Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76001 2000 DB_{18}	14.5	X	332.46102	205.94717	334.14687	15.59134	0.0884678	0.18455955	3.0552379	21	1 15.0	18.8
76002 2000 DR_{19}	15.2	X	174.65129	126.34865	9.69816	1.70634	0.0075603	0.20564818	2.8426243	21	8 11.6	19.1
76003 2000 DD_{20}	15.4	X	85.98487	324.09577	237.09422	1.05565	0.0091190	0.20263402	2.8707441	21	7 11.9	19.3
76004 2000 DG_{20}	15.2	X	212.70639	229.83685	189.98810	1.70579	0.0567901	0.20189231	2.8777707	21	6 17.3	19.3
76005 2000 DK_{20}	15.0	X	109.98033	135.10919	268.81095	2.82173	0.0434048	0.18647611	3.0342679	21	1 29.0	19.2
76006 2000 DX_{21}	16.0	X	112.60451	349.23679	244.64100	1.25034	0.1660470	0.25385042	2.4703062	21	10 16.7	19.7
76007 2000 DT_{22}	15.3	X	27.83215	327.99232	326.98318	1.21268	0.0388498	0.20664853	2.8334431	21	8 30.9	19.0
76008 2000 DV_{22}	16.2	X	57.84877	92.98458	335.77873	2.86509	0.1081306	0.22968207	2.6406935	21	—	—
76009 2000 DY_{23}	15.1	X	137.34510	262.68727	151.07623	10.05831	0.0552406	0.19111810	2.9849347	21	3 17.9	19.4
76010 2000 DZ_{23}	14.6	X	338.48737	285.58494	309.28839	2.10284	0.1468023	0.19066851	2.9896251	21	3 20.0	18.2
76011 2000 DH_{26}	14.9	X	44.18103	345.39459	324.14156	2.28379	0.1005788	0.21043502	2.7993511	21	10 19.9	18.6
76012 2000 DQ_{26}	15.7	X	83.78217	98.26044	320.37696	1.51892	0.1518812	0.23195306	2.6234290	21	1 17.7	18.4
76013 2000 DX_{27}	15.7	X	75.70710	227.51648	132.72618	1.48902	0.0807460	0.22190968	2.7019992	21	—	—
76014 2000 DV_{28}	14.9	X	283.62175	7.25973	294.45414	0.41238	0.0459349	0.19375994	2.9577404	21	4 14.1	19.1
76015 2000 DH_{30}	14.3	X	190.31092	153.37900	164.33648	10.31792	0.0831922	0.18351448	3.0668261	21	1 19.6	19.1
76016 2000 DU_{30}	15.0	X	336.12088	113.64119	274.21277	2.82160	0.1066353	0.21300041	2.7768287	21	10 18.6	18.2
76017 2000 DD_{31}	14.6	X	227.15611	265.94605	333.51557	4.05582	0.1171021	0.17755096	3.1351190	21	—	—
76018 2000 DL_{31}	14.5	X	82.48069	45.30937	323.11015	12.76377	0.0555113	0.17733082	3.1377131	21	—	—
76019 2000 DU_{31}	15.9	X	179.18743	320.58774	150.15440	2.62078	0.0152145	0.20283038	2.8688910	21	7 13.9	20.0
76020 2000 DD_{33}	15.7	X	285.17241	292.03645	300.19929	2.85805	0.1460670	0.22930274	2.6436049	21	1 2.2	19.7
76021 2000 DH_{34}	15.9	X	246.03982	150.88746	282.96272	0.93276	0.0659328	0.20636450	2.8360424	21	8 13.6	20.0
76022 2000 DV_{35}	15.1	X	177.11138	92.91691	281.14437	0.33488	0.0862454	0.19023302	2.9941861	21	3 13.9	19.7
76023 2000 DB_{38}	14.8	X	186.37377	102.50017	340.46789	1.36512	0.0212360	0.19951490	2.9005865	21	6 16.8	18.8
76024 2000 DJ_{38}	15.3	X	327.08923	323.46772	210.20957	0.65791	0.1282888	0.18211075	3.0825656	21	—	—
76025 2000 DR_{38}	15.0	X	261.51918	73.94036	176.24097	1.12853	0.1223614	0.18196309	3.0842330	21	1 10.2	19.7
76026 2000 DD_{39}	14.4	X	190.02118	50.83256	195.84146	3.23765	0.0963555	0.17310094	3.1886225	21	—	—
76027 2000 DK_{40}	15.0	X	308.94099	284.42278	301.74744	1.44919	0.0879803	0.23205676	2.6226474	21	1 28.4	18.4
76028 2000 DF_{43}	15.7	X	118.76805	71.92632	22.53509	1.25956	0.0197741	0.23831452	2.5765331	21	4 3.3	19.1
76029 2000 DL_{44}	14.6	X	310.19805	99.23822	328.13961	5.28509	0.1703105	0.16931585	3.2359687	21	10 13.4	18.4
76030 2000 DM_{44}	15.1	X	186.85471	286.10770	334.65075	8.51830	0.1311217	0.22010142	2.7167780	21	—	—
76031 2000 DX_{44}	15.2	X	184.28457	96.48255	309.62178	1.04966	0.0553036	0.19488668	2.9463292	21	4 28.1	19.4
76032 2000 DS_{46}	15.4	X	143.91556	225.76741	224.10363	1.18188	0.0610762	0.19526345	2.9425380	21	5 8.0	19.5
76033 2000 DW_{46}	14.8	X	257.70377	124.31256	245.97576	0.90151	0.1275525	0.19999661	2.8959271	21	5 29.1	19.0
76034 2000 DX_{46}	15.7	X	103.97322	79.99116	333.66789	12.54968	0.1676403	0.23306484	2.6150793	21	2 13.6	19.0
76035 2000 DD_{47}	15.1	X	85.26247	32.62353	332.94065	3.86480	0.1074202	0.22294110	2.6936590	21	—	—
76036 2000 DF_{49}	14.8	X	141.79453	208.38676	152.54395	12.36959	0.0966866	0.18359255	3.0659566	21	1 21.7	19.4
76037 2000 DA_{50}	15.4	X	205.39081	96.72207	324.34863	1.70767	0.0562878	0.19962244	2.8995448	21	6 10.2	19.6
76038 2000 DJ_{51}	14.6	X	154.15835	204.03188	151.60223	10.23674	0.0961781	0.18373857	3.0643320	21	1 28.5	19.2
76039 2000 DK_{51}	15.6	X	62.61321	199.48117	0.78883	3.08859	0.1198089	0.24322412	2.5417429	21	6 24.9	18.7
76040 2000 DD_{52}	14.5	X	309.65509	26.13958	157.00147	16.53385	0.0209426	0.18084347	3.0969498	21	—	—
