136187 2003 UP_{218}	15.9	X	44.90632	342.47851	77.35832	8.04132	0.2318919	0.28636113	2.2796071	21	—	—
136188 2003 UC_{232}	16.8	X	220.83153	351.93470	39.48656	2.50913	0.0758231	0.20169101	2.8796852	21	5 19.5	21.0
136189 2003 UT_{237}	17.4	X	301.14777	331.48212	29.47564	1.16116	0.1632264	0.31969782	2.1182454	21	7 7.9	19.1
136190 2003 UU_{243}	16.6	X	205.55542	353.39575	339.73332	1.56307	0.1763982	0.30121182	2.2040497	21	2 8.9	19.9
136191 2003 UU_{247}	16.5	X	61.08193	202.79668	174.94568	6.26606	0.1296848	0.28440619	2.2900415	21	—	—
136192 2003 UT_{253}	15.9	X	1.16815	303.03524	147.40507	23.66070	0.2047435	0.28692050	2.2766433	21	—	—
136193 2003 UX_{256}	16.3	X	134.52252	193.78778	157.69932	4.23709	0.1750000	0.29329031	2.2435594	21	—	—
136194 2003 UX_{267}	16.8	X	178.97520	130.12004	207.56818	1.92729	0.1915812	0.29826891	2.2185236	21	1 21.8	20.1
136195 2003 UU_{276}	16.0	X	239.07405	154.80534	296.16369	4.92322	0.0604428	0.26667393	2.3904648	21	8 30.7	19.1
136196 2003 UF_{279}	16.6	X	70.69522	143.00347	209.12334	5.94958	0.1625304	0.28276441	2.2988972	21	—	—
136197 Johnandrews	17.2	X	88.76973	85.50144	208.43392	2.79642	0.1804741	0.27838491	2.3229450	21	12 12.5	20.6
136198 2003 UJ_{296}	15.9	X	40.95964	151.30368	122.03340	0.59782	0.0291874	0.21222904	2.7835531	21	8 19.8	19.5
136199 Eris	−1.1	X	206.91127	151.44001	36.00799	43.90756	0.4334287	0.00175740	68.0074154	21	10 21.8	18.7
136200 2003 VS_{5}	16.0	X	344.96730	232.62191	57.72517	6.90241	0.1016137	0.25956353	2.4339236	21	6 17.3	18.4
136201 2003 VM_{8}	17.4	X	187.84766	221.54857	132.86179	0.91111	0.2150641	0.30207147	2.1998661	21	2 21.5	20.9
136202 2003 WY_{3}	16.2	X	45.55650	339.16300	45.32250	5.39184	0.1616354	0.28229368	2.3014521	21	—	—
136203 2003 WD_{6}	16.4	X	31.32575	140.05542	246.37415	4.12681	0.2002404	0.28052777	2.3111004	21	—	—
136204 2003 WL_{7}	8.7	X	41.37299	69.99629	4.62161	11.18318	0.2557168	0.01098243	20.0448878	21	2 10.5	20.9
136205 2003 WM_{10}	16.0	X	277.25760	239.76726	355.75783	6.42080	0.1427557	0.29453913	2.2372133	21	—	—
136206 2003 WN_{19}	16.2	X	134.87317	350.34533	0.44626	6.25344	0.1520146	0.29241102	2.2480548	21	—	—
136207 2003 WW_{19}	16.3	X	69.09204	38.96023	322.88670	5.66010	0.1883132	0.28408169	2.2917851	21	—	—
136208 2003 WD_{20}	16.2	X	141.92878	19.80317	301.87388	7.22040	0.1565337	0.28916569	2.2648435	21	—	—
136209 2003 WF_{20}	16.0	X	105.57184	35.35897	311.28586	7.44160	0.2610439	0.28880892	2.2667083	21	—	—
136210 2003 WG_{30}	16.6	X	206.22738	185.37831	305.47171	2.99701	0.1039613	0.26544544	2.3978345	21	9 8.9	20.0
136211 2003 WN_{33}	16.3	X	253.03601	138.19742	285.99812	5.29921	0.1062630	0.26310691	2.4120217	21	8 5.5	19.3
136212 2003 WA_{35}	16.3	X	62.51128	116.85946	270.07162	3.27930	0.1189436	0.28520370	2.2857704	21	—	—
136213 2003 WJ_{50}	15.5	X	276.62660	242.11094	34.86800	13.55761	0.1386551	0.24526643	2.5276133	21	2 22.0	19.4
136214 2003 WM_{50}	16.4	X	142.13561	20.54419	317.25473	6.23766	0.2039939	0.29193692	2.2504880	21	—	—
136215 2003 WK_{61}	15.7	X	294.98866	194.36779	61.78635	12.88157	0.0518102	0.24427900	2.5344202	21	2 28.4	19.3
136216 2003 WK_{71}	17.0	X	43.18380	51.83293	309.53438	1.28215	0.0346210	0.27918441	2.3185080	21	12 30.1	19.9
136217 2003 WK_{72}	16.5	X	126.16395	347.13039	8.28608	4.98706	0.1966585	0.29163848	2.2520231	21	—	—
136218 2003 WR_{73}	16.6	X	132.74066	67.13066	308.25116	2.16584	0.1673172	0.29423984	2.2387300	21	1 18.2	19.1
136219 2003 WZ_{76}	16.4	X	265.35405	321.02583	134.84443	10.04394	0.1745536	0.26797044	2.3827480	21	10 1.0	19.3
136220 2003 WO_{78}	16.6	X	40.69208	19.32020	321.13098	3.27024	0.1649116	0.27710567	2.3300886	21	12 17.8	19.5
136221 2003 WW_{80}	16.7	X	121.04558	349.51524	331.18055	2.30227	0.2455405	0.28697725	2.2763432	21	—	—
136222 2003 WE_{82}	16.4	X	174.71493	22.63092	329.17760	6.79092	0.1543671	0.29842627	2.2177437	21	2 2.8	19.6
136223 2003 WL_{84}	16.3	X	116.49352	350.93007	299.91088	6.02531	0.1112396	0.28148483	2.3058588	21	—	—
136224 2003 WH_{86}	16.1	X	179.62023	351.79875	226.53120	5.55611	0.1303419	0.27747931	2.3279965	21	12 3.7	19.4
136225 2003 WJ_{99}	16.1	X	344.22613	308.11965	334.11341	4.90365	0.0837267	0.25659513	2.4526587	21	6 4.6	18.9
136226 2003 WH_{100}	16.6	X	22.53944	269.03882	49.96105	7.08883	0.1357569	0.26848680	2.3796920	21	10 17.9	19.0
136227 2003 WZ_{103}	16.7	X	145.22411	138.94068	241.06024	1.15111	0.1527932	0.29685370	2.2255690	21	2 5.8	19.4
136228 2003 WN_{106}	16.1	X	322.96576	328.79214	113.34485	6.23307	0.1925051	0.27275102	2.3548240	21	12 31.9	17.9
136229 2003 WG_{112}	15.7	X	338.97270	6.18829	291.39138	5.25876	0.1101013	0.25892176	2.4379438	21	6 16.9	18.1
136230 2003 WC_{117}	16.2	X	313.45055	150.33960	277.65091	5.43658	0.0811356	0.27259187	2.3557405	21	11 18.8	18.7
136231 2003 WH_{118}	16.2	X	33.80851	351.22575	33.97900	7.07407	0.1381307	0.27981582	2.3150189	21	—	—
136232 2003 WH_{119}	16.2	X	99.46130	334.99623	46.66855	7.23117	0.1659194	0.28968752	2.2621229	21	—	—
136233 2003 WX_{120}	16.4	X	145.45192	345.78978	352.67638	4.55419	0.2015047	0.29104091	2.2551046	21	—	—
136234 2003 WA_{121}	16.0	X	31.90649	121.28575	305.01483	4.50686	0.1486475	0.28391668	2.2926730	21	—	—
136235 2003 WL_{122}	16.1	X	0.01977	324.74360	275.01064	5.43868	0.0839852	0.25162367	2.4848588	21	4 28.7	18.8
136236 2003 WP_{137}	16.3	X	346.61206	208.61474	248.31435	4.86337	0.1039022	0.28102887	2.3083523	21	—	—
136237 2003 WU_{141}	15.1	X	156.11125	267.08114	87.21072	14.26707	0.0761784	0.23475843	2.6024871	21	1 19.8	18.8
136238 2003 WX_{141}	15.8	X	72.17780	265.98378	101.19422	4.46400	0.2139121	0.28214877	2.3022400	21	—	—
136239 2003 WG_{142}	16.6	X	51.88701	6.71547	20.76310	1.71302	0.2349516	0.28292732	2.2980147	21	—	—
136240 2003 WY_{143}	15.5	X	63.72774	328.82493	261.58494	11.51242	0.1451692	0.26308777	2.4121387	21	8 8.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136241 2003 WM_{170}	16.0	X	60.96840	315.62537	64.73199	10.11328	0.2167801	0.28084528	2.3093582	21	—	—
136242 2003 XZ	16.6	X	67.93941	355.13804	0.92475	6.72158	0.1562572	0.28314911	2.2968145	21	—	—
136243 2003 XY_{2}	16.9	X	335.33296	200.44686	203.07323	5.92809	0.1319169	0.27315048	2.3525277	21	11 25.5	19.0
136244 2003 XV_{3}	16.7	X	272.10535	244.04752	198.87756	5.48786	0.0733238	0.26730872	2.3866787	21	10 4.8	19.3
136245 2003 XE_{4}	16.9	X	251.45622	166.94341	164.53393	4.23195	0.1942072	0.30778654	2.1725493	21	3 19.4	20.0
136246 2003 XN_{5}	16.1	X	194.22313	21.62101	313.70305	6.21047	0.1424989	0.29990904	2.2104278	21	1 30.6	19.2
136247 2003 XU_{5}	16.9	X	52.69246	235.20303	156.41887	2.43411	0.1708870	0.28457698	2.2891251	21	—	—
136248 2003 XK_{9}	15.4	X	74.95642	145.10490	343.51147	11.89548	0.1283223	0.24222743	2.5487105	21	3 30.7	18.4
136249 2003 XP_{15}	16.6	X	271.00497	162.04304	173.17100	3.14555	0.1796056	0.30921804	2.1658390	21	4 14.8	19.6
136250 2003 XP_{16}	16.4	X	321.14990	223.24063	215.54084	7.02065	0.1250847	0.27489443	2.3425674	21	12 20.2	18.6
136251 2003 XD_{19}	16.7	X	71.15078	226.60486	114.69054	7.02301	0.2012718	0.28081415	2.3095288	21	—	—
136252 2003 XX_{34}	15.8	X	110.40973	322.29221	319.72429	8.50120	0.1409237	0.27785987	2.3258703	21	12 15.6	19.4
136253 2003 XA_{39}	15.7	X	269.18505	46.31713	308.17880	6.66113	0.1335248	0.25411490	2.4685919	21	5 16.4	19.1
136254 2003 YL_{7}	15.2	X	164.45626	330.51262	53.30739	15.13762	0.1676330	0.23839524	2.5759514	21	3 21.1	19.5
136255 2003 YE_{18}	16.6	X	115.98548	286.71151	111.24993	3.55966	0.2228198	0.29193492	2.2504983	21	2 5.2	18.9
136256 2003 YS_{31}	16.4	X	319.70697	43.24727	301.48824	3.52976	0.1284349	0.26170426	2.4206325	21	7 21.9	18.8
136257 2003 YR_{37}	17.1	X	50.07536	92.22285	187.36258	1.01211	0.1690385	0.26814359	2.3817222	21	10 7.9	19.9
136258 2003 YQ_{43}	16.2	X	286.83087	237.13976	152.75881	2.33354	0.1664145	0.26037892	2.4288396	21	7 26.3	18.8
136259 2003 YH_{45}	16.5	X	343.62523	15.38961	25.37619	7.12252	0.1555489	0.27396073	2.3478869	21	12 8.1	18.7
136260 2003 YV_{58}	16.0	X	308.98227	206.78408	260.84226	4.84189	0.1465879	0.27470822	2.3436258	21	—	—
136261 2003 YO_{60}	16.6	X	93.08483	239.90181	94.33205	4.02775	0.2177181	0.28337181	2.2956110	21	—	—
136262 2003 YV_{64}	16.1	X	215.66856	279.17873	178.32966	1.06189	0.1411924	0.25737709	2.4476884	21	8 3.1	19.8
136263 2003 YR_{68}	15.4	X	277.07869	18.36304	119.51389	13.15286	0.0249846	0.21581819	2.7526058	21	12 22.2	19.1
136264 2003 YC_{70}	15.1	X	49.95517	139.86696	290.77208	28.51844	0.0777953	0.22646833	2.6656169	21	—	—
136265 2003 YN_{71}	15.3	X	187.19363	325.40637	277.60532	11.30340	0.1250901	0.22270031	2.6956003	21	—	—
136266 2003 YV_{74}	15.3	X	213.17568	145.14822	75.11826	12.53743	0.0557201	0.22209133	2.7005257	21	—	—
136267 2003 YR_{80}	14.4	X	5.55103	225.50176	311.96531	8.92918	0.1752955	0.17681265	3.1438404	21	2 18.2	17.9
136268 2003 YB_{83}	15.9	X	244.38945	213.38910	81.79853	6.81675	0.1186741	0.23700887	2.5859869	21	2 9.7	19.9
136269 2003 YQ_{87}	15.3	X	241.42486	91.42921	310.49704	5.81646	0.1631890	0.25441501	2.4666502	21	6 15.7	18.9
136270 2003 YP_{89}	15.5	X	125.39632	247.10849	70.61552	3.67981	0.0622957	0.22100973	2.7093293	21	—	—
136271 2003 YT_{95}	16.1	X	44.09439	244.92192	100.40669	8.35797	0.1316424	0.27463143	2.3440627	21	12 23.4	18.9
136272 2003 YF_{107}	15.3	X	113.91733	330.42418	181.17235	1.86000	0.0419053	0.19174770	2.9783971	21	6 17.9	19.4
136273 Csermely	16.0	X	328.70614	4.58760	289.58243	11.49924	0.1940935	0.25711533	2.4493494	21	5 6.7	18.7
136274 2003 YO_{111}	15.7	X	319.64521	237.44903	298.01855	6.96293	0.0946016	0.23214684	2.6219689	21	—	—
136275 2003 YM_{113}	16.1	X	305.82597	65.20290	346.84403	7.37071	0.1144336	0.26432988	2.4045762	21	10 7.1	18.6
136276 2003 YZ_{123}	15.9	X	158.06100	359.14359	332.13702	9.02915	0.1664391	0.29365286	2.2417124	21	—	—
136277 2003 YL_{125}	16.4	X	130.92059	2.23146	2.69917	6.33458	0.1418052	0.29204405	2.2499376	21	—	—
136278 2003 YO_{125}	15.2	X	86.88803	25.03010	284.28542	23.12472	0.1795804	0.27672422	2.3322294	21	12 30.2	18.8
136279 2003 YU_{125}	16.4	X	49.73703	91.74890	322.14686	6.39612	0.0474182	0.28614442	2.2807579	21	—	—
136280 2003 YW_{125}	16.4	X	10.04697	355.72230	38.45597	7.41685	0.1291923	0.27422056	2.3464035	21	—	—
136281 2003 YY_{128}	15.5	X	84.77043	286.98352	88.75174	15.41654	0.1214467	0.22446521	2.6814520	21	—	—
136282 2003 YZ_{129}	16.2	X	296.43249	359.60322	41.77171	7.26686	0.1517357	0.26118465	2.4238419	21	9 4.9	18.8
136283 2003 YE_{130}	14.4	X	31.42419	127.10487	41.67952	10.75986	0.0834336	0.17586864	3.1550806	21	3 29.7	18.4
136284 2003 YY_{134}	15.7	X	281.29758	3.93255	13.50277	9.45974	0.2014067	0.25780259	2.4449944	21	6 24.7	19.1
136285 2003 YF_{140}	15.2	X	8.02962	100.31852	116.45828	11.98994	0.0628960	0.18586344	3.0409322	21	4 25.7	19.3
136286 2003 YG_{146}	15.4	X	23.07754	350.31444	82.62562	15.54893	0.0224344	0.22140493	2.7061042	21	—	—
136287 2003 YR_{151}	15.8	X	160.97634	290.35370	49.39529	12.38102	0.0965905	0.23151191	2.6267606	21	1 10.4	19.8
136288 2004 AZ_{1}	15.6	X	167.81066	174.90476	109.37800	15.00106	0.0497891	0.22194838	2.7016851	21	—	—
136289 2004 AY_{2}	14.8	X	129.63930	217.44103	260.19995	21.49611	0.0833950	0.24305506	2.5429214	21	5 27.0	18.4
136290 2004 AH_{6}	15.2	X	21.86097	46.64390	141.63272	11.02063	0.0484014	0.18241514	3.0791355	21	4 7.7	19.4
136291 2004 AV_{9}	15.4	X	6.44655	314.32480	248.74745	0.31037	0.0999218	0.18184382	3.0855815	21	3 30.0	19.1
136292 2004 AU_{10}	15.7	X	161.40760	271.39453	5.40052	1.93962	0.0386022	0.21907465	2.7252602	21	—	—
136293 2004 AG_{14}	14.8	X	318.20777	109.91931	118.07615	27.07814	0.1619319	0.17756386	3.1349672	21	2 13.0	19.2
136294 2004 AK_{26}	16.3	X	114.81537	205.94664	142.67250	6.34553	0.1484519	0.28709478	2.2757219	21	—	—
136295 2004 BF_{2}	16.4	X	323.56976	260.73720	118.52961	4.88117	0.2181735	0.26432900	2.4045815	21	9 17.4	18.0
136296 2004 BR_{2}	16.7	X	358.16420	251.13855	116.38482	3.15318	0.2261410	0.26773628	2.3841372	21	11 27.0	18.6
136297 2004 BN_{9}	14.9	X	269.65802	157.47987	129.54326	10.20545	0.0458261	0.17898325	3.1183710	21	3 14.9	19.5
136298 2004 BP_{9}	16.0	X	197.68821	266.23535	118.98541	7.01743	0.1758667	0.24346992	2.5400319	21	4 16.9	20.2
136299 2004 BU_{13}	15.4	X	145.53438	228.07273	119.28737	15.05703	0.1377317	0.22853101	2.6495530	21	1 6.8	19.1
136300 2004 BU_{14}	15.6	X	340.43699	288.22250	124.14778	5.39336	0.0639944	0.21279674	2.7786003	21	11 28.9	19.1
136301 2004 BX_{14}	16.1	X	0.74557	7.08502	144.13061	3.63978	0.0909533	0.22930627	2.6435778	21	1 2.8	19.3
136302 2004 BL_{19}	15.6	X	203.90486	8.92316	11.16148	6.02721	0.2158866	0.24537090	2.5268959	21	4 11.7	19.9
136303 2004 BC_{23}	16.8	X	296.30888	235.17655	165.14404	0.89339	0.1987780	0.26190130	2.4194182	21	8 21.6	19.3
136304 2004 BB_{24}	15.5	X	72.85808	68.92491	119.38017	9.73966	0.0294165	0.19145670	2.9814143	21	6 11.7	19.7
136305 2004 BA_{34}	15.6	X	335.12327	298.37814	117.52833	5.52850	0.0611856	0.21236152	2.7823953	21	11 25.7	19.1
136306 2004 BF_{35}	15.6	X	125.93873	236.40866	97.02306	4.16894	0.0841261	0.22229538	2.6988729	21	—	—
136307 2004 BX_{43}	16.5	X	301.68445	315.00399	124.14204	3.24756	0.1964033	0.26654059	2.3912619	21	11 4.8	18.3
136308 2004 BK_{44}	14.2	X	280.79987	314.51037	337.82324	16.49764	0.1055429	0.17763971	3.1340747	21	3 19.2	18.8
136309 2004 BO_{44}	15.0	X	103.49190	51.12283	333.47200	14.35322	0.1257473	0.22474843	2.6791988	21	1 3.0	18.6
136310 2004 BB_{47}	15.3	X	112.45406	162.88455	121.36958	10.27121	0.1131031	0.21376465	2.7702064	21	12 10.2	19.7
136311 2004 BP_{47}	16.1	X	344.22722	44.71933	122.60990	1.24321	0.0763601	0.23028578	2.6360762	21	1 1.8	19.4
136312 2004 BQ_{49}	16.1	X	28.01901	173.72927	287.78717	2.26065	0.0769436	0.22753996	2.6572409	21	—	—
136313 2004 BO_{51}	15.0	X	327.36626	91.94441	139.87645	10.90168	0.0924543	0.17804283	3.1293422	21	3 12.2	19.2
136314 2004 BS_{51}	16.3	X	60.59774	287.68682	137.50548	2.83154	0.1952110	0.22811067	2.6528070	21	—	—
136315 2004 BF_{56}	16.2	X	311.75868	269.17839	151.29187	5.76563	0.1399775	0.26525642	2.3989735	21	11 3.2	18.4
136316 2004 BU_{56}	15.3	X	338.04662	152.21201	323.14737	4.11036	0.0978207	0.21906291	2.7253575	21	—	—
136317 2004 BO_{57}	15.9	X	326.31628	131.99839	229.17881	5.56663	0.2792860	0.26221385	2.4174953	21	8 8.3	17.5
136318 2004 BK_{60}	16.0	X	167.54419	189.45385	117.32614	4.20054	0.1193231	0.22586622	2.6703521	21	—	—
136319 2004 BA_{61}	16.4	X	164.37354	15.98798	311.30306	1.19693	0.0812749	0.22810141	2.6528788	21	—	—
136320 2004 BX_{61}	16.0	X	158.64101	198.77729	97.27980	4.71331	0.0774414	0.22256355	2.6967044	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136321 2004 BM_{74}	15.6	X	136.16413	108.19254	301.29391	4.37500	0.0881843	0.23520969	2.5991574	21	3 5.7	19.3
136322 2004 BP_{80}	15.9	X	98.27770	33.97577	317.17620	6.89538	0.0496095	0.22029372	2.7151967	21	—	—
136323 2004 BE_{81}	15.3	X	203.55129	273.56303	98.06483	14.52223	0.2023254	0.24383271	2.5375118	21	4 9.4	19.9
136324 2004 BY_{86}	16.2	X	13.68107	64.64728	349.40351	2.47595	0.1424665	0.27328372	2.3517629	21	—	—
136325 2004 BC_{88}	16.1	X	87.60851	305.56600	143.05340	14.22594	0.1391484	0.23535839	2.5980625	21	3 4.2	19.2
136326 2004 BS_{89}	15.8	X	73.11579	201.64117	234.33429	4.79220	0.1459476	0.22924282	2.6440655	21	1 21.8	18.8
136327 2004 BG_{94}	14.9	X	271.75388	23.82268	261.30630	8.74318	0.0520634	0.17744787	3.1363331	21	3 7.0	19.5
136328 2004 BX_{101}	15.5	X	332.40937	133.37965	311.80446	12.96397	0.0839744	0.21434444	2.7652086	21	12 30.9	19.0
136329 2004 BC_{105}	14.7	X	278.82519	121.60441	131.79582	26.03039	0.1030420	0.17461685	3.1701412	21	2 4.1	19.5
136330 2004 BM_{107}	16.9	X	280.55965	351.77714	61.31479	6.71069	0.2005633	0.26054825	2.4277871	21	8 17.3	19.8
136331 2004 BG_{108}	14.4	X	1.23747	177.23005	61.34435	5.77361	0.1736410	0.18213919	3.0822447	21	5 5.7	17.8
136332 2004 BS_{111}	15.0	X	51.02714	87.75486	4.45436	21.91958	0.0271784	0.22488038	2.6781507	21	1 7.8	19.0
136333 2004 BA_{149}	15.2	X	285.89846	315.17084	310.93137	15.26804	0.1792772	0.17760084	3.1345320	21	2 14.4	20.1
136334 2004 BX_{149}	15.3	X	210.45322	340.83011	297.69002	10.82527	0.1697459	0.22882645	2.6472720	21	—	—
136335 2004 CZ_{4}	15.3	X	341.27309	116.64290	86.90560	2.64673	0.1137664	0.17473965	3.1686558	21	2 21.4	19.3
136336 2004 CK_{12}	15.8	X	143.52345	187.45385	322.75113	3.64327	0.1009540	0.19235837	2.9720902	21	7 26.9	20.2
136337 2004 CY_{12}	16.0	X	320.81196	6.02960	129.54389	1.17932	0.0281738	0.21912640	2.7248311	21	—	—
136338 2004 CT_{14}	15.1	X	256.09274	171.45194	138.06035	12.77408	0.1203830	0.17816563	3.1279041	21	3 19.2	19.9
136339 2004 CW_{14}	14.8	X	262.14679	187.29343	139.55013	16.87790	0.1014292	0.18271699	3.0757433	21	4 19.9	19.6
136340 2004 CV_{18}	15.2	X	160.35386	296.19175	100.54493	13.49491	0.1977490	0.23837694	2.5760832	21	4 3.1	19.6
136341 2004 CO_{23}	15.7	X	136.54744	339.22262	326.53770	12.49226	0.1189813	0.21881489	2.7274165	21	—	—
136342 2004 CR_{26}	14.8	X	75.72185	11.16874	148.56047	22.75361	0.0754538	0.18304182	3.0721034	21	5 21.6	19.5
136343 2004 CO_{31}	15.8	X	334.84635	117.06764	202.80871	1.31438	0.0810115	0.19603193	2.9348427	21	7 14.9	19.5
136344 2004 CE_{33}	16.5	X	74.29846	199.17436	116.69990	4.85342	0.1462836	0.26719845	2.3873354	21	12 20.6	20.0
136345 2004 CO_{35}	15.0	X	109.27738	244.36647	141.05742	14.25072	0.1765572	0.22610198	2.6684955	21	1 16.3	18.5
136346 2004 CT_{44}	15.9	X	60.94905	215.90320	137.88997	5.90691	0.0684507	0.21673429	2.7448437	21	—	—
136347 2004 CO_{52}	15.0	X	211.30009	247.70046	143.40261	9.71004	0.0763164	0.18525573	3.0475789	21	5 13.0	19.8
136348 2004 CQ_{70}	16.1	X	178.21071	3.32684	345.32845	4.21968	0.0966118	0.23176500	2.6248479	21	2 8.3	19.9
136349 2004 CA_{71}	15.2	X	338.34703	146.98238	135.96295	12.61354	0.0689509	0.18760611	3.0220715	21	6 4.2	19.3
136350 2004 CS_{71}	14.8	X	244.39614	188.46412	110.38508	10.26328	0.0622099	0.17383903	3.1795905	21	2 27.8	19.6
136351 2004 CZ_{71}	16.2	X	170.33860	214.96993	54.37353	7.64001	0.0883743	0.27004948	2.3705029	21	—	—
136352 2004 CA_{77}	15.3	X	8.08568	357.58290	164.99542	1.45472	0.1315163	0.17270792	3.1934580	21	2 8.8	19.1
136353 2004 CC_{78}	16.0	X	202.95065	145.31113	53.05865	3.33466	0.1333265	0.26440257	2.4041355	21	11 30.2	19.5
136354 2004 CK_{78}	15.1	X	121.47550	225.74361	143.95369	12.38750	0.1662149	0.22577530	2.6710690	21	1 10.5	18.8
136355 2004 CF_{81}	15.5	X	2.24101	221.54772	161.48364	4.75809	0.0822040	0.21014042	2.8019668	21	11 23.9	18.9
136356 2004 CG_{98}	16.4	X	325.60529	6.66761	40.47995	5.83474	0.2296203	0.26756296	2.3851666	21	11 8.6	17.8
136357 2004 CX_{121}	16.3	X	138.94212	250.51709	121.39357	4.69208	0.1315282	0.22879034	2.6475506	21	1 29.1	19.9
136358 2004 DB_{3}	15.8	X	51.11251	39.11672	11.62143	3.30405	0.0875287	0.21997012	2.7178590	21	—	—
136359 2004 DS_{4}	15.2	X	135.42903	341.88428	344.83391	9.86334	0.1257118	0.21940194	2.7225492	21	—	—
136360 2004 DO_{19}	16.1	X	339.91357	26.96203	359.57990	4.22381	0.2527931	0.26494362	2.4008613	21	11 13.1	17.4
136361 2004 DP_{23}	14.9	X	75.44482	357.45288	165.08763	18.10118	0.1446450	0.18022673	3.1040109	21	6 1.1	19.4
136362 2004 DF_{27}	15.9	X	51.16452	335.90240	15.59716	4.44389	0.0786100	0.21051214	2.7986674	21	12 18.6	19.8
136363 2004 DS_{30}	15.7	X	337.05614	311.57445	123.78541	9.14648	0.1121408	0.21233325	2.7826423	21	12 24.8	18.9
136364 2004 DV_{72}	15.5	X	330.42830	183.15080	139.81095	12.69843	0.0542472	0.19500004	2.9451873	21	7 14.3	19.5
136365 2004 EZ_{2}	15.0	X	65.66243	342.25359	77.13874	16.21937	0.2699680	0.22535033	2.6744260	21	1 1.4	17.2
136366 2004 EK_{5}	14.9	X	274.67894	257.86518	158.61916	11.90606	0.1200503	0.19710998	2.9241320	21	8 18.6	18.9
136367 Gierlinger	14.6	X	178.54046	129.54128	124.55755	9.05290	0.0788162	0.15469481	3.4367838	21	12 28.2	19.9
136368 2004 EC_{15}	14.6	X	356.67940	354.57909	30.20656	15.80620	0.1378814	0.20524446	2.8463507	21	11 16.5	17.9
136369 2004 EG_{22}	16.1	X	2.33856	84.36654	132.35064	5.38898	0.1293243	0.28908027	2.2652897	21	3 23.5	18.1
136370 2004 ED_{26}	16.4	X	186.22008	147.74089	106.13647	7.57489	0.0952262	0.27107378	2.3645275	21	—	—
136371 2004 ER_{30}	14.5	X	260.94542	349.77392	351.14023	17.55422	0.1456401	0.18045150	3.1014328	21	4 17.7	19.4
136372 2004 EY_{34}	15.0	X	51.86263	352.78037	154.43391	5.62455	0.1067073	0.17390381	3.1788008	21	4 1.7	19.0
136373 2004 EN_{55}	14.5	X	53.71021	185.55900	334.87312	21.58706	0.0261002	0.17598981	3.1536322	21	3 31.4	19.2
136374 2004 EA_{59}	14.3	X	179.42484	38.80614	325.94699	18.46183	0.0723872	0.17081497	3.2170077	21	3 2.9	19.3
136375 2004 EV_{64}	14.8	X	270.60306	227.06263	100.28590	13.05897	0.0721725	0.18177741	3.0863329	21	5 3.5	19.4
136376 2004 EF_{83}	14.6	X	226.67255	328.16009	356.09240	12.37372	0.1756141	0.23301133	2.6154797	21	2 27.1	18.9
136377 2004 FV_{22}	15.7	X	281.81934	324.26601	166.92245	4.57657	0.0147005	0.21147147	2.7901969	21	12 19.4	19.5
136378 2004 FF_{24}	16.4	X	124.91765	5.23049	320.22354	1.96623	0.2087602	0.26804503	2.3823060	21	—	—
136379 2004 FY_{33}	14.3	X	260.59344	307.31089	333.08788	14.36529	0.0102961	0.17160843	3.2070838	21	2 25.9	18.7
136380 2004 FR_{36}	14.6	X	7.02336	54.52671	169.22865	6.34692	0.0561867	0.17623284	3.1507322	21	4 30.6	18.7
136381 2004 FU_{44}	14.7	X	31.97934	13.27876	152.38356	6.83919	0.1138360	0.17225542	3.1990482	21	3 26.2	18.7
136382 2004 FQ_{49}	15.6	X	39.52800	80.31616	346.42754	8.35059	0.1388780	0.21784334	2.7355198	21	—	—
136383 2004 FT_{65}	15.2	X	45.65647	64.44956	120.77642	4.15194	0.1035138	0.17621040	3.1509997	21	5 10.8	19.2
136384 2004 FS_{104}	14.8	X	279.07423	193.00619	150.44519	11.53343	0.1360888	0.18141886	3.0903981	21	5 22.8	19.4
136385 2004 FR_{148}	14.3	X	138.70337	248.02719	193.42872	20.88340	0.0767561	0.17293259	3.1906916	21	4 26.4	19.1
136386 2004 FD_{152}	16.6	X	276.60402	342.78578	326.75900	4.86045	0.1694985	0.29379650	2.2409817	21	3 17.7	19.6
136387 2004 GJ_{34}	14.9	X	92.04437	192.99123	318.19873	16.46881	0.1450763	0.18144390	3.0901137	21	6 3.9	19.6
136388 2004 GA_{37}	14.8	X	86.51241	194.67619	223.69820	13.45448	0.1959354	0.22199347	2.7013193	21	1 25.9	18.3
136389 2004 HJ_{40}	15.4	X	87.37280	199.20212	206.22059	12.19511	0.2532999	0.21942646	2.7223464	21	1 21.3	18.8
136390 2004 HA_{41}	14.8	X	123.60388	258.27520	200.40026	8.61374	0.0385883	0.17389137	3.1789525	21	4 24.8	19.4
136391 2004 JA_{25}	16.1	X	68.12884	294.98226	274.83810	3.26235	0.0199709	0.23722804	2.5843939	21	7 1.0	19.4
136392 2004 PL_{93}	16.3	X	294.87976	32.12863	255.71860	2.95809	0.1016475	0.21931220	2.7232918	21	3 29.3	20.0
136393 2004 SE_{30}	16.5	X	289.73830	312.15557	331.54691	1.71771	0.2017426	0.27224467	2.3577430	21	2 26.6	19.7
136394 2004 TB_{106}	16.4	X	291.43537	245.04468	153.70784	3.09567	0.0671142	0.22826481	2.6516126	21	8 29.7	19.7
136395 2004 TO_{212}	16.7	X	267.54838	152.94078	182.39371	2.09292	0.2330653	0.27405303	2.3473597	21	4 8.3	20.1
136396 2004 XZ_{113}	16.3	X	24.21067	175.91629	66.84063	5.35435	0.0413066	0.26946478	2.3739307	21	6 13.8	19.0
136397 2004 XB_{134}	15.5	X	249.68013	263.79683	289.91744	9.64359	0.2302667	0.23491370	2.6013402	21	12 31.1	18.9
136398 2004 XC_{158}	15.9	X	225.11472	157.67592	275.60905	0.78643	0.0489607	0.21197718	2.7857575	21	7 20.4	19.8
136399 2004 XZ_{176}	16.6	X	113.19843	141.00389	336.78856	19.16711	0.0667150	0.37582957	1.9017003	21	4 7.7	18.8
136400 2004 XW_{180}	14.5	X	317.52259	263.00621	325.57536	21.20374	0.2547534	0.17817135	3.1278371	21	1 31.9	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136401 2004 YV_{19}	15.3	X	298.55115	63.67598	118.54957	11.57403	0.0714014	0.17836514	3.1255712	21	—	—
136402 2004 YD_{20}	17.0	X	190.37930	58.69706	115.78882	3.01668	0.1446057	0.27842453	2.3227246	21	10 19.9	20.4
136403 2004 YS_{20}	16.4	X	29.00808	312.95021	282.57505	3.31189	0.1935234	0.25978022	2.4325699	21	6 26.8	18.1
136404 2005 AU_{11}	15.8	X	66.06144	278.74012	322.51849	12.49247	0.1693191	0.26801197	2.3825019	21	9 3.2	18.7
136405 2005 AV_{16}	15.5	X	339.73287	23.40737	113.01620	6.33989	0.1496500	0.17948018	3.1126125	21	—	—
136406 2005 AR_{32}	15.9	X	110.63492	286.64856	311.37325	6.20557	0.2512059	0.27217373	2.3581526	21	10 24.6	19.9
136407 2005 AR_{39}	16.5	X	116.13202	158.80211	83.77052	3.52761	0.1861268	0.27376590	2.3490007	21	11 4.5	20.1
136408 2005 AT_{53}	16.5	X	143.95092	251.36959	287.67068	4.24070	0.0996014	0.26965209	2.3728312	21	9 3.9	19.9
136409 2005 AE_{54}	16.3	X	47.94375	104.68582	99.67377	7.61717	0.0855783	0.25726677	2.4483880	21	6 1.9	19.0
136410 2005 AX_{56}	15.0	X	1.50623	92.77381	48.18940	11.07416	0.0962774	0.18354657	3.0664687	21	1 3.2	19.1
136411 2005 AL_{79}	16.4	X	158.94076	169.44102	109.19981	7.38253	0.1646915	0.28877184	2.2669024	21	—	—
136412 2005 BG_{25}	16.0	X	6.69098	27.31881	73.07875	5.85958	0.0711947	0.23868636	2.5738564	21	—	—
136413 2005 CH_{11}	16.5	X	232.85373	59.33509	124.42171	5.05851	0.1080661	0.28458936	2.2890588	21	12 25.6	19.1
136414 2005 CW_{35}	15.9	X	36.56690	244.88038	74.77766	6.91756	0.0436460	0.22024339	2.7156104	21	10 20.0	19.5
136415 2005 CE_{43}	16.3	X	352.00741	317.31808	301.56573	5.74867	0.2067667	0.25564334	2.4587426	21	4 29.5	18.4
136416 2005 CY_{43}	15.3	X	119.48592	309.13433	334.67501	13.45702	0.2884116	0.21881311	2.7274313	21	12 23.1	20.4
136417 2005 CO_{45}	16.9	X	53.90097	177.18610	113.85315	4.63821	0.1409799	0.27126107	2.3634390	21	10 27.3	19.8
136418 2005 CJ_{46}	16.8	X	91.11579	311.01446	327.98440	4.48234	0.1286699	0.27549285	2.3391738	21	11 19.8	20.2
136419 2005 CA_{48}	16.1	X	339.86145	326.98385	311.70646	4.80750	0.1709060	0.25677426	2.4515178	21	5 10.4	18.5
136420 2005 CL_{48}	16.7	X	222.68889	262.78911	324.62439	7.38699	0.0847841	0.29043544	2.2582377	21	—	—
136421 2005 CK_{49}	16.5	X	91.35844	276.45415	310.31674	1.45192	0.1552468	0.26648386	2.3916013	21	9 15.3	19.7
136422 2005 CS_{49}	16.9	X	337.68416	230.72687	316.99950	5.23956	0.0845819	0.30266504	2.1969889	21	—	—
136423 2005 CH_{50}	16.9	X	172.53300	100.83329	132.19263	4.25596	0.0807543	0.28223983	2.3017449	21	12 19.5	20.1
136424 2005 CW_{51}	16.1	X	335.85625	115.17551	164.83234	2.34989	0.1054300	0.25652679	2.4530943	21	5 16.6	18.6
136425 2005 CQ_{58}	16.6	X	152.70890	91.54772	88.47931	1.62994	0.0809287	0.27021784	2.3695181	21	9 17.6	19.8
136426 2005 CJ_{69}	16.3	X	103.54531	267.56164	311.05653	5.98858	0.0737726	0.26855468	2.3792910	21	9 7.5	19.5
136427 2005 ET_{3}	17.0	X	33.77991	152.29498	145.39191	1.62134	0.1873648	0.26952721	2.3735641	21	10 13.0	19.4
136428 2005 EK_{12}	16.5	X	122.78291	191.02660	66.75447	3.57329	0.1928323	0.27480488	2.3430763	21	11 28.4	20.3
136429 2005 EU_{13}	15.8	X	327.37736	139.18874	156.20110	14.75336	0.1459237	0.25502411	2.4627210	21	5 22.5	18.8
136430 2005 EV_{13}	17.1	X	225.28853	49.73479	136.83494	6.37519	0.0445909	0.28228653	2.3014910	21	12 28.3	19.9
136431 2005 ER_{16}	17.0	X	67.10013	137.06184	167.23743	4.73145	0.2306490	0.27139544	2.3626589	21	12 8.7	20.6
136432 Allenlunsford	16.2	X	345.80363	182.90494	118.43311	3.83231	0.1938022	0.25942369	2.4347981	21	6 29.9	18.0
136433 2005 ER_{28}	16.2	X	318.44882	169.44513	78.05366	4.76115	0.0686702	0.24519034	2.5281363	21	3 13.2	19.4
136434 2005 EA_{32}	16.1	X	22.02103	267.20583	18.84013	4.29883	0.1729877	0.26245057	2.4160414	21	9 1.5	18.3
136435 2005 EH_{32}	15.8	X	318.57486	286.51787	16.38244	8.99022	0.0920913	0.25534005	2.4606892	21	5 20.0	18.7
136436 2005 EA_{41}	15.4	X	322.93626	82.25937	109.78421	17.13320	0.0872073	0.23878017	2.5731822	21	1 1.6	18.8
136437 2005 EZ_{42}	16.0	X	284.59658	267.64288	4.31698	9.27545	0.1096463	0.24436357	2.5338355	21	2 24.0	19.6
136438 2005 EU_{45}	14.7	X	236.99516	134.86215	159.63705	12.88401	0.1263749	0.18131800	3.0915440	21	2 6.0	19.6
136439 2005 EV_{53}	16.4	X	93.89276	335.04938	355.60489	7.23066	0.1534854	0.28343184	2.2952868	21	—	—
136440 2005 EK_{56}	16.2	X	84.66130	23.11276	260.21720	1.29715	0.1983762	0.27177503	2.3604584	21	11 25.7	19.7
136441 2005 EP_{58}	17.0	X	123.49768	19.03025	226.27684	0.75235	0.1480205	0.27179944	2.3603171	21	11 11.8	20.7
136442 2005 EE_{62}	16.9	X	127.63802	0.01769	59.19181	0.58254	0.0389166	0.30740092	2.1743658	21	2 18.2	19.2
136443 2005 EN_{67}	15.3	X	165.25126	76.81024	164.41594	10.14475	0.1630832	0.21637697	2.7478648	21	12 8.5	20.0
136444 2005 EX_{84}	14.6	X	313.40729	141.39297	84.59596	12.06076	0.1916402	0.17795774	3.1303396	21	1 31.7	19.0
136445 2005 EP_{108}	15.6	X	136.98068	296.71228	305.49045	8.52249	0.1563576	0.21445352	2.7642709	21	11 11.1	20.3
136446 2005 EO_{115}	15.4	X	206.90767	65.92077	143.16744	5.38729	0.1979838	0.21850647	2.7299824	21	12 5.1	19.7
136447 2005 EN_{124}	16.9	X	322.75376	339.02345	148.79065	4.00298	0.1048741	0.28822660	2.2697604	21	—	—
136448 2005 ES_{125}	15.1	X	278.97738	331.67384	276.17505	9.10089	0.1762591	0.17568261	3.1573074	21	1 19.3	20.0
136449 2005 EA_{140}	15.0	X	91.94801	220.39489	53.68782	14.73073	0.1040095	0.21008110	2.8024942	21	11 5.7	19.1
136450 2005 EX_{141}	16.2	X	335.55619	40.32499	267.52660	4.29553	0.1373422	0.25972875	2.4328913	21	6 23.4	18.6
136451 2005 EU_{154}	16.7	X	329.89473	293.72532	39.24306	2.90423	0.1258176	0.25916167	2.4364389	21	7 24.4	19.2
136452 2005 EQ_{166}	16.8	X	17.98202	303.92326	306.80311	1.58278	0.0726137	0.25594601	2.4568038	21	6 17.7	19.3
136453 2005 EO_{173}	16.2	X	103.99934	137.45809	194.76411	6.24777	0.2126469	0.28485619	2.2876291	21	—	—
136454 2005 EF_{182}	14.3	X	281.35535	116.67298	101.39935	20.35488	0.2181327	0.17278139	3.1925527	21	—	—
136455 2005 ET_{184}	14.5	X	230.46162	284.13106	19.86543	26.93969	0.0547302	0.17612836	3.1519781	21	3 2.4	19.6
136456 2005 EO_{188}	16.1	X	210.65269	133.16419	205.75041	4.32057	0.0675628	0.23998174	2.5645859	21	2 26.2	19.8
136457 2005 EK_{202}	14.4	X	352.54803	181.71741	95.10715	25.72398	0.2256079	0.19208326	2.9749274	21	6 10.4	17.4
136458 2005 EM_{206}	16.0	X	353.00766	262.94723	300.80057	2.55906	0.1397970	0.24282100	2.5445553	21	2 20.6	18.7
136459 2005 EA_{219}	15.3	X	82.68993	245.04946	51.88918	12.04806	0.1404809	0.21068476	2.7971385	21	11 25.2	19.4
136460 2005 EJ_{224}	15.5	X	139.12189	160.90591	142.63452	12.35844	0.1793413	0.22412294	2.6841813	21	—	—
136461 2005 EO_{224}	16.1	X	340.33449	239.68397	80.75235	3.27946	0.2253115	0.25895562	2.4377312	21	7 16.7	17.6
136462 2005 EO_{227}	16.4	X	143.01107	80.27506	131.41593	9.05162	0.0438215	0.27210482	2.3585508	21	10 21.5	19.7
136463 2005 EK_{252}	16.3	X	300.56278	29.92255	334.92962	0.52171	0.2010235	0.26013256	2.4303729	21	7 5.6	18.7
136464 2005 EV_{253}	16.3	X	23.92978	302.69843	339.74351	6.64937	0.1024585	0.26419958	2.4053668	21	8 19.9	18.7
136465 2005 EA_{266}	16.3	X	198.54371	217.55001	339.32142	6.94133	0.0946937	0.27685838	2.3314759	21	11 28.3	19.6
136466 2005 EO_{271}	16.2	X	331.32022	155.47443	184.05244	6.02458	0.1761512	0.26218907	2.4176476	21	7 29.9	18.3
136467 2005 EO_{276}	15.4	X	200.15898	226.21441	89.35898	13.58990	0.1781045	0.23511927	2.5998237	21	1 23.9	19.8
136468 2005 EF_{283}	15.8	X	331.22220	163.22407	147.62534	6.66157	0.0997602	0.25735740	2.4478132	21	6 24.3	18.6
136469 2005 FM_{2}	15.3	X	105.11492	152.28925	101.70482	5.12374	0.0560167	0.20942613	2.8083343	21	10 22.3	19.4
136470 2005 FY_{6}	15.3	X	230.36927	97.49414	153.70340	13.32160	0.1601610	0.22805603	2.6532307	21	—	—
136471 2005 FJ_{7}	16.1	X	29.47846	46.43653	190.06232	6.23819	0.1166856	0.25731268	2.4480968	21	6 20.2	18.7
136472 Makemake	−0.1	X	166.62339	294.98126	79.53498	28.99424	0.1643202	0.00323094	45.3158661	21	4 9.1	17.2
136473 Bakosgáspár	15.9	X	280.86787	196.76716	140.12473	9.14797	0.1298395	0.25431328	2.4673079	21	5 12.9	19.3
136474 2005 GX_{27}	15.1	X	116.47159	322.00749	0.10469	9.83970	0.2373308	0.21726026	2.7404120	21	—	—
136475 2005 GE_{44}	16.5	X	307.18018	273.40979	332.27952	3.89697	0.1973081	0.23945710	2.5683305	21	2 3.8	20.2
136476 2005 GT_{55}	15.0	X	27.98681	311.47546	264.11383	10.70533	0.0978187	0.18917853	3.0053022	21	5 19.3	18.7
136477 2005 GB_{59}	14.5	X	254.43271	137.03030	167.88294	16.66299	0.2260336	0.17547980	3.1597396	21	2 27.9	19.7
136478 2005 GD_{63}	16.3	X	352.59477	105.29592	203.77331	1.78975	0.1931414	0.26121388	2.4236610	21	7 30.9	18.0
136479 2005 GH_{68}	16.0	X	298.49074	347.96035	26.15529	4.64880	0.1954290	0.26016021	2.4302007	21	7 18.4	18.6
136480 2005 GL_{69}	15.2	X	286.56653	325.68330	276.99747	4.15486	0.1386824	0.17569679	3.1571375	21	1 25.7	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136481 2005 GV_{75}	16.4	X	102.69102	347.38229	18.05214	5.58520	0.1455152	0.28664774	2.2780873	21	—	—
136482 2005 GV_{77}	14.6	X	297.83678	191.82551	54.49967	16.77232	0.1286587	0.17797011	3.1301946	21	2 21.0	19.4
136483 2005 GB_{79}	14.8	X	294.80417	186.86714	104.15787	19.40493	0.1523039	0.18072465	3.0983071	21	4 11.1	19.6
136484 2005 GQ_{81}	15.3	X	316.41009	69.02585	160.68268	23.97949	0.2473001	0.17483199	3.1675400	21	1 29.0	19.9
136485 2005 GU_{82}	16.6	X	351.25255	157.09463	140.10537	1.90016	0.1815674	0.25920406	2.4361733	21	7 7.4	18.3
136486 2005 GY_{95}	14.5	X	270.53015	215.90782	79.90969	28.45833	0.1238180	0.17863291	3.1224469	21	3 31.2	19.7
136487 2005 GZ_{100}	16.1	X	165.58141	132.66195	176.53290	3.43149	0.2475176	0.22419331	2.6836195	21	—	—
136488 2005 GS_{119}	14.7	X	315.36891	130.50312	153.48898	27.67217	0.1411211	0.18408601	3.0604752	21	4 27.6	19.2
136489 2005 GG_{133}	16.1	X	155.52676	156.48478	163.02684	4.23449	0.2099237	0.22353372	2.6888961	21	—	—
136490 2005 GD_{134}	17.0	X	297.19267	285.47281	166.79876	3.84358	0.0392180	0.27462041	2.3441254	21	12 1.7	19.8
136491 2005 GL_{140}	14.9	X	265.77910	174.06751	113.08118	6.85899	0.1489940	0.17509277	3.1643942	21	2 26.9	19.7
136492 2005 GS_{140}	15.6	X	306.19379	64.01724	160.06147	13.08223	0.1184488	0.23528303	2.5986172	21	1 16.3	19.3
136493 2005 GW_{141}	14.6	X	287.23724	208.90494	69.31001	23.16139	0.1026201	0.17798070	3.1300704	21	3 28.4	19.6
136494 2005 GE_{150}	15.0	X	197.57185	156.96526	195.20563	13.97757	0.2754522	0.17306886	3.1890165	21	3 9.4	20.8
136495 2005 GA_{161}	15.5	X	158.90359	313.69685	47.28211	14.63876	0.1301592	0.23538205	2.5978884	21	2 11.0	19.7
136496 2005 GZ_{180}	15.7	X	146.00196	211.97319	85.54443	3.33776	0.0538555	0.22220367	2.6996154	21	—	—
136497 2005 HG_{3}	15.2	X	297.25736	172.61308	111.94846	10.11537	0.1367250	0.17992324	3.1075005	21	4 3.3	19.7
136498 2005 JO_{20}	14.2	X	211.76780	226.03174	91.94209	18.50369	0.1415450	0.17019729	3.2247865	21	2 17.0	19.7
136499 2005 JX_{20}	15.4	X	330.01041	83.53565	145.60961	12.98274	0.0909696	0.17764973	3.1339569	21	3 12.6	19.6
136500 2005 JY_{44}	14.9	X	233.89724	154.46313	185.35024	12.76842	0.2363121	0.17586910	3.1550750	21	3 23.4	20.3
136501 2005 JO_{68}	15.1	X	311.04542	220.51089	109.25651	11.01863	0.0822287	0.19041726	2.9922544	21	6 22.4	19.1
136502 2005 JG_{132}	14.7	X	272.99523	254.34967	13.12531	13.93255	0.1808001	0.17243770	3.1967934	21	2 11.9	19.8
136503 2005 JO_{146}	15.6	X	80.94614	150.08789	140.29172	11.75840	0.1386208	0.20477713	2.8506797	21	11 18.8	20.0
136504 2005 JX_{153}	16.2	X	222.00694	242.20039	190.65500	9.92515	0.1129543	0.25555098	2.4593350	21	7 9.1	20.0
136505 2005 JX_{160}	16.4	X	137.69520	260.48983	154.34820	6.05673	0.1276453	0.23772938	2.5807592	21	3 21.9	20.0
136506 2005 KF_{1}	15.9	X	288.72974	175.98743	158.40715	6.84210	0.1481470	0.18560720	3.0437303	21	5 20.1	20.2
136507 2005 KV_{5}	15.9	X	193.17012	165.57352	332.93550	5.03425	0.0667392	0.26152953	2.4217105	21	9 7.1	19.2
136508 2005 KO_{8}	15.2	X	168.63827	204.76527	237.40670	9.46762	0.0062122	0.18626734	3.0365346	21	5 24.7	19.5
136509 2005 KC_{12}	15.1	X	287.23088	204.55046	130.06387	11.46333	0.0835025	0.18675933	3.0311995	21	5 28.9	19.5
136510 2005 LH	15.0	X	286.59012	214.73670	119.59596	12.28991	0.1114601	0.18614213	3.0378962	21	5 24.3	19.4
136511 2005 MQ_{45}	16.4	X	6.96380	326.79851	134.62015	7.54738	0.0697541	0.27427246	2.3461075	21	—	—
136512 2005 NA_{50}	15.2	X	259.59546	180.19692	163.67134	4.53674	0.1739853	0.17951249	3.1122389	21	4 25.6	20.1
136513 2005 NL_{93}	14.6	X	357.08350	323.22104	277.00547	12.55462	0.1732548	0.18241965	3.0790847	21	4 24.3	18.3
136514 2005 QT_{36}	14.9	X	321.30044	28.34454	282.52992	3.54571	0.1265520	0.17426665	3.1743869	21	6 6.7	18.8
136515 2005 QF_{37}	16.1	X	110.50851	86.36412	209.23735	3.25549	0.2213135	0.26160846	2.4212234	21	—	—
136516 2005 QR_{49}	15.6	X	168.43492	270.90093	152.95325	14.74528	0.1113569	0.22651482	2.6652522	21	5 8.1	19.9
136517 2005 SY_{20}	16.7	X	278.48389	319.47842	82.89104	3.25063	0.1517961	0.30094972	2.2053292	21	8 6.7	18.9
136518 Opitz	16.4	X	195.17891	95.36070	199.46960	9.05657	0.2681935	0.21255962	2.7806663	21	—	—
136519 2005 SZ_{242}	15.9	X	109.64760	211.17460	207.38836	5.44398	0.0322970	0.21217471	2.7840283	21	2 7.9	19.7
136520 2005 UR_{314}	16.8	X	165.49490	203.67803	161.10399	6.63568	0.1102563	0.27579331	2.3374746	21	2 7.3	20.0
136521 2006 DE_{3}	16.6	X	125.98449	308.23815	160.12395	12.11735	0.0756470	0.27163423	2.3612740	21	5 10.5	19.9
136522 2006 DA_{59}	15.4	X	140.76592	12.92948	193.49694	10.39926	0.1525747	0.21944293	2.7222101	21	10 5.6	19.7
136523 2006 DM_{195}	14.9	X	66.64097	234.26297	42.08862	6.17128	0.2758923	0.21585301	2.7523098	21	11 1.1	19.1
136524 2006 EY_{16}	16.1	X	290.03635	196.04536	123.37834	2.14032	0.1914017	0.26634024	2.3924610	21	4 18.3	19.1
136525 2006 FQ_{44}	15.7	X	233.38399	151.89480	80.14989	2.37947	0.0671316	0.24004856	2.5641099	21	—	—
136526 2006 FU_{45}	14.6	X	342.44154	269.40011	207.30633	21.65064	0.2205462	0.17883093	3.1201416	21	—	—
136527 2006 GK_{22}	16.1	X	106.63377	141.76763	150.31171	4.03079	0.1496473	0.22552945	2.6730097	21	12 16.9	20.3
136528 2006 GM_{22}	15.5	X	357.81134	235.07175	76.69572	5.09306	0.0929016	0.21023935	2.8010878	21	8 13.4	18.9
136529 2006 GH_{36}	15.2	X	127.13095	344.58795	212.66962	13.25737	0.1223432	0.21467701	2.7623520	21	9 5.0	19.6
136530 2006 GS_{37}	16.3	X	95.14696	4.01366	262.72473	5.51927	0.0882660	0.28526130	2.2854627	21	11 5.9	19.4
136531 2006 HA_{4}	16.4	X	341.23386	230.11898	178.40075	5.73669	0.0591320	0.29177321	2.2513297	21	12 12.5	18.8
136532 2006 HL_{11}	15.5	X	147.56838	214.49948	56.52907	14.86892	0.0594143	0.23065922	2.6332302	21	12 30.2	19.5
136533 2006 HX_{25}	15.4	X	288.22442	115.68398	118.14939	2.13632	0.1230083	0.18246737	3.0785479	21	1 18.4	19.8
136534 2006 KK_{16}	14.6	X	290.63067	104.90469	104.77962	22.66072	0.1034884	0.17985016	3.1083422	21	—	—
136535 2006 KA_{85}	15.6	X	294.29225	219.93307	134.23298	10.94923	0.1595005	0.25864592	2.4396768	21	6 17.9	18.6
136536 2006 LJ_{5}	15.5	X	147.79673	203.43542	116.21478	14.12118	0.1795447	0.22614849	2.6681296	21	—	—
136537 2006 LX_{6}	16.4	X	68.57873	188.69331	135.41835	8.80536	0.1899627	0.27849724	2.3223203	21	12 31.3	19.9
136538 2006 MN_{3}	15.7	X	177.39350	189.79235	117.36227	12.93970	0.1793036	0.23041826	2.6350658	21	—	—
136539 2144 P–L	16.5	X	176.06991	73.51332	324.76439	3.56033	0.3292762	0.23600386	2.5933232	21	4 14.6	21.4
136540 2543 P–L	15.4	X	112.44706	302.53314	11.51694	5.88397	0.3021739	0.21474181	2.7617963	21	—	—
136541 3012 P–L	14.5	X	321.82599	80.91167	296.65328	9.27904	0.1249545	0.19308821	2.9645962	21	9 2.9	18.3
136542 3089 P–L	15.4	X	189.43649	18.96029	338.39830	13.87160	0.2037829	0.23518313	2.5993530	21	3 4.1	19.8
136543 3111 P–L	15.1	X	281.37532	85.26414	294.74726	9.35789	0.1106806	0.19168903	2.9790049	21	7 12.9	19.2
136544 4773 P–L	16.0	X	23.89143	180.98278	224.71152	1.04559	0.0710548	0.21356605	2.7719235	21	—	—
136545 5552 P–L	16.1	X	149.81726	355.85559	23.38407	7.95443	0.1965735	0.23419748	2.6066411	21	2 27.7	20.2
136546 6208 P–L	15.9	X	326.08299	309.30446	349.40717	14.33471	0.1524162	0.25589254	2.4571460	21	5 13.4	19.0
136547 6297 P–L	15.6	X	128.02320	27.00856	359.82365	14.93568	0.0475437	0.23375449	2.6099333	21	1 27.5	19.3
136548 6329 P–L	15.3	X	168.11475	173.36849	206.70584	5.69341	0.1347542	0.17146678	3.2088498	21	3 15.5	20.5
136549 6702 P–L	16.5	X	75.63903	337.47978	6.01542	7.43081	0.1664267	0.27861406	2.3216711	21	—	—
136550 6747 P–L	16.2	X	196.86009	285.08633	7.64684	16.57532	0.2442101	0.23394547	2.6085127	21	—	—
136551 6864 P–L	16.8	X	5.42357	237.46452	145.92428	3.19643	0.1043271	0.27687375	2.3313896	21	12 16.7	19.3
136552 1047 T–2	15.1	X	247.47587	313.90370	349.06635	9.77270	0.1993859	0.17597494	3.1538098	21	2 23.8	20.3
136553 1445 T–2	14.6	X	272.46593	262.11848	356.39811	11.97252	0.1516460	0.17492247	3.1664477	21	2 1.8	19.6
136554 2062 T–2	16.2	X	216.29367	153.94615	190.33143	4.54634	0.2396188	0.23849710	2.5752179	21	3 9.5	20.6
136555 2254 T–2	15.5	X	174.61427	58.98443	9.10597	12.86731	0.1531515	0.23967974	2.5667397	21	5 11.9	19.8
136556 3299 T–2	16.6	X	173.01732	247.93188	137.49189	3.13438	0.1351380	0.29974397	2.2112393	21	3 15.2	19.7
136557 Neleus	12.6	X	319.63433	162.66913	277.79378	9.96043	0.0633387	0.08274536	5.2156321	21	11 7.1	19.3
136558 5429 T–2	14.5	X	237.06497	156.25521	218.26543	17.18620	0.1536292	0.17975630	3.1094241	21	5 11.7	19.4
136559 1035 T–3	16.6	X	259.34099	354.88366	247.61713	7.35034	0.0733221	0.30108828	2.2046525	21	—	—
136560 1109 T–3	16.3	X	192.07404	205.66874	281.33193	6.16122	0.0515608	0.26605575	2.3941661	21	8 20.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136561 1304 $T-3$	14.5	X	188.64965	83.85856	270.25059	7.73334	0.1818428	0.16968929	3.2312193	21	3 2.8	20.0
136562 2609 $T-3$	15.5	X	36.49844	70.77321	213.49021	7.47600	0.1926701	0.20061704	2.8899534	21	9 16.6	19.0
136563 3288 $T-3$	16.5	X	175.92150	164.14413	200.31114	4.21493	0.1851370	0.23572840	2.5953431	21	2 27.9	20.7
136564 1977 VA	19.1	X	52.01231	172.63060	224.46361	2.98390	0.3942053	0.38676041	1.8656981	21	—	—
136565 1977 XF_3	15.3	X	353.27584	335.67185	72.88497	17.85525	0.2193124	0.20195325	2.8771919	21	12 22.6	18.2
136566 1978 VE_4	16.8	X	135.28155	328.34012	52.48883	3.91428	0.1670621	0.28410042	2.2916844	21	2 1.1	19.7
136567 1979 OA_{11}	15.3	X	53.10827	82.43082	235.95191	7.28791	0.0952230	0.19259335	2.9696723	21	11 9.1	19.4
136568 1980 XB	14.4	X	232.85919	41.66813	70.51167	23.76030	0.3697967	0.25860841	2.4399127	21	8 30.1	19.1
136569 1981 EN_2	15.1	X	202.34688	205.33739	257.95434	8.97719	0.1350306	0.18009041	3.1055771	21	7 24.5	20.2
136570 1981 EB_3	15.4	X	120.09142	291.70678	229.02158	8.58245	0.1626747	0.17751897	3.1354957	21	7 18.2	20.4
136571 1981 EL_8	14.9	X	219.24411	101.75331	339.88801	15.93416	0.2017060	0.18086610	3.0966915	21	7 15.9	20.2
136572 1981 EA_{14}	15.8	X	56.80278	31.50800	206.59768	6.64636	0.0857509	0.25180009	2.4836981	21	8 1.8	19.0
136573 1981 EJ_{14}	15.8	X	103.37498	223.24300	319.73128	6.37310	0.0849880	0.25167192	2.4845412	21	7 23.4	19.2
136574 1981 EW_{16}	16.3	X	261.49130	349.49040	229.14756	2.63890	0.2287368	0.21553338	2.7550302	21	—	—
136575 1981 EN_{28}	16.5	X	302.76697	207.27870	354.46834	4.81390	0.1144152	0.26621893	2.3931877	21	—	—
136576 1981 EN_{33}	16.9	X	35.28795	180.24284	318.25752	3.94884	0.1425056	0.29399770	2.2399591	21	1 21.3	18.6
136577 1981 EN_{38}	14.9	X	337.25746	24.13195	197.35004	12.45416	0.0790979	0.17151164	3.2082902	21	3 11.2	19.2
136578 1981 EL_{45}	16.0	X	136.04338	264.87684	258.39681	5.35013	0.0977892	0.25270453	2.4777683	21	8 4.0	19.5
136579 1981 EC_{48}	16.1	X	8.62249	8.64914	221.09518	4.47766	0.1811426	0.22318874	2.6916662	21	5 1.9	18.5
136580 1984 WL	14.9	X	18.07565	193.64163	254.23148	25.30930	0.2807328	0.27140884	2.3625811	21	—	—
136581 1986 GX	15.7	X	291.22328	42.83149	194.15377	9.24408	0.2085467	0.22039421	2.7143713	21	1 7.6	20.0
136582 1992 BA	19.8	X	222.57921	107.35094	140.18706	10.49850	0.0678643	0.63412665	1.3417926	21	—	—
136583 1992 DL_9	15.2	X	259.25715	256.19282	179.70156	9.06131	0.1235772	0.18498346	3.0505685	21	8 21.9	19.7
136584 1992 EE_{28}	15.9	X	341.89471	130.61892	348.42123	11.42706	0.1330783	0.26424924	2.4050654	21	—	—
136585 1992 SG_{19}	14.9	X	338.53984	116.83420	331.15620	11.12976	0.2339523	0.21087983	2.7954133	21	—	—
136586 1992 UC_7	17.1	X	181.02811	97.92462	202.75573	2.44541	0.1674457	0.28554367	2.2839558	21	—	—
136587 1993 FM_4	16.9	X	259.74792	107.11082	73.63186	1.70010	0.1385189	0.26916886	2.3756703	21	—	—
136588 1993 FF_7	16.3	X	120.52095	217.11579	35.02278	4.88028	0.0853887	0.26162799	2.4211029	21	11 12.7	19.6
136589 1993 FD_8	16.9	X	287.38787	79.79305	73.47100	3.20558	0.1509851	0.26987704	2.3715125	21	—	—
136590 1993 FE_{14}	15.4	X	197.81897	30.11317	94.32156	4.86297	0.1754001	0.18775275	3.0204977	21	8 17.2	20.3
136591 1993 FN_{18}	15.1	X	127.01837	167.78756	46.04530	9.44260	0.0673492	0.18862915	3.0111347	21	9 27.6	19.6
136592 1993 FE_{19}	15.1	X	167.61723	47.69466	117.39247	6.23621	0.0787717	0.18788265	3.0191053	21	9 9.8	19.7
136593 1993 FX_{19}	14.9	X	106.33883	187.23642	45.09952	12.27598	0.0852645	0.18820369	3.0156710	21	9 30.3	19.5
136594 1993 FK_{28}	16.2	X	130.12332	5.19882	218.30297	3.51031	0.1734573	0.25935333	2.4352385	21	10 21.0	20.1
136595 1993 FH_{29}	14.9	X	125.93386	158.03988	351.99603	15.81578	0.1600285	0.18350459	3.0669364	21	7 17.0	20.0
136596 1993 FG_{30}	15.4	X	353.06654	40.35604	207.49455	10.83498	0.1969958	0.17692814	3.1424722	21	5 1.3	18.7
136597 1993 FA_{31}	15.6	X	201.31766	349.31303	111.94808	2.42427	0.1881090	0.18660680	3.0328510	21	7 21.2	20.6
136598 1993 FJ_{31}	16.7	X	189.98710	161.03876	54.48921	3.52353	0.1584984	0.26445866	2.4037955	21	12 5.9	20.2
136599 1993 FR_{37}	16.3	X	87.39667	41.68744	170.25731	2.66487	0.1290365	0.25399438	2.4693727	21	8 17.0	19.5
136600 1993 FL_{38}	16.8	X	31.57837	85.40070	47.39553	2.66841	0.1497869	0.27801670	2.3249956	21	1 9.8	18.7
136601 1993 FC_{49}	15.5	X	163.96235	190.11251	31.83389	0.77491	0.0343445	0.19381419	2.9571885	21	11 13.1	19.6
136602 1993 HT_2	16.7	X	315.35434	287.92107	158.68016	6.32551	0.1609726	0.26581716	2.3955985	21	12 18.3	18.8
136603 1993 PR_4	16.6	X	32.61188	55.36328	284.06983	3.76697	0.1734667	0.32213647	2.1075414	21	12 16.9	18.9
136604 1993 QD_1	15.4	X	197.97540	18.02135	340.02001	13.53070	0.2603107	0.23335550	2.6129074	21	3 11.7	20.1
136605 1993 SC_8	16.6	X	108.83194	204.35602	176.56721	2.46999	0.2495783	0.22431093	2.6826813	21	1 21.3	20.1
136606 1993 TD_6	16.1	X	175.85740	101.22122	226.33197	5.52653	0.2238263	0.22668139	2.6639463	21	1 18.5	20.6
136607 1993 TW_{19}	15.7	X	177.72696	291.39952	56.30631	3.89834	0.0528291	0.22797646	2.6538480	21	2 4.6	19.6
136608 1993 TF_{25}	15.9	X	118.66790	359.31091	27.59339	14.53411	0.2518347	0.22532724	2.6746087	21	2 16.9	20.0
136609 1993 TY_{30}	15.9	X	149.56324	259.72403	159.50190	2.99598	0.1653766	0.23069104	2.6329881	21	4 13.0	20.0
136610 1993 TK_{31}	16.0	X	140.03379	322.74694	72.94042	3.47078	0.0878225	0.22806889	2.6531309	21	2 25.2	19.7
136611 1993 TB_{32}	16.2	X	152.54223	311.73573	35.39414	13.70104	0.2748041	0.22608863	2.6686005	21	2 1.4	20.8
136612 1993 TW_{37}	15.8	X	62.74396	25.84328	43.82343	16.23199	0.1926071	0.22261299	2.6963052	21	1 2.9	18.8
136613 1993 TA_{38}	16.0	X	168.16522	271.27701	126.59230	4.41538	0.2171320	0.23087136	2.6316169	21	4 7.9	20.4
136614 1993 VA_6	15.9	X	271.79114	241.68256	270.40714	3.79884	0.0974614	0.21562913	2.7542145	21	12 23.4	19.1
136615 1994 AP_{10}	14.3	X	135.75332	334.55081	108.58638	10.76310	0.0901083	0.15337000	3.4565468	21	4 30.9	19.6
136616 1994 AJ_{12}	15.9	X	98.85453	284.13164	108.27588	3.79490	0.1907021	0.21872940	2.7281272	21	1 15.4	19.3
136617 1994 CC	17.7	X	259.35977	24.88336	268.54157	4.68043	0.4169577	0.47021360	1.6378442	21	1 12.3	20.5
136618 1994 CN_2	16.7	X	100.65350	248.25697	99.33694	1.43929	0.3949323	0.49954837	1.5730808	21	—	—
136619 1994 CH_{18}	16.4	X	98.41469	64.41567	30.78112	4.12704	0.2091489	0.29374929	2.2412218	21	3 30.8	18.7
136620 1994 JC	14.9	X	154.50212	138.26182	37.11403	31.25862	0.5206969	0.16135410	3.3415608	21	9 28.8	22.0
136621 1994 JD_7	15.7	X	334.86099	149.92908	178.84675	1.70933	0.2213297	0.18744883	3.0237617	21	7 14.4	18.9
136622 1994 PC_6	15.5	X	250.61590	43.19915	338.53565	4.02799	0.1680295	0.17633329	3.1495355	21	5 31.5	20.4
136623 1994 PS_6	15.2	X	232.66383	232.46462	174.80374	5.16530	0.1863312	0.17603009	3.1531510	21	6 13.8	20.4
136624 1994 PD_{14}	14.7	X	200.37270	72.96100	295.61501	3.72025	0.1502706	0.17025369	3.2240741	21	3 30.8	20.0
136625 1994 PW_{15}	16.3	X	313.69822	230.66461	166.55428	3.78764	0.2171318	0.25606879	2.4560184	21	9 19.1	18.2
136626 1994 PX_{18}	15.8	X	223.54039	2.80664	335.75116	13.78414	0.1840243	0.24293626	2.5437504	21	3 7.8	19.9
136627 1994 PM_{19}	15.6	X	266.16322	148.94361	149.00463	1.19529	0.2038921	0.17130037	3.2109276	21	3 5.2	20.7
136628 1994 PL_{21}	15.0	X	236.17771	214.16503	129.05602	1.08829	0.1524912	0.17192357	3.2031634	21	4 4.0	20.1
136629 1994 PB_{29}	16.6	X	334.00046	234.15795	107.44354	3.24361	0.2145739	0.25470623	2.4647696	21	8 7.2	18.2
136630 1994 RJ_5	15.4	X	354.81370	288.49090	316.97030	3.96264	0.1014013	0.17275079	3.1929297	21	5 5.7	19.5
136631 1994 RR_6	17.1	X	326.33338	195.33748	233.03701	1.88292	0.1671586	0.25936100	2.4351905	21	12 11.5	19.2
136632 1994 SG_5	16.4	X	182.47519	177.45161	23.50239	3.08382	0.1650608	0.26021055	2.4298872	21	11 9.3	20.2
136633 1994 SH_6	15.2	X	110.03690	123.73689	25.30293	5.02607	0.0767789	0.17188643	3.2036248	21	6 14.6	19.9
136634 1994 SE_7	15.1	X	41.27124	150.47195	43.26876	1.56781	0.1279908	0.17027259	3.2238356	21	5 16.6	18.9
136635 1994 VA_1	19.0	X	50.65266	311.01415	231.72509	7.63712	0.1749320	0.49936082	1.5734746	21	3 8.4	18.3
136636 1994 VE_4	15.8	X	195.41295	189.68988	234.51554	7.29586	0.1453091	0.24414377	2.5353560	21	5 31.1	19.8
136637 1994 WA_5	15.5	X	157.42119	145.87108	46.28419	1.83377	0.1161316	0.17937176	3.1138666	21	9 30.4	20.4
136638 1995 BE_1	15.2	X	126.72311	129.03303	315.82762	26.42749	0.3029275	0.23430635	2.6058336	21	4 21.2	20.1
136639 1995 CD_3	16.1	X	345.25943	7.16119	169.01248	3.53972	0.0173216	0.22647114	2.6655948	21	1 22.4	19.7
136640 1995 CJ_3	16.2	X	140.21583	229.75636	164.25908	4.03990	0.0946773	0.22902051	2.6457763	21	2 21.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136641 1995 CJ_6	16.4	X	221.15942	293.37300	260.98526	1.82050	0.1547660	0.21396707	2.7684589	21	12 4.4	20.4
136642 1995 DF_8	16.0	X	310.09646	257.89532	154.36558	3.24840	0.1313016	0.24631543	2.5204319	21	10 14.2	18.4
136643 1995 EV_6	16.4	X	61.54961	289.11784	159.49860	1.89757	0.0542097	0.22331040	2.6906885	21	1 14.5	19.8
136644 1995 FC_9	16.9	X	246.74854	96.43819	26.95074	12.52602	0.1184537	0.24524906	2.5277327	21	10 15.9	20.1
136645 1995 FV_{12}	15.9	X	29.82248	103.91642	7.55652	4.08375	0.0726179	0.22098899	2.7094988	21	—	—
136646 1995 FW_{14}	15.9	X	233.32438	140.51440	144.51675	4.93434	0.0865528	0.22053373	2.7132264	21	1 18.7	19.9
136647 1995 FR_{17}	16.9	X	148.59774	256.41507	61.91469	6.91217	0.1607574	0.28867143	2.2674281	21	—	—
136648 1995 GQ_2	16.4	X	216.43262	280.55044	105.48072	3.68014	0.0488279	0.23054046	2.6341345	21	5 8.8	20.0
136649 1995 GA_4	15.7	X	127.23171	214.07030	127.72404	4.43774	0.0933980	0.21576061	2.7530955	21	—	—
136650 1995 HK_2	15.9	X	101.20404	271.75723	85.79492	6.10869	0.0410926	0.21297359	2.7770618	21	—	—
136651 1995 HT_3	15.6	X	0.53335	239.91173	166.93277	4.92200	0.0720710	0.20824281	2.8189630	21	12 19.6	19.2
136652 1995 MB_1	15.4	X	19.69539	357.54776	114.52848	10.47386	0.1293547	0.21671745	2.7449860	21	—	—
136653 1995 MU_1	15.1	X	23.00641	262.71585	118.42975	10.11601	0.1438288	0.20494366	2.8491352	21	12 27.5	18.7
136654 1995 MB_2	16.7	X	57.37989	250.33112	244.53738	6.98864	0.0542528	0.29179287	2.2512286	21	2 21.4	19.3
136655 1995 MQ_7	16.3	X	288.87121	191.57163	151.49192	7.31347	0.1443967	0.26586975	2.3952826	21	5 27.9	19.4
136656 1995 OP_2	17.1	X	174.07359	75.12463	196.61542	5.40867	0.0940399	0.28093910	2.3088440	21	—	—
136657 1995 OX_4	15.8	X	266.23541	327.86240	17.32401	1.23159	0.1139012	0.18216262	3.0819804	21	5 9.5	20.2
136658 1995 OQ_6	16.8	X	26.33421	139.01939	200.10370	4.36687	0.1601311	0.27091541	2.3654489	21	11 24.9	19.4
136659 1995 OA_8	16.5	X	69.07764	144.84973	262.65198	6.04774	0.0918883	0.28220776	2.3019192	21	—	—
136660 1995 OA_{12}	16.6	X	70.03524	174.35128	121.24663	2.22483	0.1677279	0.27141647	2.3625368	21	11 23.8	19.8
136661 1995 OL_{12}	17.1	X	47.88948	181.70881	140.16485	1.98155	0.1889653	0.26972149	2.3724242	21	12 4.7	20.1
136662 1995 QZ_3	16.3	X	94.01268	354.43097	335.31531	7.43980	0.1414034	0.27477108	2.3432684	21	—	—