76041 2000 DC_{53}	14.6	X	187.40168	176.76287	169.00745	11.46144	0.0301291	0.18634716	3.0356675	21	2 15.9	19.0
76042 2000 DY_{53}	15.1	X	242.24907	44.39077	326.96160	5.11482	0.1010318	0.19768501	2.9184587	21	5 14.5	19.6
76043 2000 DN_{54}	14.6	X	179.92696	300.22663	334.63494	5.78055	0.0999941	0.17458984	3.1704682	21	—	—
76044 2000 DV_{55}	15.0	X	148.62585	310.69280	353.15168	4.35507	0.1131515	0.22096452	2.7096988	21	—	—
76045 2000 DC_{56}	15.5	X	105.50903	55.05619	344.87110	13.47826	0.1089832	0.23010077	2.6374891	21	1 23.3	19.0
76046 2000 DL_{56}	15.7	X	118.61842	86.97043	335.30246	2.95234	0.2547916	0.23727473	2.5840548	21	3 23.9	19.5
76047 2000 DS_{56}	15.3	X	119.78437	104.16245	342.91654	2.89863	0.1346703	0.23855828	2.5747776	21	4 10.3	18.8
76048 2000 DY_{56}	15.7	X	8.32501	144.38077	290.48586	1.22411	0.1965018	0.22379672	2.6867890	21	—	—
76049 2000 DA_{57}	15.5	X	251.91160	281.93639	334.37343	4.25362	0.0623151	0.22820240	2.6520960	21	1 4.2	19.4
76050 2000 DF_{58}	14.4	X	131.24418	22.42902	328.67996	9.34538	0.1185507	0.17938410	3.1137238	21	1 4.3	19.0
76051 2000 DE_{59}	15.1	X	160.49716	226.92929	174.49379	1.57363	0.1602765	0.19218218	2.9739065	21	4 3.8	19.9
76052 2000 DK_{59}	14.9	X	321.43450	90.02790	338.35468	11.75734	0.1424101	0.21601932	2.7508969	21	11 13.9	18.1
76053 2000 DC_{61}	14.6	X	184.87295	303.49365	34.97332	1.95668	0.0663501	0.18445254	3.0564194	21	2 8.4	19.1
76054 2000 DE_{61}	15.9	X	107.39791	135.88603	5.59147	3.34554	0.1310956	0.24267449	2.5455793	21	6 6.6	19.3
76055 2000 DF_{61}	15.0	X	158.77575	350.35509	37.88779	1.32073	0.1732205	0.18993727	2.9972934	21	3 18.8	19.7
76056 2000 DN_{61}	15.0	X	89.35529	253.95767	157.66579	9.46963	0.1005476	0.18319567	3.0703832	21	1 20.4	19.2
76057 2000 DZ_{61}	14.8	X	43.61432	1.42740	345.89527	5.45469	0.0595198	0.21407244	2.7675504	21	11 30.9	18.7
76058 2000 DD_{63}	15.3	X	273.40899	254.44312	337.58263	6.17706	0.1279280	0.22687768	2.6624096	21	—	—
76059 2000 DV_{63}	14.6	X	350.66596	192.92214	308.18275	4.05282	0.1169915	0.18112350	3.0937568	21	—	—
76060 2000 DJ_{68}	15.2	X	271.31230	239.31523	353.58156	2.27552	0.0236189	0.22784245	2.6548885	21	—	—
76061 2000 DZ_{68}	15.2	X	286.19797	257.81091	327.04987	5.70423	0.0843418	0.22785346	2.6548030	21	1 1.8	19.0
76062 2000 DB_{70}	14.8	X	161.78780	93.29739	143.11902	4.07006	0.0630260	0.21385068	2.7694634	21	12 1.5	19.0
76063 2000 DW_{70}	14.3	X	282.88672	24.52062	221.82547	1.08206	0.0686776	0.18349910	3.0669975	21	2 2.4	18.8
76064 2000 DM_{73}	15.2	X	77.49033	306.24969	158.39559	2.94838	0.0563820	0.18696241	3.0290040	21	3 5.8	19.3
76065 2000 DD_{74}	14.8	X	103.49472	145.28848	279.02921	1.03082	0.0543796	0.18500931	3.0502844	21	2 16.9	18.9
76066 2000 DC_{75}	14.5	X	15.55159	38.07499	313.28432	2.57487	0.1293999	0.20974119	2.8055213	21	11 5.6	17.8
76067 2000 DF_{77}	15.6	X	100.86464	342.30684	156.85490	4.64351	0.1945427	0.24165327	2.5527460	21	6 5.6	19.1
76068 2000 DK_{77}	14.6	X	329.69279	292.01072	122.56557	2.14487	0.2122837	0.16915182	3.2380604	21	11 2.2	17.8
76069 2000 DS_{77}	15.0	X	242.30160	26.35456	18.41697	1.89263	0.0677022	0.20096235	2.8866419	21	7 1.9	19.2
76070 2000 DN_{78}	15.4	X	255.40522	107.01721	334.00636	6.49325	0.2297833	0.20871748	2.8146874	21	8 13.5	19.7
76071 2000 DC_{80}	15.3	X	76.96730	4.99346	42.10947	3.09649	0.0173122	0.22853246	2.6495418	21	—	—
76072 2000 DT_{80}	15.1	X	277.90051	104.58615	129.79923	10.83557	0.0952406	0.23018568	2.6368404	21	1 2.0	19.0
76073 2000 DB_{82}	15.1	X	254.93170	82.26711	62.98433	4.22657	0.1376766	0.21741505	2.7391111	21	11 16.3	18.7
76074 2000 DC_{82}	15.9	X	347.32529	181.37578	31.24993	4.60902	0.1166012	0.23627813	2.5913160	21	3 2.9	18.9
76075 2000 DM_{82}	15.4	X	132.17872	26.71457	18.07705	4.53186	0.2417550	0.23838962	2.5759919	21	3 15.9	19.4
76076 2000 DL_{85}	15.2	X	284.11503	2.42465	104.29446	8.01493	0.1680323	0.21728213	2.7402281	21	11 6.2	18.5
76077 2000 DW_{85}	14.7	X	170.46122	228.13955	119.86872	11.95830	0.0235451	0.18558525	3.0439703	21	1 31.9	19.0
76078 2000 DP_{86}	15.4	X	358.79419	1.60823	60.09653	6.18341	0.1567984	0.22133491	2.7066749	21	—	—
76079 2000 DT_{86}	14.7	X	223.17529	248.35045	80.01768	6.32515	0.0344919	0.23560106	2.5962782	21	3 5.1	18.4
76080 2000 DA_{87}	14.7	X	159.39905	331.98107	11.22254	7.26073	0.0605083	0.22923096	2.6441567	21	1 9.4	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76081 2000 DV_{87}	14.2	X	269.00372	145.19859	105.39727	9.21689	0.0680677	0.18444643	3.0564870	21	1 23.8	18.7
76082 2000 DJ_{88}	14.7	X	152.20993	295.00560	66.25423	1.92495	0.0747169	0.18396386	3.0618297	21	2 1.4	19.2
76083 2000 DD_{90}	16.6	X	10.06357	221.92526	234.81688	0.61287	0.1527068	0.22758166	2.6569163	21	—	—
76084 2000 DD_{92}	14.7	X	93.48906	87.88935	359.40535	4.83181	0.0231860	0.18530131	3.0470791	21	3 1.4	18.9
76085 2000 DF_{92}	15.2	X	97.34581	122.30587	171.48366	1.77169	0.0626801	0.21142263	2.7906266	21	11 30.4	19.3
76086 2000 DK_{92}	15.3	X	321.06415	65.23854	2.61294	8.51996	0.1527352	0.21386889	2.7693062	21	11 13.3	18.3
76087 2000 DK_{93}	15.2	X	316.86340	15.51603	52.00488	2.18432	0.0743723	0.21627400	2.7487369	21	11 12.8	18.3
76088 2000 DG_{94}	15.0	X	144.60592	352.37461	94.49297	3.28708	0.0178155	0.24155426	2.5534435	21	4 27.9	18.3
76089 2000 DH_{94}	14.9	X	306.08340	54.61403	117.67285	5.04965	0.2008831	0.22548895	2.6733298	21	—	—
76090 2000 DQ_{94}	14.5	X	213.73032	195.51309	146.55401	23.02843	0.0521492	0.19047454	2.9916544	21	3 16.8	19.1
76091 2000 DT_{94}	14.9	X	303.57630	284.12933	340.90441	11.45003	0.2382270	0.23478316	2.6023044	21	2 20.1	18.6
76092 2000 DV_{95}	15.1	X	287.90842	275.90808	126.41918	6.72320	0.0714836	0.20886395	2.8133714	21	8 28.7	18.7
76093 2000 DP_{96}	14.4	X	227.21968	155.61820	115.48290	3.15706	0.0981537	0.18261173	3.0769251	21	1 2.9	19.2
76094 2000 DE_{97}	15.3	X	154.38298	63.38418	330.83064	3.63836	0.1718683	0.23849796	2.5752117	21	3 15.6	19.4
76095 2000 DL_{97}	15.1	X	189.84053	325.27863	348.11611	2.97119	0.1180720	0.22909875	2.6451740	21	1 9.7	19.1
76096 2000 DQ_{97}	15.1	X	120.20949	11.26954	21.53924	5.36609	0.3379201	0.23588789	2.5941731	21	3 1.8	19.0
76097 2000 DN_{98}	15.7	X	72.85685	43.00196	51.29960	5.08809	0.1197607	0.23383343	2.6093459	21	2 14.9	18.8
76098 2000 DA_{99}	14.6	X	76.45764	347.32905	4.28835	8.01676	0.1748632	0.22120056	2.7077708	21	—	—
76099 2000 DV_{100}	15.6	X	130.00262	33.98699	34.25161	5.92164	0.2470190	0.23967441	2.5667778	21	4 12.1	19.6
76100 2000 DC_{101}	15.2	X	29.41624	73.66906	138.68518	9.96703	0.1365753	0.24002346	2.5642887	21	5 20.0	18.0
76101 2000 DD_{101}	14.9	X	280.03400	252.86968	355.27662	14.89838	0.2001959	0.22914649	2.6448065	21	1 14.9	19.3
76102 2000 DP_{102}	14.2	X	60.83003	51.69661	14.04811	9.42852	0.0807920	0.18150521	3.0894179	21	—	—
76103 2000 DF_{103}	14.7	X	201.19098	25.76164	2.70338	15.22466	0.1395242	0.24132779	2.5550407	21	4 16.5	18.8
76104 2000 DT_{103}	14.3	X	333.41535	16.78240	3.55584	12.27810	0.0168873	0.20937192	2.8088191	21	10 5.1	18.0
76105 2000 DV_{103}	14.7	X	299.44070	207.29752	71.09899	4.82563	0.0932303	0.23673923	2.5879501	21	3 25.9	18.2
76106 2000 DF_{104}	14.4	X	68.85911	5.12942	7.46506	12.48123	0.1001649	0.22103883	2.7090915	21	—	—
76107 2000 DG_{104}	14.2	X	70.33250	358.00100	12.03033	11.85629	0.0162125	0.17401718	3.1774200	21	—	—
76108 2000 DX_{105}	14.5	X	21.15531	355.10470	132.03748	10.28570	0.1048910	0.18332477	3.0689416	21	1 14.3	18.3
76109 2000 DC_{106}	14.5	X	156.28026	339.56141	36.88844	8.23286	0.0839392	0.18635962	3.0355321	21	2 27.4	19.1
76110 2000 DD_{106}	14.6	X	155.36636	155.91630	132.83420	12.04917	0.1015717	0.21922413	2.7240212	21	—	—
76111 2000 DK_{106}	14.8	X	342.27866	44.43614	50.14784	6.91476	0.0470793	0.22018557	2.7160857	21	—	—
76112 2000 DC_{107}	14.3	X	212.74923	230.52697	33.96713	10.03512	0.0453264	0.17715007	3.1398471	21	—	—
76113 2000 DE_{107}	14.3	X	242.78252	265.65074	49.47446	7.74832	0.0851251	0.18738106	3.0244907	21	3 14.6	18.9
76114 2000 DF_{107}	15.1	X	212.16594	162.25828	32.28985	8.57489	0.1289357	0.21458080	2.7631777	21	11 26.7	19.3
76115 2000 DU_{107}	15.2	X	318.80818	46.34868	347.12430	5.59455	0.1207123	0.21317905	2.7752772	21	9 25.9	18.3
76116 2000 DZ_{109}	15.3	X	25.89842	298.91933	168.04739	5.49370	0.1764119	0.22876426	2.6477518	21	—	—
76117 2000 DM_{110}	14.7	X	195.96587	156.73514	108.85745	3.34126	0.0848211	0.17554471	3.1589607	21	—	—
76118 2000 DT_{110}	14.1	X	258.79557	200.14056	63.35121	16.20851	0.1192996	0.23074996	2.6325399	21	1 17.1	18.3
76119 2000 DR_{112}	14.6	X	149.67950	161.78104	177.26694	11.94304	0.0740338	0.17867961	3.1219029	21	1 2.9	19.4
76120 2000 DO_{114}	15.7	X	241.09315	120.74452	299.98616	0.92169	0.0316106	0.20522341	2.8465454	21	7 25.9	19.4
76121 2000 DG_{117}	14.6	X	100.09417	348.63149	332.85297	6.10055	0.1820273	0.21856495	2.7294954	21	—	—
76122 2000 DR_{117}	14.6	X	107.26893	31.21275	341.07437	8.77508	0.1025546	0.17955479	3.1117502	21	—	—