136663 1995 QL_5	15.4	X	139.52901	258.31475	285.71765	9.55790	0.0416552	0.19053423	2.9910296	21	8 25.8	19.8
136664 1995 QM_6	15.5	X	307.49548	53.92878	241.62286	4.88025	0.1403609	0.18304230	3.0720981	21	4 23.7	19.7
136665 1995 QB_9	15.4	X	342.04397	70.23301	175.47716	11.46972	0.0381626	0.18127645	3.0920164	21	4 24.7	19.7
136666 Seidel	16.7	X	50.96237	342.95383	74.28769	3.18599	0.2140963	0.27732694	2.3288491	21	—	—
136667 1995 SZ_7	15.5	X	145.13404	23.27230	176.75456	1.78531	0.0447901	0.19046498	2.9917546	21	9 25.8	19.8
136668 1995 ST_9	17.7	X	107.09552	153.37167	160.37631	1.42023	0.1972936	0.27592612	2.3367245	21	—	—
136669 1995 SF_{11}	16.6	X	244.19772	328.07757	183.58175	2.16868	0.0998349	0.26922238	2.3753555	21	11 25.9	19.4
136670 1995 SU_{16}	15.3	X	283.51526	329.27863	352.62063	7.48067	0.1145836	0.18073638	3.0981730	21	4 28.4	19.7
136671 1995 SN_{17}	14.8	X	287.85558	244.57153	14.64923	16.46452	0.1281492	0.17357014	3.1828735	21	2 24.6	19.6
136672 1995 SU_{18}	15.8	X	275.57726	40.34983	343.03770	0.89663	0.0746406	0.18299829	3.0725905	21	7 14.9	20.2
136673 1995 SB_{20}	17.5	X	68.53720	263.42466	28.24477	1.38948	0.1609044	0.26814990	2.3816848	21	11 14.9	20.7
136674 1995 SH_{20}	15.6	X	125.52738	116.06866	123.39047	0.81002	0.0921943	0.19097044	2.9864731	21	10 25.5	20.0
136675 1995 SA_{23}	16.9	X	282.76474	0.52035	94.03526	2.35931	0.1439976	0.26698218	2.3886244	21	10 29.1	19.3
136676 1995 ST_{24}	16.9	X	42.22983	213.84013	97.10220	1.82155	0.2146224	0.26825528	2.3810611	21	11 16.8	19.8
136677 1995 SW_{24}	16.6	X	14.67210	41.97016	21.33984	7.23844	0.0745322	0.27453905	2.3445885	21	—	—
136678 1995 SG_{25}	16.9	X	347.09520	31.61004	71.68061	2.93849	0.1367343	0.27485456	2.3427939	21	—	—
136679 1995 SK_{26}	16.1	X	246.07195	145.86955	8.26644	4.82293	0.1363983	0.26946976	2.3739015	21	11 24.5	18.9
136680 1995 SW_{27}	15.8	X	259.47975	34.75139	24.30128	1.58475	0.1788751	0.18300180	3.0725513	21	7 26.4	20.2
136681 1995 SE_{29}	16.0	X	199.35610	340.12688	21.41510	0.90277	0.1847739	0.17621389	3.1509581	21	3 23.1	21.3
136682 1995 SC_{31}	17.0	X	46.35097	288.92705	358.92414	4.74966	0.1375823	0.26748258	2.3856444	21	10 7.9	19.8
136683 1995 SG_{34}	17.5	X	88.30836	268.29732	15.29534	1.48069	0.1741269	0.27130504	2.3631837	21	11 27.2	21.0
136684 1995 SD_{35}	14.7	X	194.34390	65.46283	17.57177	17.89804	0.1349505	0.17914625	3.1164792	21	6 23.6	20.0
136685 1995 SJ_{35}	15.8	X	167.72834	83.10412	20.90829	13.60665	0.1210596	0.17831035	3.1262115	21	6 24.1	21.0
136686 1995 SQ_{35}	17.3	X	355.68049	235.70980	185.26615	3.57237	0.2014806	0.27202458	2.3590145	21	—	—
136687 1995 SH_{36}	17.5	X	140.88948	290.63939	5.41533	2.78709	0.2396964	0.27834218	2.3231827	21	—	—
136688 1995 SA_{37}	15.8	X	184.41949	31.23466	270.91125	0.90123	0.0428466	0.20551874	2.8438178	21	—	—
136689 1995 SF_{38}	17.3	X	52.02042	213.63390	198.36104	0.57173	0.1344244	0.27768503	2.3268465	21	—	—
136690 1995 SE_{41}	17.0	X	17.91081	288.30439	110.55584	2.25360	0.1910665	0.27183541	2.3601088	21	—	—
136691 1995 SC_{44}	15.2	X	222.06023	207.84307	198.74729	10.84686	0.1244696	0.17940686	3.1134605	21	6 7.3	20.2
136692 1995 SC_{45}	16.4	X	201.51393	92.77935	6.66321	0.59472	0.1321961	0.18077706	3.0977082	21	7 21.4	21.3
136693 1995 SE_{45}	17.5	X	80.20782	262.83261	18.32847	4.13124	0.1835677	0.26847247	2.3797767	21	11 15.9	21.0
136694 1995 SS_{49}	17.5	X	97.67449	240.54489	35.77156	3.41450	0.1824007	0.27082971	2.3659479	21	11 27.5	21.1
136695 1995 SP_{50}	16.6	X	7.83435	153.28916	210.14771	2.30220	0.2456864	0.26813039	2.3818004	21	12 12.7	18.7
136696 1995 SC_{52}	17.5	X	135.55875	75.86720	199.77790	0.99512	0.1765300	0.27359076	2.3500031	21	12 30.5	21.3
136697 1995 SN_{60}	16.8	X	188.53395	169.16813	35.20225	3.15560	0.1234496	0.27128940	2.3632745	21	11 24.2	20.1
136698 1995 SO_{63}	17.1	X	80.91885	119.55761	206.31487	1.33467	0.3396272	0.27393899	2.3480111	21	—	—
136699 1995 SD_{71}	14.4	X	142.98269	126.15394	17.49619	17.07737	0.1635518	0.17904743	3.1176258	21	7 27.1	19.7
136700 1995 SM_{79}	17.1	X	248.51871	291.68731	322.70425	1.23629	0.0344393	0.28462708	2.2888565	21	—	—
136701 1995 SY_{79}	15.1	X	226.71680	42.89797	348.79563	11.04726	0.1224989	0.18129983	3.0917506	21	5 20.9	20.1
136702 1995 SU_{85}	16.6	X	228.04568	16.15500	26.88369	2.06602	0.2069662	0.17928368	3.1148864	21	6 2.4	21.8
136703 1995 SJ_{88}	16.4	X	16.20029	58.05438	210.55046	4.30531	0.0882166	0.18254460	3.0776795	21	7 10.9	20.3
136704 1995 TW	15.1	X	252.58852	163.75937	244.61246	22.71461	0.1443571	0.18274427	3.0754373	21	7 4.4	20.0
136705 1995 TY_1	16.3	X	98.93684	348.53331	356.44613	4.49910	0.1748265	0.27661978	2.3328164	21	—	—
136706 1995 TT_4	16.3	X	209.01385	290.14902	206.95251	2.61432	0.1819228	0.18489154	3.0515795	21	9 8.7	21.3
136707 1995 TE_6	15.8	X	222.79136	351.62360	26.58059	10.79286	0.1370707	0.17703338	3.1412267	21	5 1.7	20.8
136708 1995 TY_7	16.0	X	86.85351	286.96589	25.81652	5.83648	0.2239031	0.27152891	2.3618846	21	—	—
136709 1995 TE_9	17.0	X	84.69841	176.77832	168.62797	6.75031	0.1841392	0.27627570	2.3347529	21	—	—
136710 1995 UU_{10}	16.8	X	66.61198	42.62126	310.35791	1.50963	0.2335269	0.27402927	2.3474954	21	—	—
136711 1995 UC_{11}	17.0	X	80.35909	33.16086	275.42218	1.10568	0.1972390	0.27198259	2.3592573	21	12 22.9	20.4
136712 1995 UE_{11}	14.9	X	247.42932	210.24963	200.41852	8.07970	0.0832189	0.18302788	3.0722594	21	7 12.1	19.5
136713 1995 US_{12}	16.4	X	48.91786	71.80223	11.97270	2.61304	0.1835153	0.27814645	2.3242725	21	—	—
136714 1995 UX_{13}	16.4	X	211.39008	141.71104	23.39859	6.64784	0.0556413	0.26711249	2.3878475	21	11 5.6	19.5
136715 1995 UO_{14}	15.0	X	150.26943	225.46587	229.18425	7.58455	0.0979641	0.17473371	3.1687277	21	5 25.5	19.9
136716 1995 UA_{15}	16.7	X	215.15374	237.03994	23.28270	7.11761	0.0841279	0.27761811	2.3272204	21	—	—
136717 1995 UM_{17}	16.4	X	70.80226	238.49751	104.30621	3.36799	0.2198345	0.27175044	2.3606008	21	—	—
136718 1995 UP_{18}	15.1	X	228.54510	68.06451	4.52885	9.02621	0.0451148	0.18316652	3.0707090	21	7 26.4	19.6
136719 1995 UT_{18}	16.6	X	321.04678	271.34694	211.50007	5.90283	0.0721110	0.27511604	2.3413092	21	—	—
136720 1995 UD_{24}	15.8	X	313.70304	327.46491	333.93959	2.37413	0.0480758	0.17730897	3.1379709	21	5 23.8	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136721 1995 UC_{25}	16.3	X	160.05353	127.25821	91.01438	4.34067	0.1710244	0.26533162	2.3985202	21	11 12.2	20.0
136722 1995 UO_{27}	15.7	X	161.72388	54.32168	25.51251	9.83917	0.0755176	0.17688058	3.1430354	21	5 15.6	20.6
136723 1995 UC_{31}	16.9	X	84.16452	149.81188	154.27295	2.63559	0.2100329	0.26942989	2.3741357	21	12 21.5	20.7
136724 1995 UK_{33}	15.2	X	225.82408	348.92899	53.62649	11.75240	0.2273029	0.17847147	3.1243296	21	5 29.1	20.4
136725 1995 UP_{40}	15.1	X	121.18372	211.36457	202.79961	7.14701	0.0392751	0.17056487	3.2201516	21	2 24.4	19.9
136726 1995 UH_{41}	15.3	X	311.87620	113.50259	205.07130	8.67146	0.0859799	0.18199286	3.0838967	21	6 8.4	19.4
136727 1995 UB_{51}	17.2	X	137.60704	52.20080	209.36312	1.93695	0.1753721	0.27178353	2.3604092	21	12 15.1	20.9
136728 1995 UW_{52}	15.1	X	189.88344	81.47536	6.80741	11.15826	0.0972559	0.18033463	3.1027727	21	6 27.5	20.1
136729 1995 UR_{57}	16.0	X	324.87116	188.38805	203.10952	4.70484	0.1730530	0.18874094	3.0099455	21	9 26.5	19.2
136730 1995 UE_{59}	16.9	X	21.78051	259.50486	84.90651	3.47686	0.2045485	0.26658833	2.3909764	21	12 1.3	19.5
136731 1995 US_{59}	17.3	X	98.52818	53.74097	226.97984	0.69055	0.1735643	0.26990241	2.3713639	21	12 3.5	20.8
136732 1995 UV_{60}	15.2	X	187.58305	359.54452	28.52531	9.81139	0.0921025	0.17494958	3.1661205	21	4 12.8	20.1
136733 1995 UE_{61}	15.0	X	140.84123	293.15554	180.41474	11.00811	0.0363182	0.17831658	3.1261386	21	6 3.3	19.7
136734 1995 VF_{6}	16.9	X	101.69880	267.79016	55.22168	6.61380	0.0623203	0.27111243	2.3643028	21	—	—
136735 1995 VP_{10}	15.3	X	304.04304	120.91225	204.77775	16.37388	0.2068325	0.18148928	3.0895987	21	5 20.0	19.5
136736 1995 VW_{10}	15.3	X	236.52907	253.62053	69.63333	6.84054	0.1443220	0.17307358	3.1889585	21	3 15.4	20.5
136737 1995 VA_{12}	16.3	X	8.91217	254.31140	104.68353	3.90649	0.1844643	0.26683152	2.3895234	21	11 27.9	18.6
136738 1995 VV_{12}	16.2	X	256.82275	78.33040	65.54392	6.79298	0.0868520	0.26837901	2.3803292	21	12 4.5	18.8
136739 1995 VD_{13}	15.3	X	42.00764	87.92096	145.26173	3.74396	0.0669095	0.17912523	3.1167231	21	7 1.8	19.4
136740 1995 VW_{14}	15.6	X	242.40109	200.53667	236.13543	4.28196	0.1318965	0.18051389	3.1007182	21	8 2.3	20.4
136741 1995 VL_{16}	16.4	X	98.44720	141.84411	224.90135	1.63923	0.2292643	0.27622466	2.3350405	21	—	—
136742 1995 VA_{17}	15.6	X	193.93451	21.78529	248.37715	1.62470	0.0173041	0.19761653	2.9191329	21	—	—
136743 Echigo	16.6	X	64.26799	162.02177	244.51032	1.25236	0.2330452	0.27526095	2.3404874	21	—	—
136744 1995 WP_{7}	16.8	X	43.42627	132.09611	271.95405	1.33842	0.2312797	0.27219596	2.3580242	21	—	—
136745 1995 WL_{8}	18.0	X	27.86216	131.53194	247.93769	17.77752	0.4837937	0.27083184	2.3659355	21	—	—
136746 1995 WJ_{17}	15.8	X	103.34889	231.93236	261.76348	3.65481	0.1338070	0.17301485	3.1896801	21	5 26.1	20.3
136747 1995 WD_{18}	15.3	X	178.67458	160.85321	246.42281	3.96691	0.1670497	0.17355164	3.1830997	21	4 27.4	20.5
136748 1995 WG_{23}	16.4	X	85.93865	265.67969	33.52571	7.05487	0.1205292	0.26952113	2.3735999	21	12 8.7	19.9
136749 1995 WM_{23}	17.2	X	235.24311	136.53150	19.25657	1.61368	0.1276380	0.26737496	2.3862846	21	11 14.1	20.1
136750 1995 YL_{5}	16.7	X	23.84443	278.78654	115.80584	2.05978	0.1658729	0.23169202	2.6253991	21	—	—
136751 1995 YN_{5}	15.4	X	188.48444	295.07420	71.25138	11.01052	0.2048857	0.17112068	3.2131751	21	3 25.9	21.0
136752 1995 YD_{11}	16.7	X	310.71514	165.84188	256.73860	4.49156	0.1927031	0.26134129	2.4228733	21	10 25.5	18.6
136753 1995 YJ_{17}	15.6	X	220.68811	9.52780	80.53829	6.27070	0.1287314	0.17920697	3.1157752	21	7 30.1	20.4
136754 1996 AA_{6}	16.6	X	114.78926	20.84231	7.44450	2.52425	0.2123231	0.27585882	2.3371045	21	1 23.2	19.3
136755 1996 AH_{10}	15.6	X	25.12643	247.87112	284.75640	6.32046	0.1507527	0.23903001	2.5713889	21	3 5.4	18.3
136756 1996 AO_{18}	16.7	X	350.55957	280.94530	97.56923	4.80345	0.2556438	0.26595026	2.3947992	21	12 1.4	18.4
136757 1996 BV_{15}	16.0	X	224.59937	16.68975	294.81769	10.90079	0.1787763	0.23787834	2.5796816	21	2 5.0	20.2
136758 1996 EC_{6}	16.0	X	131.42228	286.28040	174.08941	6.64434	0.2014857	0.24259541	2.5461325	21	5 20.4	20.0
136759 1996 FB_{2}	15.6	X	76.05299	352.54906	183.43265	25.40759	0.0960775	0.24191465	2.5509069	21	6 7.8	19.4
136760 1996 FX_{9}	16.4	X	138.39048	284.80158	196.23076	6.45423	0.1751802	0.24427369	2.5344570	21	6 19.2	20.4
136761 1996 GH_{14}	15.0	X	337.83203	297.81398	35.25671	9.60759	0.1425249	0.20538036	2.8450950	21	8 8.7	18.3
136762 1996 GC_{21}	15.5	X	274.64719	81.48143	208.91143	14.78949	0.1196536	0.23152058	2.6266950	21	3 1.7	19.6
136763 1996 HU_{4}	16.6	X	352.34892	91.10523	146.61326	4.07740	0.1669966	0.23673205	2.5880024	21	4 9.9	19.1
136764 1996 HM_{23}	15.7	X	95.36137	69.47278	132.91546	2.80532	0.1355650	0.24328132	2.5413445	21	8 14.9	19.0
136765 1996 JA	15.3	X	267.40339	191.26229	62.33998	11.50143	0.1537690	0.22949970	2.6420922	21	1 10.4	19.5
136766 1996 JD_{4}	16.1	X	131.20403	32.74090	61.89167	11.41239	0.1616222	0.23739979	2.5831473	21	5 8.9	19.9
136767 1996 JA_{9}	16.3	X	125.57609	194.31987	150.54201	7.03177	0.1051897	0.22063637	2.7123848	21	—	—
136768 1996 JY_{9}	16.3	X	131.59899	310.65380	110.27120	2.77981	0.1141831	0.23120188	2.6291083	21	3 21.9	20.0
136769 1996 OD	15.3	X	153.95735	352.27642	276.23637	12.91717	0.0995421	0.21052844	2.7985229	21	12 29.6	19.7
136770 1996 PC_{1}	20.6	X	332.86485	45.88823	326.23353	25.10245	0.4516423	0.39528790	1.8387684	21	—	—
136771 1996 PA_{2}	16.5	X	241.29502	33.22804	318.62340	5.45147	0.2273991	0.30610051	2.1805197	21	3 31.7	20.1
136772 1996 RK_{20}	16.2	X	48.70947	315.32823	118.33318	1.64048	0.0484858	0.21304128	2.7764735	21	—	—
136773 1996 TR_{6}	18.5	X	201.47975	117.64193	196.29009	22.09935	0.1801927	0.49399830	1.5848412	21	—	—
136774 1996 TC_{12}	16.4	X	119.98269	229.06745	123.57499	0.52820	0.0834953	0.21058723	2.7980021	21	—	—
136775 1996 TF_{21}	16.0	X	143.67943	358.40414	212.78667	2.94156	0.0745831	0.19461429	2.9490778	21	10 8.9	20.4
136776 1996 TB_{22}	17.4	X	147.65388	46.56174	266.21016	1.11260	0.0730886	0.28873214	2.2671102	21	—	—
136777 1996 TN_{27}	15.0	X	207.39389	263.17366	175.26855	11.07826	0.1501759	0.18718309	3.0266229	21	6 29.7	20.1
136778 1996 TN_{37}	16.1	X	342.86217	232.47765	209.21461	1.21722	0.0365246	0.20202273	2.8765321	21	—	—
136779 1996 TO_{68}	17.0	X	255.03127	324.40484	14.00917	1.07084	0.2228908	0.30524380	2.1845977	21	3 29.5	20.2
136780 1996 VV_{11}	16.0	X	330.10995	200.35289	348.44864	6.86623	0.1038879	0.29156310	2.2524112	21	—	—
136781 1996 VA_{17}	15.7	X	16.00008	355.42595	54.11206	2.85800	0.0646942	0.20204487	2.8763219	21	—	—
136782 1996 VJ_{26}	16.9	X	65.39284	131.95774	326.47255	5.96491	0.1256644	0.29301488	2.2449651	21	1 21.4	18.7
136783 1996 VR_{26}	15.8	X	235.63447	168.93323	186.83282	10.02762	0.0680791	0.18062243	3.0994759	21	4 25.1	20.5
136784 1996 WT_{1}	15.1	X	285.49062	213.58543	195.77301	0.74030	0.3339575	0.19021195	2.9944071	21	7 22.2	19.3
136785 1996 XC_{2}	16.3	X	184.35161	194.33030	74.23915	7.92978	0.0999520	0.28501270	2.2867915	21	—	—
136786 1996 XX_{4}	16.4	X	132.43271	339.70034	0.03719	5.40823	0.1504266	0.28825024	2.2696363	21	—	—
136787 1996 XG_{10}	16.4	X	163.65638	252.21315	93.20164	6.32407	0.1531202	0.29182743	2.2510509	21	1 14.3	19.5
136788 1996 XG_{11}	16.6	X	315.44794	79.90459	128.41829	3.49162	0.0523636	0.29145537	2.2529662	21	1 5.6	19.4
136789 1996 XV_{11}	15.8	X	55.32059	244.61176	93.08236	8.71174	0.1498383	0.27432489	2.3458086	21	12 29.2	19.0
136790 1996 YV_{2}	16.4	X	321.94078	177.16901	298.68227	3.24021	0.1804899	0.27827228	2.3235717	21	—	—
136791 1997 AF_{8}	15.8	X	167.78454	264.07238	270.02881	2.84835	0.2286962	0.18303195	3.0722138	21	9 16.6	21.1
136792 1997 AU_{16}	14.5	X	178.05731	330.24828	109.88080	31.33946	0.3232696	0.17888825	3.1194750	21	6 13.0	20.5
136793 1997 AQ_{18}	18.3	X	69.77317	37.01483	296.26646	17.37420	0.4654150	0.80226184	1.1470754	21	—	—
136794 1997 AS_{19}	16.4	X	178.53148	293.94570	267.14767	2.11201	0.1238510	0.26875385	2.3781154	21	11 9.1	20.0
136795 1997 BQ	18.0	X	188.65866	147.46467	50.15310	10.99058	0.4788803	0.42699707	1.7465705	21	11 7.1	20.9
136796 1997 BO_{6}	15.6	X	76.41623	44.12693	93.07480	3.80413	0.1008892	0.21166861	2.7884642	21	4 19.6	19.1
136797 1997 CF_{1}	16.5	X	187.24846	340.98245	115.28396	8.03268	0.1418911	0.29923103	2.2137656	21	7 3.4	19.8
136798 1997 CG_{2}	16.5	X	35.79296	17.17469	322.89444	1.69225	0.1337635	0.27113930	2.3641466	21	12 4.6	19.2
136799 1997 CP_{5}	17.2	X	22.07718	288.02051	143.34446	4.23907	0.1758953	0.27897195	2.3196850	21	—	—
136800 1997 CS_{13}	15.1	X	213.34529	74.18227	302.39342	6.10724	0.0570024	0.17400559	3.1775612	21	4 23.1	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136801 1997 CC_{25}	16.9	X	87.53972	238.81857	44.67185	3.17613	0.1687848	0.26738584	2.3862198	21	11 25.3	20.4
136802 1997 CB_{27}	15.8	X	191.77120	143.94877	24.72492	6.93957	0.2211026	0.26384081	2.4075468	21	10 7.0	19.7
136803 Calliemorgan	15.4	X	212.85703	173.48433	347.11886	24.98525	0.2384199	0.26833919	2.3805647	21	10 3.8	19.5
136804 1997 EQ_{5}	16.6	X	151.60811	158.79913	6.04148	2.40622	0.1083286	0.25882594	2.4385454	21	8 26.8	20.1
136805 1997 EM_{30}	17.1	X	339.90166	130.31915	175.65431	1.20544	0.1419196	0.25361636	2.4718258	21	6 28.9	19.3
136806 1997 EG_{32}	17.2	X	107.09932	80.95067	192.72350	0.55600	0.1558757	0.26387236	2.4073548	21	11 30.9	21.0
136807 1997 EQ_{38}	14.8	X	40.14897	199.36484	327.53556	1.48255	0.2523198	0.16726932	3.2623098	21	4 22.9	18.2
136808 1997 EN_{47}	16.5	X	141.63985	357.82305	200.57336	1.96867	0.1366901	0.25995296	2.4314921	21	9 29.1	20.2
136809 1997 GB_{1}	16.9	X	28.79995	234.17913	192.94634	4.68446	0.1725427	0.27652232	2.3333645	21	—	—
136810 1997 GZ_{8}	16.7	X	180.78766	204.75469	194.62187	21.28630	0.0897649	0.36929582	1.9240652	21	3 30.1	18.8
136811 1997 GG_{13}	16.2	X	289.83141	313.43121	195.56076	6.13962	0.0529224	0.27193294	2.3595445	21	—	—
136812 1997 GH_{17}	16.9	X	163.92831	299.81862	291.56102	1.69069	0.1726140	0.26532487	2.3985609	21	11 30.3	20.8
136813 1997 GM_{35}	16.5	X	268.75054	39.73391	144.93152	2.85884	0.1476716	0.27205964	2.3588119	21	—	—
136814 1997 HB_{3}	17.1	X	55.57544	38.50837	212.61176	0.75423	0.1564940	0.25500282	2.4628581	21	9 1.8	20.1
136815 1997 HL_{3}	16.4	X	262.48165	159.31822	7.41915	3.85868	0.1695970	0.27175612	2.3605679	21	—	—
136816 1997 HL_{8}	16.1	X	307.03883	31.13692	187.76062	3.36423	0.0769139	0.23858109	2.5746134	21	1 16.4	19.5
136817 1997 JR_{5}	15.5	X	238.09940	256.17772	102.74425	16.62261	0.2226897	0.24260201	2.5460863	21	4 22.6	20.1
136818 Selqet	18.9	X	332.08839	203.82970	259.93340	12.77751	0.3463158	1.08575221	0.9375237	21	—	—
136819 1997 MG_{7}	16.3	X	293.09336	50.06938	222.95979	8.96499	0.1793049	0.23639764	2.5904425	21	2 20.9	20.2
136820 1997 MF_{9}	16.0	X	65.44387	254.63050	291.62836	4.52919	0.0612018	0.24072900	2.5592759	21	5 30.3	19.1
136821 1997 NR_{3}	16.2	X	344.78273	31.77349	276.80408	3.62955	0.0894948	0.24508612	2.5288529	21	7 15.9	18.7
136822 1997 PW_{4}	14.2	X	4.06733	172.61512	155.19953	3.33663	0.1354298	0.12373143	3.9885590	21	9 6.4	19.0
136823 1997 QR	16.1	X	197.44518	112.39985	280.70683	4.38954	0.2738405	0.23275793	2.6173777	21	4 21.9	20.9
136824 Nonamikeiko	15.5	X	100.25261	49.39214	322.06928	3.96287	0.1735627	0.22020364	2.7159372	21	—	—
136825 Slawitschek	15.7	X	219.21459	273.76050	114.98250	4.78998	0.2586990	0.23567600	2.5957278	21	5 6.2	20.2
136826 1997 SM_{4}	15.7	X	166.74941	92.58761	216.77197	7.77077	0.2727581	0.22217664	2.6998344	21	—	—
136827 1997 SC_{23}	16.2	X	188.00176	226.42416	288.95576	1.35062	0.1180742	0.24290017	2.5440024	21	9 18.9	20.1
136828 1997 ST_{23}	16.4	X	166.94648	333.44387	12.03496	2.24022	0.0773626	0.22262979	2.6961695	21	1 23.1	20.3
136829 1997 SL_{32}	15.6	X	14.09209	34.18303	18.77994	3.67629	0.1179896	0.21240077	2.7820526	21	—	—
136830 1997 SM_{34}	15.8	X	11.93041	184.51088	358.95103	9.54633	0.0582791	0.22763031	2.6565377	21	3 8.2	18.9
136831 1997 TA_{1}	15.7	X	191.20586	199.46368	180.44268	3.34796	0.2630077	0.23259853	2.6185733	21	4 3.9	20.4
136832 1997 TH_{27}	15.7	X	61.31376	335.56234	45.44443	5.33056	0.1305986	0.21333499	2.7739246	21	—	—
136833 1997 UP	16.7	X	9.37038	193.38360	193.01585	6.69237	0.1407788	0.29238117	2.2482078	21	—	—
136834 1997 UD_{1}	15.7	X	218.33620	148.87241	269.46375	8.53743	0.0936477	0.23556919	2.5965124	21	6 18.6	19.4
136835 1997 UL_{19}	14.6	X	291.52227	36.46494	106.50001	3.45767	0.0856573	0.12622085	3.9359416	21	12 19.9	19.9
136836 1997 VO_{5}	15.0	X	186.85931	272.03177	64.64488	13.21367	0.2844662	0.22325640	2.6911223	21	2 15.7	20.1
136837 1997 VV_{7}	15.2	X	169.35807	290.96596	46.27469	12.86741	0.1611941	0.22025682	2.7155000	21	1 25.8	19.7
136838 1997 WG_{22}	14.8	X	145.64487	203.09884	50.14164	16.10182	0.1014915	0.20621741	2.8373909	21	11 30.9	19.3
136839 1997 WT_{22}	18.7	X	320.66038	74.80647	71.93355	8.15843	0.3061292	0.54447432	1.4853123	21	—	—
136840 1997 WN_{28}	15.0	X	113.00231	142.13343	234.84417	24.88654	0.1399686	0.21828222	2.7318519	21	1 1.8	19.0
136841 1997 WU_{50}	15.3	X	91.77329	304.18204	68.20929	11.27877	0.3745183	0.21652777	2.7465888	21	1 9.9	18.5
136842 1997 XN_{9}	15.2	X	135.84381	22.87500	80.44709	22.83645	0.0521308	0.22823807	2.6518197	21	5 18.3	19.1
136843 1997 YX_{5}	15.1	X	302.98041	156.84995	292.35102	7.25818	0.1807608	0.20131280	2.8832909	21	11 3.5	18.4
136844 1997 YA_{11}	16.0	X	91.31890	330.17303	118.25697	4.27460	0.2857279	0.21890670	2.7266539	21	4 4.2	19.6
136845 1997 YU_{14}	16.3	X	118.33100	162.23273	296.52995	1.21176	0.1872024	0.22281259	2.6946947	21	5 2.3	20.3
136846 1997 YV_{14}	16.6	X	350.35784	268.30810	301.28105	2.29994	0.0948187	0.30276703	2.1964956	21	2 17.5	18.6
136847 1998 BC_{4}	15.3	X	212.40966	22.78599	96.64155	3.22533	0.1937753	0.19098776	2.9862926	21	8 22.9	20.3
136848 1998 BF_{44}	15.3	X	24.94097	18.21870	98.90275	9.52963	0.2869427	0.21235478	2.7824542	21	—	—
136849 1998 CS_{1}	17.6	X	275.42848	97.65933	110.78108	7.79001	0.5782003	0.54111113	1.4914604	21	—	—
136850 1998 DX_{2}	15.0	X	52.57074	58.24441	39.76455	10.01612	0.2694099	0.21270533	2.7793963	21	2 7.2	17.5
136851 1998 DY_{8}	15.8	X	113.38731	244.13969	26.90254	1.97888	0.0723151	0.19523305	2.9428434	21	11 18.2	20.2
136852 1998 DQ_{18}	16.6	X	314.49527	333.39884	138.79017	3.83775	0.0620795	0.28577517	2.2827222	21	—	—
136853 1998 DM_{19}	17.3	X	309.04923	150.53549	12.26410	2.89410	0.1406763	0.29008974	2.2600314	21	—	—
136854 1998 DM_{28}	16.6	X	77.57142	304.69169	150.22759	5.99726	0.0632791	0.29655128	2.2270819	21	1 29.7	18.8
136855 1998 EE_{5}	15.1	X	247.29998	331.70686	329.01028	4.93897	0.1449221	0.17279307	3.1924088	21	2 23.5	20.2
136856 1998 FA_{6}	15.3	X	191.33384	155.52465	15.84738	11.39331	0.0772859	0.19066346	2.9896779	21	10 10.5	19.8
136857 1998 FD_{7}	15.6	X	170.26478	142.97795	15.09782	2.09075	0.1412512	0.18795521	3.0183283	21	9 2.2	20.5
136858 1998 FW_{10}	17.0	X	24.74250	149.58910	333.84969	2.34566	0.1080927	0.29313620	2.2443457	21	—	—
136859 1998 FS_{32}	16.3	X	49.07466	162.47901	353.04358	6.03710	0.0749526	0.29988658	2.2105382	21	3 13.8	18.4
136860 1998 FQ_{34}	15.6	X	57.53920	194.19138	347.11761	7.20208	0.1831647	0.21872051	2.7282011	21	5 29.5	18.8
136861 1998 FJ_{39}	16.5	X	177.72236	44.38922	158.52108	3.49357	0.1199046	0.27763260	2.3271394	21	11 13.7	19.8
136862 1998 FW_{40}	16.2	X	155.72762	182.46993	18.54149	5.81132	0.1656359	0.27426170	2.3461689	21	10 17.4	19.8
136863 1998 FA_{41}	16.4	X	242.24456	14.62435	178.13555	4.67253	0.0852505	0.28387759	2.2928834	21	—	—
136864 1998 FB_{41}	16.3	X	164.76518	72.88255	177.75418	4.70530	0.2886566	0.27840882	2.3228120	21	12 21.3	20.5
136865 1998 FE_{41}	16.2	X	135.27006	299.60356	171.87252	3.18596	0.0380348	0.30467686	2.1873070	21	5 17.2	18.6
136866 1998 FB_{46}	15.3	X	136.46328	111.00442	23.27641	5.88611	0.1511991	0.18088352	3.0964926	21	7 3.4	20.3
136867 1998 FW_{48}	15.4	X	96.56446	42.53982	208.69811	4.15941	0.1724010	0.18749075	3.0233110	21	10 16.5	20.0
136868 1998 FC_{49}	15.2	X	30.44544	213.51620	353.25351	8.11773	0.1539208	0.21740227	2.7392185	21	5 10.4	18.2
136869 1998 FB_{55}	16.7	X	188.74439	250.78860	12.28634	5.72143	0.1454739	0.28350617	2.2948856	21	—	—
136870 1998 FC_{55}	16.6	X	304.45640	139.65724	120.76613	0.65222	0.1351369	0.29692064	2.2252346	21	2 18.1	19.2
136871 1998 FO_{57}	16.0	X	8.16093	182.59393	353.54960	7.21926	0.1820416	0.29654644	2.2271061	21	1 20.7	17.9
136872 1998 FZ_{66}	16.3	X	105.97947	133.02443	132.43648	2.94870	0.2003482	0.27299538	2.3534186	21	11 24.1	20.0
136873 1998 FY_{68}	15.5	X	127.85156	299.61359	220.91785	3.97148	0.1744296	0.18068015	3.0988158	21	7 27.4	20.4
136874 1998 FH_{74}	15.6	X	92.93156	193.38501	197.52983	21.14585	0.8839838	0.30143890	2.2029426	21	4 1.0	19.6
136875 1998 FV_{76}	15.5	X	110.08064	84.35053	100.17754	3.62299	0.2048413	0.18045677	3.1013725	21	8 13.7	20.5
136876 1998 FM_{93}	15.1	X	255.74142	39.97899	110.13686	10.41855	0.0630236	0.19703173	2.9249061	21	12 2.1	19.2
136877 1998 FB_{102}	14.5	X	62.46791	201.52129	350.38526	18.94021	0.1290242	0.17706509	3.1408516	21	6 14.9	19.1
136878 1998 FD_{122}	16.9	X	220.72665	52.08450	128.62835	0.87382	0.1501760	0.27953421	2.3165734	21	11 28.5	19.9
136879 1998 FH_{124}	15.4	X	139.20372	117.37466	81.44281	3.70073	0.1557003	0.18776261	3.0203920	21	9 24.6	20.2
136880 1998 FR_{130}	16.7	X	126.53018	41.62489	184.20163	1.89774	0.1588798	0.27263261	2.3555058	21	10 22.0	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136881 1998 FL_{133}	16.7	X	5.48221	204.14332	27.33816	3.16017	0.1403970	0.30212088	2.1996262	21	4 17.2	18.0
136882 1998 FE_{134}	15.1	X	94.12093	66.28227	126.42063	1.72266	0.1366350	0.17936804	3.1139096	21	7 29.3	19.6
136883 1998 FB_{147}	16.0	X	211.63634	66.27782	210.28699	5.08275	0.1710475	0.28570078	2.2831184	21	—	—
136884 1998 FC_{148}	14.8	X	162.09922	305.55020	167.20043	13.93160	0.0309064	0.18165067	3.0877683	21	6 26.1	19.5
136885 1998 GO_{2}	15.9	X	157.56694	104.74515	100.61056	9.06848	0.1826372	0.27524729	2.3405649	21	10 28.8	19.8
136886 1998 GL_{12}	15.6	X	167.76188	109.59347	78.96628	2.53189	0.1137236	0.19063078	2.9900196	21	10 7.5	20.3
136887 1998 HQ_{9}	14.6	X	24.40985	192.20223	86.14996	14.21883	0.0855214	0.17890294	3.1193043	21	8 9.9	18.8
136888 1998 HR_{10}	16.8	X	307.99271	164.48206	69.80065	2.69263	0.1692943	0.29399596	2.2399680	21	1 14.6	19.9
136889 1998 HR_{17}	14.6	X	158.32298	139.09433	351.12877	10.74960	0.1691335	0.18176580	3.0864644	21	7 21.9	19.8
136890 1998 HO_{20}	14.9	X	162.68773	133.58042	25.45692	10.39154	0.2918046	0.18567954	3.0429397	21	9 1.6	20.5
136891 1998 HK_{23}	16.0	X	303.06711	210.53775	51.09109	3.84661	0.1535209	0.29613580	2.2291644	21	2 17.4	18.8
136892 1998 HD_{24}	16.6	X	51.19648	271.93504	187.86437	5.98634	0.0384779	0.28912597	2.2650510	21	—	—
136893 1998 HK_{25}	16.2	X	233.01752	25.18198	85.22308	3.62233	0.1256798	0.18826124	3.0150564	21	9 7.6	20.7
136894 1998 HC_{35}	16.9	X	307.99218	143.76931	66.43725	5.17226	0.1647552	0.29179207	2.2512327	21	—	—
136895 1998 HP_{38}	14.3	X	239.66805	58.67512	21.26062	19.17412	0.1100218	0.18435104	3.0575412	21	8 17.1	19.2
136896 1998 HO_{39}	14.3	X	158.77168	104.77729	26.81715	13.57819	0.1331084	0.18115783	3.0933660	21	7 23.9	19.5
136897 1998 HJ_{41}	18.5	X	111.73732	120.09378	211.86165	38.87604	0.1247505	0.61912760	1.3633769	21	—	—
136898 1998 HM_{43}	15.0	X	192.38781	338.15829	180.43356	10.55950	0.1255027	0.18839357	3.0136443	21	9 23.4	19.5
136899 1998 HH_{44}	16.2	X	97.40357	188.48829	35.14635	6.54973	0.1950331	0.26781273	2.3836834	21	9 25.1	19.7
136900 1998 HL_{49}	17.2	X	96.09267	239.25781	205.96992	10.98192	0.6364038	0.42691466	1.7467952	21	5 7.7	19.2
136901 1998 HT_{49}	16.1	X	86.64475	211.75670	105.50515	10.19673	0.2581213	0.27270935	2.3550639	21	—	—
136902 1998 HL_{55}	15.1	X	146.72590	129.69496	28.73221	12.27854	0.1706128	0.18201027	3.0837000	21	8 17.6	20.3
136903 1998 HR_{58}	17.4	X	80.52664	147.20473	110.80749	0.96546	0.2622210	0.26818860	2.3814557	21	10 27.4	21.0
136904 1998 HY_{59}	14.8	X	306.81659	229.63938	35.21456	16.51512	0.1061987	0.16939050	3.2350179	21	3 28.7	19.4
136905 1998 HF_{78}	14.5	X	141.43910	233.45360	218.40083	21.08617	0.1315708	0.17413088	3.1760368	21	5 15.8	19.5
136906 1998 HX_{83}	16.8	X	189.69701	193.40338	83.29202	3.85358	0.2495499	0.28189369	2.3036287	21	—	—
136907 1998 HS_{86}	16.5	X	112.28091	66.56955	224.49177	8.75463	0.2505692	0.27404619	2.3473988	21	12 30.4	20.7
136908 1998 HV_{92}	16.9	X	251.08840	216.45608	33.11679	3.86198	0.1248562	0.28759426	2.2730862	21	—	—
136909 1998 HJ_{93}	16.1	X	112.16363	34.02701	238.98188	5.80176	0.1005551	0.27389986	2.3482348	21	12 3.7	19.3
136910 1998 HN_{93}	16.6	X	240.93907	8.84314	244.54593	6.02101	0.0776451	0.28703719	2.2760263	21	—	—
136911 1998 HQ_{95}	16.6	X	209.76948	15.06458	192.58703	6.04491	0.0861786	0.27898559	2.3196095	21	12 28.8	19.7
136912 1998 HP_{96}	16.6	X	124.53339	180.09438	83.12219	3.67285	0.2076619	0.27338545	2.3511795	21	12 6.7	20.4
136913 1998 HB_{100}	16.6	X	323.27747	166.52883	65.58539	8.40843	0.1598187	0.29429601	2.2384452	21	2 3.5	19.4
136914 1998 HA_{103}	14.2	X	151.46722	275.63797	222.13227	9.12169	0.2786405	0.17969279	3.1101568	21	7 23.7	19.9
136915 1998 HM_{109}	14.4	X	154.39027	96.53696	55.92876	22.96642	0.1483674	0.18254670	3.0776559	21	8 21.2	19.8
136916 1998 HW_{115}	14.9	X	162.85449	14.43278	153.08347	10.17613	0.1088662	0.18421439	3.0590531	21	9 6.3	19.6
136917 1998 HB_{127}	16.5	X	167.88110	253.93212	357.59949	7.01688	0.1070514	0.27968914	2.3157179	21	—	—
136918 1998 HT_{133}	16.0	X	87.03413	203.58701	75.66657	5.52020	0.2227741	0.27188503	2.3598217	21	11 25.4	19.6
136919 1998 HZ_{138}	14.3	X	163.15628	54.12504	49.72819	16.81346	0.1923463	0.18027894	3.1034116	21	6 20.5	19.7
136920 1998 HN_{145}	14.5	X	92.26794	97.34640	55.99755	16.87157	0.0691815	0.17406858	3.1767946	21	5 27.1	18.9
136921 1998 HV_{147}	16.3	X	149.20695	225.76540	49.01014	25.64717	0.1923230	0.27742122	2.3283214	21	—	—
136922 Brianbauer	15.8	X	41.12521	95.82898	238.21667	5.16723	0.2534318	0.27004731	2.3705155	21	12 21.0	19.0
136923 1998 JH_{2}	16.2	X	64.64311	287.28405	51.10332	6.62499	0.4414577	0.31601634	2.1346648	21	—	—
136924 1998 KX_{5}	16.2	X	107.84119	52.27364	256.94904	3.57781	0.1909681	0.27623767	2.3349672	21	—	—
136925 1998 ME	15.5	X	171.04602	272.87355	224.11520	14.72173	0.1975839	0.18030828	3.1030750	21	8 2.6	21.1
136926 1998 MY	16.1	X	25.54049	91.12115	220.00922	7.82235	0.3437280	0.26295912	2.4129254	21	11 13.9	18.6
136927 1998 MA_{3}	16.5	X	78.24856	265.01590	100.91607	7.23031	0.1538803	0.27814353	2.3242887	21	—	—
136928 1998 MO_{15}	16.5	X	186.02240	17.38388	80.09075	5.34427	0.0992188	0.30415286	2.1898185	21	7 4.5	19.6
136929 1998 MA_{16}	16.4	X	336.31825	112.89551	236.15348	4.08304	0.2097525	0.26279601	2.4139237	21	8 24.6	18.0
136930 1998 OT_{3}	16.1	X	169.81335	63.14339	281.36483	5.75585	0.1719642	0.28101728	2.3084158	21	1 22.3	19.5
136931 1998 OE_{6}	15.8	X	127.26679	39.35465	294.42024	4.62945	0.2188633	0.27484344	2.3428571	21	—	—
136932 1998 OB_{7}	15.9	X	19.38889	10.30906	292.79827	6.13877	0.2771973	0.25886955	2.4382715	21	10 4.7	18.1
136933 1998 QX_{4}	15.6	X	46.26459	145.42584	240.56012	5.60672	0.1359451	0.26907666	2.3762130	21	—	—
136934 1998 QP_{5}	16.4	X	167.51135	124.78523	313.13729	18.59149	0.0975075	0.37537284	1.9032426	21	5 1.8	19.2
136935 1998 QK_{6}	13.8	X	341.60531	144.76249	205.52070	6.34367	0.1793998	0.12284076	4.0078154	21	8 23.9	18.7
136936 1998 QO_{20}	16.6	X	348.57105	153.35326	182.39582	3.41908	0.2221006	0.25749291	2.4469543	21	9 5.5	18.0
136937 1998 QT_{28}	16.4	X	42.90458	20.87234	265.73698	4.89576	0.0999409	0.25910144	2.4368165	21	9 21.6	19.4
136938 1998 QA_{37}	16.8	X	352.10205	118.41579	192.77058	6.57175	0.2843481	0.25584455	2.4574533	21	7 30.4	18.1
136939 1998 QV_{43}	15.9	X	17.94961	322.85339	62.88794	3.29901	0.2259297	0.26459242	2.4029853	21	—	—
136940 1998 QG_{45}	16.0	X	32.41091	133.01832	240.44725	3.68301	0.2064324	0.26513217	2.3997229	21	—	—
136941 1998 QT_{57}	17.0	X	289.01484	180.62837	210.19041	0.55646	0.1909282	0.25373999	2.4710229	21	7 26.7	19.7
136942 1998 QK_{70}	15.5	X	313.60116	161.06506	243.90154	12.79373	0.2207016	0.25825719	2.4421243	21	9 24.3	17.8
136943 1998 QH_{73}	16.4	X	33.26375	88.29494	207.43889	7.50768	0.2887070	0.25966568	2.4332852	21	10 24.8	18.9
136944 1998 QK_{81}	16.1	X	292.11350	119.80371	239.19730	11.97047	0.1838609	0.25292084	2.4763554	21	6 16.2	19.1
136945 1998 QD_{86}	15.4	X	321.25644	166.52198	244.09651	11.91379	0.2347641	0.25901366	2.4373671	21	10 27.7	17.1
136946 1998 QY_{99}	16.7	X	81.84000	265.72940	29.71730	2.76535	0.2085617	0.26445789	2.4038002	21	12 7.7	20.4
136947 1998 QS_{100}	16.0	X	39.58947	305.10891	70.44300	3.33485	0.2219224	0.26575295	2.3959844	21	—	—
136948 1998 QO_{106}	16.2	X	25.84960	315.21304	23.52560	6.28773	0.1318534	0.26136625	2.4227190	21	11 15.0	18.9
136949 1998 QE_{110}	16.2	X	284.80369	270.17219	109.00436	3.49585	0.2186212	0.25370155	2.4712725	21	6 29.1	19.2
136950 1998 RT_{1}	15.2	X	21.94386	262.19732	325.88419	13.19343	0.0212479	0.24594379	2.5229703	21	5 15.7	18.8
136951 1998 RQ_{3}	17.0	X	148.73025	92.39707	343.10528	17.74514	0.1220090	0.37218686	1.9140886	21	4 6.5	19.4
136952 1998 RY_{3}	15.8	X	240.02284	347.51495	3.84432	13.50972	0.2231467	0.24488569	2.5302326	21	4 4.6	20.1
136953 1998 RP_{4}	16.7	X	103.13459	253.79134	182.89570	22.33332	0.0737214	0.36637974	1.9342610	21	1 24.4	19.0
136954 1998 RX_{4}	16.6	X	130.81918	221.68447	184.77839	21.51501	0.0888461	0.36599575	1.9356137	21	1 26.0	18.9
136955 1998 RJ_{5}	15.7	X	106.99540	205.22357	41.29316	9.17189	0.1788218	0.26073934	2.4266008	21	10 29.6	19.5
136956 1998 RV_{6}	16.8	X	69.64733	295.55731	349.09726	4.79893	0.1724584	0.26251874	2.4156231	21	11 6.2	20.2
136957 1998 RQ_{8}	16.2	X	325.47922	19.52858	339.59746	3.13272	0.1298285	0.25786141	2.4446226	21	8 24.8	18.3
136958 1998 RN_{9}	16.6	X	63.34072	249.48288	356.02278	0.84371	0.1433654	0.25699429	2.4501184	21	9 3.6	19.4
136959 1998 RJ_{15}	16.2	X	117.65750	94.51798	179.13759	2.10818	0.1338214	0.26570417	2.3962777	21	12 10.3	19.9
136960 1998 RD_{27}	16.2	X	62.69741	122.54657	181.37630	7.21156	0.1086055	0.26274057	2.4142633	21	11 17.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136961 1998 RP_{29}	16.3	X	53.77497	308.57096	85.90215	2.39961	0.1848394	0.26962116	2.3730127	21	—	—
136962 1998 RV_{30}	16.7	X	339.81780	130.92333	258.12792	1.68256	0.1967956	0.26013753	2.4303419	21	11 11.8	18.6
136963 1998 RR_{31}	15.9	X	317.74507	159.31350	230.15686	5.66617	0.1222761	0.25784143	2.4447488	21	9 23.4	18.3
136964 1998 RG_{36}	16.4	X	150.46800	91.08131	322.99414	6.13412	0.0916702	0.28398307	2.2923156	21	3 22.1	19.5
136965 1998 RA_{38}	16.0	X	221.14907	107.26518	286.46307	1.59803	0.1111982	0.24690263	2.5164341	21	5 18.3	19.6
136966 1998 RL_{39}	16.3	X	76.30503	235.90495	133.74709	3.41372	0.1860861	0.26995949	2.3710297	21	—	—
136967 1998 RQ_{39}	15.8	X	297.59066	301.84789	77.61051	3.22139	0.1951072	0.25423516	2.4678134	21	7 24.1	18.6
136968 1998 RY_{40}	16.1	X	212.25042	190.63584	156.68122	10.47783	0.2273995	0.24117296	2.5561342	21	3 11.7	20.5
136969 1998 RG_{41}	15.8	X	25.87415	340.47691	337.49270	6.25311	0.1385336	0.25925806	2.4358350	21	10 15.9	18.5
136970 1998 RS_{44}	16.1	X	133.76219	260.11220	145.46753	7.17212	0.1547086	0.28018060	2.3130091	21	3 2.6	19.1
136971 1998 RA_{48}	16.2	X	347.57083	53.44563	314.97369	4.25051	0.1160320	0.25890296	2.4380618	21	10 19.4	18.7
136972 1998 RA_{49}	16.9	X	234.29865	157.77441	181.73929	6.15697	0.2575152	0.24312536	2.5424312	21	3 16.9	21.5
136973 1998 RM_{50}	16.3	X	350.82833	339.05215	7.93545	3.26796	0.2024509	0.25761591	2.4461754	21	9 30.8	18.1
136974 1998 RO_{50}	16.4	X	56.15823	1.10637	25.38760	1.54792	0.1936064	0.26859096	2.3790768	21	—	—
136975 1998 RS_{51}	16.6	X	9.78109	306.95207	30.45989	5.44450	0.1646010	0.25928012	2.4356969	21	10 23.0	18.6
136976 1998 RA_{61}	15.1	X	197.96246	328.90459	347.76179	11.04867	0.1154585	0.19180426	2.9778116	21	1 29.5	19.9
136977 1998 RM_{61}	16.1	X	343.84602	111.61123	196.68050	6.71888	0.1994172	0.25306729	2.4753999	21	7 5.4	18.1
136978 1998 RH_{65}	16.3	X	249.78771	17.06641	348.39713	1.08459	0.1717280	0.24670087	2.5178060	21	5 6.7	19.9
136979 1998 RX_{76}	16.2	X	354.22294	289.84251	134.27812	5.58630	0.1809475	0.26407024	2.4061521	21	—	—
136980 1998 SR	16.3	X	192.92170	65.67726	24.66782	2.66806	0.1238252	0.24645216	2.5194996	21	7 2.1	20.2
136981 1998 SF_{3}	16.3	X	12.85618	278.58576	39.82621	6.99036	0.1538678	0.25709589	2.4494729	21	10 1.1	18.7
136982 1998 SK_{3}	16.0	X	224.80569	139.90319	68.48989	6.08249	0.1766799	0.26919027	2.3755443	21	—	—
136983 1998 SN_{4}	15.9	X	84.22139	281.47476	56.64070	2.15660	0.1977408	0.26745373	2.3858160	21	—	—
136984 1998 SW_{10}	16.0	X	215.08823	152.58757	183.22305	12.44631	0.2969315	0.23837738	2.5760801	21	2 25.3	20.7
136985 1998 SD_{12}	15.8	X	220.83087	174.90725	200.52050	18.72958	0.2151380	0.24257899	2.5462474	21	4 21.4	20.1
136986 1998 SX_{15}	17.0	X	308.80952	97.05884	178.62096	4.36815	0.1219569	0.24548566	2.5261083	21	3 26.9	20.3
136987 1998 SV_{20}	16.6	X	197.21539	181.05395	194.87212	3.75665	0.0965052	0.24094291	2.5577609	21	3 31.9	20.4
136988 1998 SO_{33}	16.7	X	203.25899	16.45850	6.57981	20.62539	0.1078416	0.37307109	1.9110629	21	4 1.7	19.0
136989 1998 SX_{33}	16.6	X	244.22290	298.87671	8.27880	21.37321	0.0967560	0.37032154	1.9205107	21	2 13.9	19.4
136990 1998 SW_{34}	16.7	X	358.85874	214.06397	14.21180	19.85987	0.0624269	0.37280299	1.9119790	21	3 28.1	17.9
136991 1998 SA_{36}	16.4	X	258.25060	316.51493	25.59337	3.60567	0.1862872	0.24455509	2.5325124	21	4 14.5	20.4
136992 1998 SL_{45}	15.5	X	97.66900	158.53930	17.10652	5.74433	0.0570861	0.24816073	2.5079219	21	6 30.9	18.8
136993 1998 ST_{49}	17.7	X	163.68756	48.07893	18.20874	24.48623	0.5953353	0.28110689	2.3079252	21	5 9.9	23.1
136994 1998 SX_{56}	15.6	X	30.65941	26.30477	24.08887	3.05198	0.2441024	0.26700176	2.3885077	21	—	—
136995 1998 SD_{57}	16.4	X	357.58423	183.01435	127.50437	2.21176	0.1900350	0.25515954	2.4618495	21	8 16.1	18.0
136996 1998 SJ_{63}	15.1	X	303.81798	97.08952	296.95017	3.51087	0.3246174	0.25408102	2.4688113	21	8 1.3	17.5
136997 1998 SP_{72}	16.0	X	344.58087	315.09184	70.34715	2.26791	0.1964834	0.25844485	2.4409420	21	11 17.3	17.8
136998 1998 SG_{75}	16.3	X	250.43142	244.52071	127.97767	3.49866	0.1705122	0.24626955	2.5207449	21	5 18.1	20.0
136999 1998 SG_{76}	16.3	X	311.86416	42.50724	299.62236	6.15998	0.1731647	0.25302995	2.4756435	21	6 26.2	18.8
137000 1998 SH_{78}	16.3	X	8.96422	55.62904	286.83269	3.56628	0.0958521	0.25897618	2.4376022	21	10 17.8	19.0
137001 1998 SA_{81}	16.6	X	358.06652	193.85726	204.40705	2.80647	0.2114754	0.26226484	2.4171819	21	—	—
137002 1998 SN_{83}	15.8	X	56.19678	296.63208	1.97828	5.85439	0.1041533	0.25993459	2.4316067	21	10 29.1	18.9
137003 1998 SU_{90}	16.7	X	315.40157	356.03098	6.88654	3.81757	0.1124735	0.25417725	2.4681882	21	8 14.2	19.2
137004 1998 SA_{92}	15.9	X	257.59692	110.61919	197.81468	12.87994	0.1945573	0.24233959	2.5479240	21	2 27.7	20.1
137005 1998 SN_{93}	16.8	X	322.93632	208.29669	167.22042	1.20334	0.1976418	0.25599753	2.4564741	21	9 7.3	18.6
137006 1998 SX_{94}	16.0	X	147.33124	226.36640	163.05618	10.67737	0.1378172	0.23651378	2.5895944	21	2 28.1	19.7
137007 1998 SC_{108}	15.7	X	47.86185	109.19702	331.08125	4.21316	0.1780154	0.27160095	2.3614669	21	—	—
137008 1998 SL_{108}	16.1	X	121.31147	208.26309	237.22632	3.41678	0.1591486	0.23781222	2.5801598	21	4 13.4	19.8
137009 1998 SS_{120}	16.2	X	326.27186	210.32575	130.73450	3.81856	0.1650026	0.21002255	2.8030150	21	7 22.3	19.3
137010 1998 ST_{121}	16.3	X	215.53520	52.52270	325.13819	2.92771	0.2739803	0.24284772	2.5443686	21	4 16.3	20.8
137011 1998 SF_{122}	14.0	X	330.07624	1.41081	354.32494	5.36537	0.3302601	0.12431862	3.9759898	21	7 26.7	18.1
137012 1998 SY_{125}	16.6	X	215.43015	320.51450	48.71068	5.30325	0.2638128	0.24255306	2.5464288	21	4 9.1	21.0
137013 1998 SF_{130}	16.2	X	206.49533	51.33931	14.66805	4.29541	0.2238152	0.24525673	2.5276800	21	6 9.8	20.5
137014 1998 SM_{130}	14.1	X	328.72018	121.82527	219.10575	1.66083	0.2828178	0.12330966	3.9976488	21	7 9.3	18.5
137015 1998 SW_{130}	14.1	X	338.13920	78.99105	260.05226	2.76021	0.3318673	0.12455615	3.9709334	21	7 21.3	18.0
137016 1998 SH_{131}	16.2	X	159.63562	65.67113	351.21795	4.78120	0.3238946	0.23851340	2.5751006	21	4 25.4	21.0
137017 1998 SW_{139}	15.1	X	229.80621	192.87862	222.18853	11.62578	0.1126307	0.24736333	2.5133087	21	6 24.5	19.0
137018 1998 SL_{160}	16.2	X	270.81623	238.49341	112.40031	4.47587	0.1409297	0.24721359	2.5143235	21	5 16.3	19.6
137019 1998 SE_{168}	15.4	X	257.34262	246.85465	48.91669	5.33471	0.2221243	0.24317236	2.5421036	21	2 15.5	19.6
137020 1998 TL	16.1	X	225.77110	40.51764	2.71947	6.46221	0.2402479	0.24536296	2.5269504	21	5 26.5	20.4
137021 1998 TV_{2}	16.0	X	169.01082	215.40296	229.14469	5.21955	0.1394543	0.24236029	2.5477789	21	5 31.5	19.9
137022 1998 TF_{3}	15.9	X	146.59835	41.65434	15.37190	21.83777	0.0296045	0.37032125	1.9205117	21	3 11.4	18.0
137023 1998 TB_{15}	16.5	X	249.60440	295.85102	30.62645	4.20665	0.1619837	0.24068554	2.5595840	21	3 21.1	20.4
137024 1998 TH_{15}	17.1	X	258.39979	264.58925	215.67737	0.59845	0.1377868	0.25637690	2.4540502	21	10 25.2	19.9
137025 1998 TT_{15}	16.0	X	135.54938	225.53624	247.27250	3.51504	0.0309968	0.24281229	2.5446161	21	5 21.4	19.3
137026 1998 TX_{16}	16.4	X	318.08477	287.82369	356.15829	4.65919	0.1603420	0.24523729	2.5278136	21	4 13.2	19.5
137027 1998 TH_{17}	16.8	X	95.63696	337.62021	293.83091	1.34697	0.1587054	0.25985858	2.4320809	21	11 16.3	20.4
137028 1998 TO_{17}	15.9	X	261.97616	274.06042	6.31923	3.25806	0.1691547	0.23714011	2.5850327	21	2 4.2	20.0
137029 1998 TB_{19}	17.0	X	250.88006	350.31841	8.45242	3.96717	0.2790441	0.24548988	2.5260793	21	4 20.2	21.2
137030 1998 TR_{19}	16.0	X	94.23856	99.03956	24.00200	20.64370	0.0819946	0.36880266	1.9257801	21	4 4.4	17.6
137031 1998 TJ_{22}	16.9	X	96.88794	41.30437	26.82515	1.01229	0.0924422	0.23222364	2.6213908	21	2 10.5	20.1
137032 1998 UO_{1}	16.6	X	143.53731	252.48617	358.44796	25.49748	0.7631913	0.48906698	1.5954768	21	12 7.7	20.9
137033 1998 UM_{6}	15.9	X	193.12594	250.86534	57.48708	5.18095	0.1680831	0.23209867	2.6223316	21	1 8.7	20.1
137034 1998 UD_{14}	16.1	X	99.43299	75.50192	177.88643	2.23652	0.1418616	0.25652431	2.4531101	21	10 27.5	19.6
137035 1998 UE_{17}	16.1	X	71.77866	128.82875	320.90017	6.59899	0.0647650	0.27603085	2.3361334	21	1 19.9	18.5
137036 1998 UC_{18}	16.3	X	308.79454	185.36533	260.99056	7.51059	0.1928792	0.25943335	2.4347377	21	11 28.9	18.2
137037 1998 UM_{19}	17.0	X	96.12426	23.19575	34.15494	22.06086	0.1020402	0.36190605	1.9501686	21	—	—
137038 1998 UA_{26}	16.2	X	193.10562	293.64529	78.03127	5.03936	0.2211866	0.23863797	2.5742043	21	3 27.6	20.6
137039 Lisiguang	15.5	X	157.08215	338.46258	61.21525	14.75291	0.1805373	0.23457726	2.6038269	21	4 3.3	19.8
137040 1998 UY_{35}	16.1	X	16.16253	5.39652	37.74293	3.06711	0.2050504	0.26362159	2.4088813	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137041 1998 UG_{43}	15.2	X	223.23082	79.00296	345.90550	6.19109	0.1410473	0.24683831	2.5168713	21	6 29.6	19.1
137042 1998 UT_{46}	16.0	X	142.83789	180.07959	13.38312	2.22156	0.1343825	0.25627588	2.4546951	21	9 24.2	19.6
137043 1998 UL_{49}	16.7	X	132.03635	230.35479	216.83800	4.14093	0.2659080	0.23582810	2.5946115	21	5 9.2	20.8
137044 1998 UC_{50}	16.6	X	176.93980	166.42341	335.05059	4.38810	0.4286252	0.28775850	2.2722212	21	8 19.2	21.1
137045 1998 VE	15.7	X	333.42422	100.44903	270.47305	1.11809	0.2284178	0.25499929	2.4628809	21	9 23.8	17.1
137046 1998 VE_{6}	15.7	X	170.22954	35.56397	27.34260	11.72782	0.2304584	0.23952491	2.5678457	21	5 6.3	20.0
137047 1998 VZ_{10}	15.9	X	200.78347	205.33285	221.99222	3.60439	0.2511458	0.24385171	2.5373800	21	6 6.9	20.2
137048 1998 VP_{13}	16.1	X	181.85698	131.20937	247.30717	3.60109	0.2496130	0.23812356	2.5779103	21	3 23.7	20.7
137049 1998 VB_{14}	15.5	X	131.72808	93.20836	351.28689	4.73177	0.2096642	0.23692397	2.5866046	21	4 28.3	19.5
137050 1998 VL_{15}	15.6	X	149.07769	212.33836	223.39133	11.86147	0.2644412	0.23812158	2.5779246	21	5 9.0	19.9
137051 1998 VA_{27}	15.9	X	211.31543	141.12400	236.95895	13.18857	0.1771799	0.24127451	2.5554168	21	4 14.4	20.3
137052 Tjelvar	16.9	X	124.83594	209.90938	64.28935	14.90943	0.8095659	0.70696716	1.2479674	21	—	—
137053 1998 VQ_{33}	16.8	X	155.20895	4.74428	59.22619	23.05652	0.0941133	0.36838996	1.9272181	21	4 16.4	19.4
137054 1998 VB_{34}	15.9	X	142.70728	59.90109	73.49223	7.48475	0.2191656	0.24079864	2.5587825	21	7 12.6	20.2
137055 1998 VN_{36}	15.6	X	247.36095	128.75981	240.38677	11.80406	0.1903149	0.24415057	2.5353089	21	5 7.2	19.5
137056 1998 VW_{43}	15.4	X	156.82872	316.13289	101.53283	10.20069	0.1954029	0.23359512	2.6111202	21	4 23.7	19.8
137057 1998 VK_{44}	16.6	X	70.24756	63.84443	64.68516	23.06276	0.0780124	0.36496318	1.9392629	21	3 14.1	19.0
137058 1998 VN_{45}	16.1	X	224.89181	346.99951	50.74783	9.93766	0.2940794	0.24432940	2.5340717	21	5 17.5	20.5
137059 1998 VA_{49}	15.9	X	334.00978	235.66560	166.98819	8.83715	0.2642665	0.25762438	2.4461218	21	11 26.2	17.5
137060 1998 VO_{50}	15.6	X	161.00475	282.36127	129.23043	3.53675	0.1873639	0.23756056	2.5819817	21	4 16.1	19.7
137061 1998 VR_{50}	16.3	X	321.27842	164.85623	250.42360	1.15816	0.1906575	0.25669522	2.4520211	21	11 8.1	18.2
137062 1998 WM	16.6	X	118.10153	172.54257	45.63379	22.51403	0.3152736	0.72734320	1.2245498	21	11 19.8	17.2
137063 1998 WK_{1}	14.7	X	295.80123	351.01216	336.04081	15.10810	0.1420547	0.24639871	2.5198640	21	5 8.0	18.3
137064 1998 WP_{5}	18.9	X	324.53727	97.63339	36.11647	19.50216	0.1951898	0.61194679	1.3740217	21	—	—
137065 1998 WH_{6}	15.9	X	262.06626	131.88713	240.18126	13.03926	0.1886641	0.24571801	2.5245156	21	5 27.1	19.4
137066 Gellért-hegy	17.3	X	127.18322	29.44087	30.56041	20.67419	0.0888145	0.36394445	1.9428800	21	3 1.5	19.7
137067 1998 WQ_{9}	15.6	X	196.18386	190.02041	214.11496	5.38368	0.2421390	0.24108786	2.5567356	21	5 6.1	19.9
137068 1998 WD_{13}	15.8	X	263.87803	105.53837	266.13864	3.34614	0.2139546	0.24633481	2.5202997	21	5 25.2	19.7
137069 1998 WQ_{15}	16.1	X	221.33086	331.41369	77.50983	9.52277	0.3577711	0.24454971	2.5325495	21	5 27.2	20.7
137070 1998 WE_{21}	15.8	X	117.83563	27.01687	36.95489	6.82995	0.2564524	0.23287133	2.6165279	21	3 28.8	19.6
137071 1998 WD_{29}	16.3	X	164.26236	208.37962	278.06306	0.33354	0.0284563	0.24702382	2.5156110	21	7 16.9	19.5
137072 1998 WM_{30}	16.2	X	285.25316	195.90030	57.08009	3.21659	0.0427003	0.23327803	2.6134858	21	2 9.7	19.7
137073 1998 WG_{33}	15.6	X	21.77591	261.75756	92.18913	3.39766	0.2056480	0.25849190	2.4406458	21	12 12.5	18.1
137074 1998 WJ_{34}	16.9	X	359.23676	3.61496	59.83034	1.62193	0.1377450	0.26224512	2.4173031	21	—	—
137075 1998 WK_{38}	16.8	X	192.67264	336.64077	73.34447	1.35418	0.2012062	0.24115387	2.5562690	21	5 10.4	21.0
137076 1998 XK_{3}	14.6	X	166.80780	134.60346	271.58152	18.26162	0.2524958	0.23363687	2.6108092	21	4 9.2	19.5
137077 1998 XE_{4}	16.3	X	292.53695	16.59503	100.52835	3.25877	0.1740737	0.25868095	2.4394565	21	12 12.7	18.2
137078 1998 XZ_{4}	16.2	X	164.94740	9.62182	324.44870	23.15983	0.6382528	0.36510432	1.9387631	21	2 3.6	20.1
137079 1998 XC_{5}	16.0	X	40.39829	114.17656	353.81943	5.49974	0.1697809	0.22653352	2.6651055	21	1 9.9	18.6
137080 1998 XD_{7}	15.6	X	39.26843	144.79362	230.72770	5.60872	0.1527915	0.26232850	2.4167909	21	—	—
137081 1998 XO_{7}	15.3	X	191.08031	27.44533	230.76413	9.47925	0.1289191	0.22204759	2.7008804	21	—	—
137082 Maurobachini	15.8	X	90.64802	220.10517	255.88397	13.92774	0.1108088	0.23334971	2.6129507	21	4 2.7	19.5
137083 1998 XZ_{13}	16.0	X	254.18145	272.63453	113.13284	3.24496	0.2204625	0.24600931	2.5225223	21	6 2.6	19.9
137084 1998 XS_{16}	16.4	X	152.39548	358.30963	272.99690	26.55540	0.4965807	0.73842836	1.2122638	21	—	—
137085 1998 XD_{18}	15.4	X	24.78773	332.95792	241.22392	13.07189	0.0504305	0.23954754	2.5676840	21	5 5.5	18.6
137086 1998 XX_{18}	16.2	X	182.42638	298.43850	70.29858	5.02548	0.1129739	0.23523648	2.5989600	21	3 11.6	20.2
137087 1998 XC_{19}	16.2	X	226.76604	251.37708	71.53051	2.78212	0.0858304	0.23504513	2.6003704	21	2 26.8	20.0
137088 1998 XT_{23}	16.5	X	327.12319	0.82811	153.77498	2.97495	0.1539094	0.26687980	2.3892352	21	—	—
137089 1998 XT_{43}	15.4	X	145.67612	320.88852	83.88616	13.17521	0.1578172	0.23279013	2.6171363	21	3 27.6	19.6
137090 1998 XZ_{57}	15.6	X	296.00204	334.70898	101.93006	9.63500	0.1893341	0.25373998	2.4710229	21	10 21.9	18.2
137091 1998 XU_{63}	15.0	X	99.73201	113.86777	306.19284	9.81458	0.1700710	0.22967207	2.6407701	21	2 13.9	18.4
137092 1998 XX_{68}	15.6	X	238.74786	80.49556	288.16712	9.93827	0.3064115	0.24290172	2.5439915	21	4 17.9	20.3
137093 1998 XW_{70}	15.9	X	187.49018	10.28582	69.34616	5.62303	0.1815359	0.24109979	2.5566513	21	6 11.9	20.1
137094 1998 XD_{84}	15.5	X	131.76182	196.31506	246.32723	14.33404	0.1249174	0.23454800	2.6040435	21	4 15.2	19.5
137095 1998 XX_{86}	15.2	X	132.54505	288.87257	141.52792	5.61015	0.2727851	0.23383718	2.6093180	21	4 21.6	19.4
137096 1998 XG_{97}	15.8	X	40.12003	129.57496	310.62231	4.05256	0.0917892	0.21974638	2.7197035	21	—	—
137097 1998 XP_{97}	15.5	X	143.77418	184.37571	242.23854	7.05782	0.1696436	0.23593962	2.5937939	21	4 13.7	19.6
137098 1998 YP_{2}	15.9	X	20.75044	163.81875	309.12037	8.78673	0.2018352	0.22037991	2.7144888	21	—	—
137099 1998 YW_{3}	18.2	X	344.07482	194.83978	94.27528	28.79243	0.4627061	0.85418924	1.1001029	21	1 17.1*	19.2
137100 1998 YM_{7}	13.9	X	272.43242	28.53823	331.05838	13.78459	0.2240731	0.24467644	2.5316750	21	5 12.5	18.0
137101 1998 YN_{17}	16.9	X	81.18590	17.38194	120.81767	1.46484	0.0905467	0.23086829	2.6316403	21	4 23.1	20.2
137102 1998 YL_{19}	15.9	X	188.37671	280.53698	297.55395	6.36065	0.0992354	0.25356146	2.4721826	21	12 10.9	19.6
137103 1998 YP_{27}	15.0	X	124.08037	13.88553	33.39418	14.04714	0.2528104	0.23015648	2.6370634	21	3 18.1	19.1
137104 1998 YU_{30}	15.9	X	159.01965	346.16059	101.25947	6.66577	0.2199574	0.23683895	2.5872236	21	5 30.1	20.2
137105 1998 YK_{31}	15.5	X	219.58599	313.52627	89.52673	5.27795	0.2255047	0.24339845	2.5405291	21	5 24.1	19.8
137106 1999 AQ_{5}	15.8	X	167.42839	78.34404	73.65723	6.44270	0.1240363	0.24149092	2.5538899	21	8 28.2	19.8
137107 1999 AT_{6}	15.8	X	73.23784	313.39017	129.54296	3.31004	0.1974330	0.22517658	2.6758015	21	2 10.5	18.6
137108 1999 AN_{10}	17.9	X	225.59357	268.31628	314.37781	39.93408	0.5620399	0.55949616	1.4586059	21	—	—
137109 1999 AL_{11}	16.2	X	251.98200	160.40565	290.50062	6.31314	0.0372610	0.24671415	2.5177156	21	9 17.3	19.6
137110 1999 AN_{12}	15.0	X	164.17131	270.83478	117.77154	14.81817	0.2078242	0.23132575	2.6281697	21	3 28.0	19.6
137111 1999 AX_{18}	16.0	X	223.07362	78.02485	130.60620	4.91678	0.0108861	0.21341048	2.7732704	21	—	—
137112 1999 AF_{20}	16.1	X	163.90868	73.98688	323.63987	4.68131	0.2319626	0.23069563	2.6329532	21	4 1.0	20.6
137113 1999 AG_{20}	15.7	X	204.44526	259.13721	323.62269	6.99822	0.0264637	0.21056629	2.7981875	21	—	—
137114 1999 AT_{24}	15.6	X	168.83289	225.41502	310.99086	3.84469	0.1229784	0.24341428	2.5404190	21	9 25.1	19.5
137115 1999 AZ_{30}	15.8	X	102.67843	318.91389	129.81488	4.60327	0.1954430	0.22901852	2.6457917	21	4 4.3	19.4
137116 1999 BL_{2}	15.8	X	143.53512	87.09161	319.10296	4.45225	0.1979624	0.22792165	2.6542735	21	3 22.5	20.0
137117 1999 BK_{4}	15.8	X	36.18417	31.27626	108.32391	11.92199	0.1847788	0.22522168	2.6754443	21	2 18.7	18.4
137118 1999 BV_{4}	15.3	X	86.01553	91.94637	329.73950	11.64378	0.1720382	0.22201274	2.7011629	21	2 1.6	18.5
137119 1999 BU_{6}	14.8	X	75.93179	136.08937	10.10574	16.37441	0.2796853	0.22725945	2.6594270	21	5 21.3	18.4
137120 1999 BJ_{8}	18.1	X	181.11527	221.83650	339.59594	8.99214	0.5501446	0.37669439	1.8987886	21	10 27.8	22.1

* The additional opposition: 12 19.2, $V = 18.4$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137121 1999 BJ_{11}	16.0	X	292.44318	34.36158	129.68407	3.39879	0.1243001	0.21309485	2.7760082	21	—	—
137122 1999 BX_{12}	16.1	X	239.42402	131.46811	295.30304	6.26979	0.2612936	0.24398780	2.5364364	21	7 7.4	20.1
137123 1999 BX_{21}	14.8	X	188.87101	304.91175	112.32093	13.02452	0.2150840	0.23876262	2.5733084	21	5 20.1	19.4
137124 1999 BH_{30}	15.7	X	44.57685	105.32940	333.46600	1.93217	0.0114434	0.21990193	2.7184209	21	—	—
137125 1999 CT_{3}	18.7	X	326.72214	268.20583	321.92471	34.23701	0.1317619	0.57830631	1.4268033	21	—	—
137126 1999 CF_{9}	18.0	X	140.12909	90.27672	157.07185	5.54754	0.6002127	0.41760734	1.7726540	21	12 8.2	21.9
137127 1999 CV_{22}	15.4	X	136.82465	121.43495	328.08330	11.83553	0.1554032	0.23272604	2.6176167	21	5 1.2	19.6
137128 1999 CQ_{31}	15.2	X	286.96046	106.47870	79.00755	6.02438	0.0982487	0.21589356	2.7519651	21	—	—
137129 1999 CE_{34}	16.0	X	106.19007	328.75881	130.80115	3.11781	0.1630544	0.22907632	2.6453466	21	4 17.5	19.5
137130 1999 CM_{38}	15.5	X	245.65549	53.67036	138.19429	4.84348	0.1349870	0.21047253	2.7990185	21	12 31.5	19.4
137131 1999 CN_{39}	15.8	X	153.56470	76.27703	114.11762	6.91842	0.0380406	0.24387532	2.5372162	21	10 1.9	19.4
137132 1999 CL_{43}	15.6	X	99.32131	330.50134	135.71525	14.41881	0.1447997	0.22827292	2.6515498	21	4 19.4	19.4
137133 1999 CE_{54}	15.2	X	308.55206	186.59598	337.96324	13.79868	0.1430482	0.21463674	2.7626975	21	—	—
137134 1999 CJ_{60}	16.3	X	120.20754	284.02371	161.39816	1.92068	0.1853647	0.22936152	2.6431532	21	4 17.7	20.0
137135 1999 CK_{63}	14.9	X	62.01427	185.42814	264.59470	12.55467	0.0947815	0.22246083	2.6975345	21	1 17.8	18.2
137136 1999 CL_{88}	15.3	X	106.05199	11.53686	63.62430	10.57756	0.1421482	0.22769939	2.6560004	21	3 18.1	19.0
137137 1999 CU_{95}	15.2	X	84.97749	130.90600	341.33141	11.78309	0.1346304	0.22731759	2.6589736	21	3 27.0	18.5