76123 2000 EE	14.5	X	283.45325	100.00895	77.94187	13.09070	0.1002680	0.22180870	2.7028192	21	—	—
76124 2000 EF_{1}	15.8	X	129.40199	252.34884	116.50616	1.65289	0.0955783	0.23073846	2.6326273	21	1 8.6	19.2
76125 2000 EQ_{1}	15.8	X	214.87627	177.87721	312.54716	2.58186	0.0387615	0.20929470	2.8095099	21	9 20.4	19.8
76126 2000 EW_{3}	13.5	X	147.55360	276.05326	184.69515	8.98343	0.1304858	0.19198797	2.9759117	21	6 1.7	18.3
76127 2000 EV_{5}	14.5	X	346.21567	63.76990	81.00079	0.41843	0.1805424	0.18009344	3.1055423	21	—	—
76128 2000 EZ_{6}	14.6	X	345.74342	348.39975	169.98361	8.99669	0.1822056	0.18082527	3.0971575	21	—	—
76129 2000 EC_{8}	14.9	X	155.56531	1.53984	334.17318	8.00972	0.0970161	0.22938674	2.6429595	21	—	—
76130 2000 ED_{8}	15.0	X	59.87590	20.12512	335.67615	1.99737	0.0858087	0.22009746	2.7168106	21	—	—
76131 2000 EF_{8}	15.2	X	321.36365	27.42988	222.01199	2.30249	0.1100608	0.23742076	2.5829951	21	3 11.1	18.4
76132 2000 EF_{10}	15.3	X	164.67166	218.30277	174.30102	9.21796	0.1021809	0.18955095	3.0013645	21	3 25.3	19.9
76133 2000 ET_{10}	14.5	X	18.02223	303.56377	157.05143	13.53925	0.2218426	0.22760248	2.6567543	21	—	—
76134 2000 EB_{11}	14.8	X	98.60866	27.70118	51.65335	3.57098	0.0729765	0.18832019	3.0144271	21	3 5.4	19.0
76135 2000 EO_{11}	15.7	X	176.30557	291.06041	111.73084	6.31692	0.2046296	0.24371840	2.5383052	21	4 20.3	20.0
76136 2000 EF_{12}	14.6	X	208.24792	224.05151	124.24203	11.70738	0.1007862	0.19088858	2.9873269	21	3 18.5	19.4
76137 2000 EQ_{12}	14.8	X	100.24282	116.99055	22.90741	10.10781	0.0693045	0.24222871	2.5487015	21	5 14.7	18.3
76138 2000 EX_{12}	14.4	X	158.09327	235.81063	111.93389	11.54586	0.0725209	0.18287956	3.0739203	21	1 22.5	19.0
76139 2000 EZ_{12}	15.4	X	329.76448	179.54716	52.74123	7.93241	0.1506582	0.23445692	2.6047178	21	2 27.9	18.7
76140 2000 EG_{13}	13.6	X	305.34566	43.54385	117.20624	22.73019	0.0076464	0.17490099	3.1667069	21	—	—
76141 2000 EJ_{13}	15.3	X	237.55812	25.97201	88.86300	4.96169	0.0523260	0.21189247	2.7864999	21	9 30.6	19.2
76142 2000 ER_{13}	14.6	X	18.92882	196.51373	64.16456	2.89195	0.0490348	0.19947032	2.9010187	21	7 3.3	18.4
76143 2000 EV_{13}	15.0	X	220.52137	229.99698	359.73968	7.44621	0.0222512	0.22184837	2.7024970	21	—	—
76144 2000 EK_{14}	15.3	X	252.34344	10.49956	162.82218	3.87552	0.1287043	0.21707545	2.7419671	21	12 19.6	19.0
76145 2000 EO_{16}	15.0	X	157.32507	242.34272	182.17196	9.85136	0.0861112	0.19307470	2.9647345	21	4 25.3	19.5
76146 2000 EU_{16}	14.3	X	88.21948	347.77133	334.25748	8.85045	0.1666632	0.21428597	2.7657116	21	—	—
76147 2000 EY_{16}	15.1	X	159.50716	126.10221	356.66493	11.41639	0.1250815	0.24653524	2.5189336	21	7 12.5	19.2
76148 2000 EP_{17}	15.3	X	297.81274	115.64679	18.28014	7.99644	0.0783489	0.26722298	2.3871892	21	—	—
76149 2000 EY_{17}	14.7	X	203.05199	264.75704	13.67615	14.91162	0.1083750	0.22484032	2.6784688	21	—	—
76150 2000 EE_{18}	14.8	X	26.76313	100.79972	42.06669	12.87825	0.1054014	0.23192736	2.6236228	21	2 6.4	18.0
76151 2000 EA_{20}	14.0	X	359.87250	109.25387	126.43007	14.19105	0.1031154	0.23461492	2.6035482	21	5 2.3	17.2
76152 2000 EH_{20}	14.9	X	333.32722	192.98787	249.97574	10.87557	0.0910230	0.21969446	2.7201320	21	12 28.7	18.2
76153 2000 ER_{20}	14.0	X	230.89348	275.14938	281.79057	16.05908	0.0951599	0.17237335	3.1975890	21	12 18.6	18.7
76154 2000 ET_{20}	14.4	X	289.27919	201.13662	294.76254	11.47219	0.0999074	0.21946443	2.7220324	21	12 29.8	17.7
76155 2000 EX_{20}	14.3	X	227.80123	27.31698	293.12078	12.63930	0.0139322	0.18805382	3.0172730	21	2 27.7	18.8
76156 2000 EG_{21}	14.9	X	213.21888	332.53069	303.24632	13.37577	0.0794071	0.22536749	2.6742902	21	—	—
76157 2000 ET_{21}	15.1	X	108.57378	83.42645	0.23912	26.59725	0.2103366	0.23761387	2.5815955	21	3 30.0	18.7
76158 2000 EL_{22}	15.3	X	259.21532	344.39744	305.36534	3.14923	0.2001477	0.23490445	2.6014085	21	2 9.7	19.5
76159 2000 EQ_{22}	15.5	X	113.70795	243.50837	155.18008	2.11928	0.0967737	0.18718062	3.0266494	21	2 3.9	19.8
76160 2000 EV_{23}	14.8	X	99.48854	288.04548	357.25950	7.85603	0.0550596	0.21052494	2.7985539	21	11 18.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76161 2000 EY_{23}	16.1	X	39.36519	308.76848	185.12743	3.30154	0.2464094	0.23252580	2.6191193	21	2 12.7	18.0
76162 2000 EC_{25}	15.6	X	121.29068	330.32355	179.14826	9.20522	0.1882484	0.24403138	2.5361344	21	7 9.2	19.6
76163 2000 EB_{27}	14.7	X	158.73012	166.98835	158.33295	10.76347	0.0612529	0.18074265	3.0981014	21	—	—
76164 2000 EC_{27}	15.4	X	303.38043	105.75082	141.05538	3.03837	0.0771391	0.18833357	3.0142844	21	2 26.1	19.4
76165 2000 EV_{28}	14.6	X	305.14588	182.28317	75.94471	10.95301	0.0375724	0.18981146	2.9986177	21	3 25.6	18.9
76166 2000 EX_{28}	14.7	X	334.19652	71.67825	107.68125	15.33420	0.0868543	0.22938495	2.6429732	21	1 2.4	18.1
76167 2000 ED_{29}	13.9	X	220.52590	143.51967	106.89003	14.28534	0.1603062	0.17439470	3.1728329	21	—	—
76168 2000 EO_{29}	14.9	X	4.57019	20.25272	132.94150	11.85034	0.0633917	0.22999999	2.6382595	21	1 13.6	18.3
76169 2000 ES_{29}	15.3	X	296.41024	177.51364	44.39276	3.68116	0.1017827	0.23017936	2.6368887	21	1 7.0	18.9
76170 2000 EF_{30}	14.4	X	271.63242	225.46213	56.23197	7.80478	0.1347107	0.23321713	2.6139408	21	2 21.7	18.4
76171 2000 EH_{31}	14.8	X	170.41126	300.95284	87.71346	8.78644	0.2028330	0.23728877	2.5839529	21	3 31.1	19.2
76172 2000 ET_{31}	13.8	X	9.59506	290.70137	21.22618	13.10907	0.1164900	0.20415370	2.8564801	21	9 7.7	17.3
76173 2000 EE_{32}	15.4	X	323.16834	353.35767	129.47473	5.77560	0.1274807	0.22292545	2.6937851	21	—	—
76174 2000 EJ_{32}	15.5	X	306.00297	66.81130	34.82399	4.06281	0.0429955	0.21765131	2.7371285	21	12 12.8	18.9
76175 2000 EC_{34}	15.2	X	342.88341	90.57613	116.63814	12.11737	0.1348473	0.23251242	2.6192198	21	2 14.6	18.4
76176 2000 EK_{35}	15.2	X	260.62768	48.87891	56.12425	5.17082	0.0242254	0.21188218	2.7865902	21	10 20.2	19.0
76177 2000 EG_{36}	14.9	X	28.12276	204.21819	35.28040	8.71015	0.1761808	0.24177710	2.5518743	21	6 29.5	17.4
76178 2000 EL_{36}	14.9	X	186.78411	173.92636	44.02859	10.95456	0.1137442	0.21391918	2.7688721	21	11 30.3	19.3
76179 2000 EM_{36}	14.8	X	316.10521	345.95835	90.81582	9.51748	0.2234563	0.21659728	2.7460012	21	11 17.9	17.3
76180 2000 ER_{36}	14.7	X	103.56432	258.75712	173.72202	15.04153	0.0750765	0.23199026	2.6231485	21	2 20.7	18.2
76181 2000 EX_{36}	14.4	X	236.37991	357.16651	57.23635	2.85102	0.0654427	0.19989255	2.8969320	21	7 7.7	18.5
76182 2000 EB_{39}	14.9	X	141.27873	88.80681	1.09212	10.15040	0.0837841	0.19273894	2.9681766	21	5 3.9	19.5
76183 2000 EN_{39}	14.6	X	46.76334	318.41668	21.14897	4.41084	0.1206958	0.21077075	2.7963776	21	12 3.9	18.3
76184 2000 EP_{39}	14.5	X	3.63094	140.81413	25.19413	4.44232	0.1060390	0.18376407	3.0640486	21	2 7.2	18.2
76185 2000 EQ_{39}	14.5	X	27.38008	175.99037	149.96054	2.64999	0.0595130	0.20656412	2.8342150	21	10 13.7	18.0
76186 2000 EC_{40}	14.5	X	56.25369	354.57318	175.50169	10.25963	0.0401661	0.19071737	2.9891145	21	4 29.1	18.6
76187 2000 EX_{40}	14.3	X	14.95370	178.83446	150.37929	2.58942	0.0759768	0.20473786	2.8510441	21	10 1.3	17.9
76188 2000 EY_{40}	14.9	X	51.52427	26.36346	173.89296	1.63363	0.0619148	0.19329592	2.9624721	21	6 1.4	18.8
76189 2000 EC_{41}	14.1	X	6.91549	161.29770	13.70257	10.25426	0.0600095	0.18450888	3.0557972	21	2 28.0	18.1
76190 2000 EG_{42}	15.3	X	358.41140	279.10273	178.93413	13.90006	0.1828361	0.22310010	2.6923791	21	—	—
76191 2000 EQ_{42}	14.3	X	48.57058	41.30023	13.94271	9.05348	0.0246989	0.17502714	3.1651852	21	—	—
76192 2000 EU_{43}	14.1	X	101.52496	263.93964	177.42340	8.07539	0.0815463	0.18558537	3.0439690	21	3 11.0	18.3
76193 2000 EW_{44}	14.3	X	138.83854	184.47478	190.35274	11.29299	0.0367066	0.18106290	3.0944471	21	1 26.6	18.9
76194 2000 EG_{45}	14.2	X	292.74862	232.32223	352.56407	5.21842	0.1076009	0.18021702	3.1041225	21	1 16.3	18.7
76195 2000 EU_{45}	14.7	X	94.22877	284.74026	184.25778	12.98356	0.1366284	0.23566111	2.5958371	21	4 9.2	17.9
76196 2000 EP_{46}	14.7	X	280.04116	215.69338	37.25393	0.56547	0.1239835	0.18130823	3.0916551	21	2 1.4	19.3
76197 2000 EK_{47}	14.4	X	345.51799	41.96688	17.86063	4.76539	0.2140265	0.21560809	2.7543937	21	12 28.1	17.1
76198 2000 EA_{49}	14.8	X	302.73528	256.58599	210.35008	3.75032	0.0668805	0.21470552	2.7621075	21	12 13.4	18.1
76199 2000 EO_{49}	15.1	X	125.60187	359.92658	28.45283	13.62472	0.0549349	0.22877904	2.6476377	21	1 27.9	18.9
76200 2000 EL_{50}	13.7	X	97.83089	355.73990	338.01152	18.87127	0.0961721	0.17110269	3.2134003	21	—	—
76201 2000 EM_{53}	15.0	X	195.61498	89.47980	346.21424	1.22988	0.0858221	0.19780117	2.9173160	21	6 17.1	19.3
76202 2000 ER_{53}	14.6	X	198.21632	265.07526	27.50594	2.12480	0.1056721	0.17599916	3.1535204	21	1 1.6	19.5
76203 2000 ER_{54}	15.2	X	53.53649	61.04492	56.08415	6.48209	0.2369656	0.23154171	2.6265352	21	2 27.3	17.5
76204 2000 EF_{56}	14.5	X	157.95618	186.47796	182.70086	10.64847	0.0908973	0.18528330	3.0472765	21	2 15.5	19.1