137138 1999 CC_{98}	16.1	X	15.39730	128.08463	1.16766	2.00139	0.2331197	0.22034340	2.7147886	21	—	—
137139 1999 CM_{98}	16.0	X	225.22132	120.79929	323.01859	4.11666	0.2807632	0.24240169	2.5474888	21	7 15.7	20.2
137140 1999 CH_{105}	15.3	X	39.12026	240.77964	256.30235	12.78030	0.1388595	0.22474210	2.6792491	21	2 10.1	18.5
137141 1999 CL_{112}	15.3	X	47.76467	275.98775	201.17797	11.91419	0.1631912	0.22311653	2.6922469	21	2 2.6	18.4
137142 1999 CZ_{113}	15.2	X	88.91691	127.74960	301.57142	12.07701	0.1321583	0.22283213	2.6945371	21	2 6.1	18.4
137143 1999 CT_{115}	15.6	X	278.09459	347.74288	193.33091	7.81763	0.1500343	0.21289878	2.7777124	21	—	—
137144 1999 CL_{117}	15.0	X	2.54092	308.07671	254.05207	10.97600	0.2257389	0.22408387	2.6844933	21	2 24.3	17.9
137145 1999 CA_{135}	15.9	X	325.02845	130.11179	342.55974	2.67604	0.0368644	0.21212932	2.7844254	21	—	—
137146 1999 CS_{145}	15.3	X	296.34742	315.36742	346.00776	6.01261	0.1689065	0.18331771	3.0690203	21	4 11.1	19.6
137147 1999 CW_{145}	15.3	X	75.88203	36.14230	296.70350	1.05753	0.0096859	0.20660883	2.8338061	21	12 15.6	19.1
137148 1999 CA_{151}	15.4	X	141.38941	52.52207	161.41583	2.58934	0.0410094	0.19943792	2.9013329	21	10 10.2	19.6
137149 1999 CB_{151}	15.0	X	92.98489	184.49913	155.25843	5.62747	0.0463038	0.20894826	2.8126145	21	—	—
137150 1999 CX_{155}	15.3	X	334.42178	343.71994	155.82652	15.86985	0.2239813	0.21605657	2.7505808	21	—	—
137151 1999 DO	15.3	X	44.35893	287.71706	165.76565	9.77837	0.1452021	0.22001298	2.7175060	21	—	—
137152 1999 DY_{4}	15.3	X	76.94694	289.05423	215.34124	12.93487	0.0576013	0.22971603	2.6404332	21	4 19.4	18.6
137153 1999 EC	15.4	X	247.06736	221.67350	4.58973	5.36668	0.0229156	0.21419544	2.7664908	21	—	—
137154 1999 EN	17.2	X	276.94031	148.13572	333.33643	1.07018	0.1302867	0.25180124	2.4836905	21	11 24.1	19.8
137155 1999 EA_{4}	17.7	X	234.52156	100.74711	348.65590	2.31467	0.1167299	0.28658513	2.2784191	21	8 18.4	20.6
137156 1999 EF_{4}	17.3	X	126.27533	93.88510	344.68446	2.21086	0.2486011	0.22895506	2.6462805	21	4 20.9	21.4
137157 1999 EW_{10}	16.3	X	52.30665	256.67668	178.48604	4.53478	0.0382154	0.21580626	2.7527073	21	—	—
137158 1999 FB	17.9	X	210.96238	3.03567	37.09799	12.89567	0.6068671	0.76898698	1.1799313	21	4 23.1	19.4
137159 1999 FO_{1}	15.6	X	277.37856	157.69883	304.44785	1.11076	0.0269757	0.20318779	2.8655258	21	11 3.8	19.3
137160 1999 FF_{32}	15.1	X	306.63236	133.12750	16.15331	13.07922	0.2293436	0.21108716	2.7935825	21	—	—
137161 1999 FK_{34}	14.4	X	35.56293	198.46506	29.55478	16.09918	0.0852834	0.18490544	3.0514266	21	6 15.0	18.5
137162 1999 FW_{35}	15.4	X	341.92921	64.22991	71.61902	2.71808	0.1729655	0.21629494	2.7485595	21	—	—
137163 1999 FE_{40}	15.3	X	53.84993	226.05367	303.73205	6.31343	0.2084469	0.22788985	2.6545203	21	5 8.6	18.1
137164 1999 FO_{51}	15.0	X	348.15737	50.14060	178.34745	16.71991	0.1953650	0.17976220	3.1093561	21	3 25.6	18.5
137165 Annis	15.3	X	266.79988	271.09526	349.42371	9.58611	0.2052557	0.17212280	3.2006912	21	1 24.1	20.6
137166 Netabahcall	15.2	X	338.22874	100.18060	158.54317	11.10023	0.0763898	0.18083454	3.0970518	21	5 3.7	19.4
137167 1999 GC_{3}	15.7	X	286.02169	65.77655	217.52901	0.43466	0.1936796	0.17690631	3.1427307	21	3 7.6	20.2
137168 1999 GK_{3}	15.5	X	359.05996	259.40238	14.15453	5.28159	0.1102803	0.18626248	3.0365874	21	6 20.2	19.2
137169 1999 GY_{9}	15.7	X	100.62777	10.63528	342.09462	3.05326	0.1001071	0.21484104	2.7609458	21	—	—
137170 1999 HF_{1}	14.6	X	93.82050	253.40296	155.86413	25.66084	0.4624229	1.32938855	0.8191588	21	—	—
137171 1999 HM_{7}	14.7	X	342.71248	257.26914	35.64128	16.56250	0.0800432	0.18405537	3.0608149	21	6 19.2	18.8
137172 1999 HJ_{9}	15.5	X	98.11529	219.18885	20.34161	4.89085	0.1609108	0.19291133	2.9664081	21	10 4.0	19.9
137173 1999 JY_{4}	16.6	X	253.52527	248.79676	29.62841	8.92879	0.2446801	0.30183596	2.2010102	21	1 13.7	20.5
137174 1999 JH_{5}	15.5	X	124.28446	115.32121	51.85830	31.07293	0.2833037	0.23311833	2.6146793	21	8 28.5	20.7
137175 1999 JA_{11}	18.3	X	340.76494	328.35007	116.24575	16.43500	0.3410969	0.69580569	1.2612777	21	—	—
137176 1999 JZ_{11}	16.2	X	238.51310	204.81128	124.28662	4.38545	0.2634146	0.30558292	2.1829812	21	3 3.4	19.9
137177 1999 JK_{12}	15.9	X	323.98465	113.27186	87.39099	7.81249	0.2545636	0.21658140	2.7461354	21	—	—
137178 1999 JT_{15}	16.8	X	319.99203	137.65614	144.30137	1.43401	0.1450549	0.31143402	2.1555529	21	4 8.9	18.8
137179 1999 JQ_{16}	15.4	X	236.28151	329.21981	59.19717	11.77584	0.0543360	0.18149041	3.0895858	21	6 4.6	20.0
137180 1999 JF_{20}	15.4	X	146.14778	231.04973	24.51018	8.33252	0.2091902	0.19954158	2.9003279	21	12 4.4	20.4
137181 1999 JA_{30}	14.6	X	333.57736	59.37364	222.47299	26.13427	0.1638355	0.18019897	3.1043298	21	5 14.0	18.3
137182 1999 JG_{40}	14.9	X	44.02130	61.74146	150.85639	1.72165	0.2106256	0.18157079	3.0886739	21	6 26.5	18.3
137183 1999 JX_{49}	14.3	X	234.32368	240.64739	66.86773	14.29815	0.1608269	0.16944983	3.2342627	21	2 25.9	19.8
137184 1999 JG_{63}	14.1	X	102.70039	248.17749	50.24068	8.01702	0.5579071	0.19362660	2.9590981	21	—	—
137185 1999 JT_{70}	15.3	X	63.97942	112.36548	61.60554	13.37093	0.2198124	0.22668367	2.6639285	21	6 5.4	18.3
137186 1999 JT_{72}	15.9	X	123.97440	68.09918	147.14171	3.69567	0.1471725	0.23674723	2.5878918	21	10 3.1	19.8
137187 1999 JC_{74}	14.8	X	316.33750	75.09840	186.15255	9.59325	0.1818250	0.17525618	3.1624269	21	3 18.6	18.9
137188 1999 JE_{85}	15.1	X	297.53657	61.29160	97.45220	17.79614	0.1433336	0.21006864	2.8026051	21	—	—
137189 1999 JU_{87}	14.8	X	93.33760	48.58592	101.14587	12.85404	0.2280796	0.22884025	2.6471656	21	6 15.8	18.5
137190 1999 JC_{88}	14.6	X	330.39320	78.87398	109.43015	13.58697	0.1372281	0.21620612	2.7493122	21	1 4.5	18.3
137191 1999 JG_{88}	14.6	X	173.39175	29.79479	118.77038	11.34974	0.0613028	0.19103792	2.9857698	21	8 26.9	19.1
137192 1999 JL_{89}	15.4	X	347.97763	123.27140	91.01880	9.13853	0.1072404	0.22016467	2.7162576	21	3 13.4	18.8
137193 1999 JB_{96}	14.6	X	299.60647	141.96238	126.46201	15.55178	0.2371568	0.17263128	3.1944032	21	3 2.7	19.3
137194 1999 JJ_{103}	16.6	X	260.70772	181.58589	122.89417	4.91500	0.1936654	0.30637123	2.1792350	21	2 22.1	19.9
137195 1999 JJ_{114}	15.8	X	53.22416	165.42382	56.83991	9.85056	0.0910274	0.22782368	2.6550344	21	7 7.7	19.1
137196 1999 JS_{129}	15.0	X	335.61734	55.97143	108.35665	10.19502	0.2083162	0.21305049	2.7763936	21	—	—
137197 1999 KA_{1}	17.3	X	59.03984	97.89886	159.08571	2.46080	0.1578844	0.32115480	2.1118340	21	9 23.3	19.3
137198 1999 KR_{2}	16.5	X	342.18558	83.52916	168.99979	1.62644	0.1584703	0.26679572	2.3897372	21	4 7.3	18.6
137199 1999 KX_{4}	16.9	X	259.54550	76.43277	104.91935	16.56978	0.2928426	0.56027884	1.4572472	21	—	—
137200 1999 KX_{12}	15.8	X	84.45937	109.58605	133.64444	3.78833	0.1611912	0.23301830	2.6154276	21	9 28.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137201 1999 KF_{13}	17.3	X	287.30839	149.17107	132.36018	3.76529	0.2620532	0.30557480	2.1830199	21	2 11.1	20.6
137202 1999 KJ_{13}	14.6	X	261.49779	91.81643	238.73703	19.53082	0.2763858	0.17376292	3.1805189	21	3 26.7	20.3
137203 1999 LX	16.6	X	256.80324	227.06798	128.42487	4.04482	0.1653828	0.31000635	2.1621658	21	4 29.4	19.5
137204 1999 LX_{2}	14.9	X	220.27819	247.10043	112.38795	9.38185	0.0653783	0.17500675	3.1654310	21	4 16.5	19.8
137205 1999 LN_{11}	15.5	X	301.58842	95.74087	177.97168	14.56140	0.2171087	0.17300539	3.1897964	21	3 10.2	20.0
137206 1999 LJ_{25}	16.6	X	223.29357	201.48734	102.17451	7.04982	0.2809009	0.29871348	2.2163219	21	1 20.6	20.5
137207 1999 LW_{31}	14.6	X	207.45961	356.67316	63.03659	12.32263	0.1122817	0.18217778	3.0818094	21	6 8.1	19.4
137208 1999 MC_{2}	16.3	X	163.75251	199.99174	116.76544	7.77503	0.2865754	0.28975989	2.2617462	21	—	—
137209 1999 NU_{1}	15.7	X	136.86056	20.68747	285.75252	20.46635	0.1481600	0.28513450	2.2861403	21	—	—
137210 1999 NO_{2}	16.2	X	187.73380	40.45392	276.40848	7.02984	0.1821539	0.29223438	2.2489606	21	1 4.5	19.6
137211 1999 NM_{4}	16.2	X	188.11532	209.24967	105.34927	8.44795	0.1674197	0.29392764	2.2403150	21	—	—
137212 1999 NB_{6}	16.7	X	188.72272	170.91480	131.11510	7.50229	0.2102966	0.29273937	2.2463734	21	—	—
137213 1999 NX_{10}	16.4	X	249.36972	66.19943	291.11965	6.10508	0.1444391	0.30460593	2.1876465	21	4 21.3	19.6
137214 1999 NF_{33}	16.5	X	208.12440	201.89016	113.53694	9.48505	0.2372328	0.29622443	2.2287198	21	1 22.9	20.2
137215 1999 NU_{36}	16.5	X	240.16567	287.16053	55.96139	3.98070	0.1653797	0.30285305	2.1960796	21	3 27.2	19.7
137216 1999 NV_{62}	16.3	X	194.39199	86.91497	239.25127	7.68786	0.2185640	0.29560604	2.2318269	21	1 21.7	20.0
137217 Racah	16.2	X	99.08980	159.93685	211.17346	6.27917	0.1260460	0.28541953	2.2846180	21	—	—
137218 1999 OQ_{5}	16.4	X	170.93487	187.39773	141.83834	10.98815	0.1769826	0.29230036	2.2486221	21	1 3.2	19.7
137219 1999 PX_{2}	16.7	X	302.66058	90.28341	276.68570	2.00708	0.1798234	0.31303453	2.1481992	21	7 17.2	18.3
137220 1999 PF_{8}	16.6	X	317.50771	192.44961	102.11986	2.85068	0.1723910	0.30805803	2.1712726	21	4 20.7	18.7
137221 1999 RX	16.1	X	75.67900	99.34960	269.78967	3.57818	0.1649632	0.28399062	2.2922750	21	—	—
137222 1999 RB_{1}	16.1	X	249.24382	54.26240	204.91555	4.79524	0.1647039	0.29350141	2.2424835	21	—	—
137223 1999 RM_{7}	16.4	X	43.62346	61.84544	7.21733	8.33490	0.0661559	0.28425029	2.2908788	21	—	—
137224 1999 RW_{9}	16.3	X	14.49312	214.60546	179.49474	4.75569	0.1602369	0.27618812	2.3352464	21	—	—
137225 1999 RB_{15}	17.2	X	158.71125	237.08961	155.56144	1.97734	0.2040055	0.29499156	2.2349252	21	3 15.7	20.6
137226 1999 RA_{19}	17.1	X	192.59355	154.38098	175.80815	4.35071	0.1718384	0.29408583	2.2395116	21	1 24.1	20.6
137227 1999 RR_{19}	16.8	X	91.27528	174.71295	164.22658	4.96922	0.2140464	0.28165842	2.3049113	21	—	—
137228 1999 RT_{20}	16.4	X	8.78123	26.99315	326.69072	4.98971	0.1315835	0.27209379	2.3586145	21	11 10.0	18.9
137229 1999 RD_{21}	16.5	X	58.07839	86.58685	341.11530	5.50063	0.2121889	0.28469411	2.2884972	21	—	—
137230 1999 RG_{22}	15.4	X	350.26615	75.38395	355.39058	22.39691	0.2968442	0.27543809	2.3394838	21	—	—
137231 1999 RQ_{22}	16.1	X	105.38755	202.05184	179.29451	23.03216	0.2227410	0.28631348	2.2798601	21	—	—
137232 1999 RZ_{23}	16.3	X	219.45970	147.85477	142.75170	6.67218	0.1356883	0.29209634	2.2496691	21	—	—
137233 1999 RE_{24}	15.8	X	153.60444	16.95895	47.03514	4.41045	0.1187807	0.29753153	2.2221876	21	4 13.5	18.8
137234 1999 RT_{24}	15.9	X	177.15630	87.67853	328.72183	5.38954	0.1372253	0.29913751	2.2142269	21	4 26.7	19.1
137235 1999 RY_{24}	16.4	X	29.61178	164.85826	200.52297	5.43686	0.1114009	0.27554001	2.3389069	21	12 27.7	19.3
137236 1999 RA_{25}	16.1	X	27.65486	46.60138	336.20358	6.40772	0.1048767	0.27698994	2.3307376	21	—	—
137237 1999 RG_{26}	16.6	X	80.18043	354.18737	24.76128	4.41448	0.2721857	0.28259255	2.2998291	21	—	—
137238 1999 RN_{29}	15.6	X	28.18387	254.64284	185.20055	21.68461	0.3559538	0.28247709	2.3004558	21	—	—
137239 1999 RB_{31}	15.7	X	176.71560	313.06784	349.69141	24.85730	0.1649222	0.28713456	2.2755117	21	—	—
137240 1999 RD_{35}	15.4	X	18.84543	199.78432	204.90457	24.36745	0.2158123	0.27601125	2.3362440	21	—	—
137241 1999 RV_{36}	16.5	X	64.05656	338.72512	18.07003	6.50289	0.1423963	0.27979169	2.3151520	21	—	—
137242 1999 RY_{53}	17.0	X	187.18891	178.94865	151.83752	6.12121	0.2093253	0.29409420	2.2394691	21	1 22.4	20.5
137243 1999 RP_{59}	16.4	X	40.24816	16.20976	355.88733	6.53829	0.1351164	0.27943671	2.3171123	21	—	—
137244 1999 RY_{59}	16.6	X	70.05973	16.43081	301.09156	5.75172	0.0801333	0.32368835	2.1007998	21	12 21.7	19.2
137245 1999 RW_{62}	16.3	X	96.39999	176.28966	189.70622	5.47309	0.1341206	0.28551142	2.2841278	21	—	—
137246 1999 RN_{63}	17.1	X	232.90897	125.84768	186.39736	4.73624	0.1604543	0.29753244	2.2221830	21	2 6.5	20.4
137247 1999 RG_{66}	16.7	X	14.62688	184.28383	151.43256	2.44558	0.0815739	0.31727532	2.1290140	21	10 29.3	18.7
137248 1999 RD_{74}	16.3	X	127.51911	234.42682	150.56039	6.29826	0.1500189	0.29044433	2.2581916	21	1 21.6	18.9
137249 1999 RS_{74}	16.5	X	52.03146	325.26649	149.61198	8.31642	0.0279987	0.29569451	2.2313817	21	1 16.5	18.9
137250 1999 RO_{75}	17.0	X	185.14109	123.68066	189.72966	5.94163	0.1580956	0.29096701	2.2554864	21	—	—
137251 1999 RC_{76}	16.7	X	1.77371	220.59557	196.85565	3.99079	0.2226619	0.27689696	2.3312594	21	—	—
137252 1999 RG_{82}	16.3	X	203.71418	333.15447	307.73411	4.50542	0.1499955	0.28963913	2.2623748	21	—	—
137253 1999 RO_{86}	16.2	X	192.28186	179.22447	86.34508	3.14930	0.2650906	0.28783943	2.2717953	21	—	—
137254 1999 RL_{87}	16.5	X	319.27945	47.96625	274.12065	0.47018	0.1967868	0.26326462	2.4110583	21	6 4.1	19.0
137255 1999 RO_{87}	16.7	X	76.67536	11.59532	359.64576	4.33470	0.1471117	0.28227323	2.3015633	21	—	—
137256 1999 RS_{87}	16.7	X	81.23441	44.12736	11.46468	3.49875	0.1955309	0.28668385	2.2778960	21	—	—
137257 1999 RQ_{88}	16.3	X	41.41467	209.01795	187.11719	5.79097	0.1732021	0.27989822	2.3145645	21	—	—
137258 1999 RP_{95}	16.5	X	39.95892	190.63256	157.76284	7.29377	0.2095060	0.27537925	2.3398171	21	—	—
137259 1999 RZ_{96}	16.5	X	119.15591	84.82663	329.93488	7.06192	0.1131295	0.29232017	2.2485205	21	2 14.9	19.1
137260 1999 RM_{101}	16.8	X	229.90083	107.95009	198.16135	8.49885	0.1846359	0.29701020	2.2247872	21	1 25.9	20.6
137261 1999 RS_{109}	16.4	X	129.56788	35.33283	301.58608	4.76447	0.1916080	0.28531190	2.2851925	21	—	—
137262 1999 RF_{120}	16.6	X	189.28340	341.42714	325.13123	5.07731	0.2078063	0.29233429	2.2484482	21	—	—
137263 1999 RQ_{120}	16.5	X	337.01458	39.86058	289.76460	3.69543	0.1745340	0.31275443	2.1494816	21	7 31.4	17.7
137264 1999 RT_{121}	16.0	X	174.84773	122.94458	259.03763	7.42668	0.2154627	0.29707737	2.2244518	21	3 13.3	19.7
137265 1999 RO_{125}	16.6	X	85.16882	46.53357	302.74269	3.35233	0.1750515	0.28238352	2.3009640	21	—	—
137266 1999 RU_{125}	16.3	X	146.10965	158.88796	275.32222	3.01479	0.1540390	0.29911391	2.2143434	21	4 19.9	19.3
137267 1999 RS_{131}	16.0	X	57.35759	146.24736	240.22780	5.29089	0.1163918	0.28305870	2.2973035	21	—	—
137268 1999 RO_{139}	16.5	X	156.20011	224.55136	136.22442	3.86301	0.1985198	0.29253641	2.2474123	21	1 30.6	19.6
137269 1999 RH_{141}	16.1	X	302.36693	92.77809	319.81207	5.88552	0.1005455	0.27130226	2.3631998	21	10 3.7	18.5
137270 1999 RW_{143}	15.9	X	206.48347	78.77044	227.07440	2.28346	0.2054552	0.29300070	2.2450376	21	1 8.6	19.4
137271 1999 RC_{147}	16.6	X	177.28786	62.07501	252.26497	4.47426	0.1809271	0.29070744	2.2568288	21	—	—
137272 1999 RU_{154}	16.6	X	138.60058	94.34506	281.13764	1.93787	0.2319132	0.29073851	2.2566680	21	2 3.7	19.7
137273 1999 RX_{154}	16.4	X	52.01714	77.46891	325.48672	5.42460	0.1627377	0.28294048	2.2979434	21	—	—
137274 1999 RR_{156}	16.3	X	127.76825	66.13012	329.91159	6.74389	0.1473895	0.29184221	2.2509749	21	2 6.9	18.8
137275 1999 RP_{160}	16.2	X	160.05353	167.08933	143.73435	7.03857	0.1372498	0.28776743	2.2721742	21	—	—
137276 1999 RT_{162}	16.5	X	140.00853	51.80876	276.67819	3.76474	0.1998659	0.28678605	2.2773548	21	—	—
137277 1999 RT_{164}	16.0	X	132.28790	47.27603	325.63687	7.43260	0.1614261	0.28979878	2.2615439	21	1 15.4	18.8
137278 1999 RU_{165}	16.3	X	30.26530	63.71449	349.79993	6.39985	0.1552393	0.28118603	2.3074921	21	—	—
137279 1999 RP_{168}	16.5	X	53.01803	347.04044	349.33857	6.41847	0.1353278	0.27663801	2.3327139	21	12 23.6	19.6
137280 1999 RQ_{178}	16.5	X	169.00422	277.20320	14.88727	6.92244	0.1097871	0.28638596	2.2794754	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137281 1999 RL_{181}	16.4	X	123.87530	196.92783	162.52082	7.29420	0.1645525	0.28726556	2.2748199	21	—	—
137282 1999 RJ_{182}	16.4	X	83.47072	316.84174	351.84598	7.01343	0.1238915	0.27727617	2.3291333	21	12 20.7	19.9
137283 1999 RQ_{182}	16.5	X	12.39907	23.05960	323.55237	2.13214	0.2446224	0.27226820	2.3576071	21	11 26.4	18.7
137284 1999 RZ_{182}	17.2	X	177.25622	129.60297	167.88375	6.43106	0.2845417	0.28926559	2.2643221	21	—	—
137285 1999 RY_{184}	16.8	X	172.72011	296.96584	35.54410	5.73602	0.1758893	0.29114072	2.2545892	21	1 10.4	20.1
137286 1999 RR_{186}	16.7	X	270.38751	110.88278	169.15499	3.04465	0.2179398	0.29900800	2.2148663	21	1 28.8	20.1
137287 1999 RM_{188}	16.7	X	285.12252	328.05612	67.72975	4.35987	0.1623291	0.31101220	2.1575015	21	8 6.6	18.7
137288 1999 RX_{190}	16.1	X	249.93220	25.90250	258.29745	5.03645	0.1917359	0.29618455	2.2289198	21	1 17.5	19.6
137289 1999 RP_{193}	16.5	X	127.88171	135.38885	141.01213	6.33616	0.0980983	0.27568883	2.3380651	21	12 24.7	19.9
137290 1999 RK_{202}	16.3	X	0.73340	136.05082	297.64512	4.45211	0.1495462	0.27797527	2.3252266	21	—	—
137291 1999 RD_{206}	16.3	X	167.73831	42.11839	276.32966	5.21825	0.2544496	0.28897871	2.2658204	21	—	—
137292 1999 RL_{206}	16.3	X	145.87738	159.62570	198.99586	23.85877	0.1681979	0.28930930	2.2640940	21	1 8.9	19.9
137293 1999 RL_{208}	15.9	X	71.76982	75.75302	300.69132	6.48823	0.1277625	0.28120498	2.3073884	21	—	—
137294 1999 RE_{215}	6.4	X	76.19283	117.88268	149.26202	1.35086	0.1085190	0.00322825	45.3409727	21	9 19.2	22.9
137295 1999 RB_{216}	7.3	X	8.02595	208.33955	175.63533	12.67017	0.2965968	0.00298122	47.8123119	21	11 4.7	22.6
137296 1999 RL_{219}	16.3	X	153.08053	212.95816	145.45111	5.96457	0.2136483	0.29212333	2.2495305	21	1 25.7	19.5
137297 1999 RC_{226}	16.6	X	83.62291	91.21684	247.16455	5.94471	0.1430181	0.28136155	2.3065324	21	—	—
137298 1999 RF_{226}	16.3	X	67.90300	153.92348	249.39064	5.80509	0.0971324	0.28524875	2.2855297	21	—	—
137299 1999 RK_{229}	16.5	X	166.97392	272.03920	114.81042	6.69256	0.1770474	0.29635725	2.2280538	21	3 16.6	19.9
137300 1999 RC_{233}	16.1	X	83.50027	164.12907	238.32208	4.66641	0.1530275	0.28680021	2.2772799	21	—	—
137301 1999 RP_{239}	16.3	X	164.89047	18.07666	276.43793	9.55920	0.1729448	0.28484262	2.2877017	21	—	—
137302 1999 RB_{254}	17.0	X	91.13983	177.97687	166.97891	5.90539	0.1852467	0.28353550	2.2947273	21	—	—
137303 1999 SX_{9}	16.6	X	161.01404	326.85280	33.83251	5.20219	0.1537681	0.29118490	2.2543611	21	2 2.0	19.7
137304 1999 SK_{12}	16.5	X	173.00280	348.86772	330.94882	4.71044	0.2808189	0.29098626	2.2553870	21	1 3.8	20.1
137305 1999 SO_{14}	16.9	X	13.86641	184.12063	159.17811	1.54406	0.1990454	0.27155117	2.3617554	21	11 17.1	19.1
137306 1999 SU_{16}	16.2	X	87.76368	135.90337	228.42086	6.53101	0.1510473	0.28265640	2.2994828	21	—	—
137307 1999 SZ_{27}	15.3	X	69.95702	135.90702	248.27415	24.54660	0.2058000	0.28180852	2.3040928	21	—	—
137308 1999 TF_{2}	16.2	X	107.23582	173.34643	216.74694	5.64621	0.2580346	0.28639499	2.2794274	21	1 16.9	18.5
137309 1999 TM_{5}	15.9	X	324.73373	71.65302	27.46703	5.90336	0.1900616	0.27500171	2.3419581	21	—	—
137310 1999 TF_{9}	16.3	X	111.70685	345.30279	21.66349	5.94348	0.1858403	0.28468316	2.2885559	21	—	—
137311 1999 TX_{9}	13.8	X	61.59141	13.46154	49.90639	26.36134	0.2752476	0.27970132	2.3156507	21	—	—
137312 1999 TK_{10}	14.2	X	257.31320	218.55843	180.51598	7.78911	0.1719509	0.12458798	3.9702571	21	6 29.1	20.2
137313 1999 TR_{12}	17.3	X	12.73797	356.83804	2.61962	1.46464	0.1972604	0.27132081	2.3630921	21	12 7.5	19.7
137314 1999 TQ_{14}	17.4	X	240.05409	354.03063	14.74367	1.25410	0.1208862	0.30151272	2.2025830	21	5 1.6	20.4
137315 1999 TB_{20}	16.8	X	13.64983	329.15840	59.43614	5.62794	0.1480511	0.27438227	2.3454816	21	—	—
137316 1999 TQ_{20}	16.6	X	30.74837	312.85164	24.00585	2.72748	0.2030848	0.27256019	2.3559231	21	12 4.5	19.3
137317 1999 TY_{21}	16.6	X	326.50541	54.23800	24.55589	4.94223	0.1332708	0.27464560	2.3439821	21	12 31.7	18.8
137318 1999 TG_{22}	16.7	X	32.94187	328.20133	173.42575	5.40395	0.0968001	0.29144252	2.2530324	21	1 23.2	18.9
137319 1999 TV_{23}	16.7	X	350.38425	331.65616	87.49728	1.36172	0.1095759	0.23053359	2.6341868	21	12 29.7	19.7
137320 1999 TZ_{28}	16.2	X	227.38945	96.33723	206.70643	3.57048	0.1870890	0.29447879	2.2375189	21	1 21.7	19.8
137321 1999 TN_{29}	16.7	X	6.40844	174.46696	198.41493	4.75191	0.2340944	0.27301044	2.3533320	21	12 22.9	19.0
137322 1999 TR_{32}	16.7	X	67.98398	106.37218	204.21601	2.30377	0.2562506	0.27588841	2.3369374	21	12 19.9	20.3
137323 1999 TF_{35}	15.9	X	28.83437	229.68589	194.11187	21.03276	0.2747875	0.27940637	2.3172800	21	—	—
137324 1999 TX_{35}	16.3	X	38.82685	348.44113	19.26416	13.20324	0.1677521	0.27559412	2.3380007	21	—	—
137325 1999 TQ_{37}	16.0	X	40.47544	131.87502	258.01572	6.04506	0.1317677	0.28019244	2.3129440	21	—	—
137326 1999 TT_{40}	16.1	X	103.32868	24.82352	29.02405	7.50173	0.1704766	0.28886761	2.2664013	21	2 3.1	18.5
137327 1999 TK_{41}	16.8	X	99.28990	241.29360	28.60803	6.02113	0.2160203	0.27191960	2.3596216	21	11 22.8	20.5
137328 1999 TJ_{42}	17.3	X	2.16339	145.86238	336.76384	2.50933	0.1101380	0.28618209	2.2805578	21	—	—
137329 1999 TO_{45}	16.8	X	88.36678	331.41714	326.08813	1.90205	0.1301342	0.27428778	2.3460202	21	12 11.6	20.3
137330 1999 TS_{45}	16.2	X	313.47382	252.47056	221.39854	4.25159	0.0914107	0.27635519	2.3343052	21	—	—
137331 1999 TX_{53}	17.0	X	69.76130	182.82006	213.84586	6.36330	0.1051307	0.28233282	2.3012394	21	—	—
137332 1999 TS_{58}	17.0	X	46.70810	192.66812	163.56512	2.42137	0.2066534	0.27458000	2.3443554	21	—	—
137333 1999 TN_{63}	16.2	X	192.82204	143.85872	52.72210	7.47335	0.0795920	0.27021967	2.3695074	21	11 22.9	19.2
137334 1999 TC_{67}	17.0	X	109.11849	304.81007	342.15603	1.89935	0.1095619	0.27522902	2.3406684	21	12 18.6	20.4
137335 1999 TE_{68}	17.0	X	285.66360	278.02998	180.47906	2.84987	0.1429828	0.26829740	2.3808118	21	11 9.2	19.4
137336 1999 TG_{68}	16.7	X	150.57513	332.53465	173.40660	2.50095	0.1373153	0.25617541	2.4553369	21	7 31.3	20.5
137337 1999 TX_{76}	17.3	X	47.40924	312.62056	186.99768	0.20153	0.1091979	0.28977064	2.2616903	21	2 17.9	19.1
137338 1999 TH_{77}	16.4	X	289.82117	155.06467	24.07830	3.80197	0.1968429	0.27965312	2.3159167	21	—	—
137339 1999 TD_{78}	17.0	X	89.51641	308.01314	0.06157	2.79471	0.2236026	0.28050772	2.3112105	21	—	—
137340 1999 TB_{83}	16.9	X	343.44432	49.88618	162.90826	2.83720	0.1576281	0.29561533	2.2317802	21	2 2.4	19.3
137341 1999 TD_{83}	15.9	X	213.41802	19.82594	123.89012	2.04537	0.1119194	0.17798472	3.1300233	21	9 27.3	20.6
137342 1999 TU_{85}	17.6	X	353.42167	231.50142	165.17491	1.54232	0.1897363	0.27119376	2.3638301	21	12 26.1	19.6
137343 1999 TV_{85}	17.5	X	85.05207	286.46319	81.99319	1.52402	0.2171123	0.28045982	2.3114737	21	—	—
137344 1999 TB_{89}	16.7	X	148.65634	346.92352	358.68495	2.46923	0.1829007	0.28874448	2.2670456	21	1 1.8	19.6
137345 1999 TK_{89}	16.7	X	176.56520	301.32815	31.23818	1.74056	0.2241371	0.29130868	2.2537224	21	1 17.8	20.0
137346 1999 TP_{90}	16.2	X	111.32140	323.48415	41.42622	6.42558	0.1912613	0.28565625	2.2833557	21	—	—
137347 1999 TL_{94}	16.5	X	357.99757	350.87900	42.24848	5.59775	0.1556916	0.27354584	2.3502603	21	12 24.8	18.8
137348 1999 TZ_{94}	16.2	X	79.59398	327.60312	72.08545	6.43627	0.2346816	0.28402063	2.2921136	21	—	—
137349 1999 TQ_{97}	13.5	X	256.65645	229.82463	160.84164	9.44264	0.1796745	0.12412096	3.9802097	21	6 18.6	19.5
137350 1999 TK_{100}	16.1	X	259.03440	235.43143	48.84574	8.01691	0.1999104	0.29670400	2.2263176	21	1 28.6	19.7
137351 1999 TO_{100}	16.5	X	119.91953	249.06180	121.27562	4.04686	0.1733134	0.28673051	2.2776489	21	—	—
137352 1999 TY_{103}	16.2	X	106.39082	356.50942	332.86296	4.13326	0.1282795	0.28041488	2.3117206	21	—	—
137353 1999 TW_{104}	16.3	X	93.05268	97.08286	234.99063	3.30187	0.2031161	0.27971675	2.3155655	21	—	—
137354 1999 TA_{105}	16.9	X	147.95007	125.13759	233.18301	2.58031	0.2123142	0.28881658	2.2666683	21	1 20.3	20.0
137355 1999 TS_{106}	16.1	X	114.10883	98.65776	245.22191	6.05945	0.1585519	0.28508670	2.2863958	21	—	—
137356 1999 TN_{108}	16.2	X	125.98501	56.67479	314.34149	7.08408	0.1436933	0.28819292	2.2699372	21	1 1.1	18.8
137357 1999 TQ_{108}	16.5	X	152.32869	71.57001	257.90362	2.73118	0.1729346	0.28801529	2.2708704	21	—	—
137358 1999 TE_{111}	16.3	X	93.70081	98.91010	315.01558	6.48907	0.0946292	0.28850713	2.2682888	21	1 3.8	18.6
137359 1999 TS_{113}	15.9	X	314.03226	92.08191	348.99274	6.14838	0.1176319	0.27352517	2.3503787	21	12 8.6	18.2
137360 1999 TF_{114}	16.0	X	44.28478	42.04989	9.40611	5.53887	0.1528833	0.28139505	2.3063493	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137361 1999 TQ_{114}	16.5	X	182.10548	325.22884	2.15845	1.05943	0.1824720	0.29097051	2.2554683	21	1 13.0	19.9
137362 1999 TC_{117}	16.8	X	224.49626	326.61673	355.09179	3.88193	0.1628656	0.29545942	2.2325652	21	2 13.2	20.3
137363 1999 TD_{117}	16.4	X	66.62656	173.56209	214.04357	3.61603	0.1328280	0.28172590	2.3045433	21	—	—
137364 1999 TZ_{118}	16.8	X	107.86681	128.90091	188.65101	2.18432	0.1725984	0.28043322	2.3116198	21	—	—
137365 1999 TU_{120}	17.1	X	17.27206	104.86119	283.58980	1.50928	0.2316196	0.27516191	2.3410490	21	—	—
137366 1999 TV_{120}	16.2	X	132.03231	310.69004	3.25731	7.38107	0.1488602	0.28253540	2.3001393	21	—	—
137367 1999 TC_{123}	16.8	X	32.79994	350.86059	5.23590	5.28242	0.1689322	0.27412092	2.3469721	21	12 28.9	19.8
137368 1999 TE_{124}	16.6	X	78.14446	292.56366	66.90102	3.81206	0.1810838	0.28013578	2.3132558	21	—	—
137369 1999 TQ_{124}	16.8	X	102.72016	348.20526	345.32222	5.05610	0.1442644	0.28145952	2.3059971	21	—	—
137370 1999 TA_{126}	16.9	X	84.27053	339.70665	2.29788	5.99505	0.1759454	0.27973236	2.3154794	21	—	—
137371 1999 TF_{126}	16.1	X	296.87076	100.21725	21.26998	2.84350	0.1558748	0.27555734	2.3388089	21	—	—
137372 1999 TM_{126}	16.4	X	54.06373	64.94334	343.00605	6.34206	0.0872548	0.28228023	2.3015252	21	—	—
137373 1999 TD_{128}	16.7	X	143.40615	73.04350	10.54105	3.97830	0.1056530	0.29759691	2.2218621	21	4 25.0	19.7
137374 1999 TJ_{128}	16.9	X	63.22424	326.30029	49.89017	3.93893	0.1858589	0.27961709	2.3161156	21	—	—
137375 1999 TM_{131}	16.5	X	40.40511	214.03792	199.75487	5.79296	0.0589024	0.28216397	2.3021574	21	—	—
137376 1999 TT_{133}	16.3	X	184.89559	298.58858	323.32003	1.14266	0.2315648	0.28422214	2.2910300	21	—	—
137377 1999 TD_{135}	17.1	X	93.75007	135.25052	332.99420	1.41283	0.1487150	0.29323340	2.2438497	21	3 30.7	19.3
137378 1999 TS_{136}	16.4	X	4.94799	20.19283	8.79343	6.47236	0.1150011	0.27359434	2.3499826	21	12 24.4	19.0
137379 1999 TV_{138}	16.6	X	314.90931	48.54062	3.80167	1.59970	0.1774352	0.26889892	2.3772599	21	10 23.3	18.2
137380 1999 TO_{144}	16.4	X	206.96918	120.96160	187.93316	3.02624	0.1667594	0.29248954	2.2476524	21	1 11.2	19.8
137381 1999 TQ_{149}	16.6	X	40.00621	121.05367	286.40386	1.82916	0.2054825	0.27944418	2.3170710	21	—	—
137382 1999 TF_{150}	16.4	X	52.14723	270.49748	73.67340	3.74191	0.1400889	0.27540092	2.3396944	21	—	—
137383 1999 TL_{151}	16.9	X	102.49484	221.46346	160.69308	5.02044	0.2222683	0.28494654	2.2871455	21	—	—
137384 1999 TS_{154}	16.8	X	342.21190	67.01538	1.29208	5.44535	0.2153749	0.27313488	2.3526173	21	—	—
137385 1999 TC_{155}	16.8	X	98.67034	66.75929	253.82303	3.77919	0.2757290	0.27993954	2.3143367	21	—	—
137386 1999 TK_{155}	16.6	X	54.75026	40.58222	6.07286	5.90306	0.2173709	0.28047832	2.3113720	21	—	—
137387 1999 TB_{156}	16.2	X	310.05868	355.67962	28.73798	1.64816	0.1829780	0.26500492	2.4004911	21	8 27.8	18.2
137388 1999 TY_{156}	16.7	X	42.35782	78.63984	357.08190	8.54009	0.0562971	0.28508095	2.2864266	21	—	—
137389 1999 TL_{157}	16.7	X	123.22315	219.00731	213.32185	1.22223	0.1057563	0.29433887	2.2382279	21	3 14.9	19.4
137390 1999 TS_{157}	16.5	X	113.03004	61.87090	350.66045	6.42332	0.0890704	0.29088866	2.2558914	21	1 31.9	19.0
137391 1999 TF_{158}	16.5	X	314.23415	66.02213	346.76563	4.93617	0.2111768	0.26813600	2.3817671	21	10 17.4	18.2
137392 1999 TS_{159}	16.6	X	77.06074	229.99731	203.08448	6.60517	0.0619267	0.28897510	2.2658393	21	—	—
137393 1999 TW_{159}	16.6	X	352.87386	188.10643	263.52116	2.32683	0.1151621	0.28061291	2.3106329	21	—	—
137394 1999 TK_{162}	16.6	X	21.12135	329.37410	83.24199	3.83355	0.1479511	0.27739450	2.3284709	21	—	—
137395 1999 TZ_{163}	16.5	X	119.12786	209.14738	181.65010	9.88713	0.2180780	0.28696818	2.2763912	21	1 28.1	19.3
137396 1999 TY_{164}	15.7	X	41.66990	197.56456	208.69175	24.45297	0.1569023	0.28102716	2.3083616	21	—	—
137397 1999 TH_{165}	16.4	X	250.11921	131.15928	326.08696	4.46203	0.1824881	0.26582267	2.3955654	21	9 5.9	19.5
137398 1999 TW_{170}	16.4	X	320.14269	18.49066	23.05104	4.91843	0.1318132	0.26875040	2.3781357	21	10 20.5	18.6
137399 1999 TY_{171}	16.9	X	320.93240	256.56472	194.83406	2.72453	0.1616628	0.27311678	2.3527212	21	—	—
137400 1999 TC_{177}	16.9	X	144.26023	6.80538	18.05375	4.45596	0.0767321	0.29044862	2.2581693	21	2 3.9	19.7
137401 1999 TM_{177}	16.1	X	2.08948	178.56177	200.96473	6.12566	0.1982911	0.27127941	2.3633325	21	12 18.4	18.4
137402 1999 TS_{177}	16.9	X	110.16894	325.38541	31.30701	6.87885	0.2282513	0.28292103	2.2980487	21	—	—
137403 1999 TE_{178}	16.8	X	324.85272	247.42747	169.04032	2.91370	0.2310323	0.26953791	2.3735013	21	11 24.9	18.1
137404 1999 TT_{178}	15.5	X	298.46079	63.02300	75.07786	5.23764	0.1858849	0.27476958	2.3432769	21	—	—
137405 1999 TX_{179}	16.2	X	316.72659	185.05246	207.88950	6.30024	0.0687126	0.26686881	2.3893009	21	10 3.7	18.6
137406 1999 TC_{180}	16.4	X	73.62727	341.02626	359.05709	5.71029	0.1463247	0.27726870	2.3291752	21	—	—
137407 1999 TK_{180}	16.4	X	88.17425	1.39932	12.33819	7.07290	0.1187850	0.28201599	2.3029627	21	—	—
137408 1999 TK_{183}	16.7	X	62.75454	309.00858	92.80519	3.62344	0.1237246	0.28167603	2.3048152	21	—	—
137409 1999 TJ_{186}	16.2	X	355.97301	7.83281	336.01567	7.88817	0.1420430	0.26767871	2.3844790	21	10 1.0	18.5
137410 1999 TQ_{186}	16.7	X	86.94949	83.88102	300.83298	5.92333	0.1343615	0.28313770	2.2968762	21	—	—
137411 1999 TS_{188}	16.5	X	147.00024	36.56712	302.28625	6.77476	0.1856142	0.28650334	2.2788527	21	—	—
137412 1999 TM_{189}	16.4	X	286.31762	356.87058	297.52621	6.69885	0.1669203	0.29889639	2.2154176	21	3 6.4	19.6
137413 1999 TY_{189}	16.4	X	113.42752	58.37130	266.81943	8.22619	0.2656879	0.28159245	2.3052713	21	—	—
137414 1999 TB_{190}	16.3	X	11.64223	167.64150	283.91443	8.27196	0.1731870	0.27947623	2.3168938	21	—	—
137415 1999 TY_{192}	16.1	X	278.95309	88.22883	330.87226	6.92393	0.1439692	0.26420425	2.4053384	21	8 29.9	18.8
137416 1999 TW_{193}	16.5	X	18.45401	12.06748	7.25616	5.13974	0.2025086	0.27352676	2.3503697	21	—	—
137417 1999 TW_{194}	16.4	X	56.75112	339.63089	14.26219	4.43005	0.1994535	0.27597417	2.3364532	21	—	—
137418 1999 TK_{195}	16.5	X	22.76055	191.93973	276.34079	6.04225	0.1795332	0.28200177	2.3030401	21	—	—
137419 1999 TN_{195}	16.2	X	81.00728	4.24840	321.54773	5.07789	0.1516069	0.27568828	2.3380682	21	—	—
137420 1999 TT_{195}	16.2	X	326.02697	163.86485	271.86711	6.33114	0.0838457	0.27220229	2.3579877	21	12 22.4	18.3
137421 1999 TR_{199}	15.8	X	216.74769	315.37361	275.70040	5.79042	0.0745119	0.27875764	2.3208738	21	—	—
137422 1999 TE_{202}	16.8	X	49.83161	242.82045	249.95803	3.31303	0.0535202	0.29147741	2.2528526	21	2 8.5	19.1
137423 1999 TO_{202}	15.7	X	105.35363	56.23195	212.01614	7.67891	0.0755581	0.22696126	2.6617559	21	11 11.8	19.6
137424 1999 TY_{202}	16.4	X	118.45046	285.00984	6.73906	7.99026	0.1189077	0.27807430	2.3246745	21	—	—
137425 1999 TV_{205}	16.9	X	135.35481	68.47396	284.09601	2.35032	0.1524420	0.28481547	2.2878471	21	—	—
137426 1999 TM_{207}	15.8	X	246.15984	140.35291	301.95791	13.09267	0.0964119	0.26403411	2.4063716	21	8 20.4	19.1
137427 1999 TF_{211}	15.2	X	183.48181	161.97522	347.97617	39.34107	0.6102247	0.25718680	2.4488956	21	9 4.3	20.8
137428 1999 TJ_{211}	17.0	X	120.77099	172.32227	219.21635	4.79268	0.1471100	0.28968735	2.2621238	21	1 20.1	19.6
137429 1999 TX_{212}	16.5	X	166.57842	144.97228	220.48819	5.87670	0.1428433	0.29177649	2.2513129	21	2 8.6	19.7
137430 1999 TA_{213}	15.9	X	246.09108	161.23330	358.56161	5.65074	0.1594450	0.27416174	2.3467392	21	11 29.4	18.8
137431 1999 TU_{215}	16.8	X	55.09192	276.76298	91.70723	3.02375	0.1950927	0.27781741	2.3261073	21	—	—
137432 1999 TD_{216}	16.7	X	16.70614	233.61876	152.85076	2.39587	0.1755851	0.27450061	2.3448074	21	—	—
137433 1999 TT_{216}	16.9	X	168.70218	22.04053	315.95810	1.23852	0.2039117	0.28871018	2.2672252	21	1 15.6	20.3
137434 1999 TQ_{219}	16.4	X	43.75727	41.83865	325.89268	5.46222	0.1569248	0.27670962	2.3323115	21	—	—
137435 1999 TE_{220}	16.1	X	24.42644	125.08861	241.93455	6.12555	0.1317547	0.27431268	2.3458782	21	12 25.7	18.8
137436 1999 TE_{226}	16.5	X	5.67793	324.37246	331.37688	0.62769	0.1751321	0.26295584	2.4129455	21	8 10.4	18.4
137437 1999 TG_{229}	17.0	X	113.91910	85.67311	219.03273	4.37622	0.2099842	0.28083980	2.3093882	21	—	—
137438 1999 TP_{232}	16.7	X	149.85790	285.25978	106.94179	7.17342	0.1193984	0.29222986	2.2489838	21	2 27.3	19.7
137439 1999 TL_{233}	16.7	X	190.95096	39.88574	257.29397	6.14375	0.2430102	0.28985360	2.2612587	21	—	—
137440 1999 TX_{235}	16.3	X	116.77108	346.27322	64.75312	6.87202	0.1110758	0.28997988	2.2606022	21	2 9.0	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137441 1999 TG_{238}	16.4	X	307.90788	24.96575	71.54269	6.91725	0.2088884	0.27213976	2.3583489	21	12 17.3	17.9
137442 1999 TJ_{239}	15.0	X	338.95840	77.13614	63.69646	8.48761	0.1043583	0.28289552	2.2981869	21	—	—
137443 1999 TK_{240}	16.5	X	46.77489	180.05863	142.00749	3.09679	0.1709489	0.27213646	2.3583680	21	12 1.7	19.6
137444 1999 TE_{245}	14.4	X	122.63110	115.34303	272.36033	20.24284	0.2863302	0.28278892	2.2987644	21	2 2.4	17.8
137445 1999 TE_{247}	16.0	X	269.19960	323.31371	218.37238	6.60299	0.0479767	0.27861159	2.3216848	21	—	—
137446 1999 TW_{252}	16.6	X	103.82226	245.77698	140.71403	2.63788	0.1039976	0.28624117	2.2802440	21	—	—
137447 1999 TN_{254}	16.1	X	11.35755	308.17740	69.02424	14.07408	0.1969301	0.27325830	2.3519088	21	12 30.6	18.7
137448 1999 TS_{257}	16.7	X	62.42901	134.48389	175.11057	6.09058	0.2851002	0.27485866	2.3427706	21	12 16.6	20.4
137449 1999 TB_{264}	16.8	X	74.25818	255.79380	207.18609	3.79596	0.0748700	0.28999904	2.2605026	21	2 6.9	19.1
137450 1999 TG_{273}	15.2	X	1.30156	119.24467	319.58342	25.47870	0.1394466	0.27944322	2.3170763	21	—	—
137451 1999 TD_{280}	16.6	X	102.65334	311.20847	44.10817	1.47916	0.1146593	0.28359764	2.2943921	21	—	—
137452 1999 TW_{281}	15.9	X	168.04853	218.11849	102.94689	8.76364	0.0707458	0.24216493	2.5491490	21	—	—
137453 1999 TL_{283}	16.6	X	105.00548	188.75300	179.72062	5.69635	0.1399991	0.28347464	2.2950558	21	—	—
137454 1999 TT_{283}	16.6	X	58.46691	271.08238	58.59711	7.25672	0.2631758	0.27503323	2.3417791	21	—	—
137455 1999 TE_{285}	16.1	X	30.98696	5.48176	80.68735	7.32664	0.1040529	0.28131299	2.3067978	21	—	—
137456 1999 TF_{288}	16.7	X	345.20836	15.54912	91.72330	1.35811	0.1919442	0.27758025	2.3274320	21	—	—
137457 1999 TC_{289}	16.3	X	80.71530	67.62568	357.28066	7.48146	0.0522352	0.28693692	2.2765565	21	—	—
137458 1999 TD_{290}	16.1	X	1.59776	278.52622	179.34539	5.75332	0.1094825	0.27906438	2.3191728	21	—	—
137459 1999 TH_{293}	16.3	X	199.82989	9.19803	306.16636	4.34822	0.1816807	0.28995908	2.2607102	21	1 14.5	19.9
137460 1999 TN_{313}	15.7	X	284.49345	202.27982	260.63554	1.73947	0.0573340	0.18387626	3.0628021	21	11 7.2	19.8
137461 1999 TJ_{316}	16.3	X	124.94471	44.65754	219.62298	6.79967	0.1335728	0.27280157	2.3545332	21	12 6.9	19.9
137462 1999 TN_{316}	17.2	X	153.99433	85.63726	216.26518	2.02145	0.1656842	0.28199584	2.3030724	21	—	—
137463 1999 TT_{320}	16.8	X	142.38976	30.16405	321.17637	2.87770	0.1174594	0.28631466	2.2798538	21	—	—
137464 1999 TV_{320}	16.5	X	98.29706	307.23430	35.37549	8.56211	0.1552091	0.27955648	2.3164504	21	—	—
137465 1999 UG_{3}	16.7	X	310.73865	55.11427	352.84543	2.40793	0.0989437	0.26648570	2.3915903	21	10 13.6	18.9
137466 1999 UB_{4}	16.5	X	296.12463	38.25980	27.68022	2.77996	0.1695521	0.26728163	2.3868400	21	10 6.2	18.6
137467 1999 UN_{9}	16.3	X	253.75291	109.80392	315.41882	0.27225	0.2309460	0.26077730	2.4263653	21	7 22.7	19.9
137468 1999 UT_{11}	16.3	X	247.40913	319.28575	199.44867	1.58677	0.1352161	0.27150073	2.3620480	21	12 4.7	18.9
137469 1999 UE_{14}	16.1	X	338.08239	36.17099	57.23532	7.21019	0.1873835	0.27540017	2.3396986	21	—	—
137470 1999 UX_{15}	16.4	X	51.35907	263.91422	110.14524	3.59287	0.1659586	0.27733419	2.3288085	21	—	—
137471 1999 UN_{16}	16.3	X	51.17966	339.81824	20.31665	3.92264	0.1885077	0.27609702	2.3357601	21	—	—
137472 1999 UW_{16}	16.6	X	11.39444	57.58621	10.25351	2.30788	0.1912881	0.27677649	2.3319358	21	—	—
137473 1999 UY_{16}	16.6	X	325.53866	49.05037	10.80028	5.15439	0.2239744	0.27135993	2.3628649	21	11 30.9	18.2
137474 1999 UT_{17}	16.7	X	124.77044	137.97680	169.73289	2.45271	0.1716909	0.28144177	2.3060940	21	—	—
137475 1999 UD_{19}	16.9	X	83.37239	333.11917	36.44657	5.43239	0.1650429	0.28108796	2.3080288	21	—	—
137476 1999 UC_{20}	17.3	X	94.76323	19.22813	57.49219	1.74979	0.0870785	0.29073987	2.2566610	21	2 5.9	19.5
137477 1999 UG_{20}	16.5	X	327.37203	107.10804	71.63660	1.70766	0.0423789	0.28833082	2.2692134	21	—	—
137478 1999 UP_{21}	16.8	X	140.03154	82.75744	207.41581	0.63102	0.2264629	0.28067571	2.3102882	21	—	—
137479 1999 UC_{24}	16.3	X	96.16454	27.03407	316.81254	4.87111	0.1395932	0.28025820	2.3125821	21	—	—
137480 1999 UD_{30}	16.7	X	325.33193	104.51504	30.83116	9.59567	0.1691442	0.28053188	2.3110778	21	—	—
137481 1999 UJ_{30}	16.9	X	317.03759	149.47186	31.25099	9.43068	0.0784150	0.28695190	2.2764773	21	—	—
137482 1999 UM_{30}	16.9	X	118.81937	156.00783	185.48393	3.18401	0.2648870	0.28448869	2.2895987	21	—	—
137483 1999 UT_{32}	17.2	X	216.15305	132.98814	27.42007	3.04518	0.1252074	0.26936847	2.3744965	21	10 28.7	20.4
137484 1999 UK_{34}	17.0	X	192.86168	44.89186	206.52138	2.18393	0.1390118	0.28035128	2.3120702	21	—	—
137485 1999 UR_{35}	16.8	X	174.54434	337.16659	315.93643	0.59619	0.2170328	0.28408582	2.2917629	21	—	—
137486 1999 UY_{35}	16.6	X	140.84305	94.31780	192.24908	9.20737	0.0968971	0.28157608	2.3053607	21	—	—
137487 1999 UA_{37}	16.6	X	52.44335	20.69270	31.96079	4.03140	0.1675054	0.28208963	2.3025619	21	—	—
137488 1999 UG_{44}	16.6	X	111.48311	125.56129	253.70041	5.37461	0.1499670	0.28492134	2.2872803	21	—	—
137489 1999 UN_{45}	16.7	X	42.09254	181.46735	245.60990	6.53915	0.2063727	0.28071138	2.3100925	21	—	—
137490 1999 UQ_{50}	16.2	X	48.54182	206.06388	118.05145	3.54365	0.1766578	0.27190262	2.3597199	21	12 7.2	19.2
137491 1999 UD_{51}	16.3	X	11.76051	350.16920	87.56015	8.07282	0.2084547	0.27722698	2.3294088	21	—	—
137492 1999 UM_{51}	16.4	X	68.43755	278.33279	152.78409	6.16668	0.1317976	0.28401986	2.2921177	21	—	—
137493 1999 UO_{51}	16.0	X	151.95872	232.84453	115.95549	5.76773	0.1866523	0.28691295	2.2766832	21	1 10.2	19.0
137494 1999 UJ_{52}	15.6	X	254.53672	23.15710	117.42630	9.02539	0.1879631	0.26922281	2.3753529	21	11 14.2	18.5
137495 1999 UH_{53}	16.6	X	51.80862	111.36088	319.56515	5.68570	0.1625811	0.28314839	2.2968183	21	—	—
137496 1999 UM_{53}	16.6	X	113.75300	59.25043	220.96594	6.73026	0.1150640	0.27343426	2.3508997	21	12 14.9	20.0
137497 1999 VH	17.0	X	27.54379	305.18849	128.56848	2.46375	0.1908247	0.27954849	2.3164945	21	—	—
137498 1999 VP_{8}	15.7	X	326.25325	15.28130	84.86740	5.36214	0.1888440	0.27417109	2.3466858	21	—	—
137499 1999 VS_{11}	16.3	X	315.19512	42.28969	52.35706	5.91599	0.1987734	0.27097061	2.3651277	21	—	—
137500 1999 VG_{13}	15.5	X	71.92741	91.78020	39.98879	22.23534	0.2373503	0.28632951	2.2797749	21	4 19.7	17.5
137501 1999 VE_{15}	17.1	X	107.64491	141.54338	309.72656	1.28936	0.0648547	0.29552101	2.2322550	21	3 12.7	19.6
137502 1999 VP_{19}	16.4	X	117.30722	313.48781	46.37996	6.17985	0.1960015	0.28373087	2.2936738	21	—	—
137503 1999 VZ_{19}	16.3	X	156.63307	288.44075	33.14577	5.70113	0.2149508	0.28611583	2.2809099	21	—	—
137504 1999 VO_{21}	16.6	X	82.45692	115.07899	223.91900	11.09928	0.3186242	0.27900633	2.3194945	21	—	—
137505 1999 VZ_{21}	16.6	X	26.88407	146.77959	194.87989	1.82576	0.2380215	0.27052124	2.3677461	21	12 11.3	19.4
137506 1999 VA_{22}	16.6	X	334.34615	202.28803	154.34769	1.07856	0.2329992	0.26517148	2.3994858	21	9 3.4	17.6
137507 1999 VH_{23}	16.7	X	7.32374	17.79174	19.85922	6.58387	0.1099614	0.27354884	2.3502432	21	—	—
137508 1999 VV_{27}	16.7	X	20.29216	35.94989	34.99343	5.64974	0.2084515	0.27809704	2.3245478	21	—	—
137509 1999 VA_{29}	16.1	X	22.34039	60.20139	50.19807	4.31057	0.1272994	0.28188860	2.3036564	21	—	—
137510 1999 VL_{30}	16.0	X	307.42738	148.97878	246.70852	5.16346	0.1310164	0.26424104	2.4051151	21	9 12.6	18.6
137511 1999 VW_{32}	16.5	X	80.15619	152.91858	221.17866	2.76748	0.1139019	0.27912408	2.3188421	21	—	—
137512 1999 VZ_{33}	16.2	X	247.72670	280.98689	238.01746	6.16241	0.0606269	0.27171669	2.3607963	21	12 16.9	19.0
137513 1999 VY_{35}	16.3	X	272.31678	197.59781	226.06457	3.05001	0.1988862	0.26193731	2.4191965	21	8 15.9	19.2
137514 1999 VG_{37}	16.3	X	123.12025	160.82252	249.14811	6.27570	0.2117621	0.28772076	2.2724199	21	2 26.1	19.2
137515 1999 VC_{38}	16.4	X	3.94350	133.56257	255.73109	1.17596	0.2083543	0.27125811	2.3634562	21	—	—
137516 1999 VY_{41}	16.8	X	186.79354	274.04698	348.18701	3.83898	0.1272885	0.28143838	2.3061125	21	—	—
137517 1999 VT_{42}	16.9	X	130.35639	38.17432	310.50204	1.60606	0.1827857	0.28510718	2.2862863	21	—	—
137518 1999 VA_{43}	17.5	X	27.16823	154.43746	172.90159	2.15741	0.2231960	0.26877897	2.3779672	21	11 19.7	20.1
137519 1999 VW_{43}	16.9	X	127.68762	347.48546	35.34423	2.91805	0.2574256	0.28838771	2.2689150	21	2 6.4	19.7
137520 1999 VP_{44}	16.7	X	339.87423	82.27149	335.76100	5.29486	0.1914641	0.27280404	2.3545189	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137521 1999 VZ_{46}	16.4	X	141.42803	111.67318	215.63088	7.87329	0.1644386	0.28351834	2.2948199	21	—	—
137522 1999 VD_{48}	16.3	X	78.12494	64.01990	355.01430	9.74732	0.1499239	0.28492940	2.2872372	21	—	—
137523 1999 VJ_{49}	16.2	X	339.26527	146.86677	249.38189	5.24431	0.1110373	0.26952706	2.3735650	21	11 18.6	18.5
137524 1999 VM_{49}	17.0	X	336.04058	146.98668	238.29243	5.86546	0.2430263	0.26854890	2.3793251	21	10 31.5	18.4
137525 1999 VM_{50}	17.0	X	2.73463	81.35765	314.88720	1.34035	0.2150464	0.27217594	2.3581399	21	—	—
137526 1999 VB_{51}	16.5	X	69.56798	341.03734	348.28815	4.24649	0.1623588	0.27499173	2.3420147	21	—	—
137527 1999 VA_{52}	16.4	X	347.01990	191.25363	293.24731	1.14434	0.1760023	0.27869976	2.3211951	21	—	—
137528 1999 VP_{54}	16.2	X	98.24990	115.82491	204.84858	2.11597	0.1435456	0.27764481	2.3270712	21	—	—
137529 1999 VR_{54}	16.8	X	326.08264	44.69436	43.36442	2.99838	0.1782703	0.27322872	2.3520785	21	—	—
137530 1999 VH_{58}	15.5	X	357.58930	223.50969	227.31595	11.81296	0.1570017	0.27656440	2.3331278	21	—	—
137531 1999 VX_{58}	16.4	X	72.79898	354.19828	46.65017	7.04335	0.1361438	0.28147374	2.3059194	21	—	—
137532 1999 VL_{59}	14.3	X	308.07562	106.67444	260.10440	1.51407	0.0936889	0.12454624	3.9711439	21	8 1.6	19.6
137533 1999 VQ_{61}	16.5	X	106.58173	82.78147	230.97433	2.68038	0.1598349	0.27764133	2.3270906	21	—	—
137534 1999 VT_{61}	16.5	X	34.68542	204.37075	227.46749	6.51123	0.0645124	0.28070851	2.3101083	21	—	—
137535 1999 VE_{62}	16.8	X	264.55961	211.06381	226.24944	0.54844	0.1561818	0.26371978	2.4082834	21	9 1.8	19.9
137536 1999 VC_{63}	17.0	X	20.25061	345.73567	51.41019	4.86622	0.1922362	0.27496805	2.3421492	21	—	—
137537 1999 VR_{66}	16.8	X	335.33356	168.81717	223.68212	5.55712	0.1205620	0.26835813	2.3804526	21	11 6.1	18.9
137538 1999 VJ_{67}	16.7	X	315.52626	246.25451	217.16690	1.87038	0.1209685	0.27305567	2.3530722	21	—	—
137539 1999 VD_{69}	16.7	X	333.69108	299.25475	191.44073	2.05054	0.1628974	0.27884349	2.3203974	21	—	—
137540 1999 VE_{69}	17.1	X	78.70826	315.32371	60.36836	2.93290	0.1140910	0.28036548	2.3119921	21	—	—
137541 1999 VN_{70}	17.1	X	37.93271	307.76874	106.12653	0.83464	0.1989160	0.27831018	2.3233608	21	—	—
137542 1999 VQ_{70}	16.7	X	58.07699	302.19979	56.91070	4.08012	0.1476095	0.27572024	2.3378876	21	—	—
137543 1999 VW_{70}	17.0	X	124.09088	129.68050	214.72110	3.49673	0.2351866	0.28333659	2.2958012	21	—	—
137544 1999 VG_{72}	16.2	X	16.22216	146.29603	251.27977	2.79244	0.2113054	0.27321676	2.3521472	21	—	—
137545 1999 VP_{75}	16.7	X	124.14613	25.71029	220.41080	5.25184	0.0913069	0.26838463	2.3802959	21	11 10.9	20.2
137546 1999 VY_{76}	17.3	X	120.88834	234.24753	81.78143	3.79892	0.1926462	0.27869786	2.3212057	21	—	—
137547 1999 VZ_{76}	17.1	X	125.15869	80.18037	162.42312	2.14225	0.1524251	0.26749503	2.3855704	21	11 10.3	20.8
137548 1999 VE_{77}	15.9	X	207.88603	72.50467	75.27749	5.63917	0.1513083	0.26335327	2.4105172	21	10 2.9	19.6
137549 1999 VW_{77}	16.9	X	44.74333	5.16542	30.00664	3.38741	0.2178080	0.27737177	2.3285981	21	—	—
137550 1999 VV_{78}	16.1	X	63.88574	301.88331	33.74974	7.55200	0.1434315	0.27502456	2.3418284	21	—	—
137551 1999 VL_{84}	16.4	X	248.60350	308.55408	229.14055	2.82036	0.0651296	0.27525025	2.3405481	21	—	—
137552 1999 VG_{85}	16.2	X	212.62235	24.61537	223.55242	6.00819	0.0793127	0.28028265	2.3124476	21	—	—
137553 1999 VY_{85}	16.5	X	327.88134	34.82426	26.20154	4.87326	0.1427683	0.27089784	2.3655512	21	12 5.4	18.5
137554 1999 VA_{86}	16.6	X	53.52973	310.34809	30.10594	5.66227	0.2521237	0.27511401	2.3413207	21	—	—
137555 1999 VE_{86}	15.9	X	253.28857	116.68865	10.20421	2.59338	0.1429372	0.26849992	2.3796145	21	10 27.7	18.7
137556 1999 VA_{89}	16.6	X	182.76163	279.87621	186.95594	1.79581	0.1025810	0.30255620	2.1975158	21	7 13.4	19.7
137557 1999 VH_{89}	17.1	X	323.28580	239.52631	198.85868	1.71246	0.1653560	0.27141958	2.3625188	21	12 24.5	18.8
137558 1999 VY_{89}	16.3	X	347.73915	54.02440	18.57411	6.77039	0.0939493	0.27654068	2.3332612	21	—	—
137559 1999 VE_{90}	16.9	X	104.74515	127.35631	203.02592	0.79178	0.2439011	0.28132690	2.3067217	21	—	—
137560 1999 VL_{92}	16.4	X	86.69612	318.79318	27.16255	6.90865	0.1357572	0.28023042	2.3127350	21	—	—
137561 1999 VH_{94}	16.3	X	113.59157	115.67422	203.41768	3.14245	0.2405380	0.28126716	2.3070484	21	—	—
137562 1999 VX_{95}	16.7	X	325.42332	43.31363	32.42433	2.54248	0.1788094	0.27231758	2.3573221	21	12 26.4	18.4
137563 1999 VB_{96}	17.0	X	201.07487	132.95484	196.54201	3.07442	0.0454844	0.29042571	2.2582881	21	1 25.4	20.0
137564 1999 VD_{100}	16.9	X	49.17205	297.34910	44.94917	4.42040	0.2216201	0.27373774	2.3491618	21	—	—
137565 1999 VW_{101}	16.3	X	98.70430	235.42504	55.75107	11.04827	0.1537120	0.27243666	2.3566351	21	12 14.7	19.9
137566 1999 VO_{104}	17.0	X	108.44848	294.35064	52.41258	7.22891	0.1362967	0.28069472	2.3101839	21	—	—
137567 1999 VZ_{104}	16.7	X	284.59748	285.48133	215.17551	1.80445	0.1646444	0.27262250	2.3555641	21	—	—
137568 1999 VW_{106}	16.6	X	110.09868	98.50343	227.97264	6.96916	0.1342372	0.27777865	2.3263237	21	—	—
137569 1999 VJ_{108}	16.7	X	278.81869	214.70210	224.62683	3.70536	0.1621417	0.26466905	2.4025215	21	9 24.1	19.2
137570 1999 VF_{109}	16.6	X	287.80497	249.10609	237.48656	4.47980	0.0600832	0.27171310	2.3608171	21	12 31.8	19.3
137571 1999 VT_{110}	17.3	X	22.63821	241.16800	228.87361	5.75416	0.1371237	0.28120350	2.3073965	21	—	—
137572 1999 VC_{112}	17.0	X	148.52715	43.13830	76.09160	2.10664	0.0502807	0.29836942	2.2180254	21	6 16.9	19.5
137573 1999 VR_{113}	16.3	X	224.52618	40.75123	317.71410	2.89284	0.2016462	0.29702196	2.2247284	21	3 28.6	19.8
137574 1999 VF_{120}	16.4	X	23.66943	318.50883	39.95224	5.76492	0.1608535	0.27360570	2.3499175	21	12 17.3	19.1
137575 1999 VT_{121}	16.9	X	356.42838	73.17690	40.18025	5.70099	0.1704783	0.27982507	2.3149679	21	—	—
137576 1999 VZ_{123}	16.9	X	12.49569	153.11769	164.20994	2.05910	0.2065575	0.26523412	2.3991079	21	10 5.8	18.8
137577 1999 VW_{125}	16.5	X	186.63397	135.02989	54.88177	2.95292	0.1566200	0.26790898	2.3831124	21	11 1.7	20.2
137578 1999 VN_{127}	17.3	X	53.98670	351.36299	55.96904	3.10823	0.1525346	0.28152662	2.3056307	21	—	—
137579 1999 VH_{130}	17.2	X	80.20574	3.31342	39.81306	2.98653	0.1039308	0.28491350	2.2873223	21	—	—
137580 1999 VO_{136}	16.2	X	2.34629	7.52757	56.61057	6.72714	0.1511344	0.27357484	2.3500942	21	—	—
137581 1999 VV_{137}	16.5	X	242.59584	125.95084	290.10308	1.04377	0.1498238	0.30307289	2.1950175	21	7 7.6	19.2
137582 1999 VE_{139}	16.7	X	232.23500	65.17996	102.37314	3.23534	0.1350968	0.26953939	2.3734926	21	11 26.1	19.7
137583 1999 VE_{141}	16.3	X	144.88943	298.92925	38.66305	7.09361	0.1727543	0.28499417	2.2868907	21	—	—
137584 1999 VK_{142}	17.0	X	290.59605	252.56231	159.97313	1.56569	0.1698920	0.26410532	2.4059390	21	9 4.4	19.3
137585 1999 VJ_{145}	17.1	X	87.22478	220.64244	201.68007	5.11124	0.2166649	0.28656701	2.2785152	21	1 20.9	19.0
137586 1999 VS_{145}	16.9	X	193.36389	350.36918	155.38835	0.96134	0.0958419	0.26181271	2.4199640	21	9 15.9	20.2
137587 1999 VU_{146}	16.5	X	262.07258	113.27625	21.05758	1.55213	0.1297073	0.26949338	2.3737628	21	11 22.6	18.9
137588 1999 VN_{147}	17.1	X	69.68326	206.31263	193.96233	1.46031	0.2056024	0.28082209	2.3094853	21	—	—
137589 1999 VR_{149}	16.6	X	30.98281	311.62530	31.87152	3.45489	0.1707042	0.27068055	2.3668170	21	12 8.2	19.4
137590 1999 VF_{151}	17.1	X	27.76000	150.34386	276.31185	1.59832	0.1763508	0.27772110	2.3266450	21	—	—
137591 1999 VN_{153}	16.8	X	321.38184	150.35444	201.46004	2.97021	0.1819763	0.26249704	2.4157563	21	7 27.9	18.9
137592 1999 VU_{153}	17.1	X	314.46357	73.66713	46.94891	5.62576	0.1575139	0.27504100	2.3417350	21	—	—
137593 1999 VM_{158}	16.3	X	25.56722	120.76329	238.50305	5.58602	0.1437536	0.27190209	2.3597230	21	12 18.4	19.0
137594 1999 VA_{161}	16.0	X	183.05133	115.42205	44.64714	3.41690	0.1409160	0.26204624	2.4185260	21	9 22.6	19.8
137595 1999 VP_{161}	16.9	X	312.32637	38.56254	344.60819	2.03496	0.2047681	0.26491085	2.4010593	21	8 26.7	18.7
137596 1999 VV_{161}	16.6	X	6.56891	13.74650	29.85481	6.49291	0.1012665	0.27351882	2.3504151	21	—	—
137597 1999 VW_{161}	16.6	X	38.71915	332.61967	22.21667	4.57612	0.2699364	0.27415045	2.3468036	21	—	—
137598 1999 VA_{164}	16.1	X	254.70515	137.47548	7.94226	2.77598	0.1079115	0.27076842	2.3663049	21	11 30.4	18.9
137599 1999 VN_{164}	16.3	X	277.74236	178.42186	240.29815	6.44417	0.1057372	0.26351129	2.4095535	21	8 30.7	19.3
137600 1999 VJ_{169}	17.2	X	345.12200	135.26194	315.64391	1.62558	0.1745027	0.27413290	2.3469037	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137601 1999 VO_{170}	17.3	X	339.68074	53.23737	41.36697	2.51971	0.1805680	0.27359810	2.3499611	21	—	—
137602 1999 VF_{171}	16.4	X	39.41104	328.75268	44.31637	5.14202	0.1837227	0.27366796	2.3495611	21	—	—
137603 1999 VJ_{171}	16.7	X	151.92599	59.64649	265.23504	4.14767	0.2519080	0.28438133	2.2901750	21	—	—
137604 1999 VP_{173}	16.9	X	81.82808	338.45015	66.39020	6.26787	0.1543506	0.28318035	2.2966455	21	—	—
137605 1999 VK_{174}	13.8	X	327.81584	46.82607	87.02122	24.22989	0.2510115	0.27852849	2.3221466	21	—	—
137606 1999 VJ_{175}	16.8	X	57.80765	83.41786	263.18211	2.48147	0.2052035	0.27623695	2.3349712	21	—	—
137607 1999 VC_{176}	16.3	X	118.30175	217.39159	116.93369	4.58645	0.2568988	0.28341445	2.2953807	21	—	—
137608 1999 VZ_{176}	16.6	X	298.83771	270.60014	175.07040	5.90582	0.1666140	0.26946940	2.3739036	21	11 13.4	18.6
137609 1999 VF_{180}	16.5	X	90.95962	10.32443	69.70766	7.27887	0.1404622	0.28858525	2.2678794	21	2 15.9	18.8
137610 1999 VB_{183}	16.9	X	171.63903	246.55998	242.91395	1.35538	0.1625750	0.25595890	2.4567213	21	7 31.2	20.8
137611 1999 VU_{183}	16.7	X	28.23944	345.49121	69.24410	5.72830	0.1957960	0.27597072	2.3364727	21	—	—
137612 1999 VQ_{187}	16.1	X	239.42993	39.64230	87.93671	4.95637	0.0986913	0.26625033	2.3929995	21	10 19.5	19.2
137613 1999 VW_{188}	16.8	X	4.50248	218.41905	163.85019	2.52547	0.2409898	0.27128700	2.3632884	21	—	—
137614 1999 VN_{189}	16.3	X	93.24972	141.13378	232.58766	7.58667	0.2227055	0.28116114	2.3076283	21	—	—
137615 1999 VR_{191}	16.6	X	300.17088	124.69824	59.13480	4.06571	0.1000563	0.28105726	2.3081968	21	—	—
137616 1999 VJ_{192}	16.0	X	341.61529	134.18071	335.56350	6.59957	0.2040476	0.27729408	2.3290331	21	—	—
137617 1999 VJ_{195}	15.9	X	329.53635	209.48109	184.62351	6.19756	0.1213772	0.26885382	2.3775258	21	10 29.8	18.1
137618 1999 VT_{197}	16.3	X	75.81269	325.59053	102.57772	4.78630	0.1172753	0.28564510	2.2834151	21	—	—
137619 1999 VG_{204}	17.0	X	82.67176	90.96815	25.60749	5.74162	0.0500464	0.29457453	2.2370340	21	3 12.1	19.4
137620 1999 VD_{207}	16.3	X	250.17776	125.19799	9.92351	2.10595	0.1566847	0.26859266	2.3790667	21	11 1.6	19.3
137621 1999 VL_{207}	17.1	X	5.73497	305.72437	232.92493	1.68495	0.0704685	0.28963001	2.2624223	21	2 3.6	19.6