76205 2000 EV_{56}	14.4	X	80.75093	83.73204	241.45368	2.82837	0.1448065	0.21432447	2.7653804	21	12 28.8	18.6
76206 2000 ES_{59}	14.7	X	38.09221	141.12343	151.11920	2.53952	0.0548048	0.20352681	2.8623427	21	9 12.9	18.5
76207 2000 EW_{59}	16.1	X	84.90365	255.82085	162.50008	1.97408	0.2109296	0.27594663	2.3366087	21	1 13.9	18.0
76208 2000 EZ_{59}	14.5	X	123.76686	21.35270	359.25414	14.61520	0.0845529	0.22724135	2.6595683	21	1 20.2	18.3
76209 2000 ES_{61}	14.6	X	27.52948	206.78895	184.25727	12.56182	0.1771269	0.21700950	2.7425226	21	—	—
76210 2000 ET_{61}	14.4	X	291.87965	139.19104	238.23412	0.99967	0.0858331	0.20178659	2.8787758	21	7 27.5	18.1
76211 2000 ED_{63}	15.3	X	40.75269	198.34644	166.98293	5.12014	0.0441525	0.21434842	2.7651743	21	12 19.0	19.1
76212 2000 EL_{63}	13.9	X	239.85481	224.47843	48.88446	1.97637	0.1359815	0.17907933	3.1172556	21	1 16.8	18.7
76213 2000 ET_{64}	14.4	X	94.72363	192.93153	186.33185	19.60204	0.0735239	0.17640072	3.1487329	21	—	—
76214 2000 EV_{64}	15.6	X	137.94164	266.22307	350.80291	3.39963	0.1590579	0.21072110	2.7968169	21	11 30.9	20.3
76215 2000 ET_{65}	14.3	X	318.46414	315.92915	1.88649	1.51198	0.1024486	0.19599861	2.9351753	21	6 14.0	18.1
76216 2000 EO_{66}	14.3	X	359.72120	248.40614	62.74552	3.12457	0.0382704	0.20090648	2.8871770	21	8 13.2	18.1
76217 2000 EC_{67}	15.2	X	339.68286	210.07678	197.16987	4.11411	0.0702507	0.21201045	2.7854660	21	11 20.7	18.7
76218 2000 ER_{67}	14.6	X	21.82293	221.60290	184.46728	2.45663	0.0740391	0.21697494	2.7428139	21	—	—
76219 2000 ER_{68}	14.6	X	290.13251	241.16577	141.81697	2.75208	0.0328144	0.20193592	2.8773564	21	8 9.5	18.4
76220 2000 EY_{68}	14.4	X	292.07222	280.98643	58.02541	3.26975	0.0727592	0.19589729	2.9361873	21	6 8.5	18.3
76221 2000 EH_{69}	14.7	X	53.50141	328.36675	190.76038	9.73715	0.0573279	0.18880334	3.0092823	21	4 11.4	18.6
76222 2000 EL_{69}	14.5	X	101.69154	217.85582	196.15599	3.11870	0.0954027	0.22832467	2.6511491	21	1 29.7	17.8
76223 2000 EX_{69}	14.9	X	219.37330	246.17587	179.09196	2.05361	0.0249721	0.19772127	2.9181019	21	7 4.7	19.1
76224 2000 EY_{69}	15.1	X	225.72470	137.56444	17.12321	3.77320	0.0440073	0.21035169	2.8000903	21	11 3.2	18.9
76225 2000 EC_{70}	13.8	X	117.83718	159.94023	194.95397	9.64456	0.0962110	0.17443532	3.1723402	21	—	—
76226 2000 EO_{70}	15.1	X	335.73339	236.87124	194.33116	7.36450	0.1960055	0.21590698	2.7518511	21	12 21.7	17.9
76227 2000 EM_{71}	15.0	X	281.47234	311.61196	349.17353	2.87735	0.1129651	0.19276492	2.9679099	21	3 31.7	19.2
76228 2000 EH_{75}	14.8	X	82.25646	268.67392	192.54008	23.05544	0.2894793	0.23614922	2.5922589	21	4 5.2	17.8
76229 2000 EK_{75}	14.2	X	235.38881	75.96073	218.05959	14.36452	0.1896163	0.22764236	2.6564440	21	1 23.4	19.0
76230 2000 EP_{75}	14.8	X	170.81376	100.05497	105.96255	8.70853	0.1613384	0.21189319	2.7864936	21	11 3.6	19.4
76231 2000 ET_{75}	14.6	X	63.05461	39.73977	18.90108	11.97419	0.2998136	0.22991536	2.6389068	21	—	—
76232 2000 EU_{78}	14.7	X	119.27018	69.33782	66.93008	3.10058	0.0479993	0.19749429	2.9203373	21	6 5.3	18.6
76233 2000 EX_{78}	14.4	X	211.64872	328.75999	43.05675	2.77133	0.0874625	0.19387265	2.9565940	21	4 15.8	19.0
76234 2000 EQ_{79}	14.8	X	286.27182	266.50811	72.32298	3.15300	0.0694591	0.19835170	2.9119154	21	5 31.9	18.8
76235 2000 EY_{80}	14.6	X	92.51202	154.52976	135.73689	8.78843	0.2106348	0.21077439	2.7963455	21	12 5.6	19.2
76236 2000 ED_{81}	15.4	X	72.98027	61.82384	1.38492	11.31307	0.1883020	0.23031453	2.6358569	21	1 13.4	18.3
76237 2000 EO_{81}	15.3	X	340.04718	88.71636	23.06377	5.86890	0.0710066	0.22255146	2.6968021	21	—	—
76238 2000 EU_{81}	14.8	X	282.60988	34.54340	85.59230	3.88212	0.0608021	0.21601690	2.7509175	21	12 2.5	18.1
76239 2000 EF_{82}	14.5	X	22.93745	79.88641	136.56583	10.92787	0.0478763	0.19354002	2.9599806	21	5 14.5	18.6
76240 2000 EP_{82}	14.8	X	123.28076	31.64039	11.54382	13.96839	0.1495982	0.23282049	2.6169088	21	2 26.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76241 2000 EQ_{82}	14.4	X	333.18833	341.42583	145.23023	13.94596	0.0921688	0.17692088	3.1425582	21	—	—
76242 2000 ED_{84}	15.2	X	1.80566	99.04925	119.75621	6.53869	0.0773500	0.23726026	2.5841599	21	4 9.4	18.2
76243 2000 EJ_{85}	15.6	X	67.69617	265.75847	313.91023	10.93367	0.1316361	0.24583421	2.5237200	21	8 1.9	18.7
76244 2000 EW_{85}	14.5	X	298.38711	35.57755	58.80619	4.33988	0.0567284	0.21322488	2.7748795	21	11 21.2	18.1