137622 1999 VR_{207}	16.3	X	129.37881	26.34199	241.27951	4.96682	0.0859902	0.27424203	2.3462811	21	12 14.7	19.5
137623 1999 VB_{211}	16.6	X	292.28910	273.45234	155.18939	6.67090	0.2509023	0.26580283	2.3956846	21	9 19.2	18.8
137624 1999 VQ_{213}	16.2	X	331.72497	229.34897	142.92636	3.41955	0.2120810	0.26718351	2.3874243	21	9 27.4	17.6
137625 1999 VT_{219}	16.3	X	116.32394	217.92087	178.68760	6.63776	0.1561204	0.28715317	2.2754133	21	1 22.8	18.9
137626 1999 VG_{220}	16.9	X	166.60851	257.34352	355.34859	5.43556	0.1362863	0.28094780	2.3087963	21	—	—
137627 1999 VS_{220}	17.0	X	33.26781	99.54121	328.39470	2.65871	0.1476552	0.27928012	2.3179783	21	—	—
137628 1999 VH_{222}	17.4	X	148.78628	306.26576	319.27971	1.72727	0.1872475	0.27760104	2.3273158	21	12 30.2	21.2
137629 1999 VN_{226}	14.0	X	130.03887	127.84080	264.40870	16.56007	0.1539459	0.15465532	3.4373688	21	2 18.7	19.5
137630 1999 WV	16.2	X	179.76457	151.80598	267.85791	5.11447	0.1777411	0.29569311	2.2313888	21	5 6.7	19.6
137631 1999 WU_{1}	16.0	X	131.60838	316.66550	61.44704	9.43919	0.1787643	0.28738443	2.2741925	21	1 25.9	19.0
137632 Ramsauer	17.1	X	72.45732	213.64032	169.16334	1.68762	0.2104326	0.28172464	2.3045501	21	—	—
137633 1999 WR_{2}	16.6	X	349.09251	57.65948	328.04153	1.82705	0.1986476	0.26935165	2.3745954	21	11 30.9	18.6
137634 1999 WF_{5}	16.4	X	154.88930	309.97640	35.00237	7.74730	0.2609616	0.28942552	2.2634879	21	1 18.5	19.8
137635 1999 WD_{8}	16.5	X	337.07011	30.00690	74.57036	5.39524	0.1781588	0.27469682	2.3436907	21	—	—
137636 1999 WS_{8}	16.2	X	229.82200	231.11489	121.55284	5.70820	0.1386445	0.29543062	2.2327103	21	4 1.4	19.5
137637 1999 WS_{10}	17.2	X	294.93697	307.65493	232.48078	6.33769	0.1634078	0.27843696	2.3226555	21	—	—
137638 1999 WS_{11}	16.3	X	198.95991	303.36361	34.48929	4.53020	0.1558026	0.29356659	2.2421516	21	2 10.8	19.7
137639 1999 WC_{12}	17.2	X	96.65552	233.68376	87.77223	3.02160	0.2366364	0.27540443	2.3396745	21	—	—
137640 1999 WW_{12}	16.7	X	287.10689	112.22422	86.03840	3.35512	0.1666203	0.28010184	2.3134427	21	—	—
137641 1999 WE_{13}	16.7	X	62.73400	95.08535	241.30811	3.11202	0.1308014	0.27405408	2.3473537	21	—	—
137642 1999 WU_{14}	17.2	X	259.49758	107.30612	69.45925	2.15089	0.0887193	0.27504842	2.3416930	21	—	—
137643 1999 WC_{15}	17.4	X	92.46672	122.59025	202.65115	1.47773	0.2255817	0.27945817	2.3169936	21	—	—
137644 1999 WJ_{15}	16.3	X	86.38823	71.58685	228.78486	2.79726	0.1964006	0.27361067	2.3498891	21	12 18.6	19.9
137645 1999 WZ_{15}	16.1	X	53.27786	232.53130	58.86284	7.04396	0.2329998	0.26841727	2.3801030	21	11 7.7	19.2
137646 1999 WB_{16}	16.6	X	180.49127	89.92776	75.26789	2.28516	0.1251331	0.26355704	2.4092746	21	9 27.2	20.1
137647 1999 WR_{16}	17.2	X	73.71171	159.58467	240.14552	1.78851	0.1581397	0.28346654	2.2950995	21	—	—
137648 1999 WF_{19}	17.0	X	21.07132	176.50129	243.91441	1.15942	0.1555424	0.27707007	2.3302882	21	—	—
137649 1999 WJ_{20}	17.2	X	315.56744	67.25304	346.24559	2.78049	0.1902976	0.26780237	2.3837449	21	10 24.6	18.9
137650 1999 WZ_{24}	16.5	X	76.48897	261.68871	75.55684	10.15243	0.0589955	0.27364667	2.3496830	21	—	—
137651 1999 WG_{25}	16.8	X	186.52156	45.16401	223.90725	1.24337	0.1799881	0.27977606	2.3152382	21	—	—
137652 1999 WJ_{25}	16.8	X	251.15529	337.33693	237.46118	4.00796	0.0973770	0.27903431	2.3193394	21	—	—
137653 1999 XY	15.1	X	325.07171	175.52385	273.51453	4.46189	0.1993555	0.27020512	2.3695925	21	—	—
137654 1999 XP_{2}	17.1	X	297.48415	76.11223	83.60979	3.25063	0.1485672	0.27630364	2.3345955	21	—	—
137655 1999 XE_{3}	15.3	X	232.06685	322.27812	212.76551	6.29742	0.0618277	0.27164227	2.3612274	21	12 16.9	18.2
137656 1999 XU_{6}	16.5	X	339.93766	79.99373	312.14886	1.49864	0.2039642	0.26855848	2.3792686	21	11 20.3	18.2
137657 1999 XZ_{8}	15.5	X	61.64106	338.72193	69.59018	26.04313	0.2313898	0.28095937	2.3087330	21	—	—
137658 1999 XZ_{9}	16.7	X	354.28005	317.57402	76.48963	5.46435	0.2198138	0.27080509	2.3660913	21	12 28.8	18.7
137659 1999 XD_{12}	16.2	X	24.64152	110.92188	326.62119	6.75716	0.2536810	0.27840594	2.3228280	21	—	—
137660 1999 XO_{12}	15.7	X	259.00107	167.49602	250.76120	11.96072	0.1806558	0.25793392	2.4441644	21	7 22.3	19.3
137661 1999 XF_{15}	15.5	X	50.10282	159.30661	309.33521	24.55822	0.2649656	0.27982540	2.3149660	21	1 16.1	16.6
137662 1999 XJ_{16}	15.7	X	98.98219	145.42195	251.35873	23.92998	0.1701078	0.28374100	2.2936192	21	—	—
137663 1999 XH_{19}	16.1	X	138.18425	300.18379	47.71041	7.39251	0.1388413	0.28687577	2.2768799	21	—	—
137664 1999 XJ_{22}	16.4	X	46.39310	160.28691	205.46806	4.29690	0.2269674	0.27577833	2.3375592	21	—	—
137665 1999 XR_{24}	16.9	X	19.08959	321.49434	91.30580	3.27833	0.2291213	0.27587520	2.3370120	21	—	—
137666 1999 XG_{25}	15.3	X	102.65697	333.18785	70.56173	11.34117	0.1152518	0.28529271	2.2852950	21	1 7.5	17.7
137667 1999 XW_{25}	16.8	X	78.52171	306.78692	78.66531	5.65868	0.1552211	0.28030096	2.3123469	21	—	—
137668 1999 XK_{28}	16.5	X	27.00457	321.04052	91.73253	3.66844	0.1569678	0.27630680	2.3345777	21	—	—
137669 1999 XX_{28}	16.9	X	42.16123	222.80467	189.41262	2.31651	0.1675041	0.27801237	2.3250197	21	—	—
137670 1999 XE_{33}	15.9	X	244.82956	36.65060	92.10610	2.20649	0.1259515	0.26105229	2.4246611	21	10 21.9	19.1
137671 1999 XP_{35}	18.5	X	190.94972	198.26986	263.46423	21.10337	0.1841853	0.57355023	1.4346801	21	7 11.3	19.8
137672 1999 XP_{40}	15.6	X	10.39183	112.74519	54.17651	23.93840	0.2309397	0.28613442	2.2808111	21	1 2.3	18.1
137673 1999 XX_{40}	16.5	X	120.04737	349.48387	41.69796	4.00488	0.1652126	0.28672540	2.2776760	21	1 25.0	19.1
137674 1999 XA_{42}	17.2	X	341.29321	60.81330	45.88838	0.47709	0.2868550	0.27512515	2.3412575	21	—	—
137675 1999 XF_{42}	16.4	X	323.29999	143.72571	330.68947	1.83237	0.1502368	0.27481445	2.3430219	21	—	—
137676 1999 XH_{42}	16.3	X	333.83401	132.70008	308.23428	1.67372	0.1825245	0.27251213	2.3562000	21	—	—
137677 1999 XA_{44}	16.8	X	36.91915	333.83005	29.00218	3.02043	0.2389386	0.27396796	2.3478456	21	—	—
137678 1999 XW_{44}	16.4	X	10.69679	194.35398	246.44372	4.91760	0.1436721	0.27720589	2.3295270	21	—	—
137679 1999 XC_{45}	16.4	X	71.55457	286.85619	58.44630	3.12950	0.2327197	0.27655659	2.3331717	21	—	—
137680 1999 XW_{45}	16.8	X	266.25316	139.52557	327.00092	1.60380	0.1655619	0.26608022	2.3940193	21	10 13.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137681 1999 XT_{46}	16.8	X	37.53820	156.04238	239.08147	6.10019	0.1090590	0.27579940	2.3374402	21	—	—
137682 1999 XD_{48}	16.5	X	333.48871	16.61828	78.27082	6.14180	0.1944743	0.27329521	2.3516970	21	—	—
137683 1999 XS_{50}	17.0	X	347.89461	279.69998	109.15511	2.12196	0.1961121	0.26923881	2.3752588	21	12 3.6	18.7
137684 1999 XH_{51}	17.4	X	317.46514	231.40281	212.68580	0.61839	0.1604076	0.27019304	2.3696632	21	12 20.1	19.3
137685 1999 XT_{51}	16.8	X	32.52376	295.28983	67.30299	3.27813	0.2363182	0.27283416	2.3543456	21	—	—
137686 1999 XA_{52}	16.2	X	166.98297	90.77279	285.87938	1.57812	0.2163641	0.24531238	2.5272977	21	3 8.3	20.2
137687 1999 XV_{55}	16.2	X	278.27167	188.16934	255.78347	7.85236	0.2123863	0.26445790	2.4038001	21	9 18.0	19.1
137688 1999 XF_{59}	16.4	X	350.96355	300.22201	62.17143	2.95058	0.1875446	0.26654007	2.3912650	21	10 28.1	18.2
137689 1999 XB_{60}	17.4	X	317.16038	237.57708	182.78465	0.73653	0.1780164	0.26755153	2.3852345	21	11 10.8	19.3
137690 1999 XW_{61}	16.7	X	58.77368	83.80601	30.48934	2.62251	0.1445247	0.28665494	2.2780492	21	2 5.3	18.4
137691 1999 XC_{62}	16.4	X	62.65222	240.28990	120.70445	1.73775	0.2200334	0.27648780	2.3335587	21	—	—
137692 1999 XU_{62}	16.3	X	8.84448	337.19551	60.20124	5.24435	0.1051712	0.22630039	2.6669355	21	12 27.7	19.5
137693 1999 XG_{63}	17.3	X	356.12686	333.10953	77.28904	2.63092	0.1789190	0.27170549	2.3608611	21	—	—
137694 1999 XW_{64}	16.9	X	57.21438	164.15087	235.85561	2.35071	0.1712887	0.27832903	2.3232559	21	—	—
137695 1999 XT_{68}	16.8	X	172.28739	264.30422	154.94290	0.90026	0.2044998	0.29478301	2.2359792	21	5 1.9	20.3
137696 1999 XA_{69}	16.8	X	221.02054	235.99886	245.96023	1.69095	0.1508404	0.26052423	2.4279364	21	9 8.9	20.4
137697 1999 XM_{69}	16.6	X	24.82656	157.89866	255.42213	5.41373	0.1932241	0.27522356	2.3406994	21	—	—
137698 1999 XR_{69}	16.5	X	335.14609	325.31747	81.70825	6.24966	0.1442279	0.26808475	2.3820707	21	11 29.4	18.6
137699 1999 XE_{72}	15.7	X	324.31117	6.56191	80.24251	10.80181	0.1415017	0.27045939	2.3681071	21	—	—
137700 1999 XV_{72}	16.9	X	321.06027	187.53999	180.98769	0.91419	0.1693149	0.26238340	2.4164537	21	8 26.3	18.8
137701 1999 XR_{73}	16.3	X	202.69694	301.47625	81.98082	3.96502	0.1792366	0.29483937	2.2356942	21	4 13.8	19.8
137702 1999 XZ_{75}	15.8	X	145.34487	166.86015	244.53026	3.03041	0.1610684	0.28980344	2.2615196	21	3 20.8	18.9
137703 1999 XE_{78}	16.0	X	327.89485	29.22206	69.15069	3.01301	0.1782396	0.27238158	2.3569528	21	—	—
137704 1999 XV_{78}	16.4	X	255.62789	234.14061	83.49301	6.75876	0.2129849	0.29488441	2.2354665	21	3 8.7	20.0
137705 1999 XL_{81}	16.4	X	321.56470	330.74490	85.80219	6.53848	0.0695237	0.26657526	2.3910546	21	11 17.3	19.0
137706 1999 XB_{83}	16.8	X	8.79815	305.67212	96.91236	3.37785	0.2155550	0.27137114	2.3627999	21	—	—
137707 1999 XJ_{83}	15.8	X	3.41730	330.83085	87.01666	3.25821	0.1890863	0.27176253	2.3605308	21	—	—
137708 1999 XK_{89}	16.3	X	70.76535	337.73652	99.25692	6.93343	0.0794426	0.28126545	2.3070577	21	—	—
137709 1999 XX_{89}	15.9	X	287.22586	144.45467	258.33055	4.83346	0.2073726	0.26027883	2.4294622	21	8 6.2	18.6
137710 1999 XH_{93}	15.5	X	6.13515	341.17352	105.31320	5.84321	0.2088917	0.27387650	2.3483683	21	—	—
137711 1999 XJ_{96}	15.7	X	64.34567	135.21269	271.25016	3.13204	0.1645822	0.27967687	2.3157856	21	—	—
137712 1999 XU_{96}	16.8	X	123.73881	39.33542	24.68358	1.72326	0.2079142	0.28888487	2.2663111	21	3 20.9	19.6
137713 1999 XX_{96}	15.9	X	341.90212	9.59033	72.27618	9.92019	0.1271441	0.27237579	2.3569862	21	—	—
137714 1999 XY_{96}	16.5	X	354.67352	336.23949	69.77316	8.43205	0.1940208	0.27076620	2.3663178	21	—	—
137715 1999 XA_{98}	15.8	X	337.81429	1.55550	75.49691	2.84940	0.1744470	0.27119416	2.3638277	21	—	—
137716 1999 XG_{98}	16.4	X	325.40492	328.01550	76.35309	3.18869	0.2063147	0.26668337	2.3904083	21	11 4.5	17.8
137717 1999 XT_{101}	16.1	X	339.82435	91.76021	326.75019	2.55472	0.2226967	0.26865701	2.3786868	21	—	—
137718 1999 XA_{102}	16.2	X	14.69507	118.71236	302.72444	3.51122	0.2246325	0.27323492	2.3520429	21	—	—
137719 1999 XS_{102}	16.8	X	279.24670	3.31627	68.18815	3.47406	0.1890376	0.26177602	2.4201900	21	9 12.1	19.6
137720 1999 XU_{102}	16.1	X	209.77952	57.22424	57.97970	3.11217	0.1611762	0.25659172	2.4526804	21	8 20.6	19.9
137721 1999 XW_{103}	16.4	X	1.76851	345.53086	70.77389	4.01822	0.1757732	0.27084352	2.3658675	21	—	—
137722 1999 XN_{104}	16.0	X	135.11902	119.65368	264.85990	23.56112	0.3031038	0.28730298	2.2746223	21	2 9.4	19.9
137723 1999 XR_{107}	15.8	X	6.19157	30.71499	35.98328	7.70903	0.1947847	0.27574556	2.3377444	21	—	—
137724 1999 XW_{111}	16.8	X	37.83043	356.58122	58.05605	3.62129	0.1418119	0.27718753	2.3296299	21	—	—
137725 1999 XY_{111}	16.9	X	350.19408	102.40601	307.39689	0.66653	0.1815357	0.27085632	2.3657929	21	—	—
137726 1999 XL_{115}	16.5	X	160.61243	158.30223	263.85460	5.66423	0.1717061	0.29414625	2.2392049	21	4 20.3	19.9
137727 1999 XG_{117}	16.0	X	246.64124	56.49389	282.56141	4.94121	0.2127844	0.29817929	2.2189681	21	3 21.3	19.6
137728 1999 XP_{117}	16.5	X	48.72436	337.10760	29.32147	7.25073	0.1801001	0.27533939	2.3400429	21	—	—
137729 1999 XW_{118}	17.0	X	23.00215	336.30241	56.22058	3.32290	0.2264319	0.27438962	2.3454396	21	—	—
137730 1999 XR_{121}	16.4	X	95.89482	351.58824	23.74586	3.42175	0.1643721	0.28124390	2.3071755	21	—	—
137731 1999 XW_{121}	16.1	X	89.03455	72.01907	304.59600	5.48092	0.1515564	0.28167752	2.3048071	21	—	—
137732 1999 XY_{121}	16.5	X	72.05607	99.74533	304.65225	4.76709	0.1576389	0.28201253	2.3029815	21	—	—
137733 1999 XG_{122}	14.9	X	218.35518	269.53932	253.87722	21.22227	0.1895947	0.26758155	2.3850561	21	10 23.4	18.7
137734 1999 XC_{123}	15.9	X	68.87713	63.66959	303.17906	6.34387	0.1441261	0.27775648	2.3264474	21	—	—
137735 1999 XF_{124}	15.9	X	315.56074	138.56463	334.62280	4.61865	0.1880345	0.27312649	2.3526654	21	—	—
137736 1999 XX_{125}	16.2	X	280.86461	61.28248	19.01965	6.28163	0.1034984	0.26536727	2.3983054	21	10 10.2	18.9
137737 1999 XD_{128}	17.1	X	347.66562	27.04281	46.68500	2.85154	0.1810331	0.27263500	2.3554920	21	—	—
137738 1999 XK_{130}	15.7	X	180.74460	98.11694	48.80089	9.08707	0.1735582	0.25763588	2.4460490	21	9 5.4	19.7
137739 1999 XO_{130}	16.0	X	202.14242	126.38910	39.79332	10.06895	0.2318436	0.26310765	2.4120172	21	10 13.5	19.8
137740 1999 XN_{131}	16.7	X	33.97285	307.98531	64.85013	7.70690	0.1476577	0.27260035	2.3556917	21	—	—
137741 1999 XA_{135}	15.4	X	250.46042	87.20034	90.19315	24.43510	0.2030438	0.27017847	2.3697483	21	12 23.1	17.8
137742 1999 XH_{136}	15.5	X	350.05174	65.55848	36.89639	23.62997	0.2575074	0.27209807	2.3585898	21	—	—
137743 1999 XE_{138}	16.9	X	331.01631	168.69984	239.36510	6.30402	0.1029248	0.26862238	2.3788913	21	11 20.7	19.3
137744 1999 XU_{138}	16.3	X	285.40337	47.34623	93.57384	7.58143	0.0551026	0.26937267	2.3744719	21	—	—
137745 1999 XY_{141}	15.3	X	229.95274	235.85387	270.49596	21.83744	0.2883109	0.26403205	2.4063841	21	9 24.9	19.7
137746 1999 XP_{153}	16.5	X	35.44647	226.38403	243.25329	5.58432	0.1945451	0.27891257	2.3200143	21	—	—
137747 1999 XC_{154}	15.8	X	266.90623	34.94651	108.81357	5.80889	0.1684507	0.26842554	2.3800541	21	12 8.2	18.3
137748 1999 XQ_{154}	16.8	X	252.35692	335.42001	132.65195	2.97249	0.1559072	0.26325707	2.4111045	21	9 29.6	19.9
137749 1999 XR_{154}	16.7	X	32.07110	316.91700	109.52899	4.54606	0.2120977	0.27739110	2.3284899	21	—	—
137750 1999 XB_{157}	15.9	X	97.01510	244.68049	230.91863	5.47298	0.1000810	0.29008502	2.2600559	21	4 6.7	18.3
137751 1999 XB_{159}	16.3	X	120.12587	290.72267	224.69451	3.42332	0.0854679	0.29699958	2.2248402	21	7 5.4	19.0
137752 1999 XU_{160}	16.7	X	282.81083	207.72423	260.11931	7.40892	0.2273477	0.26535572	2.3983750	21	10 31.7	19.2
137753 1999 XP_{161}	16.0	X	306.21892	93.40195	57.06318	6.54545	0.1366407	0.27531435	2.3401848	21	—	—
137754 1999 XY_{162}	16.0	X	306.73764	138.99657	111.90223	7.84588	0.1081516	0.23960321	2.5672862	21	2 24.5	19.5
137755 1999 XB_{164}	16.6	X	331.93728	281.69755	163.79637	2.29500	0.1715558	0.27134272	2.3629649	21	—	—
137756 1999 XZ_{166}	15.4	X	87.98488	123.08500	310.41427	5.77932	0.1249227	0.28587289	2.2822020	21	1 27.0	17.3
137757 1999 XK_{171}	16.5	X	332.06330	71.78223	342.05087	2.55789	0.1920180	0.26708533	2.3880094	21	12 5.1	18.2
137758 1999 XH_{173}	15.3	X	77.05586	24.59244	35.69724	5.67699	0.1446585	0.28030134	2.3123448	21	—	—
137759 1999 XM_{173}	16.1	X	75.94112	29.97644	61.65591	6.10790	0.1540948	0.28326536	2.2961860	21	2 8.6	18.2
137760 1999 XF_{176}	15.9	X	96.73895	341.41650	67.23521	7.15348	0.2117509	0.28162637	2.3050862	21	1 22.6	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137761 1999 XG_{177}	14.9	X	122.89786	65.00666	74.12889	12.93461	0.0531009	0.24699387	2.5158144	21	6 12.4	18.3
137762 1999 XM_{179}	15.9	X	184.19590	46.49710	68.75615	8.64275	0.1571206	0.25181522	2.4835985	21	7 26.9	19.9
137763 1999 XW_{179}	16.0	X	63.23153	326.11372	52.47711	4.59518	0.1605402	0.27414795	2.3468179	21	—	—
137764 1999 XX_{179}	16.1	X	290.50739	101.22608	342.22620	5.96645	0.0803206	0.26373369	2.4081986	21	10 30.3	18.9
137765 1999 XT_{182}	15.9	X	95.55022	33.71377	9.54628	7.37008	0.1682255	0.28353969	2.2947047	21	1 3.9	18.2
137766 1999 XM_{184}	15.2	X	150.37144	29.16203	41.48315	8.98256	0.2011571	0.20173888	2.8792297	21	5 1.6	19.9
137767 1999 XG_{186}	16.1	X	128.39007	32.60426	336.92712	5.12744	0.1822662	0.28413318	2.2915082	21	1 9.8	18.8
137768 1999 XU_{187}	15.3	X	162.84748	21.34975	341.90681	6.34052	0.2220652	0.28828279	2.2694654	21	2 13.3	18.8
137769 1999 XU_{189}	16.1	X	3.84312	109.20236	301.07551	8.74073	0.2219347	0.27221364	2.3579221	21	—	—
137770 1999 XD_{195}	15.7	X	207.23108	178.69150	354.79843	6.71789	0.0519895	0.26480740	2.4016846	21	11 10.4	19.0
137771 1999 XS_{196}	16.7	X	343.18823	350.93148	29.10810	5.34136	0.2363937	0.26607437	2.3940544	21	11 10.4	18.3
137772 1999 XZ_{197}	15.6	X	21.26588	60.86532	339.13456	6.71665	0.1125776	0.27119288	2.3638352	21	—	—
137773 1999 XM_{216}	16.8	X	356.87933	248.32358	105.02251	5.69824	0.1565544	0.26217325	2.4177448	21	10 24.7	19.0
137774 1999 XP_{217}	17.1	X	357.12048	112.15783	315.11800	0.73222	0.1618937	0.27077008	2.3662953	21	—	—
137775 1999 XH_{218}	16.4	X	0.68321	142.18690	93.53407	3.60095	0.1232948	0.24389661	2.5370686	21	4 26.1	18.9
137776 1999 XJ_{218}	16.8	X	248.22632	359.98114	85.95365	2.24223	0.1529224	0.25828273	2.4419633	21	8 24.7	20.0
137777 1999 XN_{218}	16.1	X	350.53939	328.35784	92.53081	4.52520	0.1835113	0.26950580	2.3736899	21	—	—
137778 1999 XL_{220}	16.3	X	314.85869	103.26905	340.50991	10.20315	0.1255411	0.26719026	2.3873841	21	12 12.3	18.8
137779 1999 XL_{221}	16.4	X	59.60302	54.66608	347.07086	4.97711	0.1644271	0.27907962	2.3190884	21	—	—
137780 1999 XO_{223}	16.5	X	241.39385	247.57639	278.90579	5.81320	0.1341690	0.26613435	2.3936947	21	12 5.3	19.4
137781 1999 XX_{224}	15.7	X	10.81938	46.90431	290.33680	8.15654	0.2603295	0.26265714	2.4147744	21	11 7.4	18.0
137782 1999 XF_{226}	16.0	X	326.70343	130.92948	298.13833	2.58158	0.1359940	0.26708135	2.3880331	21	12 14.5	18.0
137783 1999 XQ_{226}	16.8	X	5.34808	99.57513	323.68835	1.77159	0.1688923	0.27148133	2.3621605	21	—	—
137784 1999 XV_{228}	16.8	X	7.79813	107.98190	321.50894	1.93949	0.1530491	0.27238119	2.3569551	21	—	—
137785 1999 XB_{234}	16.5	X	135.59429	252.24785	105.44454	8.10263	0.2415714	0.28562069	2.2835452	21	1 10.8	19.3
137786 1999 XE_{237}	17.0	X	303.47157	89.49050	41.19868	2.56432	0.1668060	0.27317451	2.3523897	21	—	—
137787 1999 XV_{237}	15.3	X	110.22497	3.69356	59.88179	6.80820	0.1220749	0.19547699	2.9403946	21	3 8.0	19.5
137788 1999 XP_{238}	16.0	X	140.68223	283.54033	255.98380	5.35658	0.0902523	0.25941447	2.4348558	21	8 29.9	19.6
137789 1999 XF_{239}	16.1	X	85.47337	137.85787	288.44199	4.95236	0.1390284	0.28522859	2.2856375	21	1 13.7	18.2
137790 1999 XJ_{239}	16.8	X	22.61011	3.14079	24.49966	8.40017	0.2524898	0.27400052	2.3476596	21	—	—
137791 1999 XR_{242}	15.4	X	83.85404	124.88855	334.32691	13.67852	0.1277144	0.23905351	2.5712204	21	3 6.3	18.5
137792 1999 XP_{245}	16.8	X	82.98217	242.05891	152.20436	4.32927	0.2288544	0.28204252	2.3028182	21	—	—
137793 1999 XU_{250}	16.4	X	275.42427	66.08665	79.49469	3.35581	0.1058407	0.27326212	2.3518869	21	—	—
137794 1999 XK_{252}	16.5	X	12.27280	273.31010	103.92808	5.04861	0.2068149	0.26801726	2.3824705	21	—	—
137795 1999 XM_{252}	16.6	X	57.67545	76.44605	218.68955	3.96810	0.2124654	0.26775893	2.3840027	21	11 14.2	19.7
137796 1999 XB_{254}	17.0	X	251.59135	294.39673	246.76280	0.72000	0.1272242	0.26900476	2.3766364	21	—	—
137797 1999 XS_{255}	16.3	X	322.17517	323.23762	96.68590	8.01371	0.1268707	0.26533803	2.3984816	21	11 23.1	18.5
137798 1999 XH_{256}	16.6	X	216.05242	210.68074	279.25046	3.00283	0.1520476	0.26169006	2.4207200	21	9 13.4	20.1
137799 1999 YB	18.5	X	301.42169	192.65180	30.97382	6.79016	0.0747336	0.64898465	1.3212341	21	—	—
137800 1999 YE	15.2	X	81.12692	355.65673	85.91500	26.02321	0.2201119	0.28690049	2.2767492	21	2 19.1	17.9
137801 1999 YR	15.3	X	81.57916	179.37485	252.99303	23.75362	0.2448598	0.28184037	2.3039192	21	1 21.8	17.7
137802 1999 YT	17.0	X	74.51764	272.61816	116.42401	31.58484	0.3518112	0.41621963	1.7765919	21	—	—
137803 1999 YR_{1}	16.4	X	17.60343	202.56738	221.58639	2.35526	0.1834167	0.27455526	2.3444962	21	—	—
137804 1999 YQ_{2}	16.7	X	319.90268	194.87406	304.10647	1.74654	0.2111602	0.27270648	2.3550805	21	—	—
137805 1999 YK_{5}	16.7	X	324.70203	292.86247	349.54765	16.74722	0.5582875	1.30493425	0.8293610	21	—	—
137806 1999 YW_{6}	15.6	X	73.88760	144.04497	300.67722	23.59500	0.2188134	0.28356263	2.2945809	21	1 27.8	17.1
137807 1999 YE_{7}	15.9	X	0.26698	339.81844	50.12710	14.29104	0.2475732	0.26908840	2.3761439	21	—	—
137808 1999 YU_{7}	16.8	X	128.01614	341.60353	101.09761	5.94527	0.1242240	0.29175872	2.2514043	21	4 11.8	19.7
137809 1999 YL_{8}	16.6	X	8.43262	125.90090	102.89901	6.00913	0.0559300	0.29034017	2.2587316	21	4 28.8	18.9
137810 1999 YS_{8}	16.3	X	126.94238	316.67035	100.17471	5.01384	0.0968658	0.28535647	2.2849545	21	3 1.2	19.0
137811 1999 YD_{14}	16.4	X	356.76871	263.95418	129.60385	3.35806	0.2272963	0.26676858	2.3898993	21	—	—
137812 1999 YU_{14}	16.7	X	330.58183	122.69022	306.79430	4.02820	0.1224117	0.26707099	2.3880948	21	12 22.0	18.8
137813 1999 YB_{16}	16.7	X	344.11204	153.72095	144.96326	2.89311	0.2012305	0.25805841	2.4433783	21	6 20.4	18.6
137814 1999 YJ_{17}	16.1	X	280.38123	159.65175	293.28937	5.25257	0.0888332	0.26191161	2.4193547	21	10 26.3	18.9
137815 1999 YS_{23}	17.3	X	322.56236	221.08862	175.79444	2.28655	0.1897673	0.26661476	2.3908184	21	10 15.7	18.9
137816 1999 YD_{25}	14.0	X	337.67048	107.45017	254.86759	4.13364	0.1951064	0.12526753	3.9558855	21	8 31.4	18.6
137817 2000 AE_{1}	16.8	X	302.49998	192.96108	222.42127	0.52876	0.1741051	0.26118917	2.4238139	21	9 30.0	19.1
137818 2000 AR_{3}	15.8	X	297.28981	110.04809	302.85447	12.95346	0.1622040	0.26241573	2.4162553	21	9 10.6	18.6
137819 2000 AD_{4}	16.4	X	69.16690	95.76537	293.87191	4.39997	0.2703175	0.27771843	2.3266599	21	—	—
137820 2000 AL_{6}	16.6	X	255.62442	112.55977	44.49382	0.91700	0.1565989	0.26639250	2.3921481	21	12 9.6	19.3
137821 2000 AO_{7}	16.4	X	22.34997	353.01900	52.54479	5.10614	0.1999516	0.27369112	2.3494286	21	—	—
137822 2000 AB_{13}	16.5	X	40.87451	20.33205	58.59517	2.51521	0.1889172	0.27930497	2.3178408	21	—	—
137823 2000 AN_{14}	16.8	X	350.67394	166.79839	280.21838	1.85511	0.1391583	0.27353435	2.3503261	21	—	—
137824 2000 AT_{16}	16.3	X	6.90868	352.28483	88.69264	4.73168	0.1997461	0.27469311	2.3437118	21	—	—
137825 2000 AX_{17}	16.0	X	225.05389	59.31042	295.63620	1.93874	0.1928686	0.29340203	2.2429898	21	3 25.4	19.7
137826 2000 AX_{21}	15.7	X	8.09015	314.63061	46.11630	5.63467	0.2535897	0.26897784	2.3767949	21	12 10.1	18.0
137827 2000 AY_{21}	15.9	X	213.61335	214.11922	309.71773	1.77344	0.1274010	0.26451408	2.4034598	21	10 28.8	19.3
137828 2000 AC_{22}	16.4	X	104.15774	156.59865	274.74834	6.51067	0.0725644	0.28614420	2.2807591	21	2 8.3	19.0
137829 2000 AC_{24}	16.5	X	172.33508	120.93847	300.00143	6.68027	0.1126777	0.29293577	2.2453693	21	4 26.3	19.7
137830 2000 AP_{24}	15.7	X	179.98060	80.83703	88.42339	2.37150	0.1301320	0.25903211	2.4372513	21	10 1.4	19.4
137831 2000 AM_{25}	16.3	X	193.75045	148.43142	359.82422	2.36752	0.1314563	0.25828005	2.4419802	21	9 17.0	19.9
137832 2000 AW_{25}	16.1	X	250.38059	0.64603	75.33605	3.55903	0.1696539	0.25819108	2.4425412	21	8 11.7	19.5
137833 2000 AZ_{25}	16.8	X	266.21818	119.25886	314.06193	1.22040	0.1894967	0.26009849	2.4305851	21	8 23.9	20.0
137834 2000 AM_{26}	16.9	X	286.78252	77.21856	358.04241	1.50509	0.1615750	0.26288999	2.4133483	21	10 2.8	19.5
137835 2000 AX_{27}	15.7	X	221.85445	51.55028	305.16008	8.17299	0.1866989	0.24627800	2.5206873	21	3 25.9	20.1
137836 2000 AZ_{27}	16.6	X	288.69861	57.02877	20.64441	2.30990	0.1856903	0.26333999	2.4105982	21	10 6.3	18.8
137837 2000 AX_{28}	15.3	X	56.48584	223.35683	324.94511	6.90616	0.2000700	0.24414770	2.5353288	21	6 9.6	18.1
137838 2000 AD_{29}	16.3	X	187.04743	50.92435	46.34191	3.04597	0.1513374	0.25196771	2.4825964	21	7 4.8	20.3
137839 2000 AM_{32}	16.1	X	207.15103	89.60743	81.63860	3.15028	0.1390785	0.26165952	2.4209084	21	10 31.4	19.6
137840 2000 AX_{32}	15.9	X	13.85670	91.36509	332.77437	3.13901	0.1526171	0.27208508	2.3586648	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137841 2000 AN_{35}	16.5	X	244.75692	21.69875	93.02863	2.80814	0.1015957	0.26169950	2.4206618	21	10 7.1	19.5
137842 2000 AK_{37}	16.0	X	143.86476	270.00044	92.43108	6.72506	0.1567373	0.28228957	2.3014745	21	1 16.2	18.9
137843 2000 AM_{37}	15.1	X	51.53746	265.89485	292.44853	10.87263	0.1189825	0.24572239	2.5244856	21	6 2.6	18.1
137844 2000 AS_{37}	16.0	X	29.21897	237.20658	302.99471	6.24512	0.0610706	0.28712214	2.2755773	21	3 15.3	18.5
137845 2000 AT_{37}	16.9	X	342.64921	79.26284	354.13464	2.02080	0.1914696	0.26983481	2.3717599	21	—	—
137846 2000 AT_{41}	15.7	X	317.62116	87.62561	323.75490	12.12008	0.2619213	0.26387372	2.4073466	21	10 11.2	17.6
137847 2000 AT_{43}	16.6	X	340.33343	295.11325	104.38191	2.97077	0.1659416	0.26571066	2.3962386	21	11 29.6	18.6
137848 2000 AT_{45}	16.4	X	359.04236	166.23017	258.59501	2.02498	0.1595585	0.27236175	2.3570672	21	—	—
137849 2000 AY_{50}	16.9	X	189.08892	74.87689	98.49403	1.90820	0.1159341	0.25956911	2.4338887	21	10 16.6	20.4
137850 2000 AL_{52}	15.6	X	121.66644	101.87531	349.09915	4.85587	0.1369336	0.29298966	2.2450939	21	4 11.9	18.4
137851 2000 AR_{52}	16.5	X	102.91140	186.49560	250.22748	2.71864	0.2098725	0.28892361	2.2661084	21	3 9.1	18.9
137852 2000 AW_{52}	16.2	X	82.18823	60.11862	329.06012	4.53741	0.1521660	0.28199515	2.3030761	21	—	—
137853 2000 AB_{53}	15.7	X	107.52757	156.50422	266.31133	5.04545	0.1871372	0.28761096	2.2729982	21	2 19.6	18.3
137854 2000 AG_{54}	16.6	X	248.96869	140.48868	294.12393	10.42955	0.2372811	0.25759602	2.4463013	21	7 28.3	20.2
137855 2000 AQ_{56}	15.4	X	255.67345	2.73727	102.43702	7.16295	0.0645664	0.26043768	2.4284743	21	10 16.9	18.5
137856 2000 AP_{57}	16.2	X	97.43098	58.19127	96.99555	0.18435	0.1276516	0.24532731	2.5271952	21	6 12.6	19.6
137857 2000 AT_{59}	15.8	X	174.39909	178.03996	338.13745	2.03953	0.1344681	0.25476639	2.4643816	21	9 7.0	19.5
137858 2000 AX_{59}	16.3	X	56.61665	1.23610	84.95119	2.71437	0.1610086	0.27926680	2.3180520	21	—	—
137859 2000 AX_{61}	15.7	X	261.08020	138.98337	317.34110	5.98573	0.0774200	0.25949083	2.4343781	21	10 3.1	18.7
137860 2000 AK_{65}	15.5	X	116.34929	40.23782	115.85797	14.04270	0.1519582	0.24674768	2.5174876	21	7 10.0	19.1
137861 2000 AA_{66}	16.0	X	219.02993	346.51512	100.68325	7.41210	0.1346169	0.25290405	2.4764650	21	7 25.3	19.6
137862 2000 AP_{66}	16.3	X	79.26009	31.38859	81.12684	4.14203	0.1992169	0.28414538	2.2914426	21	3 26.1	18.4
137863 2000 AQ_{66}	16.0	X	301.95444	24.31642	97.11871	6.12956	0.1804934	0.26737795	2.3862668	21	—	—
137864 2000 AU_{78}	15.9	X	191.91894	4.30006	127.60573	2.77116	0.1596798	0.25615695	2.4554549	21	8 23.7	19.8
137865 2000 AJ_{82}	16.7	X	24.00861	294.91192	122.72728	4.71124	0.2281292	0.27431455	2.3458676	21	—	—
137866 2000 AP_{82}	16.5	X	317.05251	282.16572	135.53723	1.81493	0.1679763	0.26518220	2.3994211	21	11 6.8	18.4
137867 2000 AO_{83}	16.9	X	234.29881	207.34305	249.89926	0.73303	0.1467169	0.25791688	2.4442720	21	8 22.8	20.5
137868 2000 AA_{84}	15.9	X	181.54260	58.33448	110.75269	4.21364	0.1184855	0.25898760	2.4375306	21	10 4.2	19.5
137869 2000 AA_{86}	16.5	X	178.25386	323.24773	203.13868	1.69681	0.1520517	0.25704841	2.4497745	21	9 23.4	20.1
137870 2000 AE_{86}	16.5	X	256.70016	13.43298	125.64271	2.86988	0.1606947	0.26464267	2.4026811	21	11 16.4	19.2
137871 2000 AO_{86}	16.4	X	245.42207	311.99300	161.78943	1.14961	0.1436738	0.26042147	2.4285750	21	9 28.9	19.6
137872 2000 AH_{87}	15.8	X	345.84291	46.68281	115.42328	12.60457	0.1015090	0.23229159	2.6208795	21	—	—
137873 2000 AC_{91}	16.5	X	326.72466	288.15530	130.83624	5.29339	0.1820803	0.26531835	2.3986002	21	12 1.5	18.5
137874 2000 AV_{93}	16.1	X	336.54477	61.19684	88.27826	1.34050	0.1554661	0.27787899	2.3257636	21	—	—
137875 2000 AE_{98}	15.4	X	137.26161	9.23244	87.06584	5.82923	0.2170910	0.24256059	2.5463762	21	5 21.6	19.4
137876 2000 AR_{104}	16.2	X	292.60054	335.53366	125.79377	5.41975	0.1448463	0.26919978	2.3754884	21	11 26.9	18.4
137877 2000 AB_{105}	16.3	X	315.72842	160.96464	221.01718	6.47676	0.1902483	0.26321959	2.4113333	21	8 30.6	18.6
137878 2000 AS_{106}	16.6	X	264.53319	309.66788	139.38327	3.18607	0.1513153	0.26182991	2.4198580	21	9 20.3	19.5
137879 2000 AJ_{114}	12.0	X	289.66114	199.60567	268.36838	12.36438	0.0698081	0.08145876	5.2704074	21	10 30.9	19.0
137880 2000 AA_{115}	16.0	X	270.24111	266.41070	250.34276	5.68907	0.1791434	0.26802604	2.3824185	21	12 29.9	18.4
137881 2000 AR_{119}	15.5	X	230.41258	222.59410	257.71360	7.72506	0.2258360	0.25863247	2.4397614	21	9 5.4	19.4
137882 2000 AF_{120}	15.7	X	291.57973	116.87318	289.73789	5.22165	0.1142306	0.25852594	2.4404316	21	9 3.2	18.4
137883 2000 AP_{127}	16.1	X	62.81767	166.20723	289.19759	3.38811	0.1300546	0.28038210	2.3119008	21	1 14.9	18.2
137884 2000 AG_{128}	15.2	X	123.40210	159.48008	305.93743	21.01840	0.0781102	0.24233831	2.5479330	21	4 21.3	19.3
137885 2000 AG_{129}	16.5	X	169.31115	305.40245	129.35314	7.94379	0.0706177	0.29146076	2.2529384	21	5 15.6	19.6
137886 2000 AP_{133}	16.2	X	309.30386	172.65087	277.55729	14.05250	0.1071350	0.26792578	2.3830128	21	12 13.2	18.5
137887 2000 AU_{133}	16.5	X	344.65882	3.53340	89.73967	4.52389	0.1397202	0.27243039	2.3566713	21	—	—
137888 2000 AG_{135}	16.3	X	261.03252	114.39473	27.26097	4.91809	0.1148082	0.26647822	2.3916350	21	12 2.4	18.9
137889 2000 AO_{136}	15.3	X	356.30939	276.01346	323.61850	11.11314	0.1603653	0.24234440	2.5478903	21	4 11.9	18.1
137890 2000 AZ_{146}	15.8	X	53.14467	18.90514	40.49274	6.03690	0.2412857	0.27670211	2.3323537	21	—	—
137891 2000 AJ_{149}	14.9	X	109.47417	105.06884	113.48933	13.98530	0.1697243	0.25824983	2.4421707	21	10 1.9	18.9
137892 2000 AR_{154}	15.7	X	80.25502	82.57121	284.41910	8.21328	0.2308945	0.27973772	2.3154497	21	—	—
137893 2000 AO_{157}	16.2	X	340.48684	205.78426	278.71269	3.84909	0.2046167	0.27469757	2.3436864	21	—	—
137894 2000 AZ_{158}	16.1	X	292.72646	157.13746	319.56926	7.05858	0.1147893	0.26745540	2.3858060	21	12 21.2	18.6
137895 2000 AS_{164}	16.7	X	303.14666	282.66190	147.96219	2.44357	0.1909543	0.26354223	2.4093648	21	10 24.9	18.6
137896 2000 AS_{167}	15.3	X	40.69503	312.59278	218.07368	9.90688	0.1350697	0.24008933	2.5638197	21	4 3.5	18.0
137897 2000 AM_{169}	16.1	X	290.90637	149.09333	210.42775	7.92530	0.1431275	0.25775353	2.4453046	21	6 21.9	19.2
137898 2000 AK_{172}	16.2	X	244.91941	252.20994	215.18640	7.56989	0.1980926	0.26143291	2.4223072	21	9 8.9	19.7
137899 2000 AR_{187}	15.0	X	353.88071	73.40851	104.68125	23.72156	0.2627196	0.28366488	2.2940295	21	—	—
137900 2000 AQ_{192}	15.4	X	233.12548	298.47084	176.42653	10.14376	0.1797923	0.25913608	2.4365994	21	9 9.8	19.0
137901 2000 AD_{204}	15.3	X	43.40457	209.38802	305.06736	7.64050	0.1132361	0.23792832	2.5793204	21	3 12.8	18.2
137902 2000 AQ_{213}	16.1	X	283.24634	174.98174	102.57762	3.63678	0.1173649	0.24009277	2.5637952	21	2 27.9	19.6
137903 2000 AT_{214}	16.4	X	285.70612	22.40369	83.07416	1.67882	0.0513134	0.26714463	2.3876560	21	11 29.4	19.2
137904 2000 AU_{217}	17.1	X	316.18033	100.25438	282.34689	1.80824	0.2095541	0.26179717	2.4200597	21	9 1.2	19.1
137905 2000 AT_{225}	16.1	X	291.42156	2.37097	298.13104	3.33465	0.0574506	0.24580340	2.5239309	21	4 13.8	19.5
137906 2000 AL_{227}	16.0	X	357.96856	78.74845	320.12071	5.92977	0.1033925	0.26364641	2.4087301	21	12 22.9	18.6
137907 2000 AT_{231}	16.9	X	319.61886	346.05443	91.47320	3.48713	0.1795411	0.26705997	2.3881606	21	12 13.8	18.5
137908 2000 AT_{232}	16.8	X	338.61681	319.29988	111.76461	7.46241	0.2425633	0.26851393	2.3795317	21	—	—
137909 2000 AN_{235}	16.0	X	151.23756	240.16901	288.43436	3.87903	0.1325051	0.25383619	2.4703986	21	8 29.4	19.8
137910 2000 AP_{238}	16.3	X	351.77024	35.98048	62.27041	6.14970	0.1861548	0.27166789	2.3610790	21	—	—
137911 2000 AB_{246}	17.6	X	67.13279	312.30421	29.38090	3.75758	0.4941426	0.28171869	2.3045826	21	—	—
137912 2000 AK_{251}	16.7	X	24.50943	222.25755	288.65142	4.22060	0.1102800	0.28280022	2.2987031	21	1 24.2	18.9
137913 2000 BH_{3}	14.7	X	67.79243	73.89645	100.50378	13.65093	0.0633578	0.24352857	2.5396241	21	5 21.7	18.0
137914 2000 BU_{7}	16.1	X	177.66472	188.30915	340.76158	5.75074	0.1570223	0.25801805	2.4436330	21	9 25.1	19.9
137915 2000 BK_{8}	16.3	X	238.84775	114.71927	51.26681	5.56326	0.0908189	0.26545114	2.3978002	21	12 7.6	19.3
137916 2000 BM_{10}	16.5	X	313.75298	137.13106	109.97686	2.93997	0.0618259	0.28519480	2.2858180	21	2 26.7	19.1
137917 2000 BW_{12}	16.5	X	331.29034	265.70838	332.47125	3.88275	0.1515055	0.23691708	2.5866547	21	3 4.7	19.6
137918 2000 BO_{13}	17.3	X	231.95168	195.78942	317.89657	3.93931	0.2447109	0.26208956	2.4182595	21	10 20.4	21.0
137919 2000 BD_{14}	14.7	X	0.45228	297.03840	331.66561	7.23657	0.1601877	0.24505496	2.5290673	21	6 12.3	17.2
137920 2000 BW_{16}	16.2	X	261.00089	102.15643	1.56257	1.62159	0.1497850	0.26183904	2.4198018	21	10 4.8	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137921 2000 BV_{17}	16.1	X	326.37158	127.04095	315.36699	4.59864	0.1131167	0.26768776	2.3844252	21	—	—
137922 2000 BA_{18}	16.7	X	300.78113	108.52131	42.48077	3.39055	0.1735804	0.27113248	2.3641862	21	—	—
137923 2000 BF_{18}	16.3	X	202.90369	144.64429	40.65384	4.47085	0.1538619	0.26232476	2.4168138	21	11 11.1	20.0
137924 2000 BD_{19}	17.2	X	211.24204	324.34800	333.69917	25.73589	0.8949818	1.20115131	0.8764710	21	—	—
137925 2000 BJ_{19}	16.0	X	60.85557	175.51708	131.22912	31.11415	0.7638337	0.67131190	1.2917738	21	—	—
137926 2000 BS_{22}	16.1	X	53.12114	175.64716	351.61849	4.19332	0.1576372	0.23987887	2.5653190	21	4 25.1	18.9
137927 2000 BX_{23}	16.1	X	275.64794	52.83029	38.40739	6.82582	0.1087715	0.26169009	2.4207199	21	10 17.2	18.8
137928 2000 BO_{24}	15.9	X	190.20529	95.35398	25.44832	11.99201	0.1271912	0.25302325	2.4756871	21	8 13.8	19.9
137929 2000 BG_{26}	16.3	X	220.27347	128.75829	59.82080	2.89699	0.1385675	0.26404896	2.4062814	21	12 6.7	19.5
137930 2000 BN_{26}	16.1	X	233.38371	110.11980	42.59687	2.73390	0.1347961	0.26191237	2.4193500	21	11 6.0	19.2
137931 2000 BY_{26}	16.0	X	278.92247	109.62113	351.93523	2.40855	0.1531100	0.26239170	2.4164028	21	10 28.4	18.6
137932 2000 BS_{28}	16.5	X	271.00372	87.11437	88.69680	3.45951	0.1376105	0.26967050	2.3727233	21	—	—
137933 2000 BH_{32}	16.8	X	318.90915	139.25714	308.46254	2.37353	0.1595933	0.26761476	2.3848588	21	12 28.1	18.7
137934 2000 BO_{32}	15.8	X	14.64480	158.53107	298.41337	2.37685	0.0374867	0.22858084	2.6491680	21	—	—
137935 2000 BT_{32}	16.5	X	285.88225	299.36748	117.94729	1.99019	0.1761564	0.25966031	2.4333188	21	9 2.7	19.3
137936 2000 BB_{34}	16.2	X	51.22251	63.05139	327.82022	2.12617	0.2320589	0.27232378	2.3572863	21	—	—
137937 2000 BP_{34}	15.5	X	211.51461	55.91524	359.32044	4.56900	0.0128931	0.24641824	2.5197308	21	6 10.7	18.9
137938 2000 BK_{35}	16.0	X	351.11243	356.39271	59.88320	4.11344	0.1739505	0.26778224	2.3838643	21	—	—
137939 2000 BW_{35}	16.3	X	258.33994	92.37767	94.92818	4.72710	0.1377410	0.26967881	2.3726745	21	—	—
137940 2000 BQ_{37}	16.7	X	31.80431	44.09066	309.91517	1.13643	0.1654312	0.26553672	2.3972849	21	12 21.9	19.7
137941 2000 BQ_{42}	16.5	X	146.26569	291.26380	301.25700	0.43929	0.1402454	0.26036632	2.4289179	21	11 15.7	20.2
137942 2000 BB_{47}	15.7	X	342.36142	328.36522	111.05849	4.68248	0.0542793	0.26853049	2.3794339	21	—	—
137943 2000 BZ_{48}	16.9	X	311.69767	189.93256	294.28090	7.31975	0.1809286	0.27067926	2.3668246	21	—	—
137944 2000 BC_{49}	16.9	X	253.22003	215.55562	315.15468	1.67239	0.1503226	0.26711602	2.3878265	21	12 26.1	19.5
137945 2000 BF_{49}	16.7	X	282.77311	11.64501	128.37285	2.01710	0.1277188	0.26760209	2.3849341	21	—	—
137946 2000 BF_{51}	16.7	X	296.16962	147.28603	300.08298	4.55403	0.1905352	0.26524779	2.3990255	21	11 2.2	18.8
137947 2000 CD_{1}	16.6	X	289.30692	349.65946	148.37011	2.88863	0.1615510	0.26680375	2.3896892	21	—	—
137948 2000 CY_{3}	16.1	X	120.90687	148.14452	275.67037	3.70890	0.1293563	0.28630737	2.2798925	21	3 3.3	18.9
137949 2000 CV_{6}	16.3	X	329.93629	351.41044	83.94152	7.79872	0.0938851	0.26718525	2.3874139	21	12 27.5	18.7
137950 2000 CB_{7}	16.3	X	283.99034	135.99337	104.72163	7.99419	0.1805225	0.27820485	2.3239472	21	—	—
137951 2000 CG_{11}	15.9	X	344.06190	131.93996	272.34008	7.98166	0.1832709	0.26607932	2.3940247	21	12 16.3	17.8
137952 2000 CY_{11}	16.7	X	275.39770	245.51276	178.20148	2.27698	0.1825244	0.25906155	2.4370667	21	8 24.0	19.4
137953 2000 CG_{12}	15.5	X	124.29438	120.64951	271.92463	3.25193	0.1776219	0.28233538	2.3012255	21	2 2.4	18.3
137954 2000 CK_{13}	12.6	X	15.51922	262.47955	144.11101	5.70018	0.0438637	0.08333199	5.1911256	21	12 10.6	19.4
137955 2000 CD_{15}	16.5	X	83.36657	67.45287	327.34108	1.48346	0.2369997	0.27767442	2.3269058	21	—	—
137956 2000 CW_{17}	15.9	X	89.81960	82.75379	292.47284	2.36447	0.1800774	0.27526111	2.3404866	21	—	—
137957 2000 CZ_{17}	16.7	X	291.04085	318.26828	147.36560	3.43234	0.1285544	0.26490639	2.4010862	21	11 30.4	19.1
137958 2000 CX_{18}	16.3	X	298.07632	296.95971	137.18319	10.08657	0.2005557	0.26292507	2.4131337	21	10 21.9	18.6
137959 2000 CZ_{18}	15.4	X	56.34477	49.38223	162.24078	1.07001	0.0846172	0.24639157	2.5199126	21	6 25.6	18.2
137960 2000 CD_{19}	16.8	X	241.65676	327.19116	145.92522	1.63628	0.1420263	0.25900913	2.4373955	21	9 23.6	19.8
137961 2000 CO_{19}	15.9	X	236.78124	346.55198	165.22012	5.61167	0.1027243	0.26259576	2.4151508	21	11 15.6	19.0
137962 2000 CA_{22}	16.0	X	322.37404	67.84393	149.34158	5.37334	0.0635997	0.23485892	2.6017447	21	2 6.0	19.2
137963 2000 CB_{23}	15.6	X	21.53241	143.07450	264.36281	4.68297	0.1962443	0.27021537	2.3695326	21	—	—
137964 2000 CZ_{23}	15.0	X	57.63080	37.92316	166.29544	3.30748	0.0579822	0.24538377	2.5268075	21	6 13.3	18.1
137965 2000 CT_{24}	16.4	X	278.10183	239.48640	262.99108	1.44986	0.1494223	0.26636999	2.3922828	21	12 27.7	18.7
137966 2000 CZ_{24}	15.3	X	38.49981	133.48233	274.97276	4.40180	0.2253881	0.27277785	2.3546696	21	—	—
137967 2000 CS_{26}	15.3	X	40.14969	317.79176	251.27874	2.08641	0.0694188	0.24327048	2.5414200	21	5 24.7	18.3
137968 2000 CY_{31}	16.5	X	95.72104	344.90439	169.81204	4.66318	0.2090094	0.24355979	2.5394071	21	6 21.7	20.1
137969 2000 CA_{32}	16.7	X	266.68925	247.56782	224.42846	2.19304	0.1509455	0.26159969	2.4212775	21	10 24.4	19.3
137970 2000 CR_{33}	15.8	X	76.78185	162.86313	323.16892	13.95619	0.1237531	0.23844396	2.5756005	21	3 26.6	19.2
137971 2000 CQ_{39}	16.1	X	14.49326	284.97794	128.92566	7.57365	0.1921220	0.27007206	2.3703707	21	—	—
137972 2000 CB_{40}	16.9	X	188.40257	270.48316	153.44391	23.92133	0.0621800	0.38257703	1.8792741	21	5 22.4	19.7
137973 2000 CH_{40}	16.6	X	64.77995	171.41141	331.25408	19.73922	0.0601538	0.37583712	1.9016749	21	2 28.7	17.9
137974 2000 CG_{41}	16.2	X	222.20114	94.12644	347.47281	1.89542	0.0591831	0.25325090	2.4742033	21	7 28.4	19.4
137975 2000 CQ_{41}	16.6	X	64.10293	181.26452	278.90870	3.98758	0.1179766	0.28103387	2.3083249	21	1 23.1	18.7
137976 2000 CT_{41}	16.1	X	317.62675	144.06189	272.37128	5.63684	0.0952521	0.26218823	2.4176527	21	11 5.7	18.6
137977 2000 CU_{41}	15.2	X	1.72619	254.38071	275.10002	7.18038	0.0574297	0.18830719	3.0145659	21	2 7.3	19.2
137978 2000 CL_{43}	16.8	X	276.21046	172.67384	271.21893	1.28222	0.1833327	0.26006034	2.4308228	21	9 23.0	19.3
137979 2000 CG_{47}	15.1	X	275.71820	288.31734	300.71289	12.59213	0.0552707	0.22900989	2.6458581	21	—	—
137980 2000 CC_{49}	16.2	X	109.97142	203.00627	288.24973	2.57778	0.1633967	0.24285267	2.5443340	21	5 31.5	19.8
137981 2000 CH_{50}	16.2	X	48.79752	354.06555	189.40597	3.64216	0.2300202	0.23953831	2.5677500	21	5 25.0	18.6
137982 2000 CR_{53}	15.6	X	103.15134	161.17004	326.07184	3.87338	0.1615031	0.24063856	2.5599171	21	5 16.6	19.0
137983 2000 CU_{54}	15.4	X	1.38862	45.75090	160.26011	17.61247	0.1209302	0.23625897	2.5914560	21	3 16.5	18.3
137984 2000 CV_{55}	15.6	X	299.78742	79.10686	140.40614	11.83324	0.1279035	0.23069865	2.6329302	21	1 3.9	19.5
137985 2000 CP_{56}	15.4	X	1.46400	144.92611	351.31700	11.23578	0.1249764	0.22889533	2.6467409	21	—	—
137986 2000 CG_{60}	15.7	X	26.97255	73.15910	311.11690	4.32306	0.2391321	0.26772486	2.3842049	21	—	—
137987 2000 CN_{61}	15.6	X	3.23212	359.24164	192.85293	7.61085	0.1404203	0.23431457	2.6057727	21	2 22.6	18.5
137988 2000 CA_{62}	15.2	X	107.04543	173.35770	315.38242	13.54818	0.1015274	0.24104340	2.5570500	21	5 11.3	19.0
137989 2000 CB_{62}	15.0	X	285.81190	327.48593	325.96507	25.26066	0.1546660	0.28228927	2.3014761	21	3 3.5	18.5
137990 2000 CD_{62}	15.6	X	273.34925	280.61854	183.51513	10.38445	0.1776031	0.26050586	2.4280505	21	10 21.1	18.3
137991 2000 CM_{64}	16.0	X	114.59154	115.89833	335.95247	3.62360	0.0657651	0.24025263	2.5626578	21	3 30.6	19.3
137992 2000 CE_{66}	16.7	X	75.58721	182.73793	247.23563	2.41660	0.1270580	0.27897627	2.3196611	21	1 1.3	18.8
137993 2000 CH_{66}	16.5	X	255.80083	50.72624	84.99957	4.92353	0.1049056	0.26318986	2.4115149	21	11 19.0	19.4
137994 2000 CQ_{66}	16.6	X	256.18562	327.97385	165.56640	1.57623	0.1372339	0.26202876	2.4186335	21	11 10.9	19.6
137995 2000 CV_{74}	16.0	X	306.34900	129.45150	134.50629	3.15878	0.1562710	0.23803714	2.5785342	21	3 4.5	19.4
137996 2000 CT_{77}	16.6	X	255.75203	156.97649	295.83034	1.61603	0.1580197	0.25731046	2.4481109	21	9 10.1	19.8
137997 2000 CX_{77}	16.7	X	203.32509	213.19649	300.36041	1.71556	0.1235186	0.25681792	2.4512400	21	10 3.5	20.1
137998 2000 CK_{80}	15.3	X	112.63060	181.32505	326.18484	17.04027	0.0901440	0.24505678	2.5290547	21	6 17.0	19.1
137999 2000 CM_{80}	15.4	X	324.46141	56.18990	337.27798	13.64094	0.2726889	0.26112354	2.4242200	21	9 29.5	17.0
138000 2000 CK_{82}	15.6	X	335.12770	75.58856	10.82505	2.12570	0.1844240	0.26788341	2.3832641	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138001 2000 CV_{82}	16.4	X	298.32712	76.04438	103.83846	1.47471	0.1483508	0.27171610	2.3607996	21	—	—
138002 2000 CN_{84}	15.8	X	101.09310	29.28865	119.23437	1.67214	0.0921853	0.24321720	2.5417911	21	6 3.1	19.2
138003 2000 CK_{85}	16.3	X	280.95320	50.80837	56.02480	2.98222	0.0825604	0.26172849	2.4204831	21	11 19.1	19.0
138004 2000 CW_{85}	16.2	X	237.74292	16.32658	113.65584	2.26554	0.1283860	0.25889703	2.4380990	21	10 13.9	19.3
138005 2000 CT_{87}	14.8	X	289.04252	234.82104	333.12530	13.74061	0.0826267	0.22769336	2.6560473	21	—	—
138006 2000 CV_{87}	15.8	X	217.92885	133.03721	328.24689	14.10967	0.0530715	0.25233642	2.4801775	21	8 19.6	19.1
138007 2000 CN_{88}	15.9	X	67.11008	163.71618	356.33184	13.00087	0.2083285	0.23942472	2.5685620	21	5 14.4	19.1
138008 2000 CT_{88}	15.0	X	262.84423	207.64186	2.56583	12.53691	0.1207890	0.22326242	2.6910739	21	—	—
138009 2000 CX_{99}	15.9	X	6.18253	37.95168	137.23882	4.45289	0.1137348	0.23499803	2.6007179	21	2 8.9	18.7
138010 2000 CG_{100}	16.3	X	275.60213	145.43375	318.85019	4.94030	0.1435360	0.26244508	2.4160751	21	10 26.6	19.0
138011 2000 CO_{100}	16.4	X	262.61532	85.06738	341.62243	1.24331	0.0699233	0.25546866	2.4598632	21	8 28.7	19.4
138012 2000 CC_{101}	15.9	X	36.77126	144.79970	115.26871	2.83635	0.0836022	0.25108029	2.4884427	21	8 4.4	18.5
138013 2000 CN_{101}	14.7	X	80.27006	118.69119	183.36630	15.97562	0.6349760	0.48799483	1.5978128	21	—	—
138014 2000 CN_{103}	16.3	X	247.81956	226.82608	252.27875	7.77733	0.1881646	0.25967906	2.4332016	21	9 28.4	19.8
138015 2000 CT_{109}	15.9	X	241.59407	284.93273	221.63424	8.12824	0.2119847	0.26183260	2.4198414	21	10 27.6	19.1
138016 Kerribeisser	16.7	X	296.10303	81.21212	0.29154	3.88756	0.2079466	0.26209424	2.4182307	21	10 21.6	18.9
138017 2000 CG_{113}	17.1	X	42.77838	315.47124	139.86437	2.36834	0.1858856	0.27862028	2.3216366	21	—	—
138018 2000 CL_{113}	16.5	X	308.67181	170.69639	317.06059	4.39039	0.1728291	0.26919514	2.3755157	21	—	—
138019 2000 CG_{117}	16.5	X	289.26106	71.45232	59.23752	1.42745	0.1512900	0.26750879	2.3854886	21	12 31.9	18.8
138020 2000 CL_{118}	16.3	X	298.89484	30.93438	27.81031	2.47871	0.1728110	0.26045063	2.4283938	21	9 28.9	18.6
138021 2000 CG_{121}	16.1	X	74.03502	125.75370	262.19816	1.42956	0.2316821	0.27361786	2.3498479	21	—	—
138022 2000 CH_{121}	16.3	X	15.71246	238.83317	281.70224	5.38719	0.0691662	0.27973063	2.3154889	21	1 26.9	18.6
138023 2000 CL_{126}	15.4	X	330.56121	188.46232	30.05625	2.90073	0.1420032	0.23290608	2.6162676	21	2 9.3	18.6
138024 2000 CW_{131}	16.4	X	276.97862	194.99691	161.36699	2.56210	0.1106188	0.24683416	2.5168995	21	6 4.2	19.8
138025 2000 CB_{134}	16.4	X	276.20878	171.08204	146.66146	7.04105	0.0978799	0.24220304	2.5488816	21	4 16.2	19.9
138026 2000 DR	15.3	X	117.65058	9.58536	107.99214	8.02256	0.1947045	0.24210316	2.5495825	21	5 27.9	19.1
138027 2000 DD_{1}	16.3	X	261.70263	297.95935	240.81612	3.03290	0.2065393	0.26774608	2.3840789	21	—	—
138028 2000 DY_{1}	15.6	X	54.47057	88.63133	140.57105	2.73578	0.0513251	0.24724741	2.5140942	21	7 13.0	18.7
138029 2000 DP_{2}	16.7	X	282.88506	1.85049	157.77470	1.89497	0.1022423	0.26718295	2.3874277	21	—	—
138030 2000 DP_{4}	16.2	X	271.73153	110.48353	7.05624	8.58401	0.0701128	0.26233975	2.4167217	21	11 19.0	19.2
138031 2000 DK_{9}	13.3	X	328.10156	298.54389	157.99767	2.95401	0.0362159	0.08138002	5.2738065	21	12 8.5	20.1
138032 2000 DC_{11}	15.7	X	120.43099	25.04477	66.52793	0.45234	0.0082666	0.19279940	2.9675561	21	4 5.5	19.9
138033 2000 DQ_{11}	16.5	X	268.17885	86.80451	171.11367	3.51480	0.2019545	0.22674083	2.6634807	21	1 11.7	20.9
138034 2000 DQ_{16}	15.4	X	113.75872	123.49641	332.93711	22.01778	0.0792917	0.23873286	2.5735221	21	3 27.6	19.2
138035 2000 DE_{17}	17.2	X	200.08892	52.15686	337.31293	17.74749	0.1094122	0.37946664	1.8895294	21	3 30.9	19.8
138036 2000 DM_{17}	16.9	X	32.13100	143.43424	280.13987	1.78978	0.2383647	0.27196196	2.3593767	21	—	—
138037 2000 DG_{18}	15.6	X	200.28837	42.66149	11.99187	1.94548	0.1474104	0.24646515	2.5194111	21	5 22.8	19.6
138038 2000 DV_{18}	15.3	X	306.01522	348.74575	321.56494	12.19179	0.1640182	0.24473859	2.5312463	21	4 26.4	18.7
138039 2000 DN_{19}	15.9	X	47.45697	206.56134	325.26603	14.41545	0.0555686	0.23991732	2.5650450	21	4 4.1	19.4
138040 2000 DJ_{21}	16.6	X	350.63258	293.96422	155.67186	2.38223	0.1919040	0.27057199	2.3674501	21	—	—
138041 2000 DN_{21}	15.7	X	294.50049	104.81016	317.68589	5.90349	0.1179695	0.25916371	2.4364262	21	9 30.6	18.5
138042 2000 DW_{21}	15.9	X	3.91275	185.56541	316.67591	8.39113	0.0563898	0.23052191	2.6342758	21	—	—
138043 2000 DT_{23}	17.1	X	258.35607	334.50987	136.52309	1.96252	0.1345120	0.26019658	2.4299742	21	10 14.6	19.9
138044 2000 DW_{24}	15.8	X	29.32765	208.06980	339.06402	7.17776	0.1085185	0.23856943	2.5746974	21	4 4.2	18.7
138045 2000 DD_{27}	16.8	X	58.49347	248.12976	212.58996	1.74446	0.1757014	0.27982119	2.3149893	21	1 16.6	18.3
138046 2000 DQ_{27}	17.0	X	207.42192	308.14392	205.06210	2.31657	0.1436343	0.25760976	2.4462144	21	10 6.3	20.5
138047 2000 DS_{30}	15.7	X	169.54513	271.78174	312.75268	5.74102	0.1115579	0.21415944	2.7668009	21	11 21.5	20.2
138048 2000 DG_{32}	15.6	X	118.42888	67.32104	338.24635	13.87094	0.0358111	0.23266699	2.6180596	21	2 4.4	19.2
138049 2000 DO_{33}	16.1	X	344.25096	122.93249	305.12729	3.15318	0.0983576	0.26538758	2.3981830	21	—	—
138050 2000 DJ_{34}	16.9	X	293.64317	230.02885	206.13132	1.01860	0.1509747	0.26035565	2.4289843	21	10 17.9	19.2
138051 2000 DM_{34}	15.5	X	214.68603	327.19459	145.36624	3.19719	0.0617851	0.25336131	2.4734844	21	8 30.0	18.8
138052 2000 DB_{36}	16.3	X	159.41590	107.24627	337.07976	6.53298	0.0589149	0.28919215	2.2647054	21	5 10.3	19.3
138053 2000 DL_{37}	15.5	X	2.79337	139.59900	97.04466	2.05266	0.0485715	0.24101873	2.5572245	21	5 4.4	18.6
138054 2000 DC_{38}	15.2	X	208.28730	44.46560	155.46404	14.09279	0.1226514	0.21587863	2.7520920	21	12 3.9	19.6
138055 2000 DM_{38}	16.2	X	353.50639	260.27543	325.44906	2.89422	0.0963410	0.23778791	2.5803357	21	3 29.9	19.1
138056 2000 DN_{38}	16.4	X	252.34185	237.81142	168.33246	3.72006	0.1998600	0.25201608	2.4822787	21	6 29.0	20.1
138057 2000 DQ_{38}	15.7	X	345.49511	140.70708	334.37359	13.74834	0.0456462	0.22410709	2.6843078	21	—	—
138058 2000 DX_{38}	15.9	X	84.55808	74.68809	312.96987	3.64392	0.2474359	0.27446882	2.3449884	21	—	—
138059 2000 DA_{39}	16.0	X	298.62735	91.55393	324.88109	6.90780	0.1280322	0.25803510	2.4435254	21	9 27.2	18.6
138060 2000 DC_{39}	15.7	X	304.36066	296.74289	311.61350	3.73922	0.0991362	0.23408078	2.6075074	21	2 17.5	19.1
138061 2000 DE_{39}	16.4	X	281.69709	260.21377	170.62172	8.17841	0.2044670	0.25866162	2.4395780	21	9 9.6	19.1
138062 2000 DB_{42}	16.9	X	21.51115	96.10126	350.99255	2.02896	0.1803571	0.27323160	2.3520620	21	—	—
138063 2000 DQ_{43}	16.3	X	231.73986	275.20926	7.78631	1.87666	0.0561822	0.22969126	2.6406230	21	1 14.7	20.2
138064 2000 DD_{45}	15.9	X	301.73111	8.94556	271.57965	1.63446	0.1441458	0.23725798	2.5841764	21	3 20.4	19.3
138065 2000 DB_{46}	16.6	X	216.52304	279.84855	258.67167	1.72463	0.1472736	0.26079347	2.4262650	21	11 17.7	20.0
138066 2000 DO_{47}	16.1	X	186.39350	145.12413	160.19700	13.62674	0.0424311	0.22692036	2.6620757	21	—	—
138067 2000 DX_{47}	16.2	X	199.81643	186.72529	7.70228	1.15110	0.1383895	0.26021361	2.4298682	21	11 20.6	19.8
138068 2000 DE_{51}	15.8	X	26.23558	16.25914	146.23312	5.90302	0.0754176	0.23465726	2.6032351	21	2 27.2	18.6
138069 2000 DY_{51}	14.8	X	227.01984	116.65836	153.69960	11.69621	0.1842840	0.17859983	3.1228325	21	—	—
138070 2000 DA_{53}	16.5	X	189.40187	308.43448	238.40632	1.66778	0.1455188	0.25800116	2.4437397	21	10 30.6	20.3
138071 2000 DH_{54}	15.5	X	118.13880	116.64831	166.79874	13.58191	0.2266166	0.21283312	2.7782836	21	12 18.9	20.5
138072 2000 DY_{54}	16.8	X	102.50891	174.13155	355.83384	0.91967	0.0979808	0.24504679	2.5291235	21	7 5.4	20.0
138073 2000 DJ_{56}	16.0	X	70.25161	76.84072	158.71339	3.54434	0.2639749	0.19895036	2.9060711	21	9 12.5	20.2
138074 2000 DD_{57}	15.7	X	308.67766	82.42195	172.48460	5.07783	0.1065621	0.23472357	2.6027447	21	3 2.5	19.1
138075 2000 DE_{57}	16.1	X	22.16033	78.30808	309.69386	1.49911	0.1879943	0.26492087	2.4009988	21	—	—
138076 2000 DQ_{57}	15.5	X	237.58485	319.05127	291.69390	2.29723	0.2685776	0.22297182	2.6934116	21	—	—
138077 2000 DV_{57}	16.3	X	254.27585	222.19806	233.73943	1.35024	0.1729756	0.25689253	2.4507653	21	9 10.2	19.6
138078 2000 DQ_{58}	15.9	X	192.85604	76.98942	175.97223	4.37354	0.0681411	0.22012427	2.7165900	21	—	—
138079 2000 DT_{58}	15.5	X	32.69526	209.20037	325.74468	3.53791	0.1780454	0.23630070	2.5911509	21	3 28.2	17.7
138080 2000 DA_{59}	16.1	X	354.07348	20.97154	337.66091	8.24916	0.0822750	0.25548208	2.4597771	21	10 12.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138081 2000 DM_{60}	16.0	X	127.46485	91.82628	350.03256	3.18615	0.2198607	0.24003851	2.5641815	21	4 22.2	19.9
138082 2000 DO_{61}	16.4	X	122.26901	102.00511	354.16207	3.67115	0.1492109	0.23995111	2.5648041	21	4 26.7	20.0
138083 2000 DL_{62}	15.6	X	160.74683	86.40355	164.67694	13.14122	0.1211532	0.21487641	2.7606429	21	12 16.7	20.2
138084 2000 DY_{62}	15.4	X	232.37819	61.91157	313.99965	2.29392	0.0587939	0.24225945	2.5484859	21	5 11.1	18.9
138085 2000 DZ_{62}	16.3	X	337.26523	242.54842	182.31405	2.37749	0.1976386	0.26438418	2.4042469	21	—	—
138086 2000 DD_{64}	16.4	X	75.92422	342.47731	185.81952	4.76554	0.1444488	0.24114993	2.5562969	21	6 4.2	19.6
138087 2000 DQ_{64}	16.1	X	293.21178	56.62638	194.13890	2.02169	0.0996460	0.23194839	2.6234642	21	2 7.1	19.6
138088 2000 DE_{66}	15.7	X	257.85980	354.12244	334.47573	4.72435	0.1563815	0.23872369	2.5735881	21	3 29.7	19.6
138089 2000 DQ_{67}	15.7	X	27.24344	290.23331	162.72920	14.89387	0.0530550	0.22591640	2.6699567	21	—	—
138090 2000 DS_{68}	16.0	X	6.48308	241.64298	204.73564	1.43777	0.1878726	0.27046781	2.3680580	21	—	—
138091 2000 DC_{69}	15.6	X	302.37332	218.92145	314.75940	2.93592	0.1502020	0.22404657	2.6847912	21	—	—
138092 2000 DY_{69}	15.7	X	285.38528	188.52427	9.96998	2.54826	0.1406690	0.22457192	2.6806025	21	—	—
138093 2000 DF_{72}	16.1	X	157.54769	297.63852	155.95515	7.52008	0.1608242	0.24391612	2.5369333	21	6 2.9	20.2
138094 2000 DR_{72}	15.8	X	209.21788	94.48114	148.53533	4.13358	0.1261014	0.21954033	2.7214050	21	—	—
138095 2000 DK_{79}	16.0	X	80.68683	2.55447	43.45749	60.67778	0.4143883	0.41618591	1.7766878	21	—	—
138096 2000 DL_{80}	15.8	X	171.37951	105.36888	128.46718	17.71210	0.1468734	0.21604639	2.7506672	21	12 7.9	20.5
138097 2000 DZ_{80}	16.1	X	22.37042	43.21687	57.45870	3.57384	0.1287307	0.27517929	2.3409504	21	—	—
138098 2000 DK_{81}	16.3	X	300.69998	306.31342	107.32174	7.90523	0.0969545	0.25902138	2.4373186	21	10 8.8	19.1
138099 2000 DT_{83}	15.6	X	345.07110	227.93507	6.83335	8.08218	0.1171617	0.23834132	2.5763399	21	3 27.5	18.2
138100 2000 DU_{84}	16.9	X	301.62090	287.49406	135.08068	2.69271	0.1922034	0.26114424	2.4240919	21	10 8.5	19.0