76245 2000 EN_{86}	14.2	X	269.27921	33.68159	182.84836	16.90831	0.1677836	0.17728786	3.1382200	21	—	—
76246 2000 EX_{86}	15.0	X	76.34057	248.61428	198.11224	7.92508	0.1910116	0.23261891	2.6184204	21	2 15.4	17.9
76247 2000 EM_{87}	14.3	X	307.86355	52.41777	12.30158	11.99777	0.1414766	0.21181021	2.7872213	21	10 17.3	17.4
76248 2000 ES_{87}	15.2	X	313.20713	213.69002	348.71932	12.79299	0.1190643	0.22769249	2.6560541	21	1 2.3	19.1
76249 2000 EV_{87}	14.9	X	13.29332	272.88763	174.33622	15.93534	0.1967398	0.22337612	2.6901607	21	—	—
76250 2000 EJ_{88}	14.8	X	62.53418	231.57114	292.61077	12.22718	0.0834184	0.23927832	2.5696096	21	4 22.5	18.2
76251 2000 EK_{91}	14.3	X	292.35487	218.06787	283.50555	5.57096	0.0149741	0.17178500	3.2048858	21	—	—
76252 2000 EJ_{93}	14.1	X	33.49529	345.94974	277.90518	9.85673	0.1821451	0.19763326	2.9189681	21	8 11.0	17.6
76253 2000 ER_{93}	14.0	X	202.58506	100.15319	304.95016	8.87591	0.1708193	0.24268506	2.5455054	21	5 10.1	18.3
76254 2000 ET_{93}	13.4	X	276.45859	226.67590	312.26329	12.24340	0.1120410	0.17443294	3.1723692	21	—	—
76255 2000 EQ_{94}	15.0	X	230.31121	227.16766	338.14525	14.01061	0.1413765	0.21706585	2.7420480	21	—	—
76256 2000 ET_{94}	14.8	X	333.63190	272.37802	254.48836	7.30557	0.1443701	0.22655740	2.6649182	21	—	—
76257 2000 EA_{97}	14.5	X	308.22213	177.93017	352.10090	10.05063	0.1928289	0.22215612	2.7000006	21	—	—
76258 2000 EZ_{98}	14.9	X	232.92668	179.03880	169.97807	10.04521	0.0922052	0.19177220	2.9781435	21	4 11.6	19.4
76259 2000 EZ_{100}	15.0	X	35.91110	220.14826	179.80211	10.63553	0.0674055	0.17172433	3.2056406	21	—	—
76260 2000 ES_{102}	14.4	X	323.16796	101.26498	262.60321	0.78235	0.0890625	0.20454590	2.8528276	21	8 25.6	17.7
76261 2000 EU_{103}	14.1	X	107.15493	320.33742	127.49035	15.93647	0.2242434	0.23672652	2.5880427	21	4 16.8	18.1
76262 2000 EV_{104}	14.3	X	85.29171	106.14976	338.78293	12.87231	0.1554218	0.23066276	2.6332033	21	2 25.5	17.1
76263 2000 EY_{104}	14.4	X	115.19381	75.51126	50.17860	11.44525	0.0376046	0.19291051	2.9664164	21	5 15.9	18.7
76264 2000 EZ_{104}	14.6	X	199.51794	137.31037	115.49060	9.95345	0.1202964	0.21809816	2.7333886	21	—	—
76265 2000 EB_{105}	15.1	X	136.16795	198.19509	89.60159	9.00462	0.1113390	0.21439400	2.7647824	21	—	—
76266 2000 EE_{105}	13.6	X	208.93688	80.14136	144.38898	15.47664	0.0393316	0.16993775	3.2280689	21	—	—
76267 2000 EN_{105}	14.2	X	299.57347	87.32583	135.43333	15.28979	0.0862520	0.18056312	3.1001546	21	1 22.8	18.7
76268 2000 EU_{105}	14.8	X	308.60889	323.92329	140.60938	12.68491	0.1087432	0.21567966	2.7537844	21	12 18.1	18.2
76269 2000 EM_{107}	14.6	X	311.27585	64.48120	181.37266	15.04766	0.0875410	0.23490384	2.6014130	21	2 23.1	18.2
76270 2000 ED_{110}	14.6	X	130.06327	240.66359	69.31645	7.38985	0.1394354	0.26409059	2.4060285	21	—	—
76271 2000 EH_{110}	14.3	X	246.18029	220.48589	62.33440	10.73565	0.0493637	0.18392609	3.0622489	21	2 11.3	18.9
76272 De Jong	14.5	X	293.33563	328.99537	104.32308	10.20389	0.2620564	0.21353838	2.7721629	21	9 23.0	17.8
76273 2000 EZ_{111}	14.8	X	53.28476	338.73704	100.97937	10.43038	0.0736581	0.18387670	3.0627972	21	1 2.9	18.7
76274 2000 EJ_{112}	15.2	X	329.46041	117.00930	334.53824	0.66604	0.1700125	0.17694658	3.1422539	21	12 23.1	18.5
76275 2000 EW_{113}	14.3	X	59.29419	202.09439	298.48403	8.15598	0.0818968	0.18819524	3.0157612	21	3 24.3	18.4
76276 2000 EQ_{114}	14.3	X	66.38379	54.21772	354.39636	9.84375	0.1102354	0.18008331	3.1056588	21	—	—
76277 2000 ER_{114}	14.4	X	107.69092	323.04587	358.07950	8.15324	0.1563323	0.21788081	2.7352061	21	—	—
76278 2000 EP_{115}	14.7	X	122.59570	156.15617	171.81109	9.41669	0.0762977	0.17412711	3.1760825	21	—	—
76279 2000 ET_{116}	14.7	X	242.42091	226.33356	185.34774	1.75776	0.0916796	0.20061394	2.8899831	21	7 7.8	18.8
76280 2000 EK_{117}	14.6	X	194.07245	299.86558	103.15754	15.84899	0.0818596	0.24303535	2.5430589	21	5 8.9	18.6
76281 2000 EM_{118}	14.7	X	185.27177	357.87237	9.72057	15.56376	0.0697789	0.23696266	2.5863230	21	3 12.2	18.5
76282 2000 EG_{119}	14.6	X	229.89703	212.58361	19.56370	14.66816	0.2296746	0.22124254	2.7074283	21	—	—
76283 2000 ET_{119}	14.4	X	304.82174	147.04194	35.29025	9.87181	0.0838087	0.18037018	3.1023650	21	—	—
76284 2000 EC_{120}	15.7	X	71.47673	87.43960	34.34229	7.93615	0.0953727	0.23681411	2.5874045	21	3 19.4	18.7
76285 2000 EE_{121}	14.9	X	275.23825	186.84839	15.85497	9.12075	0.2088973	0.22432230	2.6825907	21	—	—