138101 2000 DM_{86}	15.8	X	323.38195	210.01382	23.73374	7.42209	0.0768186	0.23557900	2.5964403	21	3 2.5	19.1
138102 2000 DE_{90}	16.6	X	6.02218	76.64515	315.08933	3.93671	0.1993843	0.26620288	2.3932839	21	—	—
138103 2000 DK_{90}	16.7	X	314.80847	234.69606	180.79952	0.87258	0.1558932	0.26186973	2.4196126	21	10 28.6	18.7
138104 2000 DQ_{92}	15.7	X	233.95957	254.16826	40.61588	2.64009	0.1861319	0.22650524	2.6653273	21	1 28.3	20.0
138105 2000 DS_{93}	15.8	X	24.03880	144.51777	23.32922	2.71398	0.1837286	0.23547191	2.5972274	21	3 1.0	18.0
138106 2000 DB_{96}	15.1	X	175.91726	303.41015	313.27567	7.87823	0.2269127	0.21913290	2.7247772	21	—	—
138107 2000 DL_{96}	16.1	X	232.47114	116.40116	313.59695	6.92757	0.1950670	0.25352213	2.4724383	21	7 11.4	19.9
138108 2000 DC_{102}	15.0	X	156.78133	56.98784	147.12811	17.77381	0.0753600	0.20965681	2.8062740	21	10 21.7	19.5
138109 2000 DD_{102}	15.8	X	291.20303	304.91593	135.22617	8.72533	0.1677568	0.26010856	2.4305223	21	10 21.2	18.4
138110 2000 DW_{102}	16.9	X	265.45597	56.24115	79.82896	3.35266	0.1763706	0.26297254	2.4128433	21	11 22.1	19.3
138111 2000 DO_{106}	16.1	X	26.24236	140.79836	42.11272	5.50422	0.1565584	0.23598449	2.5934651	21	3 29.7	18.5
138112 2000 DB_{107}	15.4	X	48.16074	74.23958	29.86722	9.63514	0.0174332	0.22903345	2.6456767	21	1 15.5	19.1
138113 2000 DR_{110}	15.4	X	107.41305	55.30834	6.64167	21.98326	0.0567752	0.23138096	2.6277515	21	2 21.4	19.2
138114 2000 DK_{115}	16.6	X	122.44187	284.22597	191.70301	5.81142	0.2178195	0.24236919	2.5477165	21	6 1.4	20.5
138115 2000 DV_{116}	15.8	X	266.47010	340.23494	324.11220	12.97892	0.1413416	0.23808245	2.5782071	21	3 7.6	19.7
138116 2000 EZ	15.8	X	3.12304	50.37229	334.37111	6.11956	0.2545916	0.26568492	2.3963934	21	—	—
138117 2000 EJ_{2}	16.8	X	40.18957	234.90076	250.24124	0.47972	0.0428577	0.23173279	2.6250912	21	1 29.2	19.9
138118 2000 EA_{4}	15.6	X	241.54427	73.66790	56.85855	3.46537	0.1285086	0.25969139	2.4331246	21	10 19.4	18.8
138119 2000 EO_{4}	16.6	X	218.05222	334.57217	324.39752	3.52994	0.0121295	0.23174842	2.6249732	21	1 18.8	20.0
138120 2000 ED_{5}	15.8	X	35.43666	1.45624	161.70746	14.78651	0.0338310	0.23590603	2.5940401	21	3 14.1	19.0
138121 2000 EK_{8}	17.2	X	318.63613	159.77877	358.51972	1.16444	0.1209392	0.27269529	2.3551448	21	—	—
138122 2000 ER_{10}	15.9	X	47.33913	353.71682	149.90763	0.27178	0.1789420	0.19018557	2.9946840	21	3 23.9	19.2
138123 2000 ES_{10}	15.5	X	340.95987	121.96658	133.78022	11.37314	0.0947469	0.24064655	2.5598604	21	4 27.2	18.7
138124 2000 EG_{11}	16.5	X	79.23902	299.11847	207.49782	3.08051	0.1248822	0.24013539	2.5634918	21	5 6.1	19.4
138125 2000 EE_{12}	15.6	X	296.03546	342.07302	73.43511	7.21549	0.1087686	0.25799326	2.4437896	21	10 1.6	18.4
138126 2000 EC_{13}	15.2	X	43.96836	68.10863	120.33347	15.34380	0.0626952	0.24002699	2.5642636	21	5 7.9	18.6
138127 2000 EE_{14}	17.1	X	39.57216	197.83905	155.75610	26.46098	0.5331517	1.83074078	0.6617869	21	—	—
138128 2000 ES_{14}	15.6	X	314.54383	175.57252	42.15545	12.67075	0.2237491	0.23059472	2.6337213	21	1 7.1	19.5
138129 2000 EH_{17}	16.4	X	212.46476	289.40442	192.50720	4.31018	0.1453647	0.25318624	2.4746245	21	8 30.5	20.2
138130 2000 EO_{18}	15.5	X	70.62713	116.78577	67.73224	2.61269	0.0400254	0.24362493	2.5389544	21	6 1.8	18.7
138131 2000 ES_{20}	16.1	X	252.60057	248.57579	177.81563	22.73266	0.3392481	0.25654707	2.4529649	21	7 9.5	20.6
138132 2000 EZ_{20}	15.1	X	313.00318	280.33723	305.58703	12.36410	0.1279233	0.23162166	2.6259307	21	1 27.4	18.4
138133 2000 EY_{21}	16.8	X	218.02500	169.19638	156.88316	23.06647	0.0715183	0.37048477	1.9199466	21	1 27.0	19.2
138134 2000 ET_{22}	16.6	X	12.10724	225.41004	154.06765	2.44135	0.2348468	0.26548538	2.3975940	21	—	—
138135 2000 EV_{24}	15.7	X	188.98793	195.39499	184.29385	3.82702	0.1183710	0.23511794	2.5998335	21	3 29.5	19.6
138136 2000 EE_{29}	15.1	X	150.94865	338.72579	109.98942	13.46695	0.1324708	0.24174972	2.5520670	21	5 21.7	19.2
138137 2000 EW_{31}	16.4	X	106.26579	116.40245	357.08069	7.14253	0.1608840	0.24067106	2.5596867	21	4 30.6	19.9
138138 2000 EQ_{32}	15.8	X	43.61008	175.06132	1.72930	10.88180	0.1463471	0.23821877	2.5772234	21	4 17.9	18.5
138139 2000 EV_{43}	15.5	X	348.24138	149.04271	17.71890	4.15485	0.1524590	0.22793439	2.6541745	21	—	—
138140 2000 EZ_{43}	16.8	X	121.04709	336.63290	177.16660	3.65745	0.1723367	0.24444439	2.5332769	21	7 13.6	20.7
138141 2000 EV_{45}	16.1	X	86.98651	190.99042	354.94463	2.26678	0.1773257	0.24277706	2.5448623	21	7 19.5	19.5
138142 2000 EE_{50}	15.6	X	21.85830	166.90078	5.61420	13.33599	0.0972066	0.23633845	2.5908750	21	3 8.0	18.4
138143 2000 EL_{54}	17.2	X	64.17296	297.53676	179.50889	22.14405	0.0806446	0.36959688	1.9230202	21	1 17.4	19.3
138144 2000 EH_{56}	16.0	X	131.64586	133.78588	345.96143	6.65130	0.1573449	0.24302033	2.5431637	21	6 8.3	19.9
138145 2000 EO_{59}	16.7	X	192.85862	116.16517	153.16711	1.13604	0.0582699	0.26840852	2.3801547	21	—	—
138146 2000 EW_{60}	16.6	X	125.44024	175.40564	350.69980	6.47634	0.1718017	0.24618470	2.5213241	21	8 5.6	20.5
138147 2000 ER_{61}	16.7	X	109.12033	160.88556	352.38368	3.90984	0.1785046	0.24305082	2.5429510	21	7 1.7	20.4
138148 2000 EJ_{63}	16.2	X	292.35218	211.49144	20.81100	2.38218	0.1697038	0.27371423	2.3492963	21	—	—
138149 2000 EG_{64}	16.5	X	49.45742	53.03132	168.25006	4.99958	0.1954717	0.24131888	2.5551036	21	7 15.6	19.2
138150 2000 EY_{64}	16.6	X	125.74953	98.51829	358.35987	5.32392	0.1861374	0.23940394	2.5687106	21	5 5.4	20.5
138151 2000 EE_{66}	15.7	X	354.55517	152.96425	8.35634	13.23147	0.1356868	0.22868574	2.6483578	21	1 3.1	19.1
138152 2000 EO_{68}	16.3	X	133.61127	285.83317	218.63367	2.88538	0.1046344	0.24442503	2.5334107	21	7 8.7	19.9
138153 2000 EW_{68}	16.5	X	59.42896	54.65082	170.74589	5.36742	0.0920080	0.24342493	2.5403449	21	7 20.6	19.6
138154 2000 EO_{69}	15.8	X	268.22079	196.64195	355.10348	2.34093	0.1147893	0.22018081	2.7161249	21	—	—
138155 2000 ES_{70}	17.1	X	316.16995	281.61255	177.70762	25.45383	0.3193065	0.40527501	1.8084347	21	—	—
138156 2000 EE_{73}	16.6	X	120.93824	120.32302	340.37345	3.64121	0.1163636	0.24104120	2.5570656	21	4 26.4	20.1
138157 2000 EJ_{77}	15.7	X	291.02480	327.75882	96.14265	7.44956	0.1128441	0.25742355	2.4473938	21	10 4.9	18.5
138158 2000 ED_{82}	15.5	X	8.93091	97.97714	21.38157	8.33563	0.0459014	0.22655905	2.6649052	21	—	—
138159 2000 EC_{85}	15.9	X	252.81459	282.68866	256.05959	7.09882	0.1801870	0.26547536	2.3976543	21	12 30.8	18.7
138160 2000 ET_{87}	15.4	X	35.46523	116.84083	12.69558	13.05601	0.1214387	0.23058738	2.6337771	21	2 3.2	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138161 2000 EB_{88}	15.5	X	77.21935	242.12354	303.60788	16.60311	0.1159002	0.24348059	2.5399577	21	6 27.4	18.8
138162 2000 EH_{88}	15.0	X	256.51205	285.62313	303.74600	13.93133	0.0923987	0.22508840	2.6765004	21	—	—
138163 2000 EK_{93}	15.2	X	129.70485	301.26232	201.42268	14.21051	0.1186761	0.24477741	2.5309787	21	7 1.8	19.2
138164 2000 EG_{96}	15.6	X	232.25985	270.79369	355.60913	12.70349	0.1303842	0.22511676	2.6762756	21	—	—
138165 2000 EM_{96}	15.2	X	85.74204	116.05467	17.92106	13.84549	0.1245374	0.23914854	2.5705392	21	4 24.8	18.5
138166 2000 ER_{97}	15.3	X	337.13931	120.67087	35.31764	23.43849	0.2882131	0.27082124	2.3659972	21	—	—
138167 2000 EP_{99}	16.0	X	199.78038	359.84797	350.92316	2.04294	0.0682751	0.23396473	2.6083695	21	3 3.6	19.8
138168 2000 EK_{100}	17.1	X	111.03485	334.33814	188.69267	4.07419	0.0703050	0.24425400	2.5345932	21	7 2.4	20.6
138169 2000 EN_{100}	16.9	X	303.06917	95.55481	319.22741	1.72647	0.1637109	0.25678674	2.4514384	21	9 30.3	19.3
138170 2000 EP_{100}	16.6	X	341.64673	318.01019	275.70601	0.94841	0.0910052	0.23546018	2.5973137	21	3 23.6	19.7
138171 2000 EK_{102}	15.2	X	282.93800	181.77453	184.96781	5.46096	0.1756953	0.24673830	2.5175514	21	6 16.3	18.5
138172 2000 EU_{102}	15.9	X	142.27773	317.31632	344.44414	4.31686	0.1039447	0.21833217	2.7314351	21	—	—
138173 2000 ET_{103}	15.2	X	152.94016	325.50754	112.64649	13.41721	0.1290353	0.24043934	2.5613310	21	5 11.2	19.3
138174 2000 EV_{103}	16.1	X	77.44828	333.72343	235.49016	4.30941	0.1745174	0.24360877	2.5390666	21	8 5.4	19.4
138175 2000 EE_{104}	20.4	X	316.87271	280.95148	25.55215	5.23813	0.2931429	0.97950997	1.0041459	21	1 1.8*	19.0
138176 2000 EM_{105}	15.1	X	6.54440	65.74931	80.07312	9.43816	0.0649833	0.22748157	2.6576956	21	1 8.1	18.3
138177 2000 EP_{105}	15.6	X	25.96781	170.66182	33.35105	15.46285	0.0561287	0.23685884	2.5870788	21	4 24.2	18.7
138178 2000 EK_{106}	15.2	X	248.63836	116.66359	155.52269	14.98944	0.0809345	0.22686196	2.6625325	21	1 17.6	19.3
138179 2000 EY_{107}	14.9	X	227.36829	92.75766	175.65831	27.05762	0.2379555	0.22531309	2.6747207	21	—	—
138180 2000 EN_{110}	16.0	X	252.07334	87.47144	33.53748	9.89077	0.2019675	0.25914879	2.4365197	21	10 10.1	19.2
138181 2000 ET_{110}	15.4	X	109.26215	95.39456	25.36068	9.52459	0.0561439	0.23872598	2.5735716	21	4 30.0	18.8
138182 2000 EC_{111}	14.9	X	144.44274	239.67607	12.13419	24.77486	0.1707159	0.21094791	2.7948118	21	11 22.9	19.9
138183 2000 EF_{112}	14.8	X	260.67511	71.34869	296.70750	12.98866	0.1269390	0.24545618	2.5263105	21	5 26.2	18.5
138184 2000 EQ_{112}	16.2	X	337.53222	246.89418	265.09155	3.93140	0.1630162	0.27254118	2.3560326	21	—	—
138185 2000 EK_{113}	16.6	X	154.57987	246.94463	188.10804	4.60263	0.1969561	0.24125524	2.5555529	21	5 9.3	20.7
138186 2000 EB_{115}	15.8	X	204.18422	66.45379	177.87044	5.08487	0.1105748	0.21954584	2.7213595	21	—	—
138187 2000 EJ_{115}	15.8	X	160.18384	20.99953	345.99217	13.87935	0.0685187	0.23120017	2.6291212	21	2 11.5	19.6
138188 2000 EV_{115}	16.5	X	207.98918	50.14140	171.49069	2.06153	0.0180887	0.21815488	2.7329148	21	—	—
138189 2000 EZ_{115}	15.6	X	262.35286	154.63832	177.38110	5.63203	0.2392056	0.23852638	2.5750072	21	4 2.1	19.7
138190 2000 EK_{118}	15.2	X	51.86190	172.43973	14.95815	15.16593	0.0415397	0.24194241	2.5507118	21	5 4.5	18.6
138191 2000 EH_{119}	15.3	X	25.24713	151.69845	2.90432	21.91696	0.0299113	0.23411586	2.6072469	21	2 24.4	18.9
138192 2000 EA_{120}	15.4	X	204.69120	102.36081	45.00252	7.08733	0.0802396	0.25621935	2.4550561	21	10 4.3	18.8
138193 2000 ER_{124}	16.2	X	85.69865	141.00702	9.91588	5.43435	0.2180884	0.24071947	2.5593435	21	6 4.3	19.6
138194 2000 EA_{127}	15.8	X	79.37063	113.92465	20.84525	7.36080	0.1659646	0.23788427	2.5796388	21	4 25.1	18.9
138195 2000 EG_{128}	16.6	X	208.20386	199.18048	166.64587	23.45801	0.0938906	0.37526160	1.9036187	21	3 16.0	18.8
138196 2000 ES_{129}	14.9	X	213.38997	344.23884	8.57426	13.06250	0.1573993	0.23537658	2.5979286	21	3 20.9	19.0
138197 2000 EG_{131}	17.2	X	281.93403	74.58680	177.05176	22.66048	0.0582899	0.36893747	1.9253109	21	1 1.8	20.0
138198 2000 EV_{131}	15.1	X	170.11484	41.41618	4.26476	14.82981	0.0935047	0.23759087	2.5817621	21	4 7.6	18.9
138199 2000 EJ_{132}	16.3	X	91.00971	143.60048	349.46936	7.75713	0.1380864	0.23869829	2.5737706	21	5 3.1	19.7
138200 2000 EW_{137}	15.7	X	124.93789	324.90528	142.16612	14.64527	0.1426027	0.23939065	2.5688057	21	5 19.2	19.7
138201 2000 EZ_{137}	16.5	X	60.99765	54.45220	336.24924	2.27958	0.1939677	0.27055844	2.3675291	21	—	—
138202 2000 EG_{139}	15.9	X	219.99648	344.93482	333.46936	3.87757	0.1086118	0.23076795	2.6324030	21	2 13.3	20.0
138203 2000 EJ_{142}	16.3	X	331.06613	263.04806	152.82250	6.75885	0.1054701	0.26265081	2.4148133	21	12 2.3	18.8
138204 2000 EY_{146}	15.8	X	182.79004	51.02195	95.40305	9.52411	0.1809681	0.25253804	2.4788572	21	9 5.5	19.9
138205 2000 EZ_{148}	14.9	X	8.36051	305.86017	3.81089	11.18597	0.6129847	0.23744340	2.5828310	21	11 26.2	17.7
138206 2000 EJ_{149}	17.1	X	265.86899	74.63039	39.71466	2.88832	0.1659296	0.26116388	2.4239704	21	10 24.4	19.7
138207 2000 EN_{149}	16.6	X	310.56072	91.36328	88.70303	2.88751	0.1386764	0.27291617	2.3538740	21	—	—
138208 2000 EN_{162}	15.6	X	250.03334	327.39292	325.34988	1.26623	0.1252955	0.23119740	2.6291422	21	2 10.7	19.6
138209 2000 EK_{163}	15.5	X	276.60672	312.03230	170.23169	0.99654	0.1414439	0.17042806	3.2218747	21	11 7.6	19.8
138210 2000 EA_{166}	16.1	X	161.06391	65.55461	7.38117	2.87186	0.1209694	0.24109200	2.5567064	21	5 6.4	19.8
138211 2000 EF_{167}	15.3	X	303.02990	161.61593	4.70513	14.62386	0.0987540	0.22472982	2.6793467	21	—	—
138212 2000 EY_{172}	16.3	X	21.40236	309.25663	232.02875	3.17256	0.1706983	0.23466072	2.6032095	21	3 13.2	18.8
138213 2000 EL_{174}	15.8	X	328.46616	189.27874	276.32030	0.93786	0.0468854	0.17650697	3.1474691	21	—	—
138214 2000 EU_{178}	15.1	X	326.59836	80.00042	122.30156	15.63610	0.1090937	0.23164310	2.6257687	21	1 17.7	18.3
138215 2000 EJ_{181}	15.2	X	239.83475	315.72592	48.27965	9.77586	0.0872992	0.24249269	2.5468515	21	5 2.9	18.9
138216 2000 EG_{183}	14.8	X	322.83272	217.20140	19.08818	15.12899	0.0549809	0.23473722	2.6026439	21	3 11.2	18.3
138217 2000 EJ_{192}	16.7	X	302.30830	38.57911	192.34068	4.66915	0.2059464	0.22922902	2.6441717	21	1 10.7	20.6
138218 2000 EW_{193}	16.0	X	70.98529	85.65577	336.64331	5.52923	0.0177763	0.22628076	2.6670898	21	—	—
138219 2000 EF_{196}	16.8	X	175.85496	282.29201	190.65658	1.51949	0.0999975	0.24744925	2.5127269	21	7 13.5	20.6
138220 2000 ET_{196}	15.2	X	261.33477	343.68479	348.89224	15.22598	0.1111522	0.23809572	2.5781113	21	4 8.2	19.1
138221 Baldry	16.7	X	273.26764	87.35356	184.70771	4.62378	0.1311424	0.23048337	2.6345695	21	2 7.4	20.6
138222 2000 FU_{3}	15.7	X	287.26418	49.14299	77.81801	9.51503	0.1643077	0.26388874	2.4072553	21	12 19.3	17.9
138223 2000 FK_{6}	16.6	X	83.29031	140.17223	21.57246	3.62239	0.1510564	0.23936711	2.5689741	21	6 5.7	19.8
138224 2000 FB_{7}	16.1	X	250.75608	180.66876	197.85942	4.22388	0.0850764	0.24225071	2.5485472	21	6 4.7	19.7
138225 2000 FR_{8}	16.4	X	282.21571	81.63820	189.71044	7.13733	0.2031198	0.22900791	2.6458734	21	2 7.7	20.5
138226 2000 FV_{12}	14.4	X	274.19128	156.63167	50.83904	14.23278	0.1209957	0.22382589	2.6865556	21	—	—
138227 2000 FK_{16}	15.6	X	91.74027	53.55217	82.28512	4.20640	0.1647757	0.23937930	2.5688869	21	5 16.0	18.8
138228 2000 FG_{17}	15.7	X	2.98906	20.91652	66.73597	5.48808	0.2207022	0.26956439	2.3733459	21	—	—
138229 2000 FV_{18}	15.6	X	254.17482	329.39528	119.68271	10.66135	0.1822485	0.25418814	2.4681177	21	9 2.9	19.1
138230 2000 FE_{19}	15.3	X	198.23493	271.73269	51.05131	14.19493	0.0507637	0.22788948	2.6545233	21	1 30.8	19.4
138231 2000 FK_{20}	15.3	X	263.18500	1.15296	155.65199	14.23344	0.1541513	0.21668764	2.7452377	21	12 11.3	19.1
138232 2000 FV_{22}	15.9	X	327.12901	17.39044	203.96362	17.08243	0.2234419	0.22961918	2.6411756	21	1 21.7	19.8
138233 2000 FM_{23}	15.6	X	19.49264	92.40515	92.72549	12.53888	0.1382952	0.23385639	2.6091751	21	3 25.7	18.6
138234 2000 FN_{23}	15.3	X	182.13486	225.05963	74.85024	15.45814	0.0497281	0.22222825	2.6994163	21	—	—
138235 2000 FV_{24}	15.5	X	213.78946	158.17089	102.42889	10.43801	0.0640045	0.22093718	2.7099224	21	—	—
138236 2000 FA_{25}	15.6	X	176.85246	19.85037	63.25167	14.45331	0.0987486	0.24176613	2.5519514	21	6 4.4	19.5
138237 2000 FQ_{28}	15.5	X	26.82767	108.29234	359.67527	13.20799	0.1317707	0.22611526	2.6683910	21	—	—
138238 2000 FQ_{30}	15.4	X	323.78443	155.75271	26.27104	14.14496	0.1329942	0.22608950	2.6685937	21	—	—
138239 2000 FU_{32}	16.2	X	286.06732	0.24840	119.42080	3.78354	0.1377916	0.26172366	2.4205129	21	12 9.5	18.7
138240 2000 FP_{33}	15.8	X	304.36541	57.44730	69.47009	10.31685	0.1943543	0.26623775	2.3930749	21	—	—

* The additional opposition: 12 29.2, $V = 18.9$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138241 2000 FS_{33}	15.2	X	208.42919	270.05858	15.07578	11.22096	0.1533275	0.22299939	2.6931896	21	—	—
138242 2000 FW_{33}	15.6	X	328.18307	47.54572	128.60458	2.87327	0.0245747	0.22640416	2.6661205	21	—	—
138243 2000 FQ_{35}	15.7	X	257.50022	212.51602	30.25461	14.11719	0.0957122	0.22423056	2.6833223	21	—	—
138244 2000 FJ_{38}	16.1	X	53.66257	41.42730	169.67752	5.68063	0.0976073	0.24053769	2.5606328	21	6 22.6	19.2
138245 2000 FG_{40}	15.2	X	226.65703	31.88099	157.99784	8.38094	0.2004232	0.21411936	2.7671461	21	12 1.1	19.5
138246 2000 FZ_{46}	15.3	X	212.99022	182.98643	68.52894	10.66103	0.1753936	0.21857959	2.7293736	21	—	—
138247 2000 FN_{50}	16.3	X	160.25758	31.77300	338.81359	1.87133	0.1166659	0.22912838	2.6449459	21	2 17.8	20.1
138248 2000 FP_{53}	16.5	X	262.17104	75.64426	199.69628	1.39588	0.1704419	0.22701503	2.6613356	21	1 29.3	20.6
138249 2000 FL_{56}	15.5	X	40.61271	68.23580	37.01361	9.94130	0.0789471	0.22722195	2.6597197	21	1 6.1	18.8
138250 2000 FS_{56}	16.2	X	61.50172	112.89338	67.70279	5.62197	0.0964352	0.23862015	2.5743325	21	5 22.2	19.2
138251 2000 FH_{57}	15.9	X	227.79800	94.61678	145.57082	5.42305	0.0915738	0.22134797	2.7065685	21	—	—
138252 2000 FM_{58}	15.8	X	91.68494	20.60514	50.93997	3.63956	0.0984142	0.22956169	2.6416166	21	2 10.3	19.0
138253 2000 FB_{60}	16.8	X	244.82009	26.71456	117.30823	3.41962	0.1434773	0.25908817	2.4368997	21	11 8.7	19.9
138254 2000 FD_{61}	15.3	X	256.96001	202.55353	120.00612	15.17123	0.1122850	0.23389233	2.6089078	21	4 3.3	19.4
138255 2000 FJ_{69}	16.4	X	70.52792	14.29040	185.62122	6.30781	0.0847776	0.24216869	2.5491226	21	6 30.1	19.7
138256 2000 FR_{69}	16.0	X	118.24212	238.40645	192.36666	14.64445	0.0604907	0.23199702	2.6230976	21	3 6.9	19.7
138257 2000 FR_{70}	16.7	X	185.35969	230.44098	194.49239	8.56850	0.1607158	0.24160385	2.5530940	21	5 23.5	20.9
138258 2000 GD_{2}	19.1	X	227.07510	16.97301	358.12131	32.13784	0.4767476	1.49422398	0.7577494	21	—	—
138259 2000 GQ_{3}	17.1	X	301.72495	266.76326	29.33983	22.28865	0.0691201	0.37412698	1.9074655	21	4 10.5	18.8
138260 2000 GS_{3}	16.8	X	269.85099	128.43224	208.41573	21.40038	0.1416015	0.37450633	1.9061772	21	4 12.4	19.0
138261 2000 GR_{4}	15.4	X	113.85781	138.52878	11.48934	26.91879	0.1974493	0.24363223	2.5389037	21	7 9.4	19.9
138262 2000 GM_{9}	15.4	X	47.73079	107.00424	345.33309	3.97766	0.0655050	0.22771486	2.6558801	21	—	—
138263 2000 GW_{9}	15.8	X	187.48163	105.77277	355.18252	5.19715	0.0520844	0.24615061	2.5215569	21	7 12.6	19.4
138264 2000 GQ_{11}	16.3	X	211.66401	278.49683	153.85860	0.99841	0.1322443	0.24658620	2.5185865	21	6 27.2	20.0
138265 2000 GY_{13}	16.1	X	58.74526	80.44076	18.86983	4.66209	0.0700496	0.22894578	2.6463521	21	1 25.9	19.4
138266 2000 GC_{14}	15.7	X	327.62697	146.54381	18.25502	8.49183	0.0718614	0.22497878	2.6773697	21	—	—
138267 2000 GQ_{15}	15.7	X	150.17569	248.86714	196.25903	14.47880	0.0869431	0.23908108	2.5710227	21	5 10.4	19.5
138268 2000 GR_{15}	15.8	X	298.14396	283.40217	209.58782	4.49732	0.2318051	0.26582175	2.3955710	21	—	—
138269 2000 GY_{15}	16.0	X	88.65196	275.71889	198.06634	6.02534	0.1226795	0.23510526	2.5999270	21	4 4.2	19.3
138270 2000 GZ_{15}	15.3	X	160.60777	28.67171	8.73644	14.62722	0.1110971	0.23357516	2.6112690	21	3 23.5	19.2
138271 2000 GS_{16}	15.9	X	112.57097	346.28438	358.96315	2.04315	0.0769362	0.21925612	2.7237562	21	—	—
138272 2000 GX_{17}	16.5	X	83.40505	107.33188	25.62455	4.42088	0.1973522	0.23735169	2.5834962	21	5 4.3	19.7
138273 2000 GL_{19}	16.5	X	233.10293	153.17747	338.80725	1.85076	0.1165996	0.25556434	2.4592492	21	10 10.3	19.9
138274 2000 GY_{19}	16.4	X	68.58953	187.17386	11.80372	2.42257	0.0729328	0.24143616	2.5542761	21	6 24.6	19.6
138275 2000 GG_{20}	15.2	X	239.90440	125.78946	192.56116	11.80975	0.1912151	0.23003170	2.6380170	21	2 26.2	19.6
138276 2000 GL_{21}	16.8	X	231.09593	128.19413	170.80746	22.01940	0.0545925	0.36729836	1.9310346	21	1 5.0	19.6
138277 2000 GT_{23}	15.6	X	307.55431	112.70491	3.29911	2.58483	0.0341866	0.21566115	2.7539419	21	—	—
138278 2000 GY_{23}	15.6	X	116.59017	355.04791	349.07840	1.75393	0.2449267	0.21741290	2.7391292	21	—	—
138279 2000 GB_{24}	15.6	X	209.98772	166.28908	205.59922	3.18777	0.1566084	0.23533914	2.5982042	21	4 8.6	19.7
138280 2000 GC_{24}	15.2	X	138.71985	11.38466	13.28217	9.16387	0.2070531	0.22841181	2.6504748	21	2 25.4	19.3
138281 2000 GM_{25}	16.2	X	62.60659	151.05924	6.92985	2.33693	0.1097571	0.23618797	2.5919753	21	4 23.0	19.2
138282 2000 GA_{30}	15.0	X	234.26302	51.26221	198.77084	11.40730	0.1405469	0.22108056	2.7087505	21	—	—
138283 2000 GP_{30}	16.1	X	52.85575	52.40361	20.57225	2.03613	0.0672179	0.22358148	2.6885132	21	—	—
138284 2000 GS_{30}	15.9	X	68.20320	312.94100	186.84832	2.85645	0.1040676	0.23469335	2.6029682	21	4 6.6	18.7
138285 2000 GF_{31}	15.6	X	355.72508	27.09465	188.26875	4.63027	0.2311782	0.23312882	2.6146009	21	3 3.6	18.1
138286 2000 GO_{32}	16.4	X	20.81091	33.46550	64.91775	0.65459	0.1942249	0.27118135	2.3639022	21	—	—
138287 2000 GB_{33}	16.1	X	355.84441	268.99933	210.43098	6.06157	0.0994240	0.22267543	2.6958011	21	—	—
138288 2000 GH_{33}	16.6	X	47.66887	12.82293	211.97086	4.52463	0.1950727	0.24044394	2.5612983	21	7 17.2	19.3
138289 2000 GS_{33}	16.2	X	237.15847	31.50824	263.44745	1.20993	0.0676759	0.22751679	2.6574213	21	2 3.5	20.2
138290 2000 GW_{33}	16.3	X	132.93558	178.29578	321.34394	1.27536	0.0929314	0.24265862	2.5456903	21	6 30.9	19.9
138291 2000 GF_{34}	16.2	X	111.61171	250.56506	196.15736	5.21783	0.2216299	0.23528060	2.5986351	21	4 13.5	19.9
138292 2000 GE_{37}	16.3	X	180.06055	72.68640	12.14626	2.06254	0.1033778	0.24213261	2.5493758	21	6 10.9	20.1
138293 2000 GF_{37}	15.7	X	95.48494	308.82443	21.50182	4.07875	0.0747721	0.21425436	2.7659836	21	—	—
138294 2000 GC_{38}	15.9	X	11.12115	76.95847	51.59378	2.50407	0.0537732	0.22512494	2.6762107	21	—	—
138295 2000 GZ_{39}	14.9	X	302.19014	287.05004	199.49491	10.23238	0.0418216	0.16932696	3.2358272	21	12 27.3	19.5
138296 2000 GE_{40}	16.6	X	297.17486	77.66925	20.79801	5.44404	0.1619541	0.25973005	2.4328831	21	11 24.3	18.8
138297 2000 GQ_{41}	15.7	X	182.27576	233.81901	16.81014	9.17263	0.1079002	0.21456381	2.7633235	21	—	—
138298 2000 GG_{46}	16.5	X	152.91452	100.26820	31.43156	5.11679	0.1137464	0.24417235	2.5351581	21	7 15.3	20.3
138299 2000 GH_{46}	15.1	X	318.62549	29.51648	195.81077	11.69511	0.1273104	0.22912591	2.6449649	21	1 31.4	18.8
138300 2000 GX_{48}	16.5	X	116.17107	240.80329	16.78957	6.86576	0.2496111	0.20563433	2.8427520	21	11 15.9	21.4
138301 2000 GO_{49}	15.6	X	72.15881	86.63309	199.59807	10.52173	0.1140992	0.20423688	2.8557046	21	10 29.0	19.6
138302 2000 GH_{53}	16.3	X	59.69567	303.07128	209.58881	3.39078	0.2181644	0.23544616	2.5974168	21	4 27.7	18.7
138303 2000 GB_{54}	16.5	X	140.41684	303.52964	191.01527	3.41138	0.1718596	0.24337033	2.5407248	21	7 8.0	20.5
138304 2000 GE_{55}	16.3	X	262.43964	10.95839	204.40167	4.06548	0.2018037	0.22055721	2.7130338	21	—	—
138305 2000 GV_{57}	15.5	X	239.04613	168.64803	10.99627	4.86790	0.0877695	0.21368417	2.7709019	21	12 15.3	19.3
138306 2000 GK_{59}	16.2	X	16.02533	139.16260	118.19237	1.79938	0.1888503	0.19200053	2.9757819	21	7 2.2	19.2
138307 2000 GT_{59}	16.3	X	354.35854	29.53741	182.12313	3.35520	0.1228211	0.23200030	2.6230729	21	3 10.8	19.1
138308 2000 GN_{60}	15.7	X	173.68992	242.86001	24.43796	8.43754	0.2578030	0.21314655	2.7755593	21	—	—
138309 2000 GY_{60}	16.1	X	195.31502	180.27049	2.86353	2.24599	0.1537558	0.25574483	2.4580920	21	10 30.6	19.9
138310 2000 GH_{61}	15.9	X	353.34265	159.31052	5.31450	2.31254	0.0717946	0.22698126	2.6615995	21	1 13.1	19.2
138311 2000 GG_{63}	15.4	X	159.02734	187.95446	20.33142	11.25297	0.0756978	0.20640497	2.8356717	21	10 22.3	19.8
138312 2000 GY_{63}	15.8	X	191.44838	243.97828	29.45668	5.28786	0.1210064	0.21729471	2.7401223	21	—	—
138313 2000 GH_{69}	15.7	X	8.95721	327.59119	191.47725	3.35978	0.1231656	0.22794197	2.6541157	21	1 22.4	18.7
138314 2000 GG_{70}	15.1	X	143.34324	293.50103	17.32036	5.93532	0.1301437	0.21487115	2.7606879	21	—	—
138315 2000 GQ_{71}	15.3	X	54.80700	64.54311	36.76693	13.50542	0.0516951	0.22557627	2.6726398	21	1 25.2	18.9
138316 2000 GG_{73}	16.3	X	51.63859	332.57156	230.35421	2.19497	0.1598385	0.23816657	2.5775999	21	6 16.9	18.9
138317 2000 GN_{74}	15.0	X	173.10191	105.31761	208.70255	3.25181	0.1743752	0.21810929	2.7332956	21	—	—
138318 2000 GZ_{74}	15.9	X	30.42421	96.57427	49.52881	4.44403	0.1111167	0.22883205	2.6472288	21	2 14.2	18.9
138319 2000 GL_{77}	16.5	X	41.25179	162.47594	34.87781	3.11613	0.1171267	0.23654822	2.5893431	21	5 14.4	19.4
138320 2000 GR_{79}	15.7	X	11.29284	109.59092	30.87464	7.85914	0.1348367	0.22562872	2.6722257	21	1 2.2	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138321 2000 GJ_{80}	16.6	X	343.80217	201.74455	342.72289	2.19597	0.1475529	0.27481476	2.3430201	21	1 1.8	19.3
138322 2000 GP_{81}	15.7	X	60.86569	324.35131	202.06196	11.83056	0.1308765	0.23538305	2.5978811	21	5 7.3	18.6
138323 2000 GT_{81}	16.6	X	357.30702	199.02057	28.74432	23.11736	0.0516262	0.37351109	1.9095618	21	4 1.0	18.3
138324 2000 GC_{82}	16.3	X	40.81902	286.62898	209.15326	20.50732	0.0747257	0.36839835	1.9271888	21	1 2.5	18.5
138325 2000 GO_{82}	16.8	X	210.21891	164.43417	173.32233	25.74282	0.8051261	0.30998327	2.1622731	21	2 23.2	22.5
138326 2000 GX_{86}	16.5	X	70.98281	56.18944	118.98274	5.03408	0.1656862	0.23948924	2.5681007	21	6 10.0	19.5
138327 2000 GY_{89}	15.6	X	249.38274	231.61103	49.18074	12.41644	0.0249516	0.22789106	2.6545110	21	2 7.9	19.5
138328 2000 GC_{90}	15.9	X	48.73424	347.42666	170.51155	12.24992	0.0976412	0.23341101	2.6124932	21	4 1.3	18.8
138329 2000 GG_{90}	15.1	X	54.27971	39.32748	67.68008	22.76271	0.0205373	0.22760290	2.6567510	21	1 30.1	19.0
138330 2000 GE_{91}	14.8	X	231.15798	154.27647	50.58248	19.34947	0.0684651	0.21542731	2.7559344	21	—	—
138331 2000 GU_{93}	15.1	X	244.49255	140.47065	68.01039	12.68725	0.1514578	0.21803820	2.7338897	21	—	—
138332 2000 GJ_{94}	14.9	X	160.85347	267.99351	159.07650	14.64962	0.1044968	0.23615833	2.5921922	21	5 2.8	19.0
138333 2000 GK_{97}	16.0	X	347.07605	127.08744	79.46492	3.38548	0.1304479	0.23223699	2.6212903	21	2 20.6	19.0
138334 2000 GW_{98}	15.9	X	123.45909	179.02375	333.54606	4.46565	0.2037778	0.24388091	2.5371774	21	7 18.7	19.8
138335 2000 GW_{100}	15.9	X	289.99721	48.68022	142.19261	3.98433	0.0415613	0.22280589	2.6947487	21	—	—
138336 2000 GJ_{102}	15.6	X	295.26133	47.29408	205.52496	9.43588	0.1053871	0.22992646	2.6388219	21	2 9.3	19.4
138337 2000 GS_{104}	15.8	X	81.60669	359.50395	150.98056	4.99672	0.1316921	0.23726018	2.5841605	21	5 17.6	19.0
138338 2000 GC_{105}	16.1	X	102.97840	83.25940	58.77162	5.69663	0.1811417	0.23952387	2.5678531	21	6 9.1	19.6
138339 2000 GT_{105}	15.8	X	59.77595	160.06059	352.22962	4.03229	0.2165203	0.23540667	2.5977073	21	4 25.2	18.5
138340 2000 GB_{110}	16.4	X	287.29184	63.52664	94.42283	2.09802	0.1174882	0.26508080	2.4000329	21	—	—
138341 2000 GD_{110}	16.1	X	205.34264	72.06970	53.87829	4.32371	0.1300046	0.25071251	2.4908756	21	9 1.8	19.9
138342 2000 GF_{110}	16.0	X	76.28500	161.23508	30.15352	11.29187	0.1225753	0.24131293	2.5551456	21	7 4.2	19.5
138343 2000 GF_{112}	15.5	X	138.42597	101.63880	176.79441	12.81808	0.1966446	0.21166297	2.7885137	21	12 26.9	20.5
138344 2000 GN_{112}	15.3	X	97.18947	34.22705	18.77211	14.83361	0.0786249	0.22762452	2.6565828	21	1 26.3	19.0
138345 2000 GW_{112}	15.7	X	21.60992	300.03084	189.18584	13.83910	0.0339358	0.22659034	2.6646599	21	1 8.0	19.4
138346 2000 GL_{113}	15.7	X	33.37262	273.20231	234.19541	10.69586	0.2094180	0.23183144	2.6243464	21	2 13.2	18.3
138347 2000 GB_{114}	15.7	X	88.15786	183.84746	352.35897	6.00028	0.1422468	0.24112039	2.5565057	21	7 2.4	19.2
138348 2000 GN_{114}	15.7	X	55.18366	237.34454	293.15858	2.51430	0.1231732	0.23675456	2.5878384	21	4 29.7	18.5
138349 2000 GK_{115}	16.1	X	140.63260	11.36258	108.32810	3.55297	0.1584075	0.24351757	2.5397006	21	6 18.5	19.9
138350 2000 GT_{115}	15.7	X	290.75159	204.24652	24.54571	12.05077	0.1285431	0.22655900	2.6649056	21	1 7.9	19.8
138351 2000 GF_{116}	15.8	X	64.22896	352.94682	168.55643	7.85086	0.1130682	0.23662239	2.5888019	21	5 4.1	18.9
138352 2000 GS_{116}	15.0	X	208.15421	352.64606	354.25360	15.01978	0.2012723	0.23304568	2.6152227	21	3 8.9	19.3
138353 2000 GX_{117}	16.0	X	356.14455	75.75464	352.52991	7.96031	0.2293556	0.26661266	2.3908309	21	—	—
138354 2000 GF_{118}	16.1	X	77.71476	137.05434	0.16181	14.86426	0.0367693	0.23662178	2.5888064	21	4 4.4	19.5
138355 2000 GH_{118}	15.4	X	57.76048	79.81369	1.84105	13.40977	0.0642715	0.22726454	2.6593873	21	1 1.5	18.9
138356 2000 GW_{121}	15.4	X	91.07285	270.69309	101.25290	9.47570	0.1611421	0.21514418	2.7583517	21	—	—
138357 2000 GB_{123}	16.5	X	167.98350	22.84297	55.77174	22.92107	0.0884892	0.37809198	1.8941065	21	5 13.1	18.5
138358 2000 GL_{127}	15.5	X	294.97860	151.21285	99.02685	14.05900	0.1516016	0.22803949	2.6533589	21	2 5.3	19.4
138359 2000 GX_{127}	17.9	X	295.75444	4.72193	43.99484	20.23771	0.3612371	0.80818187	1.1414669	21	—	—
138360 2000 GA_{130}	16.7	X	136.42934	287.06840	159.32938	0.99194	0.0658080	0.23647352	2.5898883	21	4 22.2	20.2
138361 2000 GZ_{131}	16.4	X	195.08738	210.87373	185.08855	4.66324	0.0753592	0.23707002	2.5855422	21	4 25.6	20.2
138362 2000 GP_{132}	16.5	X	207.21393	8.30786	33.44575	21.34376	0.0678413	0.37726860	1.8968614	21	5 3.3	18.6
138363 2000 GO_{137}	15.3	X	39.44457	19.78640	91.58643	17.20104	0.0934216	0.22453543	2.6808929	21	1 12.3	18.4
138364 2000 GU_{138}	14.9	X	136.64477	337.52089	126.88734	8.55501	0.1789557	0.23993034	2.5649522	21	5 29.3	18.9
138365 2000 GG_{139}	14.9	X	192.96429	227.03315	99.77553	10.61427	0.2508132	0.22290819	2.6939241	21	2 4.3	19.7
138366 2000 GH_{139}	15.4	X	166.91870	240.10971	63.11424	15.10175	0.0856074	0.21898777	2.7259809	21	—	—
138367 2000 GJ_{139}	16.1	X	117.29265	82.14781	70.58868	9.39505	0.1194916	0.24216310	2.5491618	21	7 2.9	19.8
138368 2000 GE_{140}	15.4	X	164.37111	187.63893	108.87166	5.86159	0.2417571	0.21511042	2.7586404	21	—	—
138369 2000 GL_{140}	16.2	X	280.17883	41.16770	109.24425	3.51276	0.1328002	0.26304060	2.4124271	21	—	—
138370 2000 GS_{143}	15.5	X	280.75109	156.18728	55.71307	11.68952	0.0453795	0.22251275	2.6971149	21	—	—
138371 2000 GK_{144}	15.8	X	14.37861	286.96735	14.05278	1.57542	0.0786126	0.19830088	2.9124130	21	8 22.7	19.5
138372 2000 GN_{144}	15.7	X	3.32620	15.95808	18.95885	1.07018	0.1096136	0.21045285	2.7991930	21	12 12.6	18.9
138373 2000 GQ_{150}	15.4	X	229.89520	194.18502	185.60365	4.94408	0.3029574	0.23945869	2.5683191	21	4 30.6	20.0
138374 2000 GA_{151}	16.8	X	128.57807	111.07108	187.22417	2.17754	0.1618134	0.21316355	2.7754118	21	—	—
138375 2000 GS_{151}	16.3	X	121.76596	95.02159	14.21528	3.43384	0.0873680	0.23610926	2.5925514	21	5 6.0	19.7
138376 2000 GV_{152}	15.7	X	84.91725	191.75612	297.61149	3.62193	0.1687018	0.23619981	2.5918887	21	4 25.9	19.0
138377 2000 GX_{153}	15.6	X	333.22986	132.86188	1.44685	23.95945	0.2060482	0.26971259	2.3724764	21	—	—
138378 2000 GP_{154}	16.4	X	322.81685	279.47502	299.47825	4.85084	0.1537867	0.22969495	2.6405947	21	1 27.6	19.6
138379 2000 GD_{157}	15.8	X	138.25019	156.44264	206.52271	5.48412	0.0412173	0.22215288	2.7000269	21	1 5.5	19.6
138380 2000 GM_{157}	15.0	X	262.40605	308.62774	268.46911	11.66650	0.1455955	0.22327813	2.6909477	21	—	—
138381 2000 GL_{162}	15.2	X	6.65540	147.28446	63.17348	14.94255	0.1444945	0.23560402	2.5962565	21	4 6.9	18.1
138382 2000 GM_{162}	15.2	X	93.23510	89.34324	31.38920	14.09843	0.0839914	0.23657206	2.5891691	21	4 15.3	18.6
138383 2000 GA_{163}	15.4	X	143.21836	193.44356	94.33073	10.97897	0.2020153	0.21215599	2.7841921	21	—	—
138384 2000 GJ_{164}	16.6	X	72.39068	224.58974	299.19456	1.37533	0.1404508	0.23944202	2.5684383	21	5 21.8	19.6
138385 2000 GZ_{168}	16.5	X	59.80578	140.95414	51.59182	22.56873	0.0268677	0.37860582	1.8923924	21	5 15.6	18.0
138386 2000 GF_{169}	15.2	X	165.63386	247.56949	56.19417	13.93788	0.1738563	0.21710353	2.7417307	21	—	—
138387 2000 GY_{172}	14.7	X	158.95647	339.12700	33.34734	14.11368	0.1686574	0.22866415	2.6485245	21	3 2.1	19.0
138388 2000 GX_{173}	13.6	X	332.89713	190.26057	265.41295	7.69493	0.1347244	0.12536146	3.9539092	21	12 19.6	18.5
138389 2000 GS_{174}	15.8	X	38.04963	245.53645	206.20021	1.64305	0.0659101	0.22321150	2.6914832	21	—	—
138390 2000 GB_{175}	16.0	X	29.99362	303.59501	187.48660	3.45635	0.0294140	0.22639312	2.6662072	21	1 23.2	19.5
138391 2000 GK_{177}	16.1	X	157.35199	158.90095	168.25314	3.95702	0.0738795	0.22379020	2.6868412	21	—	—
138392 2000 HY	15.3	X	353.96785	84.52349	28.05186	4.18334	0.1144799	0.21988507	2.7185598	21	—	—
138393 2000 HF_{3}	15.8	X	165.07237	6.94305	37.64357	8.88987	0.1893451	0.23205280	2.6226772	21	4 11.5	20.0
138394 2000 HA_{4}	15.9	X	42.17827	225.51835	219.03728	1.84495	0.0420985	0.22055723	2.7130337	21	—	—
138395 2000 HD_{5}	15.8	X	127.65993	271.79601	221.67451	28.64221	0.1746964	0.24003666	2.5641947	21	6 20.1	20.2
138396 2000 HV_{7}	15.3	X	290.73232	98.78400	47.66964	9.47541	0.0879839	0.21617144	2.7496062	21	—	—
138397 2000 HB_{11}	15.4	X	290.19641	100.58011	62.53045	4.17014	0.1019344	0.21722736	2.7406887	21	—	—
138398 2000 HG_{11}	15.5	X	165.69488	196.70943	79.32038	3.17810	0.1536700	0.21284503	2.7781800	21	—	—
138399 2000 HK_{11}	15.5	X	198.11404	54.19926	20.05211	15.07391	0.1245793	0.24299545	2.5433373	21	6 14.1	19.7
138400 2000 HL_{12}	15.5	X	340.65557	195.81977	40.40337	16.21692	0.0891575	0.23183026	2.6243553	21	4 2.4	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138401 2000 HB_{13}	15.0	X	186.05355	88.56867	231.34303	16.59937	0.1890431	0.21934625	2.7230100	21	1 14.3	19.8
138402 2000 HN_{14}	16.4	X	266.39602	287.53784	130.84671	7.15186	0.1538664	0.38708887	1.8646426	21	8 17.3	17.6
138403 2000 HM_{21}	15.5	X	29.71481	120.72361	71.05054	8.27240	0.1455163	0.23387613	2.6090283	21	4 20.7	18.1
138404 2000 HA_{24}	19.1	X	246.48128	142.14136	309.39832	2.16483	0.3185684	0.81078965	1.1390180	21	—	—
138405 2000 HV_{24}	15.6	X	149.26410	94.07609	33.74678	17.99836	0.1301890	0.24188244	2.5511333	21	7 7.5	19.9
138406 2000 HN_{27}	14.8	X	281.97020	339.58383	207.86012	36.03371	0.1360526	0.22114785	2.7082010	21	—	—
138407 2000 HR_{27}	16.5	X	15.38711	299.31220	222.85507	21.08760	0.0705016	0.36838189	1.9272462	21	—	—
138408 2000 HY_{28}	15.7	X	353.37513	75.59864	83.89902	22.85037	0.2442425	0.27582187	2.3373132	21	—	—
138409 2000 HH_{30}	15.4	X	204.68789	124.39990	152.89958	13.53187	0.2019774	0.21832173	2.7315222	21	—	—
138410 2000 HV_{31}	15.1	X	358.93514	39.28482	92.13315	22.85466	0.0595597	0.22288242	2.6941318	21	—	—
138411 2000 HY_{33}	16.6	X	340.89847	53.65966	193.64168	21.93895	0.0264059	0.37679594	1.8984474	21	3 29.1	18.0
138412 2000 HD_{34}	15.3	X	278.17294	219.83355	356.50059	12.86404	0.1074347	0.22545732	2.6735798	21	—	—
138413 2000 HW_{39}	15.6	X	170.77297	185.39964	183.52207	13.26216	0.2729763	0.23144442	2.6272712	21	3 5.8	20.3
138414 2000 HY_{41}	15.9	X	132.47028	254.29895	223.82997	3.25794	0.1627384	0.24102134	2.5572060	21	6 8.6	19.7
138415 2000 HM_{44}	16.0	X	279.35721	183.91689	72.97923	5.46700	0.1644947	0.22619691	2.6677488	21	1 25.8	20.2
138416 2000 HB_{45}	16.3	X	334.23245	118.09537	115.56543	2.93386	0.1371771	0.23143234	2.6273626	21	3 8.0	19.3
138417 2000 HN_{48}	16.2	X	343.44814	225.34574	349.60969	1.48865	0.1455856	0.22983095	2.6395529	21	2 23.2	19.3
138418 2000 HZ_{48}	15.5	X	64.06596	142.63959	48.71301	10.41231	0.1419358	0.23796685	2.5790419	21	6 16.9	18.6
138419 2000 HU_{56}	15.4	X	348.45782	85.19787	200.41325	13.61977	0.2562825	0.19034123	2.9930512	21	6 8.2	18.4
138420 2000 HA_{57}	15.3	X	133.36553	114.51485	54.54270	14.35040	0.1305793	0.24452406	2.5327266	21	8 19.4	19.4
138421 2000 HJ_{59}	16.2	X	145.47920	230.85384	22.27420	6.60285	0.1727397	0.25456760	2.4656644	21	12 8.4	20.3
138422 2000 HP_{60}	15.9	X	305.11851	205.12977	26.29309	3.99890	0.0354411	0.22728264	2.6592461	21	2 9.5	19.4
138423 2000 HB_{64}	16.3	X	160.50432	119.56491	25.75033	6.34626	0.1437548	0.24653730	2.5189195	21	8 12.6	20.3
138424 2000 HP_{66}	16.1	X	73.07477	65.23613	36.12078	2.53600	0.0745703	0.22790929	2.6543694	21	2 19.3	19.3
138425 2000 HV_{68}	15.5	X	129.20835	320.94491	30.55496	7.06977	0.1942679	0.21752985	2.7381473	21	1 3.9	19.5
138426 2000 HY_{69}	15.3	X	185.82793	4.32028	226.31603	11.71892	0.1009588	0.21263460	2.7800126	21	12 16.3	19.6
138427 2000 HG_{75}	15.0	X	172.00280	123.30752	205.55807	16.65994	0.1459888	0.22003583	2.7173178	21	1 10.6	19.6
138428 2000 HG_{77}	15.1	X	310.18807	251.18349	55.72681	14.65327	0.1528526	0.24084407	2.5584607	21	5 7.8	18.0
138429 2000 HP_{77}	15.3	X	80.75889	356.92224	123.24046	14.45580	0.1079668	0.23522728	2.5990278	21	4 6.0	18.8
138430 2000 HS_{80}	15.4	X	193.34538	68.03320	131.46069	7.83190	0.1062019	0.20916346	2.8106849	21	11 18.4	19.8
138431 2000 HZ_{81}	15.2	X	111.80275	320.66467	38.17338	9.78394	0.1786739	0.21667823	2.7453172	21	—	—
138432 2000 HM_{82}	15.9	X	358.74948	272.10638	196.61089	3.31380	0.0578526	0.21897662	2.7260734	21	—	—
138433 2000 HV_{82}	16.0	X	351.29266	193.63620	23.97037	4.41541	0.0772885	0.23118993	2.6291989	21	3 20.6	19.0
138434 2000 HF_{83}	16.1	X	83.31685	177.32176	64.12110	4.11835	0.1188603	0.24481479	2.5307211	21	9 21.5	19.6
138435 2000 HX_{87}	15.2	X	183.28955	238.66887	60.33924	9.77239	0.1205329	0.21811111	2.7332805	21	—	—
138436 2000 HA_{89}	16.1	X	130.13888	252.33532	210.72348	10.10491	0.1004872	0.23629232	2.5912122	21	5 11.3	19.7
138437 2000 HN_{89}	14.6	X	112.12979	286.32788	50.49259	20.79186	0.2187511	0.21172424	2.7879758	21	—	—
138438 2000 HG_{95}	15.9	X	27.38008	278.51939	298.66080	5.18950	0.2097395	0.23726551	2.5841218	21	5 25.1	18.2
138439 2000 HD_{98}	15.9	X	157.00185	205.29760	200.17291	13.42957	0.0977898	0.23154989	2.6264733	21	3 26.4	19.9
138440 2000 HP_{99}	15.6	X	190.21583	209.52638	20.53018	13.65011	0.1721119	0.21237989	2.7822349	21	12 13.2	20.3
138441 2000 HB_{100}	15.7	X	209.98928	49.52304	174.44803	7.77581	0.1948145	0.21376653	2.7701901	21	12 24.2	20.1
138442 2000 HN_{103}	14.9	X	141.12925	201.76985	124.34473	10.32750	0.1449121	0.21673481	2.7448394	21	—	—
138443 2000 HR_{104}	15.6	X	164.58450	244.86948	89.47651	6.79883	0.0295299	0.22021227	2.7158662	21	1 1.6	19.3
138444 2000 JS_{1}	15.9	X	74.99652	155.96255	52.48487	11.43892	0.0659250	0.24140332	2.5545077	21	7 18.3	19.3
138445 Westenburger	16.4	X	250.95385	199.21511	74.86516	4.71645	0.1403934	0.27184640	2.3600452	21	1 13.1	20.0
138446 2000 JP_{4}	15.6	X	149.41802	279.20998	140.17617	12.31333	0.1183068	0.23068790	2.6330120	21	4 12.6	19.7
138447 2000 JQ_{6}	15.3	X	206.74845	170.84203	96.61168	13.79338	0.1580092	0.21736411	2.7395390	21	—	—
138448 2000 JV_{7}	16.1	X	80.64368	71.96591	40.04393	5.91951	0.1672877	0.23166593	2.6255962	21	3 30.6	19.1
138449 2000 JF_{8}	15.6	X	194.54909	195.69582	103.95067	3.28236	0.0537546	0.22158514	2.7046368	21	—	—
138450 2000 JQ_{8}	16.4	X	53.80491	295.92829	195.88171	21.82939	0.0420940	0.36659712	1.9334963	21	1 21.3	18.8
138451 2000 JR_{9}	15.4	X	315.67715	83.71890	195.99647	16.53540	0.2588396	0.18404538	3.0609256	21	3 27.7	19.3
138452 2000 JO_{10}	15.1	X	289.12571	92.01907	57.07498	22.23178	0.2972376	0.26349637	2.4096444	21	—	—
138453 2000 JO_{11}	14.9	X	168.49128	53.49133	248.24336	6.02529	0.0688060	0.21661233	2.7458740	21	—	—
138454 2000 JQ_{11}	15.8	X	79.93563	300.92896	242.86998	10.30488	0.2186746	0.23926549	2.5697014	21	7 11.0	19.3
138455 2000 JQ_{13}	15.5	X	178.37951	198.31142	70.88352	5.21549	0.0546360	0.21445821	2.7642306	21	—	—
138456 2000 JD_{21}	15.4	X	186.81630	270.44778	17.26067	9.42459	0.1407437	0.21760122	2.7375485	21	—	—
138457 2000 JN_{23}	15.4	X	297.72449	221.33311	338.07240	7.27018	0.2329251	0.22339284	2.6900265	21	—	—
138458 2000 JS_{24}	15.1	X	177.99768	86.25554	21.90190	15.70422	0.1368036	0.24320352	2.5418865	21	7 12.8	19.4
138459 2000 JQ_{31}	15.2	X	170.04303	232.54702	39.19356	5.55922	0.1362816	0.21260328	2.7802856	21	—	—
138460 2000 JP_{33}	15.6	X	335.21521	340.18362	237.75897	12.95956	0.1966213	0.22851888	2.6496468	21	2 1.2	19.2
138461 2000 JA_{35}	15.9	X	186.45249	61.19225	229.37295	10.55416	0.0578546	0.21779377	2.7359348	21	—	—
138462 2000 JO_{41}	16.2	X	290.36296	42.17986	183.25469	2.35708	0.0635202	0.22489338	2.6780475	21	1 9.4	19.9
138463 2000 JV_{41}	16.1	X	347.42841	6.64474	213.48402	12.97272	0.1210359	0.23130350	2.6283382	21	3 7.4	19.3
138464 2000 JJ_{42}	16.4	X	54.98919	265.60749	42.69856	9.80663	0.3268904	0.20039050	2.8921310	21	11 30.5	20.8
138465 2000 JV_{42}	16.2	X	62.94582	355.51681	216.17352	8.15659	0.1050901	0.23953677	2.5677610	21	7 7.8	19.5
138466 2000 JO_{43}	15.7	X	321.48069	276.13113	223.44610	4.12366	0.0704059	0.21739973	2.7392398	21	—	—
138467 2000 JL_{44}	15.5	X	237.42184	194.83797	60.98636	9.42066	0.0859369	0.21990421	2.7184020	21	—	—
138468 2000 JW_{44}	16.8	X	280.25139	111.87643	43.98191	0.90839	0.1495339	0.26161559	2.4211794	21	—	—
138469 2000 JJ_{56}	15.2	X	173.01164	167.84540	83.36791	9.25763	0.1743064	0.21041217	2.7995538	21	12 24.1	19.7
138470 2000 JF_{60}	15.9	X	50.10790	285.62276	284.86710	2.35747	0.1740867	0.23806295	2.5783478	21	6 27.8	18.5
138471 2000 JC_{75}	15.1	X	267.73004	292.47608	9.90296	27.01416	0.0224169	0.23278802	2.6171521	21	3 26.9	18.7
138472 2000 JB_{77}	15.8	X	201.88817	301.54025	51.94431	4.59120	0.1107072	0.22743634	2.6580479	21	3 12.6	19.9
138473 2000 JT_{78}	15.6	X	110.31008	182.05195	204.24488	13.83798	0.0698760	0.22359625	2.6883948	21	1 2.1	19.4
138474 2000 JP_{79}	16.1	X	336.30495	45.70680	91.51382	3.31049	0.1665841	0.26868962	2.3784943	21	—	—
138475 2000 JD_{84}	15.0	X	190.86822	245.44337	200.52672	12.56831	0.1588782	0.24093096	2.5578455	21	6 22.8	19.4
138476 2000 JJ_{85}	15.5	X	299.11373	328.23772	234.99570	10.99138	0.1293759	0.22457752	2.6805579	21	—	—
138477 2000 JY_{86}	14.6	X	230.83756	263.26962	72.66377	18.30217	0.2721460	0.17987338	3.1080748	21	3 24.9	20.4
138478 2000 JF_{87}	15.9	X	106.27583	281.78428	118.86751	2.76374	0.0330762	0.22511943	2.6762544	21	1 11.4	19.4
138479 2000 KU_{2}	14.7	X	325.97913	122.84484	146.07851	17.64425	0.3304004	0.18258567	3.0772179	21	3 22.1	18.6
138480 2000 KZ_{2}	16.9	X	7.57564	134.45417	73.86442	23.30515	0.0533034	0.37068212	1.9192651	21	3 28.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138481 2000 KD_3	15.3	X	204.92549	107.49185	231.50254	10.24863	0.3166716	0.22200657	2.7012130	21	2 21.5	20.6
138482 2000 KR_4	17.0	X	68.15543	268.85773	236.39423	20.14497	0.0740290	0.37064981	1.9193766	21	3 6.8	19.3
138483 2000 KT_7	16.1	X	325.09523	75.55820	146.54824	2.90085	0.1437702	0.22693149	2.6619887	21	2 5.9	19.3
138484 2000 KD_9	15.2	X	229.10704	126.42372	62.85148	8.75337	0.1548905	0.21256452	2.7806236	21	12 6.2	19.2
138485 2000 KY_9	15.6	X	154.68722	212.27492	235.43573	16.88186	0.1248832	0.23589383	2.5941296	21	5 20.2	19.4
138486 2000 KH_{11}	15.8	X	213.08836	19.58599	240.45519	4.11248	0.0796378	0.21705148	2.7421690	21	—	—
138487 2000 KF_{15}	15.8	X	24.23200	114.27873	62.59242	12.30531	0.1310931	0.23029118	2.6360350	21	3 23.5	18.8
138488 2000 KY_{16}	15.2	X	217.26388	357.38241	240.77693	11.23745	0.1321136	0.21480372	2.7612657	21	—	—
138489 2000 KL_{17}	16.3	X	312.01453	29.76053	154.75601	1.53327	0.1243783	0.26790657	2.3831267	21	—	—
138490 2000 KK_{20}	15.9	X	91.21752	333.22568	235.67068	3.03178	0.1722700	0.24184293	2.5514111	21	8 21.8	19.6
138491 2000 KE_{27}	14.9	X	102.95387	125.09733	250.12935	7.77729	0.1665354	0.21412423	2.7671042	21	—	—
138492 2000 KF_{34}	15.1	X	121.06556	272.00501	77.91464	8.83914	0.2199708	0.21398828	2.7682760	21	—	—
138493 2000 KQ_{35}	16.4	X	66.72683	99.33863	130.20206	4.11839	0.1755842	0.24042364	2.5614425	21	8 21.4	19.7
138494 2000 KD_{37}	15.6	X	83.98383	293.99908	36.42201	4.48434	0.1060552	0.20948088	2.8078450	21	—	—
138495 2000 KG_{37}	15.8	X	55.48219	333.17396	39.24013	5.68734	0.1702523	0.21104685	2.7939382	21	—	—
138496 2000 KE_{38}	16.3	X	152.96730	162.71105	121.60686	4.40931	0.0575893	0.21183255	2.7870253	21	—	—
138497 2000 KS_{42}	15.9	X	271.86499	250.77571	230.31150	8.04872	0.1955509	0.25763120	2.4460786	21	11 6.2	18.5
138498 2000 KV_{42}	15.7	X	101.01313	293.44681	44.55773	4.00514	0.0990348	0.21276860	2.7788452	21	—	—
138499 2000 KE_{43}	15.7	X	159.65438	95.66779	235.05218	3.51735	0.1032604	0.21846823	2.7303010	21	—	—
138500 2000 KF_{51}	15.8	X	166.28369	76.37086	235.29166	2.28482	0.1078113	0.21714477	2.7413836	21	—	—
138501 2000 KH_{52}	15.7	X	110.82250	82.41302	76.33888	6.29212	0.2208057	0.24138252	2.5546545	21	7 15.7	19.6
138502 2000 KQ_{52}	15.5	X	150.29973	76.99427	194.89735	7.22565	0.1949041	0.21028461	2.8006858	21	12 28.4	20.4
138503 2000 KC_{58}	15.8	X	338.89531	69.49885	112.27136	7.90174	0.1513748	0.27252450	2.3561287	21	—	—
138504 2000 KW_{62}	15.8	X	288.73375	77.12954	118.70516	8.83206	0.1923416	0.26688509	2.3892037	21	—	—
138505 2000 KY_{63}	15.2	X	305.42866	343.88929	182.08104	14.03060	0.1373235	0.21954878	2.7213351	21	—	—
138506 2000 KP_{64}	16.1	X	304.19916	87.75867	113.41141	4.45288	0.2335943	0.22400468	2.6851259	21	—	—
138507 2000 KA_{68}	15.6	X	249.24124	66.38425	137.84221	3.26505	0.0545404	0.21546691	2.7555968	21	—	—
138508 2000 KO_{69}	16.3	X	346.24323	342.57608	161.25979	23.30898	0.0554705	0.35958620	1.9585472	21	—	—
138509 2000 KO_{72}	15.0	X	279.16105	163.98283	149.09485	17.91287	0.0918489	0.18444945	3.0564536	21	4 23.1	19.6
138510 2000 KT_{73}	16.0	X	357.55146	120.25337	172.35244	8.76729	0.2183796	0.23836274	2.5761855	21	7 13.5	18.2
138511 2000 KZ_{82}	15.1	X	32.11866	46.80981	180.65890	6.29215	0.0989217	0.19011854	2.9953879	21	6 12.7	18.9
138512 2000 LE_3	13.8	X	285.20885	18.73328	269.05862	34.73395	0.3315309	0.17509502	3.1643671	21	2 7.3	19.6
138513 2000 LT_6	15.6	X	147.69149	192.32553	208.93735	8.09407	0.1442898	0.22633458	2.6666669	21	3 15.3	19.8
138514 2000 LA_{10}	16.3	X	2.91995	137.61848	81.43532	24.65695	0.0552749	0.36988348	1.9220267	21	4 7.8	18.8
138515 2000 LN_{24}	15.4	X	308.52937	122.44732	124.49664	16.44116	0.3474123	0.17912736	3.1166983	21	1 28.2	20.0
138516 2000 LM_{32}	15.7	X	310.86872	70.26500	178.55813	8.28436	0.1310791	0.22857112	2.6492431	21	2 21.8	19.3
138517 2000 LO_{32}	15.8	X	313.67014	72.79634	187.32025	7.72005	0.2341409	0.18165306	3.0877413	21	3 4.2	20.1
138518 2000 NB_7	15.6	X	318.50176	235.48531	155.31600	6.68605	0.0700260	0.19290370	2.9664863	21	9 25.8	19.3
138519 2000 NE_{12}	15.2	X	288.64692	71.56326	240.61092	14.44320	0.3645875	0.17974519	3.1095523	21	3 19.1	20.4
138520 2000 NK_{14}	14.1	X	0.44337	309.57107	308.94602	14.80738	0.1594600	0.18233313	3.0800586	21	5 30.4	17.8
138521 2000 NL_{18}	14.9	X	257.85924	277.66454	115.86442	10.56291	0.1231948	0.18349992	3.0669884	21	6 29.1	19.4
138522 2000 NW_{19}	13.7	X	258.75026	90.71847	302.18867	14.99557	0.2521622	0.18152454	3.0891985	21	6 14.6	18.8
138523 2000 NL_{20}	14.4	X	244.30203	20.92756	289.07924	16.22461	0.1789095	0.17388895	3.1789819	21	2 22.4	19.9
138524 2000 OJ_8	16.8	X	241.17952	181.23457	226.59897	6.24545	0.5678436	0.27246283	2.3564843	21	5 27.1	21.6
138525 2000 OP_8	16.8	X	24.07348	76.82270	128.05408	23.28711	0.0601295	0.36749480	1.9303464	21	4 16.7	19.2
138526 2000 OR_8	16.0	X	23.35605	44.53791	131.21149	23.57251	0.0525128	0.36280512	1.9469454	21	2 15.0	17.6
138527 2000 OJ_{20}	14.7	X	246.62210	60.62504	288.85302	17.31878	0.1789211	0.17852569	3.1236971	21	4 9.9	20.1
138528 2000 OX_{21}	14.7	X	7.40514	340.70517	320.05600	12.80256	0.1355404	0.18860875	3.0113518	21	8 13.1	18.2
138529 2000 OB_{31}	14.4	X	282.95892	95.56355	275.20615	9.75751	0.2179474	0.18362495	3.0655960	21	6 16.7	18.6
138530 2000 OJ_{34}	14.3	X	302.52923	80.86960	283.32173	8.38122	0.2015677	0.18543712	3.0455911	21	7 7.4	18.0
138531 2000 OC_{38}	14.1	X	248.06951	128.21005	267.97859	15.26253	0.2182868	0.18139783	3.0906370	21	6 11.5	19.1
138532 2000 OA_{40}	15.0	X	310.59269	72.72298	241.22861	10.52875	0.1687868	0.18315329	3.0708568	21	5 18.7	18.8
138533 2000 OF_{40}	14.3	X	203.59193	118.89069	274.58574	10.74898	0.0786370	0.17642775	3.1484112	21	5 2.4	19.3
138534 2000 OT_{41}	14.9	X	302.54608	133.99661	197.18576	9.35454	0.0971425	0.18281158	3.0746823	21	6 10.1	19.1
138535 2000 OO_{57}	14.8	X	342.61438	321.10561	328.73839	5.00570	0.1549174	0.18451820	3.0556944	21	6 10.6	18.3
138536 2000 OZ_{59}	15.0	X	315.94886	101.76836	237.36163	3.15043	0.1609730	0.18503584	3.0499928	21	7 1.1	18.7
138537 2000 OK_{67}	6.0	X	359.09245	358.19185	4.37945	4.87143	0.1466909	0.00306608	46.9260638	21	9 24.9	22.0
138538 2000 PL_3	16.6	X	285.54804	261.07975	312.53029	16.54013	0.0712160	0.35532932	1.9741585	21	—	—
138539 2000 PB_6	14.5	X	257.91774	122.93488	186.35483	25.86501	0.2758803	0.17536089	3.1611679	21	3 2.6	20.1
138540 2000 PZ_{14}	14.4	X	252.94748	256.05408	120.07839	14.54060	0.1999619	0.18141883	3.0903984	21	5 27.9	19.4
138541 2000 PV_{20}	15.4	X	270.95701	179.75398	106.42815	10.51564	0.1327517	0.21969076	2.7201625	21	2 28.3	19.5
138542 2000 PK_{25}	15.4	X	348.54089	188.29383	81.86994	1.28644	0.2245391	0.18226150	3.0808657	21	5 19.7	18.4
138543 2000 QR_6	14.7	X	215.50057	219.28989	157.70301	3.46959	0.2376230	0.17319986	3.1874082	21	4 22.7	20.2
138544 2000 QY_9	14.6	X	6.01916	29.91392	306.64179	10.85986	0.1619402	0.19252135	2.9704126	21	9 25.5	18.1
138545 2000 QD_{11}	14.8	X	306.27871	178.50579	144.68595	11.11780	0.1396430	0.18300711	3.0724919	21	5 31.6	19.0
138546 2000 QM_{12}	15.3	X	294.80268	220.45002	126.54421	2.29952	0.2075778	0.18315644	3.0708215	21	6 2.9	19.5
138547 2000 QA_{15}	15.2	X	334.35232	214.20692	71.16188	1.08786	0.2059945	0.18263176	3.0767002	21	5 14.4	18.7
138548 2000 QN_{16}	15.0	X	236.91645	77.72138	339.73986	9.03645	0.1072248	0.18264733	3.0765254	21	7 8.9	19.7
138549 2000 QY_{21}	15.0	X	271.49321	137.91177	170.68934	16.37080	0.2075444	0.17486174	3.1671808	21	3 22.7	19.9
138550 2000 QD_{31}	14.4	X	210.37981	226.27677	133.23685	14.18885	0.2593607	0.17235878	3.1977692	21	4 2.1	20.2
138551 2000 QF_{32}	14.9	X	200.46166	275.87508	88.01792	6.13023	0.1623036	0.17142283	3.2093982	21	3 30.1	20.2
138552 2000 QF_{33}	14.9	X	322.14290	265.21897	49.34564	9.90691	0.2392330	0.18298596	3.0727286	21	5 26.2	18.3
138553 2000 QZ_{40}	14.6	X	256.05698	259.76978	163.59689	9.31732	0.1319485	0.18501046	3.0502717	21	8 1.3	19.2
138554 2000 QN_{44}	15.7	X	22.28036	238.64457	122.15780	2.79520	0.1110981	0.19498913	2.9452971	21	11 24.4	19.3
138555 2000 QS_{44}	15.7	X	313.44983	253.40606	129.65409	4.36112	0.1883192	0.18704552	3.0281067	21	8 23.7	19.2
138556 2000 QC_{47}	15.1	X	293.18423	219.93101	132.59393	3.23410	0.1805543	0.18242128	3.0790664	21	6 12.1	19.3
138557 2000 QS_{47}	14.8	X	205.96872	242.59734	158.54203	1.80012	0.2384194	0.17475728	3.1684428	21	5 13.0	20.3
138558 2000 QP_{51}	15.4	X	347.52807	150.44577	154.74589	6.09351	0.2674737	0.18664483	3.0324390	21	7 4.7	18.2
138559 2000 QZ_{56}	15.6	X	248.77120	301.63072	96.36600	2.64699	0.1701131	0.18070962	3.0984788	21	6 19.1	20.3
138560 2000 QM_{59}	15.1	X	297.56984	318.31271	0.87122	15.53476	0.2057967	0.18072161	3.0983418	21	4 26.2	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138561 2000 QY_{66}	16.6	X	321.10124	247.46016	117.61198	3.48544	0.2327280	0.28020470	2.3128765	21	8 14.5	17.9
138562 2000 QC_{68}	14.9	X	279.90005	343.57143	24.38819	9.36975	0.2188902	0.18047616	3.1011504	21	6 7.9	19.5
138563 2000 QE_{69}	14.4	X	232.09941	66.58824	303.13963	20.83690	0.1488645	0.17827428	3.1266331	21	4 21.9	19.8
138564 2000 QH_{74}	15.1	X	209.60811	95.05651	326.35005	8.22006	0.3060101	0.17556283	3.1587432	21	6 5.1	20.9
138565 2000 QG_{76}	14.4	X	200.12742	61.24175	333.59059	14.40100	0.1550817	0.17357908	3.1827642	21	4 25.5	19.9
138566 2000 QS_{78}	14.9	X	248.84204	23.99610	330.64632	6.52501	0.1606413	0.17584412	3.1553738	21	4 25.4	20.0
138567 2000 QU_{79}	15.3	X	314.30821	346.69455	344.26309	1.78509	0.1854455	0.18211827	3.0824808	21	6 13.7	19.2
138568 2000 QK_{81}	15.0	X	334.00677	132.11660	167.57348	9.82272	0.0522253	0.18095912	3.0956301	21	6 19.5	19.3
138569 2000 QQ_{81}	14.9	X	246.22510	10.45377	338.13247	8.67338	0.0813476	0.17536765	3.1610866	21	4 22.0	19.8
138570 2000 QS_{84}	16.5	X	43.01291	130.95891	233.33613	2.90907	0.1273388	0.29265677	2.2467961	21	—	—
138571 2000 QY_{87}	14.6	X	310.26845	352.78848	323.01609	14.91356	0.0522036	0.18022054	3.1040820	21	6 5.5	19.1
138572 2000 QV_{92}	14.5	X	209.50646	152.83623	273.16828	3.19556	0.1415725	0.17705902	3.1409234	21	6 17.5	19.4
138573 2000 QB_{107}	14.9	X	222.32073	49.51236	287.92779	4.52987	0.1362542	0.17147700	3.2087223	21	3 13.9	20.1
138574 2000 QS_{109}	15.1	X	358.87675	127.11982	151.51957	10.44401	0.0600062	0.18275108	3.0753609	21	6 27.7	19.2
138575 2000 QG_{114}	14.9	X	188.31121	28.80362	16.46895	4.38619	0.1767494	0.17249715	3.1960588	21	5 3.3	20.3
138576 2000 QU_{114}	15.0	X	267.92438	226.83109	161.93407	11.10456	0.1396566	0.18069126	3.0986888	21	7 2.2	19.7
138577 2000 QX_{122}	14.0	X	228.69868	210.21336	190.60951	28.19299	0.1924805	0.17538893	3.1608309	21	6 2.0	19.6
138578 2000 QL_{124}	14.4	X	202.64333	193.62862	198.27154	10.55730	0.1098570	0.17213357	3.2005577	21	5 2.9	19.4
138579 2000 QA_{132}	14.6	X	279.54584	23.04734	321.69517	16.65735	0.1960046	0.18179766	3.0861038	21	5 7.4	19.5
138580 2000 QC_{132}	14.1	X	270.33994	77.35153	326.10235	16.87716	0.2631492	0.18443028	3.0566654	21	7 10.9	18.9
138581 2000 QQ_{133}	15.3	X	258.16900	343.11930	7.87485	2.81495	0.2570229	0.17860915	3.1227238	21	4 22.9	20.5
138582 2000 QP_{134}	14.9	X	302.77984	249.89522	116.28561	5.78847	0.1772187	0.18510665	3.0492150	21	7 14.4	18.8
138583 2000 QF_{136}	14.9	X	276.69345	201.35063	158.26871	11.57014	0.1424676	0.18172440	3.0869331	21	6 7.2	19.5
138584 2000 QC_{139}	14.7	X	277.49549	326.99884	0.18864	4.69205	0.1848388	0.17634811	3.1493590	21	4 20.3	19.4
138585 2000 QG_{140}	14.8	X	238.95250	170.92332	190.42411	11.65085	0.1817631	0.17679507	3.1440489	21	4 26.6	19.9
138586 2000 QL_{142}	14.8	X	316.48887	147.36117	180.35983	26.67605	0.1051617	0.17968420	3.1102559	21	6 24.2	19.5
138587 2000 QF_{143}	15.6	X	285.20344	328.94952	23.01906	0.68138	0.2109446	0.17947360	3.1126885	21	5 27.4	19.9
138588 2000 QY_{146}	16.0	X	164.74702	205.17607	10.23522	7.12736	0.0379444	0.28776632	2.2721801	21	11 18.8	19.0
138589 2000 QC_{154}	14.6	X	308.65595	126.03162	235.58404	9.43874	0.1165498	0.18586486	3.0409167	21	7 23.5	18.7
138590 2000 QN_{154}	14.8	X	301.45987	228.82257	192.91052	16.86289	0.2440905	0.18884500	3.0088397	21	9 13.1	18.3
138591 2000 QB_{156}	15.0	X	301.95318	54.77234	276.68718	8.24086	0.1175656	0.18179167	3.0861715	21	6 5.9	19.0
138592 2000 QD_{160}	14.5	X	234.24622	150.58396	240.13361	8.50392	0.0991847	0.17846998	3.1243470	21	6 1.9	19.2
138593 2000 QH_{160}	14.8	X	248.65776	227.97064	180.04332	18.75638	0.2610996	0.18005301	3.1060072	21	6 22.2	20.2
138594 2000 QM_{160}	14.7	X	263.65382	75.93448	201.66615	11.83889	0.0862659	0.16948733	3.2337856	21	2 15.5	19.6
138595 2000 QD_{161}	15.0	X	282.99706	150.57672	210.94705	7.84837	0.2623734	0.18228033	3.0806534	21	5 30.4	19.5
138596 2000 QL_{161}	15.3	X	252.14884	127.23761	188.41363	9.65028	0.2095865	0.17485306	3.1672856	21	3 11.2	20.5
138597 2000 QZ_{161}	14.5	X	197.22909	106.03700	301.64289	14.65092	0.2822532	0.17449098	3.1716656	21	5 9.3	20.4
138598 2000 QV_{164}	15.2	X	237.19068	134.02310	226.60224	8.37154	0.0919704	0.17558082	3.1585275	21	4 29.3	19.9
138599 2000 QO_{166}	15.5	X	229.42799	97.49353	206.99656	5.56623	0.1401240	0.26279381	2.4139372	21	1 29.3	19.3
138600 2000 QJ_{174}	15.0	X	295.28180	181.38825	177.83183	9.34506	0.0857491	0.18360216	3.0658497	21	7 7.0	19.3
138601 2000 QK_{175}	15.0	X	285.09161	168.52307	174.20867	8.71480	0.1214051	0.18054257	3.1003898	21	5 30.0	19.4
138602 2000 QY_{176}	15.0	X	222.69213	237.40474	185.07464	8.23113	0.1629733	0.17933451	3.1142978	21	6 24.1	20.2
138603 2000 QG_{177}	14.6	X	262.01123	86.53011	317.87177	7.20772	0.2003569	0.18175032	3.0866397	21	7 8.4	19.2
138604 2000 QO_{177}	15.0	X	296.45645	24.56244	264.00946	2.38347	0.2437803	0.17670948	3.1450640	21	3 17.7	19.5
138605 2000 QW_{177}	15.0	X	19.40567	110.32342	168.87074	22.16005	0.1883325	0.18589294	3.0406105	21	8 7.5	18.6
138606 2000 QR_{179}	14.8	X	234.93337	318.58483	24.67298	4.98083	0.1275553	0.17232133	3.1982324	21	4 4.5	19.9
138607 2000 QF_{184}	14.8	X	234.84972	27.41965	341.24767	17.17268	0.1576377	0.17724305	3.1387488	21	4 23.9	20.2
138608 2000 QX_{184}	14.6	X	299.74085	322.61214	342.06598	13.73388	0.1163784	0.17920555	3.1157917	21	4 23.5	19.2
138609 2000 QH_{188}	15.2	X	300.82858	277.05171	75.30424	6.40235	0.1661599	0.18325654	3.0697032	21	6 24.6	19.3
138610 2000 QY_{188}	15.0	X	251.54395	278.72923	90.04372	5.90745	0.1472922	0.17838661	3.1253204	21	5 20.3	19.8
138611 2000 QJ_{189}	14.6	X	283.76078	223.11278	94.18362	10.07667	0.1701822	0.17814135	3.1281884	21	4 22.8	19.3
138612 2000 QM_{194}	14.9	X	281.64022	110.80359	247.71571	9.87549	0.1203540	0.18262667	3.0767574	21	6 13.4	19.3
138613 2000 QV_{196}	14.6	X	226.35090	11.49687	328.08504	13.24878	0.0966604	0.17267957	3.1938076	21	3 19.4	19.6
138614 2000 QO_{197}	14.5	X	177.41167	291.97397	158.32807	18.95684	0.2866854	0.17550839	3.1593964	21	6 19.9	20.5
138615 2000 QY_{197}	14.7	X	301.77526	334.32884	347.93545	11.93227	0.1291688	0.18063067	3.0993816	21	5 19.3	19.1
138616 2000 QZ_{204}	15.4	X	270.84973	193.88674	187.40353	5.03548	0.1534332	0.18049274	3.1009604	21	6 24.4	20.0
138617 2000 QP_{205}	14.8	X	261.70300	2.63743	352.99838	10.33459	0.2258478	0.17726131	3.1385333	21	5 1.6	19.9
138618 2000 QZ_{209}	15.8	X	19.68783	98.79244	213.32731	2.28123	0.2707588	0.19018296	2.9947114	21	10 7.9	18.9
138619 2000 QL_{211}	14.8	X	210.91502	320.29105	98.20432	2.55008	0.2267001	0.17601258	3.1533601	21	6 6.3	20.1
138620 2000 QD_{220}	15.1	X	5.99005	348.09046	318.23694	7.08903	0.0340974	0.18689952	3.0296835	21	8 13.3	19.2
138621 2000 QQ_{221}	15.1	X	337.76457	243.66285	49.35642	5.74081	0.2183899	0.18392117	3.0623035	21	5 29.5	18.3
138622 2000 QU_{221}	15.1	X	352.68453	277.48016	17.01149	9.08802	0.1290226	0.18504191	3.0499261	21	7 9.5	18.8
138623 2000 QQ_{225}	15.1	X	32.84787	295.51403	344.22984	8.56256	0.0853632	0.18722025	3.0262223	21	8 23.1	19.0
138624 2000 QX_{226}	15.2	X	320.24494	62.68186	256.29437	8.94960	0.1440872	0.18322214	3.0700875	21	6 13.3	19.0
138625 2000 QL_{244}	15.6	X	272.82123	314.50550	356.02674	2.79641	0.1786810	0.17704573	3.1410805	21	3 27.9	20.2
138626 2000 QM_{248}	15.5	X	285.77256	314.59796	99.24962	0.85076	0.1105794	0.18773616	3.0206757	21	9 1.4	19.5
138627 2000 QK_{250}	15.3	X	235.95901	223.14118	146.63409	1.38917	0.2238024	0.17737488	3.1371935	21	4 30.2	20.5
138628 2000 QM_{251}	7.2	X	50.69303	314.54360	355.50703	15.67057	0.2710631	0.00326231	45.0248599	21	10 19.3	23.2
138629 2000 RR	14.6	X	257.37755	148.78104	179.42046	27.47603	0.1778978	0.17570848	3.1569974	21	4 4.6	19.6
138630 2000 RU	13.9	X	175.51504	133.48702	265.91049	19.53591	0.1890136	0.17218314	3.1999435	21	4 10.4	19.6
138631 2000 RE_{8}	15.1	X	161.30862	228.65466	331.83853	30.55069	0.2136856	0.24069947	2.5594852	21	9 30.6	20.1
138632 2000 RS_{14}	14.9	X	175.92571	203.58437	197.76889	14.65329	0.1040351	0.17163819	3.2067131	21	4 17.7	19.8
138633 2000 RD_{15}	14.6	X	289.71075	115.71635	184.23440	21.92494	0.1078787	0.17554479	3.1589598	21	4 14.5	19.1
138634 2000 RW_{15}	14.7	X	225.42216	183.73513	205.58071	11.19104	0.2546405	0.17522854	3.1627594	21	5 13.7	20.2
138635 2000 RP_{17}	15.0	X	326.17716	139.06670	196.83990	14.29143	0.1335069	0.18368124	3.0649697	21	7 14.9	19.1
138636 2000 RJ_{18}	14.7	X	7.76209	157.73512	314.80111	9.50128	0.1413666	0.20420593	2.8559931	21	—	—
138637 2000 RN_{20}	14.1	X	249.72393	38.86507	317.46023	12.12385	0.1054345	0.17555829	3.1587977	21	5 1.5	19.1
138638 2000 RF_{24}	14.7	X	224.16297	172.45586	222.63360	10.24572	0.1181032	0.17699720	3.1416547	21	5 26.7	19.5
138639 2000 RH_{24}	15.0	X	213.05547	117.60591	316.41704	15.62091	0.2252692	0.17765568	3.1338869	21	6 28.3	20.5
138640 2000 RO_{26}	14.6	X	255.00075	357.93498	320.56863	14.00028	0.1836762	0.17307180	3.1889804	21	3 14.9	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138641 2000 RH_{27}	15.3	X	126.47008	103.21165	311.44346	10.75165	0.0904023	0.21248634	2.7813056	21	3 2.4	19.3
138642 2000 RV_{27}	15.4	X	119.23186	98.43075	267.00124	4.91018	0.0853150	0.20649640	2.8348346	21	—	—
138643 2000 RH_{29}	14.9	X	194.84700	189.88887	241.55794	8.13655	0.2249823	0.17400757	3.1775370	21	6 9.1	20.3
138644 2000 RQ_{30}	14.6	X	269.95112	29.91226	316.76349	10.37488	0.1458637	0.17662006	3.1461255	21	5 8.4	19.4
138645 2000 RQ_{31}	14.7	X	297.23520	125.44733	229.96115	5.98326	0.2017583	0.18082013	3.0972162	21	6 17.9	18.8
138646 2000 RK_{34}	14.7	X	271.74370	3.94127	303.61158	8.20440	0.1378784	0.17260460	3.1947323	21	3 24.5	19.7
138647 2000 RK_{39}	14.7	X	205.31167	111.61817	300.28710	15.04307	0.0367111	0.17794420	3.1304985	21	5 30.1	19.5
138648 2000 RL_{39}	14.9	X	325.08762	109.38463	241.93070	9.31787	0.1312319	0.18565006	3.0432618	21	8 2.8	18.8
138649 2000 RZ_{39}	14.7	X	37.84453	25.22473	218.51090	10.53809	0.0096326	0.18088980	3.0964210	21	7 2.7	19.2
138650 2000 RY_{53}	14.6	X	215.36631	62.04165	297.25454	14.18252	0.1102671	0.17272821	3.1932079	21	3 28.4	19.9
138651 2000 RQ_{59}	15.0	X	188.22286	105.86644	320.60494	4.76767	0.1533850	0.17256277	3.1952485	21	5 28.5	20.2
138652 2000 RR_{63}	14.5	X	206.38685	133.13262	218.11420	6.70278	0.1664678	0.16984445	3.2292510	21	3 15.6	20.0
138653 2000 RT_{76}	14.6	X	289.90365	311.22623	345.24791	15.72326	0.1740416	0.17708355	3.1406334	21	3 26.1	19.3
138654 2000 RP_{77}	14.9	X	189.29380	278.36175	179.45325	13.77936	0.2115673	0.17705315	3.1409928	21	7 5.2	20.5
138655 2000 RG_{81}	14.1	X	183.14953	63.54985	307.22971	21.33299	0.0937270	0.16892012	3.2410206	21	3 8.3	19.4
138656 2000 RQ_{81}	14.7	X	180.30171	248.35942	198.34540	9.81148	0.2517203	0.17419787	3.1752225	21	6 16.1	20.4
138657 2000 RU_{81}	14.6	X	280.54880	9.59998	295.69909	13.37411	0.1512221	0.17515694	3.1636213	21	3 26.3	19.6
138658 2000 RA_{84}	15.0	X	42.09001	87.00215	162.83904	9.38340	0.0904750	0.18561545	3.0436402	21	7 25.9	19.0
138659 2000 RQ_{88}	15.1	X	280.73214	80.28407	318.49651	10.13527	0.1474713	0.18327050	3.0695473	21	7 31.5	19.3
138660 2000 RR_{88}	15.7	X	162.54702	125.21003	290.46699	4.97140	0.0218766	0.21909910	2.7250574	21	4 8.3	19.5
138661 2000 RH_{89}	15.2	X	201.72705	215.02026	202.36361	16.37564	0.1805842	0.17487670	3.1670002	21	5 30.5	20.6
138662 2000 RV_{89}	14.9	X	335.38120	332.21013	320.75803	9.69254	0.0830396	0.17988607	3.1079285	21	6 9.0	19.0
138663 2000 RE_{91}	14.6	X	218.31674	197.60384	255.70953	9.20380	0.0575959	0.18172426	3.0869347	21	8 2.3	19.3
138664 2000 RK_{93}	14.8	X	247.70477	19.62869	0.45777	11.34579	0.0867584	0.17726000	3.1385488	21	6 2.5	19.7
138665 2000 RE_{96}	14.9	X	241.03264	125.30818	213.47075	21.06157	0.2327820	0.17375293	3.1806409	21	3 25.5	20.5
138666 2000 RX_{96}	15.4	X	137.98703	193.56838	279.43589	17.42829	0.0789022	0.36472547	1.9401054	21	5 22.8	17.8
138667 2000 RZ_{99}	14.8	X	264.94741	144.87821	226.34798	19.17636	0.1177104	0.17905963	3.1174842	21	6 9.0	19.5
138668 2000 RB_{103}	14.8	X	247.72868	141.30997	250.08112	9.16718	0.2277161	0.17731609	3.1378869	21	6 4.4	20.0
138669 2000 RJ_{104}	14.5	X	26.31537	76.98733	329.79545	16.14967	0.0892756	0.19638789	2.9312954	21	—	—
138670 2000 RH_{106}	15.7	X	322.34401	330.23496	304.13690	6.36446	0.1346006	0.22457834	2.6805514	21	4 10.9	19.1
138671 2000 SY_{3}	14.3	X	236.83083	246.09583	130.12547	17.86508	0.2728828	0.17501102	3.1653795	21	5 11.2	20.0
138672 2000 SL_{4}	14.8	X	252.39895	156.66069	233.27108	10.63355	0.1338863	0.18152835	3.0891553	21	6 16.6	19.4
138673 2000 SH_{6}	14.7	X	216.96707	305.69149	137.18272	23.62220	0.2552563	0.17700131	3.1416061	21	7 9.4	20.3
138674 2000 SJ_{6}	14.2	X	218.99722	303.01531	65.49649	18.92815	0.2083815	0.17224957	3.1991206	21	4 22.5	19.8
138675 2000 SU_{8}	17.2	X	105.01934	184.09151	260.02153	1.99105	0.0318879	0.30762625	2.1733039	21	2 18.5	19.5
138676 2000 SZ_{15}	14.7	X	219.74977	95.36237	331.83621	7.14437	0.2274066	0.17690502	3.1427459	21	6 23.9	20.1
138677 2000 SU_{16}	14.9	X	239.64167	224.70755	220.05837	8.29832	0.2346202	0.18009192	3.1055598	21	7 28.8	20.0
138678 2000 SS_{23}	16.1	X	316.30935	125.89939	256.64250	1.85538	0.2316464	0.23157035	2.6263186	21	8 25.1	18.3
138679 2000 SD_{30}	15.5	X	74.73303	281.61993	69.73331	2.80356	0.0878735	0.19868735	2.9086351	21	—	—
138680 2000 SN_{31}	15.6	X	335.27550	7.69344	339.06858	0.76839	0.1391750	0.18523145	3.0478451	21	8 17.8	19.0
138681 2000 SX_{32}	14.8	X	139.65976	73.23704	23.59295	8.49028	0.1115937	0.17137940	3.2099405	21	5 16.3	19.7
138682 2000 SJ_{34}	14.8	X	225.97789	354.91785	35.72805	9.69818	0.0962531	0.17516147	3.1635667	21	5 22.7	19.7
138683 2000 SS_{35}	15.5	X	312.92142	207.46380	137.46357	2.18577	0.1967877	0.18253880	3.0777446	21	6 28.8	19.1
138684 2000 SS_{40}	15.0	X	26.83265	34.31372	224.10581	10.84159	0.1071677	0.18102486	3.0948807	21	7 14.0	19.1
138685 2000 SM_{45}	14.4	X	258.65981	84.88472	291.67422	20.44389	0.1071673	0.18106102	3.0944685	21	6 11.5	19.1
138686 2000 SK_{50}	14.9	X	293.89144	148.89905	195.50217	10.08907	0.0874742	0.17976475	3.1093268	21	6 16.5	19.3
138687 2000 SJ_{51}	15.3	X	343.95898	50.64378	274.37499	7.53574	0.0753270	0.18438090	3.0572111	21	8 3.5	19.3
138688 2000 SE_{53}	15.5	X	328.33627	144.82576	208.18343	4.19684	0.1428655	0.18495555	3.0508754	21	8 11.8	19.2
138689 2000 SW_{55}	14.7	X	186.90909	280.19067	193.81723	10.12453	0.1217433	0.17918219	3.1160625	21	7 23.1	19.8
138690 2000 SY_{56}	15.9	X	285.44462	154.63988	203.67511	0.47591	0.1897456	0.17997274	3.1069307	21	6 7.9	20.1
138691 2000 SP_{57}	14.7	X	342.72083	282.07474	1.63509	22.00031	0.0623050	0.17822768	3.1271781	21	6 5.3	19.3
138692 2000 SV_{58}	14.8	X	201.44356	27.08811	357.72231	9.35923	0.0854093	0.17147585	3.2087366	21	4 19.7	19.8
138693 2000 ST_{59}	15.6	X	329.91786	117.37223	200.88658	4.68824	0.1718700	0.18194542	3.0844327	21	6 25.3	19.1
138694 2000 SV_{59}	15.0	X	333.99297	107.28732	188.44189	22.21883	0.0845481	0.17850797	3.1239038	21	6 11.4	19.5
138695 2000 SD_{60}	15.6	X	323.48076	186.15316	237.57816	1.05610	0.2595982	0.18886655	3.0086109	21	11 2.0	18.0
138696 2000 SB_{69}	14.7	X	208.54818	189.51254	189.95300	10.39395	0.1455977	0.17106664	3.2138517	21	4 22.9	19.9
138697 2000 ST_{69}	16.5	X	348.33009	303.20619	71.58810	4.05686	0.2347889	0.28351296	2.2948489	21	11 22.3	17.7
138698 2000 SQ_{76}	16.3	X	101.94770	235.13730	160.98781	7.93160	0.3143233	0.20465378	2.8518250	21	2 13.6	20.3
138699 2000 SL_{77}	15.2	X	112.11106	129.75456	303.82553	1.96092	0.2494544	0.16333398	3.3145024	21	4 6.4	20.2
138700 2000 SD_{79}	15.0	X	6.60995	269.09281	26.43385	10.51234	0.1456016	0.18310362	3.0714121	21	8 9.3	18.7
138701 2000 SJ_{80}	15.3	X	39.23310	332.34546	328.42477	1.01914	0.0924147	0.18733374	3.0250000	21	9 28.2	19.2
138702 2000 SW_{85}	16.0	X	212.06483	310.03388	135.91555	4.97120	0.0942524	0.27262773	2.3555339	21	7 18.4	19.2
138703 2000 SK_{89}	14.4	X	166.27843	54.08657	33.69188	14.60029	0.1517809	0.17175261	3.2052887	21	6 1.6	19.7
138704 2000 SO_{90}	14.4	X	289.74116	119.91611	262.69502	13.14327	0.2084094	0.18318515	3.0705007	21	7 10.4	18.6
138705 2000 SU_{90}	13.7	X	211.45315	119.90782	257.07982	20.94642	0.1238933	0.17213141	3.2005845	21	4 17.2	19.1
138706 2000 SR_{92}	15.1	X	265.09720	115.29573	244.26591	9.35420	0.1109971	0.17816206	3.1279458	21	5 27.1	19.5
138707 2000 SP_{95}	14.8	X	221.17320	119.95006	210.89598	11.65102	0.0870404	0.16823062	3.2498703	21	3 6.5	20.0
138708 2000 SW_{95}	15.3	X	235.89354	95.97581	323.30478	5.19870	0.0990244	0.17932414	3.1144179	21	7 10.1	19.9
138709 2000 SJ_{101}	15.1	X	235.15507	176.99292	259.72232	10.37477	0.0997948	0.18105306	3.0945593	21	7 27.5	19.8
138710 2000 SE_{103}	15.0	X	315.76936	140.49352	191.75613	5.11249	0.1850431	0.18099586	3.0952112	21	6 18.2	18.8
138711 2000 SN_{104}	16.1	X	240.97797	150.76978	188.66835	1.71040	0.0929185	0.21811127	2.7332791	21	4 3.8	20.2
138712 2000 SJ_{105}	15.8	X	337.43470	146.71888	182.84085	5.67343	0.1824590	0.18414057	3.0598706	21	7 23.7	19.3
138713 2000 SK_{117}	16.4	X	217.94378	284.90255	130.43777	2.77350	0.1862378	0.26954268	2.3734733	21	6 8.1	20.1
138714 2000 SC_{126}	15.1	X	330.19311	284.14992	22.70528	5.31441	0.1313803	0.17915150	3.1164183	21	6 14.7	19.0
138715 2000 SK_{129}	14.0	X	208.21070	235.14801	211.03662	21.12964	0.2366681	0.17939572	3.1135893	21	7 3.2	19.7
138716 2000 SU_{130}	14.3	X	295.54962	10.05346	261.14286	14.30308	0.1990585	0.17286804	3.1914858	21	2 24.4	19.3
138717 2000 SB_{135}	14.8	X	228.91706	110.01596	232.79330	11.80069	0.0418654	0.16961249	3.2321946	21	3 31.2	19.7
138718 2000 SW_{139}	15.0	X	230.78264	93.61417	269.88806	4.10966	0.1690582	0.17217106	3.2000931	21	4 19.9	20.2
138719 2000 SB_{144}	14.9	X	213.54331	263.82128	188.87204	9.50018	0.0328468	0.18012561	3.1051725	21	7 29.9	19.5
138720 2000 SV_{156}	14.6	X	231.52788	181.95470	219.64765	22.44545	0.1448677	0.17915644	3.1163610	21	6 7.6	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138721 2000 SY_{156}	14.2	X	282.20036	97.31480	299.67313	16.88194	0.2871016	0.18095229	3.0957080	21	7 10.6	18.6
138722 2000 SA_{157}	15.4	X	302.95232	97.85895	222.91598	7.58269	0.0787711	0.17857551	3.1231160	21	5 30.9	19.6
138723 2000 SY_{158}	15.6	X	244.84121	307.07454	107.48007	2.38344	0.1969452	0.18039665	3.1020615	21	7 2.9	20.5
138724 2000 SZ_{164}	16.4	X	227.98943	249.82911	218.44077	7.26028	0.0538489	0.28077845	2.3097246	21	9 10.3	19.5
138725 2000 SF_{175}	14.7	X	222.74292	123.25224	259.21406	10.38623	0.1311232	0.17173060	3.2055625	21	5 7.5	19.8
138726 2000 SY_{176}	14.3	X	268.95524	109.14400	239.93778	13.36523	0.0344279	0.17273242	3.1931560	21	5 29.3	18.7
138727 2000 SU_{180}	19.0	X	262.19618	136.26772	327.92342	11.91665	0.6050386	0.32235533	2.1065874	21	8 11.9	22.7
138728 2000 SO_{186}	15.0	X	239.72835	231.71816	205.58041	9.45018	0.0422909	0.18321014	3.0702216	21	8 9.4	19.6
138729 2000 SB_{187}	14.4	X	243.18430	161.88989	257.96062	13.07990	0.2580099	0.17831099	3.1262040	21	7 1.1	19.6
138730 2000 SP_{187}	14.9	X	287.31129	31.33234	316.98425	9.74614	0.0535329	0.17730726	3.1379911	21	6 18.1	19.3
138731 2000 SE_{191}	15.2	X	238.61555	21.87226	31.44178	12.31706	0.1408970	0.17875194	3.1210607	21	7 1.0	20.2
138732 2000 SG_{191}	15.4	X	346.07385	321.23347	39.07632	10.09011	0.1004010	0.18741214	3.0241563	21	9 29.3	19.1
138733 2000 SB_{195}	15.6	X	267.44424	43.96541	0.77588	4.24775	0.1591422	0.18174426	3.0867082	21	7 20.7	20.1
138734 2000 SG_{195}	15.0	X	198.62256	256.48174	174.63396	11.11052	0.0924039	0.17686791	3.1431856	21	6 15.4	20.0
138735 2000 SR_{199}	15.0	X	218.26190	30.45096	16.74726	8.95120	0.0914136	0.17536656	3.1610997	21	6 4.4	20.0
138736 2000 SV_{199}	14.8	X	244.31332	269.62411	39.92838	1.81132	0.1403900	0.16873323	3.2434133	21	3 4.7	19.9
138737 2000 SX_{201}	15.6	X	244.40554	339.99388	63.38781	1.95064	0.1541872	0.17837930	3.1254058	21	6 22.9	20.5
138738 2000 SZ_{203}	14.9	X	235.69793	228.34597	180.54875	6.20969	0.0614707	0.17743356	3.1365018	21	6 29.7	19.6
138739 2000 SF_{206}	15.6	X	181.95051	200.42956	184.43043	2.89784	0.2463593	0.16693541	3.2666585	21	4 6.9	21.1
138740 2000 SB_{209}	14.8	X	199.98742	0.72606	38.87739	13.01549	0.1559743	0.17197573	3.2025158	21	5 6.7	19.9
138741 2000 SE_{213}	15.1	X	225.95606	325.00364	91.53890	7.82389	0.1782314	0.17597680	3.1537876	21	6 19.2	20.1
138742 2000 SR_{223}	14.5	X	311.19231	256.49902	16.92408	25.21748	0.2187621	0.17332025	3.1859321	21	3 27.1	18.8
138743 2000 SC_{225}	15.6	X	63.05855	45.37623	346.52321	1.33445	0.0710197	0.19979795	2.8978464	21	—	—
138744 2000 SB_{235}	15.6	X	263.57114	0.50493	35.63637	1.72677	0.1984984	0.18061742	3.0995332	21	6 29.2	20.2
138745 2000 SM_{235}	15.5	X	293.82044	41.53849	45.26392	1.57518	0.2742504	0.18810067	3.0167720	21	10 1.7	19.1
138746 2000 SD_{246}	14.9	X	309.68560	275.11988	15.79455	9.02188	0.0437476	0.17472253	3.1688629	21	5 4.1	19.4
138747 2000 SR_{246}	14.7	X	155.56098	69.88385	32.97069	9.57900	0.0575730	0.17528116	3.1621264	21	6 6.0	19.4
138748 2000 SU_{246}	14.4	X	148.65218	61.53397	41.65371	7.12420	0.1038613	0.17358610	3.1826784	21	6 2.6	19.4
138749 2000 SD_{253}	15.4	X	222.23889	152.33428	213.77421	3.50437	0.1511315	0.17280387	3.1922758	21	4 17.7	20.4
138750 2000 SH_{253}	15.4	X	331.05487	185.07845	142.71728	4.10705	0.1695159	0.18272346	3.0756708	21	7 10.9	18.9
138751 2000 SC_{259}	14.9	X	225.85195	347.84809	61.53838	10.01634	0.0962615	0.17481337	3.1677650	21	6 15.8	19.7
138752 2000 SP_{259}	14.6	X	207.54947	43.42158	51.29513	14.27222	0.0475010	0.17765963	3.1338405	21	7 30.4	19.4
138753 2000 SP_{270}	15.0	X	261.83669	214.91531	174.55976	10.09577	0.0792544	0.17726614	3.1384764	21	7 3.7	19.7
138754 2000 SA_{272}	14.6	X	330.05385	31.84056	260.88315	15.98955	0.1639553	0.18083314	3.0970678	21	5 21.9	18.4
138755 2000 SL_{272}	14.7	X	257.67301	175.89168	218.11277	5.02553	0.0178549	0.17819752	3.1275309	21	7 12.7	19.2
138756 2000 SC_{273}	14.5	X	247.49166	121.41125	205.90110	32.89505	0.1331536	0.16938400	3.2351006	21	3 26.4	19.8
138757 2000 SR_{280}	14.4	X	93.24348	283.62952	229.07538	16.85850	0.0591398	0.17107039	3.2138047	21	5 27.7	18.9
138758 2000 SS_{280}	14.8	X	230.08203	153.37790	254.36795	8.25916	0.0880833	0.17547347	3.1598156	21	6 19.5	19.5
138759 2000 SK_{281}	15.3	X	273.24794	77.84478	288.90667	8.88837	0.1633666	0.18004867	3.1060571	21	6 7.4	19.8
138760 2000 SO_{283}	15.3	X	325.58735	137.91828	251.97327	8.28590	0.0767079	0.18831694	3.0144618	21	9 28.9	19.3
138761 2000 SN_{286}	15.0	X	240.55210	142.31265	186.35633	26.30775	0.1593482	0.17294351	3.1905572	21	3 20.3	20.1
138762 2000 SR_{287}	14.9	X	322.76155	269.95698	33.82726	8.68023	0.1727236	0.17907834	3.1172671	21	5 22.5	18.8
138763 2000 SX_{290}	14.9	X	237.96903	38.56859	324.83972	4.24301	0.1367942	0.17353526	3.1832999	21	4 28.5	19.9
138764 2000 SP_{292}	14.4	X	230.82298	148.53982	261.27393	13.11337	0.2397112	0.17453228	3.1711652	21	6 11.1	19.7
138765 2000 SD_{306}	14.9	X	202.20378	208.71059	229.17755	16.29706	0.1539939	0.17513314	3.1639078	21	6 23.1	20.2
138766 2000 SL_{308}	14.8	X	282.96976	111.73815	253.69155	11.25564	0.0544900	0.17770364	3.1333230	21	7 2.9	19.2
138767 2000 ST_{313}	15.0	X	236.58368	42.23679	309.03432	12.07218	0.0878831	0.17048362	3.2211747	21	4 12.2	20.1
138768 2000 SM_{314}	14.5	X	195.24937	113.01500	295.80894	14.47454	0.0540135	0.17460477	3.1702875	21	5 12.1	19.5
138769 2000 SP_{314}	14.4	X	180.20025	106.23705	330.80662	31.91361	0.2019045	0.17255550	3.1953383	21	5 31.8	20.4
138770 2000 SK_{315}	14.6	X	307.56969	75.58395	253.43338	14.49209	0.1214501	0.17827392	3.1266374	21	6 10.5	18.7
138771 2000 SP_{316}	14.8	X	212.66577	160.55190	284.10659	16.27913	0.1843241	0.17846676	3.1243846	21	7 10.5	19.9
138772 2000 SH_{317}	14.7	X	275.65837	45.40946	244.95684	13.51595	0.1989499	0.17184898	3.2040902	21	2 27.5	19.9
138773 2000 SS_{318}	14.1	X	193.79659	225.86083	265.20639	15.89929	0.3252558	0.17459338	3.1704253	21	8 9.3	20.1
138774 2000 SJ_{320}	15.1	X	321.24306	150.13738	181.71137	10.46758	0.0754707	0.18400206	3.0614060	21	7 9.4	19.3
138775 2000 SA_{328}	14.4	X	167.11298	60.35259	13.36064	21.68160	0.0560295	0.16971645	3.2308746	21	5 7.7	19.5
138776 2000 SH_{328}	15.4	X	79.85146	240.53638	132.03244	2.90164	0.0352718	0.20103972	2.8859012	21	—	—
138777 2000 SX_{330}	15.3	X	238.27797	237.97308	126.63284	3.51907	0.1868833	0.17212656	3.2006446	21	4 29.7	20.4
138778 2000 ST_{334}	14.8	X	153.32212	311.38665	202.82067	12.14352	0.0591011	0.18014930	3.1049004	21	8 5.0	19.6
138779 2000 SL_{335}	14.8	X	342.35145	109.32200	237.19762	8.82096	0.0096139	0.18286484	3.0740853	21	8 28.9	19.2
138780 2000 SR_{338}	14.8	X	168.55767	12.47331	28.44211	12.52602	0.0494342	0.16921188	3.2372940	21	4 8.2	19.5
138781 2000 SH_{339}	13.9	X	107.35437	296.13115	78.80778	18.31091	0.1797000	0.15598854	3.4177550	21	1 17.7	18.9
138782 2000 SV_{344}	14.9	X	275.23900	285.34769	89.13782	12.65499	0.2431339	0.18008570	3.1056313	21	6 9.6	19.5
138783 2000 SJ_{349}	14.5	X	259.00536	260.12943	71.88810	14.58674	0.1497203	0.17209020	3.2010955	21	4 18.6	19.6
138784 2000 SN_{350}	15.2	X	250.67861	247.20854	146.31390	18.82360	0.2308273	0.17768423	3.1335512	21	6 12.2	20.5
138785 2000 SA_{351}	14.4	X	232.36037	20.63065	60.97226	20.90897	0.2281696	0.17915712	3.1163532	21	7 24.5	19.8
138786 2000 SL_{355}	15.4	X	318.65046	285.06264	55.20536	12.27203	0.1717343	0.18196509	3.0842104	21	7 6.4	19.2
138787 2000 SJ_{358}	14.0	X	105.38115	208.91313	293.45705	9.76775	0.1168361	0.17174410	3.2053946	21	6 6.0	18.7
138788 2000 SQ_{359}	14.9	X	266.37136	128.14358	243.10088	14.01638	0.0570957	0.17713854	3.1399833	21	6 19.2	19.4
138789 2000 SU_{362}	15.1	X	338.34797	213.63508	88.94493	9.13570	0.2297474	0.18360721	3.0657935	21	6 12.9	18.3
138790 2000 SZ_{362}	15.8	X	113.71085	47.75874	341.28074	3.28935	0.1083380	0.20891429	2.8129193	21	1 21.4	19.6
138791 2000 SK_{363}	15.3	X	252.34896	155.48285	176.95659	10.59286	0.2222559	0.17619497	3.1511836	21	3 31.8	20.4
138792 2000 SP_{365}	15.1	X	212.80992	273.66091	155.41610	16.42181	0.2296655	0.17693714	3.1423657	21	6 21.2	20.7
138793 2000 SV_{368}	15.8	X	24.74018	246.36896	65.08892	1.41841	0.1970860	0.18973098	2.9994656	21	10 5.9	19.1
138794 2000 TU_{2}	15.4	X	236.76200	194.18149	175.27222	3.64904	0.2069727	0.17587872	3.1549599	21	5 2.1	20.6
138795 2000 TB_{4}	15.2	X	351.60551	80.28029	188.77173	10.82508	0.1052540	0.17796294	3.1302787	21	6 3.1	19.2
138796 2000 TV_{6}	16.1	X	92.30014	152.28801	195.02358	1.37911	0.0719526	0.19942270	2.9014805	21	—	—
138797 2000 TR_{9}	14.7	X	250.37414	169.09422	198.08393	9.04118	0.1002687	0.17493863	3.1662526	21	5 22.4	19.5
138798 2000 TA_{13}	14.9	X	249.50201	123.72194	200.32632	5.06314	0.0137669	0.16828149	3.2492152	21	4 7.1	19.4
138799 2000 TT_{15}	15.1	X	333.40897	120.46332	205.04430	3.86703	0.0715211	0.17934781	3.1141438	21	7 20.0	19.1
138800 2000 TZ_{19}	14.8	X	301.12693	294.95790	79.71841	11.32753	0.0954104	0.18213163	3.0823300	21	8 7.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138801 2000 TJ_{26}	17.0	X	108.83895	301.19608	161.59448	1.42926	0.1396171	0.26169072	2.4207160	21	4 17.4	19.9
138802 2000 TL_{27}	14.9	X	204.19633	29.42715	39.05164	12.25660	0.0778392	0.17473781	3.1686781	21	6 16.9	19.8
138803 2000 TT_{34}	15.2	X	334.29007	180.54132	145.46800	2.50390	0.1150857	0.18095783	3.0956448	21	7 19.5	18.9
138804 2000 TG_{36}	14.5	X	189.29081	215.67391	223.72535	7.26527	0.1203364	0.17310942	3.1885183	21	6 15.2	19.5
138805 2000 TE_{39}	14.3	X	173.87792	108.74247	11.24072	26.36647	0.2253435	0.17796892	3.1302086	21	7 31.5	20.1
138806 2000 TK_{39}	15.0	X	285.67896	273.77217	72.81801	8.79670	0.2231531	0.17981202	3.1087818	21	5 20.3	19.4
138807 2000 TA_{43}	14.8	X	263.22168	238.40940	149.20258	15.48936	0.0946076	0.17972092	3.1098322	21	7 1.8	19.5
138808 2000 TD_{43}	14.8	X	262.47428	40.82145	46.56078	10.87441	0.1281161	0.18507670	3.0495438	21	9 16.1	19.2
138809 2000 TF_{43}	14.5	X	191.91945	9.25409	31.81684	19.60699	0.1421128	0.17152688	3.2081002	21	4 30.4	19.7
138810 2000 TB_{50}	14.4	X	156.81157	66.35918	29.02278	10.75108	0.1132321	0.17381946	3.1798291	21	5 31.8	19.5
138811 2000 TW_{50}	13.9	X	141.99477	63.81094	80.54204	14.41013	0.2413461	0.17218902	3.1998705	21	7 26.9	19.5
138812 2000 TY_{54}	16.1	X	310.82324	31.40630	31.87154	1.11835	0.1276587	0.18743953	3.0238617	21	10 19.3	19.7
138813 2000 TO_{56}	15.3	X	248.26796	106.08145	305.90459	8.61866	0.0908334	0.18019389	3.1043881	21	7 15.9	19.7
138814 2000 TD_{58}	15.4	X	279.90025	344.48377	75.19954	6.69320	0.1916670	0.18164594	3.0878220	21	8 21.6	19.7
138815 2000 TQ_{64}	17.9	X	51.51359	228.03491	20.31348	8.24836	0.3814796	0.32633927	2.0894076	21	10 6.4	20.4
138816 2000 TG_{65}	15.0	X	93.52474	228.97767	249.24423	1.67021	0.2611424	0.16314050	3.3171225	21	5 13.2	19.9
138817 2000 UR_{8}	14.5	X	156.87255	248.33008	58.02509	8.42530	0.0829494	0.24677186	2.5173231	21	—	—
138818 2000 UK_{15}	15.9	X	260.87006	17.53400	51.33413	0.64039	0.2043685	0.17848578	3.1241627	21	8 5.7	20.4
138819 2000 UL_{22}	14.4	X	175.07379	58.22468	51.73537	17.40055	0.0878032	0.17359182	3.1826084	21	7 9.3	19.5
138820 2000 UN_{22}	15.1	X	228.69520	1.93163	62.55776	9.49488	0.1542389	0.17519259	3.1631920	21	7 3.4	20.2
138821 2000 UM_{23}	15.2	X	272.35125	274.57315	107.55249	6.49562	0.1504750	0.17686575	3.1432111	21	6 27.9	19.6
138822 2000 UR_{23}	15.2	X	248.42440	351.21712	65.92526	11.78007	0.2165165	0.17653177	3.1471744	21	7 7.9	20.2
138823 2000 UR_{24}	14.1	X	125.47377	105.95578	44.62256	14.47877	0.0791395	0.17368212	3.1815052	21	7 5.7	19.0
138824 2000 UK_{28}	15.2	X	358.08371	95.80152	298.73818	10.25656	0.1468826	0.18959876	3.0008599	21	12 1.4	18.9
138825 2000 UR_{31}	15.9	X	233.64967	79.64034	67.38186	4.09318	0.1030928	0.18756089	3.0225572	21	10 25.2	20.2
138826 2000 UY_{42}	14.8	X	257.28897	118.92327	218.12755	17.76268	0.1481891	0.17010518	3.2259504	21	4 16.1	19.7
138827 2000 UB_{44}	16.0	X	283.42145	152.67795	274.02224	1.56922	0.1365897	0.22988666	2.6391265	21	9 13.9	19.1
138828 2000 UD_{52}	14.6	X	228.00856	152.25369	230.80754	8.06116	0.0696407	0.16988842	3.2286939	21	5 19.6	19.3
138829 2000 UL_{58}	14.5	X	178.06505	272.42918	222.15870	19.51393	0.1941468	0.17616186	3.1515785	21	8 3.8	20.2
138830 2000 UJ_{62}	15.3	X	214.28909	67.03628	20.59198	13.24799	0.2863896	0.17419106	3.1753052	21	7 13.1	21.1
138831 2000 UD_{68}	14.3	X	131.09123	257.26628	252.56500	12.27551	0.1818474	0.17233473	3.1980666	21	7 16.4	19.5
138832 2000 UX_{88}	15.2	X	228.04722	274.23369	111.29582	5.55698	0.1704633	0.17196440	3.2026564	21	5 16.7	20.4
138833 2000 UE_{91}	14.4	X	69.52112	211.83194	5.85385	17.45570	0.0516753	0.17746607	3.1361187	21	7 23.9	19.1
138834 2000 UQ_{92}	14.7	X	247.80115	343.49297	353.95462	10.31521	0.0885838	0.17012508	3.2256988	21	4 10.6	19.6
138835 2000 UZ_{97}	15.9	X	303.54115	115.34904	337.96237	4.94310	0.2236516	0.18740479	3.0242354	21	11 2.1	19.2
138836 2000 UW_{100}	14.4	X	223.88134	134.96771	298.65815	4.57928	0.1553240	0.17383817	3.1796010	21	7 9.9	19.4
138837 2000 UC_{109}	15.1	X	343.52811	260.98326	96.57868	8.04848	0.1427941	0.18332583	3.0689297	21	9 21.0	18.7
138838 2000 VL_{3}	16.2	X	197.50042	341.00567	40.70344	6.21875	0.2108223	0.26187711	2.4195672	21	4 9.2	20.2
138839 2000 VA_{10}	15.1	X	264.98706	266.98562	73.44029	2.35607	0.1862748	0.17271023	3.1934296	21	4 25.3	20.1
138840 2000 VB_{10}	14.9	X	339.84263	283.98243	51.85169	8.37277	0.0352035	0.17906140	3.1174637	21	8 18.9	19.2
138841 2000 VT_{15}	15.4	X	135.90388	287.22089	212.65131	9.49652	0.2764428	0.21632456	2.7483086	21	7 15.5	20.3
138842 2000 VN_{22}	14.8	X	159.15618	19.92221	90.60644	6.27866	0.1116791	0.16972939	3.2307104	21	6 23.7	19.9
138843 2000 VF_{39}	18.2	X	244.95073	220.69040	46.54065	33.79055	0.1649948	0.49273884	1.5875406	21	—	—
138844 2000 VC_{41}	15.0	X	169.15092	93.63388	17.31402	7.66273	0.1076064	0.17308050	3.1888735	21	7 4.9	20.1
138845 2000 VV_{57}	15.4	X	304.87733	341.95501	41.74505	7.89500	0.2515596	0.22797028	2.6538959	21	8 3.9	18.4
138846 2000 VJ_{61}	16.0	X	112.51976	280.53411	270.51283	18.66768	0.5629840	0.30510047	2.1852819	21	9 8.7	21.0
138847 2000 VE_{62}	17.0	X	191.49905	16.27460	207.10297	22.17987	0.2876922	0.47853600	1.6187992	21	—	—
138848 2000 WD_{1}	17.2	X	204.88264	104.24473	219.36481	2.48734	0.2359845	0.30437372	2.1887590	21	1 28.1	20.7
138849 2000 WL_{3}	14.3	X	241.18962	306.51640	104.76326	29.00400	0.2902551	0.17547299	3.1598213	21	6 20.3	19.8
138850 2000 WR_{6}	16.7	X	182.76573	87.73341	299.66156	6.17862	0.0844515	0.30854947	2.1689665	21	3 19.7	19.6
138851 2000 WW_{7}	14.8	X	278.37101	285.63970	95.54606	10.91019	0.2447809	0.17739578	3.1369471	21	6 20.9	19.4
138852 2000 WN_{10}	20.2	X	317.71440	225.31886	60.87909	21.50847	0.2981973	0.98373812	1.0012666	21	11 6.2	18.9
138853 2000 WN_{13}	16.9	X	285.21407	288.58462	60.00204	5.96233	0.2048653	0.31710258	2.1297871	21	5 16.3	19.1
138854 2000 WK_{17}	15.3	X	120.30192	110.78600	23.71859	1.34732	0.2574790	0.16507264	3.2911877	21	6 27.0	20.6
138855 2000 WU_{28}	17.0	X	272.61865	148.18732	181.57871	3.55734	0.1938926	0.31365003	2.1453879	21	4 6.7	19.7
138856 2000 WT_{34}	16.4	X	212.29271	192.67057	204.55650	5.91818	0.1514490	0.26413852	2.4057374	21	5 12.1	20.1
138857 2000 WC_{47}	16.6	X	43.02379	144.56353	197.14628	5.22863	0.1917291	0.28462638	2.2888603	21	12 27.4	19.6
138858 2000 WE_{62}	14.3	X	243.20948	328.86052	93.95397	15.71531	0.1994013	0.17544021	3.1602149	21	7 11.3	19.3
138859 2000 WN_{63}	18.9	X	66.10398	144.35788	55.91202	13.14753	0.5315180	0.49938626	1.5734212	21	9 18.9	21.4
138860 2000 WO_{77}	15.1	X	277.17419	167.23270	264.20308	9.62127	0.0241532	0.18150682	3.0893996	21	9 18.6	19.6
138861 2000 WO_{87}	15.9	X	19.38563	170.80083	296.99954	5.90325	0.1943566	0.29096920	2.2554751	21	—	—
138862 2000 WP_{113}	15.7	X	132.79936	94.90789	44.84375	11.10724	0.2088802	0.21520717	2.7578135	21	7 11.8	20.4
138863 2000 WO_{119}	14.5	X	181.71604	264.27536	267.93950	24.29177	0.2182633	0.17721202	3.1391153	21	9 13.7	20.4
138864 2000 WM_{143}	14.4	X	263.16415	302.00330	115.51986	28.19729	0.2483782	0.17419790	3.1752221	21	7 19.1	19.2
138865 2000 WP_{159}	14.7	X	160.04835	52.87236	53.38377	19.53544	0.1418790	0.17187664	3.2037465	21	6 18.3	20.0
138866 2000 WO_{163}	15.6	X	337.40113	29.39498	55.70932	2.87575	0.0772721	0.19177363	2.9781286	21	12 30.6	19.4
138867 2000 XD_{5}	14.5	X	107.85311	14.13935	23.93825	14.13403	0.1042616	0.15500851	3.4321455	21	2 9.2	19.6
138868 2000 XR_{15}	17.2	X	178.72364	340.44808	330.81503	11.09770	0.1059644	0.48795207	1.5979062	21	—	—
138869 2000 XL_{16}	15.3	X	37.97366	61.61756	307.87496	9.50704	0.1150507	0.19070288	2.9892659	21	12 26.1	19.4
138870 2000 XP_{16}	14.7	X	225.75026	163.53556	284.15228	12.86715	0.1503875	0.17483716	3.1674776	21	7 27.2	19.7
138871 2000 XG_{17}	14.4	X	299.07707	62.38588	306.81527	8.73778	0.3275029	0.17759753	3.1345709	21	6 19.0	18.6
138872 2000 XU_{31}	15.2	X	336.43991	141.80858	314.14787	10.27667	0.0904601	0.19030176	2.9934650	21	—	—
138873 2000 XV_{34}	15.7	X	249.38038	157.33205	349.43151	11.44317	0.1816000	0.27731816	2.3288982	21	11 9.7	18.8
138874 2000 XN_{35}	14.8	X	292.59160	104.38567	338.14552	10.14108	0.1698821	0.18127937	3.0919832	21	10 4.9	18.7
138875 2000 XF_{37}	14.8	X	258.77942	83.39192	310.08860	15.07132	0.1054189	0.17450329	3.1715165	21	7 4.2	19.6
138876 2000 XA_{45}	14.1	X	198.97603	77.79795	15.20912	25.20075	0.1874170	0.17180809	3.2045986	21	7 14.6	19.9
138877 2000 XG_{47}	16.6	X	170.73072	127.56605	43.85829	25.28294	0.5420790	0.31444037	2.1417914	21	10 2.2	21.6
138878 2000 YE_{1}	15.3	X	110.89892	224.06996	64.11074	16.38743	0.0375870	0.18890976	3.0081521	21	12 1.9	19.8
138879 2000 YQ_{2}	16.4	X	143.91969	353.20678	75.94372	22.84346	0.2029791	0.30559104	2.1829425	21	4 27.6	20.0
138880 2000 YK_{6}	16.6	X	307.40005	355.04246	42.51749	3.44645	0.1772805	0.32396225	2.0996156	21	9 24.4	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138881 2000 YD_9	15.9	X	263.46605	269.78744	251.62787	4.78512	0.0925714	0.23528066	2.5986347	21	12 28.9	19.1
138882 2000 YZ_9	16.7	X	112.19690	87.46935	344.85723	3.93182	0.0941292	0.30023645	2.2088206	21	2 25.1	18.8
138883 2000 YL_{29}	16.7	X	103.49774	115.87914	182.76308	21.89331	0.3440813	0.51774128	1.5360105	21	—	—
138884 2000 YQ_{37}	16.3	X	329.73852	219.84417	269.53280	6.02243	0.1088556	0.28737961	2.2742179	21	—	—
138885 2000 YR_{41}	16.5	X	50.11066	191.34835	302.04428	1.24710	0.0757250	0.29889776	2.2154108	21	2 9.9	18.5
138886 2000 YJ_{46}	16.1	X	236.56851	243.85507	278.48505	4.07002	0.0540886	0.27870517	2.3211651	21	12 8.4	18.9
138887 2000 YE_{50}	16.5	X	102.81196	223.10667	243.62150	1.97195	0.0303986	0.30172902	2.2015303	21	3 20.8	18.9
138888 2000 YQ_{52}	15.5	X	107.79755	160.33274	307.90550	5.98760	0.0718267	0.30316225	2.1945862	21	4 3.6	18.1
138889 2000 YY_{55}	16.7	X	41.72774	258.96577	230.23849	4.19471	0.0745452	0.29703648	2.2246559	21	1 19.5	18.8
138890 2000 YD_{61}	13.5	X	102.02979	298.64830	292.69945	23.84672	0.1846937	0.17104976	3.2140631	21	9 13.9	19.0
138891 2000 YY_{61}	16.2	X	343.97624	239.96230	297.48474	6.62025	0.0730543	0.29389828	2.2404643	21	—	—
138892 2000 YM_{64}	16.5	X	148.72859	79.67034	311.22584	4.55263	0.1944169	0.29981252	2.2109023	21	2 28.1	19.5
138893 2000 YH_{66}	18.1	X	335.89515	341.35428	265.27410	18.34197	0.7435158	0.77577499	1.1730383	21	10 20.9	18.6
138894 2000 YW_{67}	16.0	X	347.36495	178.28961	291.36299	5.72711	0.1909042	0.28514285	2.2860956	21	—	—
138895 2000 YL_{74}	15.6	X	349.98027	56.44212	5.04992	0.76919	0.2035574	0.18868867	3.0105014	21	12 28.6	18.7
138896 2000 YN_{74}	16.2	X	132.58718	185.03078	273.94943	3.71185	0.1633544	0.30704377	2.1760516	21	5 9.7	19.1
138897 2000 YV_{77}	16.4	X	89.30692	201.28774	271.91076	2.99288	0.1098539	0.30274333	2.1966102	21	3 21.2	18.6
138898 2000 YU_{87}	14.3	X	248.60424	339.40762	97.48411	16.19464	0.1774911	0.17443780	3.1723102	21	8 7.6	19.2
138899 2000 YD_{95}	14.8	X	320.10705	249.86221	120.39174	14.65470	0.0951062	0.17401295	3.1774715	21	8 29.8	18.9
138900 2000 YW_{97}	16.4	X	33.01330	352.15315	121.15540	7.43956	0.0628563	0.29226294	2.2488141	21	—	—
138901 2000 YU_{98}	16.4	X	90.97734	243.85441	295.03546	4.77954	0.1367144	0.25946000	2.4345710	21	7 8.5	19.4
138902 2000 YO_{102}	16.4	X	114.53958	163.81905	243.03062	6.19702	0.1069562	0.29606809	2.2295043	21	1 23.8	19.0
138903 2000 YA_{107}	15.1	X	243.13111	329.82730	110.70661	2.53557	0.1558542	0.17445975	3.1720441	21	8 6.9	19.8
138904 2000 YO_{108}	14.7	X	260.60893	319.03512	83.52829	6.39887	0.1675655	0.17247022	3.1963915	21	7 7.9	19.4
138905 2000 YK_{110}	17.0	X	70.49732	175.29004	322.61883	4.47870	0.0922975	0.30120135	2.2041007	21	3 24.1	19.2
138906 2000 YO_{118}	16.5	X	104.03053	111.85287	319.79206	7.93582	0.1386775	0.29676182	2.2260284	21	2 18.5	18.7
138907 2000 YB_{129}	16.2	X	112.36032	106.72364	341.77285	5.97206	0.0727345	0.30005378	2.2097169	21	3 15.7	18.7
138908 2000 YG_{130}	15.0	X	294.28379	95.10121	267.37625	3.90720	0.1901233	0.17443435	3.1723521	21	6 25.0	19.0
138909 2000 YO_{135}	16.1	X	130.32076	17.17529	27.46373	7.47378	0.0805851	0.29862609	2.2167542	21	2 13.2	18.8
138910 2000 YE_{136}	16.3	X	10.14671	161.00887	33.30172	2.41723	0.0506067	0.29914641	2.2141831	21	3 7.5	18.4
138911 2001 AE_2	19.2	X	285.20368	43.11646	171.44002	1.66183	0.0815531	0.62862170	1.3496147	21	—	—
138912 2001 AD_4	15.1	X	231.61579	326.87286	131.11299	12.13382	0.1881868	0.17238952	3.1973890	21	8 13.6	20.2
138913 2001 AJ_{11}	16.6	X	216.74830	276.75598	272.33928	4.20349	0.0851122	0.27904327	2.3192898	21	12 13.5	19.3
138914 2001 AB_{12}	15.8	X	48.55701	102.21899	279.02216	7.87053	0.1450903	0.28448341	2.2896271	21	—	—
138915 2001 AW_{13}	16.4	X	37.93610	107.81261	101.18792	5.46179	0.1200397	0.30446914	2.1883017	21	5 22.3	18.2
138916 2001 AS_{14}	17.0	X	24.07350	294.45862	170.00668	4.95997	0.1186510	0.29064124	2.2571715	21	—	—
138917 2001 AZ_{19}	16.9	X	153.78769	314.64789	63.42828	5.22183	0.1940717	0.29903238	2.2147459	21	2 20.6	20.0
138918 2001 AJ_{22}	16.6	X	301.65394	305.76203	194.55266	2.41537	0.0983581	0.28351741	2.2948249	21	—	—
138919 2001 AU_{23}	16.3	X	176.56250	2.71374	145.29187	2.82570	0.0736728	0.26712038	2.3878005	21	9 1.3	19.7
138920 2001 AE_{24}	17.0	X	356.37640	247.56906	208.45643	1.34543	0.1099455	0.28622376	2.2803364	21	—	—
138921 2001 AR_{24}	16.6	X	172.80058	326.82851	71.55132	5.93992	0.1701398	0.30392306	2.1909222	21	4 5.1	19.9
138922 2001 AY_{39}	16.3	X	91.13827	339.41575	82.04229	6.58000	0.1318569	0.29538502	2.2329401	21	1 13.3	18.3
138923 2001 AS_{40}	14.9	X	193.65578	251.73912	311.77751	4.80688	0.1873542	0.17987031	3.1081101	21	11 10.7	20.2
138924 2001 AV_{40}	16.7	X	197.80364	191.00671	358.53460	1.89417	0.1191659	0.27571479	2.3379184	21	11 16.2	19.9
138925 2001 AU_{43}	15.9	X	193.25804	149.29834	129.30531	72.15905	0.3765775	0.37729756	1.8967644	21	—	—
138926 2001 BA	15.9	X	335.12806	195.51089	343.14553	5.32275	0.1282176	0.29056316	2.2575758	21	—	—
138927 2001 BR	16.4	X	42.15431	131.97395	6.23358	5.88974	0.1068139	0.29540329	2.2328480	21	2 6.6	18.3
138928 2001 BP_1	17.6	X	104.07289	186.37075	210.67360	2.17192	0.1083223	0.29400217	2.2399364	21	—	—
138929 2001 BU_1	16.6	X	114.08101	161.62084	292.87444	2.27757	0.1119841	0.29956367	2.2121265	21	4 2.1	19.2
138930 2001 BQ_3	17.1	X	352.03735	113.02895	32.70931	6.04412	0.0596377	0.29125937	2.2539768	21	—	—
138931 2001 BJ_4	15.6	X	224.34422	203.17373	352.50016	13.39312	0.0584655	0.23246886	2.6195470	21	12 26.7	19.4
138932 2001 BB_8	14.2	X	194.16051	267.18242	316.68458	20.74584	0.2894150	0.18016057	3.1047708	21	11 27.7	20.0
138933 2001 BT_8	14.6	X	23.84068	25.48206	328.05781	6.96795	0.0713802	0.17925952	3.1151662	21	11 6.2	18.8
138934 2001 BW_8	16.7	X	12.70896	22.79779	110.26517	5.77879	0.0861138	0.29174659	2.2514667	21	—	—
138935 2001 BH_{12}	16.0	X	117.52713	264.05482	264.79179	4.10484	0.0970446	0.21417187	2.7666938	21	7 21.0	20.0
138936 2001 BK_{13}	17.0	X	121.83949	165.65267	258.56256	2.71659	0.0971729	0.29927365	2.2135554	21	2 26.3	19.4
138937 2001 BK_{16}	17.6	X	330.76406	252.39357	98.88338	31.82007	0.6780821	0.33031645	2.0726020	21	5 15.0	20.6
138938 2001 BJ_{18}	16.3	X	176.99936	204.75772	232.00664	5.59363	0.1110981	0.30654745	2.1783997	21	5 25.9	19.4
138939 2001 BE_{20}	16.8	X	25.77012	82.43455	325.49588	3.59265	0.1247357	0.28404241	2.2919963	21	—	—
138940 2001 BO_{23}	15.9	X	351.60090	325.00984	290.52208	3.63001	0.1371637	0.30470462	2.1871741	21	4 25.6	17.8
138941 2001 BU_{28}	16.5	X	186.78315	59.49442	121.70500	2.80405	0.1723722	0.27111884	2.3642655	21	10 22.2	20.2
138942 2001 BP_{29}	14.8	X	168.81470	41.41591	106.90044	7.22863	0.0613545	0.16998916	3.2274181	21	8 19.8	19.6
138943 2001 BT_{30}	16.0	X	215.86107	353.80736	152.96139	5.12266	0.1777441	0.27140474	2.3626049	21	10 6.7	19.4
138944 2001 BF_{31}	15.7	X	151.62025	8.37986	143.44451	6.32613	0.0521969	0.26322022	2.4113294	21	8 6.1	18.8
138945 2001 BZ_{37}	16.4	X	280.15118	334.67050	241.20912	10.14225	0.1820005	0.28845784	2.2685472	21	—	—
138946 2001 BA_{39}	17.3	X	255.53495	245.98336	319.69093	2.48126	0.1082658	0.28403574	2.2920323	21	—	—
138947 2001 BA_{40}	18.6	X	338.38319	0.05766	270.88183	12.84514	0.2536617	0.83286873	1.1187980	21	—	—
138948 2001 BR_{47}	16.1	X	262.64919	286.20475	162.25423	6.64320	0.0858021	0.26943131	2.3741273	21	9 28.6	18.9
138949 2001 BS_{58}	16.4	X	286.53797	336.37859	139.73218	4.32237	0.1198386	0.27758120	2.3274267	21	12 11.9	18.8
138950 2001 BR_{61}	15.9	X	202.78573	267.54982	309.97722	4.88582	0.1966996	0.27620016	2.3351786	21	12 19.7	19.4
138951 2001 BV_{62}	16.6	X	161.49747	297.91314	167.94178	3.06832	0.0726596	0.30706212	2.1759649	21	6 16.0	19.3
138952 2001 BP_{63}	16.5	X	358.75363	221.21633	285.22802	5.31294	0.1011117	0.29048221	2.2579953	21	—	—
138953 2001 BW_{68}	16.4	X	302.33922	135.50563	17.19306	4.26883	0.1811047	0.28234758	2.3011592	21	—	—
138954 2001 BD_{73}	16.6	X	52.91558	217.45820	249.14087	5.86238	0.1438736	0.29526742	2.2335329	21	1 6.2	18.2
138955 2001 BX_{73}	17.1	X	159.13334	304.34252	134.76127	3.46491	0.1104813	0.30505516	2.1854983	21	5 9.8	20.0
138956 2001 BK_{78}	16.7	X	45.39855	191.50749	214.42873	5.61126	0.1030481	0.28595315	2.2817749	21	—	—
138957 2001 BT_{79}	17.1	X	212.48102	239.32420	326.25463	3.05401	0.1494477	0.27769505	2.3267905	21	12 20.9	20.3
138958 2001 BZ_{79}	16.5	X	3.57984	199.29219	341.63056	2.71712	0.1061107	0.29436798	2.2380803	21	1 29.9	18.6
138959 2001 CZ_2	16.2	X	30.03596	75.91263	3.17320	5.81680	0.1006282	0.28637695	2.2795232	21	—	—
138960 2001 CQ_3	16.7	X	318.58849	135.50901	0.47643	5.79127	0.1241611	0.28335701	2.2956909	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138961 2001 CJ_5	16.4	X	313.63359	161.12206	68.22924	4.17827	0.1126163	0.29217587	2.2492608	21	1 23.8	19.2
138962 2001 CP_7	16.6	X	203.55685	204.99227	15.21887	2.24935	0.1850828	0.27627484	2.3347578	21	12 25.2	19.8
138963 2001 CA_9	16.8	X	39.14816	74.63355	89.45737	3.45169	0.0901988	0.29754468	2.2221221	21	3 12.2	18.8
138964 2001 CL_9	15.4	X	265.19543	49.57024	52.18360	3.84613	0.2115651	0.22447782	2.6813515	21	9 25.7	18.9
138965 2001 CD_{17}	16.2	X	85.61451	23.94141	103.34117	4.90617	0.1421573	0.30004728	2.2097489	21	4 16.5	18.4
138966 2001 CS_{17}	16.2	X	64.89386	323.88899	109.78389	7.04196	0.0596895	0.29080464	2.2563259	21	—	—
138967 2001 CN_{18}	16.4	X	38.32933	354.20430	150.53194	5.84701	0.0979530	0.29603699	2.2296604	21	2 6.3	18.2
138968 2001 CT_{18}	15.1	X	241.43845	305.73338	128.18040	3.08470	0.1791624	0.17043980	3.2217267	21	7 24.9	20.2
138969 2001 CZ_{18}	16.8	X	280.15443	73.15599	131.47742	4.55396	0.1270689	0.28642426	2.2792721	21	—	—
138970 2001 CV_{19}	16.7	X	244.74046	264.45565	266.02404	21.06409	0.0525673	0.47305360	1.6312824	21	—	—
138971 2001 CB_{21}	18.4	X	70.68049	271.81572	353.72251	7.89931	0.3334039	0.93696315	1.0343187	21	—	—
138972 2001 CO_{21}	16.0	X	178.70610	350.49602	56.19951	5.81949	0.0864640	0.30370114	2.1919893	21	4 16.5	18.8
138973 2001 CZ_{22}	16.5	X	192.36157	16.08343	146.15850	2.31790	0.0683386	0.27108603	2.3644563	21	10 10.6	19.7
138974 2001 CX_{24}	16.3	X	256.28702	146.90191	53.82849	3.36568	0.1714497	0.28156576	2.3054170	21	—	—
138975 2001 CT_{25}	17.0	X	239.92150	98.03074	79.33891	3.21055	0.1069678	0.27774879	2.3264904	21	12 25.2	19.6
138976 2001 CJ_{26}	16.2	X	290.48247	100.91231	116.18400	5.55349	0.1053936	0.28694585	2.2765092	21	—	—
138977 2001 CY_{31}	17.4	X	42.19403	139.95727	32.94117	25.71463	0.0410454	0.44413493	1.7013464	21	3 18.2	19.1
138978 2001 CD_{32}	16.1	X	154.98127	125.59978	322.73144	50.32648	0.2549869	0.40503011	1.8091636	21	—	—
138979 Černice	16.7	X	179.37722	119.65131	307.00660	6.50136	0.0823475	0.30589524	2.1814951	21	5 10.8	19.7
138980 2001 CY_{36}	17.3	X	281.02498	140.22749	8.55741	1.71133	0.1376497	0.28187714	2.3037189	21	—	—
138981 2001 CE_{47}	12.8	X	343.78254	285.33715	146.01201	8.72888	0.0660178	0.08476354	5.1325124	21	12 1.0	19.4
138982 2001 CS_{49}	16.1	X	91.28395	194.50276	58.86935	9.54765	0.1040464	0.26628734	2.3927778	21	10 18.6	19.4
138983 2001 DX_4	16.2	X	309.79306	164.04607	11.07937	6.03238	0.1005077	0.28662675	2.2781985	21	—	—
138984 2001 DY_6	16.9	X	80.18136	223.31083	314.17785	3.72180	0.0755930	0.30470903	2.1871530	21	6 8.8	19.2
138985 2001 DP_7	15.8	X	95.63497	33.49512	60.01610	5.23707	0.1139641	0.29559864	2.2318642	21	3 9.4	18.1
138986 2001 DB_{12}	16.4	X	195.55798	160.15261	10.65904	4.66016	0.1844079	0.26977716	2.3720978	21	10 14.6	19.9
138987 2001 DN_{12}	16.5	X	84.62873	45.06891	171.24766	13.77378	0.1811565	0.26016727	2.4301567	21	8 26.3	19.8
138988 2001 DQ_{12}	16.6	X	224.81678	125.67876	76.43753	3.73055	0.1481803	0.27708566	2.3302008	21	12 31.6	19.6
138989 2001 DK_{14}	16.6	X	40.30428	64.51745	342.24213	2.92875	0.1852507	0.28494182	2.2871708	21	—	—
138990 2001 DV_{14}	15.9	X	84.57691	66.84596	154.03281	9.07824	0.1547192	0.26096222	2.4252190	21	8 30.5	19.1
138991 2001 DF_{16}	15.8	X	15.61357	60.43518	61.83767	5.93814	0.1092519	0.28894426	2.2660005	21	—	—
138992 2001 DS_{16}	16.5	X	8.82633	9.99053	104.81869	6.09517	0.1039460	0.28701728	2.2761315	21	—	—
138993 2001 DQ_{19}	15.9	X	3.71540	77.10023	44.77161	6.80386	0.0641416	0.28606452	2.2811826	21	—	—
138994 2001 DY_{20}	16.1	X	297.93228	176.78625	50.95323	7.04453	0.0933515	0.28929355	2.2641762	21	1 4.9	19.2
138995 2001 DR_{22}	16.9	X	10.03920	157.36499	336.86299	4.46783	0.0579229	0.29079664	2.2563673	21	—	—
138996 2001 DT_{22}	17.1	X	208.53430	147.78002	57.19602	1.50997	0.1605984	0.27629907	2.3346213	21	12 13.9	20.1
138997 2001 DA_{24}	16.6	X	180.04528	130.35071	114.68949	3.34130	0.1122263	0.27755582	2.3275686	21	—	—
138998 2001 DX_{26}	17.1	X	31.81455	95.93114	123.58932	2.86616	0.1637311	0.30135563	2.2033484	21	5 31.1	18.5
138999 2001 DU_{27}	16.8	X	140.52539	208.89265	2.23996	5.99295	0.1582938	0.26687385	2.3892707	21	10 14.5	20.4
139000 2001 DA_{28}	16.4	X	71.21813	296.35623	135.73385	6.11496	0.1389288	0.29094950	2.2555769	21	—	—
139001 2001 DS_{30}	16.8	X	226.15847	145.28515	57.37899	4.42144	0.0575410	0.27804292	2.3248494	21	—	—
139002 2001 DL_{31}	16.4	X	181.72667	165.31669	42.67447	3.30361	0.1808729	0.27143036	2.3624562	21	11 17.9	20.1
139003 2001 DE_{34}	15.8	X	274.87025	101.97325	10.17304	6.05601	0.1286001	0.27393997	2.3480055	21	11 11.2	18.4
139004 2001 DN_{35}	16.5	X	182.10230	223.14768	327.74268	5.88072	0.0623170	0.27248877	2.3563347	21	11 2.5	19.7
139005 2001 DF_{36}	16.3	X	272.74259	16.85517	152.23998	7.04942	0.0422846	0.28176678	2.3043204	21	—	—
139006 2001 DF_{37}	16.8	X	208.62414	225.48332	340.66102	4.37125	0.1040091	0.27701634	2.3305895	21	12 23.0	19.8
139007 2001 DD_{41}	16.3	X	243.12667	106.59243	109.21678	1.87941	0.1624980	0.28044041	2.3115803	21	—	—
139008 2001 DZ_{41}	16.2	X	76.79172	304.27491	316.16177	5.04702	0.1120038	0.26570279	2.3962859	21	10 5.3	19.4
139009 2001 DH_{42}	12.3	X	338.22908	255.80826	169.06629	5.45069	0.0131137	0.08158851	5.2648182	21	11 17.4	19.2
139010 2001 DA_{45}	16.4	X	321.60109	135.84759	349.08765	4.43731	0.0358781	0.28143260	2.3061441	21	—	—
139011 2001 DC_{45}	16.3	X	271.30124	12.99523	145.19656	5.82516	0.0403853	0.27884620	2.3203824	21	—	—
139012 2001 DH_{45}	15.7	X	56.28275	134.01190	148.75793	6.98943	0.1616074	0.26425176	2.4050501	21	10 21.8	18.8
139013 2001 DD_{46}	16.6	X	208.92749	138.54782	20.62819	2.89092	0.1311961	0.27027117	2.3692064	21	10 18.4	19.9
139014 2001 DG_{46}	16.6	X	98.90108	268.07787	125.94809	2.93340	0.0979159	0.28977548	2.2616651	21	—	—
139015 2001 DR_{57}	16.7	X	94.22111	168.69219	129.06625	3.28962	0.2101968	0.27266550	2.3553164	21	12 23.1	20.4
139016 2001 DU_{58}	15.9	X	187.41155	57.29863	318.17239	4.78066	0.1761202	0.29952065	2.2123383	21	3 16.3	19.4
139017 2001 DQ_{59}	15.8	X	177.19593	251.97332	4.92920	6.57541	0.0831505	0.27625729	2.3348566	21	—	—
139018 2001 DF_{60}	16.2	X	301.68863	245.23152	318.84908	7.55632	0.0432237	0.29024402	2.2592304	21	—	—
139019 2001 DK_{61}	16.3	X	19.81368	126.42355	311.58632	6.05649	0.0881890	0.28493923	2.2871846	21	—	—
139020 2001 DD_{64}	16.3	X	178.92995	283.91924	321.91565	2.77158	0.1385227	0.27676034	2.3320265	21	—	—
139021 2001 DE_{64}	15.4	X	201.14366	123.58952	148.31388	14.37497	0.3193641	0.23271467	2.6177020	21	—	—
139022 2001 DL_{64}	15.8	X	285.75153	143.56198	319.35531	6.46296	0.0491487	0.27457497	2.3443840	21	11 26.1	18.6
139023 2001 DU_{65}	16.4	X	254.99821	78.61494	179.61042	3.49316	0.1570847	0.28784369	2.2717728	21	—	—
139024 2001 DF_{71}	16.9	X	324.92832	231.58418	268.46819	1.50010	0.1704268	0.28374880	2.2935772	21	—	—
139025 2001 DR_{71}	16.2	X	188.70673	58.93152	157.17222	6.18096	0.1385099	0.27307024	2.3529885	21	12 9.4	19.7
139026 2001 DB_{75}	16.4	X	262.75704	350.12436	238.78976	1.36688	0.1858842	0.28626290	2.2801286	21	—	—
139027 2001 DS_{83}	16.8	X	127.22782	160.54915	85.80696	1.73585	0.1790700	0.26743239	2.3859429	21	11 17.3	20.6
139028 Haynald	16.7	X	357.93317	103.83500	44.39654	6.29286	0.0737338	0.28973555	2.2618729	21	—	—
139029 2001 DO_{91}	16.6	X	341.44350	249.83448	184.52710	2.50436	0.1458645	0.27839092	2.3229116	21	—	—
139030 2001 DE_{98}	17.1	X	47.15977	272.95897	250.66847	4.15980	0.1422277	0.29848491	2.2174532	21	3 25.2	18.9
139031 2001 DL_{102}	16.8	X	178.84730	190.32719	28.07984	6.43627	0.1742498	0.27285100	2.3542487	21	11 27.9	20.5
139032 2001 DY_{102}	16.3	X	81.08978	42.45174	74.01147	4.98952	0.0884179	0.29773950	2.2211527	21	3 15.2	18.6
139033 2001 DO_{103}	16.7	X	307.54456	268.18157	236.32152	3.80432	0.0843181	0.28314102	2.2968582	21	—	—
139034 2001 DZ_{103}	15.5	X	176.57279	241.80379	333.89314	13.41094	0.0560397	0.22620681	2.6676710	21	11 19.8	19.7
139035 2001 DF_{105}	14.7	X	46.89410	170.50131	142.22697	10.35543	0.0864058	0.17469283	3.1692221	21	10 25.4	19.2
139036 2001 DG_{105}	16.0	X	2.91005	258.12516	283.12659	4.63828	0.1199726	0.29480462	2.2358699	21	1 25.7	18.3
139037 2001 DK_{105}	16.7	X	26.33157	283.22502	266.62964	3.24555	0.1291429	0.29881610	2.2158145	21	3 22.9	18.5
139038 2001 ED_2	16.2	X	289.56952	43.33781	108.94788	10.63851	0.1836090	0.28062404	2.3105718	21	—	—
139039 2001 EP_3	16.3	X	65.88240	56.67790	352.59703	10.68645	0.1281548	0.28623453	2.2802792	21	—	—
139040 2001 EV_5	16.6	X	216.94188	125.91901	80.74410	3.81361	0.1014732	0.27572989	2.3378330	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139041 2001 EG_6	16.2	X	72.08637	47.67843	36.31720	7.64912	0.1037229	0.29023704	2.2592667	21	1 11.8	18.4
139042 2001 EK_6	16.1	X	106.24205	112.39055	129.11109	8.67879	0.0759845	0.26472795	2.4021651	21	10 17.9	19.5
139043 2001 ER_6	16.6	X	312.97756	107.18264	106.18987	4.07389	0.0609796	0.28917604	2.2647895	21	1 8.6	19.2
139044 2001 EK_7	16.0	X	208.80076	129.08683	120.32572	4.30659	0.1122789	0.27904802	2.3192635	21	—	—
139045 2001 EQ_9	15.9	X	201.41525	255.80433	17.73156	4.49969	0.1397807	0.28079472	2.3096354	21	—	—
139046 2001 EE_{13}	15.1	X	244.84234	173.69307	87.62911	24.32392	0.1358903	0.28524619	2.2855434	21	—	—
139047 2001 EB_{16}	17.1	X	6.44228	346.26872	149.53733	47.01711	0.3863577	0.38803034	1.8616252	21	—	—
139048 2001 EO_{20}	16.3	X	229.37384	86.75076	196.86132	6.08712	0.1360661	0.28715818	2.2753869	21	—	—
139049 2001 EH_{21}	16.4	X	339.71904	201.86877	304.65534	5.32556	0.0772076	0.28601162	2.2814639	21	—	—
139050 2001 EA_{22}	16.1	X	292.21437	312.27478	244.61627	4.71889	0.0948880	0.28586415	2.2822484	21	—	—
139051 2001 EJ_{23}	16.0	X	231.45967	48.89048	208.47619	5.17839	0.1430245	0.28311624	2.2969922	21	—	—
139052 2001 EG_{26}	16.0	X	221.79699	296.11965	4.78462	3.79695	0.1894463	0.28685513	2.2769892	21	1 17.2	19.6
139053 2001 EP_{26}	16.5	X	348.60679	231.82130	267.71642	0.81019	0.0897200	0.28590778	2.2820162	21	—	—
139054 2001 EJ_{27}	16.4	X	120.98973	261.85240	187.11936	6.82454	0.1361567	0.29871004	2.2163389	21	4 9.8	19.0
139055 2001 FT	15.7	X	129.60214	118.31699	94.17724	9.04551	0.1757244	0.26234200	2.4167079	21	10 12.3	19.7
139056 2001 FY	19.1	X	283.07709	110.40542	111.24571	4.73360	0.3271744	0.38049554	1.8861215	21	—	—
139057 2001 FB_1	16.7	X	295.62486	219.34993	339.28643	5.30085	0.0909864	0.28763087	2.2728933	21	—	—
139058 2001 FB_2	15.4	X	254.74501	189.05826	21.44713	26.69277	0.1979560	0.27892547	2.3199428	21	—	—
139059 2001 FQ_2	17.0	X	282.76910	311.20178	197.83814	2.77133	0.1452495	0.27917381	2.3185667	21	—	—
139060 2001 FD_3	16.4	X	203.12745	190.68093	43.39890	2.54162	0.1625348	0.27649812	2.3335007	21	—	—
139061 2001 FF_3	15.6	X	210.20008	89.10927	162.11644	5.80694	0.1551203	0.27850808	2.3222601	21	—	—
139062 2001 FD_4	16.8	X	224.05470	147.21736	72.61373	5.54327	0.1998423	0.27669454	2.3323962	21	—	—
139063 2001 FJ_5	16.4	X	351.47492	215.39367	289.17635	2.92525	0.1246868	0.28677196	2.2774294	21	—	—
139064 2001 FK_5	16.3	X	310.76628	151.66164	321.83238	6.54759	0.1030003	0.27846652	2.3224911	21	—	—
139065 2001 FJ_7	17.4	X	75.54038	255.24485	45.18147	3.08847	0.2247994	0.26737655	2.3862751	21	12 9.9	21.1
139066 2001 FY_8	16.1	X	292.13142	161.93728	77.45173	4.39083	0.1667511	0.23949369	2.5680688	21	1 14.4	20.0
139067 2001 FC_9	16.0	X	170.40962	345.06746	263.46179	6.95270	0.1313633	0.27283677	2.3543306	21	12 30.9	19.6
139068 2001 FG_{10}	16.8	X	83.07421	334.29341	289.86311	2.64846	0.1223724	0.26330656	2.4108023	21	10 20.2	20.2
139069 2001 FJ_{11}	16.4	X	77.63960	68.49470	169.76726	3.26266	0.1674785	0.25893983	2.4378304	21	9 16.2	19.6
139070 2001 FL_{11}	16.4	X	222.10463	205.90973	22.63056	2.77005	0.1888202	0.27724246	2.3293222	21	—	—
139071 2001 FA_{12}	16.5	X	33.92061	92.51944	33.85182	6.26479	0.0596326	0.28862674	2.2676621	21	1 7.7	18.9
139072 2001 FL_{12}	16.6	X	39.21304	298.15143	149.70438	3.32207	0.1227102	0.28546269	2.2843877	21	—	—
139073 2001 FP_{13}	16.6	X	68.55341	202.46079	20.94482	4.16499	0.0824093	0.25685245	2.4510203	21	8 2.0	19.6
139074 2001 FR_{13}	16.1	X	146.85579	140.87910	176.81372	4.84891	0.1541974	0.27895236	2.3197937	21	—	—
139075 2001 FT_{13}	16.3	X	282.15857	211.25940	24.96921	4.02108	0.0842286	0.28716066	2.2753738	21	—	—
139076 2001 FX_{13}	15.9	X	143.51028	255.53282	13.81884	6.07763	0.1611556	0.27153754	2.3618345	21	12 30.2	19.7
139077 2001 FM_{14}	16.2	X	248.75830	347.60566	184.21838	6.78126	0.1839827	0.27578201	2.3375385	21	12 17.8	19.0
139078 2001 FN_{14}	16.1	X	281.41615	10.50756	183.63940	5.07051	0.1428725	0.28206055	2.3027201	21	—	—
139079 2001 FR_{15}	16.2	X	220.69622	232.75015	11.35188	6.19665	0.1428250	0.27885312	2.3203440	21	—	—
139080 2001 FP_{16}	16.5	X	234.08697	138.18507	51.60729	2.78417	0.1449273	0.27499831	2.3419774	21	12 27.4	19.3
139081 2001 FU_{16}	16.4	X	118.17420	14.68996	156.95546	2.87709	0.1334927	0.25706329	2.4496799	21	7 30.8	19.9
139082 2001 FD_{18}	16.7	X	168.34884	35.95907	212.09158	2.06698	0.1386378	0.27218703	2.3580758	21	12 27.8	20.2
139083 2001 FZ_{19}	17.0	X	175.45192	217.86030	332.32768	1.76990	0.1558012	0.26743307	2.3859388	21	10 21.3	20.8
139084 2001 FY_{22}	16.4	X	72.37804	111.71813	121.66935	2.92247	0.1297544	0.25596873	2.4566584	21	8 28.5	19.4
139085 2001 FE_{25}	15.8	X	158.18230	249.02973	359.85160	4.63783	0.0979896	0.27100020	2.3649555	21	12 20.6	19.3
139086 2001 FL_{25}	15.7	X	245.15578	173.58139	355.66332	4.24049	0.1305134	0.27407339	2.3472435	21	12 16.7	18.5
139087 2001 FW_{26}	15.6	X	244.92831	207.11570	356.97240	11.64848	0.1141393	0.27751808	2.3277796	21	—	—
139088 2001 FD_{28}	16.8	X	263.72777	116.43204	54.94201	3.50276	0.1620859	0.27821142	2.3239106	21	—	—
139089 2001 FS_{28}	16.2	X	317.60901	106.11350	52.99577	6.17335	0.0955829	0.28339120	2.2955062	21	—	—
139090 2001 FE_{29}	16.0	X	196.10235	43.97882	154.17021	5.52053	0.2483972	0.26879888	2.3778498	21	11 15.4	19.9
139091 2001 FT_{30}	16.3	X	73.03424	324.86723	122.06067	2.98820	0.1233617	0.29025517	2.2591725	21	1 18.1	18.1
139092 2001 FU_{32}	15.4	X	0.57455	244.44584	223.97006	22.01188	0.3030355	0.28258165	2.2998883	21	—	—
139093 2001 FC_{34}	16.5	X	232.91800	18.73831	138.56767	1.25380	0.1370018	0.27294082	2.3537322	21	11 13.5	19.3
139094 2001 FK_{34}	16.5	X	329.85276	189.81656	342.44603	3.82016	0.1159904	0.28721813	2.2750703	21	—	—
139095 2001 FR_{34}	16.3	X	178.81152	231.06496	333.85590	0.83278	0.1325052	0.27044895	2.3681681	21	11 14.2	19.7
139096 2001 FS_{34}	16.3	X	284.67291	82.98276	14.67314	2.26609	0.1594689	0.27341657	2.3510011	21	11 3.5	18.4
139097 2001 FZ_{34}	15.9	X	312.24049	164.67199	316.02300	6.66780	0.0597690	0.27946308	2.3169665	21	—	—
139098 2001 FP_{36}	16.8	X	321.55378	317.28530	216.84864	2.32813	0.0464719	0.28579628	2.2826098	21	—	—
139099 2001 FK_{38}	16.1	X	61.37880	211.05118	234.68578	3.52497	0.0815768	0.28876318	2.2669477	21	—	—
139100 2001 FW_{39}	16.4	X	273.85760	55.40846	198.56741	4.96979	0.2817038	0.23750430	2.5823894	21	1 4.6	21.0
139101 2001 FH_{41}	16.0	X	164.34484	85.55351	187.11055	6.11380	0.1150910	0.27538991	2.3397567	21	—	—
139102 2001 FT_{42}	16.1	X	315.77293	18.89149	113.84450	1.24345	0.1275189	0.28024958	2.3126295	21	—	—
139103 2001 FW_{42}	16.5	X	227.19605	63.05496	172.74849	3.91799	0.0721715	0.27956787	2.3163875	21	—	—
139104 2001 FH_{44}	15.7	X	214.08510	64.34121	206.60967	9.58148	0.1484199	0.28153704	2.3055738	21	—	—
139105 2001 FX_{46}	16.3	X	73.27442	314.33089	304.94439	2.18740	0.1695188	0.26060068	2.4274615	21	10 8.2	19.6
139106 2001 FC_{47}	16.4	X	163.46508	184.66093	31.40064	2.95656	0.1498467	0.26761744	2.3848429	21	11 11.9	20.2
139107 2001 FL_{47}	15.9	X	123.86053	69.48442	178.96489	5.24054	0.2002830	0.26489224	2.4011718	21	11 18.1	19.9
139108 2001 FA_{50}	16.6	X	103.55524	212.37365	47.14678	1.18202	0.1643566	0.26505885	2.4001654	21	11 10.6	20.3
139109 2001 FV_{50}	16.2	X	148.72487	219.07738	321.40174	3.85445	0.0945539	0.26103001	2.4247991	21	9 11.3	19.8
139110 2001 FJ_{51}	16.5	X	290.92202	184.22293	19.36436	3.26764	0.1764230	0.28353396	2.2947357	21	—	—
139111 2001 FP_{53}	16.2	X	291.13353	135.17435	26.57188	6.72496	0.1844989	0.27897880	2.3196471	21	—	—
139112 2001 FZ_{53}	15.7	X	260.35399	52.41553	202.37086	31.32388	0.2548014	0.23379160	2.6096571	21	—	—
139113 2001 FA_{55}	16.1	X	170.04365	184.07225	58.02732	3.25105	0.1628219	0.27062690	2.3671298	21	12 20.4	19.8
139114 2001 FH_{57}	16.7	X	90.21270	192.46958	175.51041	7.79788	0.0136904	0.27980978	2.3150522	21	—	—
139115 2001 FU_{59}	16.1	X	272.64849	210.16700	49.16613	4.04690	0.2013422	0.23969320	2.5666436	21	1 16.7	20.1
139116 2001 FB_{60}	16.2	X	169.86213	116.25244	154.81647	6.50945	0.1054817	0.27699942	2.3306844	21	—	—
139117 2001 FD_{60}	16.5	X	280.48797	111.96361	59.43486	4.54679	0.1589958	0.28044792	2.3115390	21	—	—
139118 2001 FZ_{60}	16.7	X	185.92086	150.68722	77.26729	3.01713	0.1701598	0.27294948	2.3536825	21	12 17.9	20.2
139119 2001 FJ_{61}	16.6	X	180.75903	18.23820	151.83229	6.80438	0.0625707	0.26627806	2.3928334	21	10 8.3	19.9
139120 2001 FY_{61}	16.8	X	182.79025	149.24624	78.55350	3.53213	0.1169744	0.27366494	2.3495784	21	12 19.2	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139121 2001 FU_{62}	16.5	X	129.95243	133.16108	123.65369	3.12682	0.1839356	0.26835267	2.3804849	21	12 2.8	20.2
139122 2001 FT_{63}	16.5	X	78.01878	340.00796	154.68897	4.11023	0.0716258	0.29675958	2.2260396	21	4 2.4	18.7
139123 2001 FD_{64}	16.5	X	94.88086	60.76969	29.64001	7.95701	0.0777224	0.29337456	2.2431299	21	2 27.2	19.0
139124 2001 FY_{64}	16.0	X	267.75101	47.60358	74.85236	3.87796	0.1422647	0.27295407	2.3536561	21	11 14.4	18.4
139125 2001 FE_{65}	16.1	X	201.42785	108.10703	86.92831	4.74461	0.1379638	0.27165896	2.3611307	21	11 25.7	19.4
139126 2001 FX_{68}	16.1	X	295.23405	38.19172	75.34389	3.21931	0.1482598	0.27512213	2.3412746	21	12 20.7	18.2
139127 2001 FK_{69}	16.1	X	287.62749	25.32509	116.12998	4.11637	0.1182212	0.27689972	2.3312438	21	—	—
139128 2001 FZ_{69}	16.4	X	71.69225	87.46350	49.06576	5.66597	0.1068449	0.29558779	2.2319188	21	3 31.9	18.5
139129 2001 FA_{71}	16.3	X	87.39120	60.92698	77.52333	3.67002	0.1273604	0.29794745	2.2201191	21	5 2.4	18.6
139130 2001 FF_{71}	15.6	X	240.95178	49.74046	129.91890	5.92545	0.1198876	0.27467495	2.3438151	21	12 27.0	18.4
139131 2001 FB_{72}	16.4	X	340.16811	10.90798	125.06353	4.82239	0.1074058	0.28276153	2.2989128	21	—	—
139132 2001 FQ_{72}	16.2	X	305.10131	85.46406	43.43449	5.36682	0.0593466	0.27745677	2.3281225	21	—	—
139133 2001 FR_{74}	15.6	X	263.52702	181.02888	43.49912	7.37340	0.0600226	0.28172738	2.3045352	21	—	—
139134 2001 FJ_{76}	16.1	X	20.83946	337.96443	147.80760	4.92223	0.0973205	0.28717774	2.2752836	21	—	—
139135 2001 FK_{76}	16.0	X	69.86253	190.24342	47.17436	4.73431	0.1298262	0.25744042	2.4472869	21	9 1.6	19.1
139136 2001 FZ_{78}	15.8	X	269.41473	154.40937	96.10434	5.37202	0.1489251	0.23598935	2.5934295	21	1 7.1	19.6
139137 2001 FP_{81}	16.3	X	234.32247	298.50970	263.26738	6.72173	0.0670064	0.27742519	2.3282992	21	—	—
139138 2001 FM_{83}	16.9	X	242.61210	251.95604	348.63269	3.14300	0.1345020	0.28264799	2.2995284	21	—	—
139139 2001 FF_{84}	16.9	X	244.38065	138.46820	140.83139	2.00175	0.1520148	0.23877265	2.5732362	21	1 17.4	20.8
139140 2001 FC_{87}	16.2	X	2.90631	20.02597	116.83556	5.90401	0.0659001	0.28543541	2.2845333	21	—	—
139141 2001 FF_{87}	16.1	X	100.44858	141.99064	98.77072	6.97094	0.1109183	0.26201329	2.4187287	21	10 13.1	19.6
139142 2001 FP_{88}	16.2	X	137.25710	291.65868	28.80154	4.28849	0.0967673	0.27775775	2.3264404	21	—	—
139143 2001 FM_{91}	15.6	X	269.14514	105.71694	187.44373	10.84948	0.3027362	0.23752481	2.5822407	21	2 12.4	20.2
139144 2001 FD_{92}	16.2	X	109.33705	173.18893	87.60111	6.12924	0.2001829	0.26657121	2.3910788	21	11 20.8	20.1
139145 2001 FG_{92}	15.8	X	327.68906	79.07518	32.01905	8.72445	0.1018342	0.28008749	2.3135217	21	—	—
139146 2001 FW_{92}	15.9	X	285.79464	53.72801	115.11566	5.72757	0.0828239	0.28031337	2.3122787	21	—	—
139147 2001 FF_{94}	16.2	X	149.10529	129.94581	53.08909	11.07374	0.0908467	0.26377339	2.4079570	21	9 22.4	19.8
139148 2001 FL_{94}	16.3	X	355.72845	18.68023	73.55207	7.66602	0.0641602	0.28011896	2.3133484	21	—	—
139149 2001 FQ_{94}	15.7	X	48.26738	281.96628	15.21824	25.84062	0.1745500	0.26272411	2.4143641	21	10 22.9	18.9
139150 2001 FN_{95}	16.1	X	23.94744	91.40216	43.58584	8.66389	0.1258970	0.28959559	2.2626016	21	—	—
139151 2001 FO_{98}	15.7	X	310.72619	54.57609	171.32242	15.22332	0.1755358	0.23895548	2.5719235	21	1 14.9	19.6
139152 2001 FA_{99}	15.3	X	339.31684	49.50299	145.67886	13.95072	0.1034559	0.23991484	2.5650626	21	1 24.3	18.6
139153 2001 FW_{101}	15.8	X	238.08677	348.68355	248.54205	5.55199	0.1529220	0.28165340	2.3049387	21	—	—
139154 2001 FB_{105}	16.2	X	243.93840	199.15129	251.75649	4.04642	0.1501406	0.26597831	2.3946308	21	8 23.9	19.7
139155 2001 FO_{105}	16.3	X	252.40399	174.40280	294.53458	5.93625	0.0700655	0.27012603	2.3700550	21	10 10.6	19.4
139156 2001 FP_{106}	16.3	X	13.17020	192.21430	263.54639	4.74931	0.1347250	0.28411233	2.2916203	21	—	—
139157 2001 FS_{107}	16.7	X	229.83063	244.13824	2.30833	5.76448	0.1448471	0.28122161	2.3072974	21	—	—
139158 2001 FE_{108}	16.5	X	110.72813	198.06933	47.83011	1.98930	0.1451106	0.26500377	2.4004980	21	10 30.3	20.1
139159 2001 FM_{109}	16.6	X	146.91327	18.23208	195.56664	7.82752	0.0755203	0.26614441	2.3936344	21	10 25.1	19.8
139160 2001 FX_{111}	16.6	X	124.72696	207.86674	249.72646	3.67610	0.0842388	0.29820825	2.2188245	21	4 17.3	19.2
139161 2001 FW_{112}	16.2	X	84.02157	291.38886	309.93751	6.25791	0.0841288	0.26159607	2.4212998	21	9 13.9	19.4
139162 2001 FU_{113}	16.6	X	150.02842	38.97655	226.15052	1.83477	0.1654480	0.27192244	2.3596052	21	12 30.3	20.4
139163 2001 FW_{113}	16.9	X	113.27041	332.94361	262.91974	0.31081	0.1438594	0.26398296	2.4066824	21	10 19.6	20.5
139164 2001 FL_{114}	16.4	X	28.68283	16.96740	115.76112	4.85521	0.0599073	0.28974449	2.2618263	21	1 6.9	18.5
139165 2001 FC_{115}	16.4	X	112.56871	231.38805	46.12897	7.65903	0.1002451	0.26941485	2.3742240	21	12 8.1	19.9
139166 2001 FH_{118}	16.7	X	41.40103	208.29491	311.21592	4.79474	0.0740687	0.29571557	2.2312758	21	3 5.2	19.0
139167 2001 FQ_{122}	16.2	X	78.17590	83.94050	159.24844	5.91180	0.0613437	0.25995705	2.4314666	21	9 8.2	19.2
139168 2001 FN_{123}	16.4	X	150.70087	76.39465	183.84928	6.14045	0.0930879	0.27169024	2.3609495	21	12 27.1	19.9
139169 2001 FH_{124}	16.3	X	44.69972	319.72091	297.34238	5.50217	0.1150728	0.25702704	2.4499102	21	8 16.4	19.0
139170 2001 FU_{126}	15.5	X	164.50100	208.20996	52.80078	7.13827	0.1467363	0.27302628	2.3532410	21	—	—
139171 2001 FY_{126}	16.8	X	234.77251	137.56250	57.58804	2.95653	0.1640116	0.27518792	2.3409015	21	—	—
139172 2001 FQ_{129}	16.2	X	186.76359	159.94110	68.24405	2.76377	0.1832588	0.27076260	2.3663389	21	12 17.5	19.8
139173 2001 FW_{129}	16.9	X	186.47322	347.38887	193.78806	5.92492	0.1183609	0.26898869	2.3767310	21	10 24.5	20.2
139174 2001 FS_{131}	16.3	X	304.73737	166.84156	272.57605	4.09889	0.1933789	0.27297545	2.3535332	21	11 11.6	18.2
139175 2001 FN_{132}	16.7	X	328.56361	335.01181	126.14352	6.27877	0.0824179	0.27796594	2.3252786	21	—	—
139176 2001 FG_{133}	16.0	X	77.28703	90.55624	167.57401	6.51308	0.1071702	0.26033678	2.4291017	21	10 5.4	19.1
139177 2001 FQ_{137}	16.2	X	119.49790	122.31611	116.04361	3.53809	0.1454973	0.26284153	2.4136450	21	10 30.6	19.9
139178 2001 FR_{137}	16.0	X	177.80194	29.78155	165.45569	3.48259	0.1365658	0.26675484	2.3899813	21	11 1.6	19.7
139179 2001 FT_{137}	16.7	X	201.67390	104.54891	80.63897	3.05201	0.1514939	0.26915403	2.3757576	21	11 11.7	20.3
139180 2001 FU_{137}	16.4	X	314.58314	238.08370	24.67018	28.25072	0.2398316	0.24270583	2.5453602	21	3 15.1	20.2
139181 2001 FB_{138}	16.3	X	97.80389	357.37958	84.27509	4.38575	0.1357441	0.29201200	2.2501022	21	2 26.9	18.6
139182 2001 FC_{138}	15.0	X	275.65367	123.53398	150.58648	10.87847	0.0728424	0.19294709	2.9660415	21	2 26.4	19.1
139183 2001 FY_{140}	17.2	X	6.09902	60.59410	29.14856	6.53484	0.0997799	0.27901710	2.3194348	21	—	—
139184 2001 FU_{143}	15.7	X	22.96816	150.80068	57.74286	8.93078	0.1511965	0.19811051	2.9142784	21	5 4.8	18.9
139185 2001 FH_{144}	15.9	X	134.08158	200.17651	56.65516	6.00758	0.2068636	0.26606412	2.3941159	21	12 5.3	19.8
139186 2001 FR_{144}	16.3	X	139.30855	148.90546	86.21073	3.42844	0.0921643	0.26599357	2.3945393	21	11 13.4	19.6
139187 2001 FE_{147}	16.3	X	86.16212	245.06856	327.08285	7.48472	0.0736405	0.25731946	2.4480538	21	8 8.8	19.4
139188 2001 FO_{149}	16.4	X	8.01769	42.53443	105.08376	3.85366	0.1047398	0.28731272	2.2745709	21	—	—
139189 2001 FW_{149}	16.5	X	87.68658	152.72494	316.11010	5.27053	0.1229635	0.29447877	2.2375190	21	3 15.2	18.9
139190 2001 FM_{151}	14.9	X	238.40230	87.81646	75.65507	11.85471	0.1574865	0.27296399	2.3535990	21	11 26.3	17.8
139191 2001 FG_{152}	16.3	X	80.46785	19.70869	105.50897	5.29944	0.0870329	0.29689137	2.2253808	21	3 27.3	18.6
139192 2001 FC_{153}	16.4	X	121.73252	131.96274	120.30803	2.60281	0.1015627	0.26660373	2.3908843	21	11 17.0	19.8
139193 2001 FV_{156}	16.2	X	298.40404	26.39069	136.13730	9.67925	0.0701441	0.28055866	2.3109308	21	—	—
139194 2001 FB_{157}	16.3	X	156.54818	166.35132	47.23916	6.94014	0.0551546	0.26923641	2.3752730	21	11 4.9	19.4
139195 2001 FT_{158}	16.1	X	74.48889	350.55891	79.24524	4.19296	0.1632305	0.28780788	2.2719613	21	—	—
139196 2001 FJ_{161}	16.2	X	106.53287	315.09997	296.70761	2.21554	0.1475892	0.26248417	2.4158352	21	11 1.4	19.9
139197 2001 FR_{161}	15.8	X	70.96871	121.55297	99.93823	9.76068	0.2161975	0.25442136	2.4666092	21	8 26.1	19.1
139198 2001 FP_{162}	16.2	X	11.49027	329.76250	228.33879	2.31282	0.1492895	0.24447908	2.5330373	21	3 17.1	18.5
139199 2001 FV_{163}	16.7	X	109.72448	44.30664	168.72499	3.75717	0.1292729	0.26171726	2.4205523	21	9 15.1	20.0
139200 2001 FZ_{164}	16.2	X	112.73868	257.64872	339.67975	3.36404	0.0577197	0.26379051	2.4078528	21	10 13.0	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139201 2001 FC_{166}	16.3	X	165.29526	251.18762	16.47538	7.65068	0.1014290	0.27482989	2.3429341	21	—	—
139202 2001 FQ_{166}	16.3	X	190.02358	8.71235	267.17923	5.88233	0.1200007	0.27977125	2.3152648	21	—	—
139203 2001 FE_{167}	15.6	X	148.27468	245.16486	64.10302	5.38226	0.1356350	0.27523342	2.3406435	21	—	—
139204 2001 FQ_{169}	14.8	X	286.86749	113.85909	118.02642	14.17322	0.2408316	0.23512387	2.5997898	21	—	—
139205 2001 FA_{175}	16.0	X	58.75264	187.50745	91.62824	7.01952	0.1295375	0.26223597	2.4173593	21	10 15.9	19.1
139206 2001 FE_{176}	16.2	X	292.21744	49.14678	98.62202	7.26359	0.1316642	0.27888729	2.3201545	21	—	—
139207 2001 FW_{179}	16.1	X	241.76593	204.27030	69.76450	7.71023	0.0467234	0.28731392	2.2745646	21	1 3.1	19.1
139208 2001 FW_{191}	17.0	X	38.31090	83.43614	194.87251	1.11612	0.1709686	0.25847821	2.4407320	21	9 16.8	19.5
139209 2001 FB_{195}	16.5	X	222.67976	35.41479	181.90441	6.37108	0.0575584	0.27593896	2.3366520	21	—	—
139210 2001 GJ	17.0	X	253.29651	20.21803	189.96954	4.45183	0.1793164	0.27797890	2.3252063	21	—	—
139211 2001 GN_{2}	18.0	X	0.48714	3.36506	173.55691	26.06946	0.4522910	0.38869527	1.8595015	21	—	—
139212 2001 GE_{3}	15.1	X	203.99226	218.27472	73.69761	31.28166	0.2604793	0.23040647	2.6351556	21	—	—
139213 2001 GH_{7}	15.5	X	213.58502	194.51756	74.20281	15.31244	0.2399238	0.22945771	2.6424145	21	—	—
139214 2001 GS_{7}	15.2	X	218.18518	238.95932	51.09404	13.19378	0.3044514	0.23150221	2.6268339	21	1 9.9	20.2
139215 2001 GQ_{9}	16.1	X	242.80943	78.54228	113.52852	8.14409	0.1512506	0.27464275	2.3439983	21	—	—
139216 2001 GB_{10}	16.0	X	266.38612	95.98412	190.57450	11.37351	0.2514792	0.23899127	2.5716667	21	2 5.6	20.4
139217 2001 GW_{10}	15.9	X	98.47566	277.37906	24.82589	5.39111	0.1298171	0.26868347	2.3785307	21	12 27.1	19.5
139218 2001 GP_{11}	16.2	X	165.32220	93.72571	150.00846	4.72328	0.0950717	0.26946772	2.3739135	21	12 21.8	19.7
139219 2001 HF	15.4	X	237.89235	253.53282	10.08803	12.02963	0.1615116	0.23262803	2.6183519	21	—	—
139220 2001 HA_{1}	15.8	X	251.26509	331.93047	270.06404	4.13515	0.1856412	0.23238093	2.6202077	21	—	—
139221 2001 HL_{1}	16.6	X	102.77841	195.72199	40.49212	3.32137	0.1565355	0.26043921	2.4284648	21	10 10.9	20.2
139222 2001 HL_{4}	15.8	X	114.34542	188.56072	76.69822	6.22470	0.0974959	0.26374621	2.4081224	21	11 24.8	19.2
139223 2001 HB_{5}	16.4	X	273.49882	324.76928	260.77000	5.51050	0.1808085	0.28178588	2.3042163	21	—	—
139224 2001 HN_{5}	15.8	X	230.32215	150.19035	45.36260	6.69322	0.1751214	0.27208018	2.3586932	21	12 24.6	18.8
139225 2001 HE_{6}	15.5	X	357.40034	298.06934	285.46429	3.73085	0.2038669	0.24427580	2.5344423	21	3 19.4	17.8
139226 2001 HF_{6}	15.8	X	316.35917	330.93154	277.89828	3.12426	0.2184722	0.24071567	2.5593704	21	2 14.0	19.3
139227 2001 HC_{7}	16.1	X	150.41868	110.85871	176.62565	5.04412	0.2278749	0.22159126	2.7045871	21	—	—
139228 2001 HM_{11}	16.3	X	107.83095	54.59381	220.67900	1.54232	0.1630248	0.26510451	2.3998898	21	12 4.2	19.9
139229 2001 HU_{13}	16.2	X	159.85208	268.23799	42.96509	5.89829	0.1036792	0.27713567	2.3299205	21	—	—
139230 2001 HR_{16}	16.3	X	76.56684	7.78966	202.14544	6.08771	0.0869712	0.25271066	2.4777283	21	7 22.5	19.6
139231 2001 HW_{16}	16.5	X	189.13268	190.44677	59.38971	3.70567	0.1513406	0.27396196	2.3478799	21	—	—
139232 2001 HO_{17}	16.4	X	214.32050	327.12219	210.07539	5.81707	0.0401721	0.26855237	2.3793047	21	11 29.5	19.5
139233 2001 HT_{18}	16.2	X	226.74050	79.48608	192.88836	10.76566	0.1654972	0.23026113	2.6362643	21	—	—
139234 2001 HT_{19}	15.9	X	128.88336	351.11582	214.34590	7.02175	0.0763391	0.25964733	2.4333999	21	9 19.9	19.4
139235 2001 HY_{20}	16.3	X	59.12770	242.87233	25.59067	3.59215	0.1568945	0.25782575	2.4448480	21	10 2.4	19.4
139236 2001 HZ_{20}	17.0	X	8.17361	62.55187	201.48010	4.32975	0.1628050	0.29920293	2.2139042	21	6 21.0	18.5
139237 2001 HH_{22}	16.4	X	169.91124	77.12126	112.30507	1.79260	0.1545588	0.26512180	2.3997855	21	10 16.5	20.0
139238 2001 HP_{22}	15.7	X	154.39646	193.32930	13.07612	2.69412	0.1355127	0.26340130	2.4102242	21	10 21.9	19.5
139239 2001 HL_{23}	17.0	X	20.32089	120.88640	154.88312	1.16176	0.2053590	0.25424705	2.4677364	21	8 14.2	18.8
139240 2001 HQ_{27}	16.3	X	140.71924	213.46500	48.94106	3.67960	0.1575646	0.26711791	2.3878152	21	12 18.1	20.1
139241 2001 HT_{27}	16.3	X	176.48105	190.17329	50.08805	5.99852	0.1629802	0.26970347	2.3725299	21	12 23.9	19.9
139242 2001 HA_{29}	15.4	X	164.18577	7.70042	242.31355	9.37780	0.2291198	0.21910681	2.7249935	21	12 14.9	20.1
139243 2001 HH_{29}	16.2	X	126.69760	340.53236	245.40036	1.68042	0.1315668	0.26159068	2.4213331	21	10 19.1	19.9
139244 2001 HM_{30}	16.8	X	300.19870	335.83159	234.97722	5.45337	0.1220129	0.28378569	2.2933784	21	—	—
139245 2001 HS_{30}	15.9	X	10.37491	85.59147	131.24913	5.72268	0.1248495	0.24446605	2.5331273	21	4 17.6	18.5
139246 2001 HQ_{32}	16.3	X	120.31331	226.13971	34.18618	7.67242	0.0819341	0.26613047	2.3937180	21	11 22.8	19.6
139247 2001 HU_{32}	16.2	X	92.71549	59.89448	212.57496	7.58759	0.0779498	0.26302943	2.4124953	21	11 8.1	19.4
139248 2001 HA_{33}	16.1	X	298.37034	347.92555	223.21964	4.80421	0.1338979	0.23505006	2.6003341	21	—	—
139249 2001 HR_{33}	16.0	X	99.69613	134.76574	72.55246	2.74933	0.0616083	0.25583441	2.4575182	21	8 18.8	19.2
139250 2001 HJ_{36}	16.4	X	161.56691	160.90464	87.67893	2.47263	0.1438944	0.26817594	2.3815307	21	12 21.0	20.1
139251 2001 HU_{38}	16.8	X	184.58030	342.10985	41.82689	2.07715	0.1928144	0.29162468	2.2520941	21	3 28.4	20.2
139252 2001 HY_{38}	16.5	X	264.03700	305.05565	212.02339	6.54052	0.0629957	0.27300529	2.3533616	21	—	—
139253 2001 HR_{39}	16.0	X	1.46491	305.14826	46.34301	6.62050	0.1254245	0.26114179	2.4241071	21	10 24.9	18.3
139254 2001 HG_{40}	16.0	X	322.71704	31.32949	235.42670	3.78478	0.0253696	0.24599677	2.5226081	21	4 17.0	19.0
139255 2001 HP_{44}	16.7	X	340.92058	130.89214	26.94287	4.76932	0.1233060	0.28399469	2.2922531	21	—	—
139256 2001 HE_{46}	16.2	X	307.29599	77.33319	192.93482	17.06094	0.1928192	0.24271572	2.5452910	21	3 4.2	19.9
139257 2001 HV_{46}	16.0	X	114.17167	195.44133	38.82233	8.73351	0.1458097	0.26097117	2.4251635	21	10 19.6	19.6
139258 2001 HH_{47}	15.8	X	90.69258	267.32361	89.23051	5.73434	0.1574616	0.27230024	2.3574222	21	—	—
139259 2001 HR_{47}	16.2	X	199.79660	326.64892	260.54469	5.29291	0.1581594	0.27241067	2.3567850	21	12 31.9	19.7
139260 2001 HL_{49}	15.9	X	169.19353	355.89319	242.46628	9.36215	0.0885032	0.26929224	2.3749446	21	12 19.2	19.3
139261 2001 HQ_{51}	16.8	X	285.26275	154.85543	60.15163	2.37819	0.0555172	0.28252078	2.3002186	21	—	—
139262 2001 HC_{52}	16.6	X	308.29005	218.03162	298.48122	3.28599	0.0950679	0.28035900	2.3120278	21	—	—
139263 2001 HH_{54}	15.3	X	203.71464	121.30846	147.99307	12.02256	0.1792579	0.22776661	2.6554778	21	—	—
139264 2001 HN_{54}	15.9	X	199.24489	11.29377	140.33905	4.51753	0.1868553	0.26453614	2.4033261	21	9 25.1	19.6
139265 2001 HV_{54}	16.5	X	261.14964	18.75724	177.44762	5.96382	0.1485249	0.27724931	2.3292837	21	—	—
139266 2001 HB_{56}	16.1	X	150.81344	156.57122	80.27388	12.90808	0.1369596	0.26565553	2.3965701	21	11 27.5	19.8
139267 2001 HV_{56}	16.4	X	319.99300	76.92984	55.96722	3.76782	0.1667116	0.27838087	2.3229674	21	—	—
139268 2001 HZ_{56}	16.5	X	351.79696	336.69146	309.76590	3.10411	0.1887966	0.29818940	2.2189180	21	6 18.1	17.7
139269 2001 HW_{59}	16.6	X	303.91178	91.04975	57.74012	5.42689	0.1218696	0.27796607	2.3252779	21	—	—
139270 2001 HU_{61}	15.8	X	185.63534	93.83077	202.25749	12.03420	0.2738036	0.22668618	2.6639088	21	—	—
139271 2001 HM_{63}	16.5	X	222.87366	336.40303	264.79464	4.42772	0.1386050	0.27602850	2.3361466	21	—	—
139272 2001 HO_{63}	15.8	X	41.16519	33.59169	267.52276	5.63894	0.1396277	0.25798108	2.4438665	21	10 16.1	18.7
139273 2001 HQ_{63}	16.1	X	80.91153	173.39060	24.35867	5.62065	0.0236465	0.25198011	2.4825150	21	7 3.3	19.3
139274 2001 HV_{63}	16.0	X	315.14742	215.36860	16.83026	8.90960	0.1441749	0.24015425	2.5633576	21	2 6.9	19.5
139275 2001 HR_{64}	16.4	X	142.76459	146.49686	27.71366	2.93587	0.1344059	0.25792156	2.4442424	21	8 31.3	20.1
139276 2001 HY_{64}	16.3	X	251.27114	172.32253	355.98598	2.38029	0.1635378	0.27376191	2.3490235	21	12 19.2	19.0
139277 2001 JJ	17.3	X	316.85741	143.51771	54.48430	1.87106	0.1559263	0.28483380	2.2877490	21	—	—
139278 2001 JN_{2}	15.8	X	306.13471	200.75060	89.80441	12.83020	0.2461092	0.24156857	2.5533426	21	3 31.9	19.5
139279 2001 JM_{4}	16.1	X	283.20266	121.76718	143.62511	8.90700	0.2357018	0.23707419	2.5855118	21	1 29.5	20.1
139280 2001 JO_{5}	16.3	X	185.92466	39.99027	166.20058	2.43334	0.1560279	0.26775368	2.3840339	21	11 21.8	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139281 2001 JQ_5	16.4	X	320.27801	82.44099	85.16135	5.88053	0.0766380	0.28190702	2.3035561	21	—	—
139282 2001 JT_5	16.8	X	144.22441	133.28160	110.49993	2.64314	0.1521458	0.26588946	2.3951642	21	11 28.9	20.6
139283 2001 JZ_5	16.4	X	180.07807	334.91869	276.93455	2.29577	0.1971856	0.27197741	2.3592873	21	—	—
139284 2001 JM_6	15.6	X	163.58536	232.34951	329.04204	5.18835	0.1683271	0.26443247	2.4039542	21	10 22.0	19.6
139285 2001 JJ_7	16.0	X	217.73908	170.18664	111.31179	5.45883	0.1424710	0.23119283	2.6291769	21	—	—
139286 2001 JE_8	15.6	X	215.71905	257.73822	62.41966	10.08538	0.2161394	0.23389159	2.6089133	21	2 14.2	20.2
139287 2001 JT_8	16.1	X	174.50307	264.89271	304.46809	4.52483	0.1724833	0.26790392	2.3831425	21	11 11.8	20.0
139288 2001 JT_{10}	15.7	X	179.30912	146.21746	135.35850	14.37944	0.2453838	0.22353627	2.6888756	21	—	—
139289 2001 KR_1	17.6	X	31.48602	291.42658	102.76445	23.25282	0.8411597	0.69717164	1.2596297	21	—	—
139290 2001 KC_2	16.1	X	163.82185	239.06134	5.27929	1.32379	0.3054729	0.21849155	2.7301067	21	12 6.2	21.1
139291 2001 KL_3	15.2	X	88.16702	313.03611	49.28376	6.97038	0.1243223	0.27246245	2.3564864	21	—	—
139292 2001 KS_3	15.7	X	243.92278	31.40928	229.38580	11.92944	0.1354654	0.23159320	2.6261459	21	—	—
139293 2001 KF_4	16.4	X	242.54022	69.73950	226.10013	5.56035	0.1329336	0.28396861	2.2923935	21	1 28.0	19.9
139294 2001 KM_5	15.9	X	301.67973	237.24356	72.51165	4.35484	0.2723961	0.24252391	2.5466329	21	4 11.1	19.3
139295 2001 KK_6	15.9	X	226.87371	236.54773	81.81534	4.29234	0.2339029	0.23386331	2.6091236	21	2 18.0	20.4
139296 2001 KD_7	15.3	X	326.54452	9.62717	237.86694	12.10664	0.1521499	0.24060502	2.5601550	21	3 3.9	18.8
139297 2001 KH_8	16.5	X	160.24368	181.76063	79.68072	6.24128	0.2049790	0.26877215	2.3780074	21	—	—
139298 2001 KG_{12}	16.2	X	224.69494	104.66448	100.35313	6.24545	0.1732651	0.27170027	2.3608913	21	12 30.3	19.3
139299 2001 KH_{12}	15.7	X	72.55952	15.35830	204.81879	6.31492	0.1545369	0.25213075	2.4815261	21	8 10.7	19.0
139300 2001 KC_{13}	15.7	X	233.95726	255.10657	82.18774	11.75870	0.2650105	0.23603233	2.5931147	21	3 20.8	20.5
139301 2001 KN_{14}	15.7	X	342.45730	120.64851	94.28447	5.88461	0.1241540	0.24080947	2.5587057	21	2 24.8	18.8
139302 2001 KV_{14}	16.6	X	129.45087	93.69293	151.96577	3.45559	0.1698446	0.26362785	2.4088431	21	11 18.4	20.5
139303 2001 KA_{15}	16.6	X	218.18709	48.78164	166.21998	5.11804	0.1748469	0.27268927	2.3551795	21	—	—
139304 2001 KR_{17}	16.9	X	143.03123	28.53276	223.98231	8.01650	0.1892304	0.26601989	2.3943813	21	12 8.1	20.9
139305 2001 KS_{17}	15.6	X	165.56090	55.60275	168.89816	11.59290	0.1280931	0.26636882	2.3922898	21	11 27.7	19.4
139306 2001 KV_{17}	15.8	X	76.54690	139.03931	97.63882	9.84066	0.1387902	0.25546240	2.4599034	21	9 13.1	19.3
139307 2001 KD_{19}	16.0	X	175.57032	34.87141	128.31422	3.79628	0.1382230	0.26113912	2.4241236	21	9 19.2	19.7
139308 2001 KH_{20}	16.0	X	133.42328	151.36942	166.16998	7.15028	0.1310019	0.27479138	2.3431530	21	—	—
139309 2001 KH_{22}	16.0	X	326.82838	346.62776	248.68073	3.35739	0.1851548	0.24025272	2.5626572	21	2 15.1	19.1
139310 2001 KQ_{22}	16.1	X	24.28489	265.41025	56.59814	7.07057	0.1680052	0.25683423	2.4511362	21	10 27.9	18.7
139311 2001 KJ_{23}	16.7	X	149.23964	216.68833	6.52235	1.86061	0.1507213	0.26395522	2.4068511	21	11 7.0	20.4
139312 2001 KO_{23}	16.3	X	157.61142	208.27657	47.48140	7.39517	0.0906355	0.26794641	2.3828905	21	12 28.6	19.8
139313 2001 KD_{25}	15.8	X	158.19065	169.16124	27.43665	5.30617	0.1235932	0.26238426	2.4164484	21	10 14.0	19.2
139314 2001 KK_{25}	16.6	X	323.97266	209.66399	49.15963	3.34224	0.1899749	0.24191646	2.5508941	21	3 16.8	19.7
139315 2001 KL_{25}	16.3	X	147.78559	264.05637	343.96720	3.37191	0.1650178	0.26616646	2.3935022	21	12 6.3	20.1
139316 2001 KN_{25}	16.3	X	272.40171	39.50215	235.10152	3.81763	0.1924200	0.23622191	2.5917271	21	2 2.8	20.5
139317 2001 KY_{25}	15.2	X	199.48641	85.01530	256.82406	9.70028	0.2731714	0.23257747	2.6187314	21	2 19.6	20.1
139318 2001 KD_{26}	16.0	X	335.70735	238.27766	27.56041	5.00497	0.2130245	0.24366764	2.5386577	21	4 10.0	18.5
139319 2001 KL_{26}	16.4	X	150.19425	189.53288	68.08923	2.32875	0.1568738	0.26675847	2.3899597	21	12 20.9	20.2
139320 2001 KL_{29}	16.3	X	213.48362	307.01242	259.61655	3.87889	0.1828104	0.27201942	2.3590444	21	12 18.0	19.6
139321 2001 KA_{31}	16.4	X	166.00957	110.05203	129.77001	2.06123	0.1509735	0.26697385	2.3886741	21	12 14.1	19.9
139322 2001 KC_{32}	16.3	X	59.50578	71.65259	185.74830	1.82782	0.1768102	0.25398874	2.4694093	21	9 19.6	19.4
139323 2001 KD_{32}	15.5	X	232.42733	180.25808	143.59434	14.73338	0.2523119	0.23456781	2.6038968	21	2 27.5	20.0
139324 2001 KO_{32}	16.2	X	170.47021	26.67103	198.38136	4.25006	0.1496570	0.26689433	2.3891485	21	11 30.5	19.9
139325 2001 KT_{32}	17.1	X	265.49173	202.26097	95.07713	4.80141	0.2296819	0.28625000	2.2801971	21	2 18.0	20.7
139326 2001 KQ_{34}	16.4	X	267.46282	182.86728	109.60525	3.90427	0.1726095	0.23735176	2.5834957	21	2 24.0	20.4
139327 2001 KY_{35}	16.5	X	62.83298	57.58910	214.71562	6.04894	0.1704058	0.25609832	2.4558296	21	10 12.8	19.8
139328 2001 KO_{36}	15.6	X	169.04830	93.66491	229.80244	14.24219	0.2310765	0.22654935	2.6649813	21	1 7.3	20.2
139329 2001 KF_{37}	15.2	X	140.23676	249.99530	91.90187	10.20873	0.3212089	0.22234651	2.6984591	21	1 16.5	19.5
139330 2001 KW_{38}	15.3	X	209.31732	212.42261	102.34648	8.28069	0.3273872	0.22919778	2.6444119	21	2 1.5	20.3
139331 2001 KW_{44}	15.7	X	176.11240	46.64001	141.34137	8.76021	0.1555557	0.26308118	2.4121790	21	10 22.9	19.6
139332 2001 KH_{46}	15.7	X	252.48269	128.29667	215.66179	12.98791	0.1331661	0.24160073	2.5531160	21	4 15.4	19.6
139333 2001 KD_{47}	15.5	X	156.40464	225.34026	87.13895	14.01760	0.1670659	0.22455450	2.6807411	21	—	—
139334 2001 KJ_{50}	16.1	X	285.98013	136.43754	152.56664	8.34012	0.2584309	0.23917336	2.5703613	21	2 27.9	20.0
139335 2001 KJ_{52}	15.0	X	195.83867	90.69030	241.64332	11.47752	0.2576499	0.22713250	2.6604179	21	2 6.3	19.9
139336 2001 KE_{53}	16.3	X	13.90565	98.62267	188.76725	5.59910	0.1097892	0.25242818	2.4795764	21	8 6.1	18.9
139337 2001 KF_{53}	16.5	X	289.47016	310.24194	215.43407	5.98079	0.0519308	0.27530496	2.3402380	21	—	—
139338 2001 KV_{53}	15.5	X	226.14632	135.17294	149.50302	16.85164	0.2266967	0.23106503	2.6301463	21	1 8.1	20.2
139339 2001 KA_{57}	15.6	X	249.76669	109.12302	189.15004	13.33264	0.1922202	0.23624338	2.5915700	21	2 9.4	20.0
139340 2001 KB_{58}	15.9	X	230.49993	200.42365	100.23936	8.74390	0.1857655	0.23359578	2.6111153	21	1 31.7	20.2
139341 2001 KQ_{58}	16.1	X	210.07905	106.78269	205.74541	11.89194	0.2888816	0.22966040	2.6408595	21	1 26.0	21.1
139342 2001 KF_{60}	16.1	X	114.78491	178.18380	86.85667	5.49309	0.0766335	0.26502447	2.4003730	21	11 24.2	19.4
139343 2001 KC_{62}	16.1	X	41.37990	212.89844	85.13821	6.81604	0.0854622	0.25801500	2.4436523	21	10 9.9	19.1
139344 2001 KH_{66}	15.8	X	218.59336	325.37820	195.47594	22.34832	0.1227990	0.26779619	2.3837815	21	11 3.2	19.2
139345 2001 KA_{67}	16.7	X	125.75784	37.77541	108.54191	22.34913	0.7021231	0.40631445	1.8053491	21	8 10.7	21.0
139346 2001 KO_{70}	16.0	X	237.23660	93.01420	214.34267	10.90362	0.1741623	0.23427814	2.6060427	21	2 9.7	20.5
139347 2001 KM_{71}	16.2	X	290.73609	212.71562	75.80660	11.19528	0.1495719	0.24139951	2.5545346	21	3 23.4	19.9
139348 2001 KU_{73}	16.4	X	282.86792	164.94745	127.73321	4.96860	0.2419590	0.23979799	2.5658959	21	3 4.0	20.4
139349 2001 KL_{74}	16.4	X	146.41235	192.65833	43.76262	2.56797	0.1326280	0.26448536	2.4036337	21	11 21.2	20.2
139350 2001 KM_{75}	15.7	X	254.28062	119.82880	147.46499	13.86804	0.1724558	0.23291437	2.6162055	21	1 11.5	20.1
139351 2001 LJ_6	15.3	X	68.56452	132.46130	196.75379	6.52003	0.2513760	0.20984231	2.8046199	21	12 31.3	19.9
139352 2001 LY_7	15.0	X	67.36526	241.25869	285.54092	20.94768	0.0356879	0.23847559	2.5753728	21	4 25.4	18.9
139353 2001 LW_{11}	15.3	X	220.52608	68.45039	243.18859	10.78880	0.1888416	0.22823231	2.6518643	21	2 1.0	20.0
139354 2001 LD_{12}	15.3	X	226.22420	66.28541	255.50118	10.23248	0.2027974	0.23040797	2.6351442	21	2 16.3	19.9
139355 2001 LA_{13}	15.4	X	128.81980	178.13407	131.36233	18.83475	0.2695185	0.21548726	2.7554233	21	—	—
139356 2001 LL_{14}	15.7	X	296.67738	133.95818	151.03650	4.82536	0.2088900	0.23918776	2.5702582	21	3 12.3	19.3
139357 2001 LY_{15}	16.5	X	244.35543	337.95841	205.49603	9.60156	0.1309619	0.27118727	2.3638678	21	—	—
139358 2001 LJ_{18}	15.6	X	194.30047	115.17173	163.06808	14.86447	0.1038252	0.22570800	2.6715999	21	—	—
139359 2001 ME_1	16.4	X	222.12393	302.28893	84.63498	5.95131	0.8699487	0.23058652	2.6337837	21	4 22.6	23.0
139360 2001 MU_2	15.3	X	214.79909	228.35191	38.19713	6.86025	0.2443917	0.22455861	2.6807084	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139361 2001 MV_2	15.5	X	320.45814	255.48609	20.09441	5.95844	0.1877637	0.23944259	2.5684342	21	4 3.2	18.6
139362 2001 MZ_4	15.5	X	95.49234	337.77810	325.92388	10.21005	0.2279690	0.21166224	2.7885202	21	12 24.2	20.2
139363 2001 ME_8	15.5	X	160.19135	53.15461	216.55128	8.56813	0.1089360	0.21642353	2.7474707	21	—	—
139364 2001 MO_8	15.8	X	164.49018	5.41198	274.02183	6.44431	0.2799693	0.21896696	2.7261536	21	—	—
139365 2001 MX_8	15.8	X	155.17546	271.94906	61.85603	7.90465	0.1573401	0.22255610	2.6967646	21	1 4.2	19.9
139366 2001 MP_{10}	15.9	X	147.21693	268.41612	60.83314	3.54836	0.1856534	0.22054561	2.7131289	21	—	—
139367 2001 ME_{12}	15.0	X	216.09971	43.71105	325.67768	8.17733	0.1339802	0.23503329	2.6004577	21	4 8.2	19.2
139368 2001 MH_{12}	15.6	X	275.15826	249.09372	45.51383	2.58602	0.1593353	0.23477418	2.6023707	21	3 8.0	19.3
139369 2001 MY_{13}	16.6	X	293.50458	95.22258	161.22515	3.64890	0.1380755	0.23327285	2.6135246	21	2 9.5	20.3
139370 2001 MJ_{14}	15.5	X	163.30225	17.45121	296.12879	3.99624	0.1512442	0.21969943	2.7200910	21	—	—
139371 2001 MH_{16}	15.9	X	229.02377	259.89195	37.22766	2.93030	0.1338874	0.22863800	2.6487265	21	1 27.8	20.0
139372 2001 MD_{17}	15.4	X	320.25809	219.62020	71.61091	5.69286	0.2203773	0.24026414	2.5625759	21	4 20.9	18.3
139373 2001 MA_{18}	15.0	X	215.90749	16.66136	281.47378	11.03445	0.1774777	0.22591786	2.6699452	21	1 15.8	19.6
139374 2001 MW_{18}	15.0	X	131.87596	100.43017	226.96023	7.99343	0.1764005	0.21625892	2.7488647	21	—	—
139375 2001 MY_{19}	15.7	X	250.19552	359.50403	339.09876	5.93414	0.1293926	0.23665582	2.5885581	21	4 5.6	19.7
139376 2001 MN_{20}	15.8	X	163.95928	207.95371	93.46187	15.76891	0.2063523	0.22044206	2.7139786	21	—	—
139377 2001 MW_{20}	15.4	X	239.96903	16.19290	339.16025	8.82253	0.0963352	0.23703651	2.5857858	21	4 17.0	19.3
139378 2001 MH_{21}	15.3	X	144.45654	32.64207	335.01410	12.63407	0.1717756	0.22447305	2.6813895	21	2 6.2	19.3
139379 2001 MZ_{22}	16.3	X	313.08561	276.94230	84.93665	2.60166	0.1660672	0.24732407	2.5135747	21	7 30.4	18.8
139380 2001 MT_{23}	15.0	X	180.55247	321.84349	313.30370	13.37773	0.1931986	0.21805437	2.7337546	21	—	—
139381 2001 MC_{24}	15.6	X	227.53653	80.69178	204.48237	11.98444	0.1879713	0.22486474	2.6782749	21	1 9.2	20.3
139382 2001 MP_{26}	16.4	X	337.33046	17.10771	227.48616	4.92968	0.2213303	0.28888035	2.2663347	21	2 27.4	18.7
139383 2001 MA_{27}	15.3	X	0.44961	111.54135	116.27151	17.11625	0.1445995	0.24355499	2.5394404	21	4 20.3	18.3
139384 2001 MQ_{27}	15.6	X	122.20085	97.61860	238.66685	11.80450	0.2206945	0.21703723	2.7422890	21	—	—
139385 2001 MT_{28}	14.8	X	155.13595	174.10469	180.51870	5.35508	0.1732700	0.17482534	3.1676204	21	2 4.9	20.0
139386 2001 NP_1	15.7	X	169.01420	119.89105	214.52309	12.57563	0.1510600	0.22363909	2.6880514	21	1 14.5	20.2
139387 2001 NH_3	15.6	X	85.69859	199.85306	126.04149	7.58820	0.0734837	0.21256525	2.7806172	21	12 27.5	19.6
139388 2001 NQ_4	15.8	X	352.67319	119.25819	139.37643	1.93365	0.1063221	0.24138620	2.5546285	21	5 16.0	18.4
139389 2001 NQ_7	15.9	X	160.60021	225.64742	60.46883	6.24657	0.1684692	0.21824284	2.7321804	21	—	—
139390 2001 NU_7	15.2	X	95.11216	117.09086	314.00762	14.01113	0.0837417	0.22720291	2.6598682	21	2 10.1	18.6
139391 2001 NF_9	15.7	X	308.54619	57.76516	253.92661	7.51138	0.0672053	0.24139339	2.5545778	21	5 24.1	18.9
139392 2001 NB_{10}	16.1	X	136.52103	356.62022	23.76704	3.48086	0.1499655	0.22456557	2.6806530	21	2 10.0	19.9
139393 2001 ND_{11}	16.1	X	282.30550	102.66326	199.82525	3.00815	0.1975513	0.23618913	2.5919669	21	3 19.1	19.8
139394 2001 NU_{12}	15.5	X	137.23193	56.11744	292.45769	4.94026	0.0448968	0.22236045	2.6983463	21	—	—
139395 2001 NB_{17}	15.6	X	44.63225	303.04378	71.30488	7.26116	0.1752287	0.21083338	2.7958239	21	—	—
139396 2001 NJ_{17}	15.6	X	236.55517	303.35020	7.48403	9.66342	0.0933944	0.23102535	2.6304474	21	2 24.1	19.6
139397 2001 NS_{17}	16.0	X	179.07862	239.68865	85.56392	4.80064	0.1713895	0.22420711	2.6835094	21	1 17.6	20.2
139398 2001 NF_{18}	15.6	X	242.06122	155.42239	133.39288	14.44490	0.2486047	0.23011750	2.6373612	21	1 24.2	20.3
139399 2001 NH_{19}	15.8	X	191.07995	176.79752	108.74158	12.24471	0.1636044	0.22174602	2.7033285	21	—	—
139400 2001 NL_{20}	14.4	X	97.78205	213.61071	220.36982	15.47078	0.2087779	0.22327526	2.6909708	21	3 5.1	18.2
139401 2001 NT_{20}	15.5	X	311.69384	281.14534	315.39285	13.66365	0.0606952	0.22777440	2.6554172	21	2 16.9	19.0
139402 2001 NF_{22}	15.6	X	98.24119	182.83308	140.38997	7.75759	0.2009212	0.21048856	2.7988764	21	—	—
139403 2001 OG_1	15.7	X	130.29175	250.53297	70.09270	10.63094	0.1135729	0.21698468	2.7427317	21	—	—
139404 2001 OE_2	15.3	X	254.61412	15.58719	260.62057	11.80906	0.1272782	0.22835122	2.6509436	21	1 23.3	19.6
139405 2001 OG_2	15.3	X	262.87398	64.97634	197.22085	11.47564	0.1799264	0.22868844	2.6483369	21	1 11.8	19.8
139406 2001 OD_4	14.6	X	91.82332	37.35528	339.09886	9.91126	0.0843752	0.21817364	2.7327581	21	—	—
139407 2001 OX_9	15.5	X	205.34578	208.48586	113.16947	15.86266	0.1300340	0.22829498	2.6513789	21	2 4.6	19.8
139408 2001 OU_{11}	15.5	X	148.12182	189.03634	108.05300	10.74403	0.1812232	0.21735437	2.7396208	21	—	—
139409 2001 OC_{13}	14.9	X	132.85836	17.55058	313.23403	12.71332	0.1953414	0.21811178	2.7332748	21	—	—
139410 2001 OR_{14}	15.1	X	95.46896	51.98519	312.66039	11.86094	0.2454898	0.21473421	2.7618615	21	—	—
139411 2001 OD_{15}	16.0	X	74.31954	298.60571	24.60958	6.67224	0.1523854	0.25909865	2.4368340	21	12 29.1	19.7
139412 2001 OX_{15}	15.6	X	40.98128	313.56261	50.66134	7.14826	0.0752285	0.21003755	2.8028816	21	12 20.9	19.5
139413 2001 OH_{16}	15.4	X	117.19539	284.51899	34.72895	10.88963	0.3059229	0.21334012	2.7738801	21	—	—
139414 2001 OR_{16}	15.7	X	132.42130	150.76181	134.55584	9.83926	0.1361133	0.21389500	2.7690808	21	12 29.9	20.2
139415 2001 OH_{18}	14.9	X	166.29095	74.06108	281.76200	12.09098	0.1424746	0.22599581	2.6693312	21	2 4.9	19.2
139416 2001 OL_{18}	15.7	X	148.53464	170.56591	142.51238	10.21050	0.2114073	0.21893779	2.7263957	21	—	—
139417 2001 ON_{18}	16.4	X	344.67291	103.68126	175.18054	4.73549	0.1600318	0.24268516	2.5455047	21	5 26.7	18.8
139418 2001 OM_{20}	15.9	X	123.36791	22.65174	252.13472	12.76675	0.2576289	0.21077652	2.7963266	21	12 12.8	20.7
139419 2001 OR_{20}	15.1	X	173.26472	60.22762	249.23422	12.77023	0.1917504	0.21949852	2.7217505	21	—	—
139420 2001 OF_{26}	15.5	X	276.97879	89.42899	173.52278	15.17078	0.0913759	0.23548277	2.5971475	21	2 2.5	19.5
139421 2001 OA_{27}	15.3	X	186.18932	54.12033	319.50197	10.98661	0.1861672	0.23114887	2.6295102	21	3 17.2	19.7
139422 2001 OJ_{28}	15.9	X	208.82598	334.47013	65.09708	4.99727	0.2360302	0.23536565	2.5980090	21	5 10.9	20.3
139423 2001 OQ_{32}	15.2	X	283.34405	277.79905	77.16765	7.82653	0.2028593	0.24205697	2.5499069	21	5 27.8	18.5
139424 2001 OU_{33}	15.6	X	167.58239	25.95743	45.54895	6.08101	0.1795496	0.23460531	2.6036194	21	5 14.7	19.9
139425 2001 OE_{34}	16.3	X	1.79036	201.55077	23.75630	4.88102	0.1847129	0.23848733	2.5752883	21	4 7.1	18.4
139426 2001 OM_{34}	15.2	X	192.95619	333.23489	355.02437	14.37923	0.1232235	0.22615618	2.6680691	21	2 4.5	19.5
139427 2001 OW_{35}	15.6	X	165.20449	24.65070	344.71728	10.94052	0.1278270	0.22655932	2.6649031	21	2 23.7	19.7
139428 2001 OO_{38}	15.1	X	164.01256	54.64802	26.11590	12.68837	0.2557932	0.23417650	2.6067968	21	5 23.7	19.8
139429 2001 OH_{40}	15.9	X	230.13796	316.37940	111.24087	13.97073	0.2343510	0.23879250	2.5730936	21	7 2.3	20.2
139430 2001 OA_{45}	15.2	X	283.23658	152.20038	149.80485	14.36240	0.1543797	0.23570547	2.5955114	21	3 29.0	19.0
139431 2001 OM_{45}	15.5	X	153.90893	149.56860	157.77969	17.74972	0.1567107	0.21790449	2.7350080	21	—	—
139432 2001 OS_{45}	15.4	X	112.63215	224.56875	102.03385	7.82030	0.2506818	0.21459235	2.7630785	21	—	—
139433 2001 ON_{47}	15.6	X	270.33101	165.48468	140.15880	9.52821	0.1288890	0.23345283	2.6121812	21	3 21.8	19.4
139434 2001 OL_{48}	15.1	X	166.72414	153.79528	261.47930	13.37490	0.0922039	0.23197159	2.6232893	21	4 14.8	19.3
139435 2001 ON_{51}	15.7	X	274.13883	213.62941	82.56619	5.18615	0.0744587	0.23429588	2.6059112	21	3 20.7	19.3
139436 2001 OT_{51}	15.5	X	248.38763	245.25044	356.78438	8.62444	0.1759202	0.22574508	2.6713073	21	—	—
139437 2001 ON_{52}	15.3	X	181.82476	321.09427	88.22803	13.78514	0.1531768	0.23310568	2.6147739	21	5 4.6	19.7
139438 2001 OY_{52}	15.5	X	111.13846	276.07720	81.12383	8.84351	0.3110624	0.21572158	2.7534276	21	1 6.0	19.2
139439 2001 OK_{54}	15.6	X	90.23684	316.02477	94.22276	11.17963	0.2964324	0.21582731	2.7525283	21	2 15.7	19.1
139440 2001 OW_{55}	14.8	X	185.69656	96.79286	340.23673	13.20857	0.1634412	0.23297101	2.6157815	21	6 5.6	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139441 2001 OY_{56}	15.4	X	269.87503	300.37114	317.28114	7.90062	0.1401607	0.22870327	2.6482225	21	1 18.9	19.4
139442 2001 OQ_{60}	16.1	X	248.82350	64.14774	241.09187	7.96915	0.1957151	0.23212959	2.6220987	21	2 16.6	20.5
139443 2001 OT_{60}	15.1	X	301.08666	264.01666	302.15226	13.14740	0.0623680	0.22704654	2.6610894	21	—	—
139444 2001 OY_{61}	15.0	X	57.02589	281.05184	108.34384	7.15678	0.0738616	0.21457312	2.7632436	21	—	—
139445 2001 OE_{63}	16.2	X	138.85361	170.50330	151.99232	4.10788	0.2873815	0.21683093	2.7440282	21	—	—
139446 2001 OU_{63}	15.3	X	168.72552	45.56829	339.23617	12.67889	0.2741458	0.22699387	2.6615010	21	3 21.5	20.1
139447 2001 OD_{64}	15.4	X	172.94218	229.54911	114.20047	5.19412	0.1062769	0.22437859	2.6821420	21	1 29.2	19.3
139448 2001 OL_{64}	15.9	X	197.23953	102.59849	175.45085	12.74293	0.1886346	0.22206365	2.7007501	21	—	—
139449 2001 OX_{64}	16.0	X	356.40972	222.45746	17.49935	4.60519	0.2225913	0.24038007	2.5617520	21	4 12.6	18.1
139450 2001 OC_{65}	15.5	X	225.58669	224.54472	86.46850	6.39206	0.1363526	0.22890743	2.6466476	21	2 11.2	19.7
139451 2001 OE_{65}	15.1	X	197.63306	31.22665	323.36181	13.60417	0.1110711	0.23002518	2.6380668	21	3 3.9	19.3
139452 2001 OK_{66}	15.4	X	268.02022	158.47895	185.14795	9.19343	0.1453914	0.18528632	3.0472434	21	5 7.4	19.9
139453 2001 OT_{67}	15.9	X	273.62467	217.75149	42.52864	3.99113	0.1501414	0.23036884	2.6354426	21	1 24.9	20.0
139454 2001 OD_{69}	15.8	X	244.69140	269.04573	7.33558	4.49453	0.2099971	0.22710060	2.6606671	21	1 14.8	20.4
139455 2001 OC_{71}	15.4	X	86.93318	222.67033	117.94506	5.78434	0.2114784	0.20959571	2.8068193	21	—	—
139456 2001 OT_{71}	16.4	X	351.26241	85.03066	164.50656	2.45409	0.1969547	0.29068479	2.2569460	21	4 11.3	18.0
139457 2001 OJ_{74}	15.1	X	270.55734	222.67491	139.28826	10.89647	0.1158747	0.18943304	3.0026098	21	6 6.4	19.5
139458 2001 OT_{74}	13.6	X	16.67408	18.79887	292.23957	12.47831	0.1875821	0.19507654	2.9444172	21	9 12.1	17.2
139459 2001 OY_{74}	15.2	X	129.67546	40.91976	292.70470	8.74191	0.1904248	0.21682772	2.7440552	21	—	—
139460 2001 OS_{78}	15.4	X	88.21908	289.05641	133.69656	10.63485	0.1859399	0.21935107	2.7229702	21	2 7.5	18.5
139461 2001 OC_{80}	14.9	X	44.99818	335.91548	60.01859	10.35771	0.2206360	0.21079463	2.7961664	21	—	—
139462 2001 OD_{84}	15.3	X	120.46481	287.44180	352.38129	19.57229	0.2377709	0.21250089	2.7811786	21	12 14.9	20.5
139463 2001 OF_{85}	15.5	X	97.19926	158.24834	222.47858	3.52775	0.0562290	0.21955374	2.7212941	21	—	—
139464 2001 OH_{86}	14.8	X	49.48179	81.29246	341.07524	3.76351	0.1616195	0.21321653	2.7749520	21	—	—
139465 2001 OF_{88}	16.0	X	153.42572	346.86529	330.97448	1.94941	0.1828774	0.21916028	2.7245503	21	—	—
139466 2001 OU_{88}	14.7	X	198.72532	171.51135	124.33782	9.19411	0.1158592	0.17319204	3.1875042	21	1 6.2	19.7
139467 2001 OT_{90}	15.5	X	234.56982	159.36954	85.72269	3.80973	0.0351542	0.22141169	2.7060491	21	—	—
139468 2001 OV_{90}	16.2	X	18.27010	302.24522	289.34394	3.50787	0.1152499	0.24094552	2.5577425	21	5 21.9	18.9
139469 2001 OF_{91}	15.7	X	125.66447	334.55069	149.46137	14.25167	0.0348552	0.24056695	2.5604251	21	5 28.1	19.4
139470 2001 OK_{91}	14.9	X	345.35822	142.77420	224.02380	16.16480	0.1315527	0.20025672	2.8934189	21	10 1.3	18.5
139471 2001 OY_{91}	15.6	X	147.68677	145.55947	245.99586	13.44367	0.1110962	0.22545164	2.6736247	21	2 23.5	19.9
139472 2001 ON_{96}	16.2	X	9.54454	84.08008	242.75069	5.14303	0.3688318	0.19889762	2.9065847	21	10 25.3	18.6
139473 2001 OK_{99}	16.4	X	199.99405	159.67802	124.05147	4.31474	0.2302446	0.27194656	2.3594657	21	—	—
139474 2001 OW_{100}	15.0	X	172.37654	235.42463	122.87283	15.87229	0.1899593	0.22616150	2.6680272	21	2 22.6	19.4
139475 2001 OT_{102}	14.9	X	55.02581	272.53481	112.24210	9.97705	0.1637778	0.21126509	2.7920138	21	—	—
139476 2001 OC_{104}	15.3	X	243.46092	163.65534	114.81068	14.27591	0.1518838	0.22733995	2.6587992	21	1 17.6	19.4
139477 2001 OK_{104}	15.6	X	184.59765	166.94358	133.07697	17.08753	0.1761005	0.22040122	2.7143138	21	—	—
139478 2001 OP_{104}	15.2	X	88.74336	333.01818	209.17202	16.95082	0.1422451	0.17886906	3.1196981	21	7 7.2	20.0
139479 2001 OW_{105}	15.6	X	185.06931	114.45589	224.20010	4.69295	0.1688672	0.22470171	2.6795701	21	2 5.3	19.9
139480 2001 PU_{1}	15.2	X	118.86378	295.35401	95.22278	5.36439	0.1360492	0.22288948	2.6940749	21	1 31.3	18.8
139481 2001 PB_{3}	15.4	X	153.22622	19.12982	256.15941	8.46901	0.2532786	0.21408106	2.7674761	21	—	—
139482 2001 PP_{7}	15.0	X	76.25375	221.99134	156.86735	9.62304	0.2079121	0.21512051	2.7585541	21	—	—
139483 2001 PZ_{8}	15.2	X	294.56309	265.70675	86.95179	2.19034	0.0860919	0.19040874	2.9923437	21	6 28.3	19.1
139484 2001 PZ_{10}	16.1	X	293.70881	312.01150	6.99806	1.64233	0.1809490	0.23881533	2.5729297	21	4 25.1	19.6
139485 2001 PT_{14}	15.6	X	143.63572	246.35886	144.42521	2.47768	0.0516613	0.22755259	2.6571426	21	2 17.2	19.1
139486 2001 PT_{15}	15.6	X	164.13338	208.27357	88.37926	11.53124	0.2637290	0.21931773	2.7232461	21	—	—
139487 2001 PA_{20}	14.8	X	202.72030	177.20043	344.78840	14.78476	0.0719821	0.20514169	2.8473014	21	10 7.9	19.2
139488 2001 PU_{21}	15.9	X	308.96177	325.70048	329.30115	3.30468	0.1156764	0.23746602	2.5826670	21	4 22.8	19.2
139489 2001 PU_{23}	15.5	X	184.18434	221.14573	83.63495	7.97114	0.0653255	0.22107011	2.7088359	21	—	—
139490 2001 PY_{23}	15.5	X	150.15130	240.80556	59.55769	7.94334	0.0989970	0.21607073	2.7504606	21	—	—
139491 2001 PF_{26}	15.9	X	99.12666	222.41381	143.45263	15.90660	0.2885711	0.21393710	2.7687175	21	—	—
139492 2001 PK_{26}	14.9	X	279.25784	234.30735	143.99066	14.57571	0.1789188	0.19139206	2.9820856	21	6 27.9	19.3
139493 2001 PL_{28}	16.0	X	327.46402	76.86233	235.27173	0.66725	0.1280928	0.24240746	2.5474484	21	6 16.2	18.5
139494 2001 PE_{31}	16.0	X	330.13117	331.13214	217.50019	12.95052	0.0273583	0.22454153	2.6808443	21	1 15.1	19.9
139495 2001 PF_{31}	15.5	X	149.44230	101.32354	237.37893	12.87666	0.2084324	0.21944293	2.7222102	21	1 7.5	19.9
139496 2001 PJ_{31}	15.2	X	282.65817	51.49755	224.92385	11.72491	0.1350753	0.23140389	2.6275780	21	2 18.7	19.3
139497 2001 PC_{34}	15.1	X	234.67593	282.98457	307.09810	11.73498	0.1096603	0.21886273	2.7270191	21	—	—
139498 2001 PJ_{34}	14.5	X	324.41717	182.77194	302.84696	16.13572	0.1297774	0.21135693	2.7912049	21	—	—
139499 2001 PU_{35}	15.6	X	152.22883	171.15228	263.42445	11.95525	0.2584356	0.22923088	2.6441574	21	5 8.3	20.2
139500 2001 PO_{36}	15.3	X	250.76671	246.66274	42.77145	13.29190	0.1530402	0.22899492	2.6459735	21	2 11.7	19.7
139501 2001 PF_{37}	15.3	X	106.13057	232.89508	103.55233	15.06865	0.1454936	0.21357740	2.7718253	21	—	—
139502 2001 PT_{37}	15.3	X	93.62926	33.21861	35.77996	9.72434	0.0164205	0.22448853	2.6812663	21	2 1.7	19.0
139503 2001 PB_{39}	15.9	X	176.53356	257.49489	65.84436	11.59193	0.2834428	0.22204158	2.7009290	21	1 21.1	20.8
139504 2001 PU_{39}	15.7	X	65.34261	131.10575	286.56807	7.55021	0.0936766	0.21607397	2.7504331	21	—	—
139505 2001 PF_{40}	14.9	X	324.13020	27.49461	274.74191	9.43918	0.0758593	0.18843142	3.0132407	21	6 5.2	18.7
139506 2001 PM_{40}	15.4	X	120.60900	258.34246	243.23551	12.26083	0.1229761	0.23533179	2.5982583	21	6 21.5	19.2
139507 2001 PL_{41}	15.1	X	134.73131	182.83092	260.46265	10.42419	0.2659134	0.22599598	2.6693298	21	5 5.3	19.7
139508 2001 PW_{42}	16.5	X	156.83874	70.80648	222.65600	8.29053	0.2538154	0.21572933	2.7533616	21	—	—
139509 2001 PC_{47}	16.7	X	273.27045	82.80674	298.06402	0.97218	0.2094493	0.24080313	2.5587506	21	6 18.1	20.1
139510 2001 PG_{47}	15.3	X	126.58380	98.89970	295.23925	9.96713	0.0584104	0.22322235	2.6913960	21	1 31.8	19.0
139511 2001 PV_{48}	15.0	X	118.60593	181.06659	268.08524	21.64620	0.0486563	0.22985152	2.6393954	21	3 20.6	19.2
139512 2001 PY_{49}	15.3	X	164.92425	337.66701	18.41447	14.59815	0.1281792	0.22321092	2.6914879	21	2 13.0	19.6
139513 2001 PA_{50}	15.6	X	330.05672	244.73561	83.55272	11.41639	0.1331924	0.24298093	2.5434386	21	7 15.9	18.2
139514 2001 PM_{50}	15.6	X	93.76729	321.65452	74.19081	10.83051	0.1674716	0.21732136	2.7398983	21	1 9.7	18.9
139515 2001 PD_{53}	15.7	X	250.84066	56.67332	159.14601	5.09989	0.0539381	0.21933611	2.7230940	21	—	—
139516 2001 PA_{57}	16.3	X	72.01837	148.58289	203.87956	1.64732	0.2517631	0.21052103	2.7985886	21	—	—
139517 2001 PY_{57}	14.7	X	216.85947	191.24211	326.90012	16.28770	0.0417188	0.20308726	2.8664713	21	10 19.3	19.2
139518 2001 PJ_{59}	15.2	X	56.66559	299.38758	164.73190	15.93473	0.0957817	0.21978193	2.7194103	21	1 29.7	18.6
139519 2001 PP_{60}	15.0	X	40.52221	115.91174	311.68633	3.98487	0.1027884	0.21722940	2.7406715	21	—	—
139520 2001 PM_{61}	15.8	X	78.09415	39.56013	341.72400	5.04191	0.1102036	0.21433246	2.7653116	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139521 2001 PA_{65}	15.1	X	27.44841	290.28471	109.55317	6.90601	0.0399972	0.20928770	2.8095725	21	—	—
139522 2001 QX_{1}	15.3	X	197.55070	252.35433	339.92023	11.96041	0.1569823	0.21382120	2.7697179	21	12 26.9	19.8
139523 2001 QH_{2}	15.0	X	357.82548	304.35461	132.85194	9.92041	0.1388223	0.21030143	2.8005365	21	—	—
139524 2001 QJ_{2}	15.5	X	235.04506	333.04220	352.99337	2.88711	0.0993036	0.22983472	2.6395241	21	3 10.1	19.4
139525 2001 QN_{3}	15.8	X	160.99226	322.14156	323.84368	7.25998	0.2150809	0.21742802	2.7390021	21	—	—
139526 2001 QU_{4}	15.6	X	72.16330	212.60069	151.36562	14.33847	0.1979879	0.21177248	2.7875524	21	—	—
139527 2001 QM_{5}	15.5	X	37.32513	297.22320	335.85203	8.68582	0.1109323	0.19749187	2.9203612	21	8 24.1	18.9
139528 2001 QO_{5}	15.7	X	65.09031	52.33828	329.89569	6.90095	0.2395534	0.21202117	2.7853722	21	—	—
139529 2001 QO_{9}	15.6	X	209.80839	63.14473	311.95308	3.95111	0.2283651	0.23130129	2.6283549	21	4 9.9	20.2
139530 2001 QF_{11}	15.8	X	245.90632	44.80894	257.78119	2.37038	0.1528840	0.22890553	2.6466622	21	2 16.2	19.9
139531 2001 QD_{12}	15.3	X	125.61896	157.20471	173.58609	5.41840	0.1134336	0.21496252	2.7599056	21	—	—
139532 2001 QM_{12}	15.6	X	78.69276	9.01874	341.62873	3.37455	0.2042139	0.21043695	2.7993340	21	—	—
139533 2001 QW_{12}	14.7	X	230.57898	59.00195	335.36096	14.34806	0.1448676	0.18659474	3.0329817	21	5 26.2	19.7
139534 2001 QS_{18}	15.9	X	311.73844	224.54570	143.87371	3.41129	0.1804069	0.24389303	2.5370934	21	8 3.5	18.6
139535 2001 QC_{21}	14.9	X	1.46542	247.61134	159.58912	15.11449	0.1436298	0.20465607	2.8518037	21	12 28.3	18.6
139536 2001 QY_{24}	15.2	X	239.97698	263.67704	181.28512	11.80498	0.1034397	0.19243055	2.9713470	21	8 12.9	19.8
139537 2001 QE_{25}	15.2	X	231.32973	265.75465	9.09026	7.03473	0.2810865	0.22424311	2.6832223	21	1 1.8	20.2
139538 2001 QZ_{35}	15.2	X	87.93865	274.11249	115.80505	5.84947	0.1198854	0.21917989	2.7243877	21	—	—
139539 2001 QJ_{36}	16.1	X	110.11963	219.60672	143.38665	2.91375	0.2041374	0.21770118	2.7367105	21	—	—
139540 2001 QY_{37}	15.4	X	134.52713	319.85677	325.81262	8.56708	0.1833559	0.21380648	2.7698451	21	—	—
139541 2001 QR_{38}	15.4	X	204.88913	203.35697	129.19412	14.81382	0.1344566	0.22917939	2.6445534	21	2 17.3	19.6
139542 2001 QH_{40}	16.1	X	106.06371	80.20802	285.00403	0.77349	0.2412836	0.21706262	2.7420752	21	—	—
139543 2001 QL_{45}	16.7	X	45.44915	269.76040	43.14697	1.25117	0.2115111	0.25345988	2.4728431	21	11 19.9	19.9
139544 2001 QJ_{46}	15.6	X	124.83954	161.90569	161.38908	6.67946	0.0618069	0.21529421	2.7570701	21	—	—
139545 2001 QZ_{48}	15.9	X	212.25954	16.66970	316.26785	1.38572	0.0826584	0.22818829	2.6522053	21	2 23.3	19.9
139546 2001 QJ_{50}	14.9	X	61.83069	113.46587	336.65915	13.07270	0.1642297	0.22066736	2.7121309	21	1 30.6	17.8
139547 2001 QC_{51}	15.2	X	111.71782	296.98264	111.85355	4.82319	0.2229553	0.22243592	2.6977359	21	2 27.5	18.9
139548 2001 QG_{55}	15.5	X	2.45995	207.19764	110.38487	4.26335	0.1872026	0.19728445	2.9224078	21	9 2.2	18.5
139549 2001 QJ_{56}	15.1	X	331.59765	241.67890	110.43161	3.55547	0.1216805	0.19702623	2.9249605	21	8 21.7	18.5
139550 2001 QX_{56}	15.2	X	172.54950	309.95735	350.35906	14.19285	0.0825003	0.21889144	2.7267806	21	—	—
139551 2001 QF_{57}	15.5	X	189.98016	235.70219	97.72475	3.15672	0.0890349	0.22466280	2.6798795	21	2 2.4	19.5
139552 2001 QK_{58}	14.8	X	355.65821	342.45893	358.94146	11.96449	0.0899083	0.19791467	2.9162006	21	9 17.4	18.2
139553 2001 QZ_{58}	15.6	X	129.49229	52.40493	313.25121	5.44861	0.0475118	0.21913671	2.7247456	21	—	—
139554 2001 QV_{59}	15.7	X	235.71829	278.18186	103.47103	5.92374	0.1731274	0.23611110	2.5925379	21	5 15.9	19.9
139555 2001 QP_{67}	16.4	X	145.93012	36.56532	19.08047	8.45980	0.2319011	0.27638710	2.3341255	21	4 6.3	19.8
139556 2001 QT_{67}	15.3	X	78.20874	283.54198	109.55375	9.91698	0.1728997	0.21519550	2.7579132	21	—	—
139557 2001 QF_{68}	14.3	X	81.65794	47.80225	314.04841	26.55571	0.2091278	0.21164408	2.7886796	21	—	—
139558 2001 QJ_{68}	15.1	X	150.16342	169.53836	221.87636	13.58472	0.1767566	0.22461143	2.6802881	21	3 6.3	19.6
139559 2001 QH_{70}	15.7	X	126.40017	142.68889	194.01584	9.49618	0.2744620	0.21504991	2.7591578	21	—	—
139560 2001 QL_{71}	14.5	X	66.44189	201.25903	278.82870	26.72646	0.1544622	0.17590231	3.1546779	21	3 7.4	19.1
139561 2001 QF_{72}	15.4	X	108.99312	346.23027	35.15864	2.89107	0.1855928	0.21529061	2.7571009	21	1 15.8	19.1
139562 2001 QE_{74}	14.6	X	97.87001	48.90664	359.79822	7.39417	0.2284371	0.21480976	2.7612138	21	2 12.8	18.2
139563 2001 QJ_{75}	15.2	X	107.98451	28.95151	11.85641	5.31406	0.1757882	0.21504061	2.7592373	21	2 7.7	18.9
139564 2001 QC_{76}	13.8	X	196.96951	0.78017	20.46418	14.61616	0.1519887	0.17556927	3.1586661	21	4 12.6	19.0
139565 2001 QL_{77}	15.3	X	260.55815	332.57362	48.18391	4.55096	0.3339198	0.18476651	3.0529560	21	5 23.4	20.5
139566 2001 QR_{77}	14.5	X	245.37266	208.33114	207.60819	18.58694	0.1923535	0.18449091	3.0559956	21	7 2.8	19.7
139567 2001 QM_{80}	14.7	X	223.80331	5.55667	35.92757	18.42412	0.2038868	0.18038419	3.1022043	21	5 24.6	20.1
139568 2001 QL_{81}	14.5	X	340.04167	17.32259	332.38713	9.01695	0.0786439	0.19332019	2.9622241	21	9 1.6	18.2
139569 2001 QU_{84}	15.9	X	246.17264	309.03728	102.85584	6.05862	0.2621582	0.24110125	2.5566409	21	6 24.2	20.1
139570 2001 QF_{87}	14.9	X	253.04473	158.11614	233.44328	9.88037	0.1383975	0.18850108	3.0124984	21	6 18.6	19.4
139571 2001 QF_{88}	15.5	X	89.26218	228.76541	151.10666	4.26290	0.1157599	0.21624380	2.7489928	21	—	—
139572 2001 QE_{90}	14.5	X	237.73006	84.77855	272.17507	20.67297	0.0170905	0.18036319	3.1024451	21	4 27.5	19.3
139573 2001 QH_{90}	14.8	X	201.56117	264.59046	115.76713	17.31728	0.2598999	0.17698772	3.1417669	21	4 22.3	20.6
139574 2001 QR_{90}	14.9	X	265.94850	226.65422	116.37315	24.42962	0.1870003	0.18449281	3.0559747	21	5 8.4	20.0
139575 2001 QW_{91}	15.7	X	107.05082	31.30753	259.46609	5.50786	0.0909420	0.21022990	2.8011717	21	12 9.2	19.9
139576 2001 QZ_{91}	16.4	X	321.44614	209.53348	52.93975	7.15827	0.1560543	0.23590625	2.5940385	21	3 26.4	19.7
139577 2001 QP_{93}	13.9	X	231.82197	331.55434	46.92799	15.64825	0.2049664	0.17919862	3.1158720	21	5 7.6	18.9
139578 2001 QP_{94}	15.5	X	17.84945	180.88009	194.83268	1.63893	0.0774048	0.20371530	2.8605768	21	12 4.1	19.0
139579 2001 QB_{96}	15.9	X	352.63139	116.90278	265.52477	0.95142	0.0800927	0.20412682	2.8567309	21	11 5.7	19.3
139580 2001 QZ_{96}	15.3	X	210.34661	343.51571	270.30603	4.13382	0.1139258	0.21939410	2.7226141	21	—	—
139581 2001 QJ_{103}	15.6	X	178.61581	170.69426	119.48442	10.22998	0.0934550	0.21915290	2.7246114	21	—	—
139582 2001 QA_{105}	14.5	X	198.11949	201.76076	207.14206	3.83761	0.1516427	0.17853979	3.1235325	21	5 17.3	19.5
139583 2001 QK_{105}	15.2	X	65.24440	224.07562	165.51369	25.47725	0.0981909	0.20870371	2.8148112	21	—	—
139584 2001 QX_{105}	15.1	X	268.14529	35.57699	248.66754	13.74991	0.1696705	0.23071285	2.6328222	21	2 8.6	19.5
139585 2001 QB_{110}	15.6	X	56.70863	352.70193	13.37184	7.67646	0.1591495	0.20947491	2.8078983	21	—	—
139586 2001 QS_{110}	16.1	X	228.34012	59.59994	230.52995	11.34366	0.1486462	0.22318637	2.6916852	21	1 15.7	20.7
139587 2001 QO_{111}	16.8	X	97.38665	138.31188	325.51760	19.00023	0.0839607	0.37487483	1.9049278	21	2 26.8	18.2
139588 2001 QS_{111}	16.0	X	3.53439	105.19213	326.36147	6.03330	0.1214314	0.25586873	2.4572984	21	—	—
139589 2001 QT_{111}	15.6	X	185.52104	170.50200	269.96482	10.81719	0.1556505	0.23334082	2.6130170	21	6 11.5	19.8
139590 2001 QJ_{113}	14.5	X	115.98650	268.61195	270.21495	9.21980	0.0411056	0.18992380	2.9974351	21	7 23.9	18.9
139591 2001 QS_{113}	15.9	X	65.42942	139.08321	281.45677	8.09770	0.1434026	0.21608558	2.7503346	21	—	—
139592 2001 QK_{114}	16.1	X	181.82267	63.04514	212.13213	7.00448	0.2474120	0.21796127	2.7345329	21	—	—
139593 2001 QL_{114}	14.4	X	207.81833	195.31888	290.66382	8.19553	0.0644719	0.19602437	2.9349182	21	8 31.3	18.9
139594 2001 QN_{114}	15.2	X	288.79996	189.68546	192.38600	10.24234	0.1149983	0.19309654	2.9645109	21	7 22.6	19.4
139595 2001 QN_{116}	15.4	X	94.86441	62.87992	309.09438	6.84773	0.1906299	0.21351590	2.7723575	21	—	—
139596 2001 QX_{116}	14.7	X	124.57129	356.78759	297.59155	9.06362	0.1989362	0.21017681	2.8016434	21	—	—
139597 2001 QD_{118}	14.8	X	247.95999	128.48651	308.03147	8.99227	0.0844523	0.19308129	2.9646670	21	8 15.2	19.0
139598 2001 QT_{120}	15.1	X	140.06219	285.27429	125.58706	12.31684	0.1980597	0.22765116	2.6563755	21	3 31.7	19.4
139599 2001 QJ_{122}	15.2	X	57.12826	307.44490	116.93028	9.26967	0.1629091	0.21706728	2.7420359	21	—	—
139600 2001 QL_{122}	15.6	X	56.35534	78.35639	338.48612	24.08040	0.1851255	0.21563433	2.7541703	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139601 2001 QY_{124}	15.4	X	69.07989	14.51871	21.45933	5.20384	0.1674147	0.21456539	2.7633100	21	—	—
139602 2001 QH_{125}	14.6	X	263.80477	81.80394	316.76990	9.59546	0.0534114	0.19115768	2.9845227	21	7 23.6	18.8
139603 2001 QR_{125}	15.4	X	69.36075	348.11699	10.70238	4.02327	0.1115639	0.21055153	2.7983183	21	—	—
139604 2001 QP_{126}	15.6	X	72.12287	193.72704	176.93540	15.28748	0.2251591	0.21251608	2.7810461	21	—	—
139605 2001 QH_{127}	15.6	X	143.07449	30.84037	256.35674	6.58224	0.1811258	0.21456043	2.7633525	21	—	—
139606 2001 QJ_{127}	16.1	X	16.16836	357.96560	260.30680	7.34374	0.1722273	0.24322517	2.5417356	21	7 1.9	18.4
139607 2001 QZ_{127}	15.8	X	103.41791	153.83026	196.04724	8.95846	0.1638580	0.21473273	2.7618741	21	—	—
139608 2001 QF_{128}	16.1	X	320.93004	28.96803	227.92066	5.71721	0.3032360	0.23705078	2.5856821	21	2 16.7	19.6
139609 2001 QB_{129}	15.8	X	216.82714	95.31090	206.30519	6.18535	0.1373678	0.22529629	2.6748536	21	1 20.0	20.1
139610 2001 QX_{132}	14.6	X	72.27519	308.80882	19.12307	16.00764	0.3085416	0.20637424	2.8359532	21	—	—
139611 2001 QG_{133}	16.3	X	111.32629	163.90592	186.83945	12.73427	0.2173680	0.21504072	2.7592364	21	—	—
139612 2001 QZ_{135}	15.1	X	73.90399	223.26278	213.88794	8.74153	0.2460737	0.21490461	2.7604013	21	2 10.1	18.2
139613 2001 QG_{136}	15.3	X	178.07965	94.51342	334.59352	13.38017	0.1291149	0.23025827	2.6362862	21	5 16.1	19.7
139614 2001 QW_{136}	14.8	X	297.38064	102.55057	281.92602	8.27243	0.0926580	0.19074917	2.9887823	21	8 10.2	18.8
139615 2001 QX_{136}	14.8	X	300.95102	69.45840	299.77794	9.00552	0.1154058	0.18978727	2.9988724	21	7 25.2	18.4
139616 2001 QY_{136}	15.1	X	133.02351	145.78600	253.84063	8.61087	0.1820485	0.21975911	2.7195985	21	2 28.7	19.3
139617 2001 QS_{137}	14.7	X	326.26396	37.09814	338.93627	9.76976	0.0819382	0.19331798	2.9622466	21	9 14.3	18.3
139618 2001 QW_{138}	14.4	X	202.65331	99.44995	330.53043	12.16140	0.1835203	0.23164547	2.6257508	21	6 13.2	19.0
139619 2001 QD_{141}	14.7	X	251.64915	146.19334	263.14728	12.56489	0.1759463	0.18559738	3.0438376	21	7 4.5	19.5
139620 2001 QF_{141}	16.4	X	234.87861	108.10457	219.91802	20.45066	0.0904806	0.37439607	1.9065514	21	2 12.2	19.4
139621 2001 QO_{141}	15.6	X	75.53338	234.85738	136.08434	5.18211	0.0848965	0.21270966	2.7793586	21	—	—
139622 2001 QQ_{142}	18.3	X	213.42291	337.90587	83.26205	9.31650	0.3111569	0.58082181	1.4226807	21	5 30.2	19.7
139623 2001 QR_{142}	14.4	X	279.86817	336.15139	317.56075	21.06639	0.0751885	0.18222329	3.0812963	21	3 17.1	19.1
139624 2001 QX_{146}	15.2	X	182.07333	288.08829	68.56658	15.84501	0.1147778	0.22591318	2.6699820	21	3 3.1	19.6
139625 2001 QF_{149}	15.8	X	154.09148	357.09047	20.55969	2.92762	0.0936480	0.22643668	2.6658653	21	2 18.9	19.6
139626 2001 QF_{150}	15.5	X	297.15385	225.28905	91.29152	5.47802	0.2844262	0.23583699	2.5945464	21	4 14.5	19.2
139627 2001 QO_{150}	17.3	X	209.53399	346.08304	191.54339	25.14467	0.0352920	0.40239804	1.8170441	21	12 22.6	19.7
139628 2001 QQ_{151}	16.1	X	266.55722	320.71675	102.76733	5.17463	0.1357679	0.24484881	2.5304866	21	8 19.9	19.4
139629 2001 QO_{152}	15.9	X	99.87117	155.92318	192.75998	4.49952	0.1762386	0.21179196	2.7873814	21	—	—
139630 2001 QY_{155}	16.4	X	191.73522	125.07235	175.67371	4.30232	0.2333484	0.22164847	2.7041216	21	1 2.2	21.1
139631 2001 QP_{156}	15.3	X	84.53968	218.71101	165.55281	13.89781	0.1830475	0.21484658	2.7608984	21	—	—
139632 2001 QT_{156}	15.5	X	88.81301	113.42105	241.69270	2.98688	0.1271169	0.21281789	2.7784162	21	—	—
139633 2001 QN_{157}	15.5	X	332.83969	47.63762	316.28989	7.40763	0.1551563	0.19775431	2.9177769	21	9 4.3	18.6
139634 2001 QQ_{157}	15.5	X	302.65696	4.66947	320.46488	7.59774	0.1700856	0.19040345	2.9923990	21	5 19.1	19.6
139635 2001 QS_{157}	15.6	X	59.88938	249.46207	178.55618	5.42688	0.0386606	0.21900803	2.7258128	21	—	—
139636 2001 QH_{159}	15.1	X	10.94565	229.97811	148.86725	3.73410	0.0648487	0.20513569	2.8473568	21	11 27.9	18.8
139637 2001 QA_{160}	15.5	X	203.60085	332.88390	335.11740	4.88684	0.0405811	0.22289655	2.6940180	21	1 15.6	19.4
139638 2001 QH_{160}	15.2	X	348.70873	182.20813	339.79977	17.34575	0.0300635	0.22243730	2.6977248	21	1 13.6	19.0
139639 2001 QZ_{160}	15.5	X	342.44290	94.59313	296.35903	0.96382	0.0736660	0.20309814	2.8663689	21	10 31.8	19.1
139640 2001 QZ_{162}	15.6	X	71.60335	126.52266	211.02971	5.00992	0.1144944	0.20910710	2.8111900	21	12 29.5	19.8
139641 2001 QY_{165}	15.6	X	138.81039	219.27310	93.51806	6.05894	0.0942911	0.21576277	2.7530771	21	—	—
139642 2001 QM_{166}	15.4	X	9.29829	342.20136	135.97736	10.04936	0.1180265	0.21903570	2.7255832	21	—	—
139643 2001 QL_{167}	15.1	X	37.43669	157.86403	6.71845	12.83444	0.1409510	0.23117875	2.6292836	21	3 23.9	17.8
139644 2001 QZ_{168}	15.6	X	197.77261	331.34180	76.35897	5.46685	0.2457172	0.23398481	2.6082203	21	5 12.5	20.2
139645 2001 QC_{170}	14.8	X	104.91263	166.14641	320.18578	8.60375	0.0610546	0.18251142	3.0780525	21	5 4.8	19.4
139646 2001 QC_{171}	15.9	X	106.90879	320.57497	8.30967	2.63410	0.0880681	0.21129561	2.7917449	21	—	—
139647 2001 QR_{171}	16.2	X	202.45885	106.73907	188.52924	9.03532	0.1589029	0.22352463	2.6889690	21	1 1.2	20.7
139648 2001 QA_{172}	15.5	X	37.80339	101.10715	180.24428	10.93858	0.1518265	0.19878957	2.9076379	21	9 9.5	19.1
139649 2001 QT_{174}	15.9	X	187.13751	162.37805	324.60296	4.18834	0.0495563	0.24388256	2.5371660	21	8 15.7	19.2
139650 2001 QF_{176}	15.8	X	36.41205	252.58274	150.96544	2.27370	0.0865512	0.21239680	2.7820872	21	—	—
139651 2001 QM_{176}	15.8	X	68.16266	270.25363	137.27907	1.24892	0.0904966	0.21707302	2.7419875	21	—	—
139652 2001 QT_{176}	16.1	X	76.01929	214.64387	170.56005	5.49497	0.0928205	0.21328928	2.7743209	21	—	—
139653 2001 QE_{177}	16.3	X	258.41477	68.66262	164.93806	3.00610	0.1201015	0.21990256	2.7184156	21	—	—
139654 2001 QP_{177}	15.7	X	96.50827	21.51780	333.10277	5.17700	0.0359354	0.21662746	2.7457461	21	—	—
139655 2001 QD_{183}	16.0	X	42.28989	149.56026	180.70191	1.94305	0.0694543	0.20428705	2.8552370	21	11 9.0	19.8
139656 2001 QW_{183}	15.9	X	75.37509	104.55448	261.53141	1.14711	0.1341781	0.21274944	2.7790120	21	—	—
139657 2001 QC_{184}	16.6	X	195.80546	76.82015	305.89154	1.79877	0.1077009	0.23158986	2.6261711	21	4 8.2	20.5
139658 2001 QY_{184}	15.7	X	120.26569	113.07343	219.60529	10.72002	0.1621732	0.21454393	2.7634943	21	—	—
139659 2001 QZ_{184}	15.6	X	148.48542	25.63926	243.93348	12.31682	0.2139132	0.21415942	2.7668010	21	12 24.4	20.4
139660 2001 QA_{185}	15.3	X	42.66759	158.62190	232.61999	12.90623	0.1511255	0.21104086	2.7939911	21	—	—
139661 2001 QK_{186}	15.7	X	181.83988	32.11816	324.72208	5.45524	0.0268820	0.22549285	2.6732990	21	2 17.7	19.3
139662 2001 QL_{187}	15.7	X	206.35242	312.06493	112.77895	6.53375	0.3155091	0.23605259	2.5929663	21	6 7.1	20.4
139663 2001 QX_{187}	15.5	X	81.48938	135.92307	266.23408	11.54195	0.1140260	0.21557771	2.7546524	21	—	—
139664 2001 QE_{189}	15.3	X	195.76834	186.80986	36.06732	5.82153	0.0121759	0.21145009	2.7903851	21	12 26.3	19.2
139665 2001 QX_{190}	15.1	X	188.01871	30.36650	297.76237	14.04044	0.0970997	0.22194715	2.7016951	21	1 24.4	19.3
139666 2001 QG_{192}	14.5	X	147.11110	173.98733	272.11612	12.27131	0.2152710	0.22823986	2.6518058	21	5 15.8	19.0
139667 2001 QZ_{193}	14.9	X	247.94986	133.71715	267.42669	10.96152	0.1336998	0.18764220	3.0216839	21	6 25.8	19.3
139668 2001 QB_{194}	14.8	X	235.69992	145.03567	292.88162	11.96740	0.1182724	0.23978981	2.5659542	21	7 30.8	18.5
139669 2001 QJ_{194}	14.3	X	175.12077	187.72962	264.56070	10.66450	0.1432384	0.18327767	3.0694673	21	6 17.4	19.1
139670 2001 QH_{196}	16.5	X	358.11080	2.19619	249.95100	3.18162	0.1779888	0.28907969	2.2652927	21	5 3.6	18.1
139671 2001 QN_{200}	16.5	X	320.40105	354.07486	221.88977	20.29073	0.0556469	0.37130203	1.9171283	21	—	—
139672 2001 QD_{201}	15.7	X	23.71962	207.48885	204.68072	6.90300	0.1166191	0.20897705	2.8123561	21	—	—
139673 2001 QS_{202}	15.7	X	176.84016	9.69446	51.48525	3.66290	0.1917963	0.23339096	2.6126427	21	5 10.8	20.0
139674 2001 QD_{203}	15.5	X	155.05078	344.69382	70.66156	4.55396	0.1628068	0.23027800	2.6361357	21	4 14.2	19.7
139675 2001 QS_{203}	16.0	X	208.10014	309.39243	27.46324	2.92620	0.1092024	0.22946531	2.6423562	21	2 25.1	20.0
139676 2001 QQ_{204}	15.2	X	322.31759	184.16400	290.28735	8.17415	0.1142013	0.21120568	2.7925373	21	—	—
139677 2001 QB_{205}	15.1	X	319.70823	70.20737	294.09330	7.55275	0.0913485	0.19579537	2.9372062	21	8 17.9	18.8
139678 2001 QG_{205}	16.2	X	272.14913	272.99646	292.33514	6.48963	0.0983497	0.26838263	2.3803077	21	—	—
139679 2001 QA_{206}	16.4	X	176.17980	56.65970	336.01687	3.76565	0.1057597	0.27885840	2.3203147	21	3 26.4	19.8
139680 2001 QE_{206}	15.4	X	314.36240	178.91033	161.38640	11.73579	0.1051118	0.19263213	2.9692737	21	7 7.4	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139681 2001 QR_{206}	15.8	X	50.33777	340.06849	130.78379	3.60794	0.0324808	0.22334087	2.6904438	21	1 26.5	19.0
139682 2001 QM_{207}	15.2	X	53.15284	234.62951	138.81559	8.98945	0.0696276	0.21046973	2.7990433	21	—	—
139683 2001 QG_{208}	15.9	X	199.30328	0.22920	72.90545	2.62931	0.1788037	0.23706723	2.5855625	21	6 14.5	20.2
139684 2001 QV_{208}	15.6	X	98.72311	358.48104	337.01013	4.35038	0.1646027	0.21271499	2.7793121	21	—	—
139685 2001 QN_{210}	15.1	X	84.30833	195.80191	170.75256	9.16034	0.1592453	0.21058932	2.7979835	21	—	—
139686 2001 QW_{210}	15.5	X	52.89516	6.06241	194.99913	9.29226	0.0350498	0.23617500	2.5920703	21	5 30.9	18.9
139687 2001 QY_{210}	15.2	X	71.67003	135.79638	253.72861	4.31911	0.1615769	0.21288681	2.7778164	21	—	—
139688 2001 QT_{212}	16.1	X	88.30284	170.80149	174.06881	3.72203	0.0915501	0.21063957	2.7975385	21	—	—
139689 2001 QG_{213}	16.3	X	272.68135	135.81119	208.63096	1.92810	0.1985018	0.23626823	2.5913883	21	5 1.9	20.1
139690 2001 QN_{214}	16.5	X	139.85247	138.52077	155.87291	2.39395	0.2459822	0.21384247	2.7695342	21	—	—
139691 2001 QT_{214}	15.3	X	294.63043	291.20390	160.21269	4.81408	0.2342572	0.20025968	2.8933904	21	10 18.9	18.5
139692 2001 QU_{214}	15.5	X	55.42670	64.01347	346.72265	8.16345	0.1523467	0.21307063	2.7762186	21	—	—
139693 2001 QG_{215}	15.5	X	124.51616	324.58546	357.72805	2.28101	0.0405426	0.21255146	2.7807375	21	—	—
139694 2001 QJ_{218}	15.4	X	276.02159	55.78579	339.00775	8.36833	0.1095218	0.19306531	2.9648306	21	7 27.1	19.5
139695 2001 QY_{218}	16.0	X	147.59638	343.33410	306.42528	2.64391	0.0685657	0.21273555	2.7791330	21	—	—
139696 2001 QN_{220}	15.6	X	152.52990	13.62809	321.02731	2.22062	0.1840934	0.21813563	2.7330756	21	1 5.9	19.9
139697 2001 QY_{222}	15.8	X	191.64459	182.14976	105.22422	4.55298	0.0430246	0.21975374	2.7196428	21	—	—
139698 2001 QB_{223}	15.6	X	173.03356	315.55640	106.87760	4.62807	0.1834896	0.23264757	2.6182053	21	5 10.3	19.9
139699 2001 QR_{223}	16.6	X	82.42858	278.24349	130.43541	1.91015	0.1740394	0.26847884	2.3797390	21	—	—
139700 2001 QX_{225}	15.0	X	0.50686	344.53196	288.61079	9.12943	0.0739579	0.18899358	3.0072626	21	6 22.8	18.8
139701 2001 QH_{226}	15.2	X	279.74270	209.85784	219.50650	7.69428	0.0549768	0.19715372	2.9236995	21	9 19.4	19.3
139702 2001 QN_{226}	14.7	X	251.38303	25.94406	333.30992	16.73673	0.1153484	0.18479962	3.0525914	21	5 2.9	19.7
139703 2001 QC_{227}	15.4	X	80.47344	317.82737	200.14158	13.53567	0.1036381	0.23346805	2.6120676	21	5 21.9	18.8
139704 2001 QK_{227}	15.5	X	80.17979	231.39719	206.28976	12.40594	0.1581106	0.22022301	2.7157779	21	2 5.9	18.9
139705 2001 QF_{228}	16.1	X	79.05228	114.78775	222.83630	8.15862	0.1701185	0.20945876	2.8080426	21	—	—
139706 2001 QT_{228}	15.2	X	184.98017	196.00481	262.99297	9.02937	0.0329760	0.19006434	2.9959573	21	7 5.3	19.4
139707 2001 QD_{229}	16.6	X	142.85280	94.26671	217.47295	7.04666	0.2059899	0.21549635	2.7553458	21	—	—
139708 2001 QX_{230}	15.1	X	119.84688	253.74251	285.54342	8.95309	0.0425587	0.19279006	2.9676519	21	7 29.9	19.4
139709 2001 QT_{231}	15.9	X	75.65489	202.15484	219.99543	8.22625	0.1279188	0.21892392	2.7265109	21	1 7.9	19.2
139710 2001 QU_{232}	15.5	X	256.38902	104.58819	171.08755	14.20425	0.1040737	0.22540663	2.6739806	21	1 27.7	19.7
139711 2001 QO_{233}	15.1	X	18.40204	95.99956	273.18593	1.09507	0.0683441	0.20342462	2.8633012	21	11 25.1	18.7
139712 2001 QB_{234}	15.6	X	199.17005	66.72625	176.12191	4.36280	0.0142337	0.21139562	2.7908643	21	—	—
139713 2001 QH_{235}	15.6	X	160.04928	340.77877	345.78721	8.78472	0.0765614	0.21743552	2.7389392	21	—	—
139714 2001 QQ_{237}	15.9	X	127.09852	156.46189	158.80554	7.56461	0.2071901	0.26271580	2.4144150	21	—	—
139715 2001 QF_{238}	16.0	X	278.96272	19.05180	358.26381	3.09858	0.1908209	0.23953936	2.5677424	21	6 23.3	19.5
139716 2001 QF_{240}	15.8	X	134.46183	7.35437	344.29124	4.84774	0.0717240	0.21787426	2.7352609	21	—	—
139717 2001 QS_{240}	16.3	X	195.90859	148.88445	173.35131	1.81063	0.0653391	0.22206116	2.7007703	21	1 24.4	20.3
139718 2001 QW_{240}	15.1	X	306.83387	184.08525	183.86845	7.34719	0.0503237	0.19290238	2.9664998	21	8 8.2	19.1
139719 2001 QH_{241}	16.1	X	254.28813	18.34044	4.42565	2.90371	0.1393723	0.23707201	2.5855277	21	6 7.3	19.8
139720 2001 QM_{241}	15.4	X	251.03633	142.26957	184.23369	4.67245	0.1510438	0.18116578	3.0932755	21	3 28.1	20.1
139721 2001 QA_{243}	14.9	X	288.25154	47.88625	38.04606	2.82293	0.0250627	0.20031646	2.8928436	21	10 28.7	18.8
139722 2001 QU_{244}	14.6	X	93.93879	338.49371	358.87474	5.70186	0.0559148	0.20883157	2.8136622	21	—	—
139723 2001 QB_{246}	15.5	X	19.51431	41.86588	1.67569	15.03692	0.1433410	0.20509102	2.8477703	21	—	—
139724 2001 QW_{246}	14.7	X	5.73366	112.24579	182.30679	17.48711	0.0751991	0.18999598	2.9966759	21	7 26.9	18.8
139725 2001 QE_{249}	14.2	X	315.97466	345.56276	37.93770	11.44884	0.1043309	0.19244308	2.9712180	21	9 13.6	18.0
139726 2001 QB_{250}	15.5	X	107.77777	324.12242	72.94613	6.50432	0.0793927	0.22003535	2.7173218	21	1 17.5	19.0
139727 2001 QD_{250}	14.7	X	93.57068	300.41817	119.57740	14.20929	0.1901848	0.21938174	2.7227163	21	2 14.0	18.1
139728 2001 QE_{250}	15.2	X	194.55861	174.94961	133.09327	17.81215	0.1584421	0.22181986	2.7027286	21	1 10.3	19.7
139729 2001 QJ_{250}	15.1	X	357.76881	346.67238	32.45876	11.02346	0.1386573	0.20222792	2.8745860	21	11 12.1	18.3
139730 2001 QY_{251}	15.4	X	65.82917	180.34239	244.88005	8.38447	0.1656392	0.22004168	2.7172698	21	—	—
139731 2001 QP_{254}	15.0	X	31.66302	305.99362	117.79153	13.62065	0.1580667	0.21346456	2.7728020	21	—	—
139732 2001 QQ_{256}	15.1	X	246.53025	312.06895	103.58196	4.31024	0.2257160	0.23826899	2.5768612	21	7 2.9	19.2
139733 2001 QG_{257}	16.0	X	88.62664	191.73359	142.13258	9.23722	0.2248330	0.20895936	2.8125149	21	—	—
139734 2001 QM_{258}	14.7	X	20.46735	300.36992	68.28861	4.17610	0.0805573	0.20313482	2.8660239	21	11 28.9	18.4
139735 2001 QK_{259}	14.0	X	69.86842	307.95576	290.72549	8.91118	0.0427389	0.19198328	2.9759602	21	8 11.6	18.2
139736 2001 QO_{259}	15.4	X	174.88430	341.96264	284.73968	8.03765	0.2530752	0.21450925	2.7637920	21	—	—
139737 2001 QU_{260}	15.3	X	107.03469	189.57206	204.66424	13.37383	0.1598362	0.21717583	2.7411222	21	1 21.0	19.2
139738 2001 QJ_{261}	15.0	X	108.09468	255.76219	216.57979	12.17406	0.2226085	0.22539401	2.6740805	21	5 13.9	18.9
139739 2001 QW_{262}	15.9	X	67.44124	36.80843	352.64409	5.61976	0.0804345	0.21224290	2.7834319	21	—	—
139740 2001 QB_{265}	15.2	X	267.23096	57.14465	342.57223	9.61483	0.1142259	0.19047978	2.9915995	21	7 21.9	19.5
139741 2001 QA_{266}	15.2	X	108.79827	115.33253	266.31203	13.64473	0.0453752	0.21862078	2.7290307	21	—	—
139742 2001 QJ_{266}	15.4	X	218.81375	89.35897	220.45050	9.07443	0.0643259	0.22720858	2.6598240	21	1 30.3	19.5
139743 2001 QS_{266}	15.4	X	234.91478	70.14128	247.74562	9.45121	0.0937725	0.22956349	2.6416027	21	2 23.5	19.6
139744 2001 QQ_{268}	15.8	X	250.42198	269.58753	130.71137	7.95029	0.2286339	0.23633993	2.5908642	21	6 17.2	19.9
139745 2001 QL_{271}	15.8	X	139.66198	219.91005	98.68664	3.63706	0.0713861	0.21743880	2.7389116	21	—	—
139746 2001 QK_{273}	15.1	X	222.26105	146.32939	131.66090	15.95822	0.0603115	0.22217412	2.6998548	21	—	—
139747 2001 QZ_{273}	15.2	X	295.95246	238.27414	355.25070	13.93633	0.0213191	0.22586386	2.6703707	21	2 6.1	19.0
139748 2001 QQ_{274}	15.5	X	105.88778	295.63953	79.16970	6.45310	0.0921077	0.21841353	2.7307568	21	—	—
139749 2001 QW_{274}	15.9	X	233.16543	257.02275	72.20902	5.17942	0.1436355	0.23035714	2.6355318	21	3 12.6	20.1
139750 2001 QZ_{276}	15.2	X	92.60584	16.36033	37.40077	11.35537	0.1748924	0.21909050	2.7251287	21	2 5.2	18.8
139751 2001 QC_{279}	16.3	X	123.69527	234.79419	111.32177	9.00489	0.2384447	0.21613186	2.7499420	21	—	—
139752 2001 QU_{279}	15.9	X	253.62541	245.91734	69.68135	5.35724	0.2049490	0.23125682	2.6286919	21	3 10.9	20.2
139753 2001 QQ_{280}	15.4	X	96.47015	349.81603	33.85430	10.75844	0.1864022	0.21499600	2.7596190	21	1 1.5	18.9
139754 2001 QC_{281}	15.3	X	63.00985	18.88759	36.35685	12.44463	0.1400131	0.21517974	2.7580478	21	—	—
139755 2001 QF_{281}	15.2	X	80.97077	37.18984	66.86463	15.21550	0.0584465	0.22497400	2.6774076	21	3 12.6	19.0
139756 2001 QE_{282}	14.4	X	176.97674	14.99536	281.97386	16.53664	0.2526996	0.21656643	2.7462620	21	—	—
139757 2001 QF_{283}	14.7	X	171.69904	60.47387	253.11283	14.07780	0.1047981	0.22066097	2.7121833	21	—	—
139758 2001 QR_{283}	15.7	X	101.36419	182.90302	199.59384	2.80043	0.1014432	0.21697354	2.7428257	21	—	—
139759 2001 QN_{284}	13.9	X	139.35612	251.06816	149.19851	27.17023	0.2370856	0.17086580	3.2163696	21	3 25.9	19.4
139760 2001 QW_{285}	15.4	X	161.24082	354.31489	74.51167	15.73868	0.0534582	0.23036528	2.6354698	21	5 3.3	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139761 2001 QA_{286}	15.1	X	207.76591	100.26588	280.93915	13.07490	0.2154709	0.23217249	2.6217758	21	4 11.9	19.9
139762 2001 QM_{287}	15.6	X	188.87008	106.18726	201.61578	5.11318	0.0587097	0.21978013	2.7194251	21	—	—
139763 2001 QT_{287}	16.4	X	302.71133	0.69018	280.15655	1.00667	0.1228297	0.23442575	2.6049487	21	3 26.1	19.9
139764 2001 QU_{287}	15.6	X	21.57257	117.35630	221.23258	2.59013	0.1170655	0.20138425	2.8826088	21	10 26.9	19.1
139765 2001 QN_{288}	15.2	X	252.81389	24.50379	246.36896	13.03438	0.2244881	0.22594404	2.6697389	21	1 10.9	19.9
139766 2001 QB_{290}	15.6	X	48.23678	110.97548	281.49422	2.15253	0.1020993	0.21247806	2.7813778	21	—	—
139767 2001 QF_{290}	15.7	X	246.65849	100.80296	324.66861	7.71144	0.2401073	0.23972729	2.5664003	21	7 15.5	19.6
139768 2001 QW_{291}	15.6	X	19.35452	300.14552	351.27069	4.15106	0.1330796	0.19543420	2.9408238	21	8 22.7	19.1
139769 2001 QG_{292}	15.1	X	130.73098	186.79399	167.26121	9.53831	0.1555943	0.21521762	2.7577242	21	1 2.8	19.2
139770 2001 QV_{293}	15.2	X	89.64272	11.73547	5.44620	12.99121	0.0760577	0.21461085	2.7629197	21	—	—
139771 2001 QB_{294}	16.1	X	182.69866	179.11742	158.47316	12.20162	0.1542949	0.22459758	2.6803983	21	2 1.8	20.5
139772 2001 QZ_{294}	14.6	X	291.63564	294.25010	346.57799	12.76150	0.1866288	0.18016502	3.1047198	21	3 10.7	19.1
139773 2001 QQ_{296}	15.3	X	127.51128	356.98800	16.32961	13.62518	0.2172551	0.21598559	2.7511834	21	2 5.5	19.6
139774 2001 QJ_{297}	15.0	X	222.94316	175.98107	217.79613	1.00574	0.1792575	0.18139147	3.0907091	21	5 19.7	20.0
139775 2001 QG_{298}	6.8	X	15.51882	208.95729	162.43654	6.48182	0.1976202	0.00396147	39.5577894	21	10 30.6	21.9
139776 2001 QS_{309}	15.0	X	230.06029	9.09509	91.93510	3.19288	0.0567265	0.19540175	2.9411494	21	8 31.4	19.2
139777 2001 QS_{317}	15.7	X	269.21749	72.54127	139.43929	5.89756	0.0125551	0.21984305	2.7189061	21	—	—
139778 2001 QZ_{327}	14.9	X	180.85276	7.15845	210.15560	19.19273	0.0851461	0.20520423	2.8467228	21	11 26.1	19.3
139779 2001 QR_{328}	15.0	X	93.59209	314.04157	40.93656	13.26200	0.1944974	0.21134404	2.7913184	21	—	—
139780 2001 QA_{329}	16.0	X	74.64478	90.72404	323.74433	8.20646	0.1490669	0.21777370	2.7361029	21	1 1.5	19.1
139781 2001 QG_{329}	16.3	X	170.24224	71.67740	170.95122	3.74939	0.0379576	0.20856549	2.8160546	21	12 17.9	20.4
139782 2001 QR_{329}	16.2	X	302.37702	67.81683	162.80927	4.52424	0.0295837	0.22551872	2.6730945	21	2 3.9	19.9
139783 2001 QW_{330}	15.3	X	54.15289	331.02083	120.40760	10.49389	0.2014166	0.21470759	2.7620898	21	1 19.4	17.8
139784 2001 RW	15.4	X	216.06441	128.85354	191.26711	13.26760	0.0977195	0.22601109	2.6692108	21	2 8.9	19.7
139785 2001 RL_{3}	15.2	X	291.20947	73.46816	201.03828	15.29640	0.2191522	0.23264608	2.6182165	21	2 16.0	19.4
139786 2001 RU_{3}	15.6	X	271.52953	298.93094	334.05796	9.40794	0.1557647	0.22906137	2.6454617	21	2 7.1	19.5
139787 2001 RY_{3}	15.5	X	59.60358	277.56491	166.19509	12.94706	0.1394681	0.21897602	2.7260784	21	1 11.4	18.7
139788 2001 RA_{4}	14.7	X	48.88312	97.51777	313.09331	12.55929	0.2052306	0.21333085	2.7739605	21	—	—
139789 2001 RK_{5}	15.4	X	72.37615	91.73022	218.64088	5.09592	0.0717480	0.20366142	2.8610813	21	11 21.9	19.5
139790 2001 RH_{6}	15.1	X	150.33433	114.61010	323.74266	10.13471	0.0689635	0.18092676	3.0959992	21	4 28.1	19.9
139791 2001 RR_{6}	15.2	X	55.90969	131.20864	178.59205	1.55271	0.0843773	0.19973562	2.8984493	21	11 2.2	19.0
139792 2001 RU_{7}	15.6	X	123.53139	323.82771	310.69635	11.72217	0.2634451	0.21118497	2.7927199	21	12 12.9	20.7
139793 2001 RX_{7}	15.6	X	329.94775	118.28324	217.07798	4.76751	0.1097741	0.19429895	2.9522678	21	7 24.7	19.3
139794 2001 RJ_{8}	15.4	X	326.61245	340.42749	335.23325	9.60830	0.0960374	0.19029196	2.9935678	21	6 25.8	19.3
139795 2001 RL_{8}	14.5	X	121.85736	170.09571	334.00639	8.65456	0.0661446	0.18617825	3.0375032	21	6 21.5	19.0
139796 2001 RN_{8}	15.6	X	335.08905	55.45263	318.11681	1.17720	0.1363299	0.19778065	2.9175178	21	9 24.8	18.7
139797 2001 RL_{10}	15.1	X	186.57229	160.63703	287.05564	21.54039	0.1090501	0.23576607	2.5950667	21	6 23.5	19.2
139798 2001 RO_{10}	17.0	X	306.47054	290.58189	186.96196	16.88351	0.1364167	0.40677936	1.8039733	21	—	—
139799 2001 RL_{11}	13.3	X	221.12519	295.80377	18.83656	10.94409	0.2246296	0.12423045	3.9778708	21	2 23.3	19.9
139800 2001 RV_{12}	15.5	X	345.54963	262.20703	195.77709	6.42172	0.0288326	0.21275928	2.7789264	21	—	—
139801 2001 RL_{14}	16.0	X	62.58747	158.90187	243.14909	3.48110	0.0646567	0.21359852	2.7716426	21	—	—
139802 2001 RD_{15}	15.6	X	86.33401	256.75980	190.01072	21.60667	0.0487465	0.22399044	2.6852397	21	2 11.2	19.5
139803 2001 RP_{15}	15.4	X	16.79464	298.79571	163.39748	5.66437	0.0211150	0.21711387	2.7416436	21	—	—
139804 2001 RH_{16}	16.3	X	44.65731	116.22369	214.69167	8.41259	0.1405644	0.20454868	2.8528018	21	11 23.5	20.1
139805 2001 RT_{16}	15.0	X	56.70495	78.55898	158.53763	2.82209	0.0897281	0.19041945	2.9922314	21	7 31.2	19.0
139806 2001 RB_{17}	15.6	X	233.78983	339.54223	144.62621	2.64179	0.1425171	0.24594036	2.5229938	21	9 27.8	19.1
139807 2001 RJ_{17}	14.5	X	148.76482	79.56102	21.07186	10.83880	0.0565235	0.18218538	3.0817237	21	5 25.1	19.2
139808 2001 RP_{18}	16.2	X	25.66265	88.15965	318.95749	5.45006	0.1255990	0.25991806	2.4317098	21	—	—
139809 2001 RC_{20}	16.0	X	76.80382	159.70741	255.39663	2.16490	0.0821439	0.21854110	2.7296940	21	—	—
139810 2001 RH_{21}	16.0	X	96.84591	355.32984	1.87048	4.24889	0.0921779	0.21418925	2.7665441	21	—	—
139811 2001 RP_{23}	16.0	X	164.44276	331.50271	359.59261	5.03761	0.1649111	0.22043495	2.7140369	21	1 11.7	20.2
139812 2001 RO_{24}	16.1	X	182.35247	324.35089	312.99832	1.09646	0.1759924	0.21736706	2.7395142	21	—	—
139813 2001 RR_{24}	15.8	X	80.88595	356.56420	342.52620	3.35615	0.1061648	0.20955373	2.8071942	21	—	—
139814 2001 RS_{24}	15.9	X	261.01616	256.14920	350.23821	0.82882	0.0106119	0.22159001	2.7045973	21	1 7.5	19.4
139815 2001 RV_{24}	15.2	X	269.54964	223.14260	347.01515	5.19613	0.0402311	0.21795536	2.7345824	21	—	—
139816 2001 RY_{24}	15.6	X	326.57840	123.30199	337.29143	3.74953	0.0713545	0.20929908	2.8094706	21	—	—
139817 2001 RK_{25}	15.2	X	195.05850	266.36609	178.48883	9.78297	0.0953914	0.18847657	3.0127596	21	6 27.6	20.0
139818 2001 RN_{26}	15.9	X	104.46197	329.36292	7.65848	3.50360	0.0996134	0.21239976	2.7820614	21	—	—
139819 2001 RG_{27}	15.9	X	265.63615	268.25621	108.25281	1.49307	0.2601175	0.18882663	3.0090349	21	5 30.5	20.6
139820 2001 RD_{28}	15.7	X	119.50137	24.97007	262.50968	1.21678	0.0367593	0.20886185	2.8133902	21	12 14.9	19.6
139821 2001 RM_{28}	16.3	X	114.20540	165.85428	146.97392	3.47398	0.1388346	0.21183704	2.7869860	21	—	—
139822 2001 RY_{28}	16.6	X	259.28222	96.78727	201.92731	1.92725	0.1230973	0.22968887	2.6406414	21	2 26.9	20.5
139823 2001 RA_{29}	15.8	X	347.81554	121.34516	290.63215	0.91563	0.0512237	0.20586720	2.8406078	21	12 5.7	19.4
139824 2001 RP_{30}	15.6	X	79.74799	20.60664	356.76712	3.14413	0.1011297	0.21290354	2.7776709	21	—	—
139825 2001 RQ_{31}	15.4	X	290.33380	156.35751	161.56736	13.64453	0.1673223	0.23935471	2.5690629	21	4 25.6	19.1
139826 2001 RJ_{32}	15.2	X	352.00977	202.45437	315.57481	13.47352	0.0867558	0.22352336	2.6889792	21	1 3.0	18.7
139827 2001 RV_{32}	15.7	X	115.31229	202.39193	177.91165	14.03111	0.1885674	0.21913930	2.7247241	21	1 19.2	19.6
139828 2001 RR_{33}	15.7	X	101.77209	187.88603	174.91080	7.38077	0.1549129	0.21573137	2.7533442	21	—	—
139829 2001 RG_{34}	15.1	X	25.85136	248.34277	189.98347	7.52729	0.2061755	0.21334437	2.7738433	21	—	—
139830 2001 RZ_{34}	14.9	X	164.94416	211.93923	172.78990	11.72786	0.1517079	0.22663032	2.6643466	21	3 14.8	19.1
139831 2001 RH_{35}	15.6	X	64.89291	195.20830	193.84394	4.87425	0.0442917	0.21428226	2.7657435	21	—	—
139832 2001 RL_{35}	15.6	X	345.96474	93.08777	286.26723	3.55342	0.2000449	0.20046411	2.8914230	21	10 24.2	18.4
139833 2001 RT_{35}	15.2	X	325.44696	71.77196	317.78252	8.56263	0.1027626	0.19945032	2.9012126	21	9 27.9	18.8
139834 2001 RD_{37}	15.7	X	139.19643	119.96204	198.67847	5.39805	0.0231411	0.21574462	2.7532315	21	—	—
139835 2001 RJ_{37}	16.2	X	221.69656	21.58460	272.77623	3.07755	0.0510799	0.22382778	2.6865405	21	1 17.9	20.0
139836 2001 RP_{38}	15.4	X	222.51488	233.92476	168.47744	12.33350	0.0790455	0.18670363	3.0318023	21	6 6.6	20.2
139837 2001 RH_{39}	15.5	X	38.95697	310.75861	169.20614	16.59850	0.1263058	0.22071229	2.7117628	21	1 22.2	18.8
139838 2001 RR_{39}	15.0	X	56.18070	267.95511	239.87574	11.72812	0.2115597	0.22642079	2.6659900	21	4 10.3	17.8
139839 2001 RO_{41}	15.8	X	128.23893	19.69551	279.63290	2.64151	0.0782864	0.21015739	2.8018160	21	—	—
139840 2001 RD_{43}	16.0	X	84.55897	178.03092	202.37565	14.07539	0.2070855	0.21322350	2.7748915	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139841 2001 RG_{43}	15.9	X	277.98876	60.61595	289.14939	10.09552	0.3102814	0.23802602	2.5786145	21	4 27.0	20.1
139842 2001 RV_{43}	15.1	X	331.25498	358.89715	341.75566	9.90287	0.1259712	0.19341521	2.9612538	21	8 6.0	18.6
139843 2001 RH_{44}	15.5	X	234.08617	358.27682	67.78365	5.15605	0.1543513	0.23471182	2.6028316	21	7 11.3	19.4
139844 2001 RF_{48}	15.5	X	64.88026	36.98795	358.36197	3.19235	0.0965340	0.21115193	2.7930112	21	—	—
139845 2001 RR_{50}	15.3	X	142.57473	342.34576	107.84740	4.18805	0.2568496	0.23061058	2.6336005	21	5 22.1	19.7
139846 2001 RC_{51}	15.8	X	11.73418	305.51350	163.01483	8.46209	0.0682436	0.21651570	2.7466908	21	—	—
139847 2001 RN_{53}	14.8	X	260.87959	339.83111	68.35547	7.47540	0.1752470	0.19113142	2.9847961	21	7 15.1	19.2
139848 2001 RH_{54}	15.7	X	151.95312	307.33512	22.41226	6.16960	0.0544637	0.21577704	2.7529557	21	—	—
139849 2001 RM_{54}	15.8	X	305.30403	192.87569	172.77580	10.32384	0.1222079	0.19162831	2.9796341	21	7 24.4	19.8
139850 2001 RX_{55}	14.9	X	296.58284	322.72977	84.83323	3.24278	0.0573381	0.19726516	2.9225982	21	9 18.2	18.7
139851 2001 RC_{57}	16.2	X	51.56321	277.53133	149.11435	4.07558	0.1627334	0.21407175	2.7675564	21	—	—
139852 2001 RD_{57}	15.7	X	341.81437	256.27383	139.11900	2.93365	0.0931583	0.20150422	2.8814645	21	11 7.3	19.1
139853 2001 RQ_{58}	15.5	X	127.21455	350.70658	47.31140	4.45614	0.1461420	0.22115114	2.7081742	21	2 22.3	19.4
139854 2001 RP_{59}	14.9	X	213.85762	21.36756	83.52057	4.94502	0.0891502	0.19161897	2.9797309	21	8 14.4	19.3
139855 2001 RK_{60}	15.8	X	76.18332	326.86367	70.52308	5.34526	0.0769239	0.21411323	2.7671989	21	—	—
139856 2001 RM_{60}	15.2	X	150.93444	302.39006	163.12072	16.59146	0.0892815	0.18336056	3.0685422	21	6 9.5	20.2
139857 2001 RP_{61}	15.0	X	102.78446	174.61157	358.83528	8.84410	0.0484493	0.18898460	3.0073578	21	7 4.5	19.4
139858 2001 RW_{61}	15.7	X	261.93726	31.04280	81.08018	2.91373	0.0308127	0.20174618	2.8791603	21	10 28.2	19.6
139859 2001 RR_{64}	14.7	X	154.36680	144.50542	316.92623	8.91661	0.0489050	0.18350713	3.0669081	21	6 2.4	19.4
139860 2001 RC_{65}	14.8	X	13.40321	126.29177	213.21927	13.06297	0.0463612	0.19775805	2.9177401	21	10 6.3	18.7
139861 2001 RP_{65}	15.4	X	7.68576	145.75453	253.08276	5.32979	0.0744208	0.20418900	2.8561510	21	12 18.6	19.0
139862 2001 RQ_{65}	15.3	X	44.35295	42.67118	331.18889	8.46460	0.1424721	0.20604878	2.8389388	21	—	—
139863 2001 RJ_{66}	14.8	X	114.94517	304.64879	248.69907	5.64027	0.0715020	0.19020625	2.9944669	21	8 13.3	19.3
139864 2001 RW_{66}	14.9	X	238.83169	12.59146	325.88243	9.11956	0.1211463	0.17940049	3.1135342	21	3 29.2	19.8
139865 2001 RN_{67}	15.7	X	62.22906	157.61009	253.06894	3.91368	0.1495091	0.21206740	2.7849674	21	—	—
139866 2001 RU_{67}	15.2	X	70.93627	165.05695	232.87390	4.18689	0.0662582	0.21231917	2.7827653	21	—	—
139867 2001 RB_{68}	15.7	X	186.12181	67.05271	248.00935	4.09996	0.1577752	0.21913821	2.7247332	21	1 10.9	20.1
139868 2001 RX_{69}	15.0	X	204.55150	30.31182	325.30017	4.61092	0.1420326	0.17651730	3.1473463	21	3 19.3	20.1
139869 2001 RE_{70}	16.2	X	233.09713	115.98292	266.58928	3.38397	0.1481694	0.23275953	2.6173657	21	5 14.4	20.3
139870 2001 RP_{73}	14.8	X	30.67893	356.03669	224.32104	10.73876	0.1016293	0.18391981	3.0623186	21	6 1.1	18.6
139871 2001 RM_{74}	14.4	X	278.03042	66.63992	206.67647	21.03492	0.2049230	0.17601782	3.1532975	21	2 9.5	19.7
139872 2001 RL_{77}	14.6	X	337.68964	330.74427	54.10731	12.20322	0.2713605	0.19466739	2.9485415	21	10 18.2	17.1
139873 2001 RD_{78}	14.6	X	322.63045	152.57854	359.83996	7.95982	0.1564509	0.20993129	2.8038274	21	—	—
139874 2001 RO_{78}	14.7	X	250.55767	319.72208	41.37525	17.52754	0.2382082	0.18179368	3.0861488	21	4 30.6	19.7
139875 2001 RQ_{82}	15.4	X	284.62947	295.43278	296.28809	8.41903	0.0293538	0.22242689	2.6978090	21	1 15.7	19.2
139876 2001 RV_{82}	15.4	X	55.89512	256.31085	200.92657	8.59821	0.1790452	0.21877048	2.7277856	21	1 25.2	18.4
139877 2001 RO_{83}	15.2	X	282.15045	172.00645	183.74431	10.75593	0.1252577	0.18874442	3.0099086	21	6 10.4	19.6
139878 2001 RT_{84}	15.2	X	229.07345	93.45052	337.85125	10.05198	0.0626145	0.19085938	2.9876316	21	7 23.2	19.7
139879 2001 RK_{85}	14.8	X	303.65347	330.12767	351.47793	12.20524	0.1472667	0.18808184	3.0169734	21	5 17.5	19.0
139880 2001 RL_{85}	16.4	X	345.01428	248.12946	180.09791	6.47132	0.1392728	0.25462088	2.4653204	21	—	—
139881 2001 RX_{85}	15.3	X	181.83469	97.53355	177.46410	12.31105	0.1286980	0.21443352	2.7644428	21	—	—
139882 2001 RB_{86}	15.1	X	225.11498	194.88485	181.51859	9.97835	0.1072310	0.18249078	3.0782846	21	5 6.7	19.9
139883 2001 RO_{86}	14.6	X	198.48561	237.63627	186.01757	3.11797	0.0732979	0.18426832	3.0584562	21	6 6.1	19.1
139884 2001 RB_{87}	15.2	X	66.90395	173.58350	202.79215	6.93744	0.0662689	0.20977627	2.8052085	21	—	—
139885 2001 RE_{87}	14.9	X	300.07384	37.90719	349.06671	9.78430	0.1020597	0.19276766	2.9678818	21	8 21.1	18.7
139886 2001 RG_{88}	15.5	X	264.06909	330.50232	99.22239	2.64500	0.2782181	0.19008755	2.9957135	21	8 1.4	20.1
139887 2001 RS_{88}	15.2	X	17.38580	253.51751	107.43387	3.07028	0.0573733	0.20112779	2.8850587	21	11 12.6	18.9
139888 2001 RC_{89}	15.0	X	13.76678	216.22211	137.29594	2.99197	0.0682868	0.19992084	2.8966588	21	10 30.3	18.7
139889 2001 RM_{91}	15.6	X	93.01704	244.54687	137.25943	5.23397	0.1579656	0.21421458	2.7663260	21	—	—
139890 2001 RU_{91}	15.5	X	49.86619	183.13550	161.18433	2.27037	0.0682892	0.20440163	2.8541698	21	12 5.9	19.3
139891 2001 RT_{92}	14.9	X	181.21498	157.42802	223.47756	4.35543	0.0668382	0.17590242	3.1546766	21	3 26.1	19.8
139892 2001 RK_{93}	15.6	X	2.73534	290.72155	50.89608	2.39402	0.0901997	0.19658689	2.9293169	21	9 29.2	19.1
139893 2001 RT_{93}	14.4	X	19.14733	239.97669	101.36638	3.31580	0.0881644	0.19884840	2.9070644	21	10 24.6	18.0
139894 2001 RS_{94}	15.0	X	336.07038	120.25938	284.15659	3.98611	0.0647135	0.20035298	2.8924920	21	11 7.3	18.7
139895 2001 RX_{94}	14.9	X	217.37363	37.21690	333.36678	8.73965	0.0852894	0.18040507	3.1019649	21	4 17.2	19.7
139896 2001 RA_{95}	14.6	X	17.97138	309.25217	335.90408	8.16296	0.0664210	0.19130698	2.9829696	21	8 6.4	18.3
139897 2001 RK_{95}	15.6	X	342.68106	231.85807	131.12323	3.60229	0.0815946	0.19901499	2.9054418	21	9 26.5	19.1
139898 2001 RN_{95}	16.1	X	140.09750	279.66612	136.44022	1.04586	0.1504808	0.22696477	2.6617284	21	3 28.9	19.9
139899 2001 RS_{95}	15.4	X	143.44225	183.90173	162.87090	3.88641	0.2022326	0.21687328	2.7436709	21	1 12.9	19.6
139900 2001 RP_{98}	16.4	X	247.21028	60.43746	188.97154	2.76528	0.0243856	0.21645024	2.7472446	21	—	—
139901 2001 RE_{99}	15.4	X	324.98662	168.44651	154.05630	2.64272	0.1005940	0.19277700	2.9677859	21	7 1.0	19.1
139902 2001 RH_{100}	15.5	X	313.93739	42.46292	122.86887	4.36453	0.0329941	0.21795483	2.7345869	21	—	—
139903 2001 RS_{100}	15.5	X	97.57512	277.85135	30.58696	5.58302	0.1052964	0.20885425	2.8134584	21	12 21.3	19.9
139904 2001 RV_{102}	15.6	X	160.78781	186.99744	116.42324	4.30939	0.0741124	0.21594003	2.7515703	21	—	—
139905 2001 RA_{104}	15.5	X	229.90742	265.57800	10.37604	14.41400	0.0883563	0.22211290	2.7003508	21	1 6.8	19.9
139906 2001 RZ_{104}	15.8	X	250.00666	259.36786	100.46206	4.69642	0.1761649	0.23474260	2.6026041	21	5 2.2	19.8
139907 2001 RR_{105}	15.4	X	63.80492	316.26242	163.48982	11.54454	0.1993821	0.22518765	2.6757139	21	3 18.2	18.1
139908 2001 RD_{107}	15.0	X	152.37357	306.35861	22.05033	7.79424	0.0936428	0.21681915	2.7441275	21	—	—
139909 2001 RH_{107}	15.6	X	166.49111	301.83402	25.19018	7.46598	0.0889998	0.21854633	2.7296504	21	1 1.9	19.7
139910 2001 RJ_{108}	16.1	X	250.74755	215.26950	32.52007	1.87128	0.0500619	0.22100512	2.7093669	21	—	—
139911 2001 RU_{108}	15.9	X	105.29770	38.87510	3.78953	4.92283	0.0357426	0.22086657	2.7104999	21	1 15.2	19.6
139912 2001 RW_{108}	16.1	X	150.32861	168.95298	145.95131	2.91189	0.0564499	0.21585095	2.7523272	21	—	—
139913 2001 RB_{109}	15.4	X	35.32131	304.02233	168.65669	14.37709	0.0633241	0.22028903	2.7152353	21	1 7.7	19.0
139914 2001 RV_{110}	16.1	X	167.85377	163.91571	142.54737	5.50226	0.1201812	0.21767110	2.7369626	21	—	—
139915 2001 RO_{117}	15.3	X	182.66451	234.65287	354.70661	3.67962	0.1449318	0.20961460	2.8066507	21	12 8.2	19.8
139916 2001 RB_{118}	15.2	X	57.09058	304.37401	19.00072	2.05352	0.0650141	0.20357667	2.8618754	21	11 17.7	19.1
139917 2001 RM_{118}	15.5	X	65.46923	236.04981	30.00157	2.05443	0.0471996	0.19666604	2.9285308	21	9 14.4	19.3
139918 2001 RU_{120}	15.2	X	191.73055	100.27882	6.02474	9.68947	0.0630401	0.19025028	2.9940049	21	7 25.5	19.8
139919 2001 RF_{121}	15.0	X	179.56843	64.62434	10.63686	10.08327	0.0461496	0.18498768	3.0505221	21	5 27.9	19.6
139920 2001 RQ_{122}	15.7	X	12.07597	180.28335	138.13501	3.20134	0.0754151	0.19637264	2.9314471	21	9 11.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139921 2001 RR_{123}	16.1	X	57.44278	356.22948	62.71581	1.39467	0.1332482	0.21412575	2.7670911	21	—	—
139922 2001 RV_{123}	15.0	X	351.52602	32.68565	72.90707	1.55115	0.0251924	0.21289613	2.7777354	21	—	—
139923 2001 RX_{124}	15.6	X	310.25268	354.87188	25.70743	3.72276	0.1146589	0.19475125	2.9476950	21	8 26.2	19.1
139924 2001 RQ_{125}	15.1	X	243.56486	332.50309	109.92591	4.23720	0.2242725	0.19061021	2.9902347	21	8 2.9	19.9
139925 2001 RV_{126}	15.7	X	51.80366	4.48436	66.84805	5.43083	0.0865246	0.21567973	2.7537837	21	—	—
139926 2001 RO_{128}	15.9	X	139.85961	349.01954	91.53479	3.33432	0.0498081	0.22948172	2.6422302	21	4 18.6	19.5
139927 2001 RC_{129}	16.0	X	99.15955	298.44114	149.66632	5.48938	0.0702938	0.22442260	2.6817914	21	3 10.3	19.4
139928 2001 RL_{129}	15.9	X	198.84842	281.10936	19.45373	5.05190	0.0949467	0.22013852	2.7164728	21	1 3.8	20.1
139929 2001 RA_{130}	15.2	X	145.35429	358.62370	165.66354	11.66814	0.0826620	0.19161795	2.9797415	21	8 12.7	19.8
139930 2001 RB_{131}	15.2	X	293.77745	45.94338	56.79114	2.86528	0.0223463	0.20434490	2.8546981	21	11 26.8	19.0
139931 2001 RL_{131}	15.5	X	139.78784	153.48684	154.13034	7.13328	0.0447642	0.21210732	2.7846179	21	—	—
139932 2001 RT_{131}	14.8	X	320.97196	100.54616	160.74211	9.69593	0.0312295	0.18099699	3.0951983	21	4 17.4	19.1
139933 2001 RH_{132}	15.1	X	37.93409	208.38990	96.16641	3.29448	0.0402526	0.19748916	2.9203879	21	9 27.7	19.0
139934 2001 RT_{132}	15.2	X	81.43154	84.67021	155.96813	16.86945	0.0358523	0.19452592	2.9499709	21	8 30.8	19.3
139935 2001 RW_{133}	15.2	X	308.39117	337.09887	89.36958	3.10382	0.0527523	0.20064633	2.8896721	21	10 29.7	18.9
139936 2001 RX_{133}	15.5	X	349.61554	194.96164	153.92906	6.79151	0.0838889	0.19641205	2.9310550	21	9 17.9	19.0
139937 2001 RO_{134}	15.9	X	113.36326	317.79485	114.10448	5.16517	0.1519423	0.22278332	2.6949307	21	3 21.6	19.6
139938 2001 RQ_{134}	15.1	X	276.09962	319.47818	121.86280	6.08099	0.0789189	0.19743189	2.9209527	21	10 1.9	19.1
139939 2001 RX_{134}	14.9	X	229.36121	294.73187	149.58007	11.55682	0.0418101	0.19159336	2.9799964	21	8 8.5	19.2
139940 2001 RR_{135}	15.9	X	52.44582	262.86060	158.63046	9.59531	0.1595809	0.21277942	2.7787510	21	—	—
139941 2001 RM_{136}	15.0	X	62.86262	304.89031	84.99136	5.28312	0.1230586	0.21089193	2.7953063	21	—	—
139942 2001 RN_{136}	15.5	X	252.59995	274.58468	89.81936	5.21970	0.2271687	0.18537657	3.0462543	21	5 8.3	20.4
139943 2001 RQ_{136}	15.3	X	72.32602	69.90031	29.64641	12.23244	0.0360402	0.22213016	2.7002110	21	2 17.6	19.0
139944 2001 RZ_{136}	15.2	X	195.87545	136.80832	152.94602	10.12172	0.1325574	0.21805195	2.7337748	21	—	—
139945 2001 RG_{137}	16.0	X	5.59391	71.60248	22.70373	6.79841	0.1341972	0.21020210	2.8014186	21	—	—
139946 2001 RR_{138}	15.4	X	340.38583	179.96828	3.05696	11.70705	0.1300062	0.22330896	2.6907001	21	1 13.8	19.0
139947 2001 RT_{139}	15.9	X	91.71672	263.43600	135.07874	4.52138	0.1093241	0.21649272	2.7468852	21	1 1.3	19.3
139948 2001 RU_{140}	15.8	X	317.29176	160.40676	162.95706	10.69779	0.1782255	0.19057295	2.9906245	21	6 10.5	19.6
139949 2001 RL_{141}	15.9	X	238.32076	268.92398	86.09921	5.18749	0.1406990	0.23136918	2.6278407	21	4 18.1	19.9
139950 2001 RP_{141}	15.6	X	60.81042	11.79902	46.20768	10.09579	0.1483605	0.21300522	2.7767869	21	—	—
139951 2001 RA_{142}	14.5	X	223.39327	108.62245	309.10196	23.43164	0.0949681	0.18496943	3.0507227	21	6 27.8	19.4
139952 2001 RS_{142}	14.7	X	319.37468	247.38120	130.12517	15.93677	0.1131575	0.19211951	2.9745531	21	9 7.6	18.4
139953 2001 RF_{145}	14.5	X	184.18175	10.57385	29.92007	11.66737	0.0959809	0.18140238	3.0905853	21	4 22.9	19.3
139954 2001 RW_{145}	15.6	X	334.52070	180.86597	314.62613	11.95293	0.0573938	0.21546920	2.7555772	21	—	—
139955 2001 RY_{147}	15.2	X	150.45072	266.50462	113.12959	13.76712	0.2113715	0.22447929	2.6813398	21	3 4.0	19.6
139956 2001 RD_{152}	15.5	X	102.32832	348.67187	39.06563	14.40910	0.0884355	0.21651862	2.7466662	21	—	—
139957 2001 RG_{153}	15.5	X	265.18381	354.69371	83.79906	6.37626	0.1039577	0.24469281	2.5315621	21	9 15.1	18.8
139958 2001 RL_{153}	15.5	X	110.63259	279.40482	70.71214	7.52051	0.0634495	0.21311611	2.7758236	21	—	—
139959 2001 RT_{153}	15.9	X	227.73665	171.51919	282.45639	11.80315	0.2221886	0.24162095	2.5529736	21	8 1.0	20.1
139960 2001 RR_{154}	16.2	X	261.71978	240.73450	47.60170	9.71845	0.1637883	0.22785543	2.6547877	21	2 18.8	20.5
139961 2001 SR_{3}	16.0	X	112.42760	114.50964	241.70965	10.58731	0.1710016	0.21545613	2.7556887	21	—	—
139962 2001 SG_{4}	15.1	X	297.47794	152.75999	191.05443	10.79795	0.1177842	0.18951709	3.0017220	21	6 16.0	19.3
139963 2001 SD_{6}	15.9	X	70.52601	256.21261	202.12266	2.54107	0.1759483	0.22126761	2.7072237	21	2 23.5	18.9
139964 2001 SH_{7}	15.1	X	100.33311	347.30011	136.74259	1.76690	0.1308270	0.18147446	3.0897668	21	5 10.3	19.4
139965 2001 SN_{10}	15.8	X	191.45951	321.14686	9.86131	2.07420	0.0622103	0.22299826	2.6931987	21	1 30.9	19.7
139966 2001 SQ_{11}	15.6	X	343.83845	304.69949	168.22991	7.08697	0.2176816	0.21048063	2.7989467	21	—	—
139967 2001 SF_{12}	15.9	X	180.80928	83.24019	210.19338	8.59014	0.1207303	0.21852994	2.7297870	21	—	—
139968 2001 SQ_{12}	16.0	X	295.49983	188.40762	175.34249	13.57097	0.1889463	0.19149618	2.9810045	21	6 27.9	20.2
139969 2001 SB_{13}	15.6	X	25.70491	273.49034	169.07889	5.09745	0.1382977	0.21248467	2.7813201	21	—	—
139970 2001 SM_{13}	15.4	X	124.10157	19.77229	358.65902	4.78106	0.1231111	0.21860983	2.7291218	21	1 21.8	19.2
139971 2001 SM_{14}	15.2	X	344.71268	59.38072	166.47452	1.98846	0.1129268	0.18004412	3.1061094	21	3 25.1	19.1
139972 2001 SQ_{15}	15.8	X	128.82087	193.84271	135.35391	2.66068	0.2314916	0.21442499	2.7645161	21	—	—
139973 2001 SR_{15}	15.0	X	97.68412	0.02374	12.50597	7.79423	0.1413818	0.21399193	2.7682446	21	—	—
139974 2001 SU_{16}	15.2	X	355.04811	303.96986	41.22906	2.33373	0.0478853	0.19640022	2.9311727	21	9 20.2	19.0
139975 2001 SH_{18}	15.3	X	91.76829	331.56867	21.92641	6.33812	0.0740907	0.21083048	2.7958495	21	—	—
139976 2001 SX_{18}	15.0	X	250.68777	43.92252	13.76925	9.00853	0.0941883	0.19005980	2.9960051	21	7 28.2	19.4
139977 2001 SP_{19}	15.7	X	350.31295	238.21063	167.20855	2.32716	0.0760732	0.20327246	2.8647299	21	12 2.3	19.1
139978 2001 SO_{20}	16.0	X	102.44661	310.17024	51.04769	2.06594	0.1478522	0.21227392	2.7831608	21	—	—
139979 2001 SH_{23}	16.2	X	13.51330	42.55390	5.84981	1.68634	0.0685715	0.20664296	2.8334940	21	—	—
139980 2001 SS_{23}	15.5	X	285.72037	359.98448	21.57310	1.70505	0.1124331	0.19079243	2.9883305	21	7 20.8	19.5
139981 2001 ST_{25}	15.5	X	307.24230	148.86360	180.04779	9.83510	0.1030422	0.18807025	3.0170973	21	6 12.9	19.6
139982 2001 SM_{26}	15.5	X	53.21740	353.05194	10.32407	5.93353	0.2142600	0.20631567	2.8364899	21	—	—
139983 2001 SA_{28}	15.5	X	271.46449	285.52582	152.86248	2.51471	0.1664268	0.19352862	2.9600968	21	9 5.7	19.4
139984 2001 SQ_{28}	16.3	X	183.91486	288.62444	160.57260	4.10278	0.1450502	0.23371116	2.6102559	21	6 21.2	20.5
139985 2001 SS_{29}	15.3	X	123.19574	274.12390	16.80870	5.08720	0.0825035	0.20690716	2.8310815	21	12 24.9	19.6
139986 2001 SE_{31}	15.6	X	43.13801	272.77851	75.26888	3.06140	0.0823075	0.20283511	2.8688464	21	12 3.5	19.3
139987 2001 SJ_{32}	15.7	X	317.41142	26.12973	51.28731	1.44982	0.1396289	0.20068876	2.8892648	21	11 19.9	19.0
139988 2001 SR_{32}	15.5	X	310.00988	279.72253	184.60623	14.72689	0.1116734	0.20347725	2.8628074	21	12 15.8	19.2
139989 2001 SJ_{33}	15.6	X	350.67448	134.35795	183.56072	9.58825	0.1734830	0.19291307	2.9663903	21	8 3.3	18.9
139990 2001 SS_{33}	15.8	X	21.67727	87.63402	17.27416	5.21911	0.0259686	0.21459322	2.7630710	21	—	—
139991 2001 SU_{35}	15.2	X	265.52213	19.51657	26.35590	11.13528	0.0735350	0.18978100	2.9989385	21	8 4.7	19.6
139992 2001 SD_{36}	15.0	X	165.91862	356.00244	27.50760	9.15256	0.1121193	0.17399106	3.1777381	21	3 20.0	19.9
139993 2001 SN_{36}	16.0	X	230.69083	160.58327	168.45441	3.26283	0.1136522	0.22634870	2.6665561	21	3 8.9	19.9
139994 2001 SQ_{36}	15.1	X	153.29148	86.74921	23.49221	3.31612	0.1903304	0.18069563	3.0986388	21	6 21.2	20.3
139995 2001 ST_{36}	15.0	X	245.28025	358.45698	19.79108	10.51067	0.0664031	0.18414714	3.0597978	21	5 30.5	19.6
139996 2001 SC_{37}	16.4	X	221.58056	28.23449	36.62226	3.22585	0.1328624	0.23557197	2.5964919	21	6 28.0	20.3
139997 2001 SO_{38}	15.9	X	176.59802	247.52160	38.29980	4.34884	0.0705000	0.21239319	2.7821188	21	—	—
139998 2001 SK_{39}	14.6	X	213.28656	7.66139	29.39506	13.42782	0.1940485	0.18137182	3.0909324	21	5 12.1	19.9
139999 2001 SY_{40}	15.4	X	343.81862	299.27933	80.87455	3.02233	0.1059673	0.19733765	2.9218825	21	10 21.0	18.9
140000 2001 SN_{41}	15.4	X	310.16563	172.23041	233.82615	1.65153	0.0363385	0.19776059	2.9177151	21	10 5.0	19.1