76286 2000 EK_{121}	14.5	X	158.89790	159.74022	85.24263	9.13963	0.1918149	0.21463681	2.7626969	21	12 5.8	19.1
76287 2000 EB_{123}	15.2	X	343.29205	83.99917	143.07491	15.12182	0.0547518	0.23438071	2.6052824	21	3 26.4	18.6
76288 2000 EJ_{123}	14.7	X	48.51734	108.45248	109.15042	3.08848	0.0352356	0.19734476	2.9218123	21	6 16.8	18.4
76289 2000 EG_{124}	15.0	X	57.14212	325.67914	31.83956	3.99257	0.0881572	0.21689169	2.7435156	21	—	—
76290 2000 EG_{125}	14.5	X	172.51474	262.98989	14.87246	6.38393	0.2352650	0.21774623	2.7363330	21	—	—
76291 2000 EH_{126}	15.1	X	205.69870	223.10245	17.95061	9.69646	0.1701745	0.21834010	2.7313691	21	—	—
76292 2000 ER_{126}	14.2	X	93.64567	224.47045	140.31559	8.77873	0.0217029	0.17532665	3.1615794	21	—	—
76293 2000 EV_{127}	14.4	X	206.61261	3.08262	19.03972	14.08746	0.1688405	0.23953880	2.5677465	21	4 16.6	18.5
76294 2000 EA_{129}	14.8	X	245.26333	310.32002	118.03167	3.16434	0.1110554	0.20435095	2.8546417	21	7 30.9	18.9
76295 2000 EY_{129}	14.9	X	277.21465	46.30137	23.91460	5.42362	0.0993168	0.20836008	2.8179052	21	9 15.9	18.5
76296 2000 EE_{130}	14.5	X	62.39449	83.04379	21.41415	4.62311	0.0371417	0.18489715	3.0515178	21	2 13.6	18.7
76297 2000 EN_{130}	14.4	X	37.48960	43.97433	88.19153	2.78168	0.0212377	0.18477046	3.0529125	21	2 13.6	18.6
76298 2000 EC_{131}	14.9	X	162.94560	248.87339	158.88629	10.49957	0.0967049	0.19152629	2.9806922	21	4 12.5	19.5
76299 2000 EF_{132}	14.9	X	275.66240	35.76634	188.63888	10.42519	0.0356623	0.17959292	3.1113097	21	1 3.2	19.6
76300 2000 EA_{133}	14.6	X	212.95647	133.51646	152.31685	1.09464	0.0810821	0.17860450	3.1227781	21	1 6.9	19.2
76301 2000 EL_{133}	15.0	X	101.76747	165.77355	356.99615	1.85986	0.0207598	0.19603823	2.9347799	21	6 13.7	19.1
76302 2000 EP_{134}	14.5	X	33.14207	21.74125	87.89280	3.63121	0.0740717	0.18073089	3.0982357	21	1 12.1	18.4
76303 2000 EY_{134}	14.5	X	311.21643	316.35286	27.51265	16.99533	0.0627919	0.19877037	2.9078252	21	7 17.8	18.7
76304 2000 EC_{135}	13.9	X	178.95882	149.89086	165.36491	13.12410	0.1634243	0.22281781	2.6946526	21	1 4.3	18.4
76305 2000 EH_{135}	14.1	X	115.85117	271.72231	46.75108	6.57400	0.0572396	0.21676932	2.7445480	21	—	—
76306 2000 ES_{136}	14.9	X	147.60748	117.82436	44.57330	3.22478	0.1432627	0.20161599	2.8803996	21	8 18.8	19.5
76307 2000 EN_{137}	13.4	X	152.30886	242.72062	115.31448	10.22021	0.0725491	0.17908286	3.1172146	21	1 29.2	17.9
76308 2000 EO_{137}	14.4	X	305.01898	135.33957	144.31504	13.09713	0.1591983	0.23330426	2.6132900	21	3 26.5	18.0
76309 Ronferdie	14.3	X	308.72412	175.03493	69.99846	16.21109	0.0806463	0.23341542	2.6124603	21	3 2.9	18.1
76310 2000 EM_{138}	15.0	X	310.32770	115.88033	49.60520	10.95181	0.1212577	0.22317827	2.6917503	21	—	—
76311 2000 EP_{138}	15.3	X	27.15724	71.24828	68.63123	11.22074	0.1319535	0.23019839	2.6367434	21	1 30.9	18.3
76312 2000 ER_{138}	13.1	X	190.55708	143.20454	153.24383	22.81697	0.0430331	0.17648836	3.1476903	21	—	—
76313 2000 EU_{138}	14.0	X	273.01013	192.44450	96.46473	12.46070	0.0844546	0.18570773	3.0426317	21	3 18.5	18.6
76314 2000 EN_{139}	14.0	X	178.02267	309.96270	97.95070	12.67176	0.1536572	0.23768939	2.5810486	21	4 29.5	18.3
76315 2000 EP_{139}	15.2	X	268.54222	120.82287	78.47906	13.73220	0.1427515	0.22074959	2.7114574	21	—	—
76316 2000 EY_{140}	15.3	X	95.51272	75.60059	70.51574	7.05997	0.0573995	0.24173331	2.5521825	21	5 18.1	18.4
76317 2000 EZ_{140}	15.0	X	184.68382	211.87264	36.09267	9.95240	0.1698308	0.21737803	2.7394221	21	—	—
76318 2000 EY_{141}	13.4	X	247.27594	46.08321	153.32221	16.95307	0.0819768	0.17054132	3.2204481	21	—	—
76319 2000 ET_{142}	15.0	X	36.97287	192.74136	271.12728	11.88771	0.1389065	0.23056907	2.6339166	21	—	—
76320 2000 EN_{144}	14.3	X	84.42880	211.50628	264.19982	10.48423	0.1346522	0.23715853	2.5848989	21	3 27.8	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76321 2000 EJ_{145}	14.6	X	68.83690	257.81666	201.02031	8.56889	0.0769019	0.23026446	2.6362389	21	2 5.4	17.9
76322 2000 EP_{145}	14.8	X	352.77402	228.07154	340.02199	13.38208	0.0606725	0.23296582	2.6158203	21	3 8.6	17.9
76323 2000 ET_{145}	16.3	X	301.63428	328.28628	179.76052	0.84283	0.1435644	0.22123228	2.7075120	21	—	—
76324 2000 EX_{145}	14.6	X	253.82586	161.33535	150.01062	4.83954	0.1498496	0.19085641	2.9876626	21	3 12.6	19.2
76325 2000 EZ_{145}	14.9	X	349.14397	309.75029	302.14577	15.60463	0.1426086	0.23952864	2.5678190	21	4 16.1	18.1
76326 2000 EV_{147}	14.5	X	259.11300	219.89704	64.67849	14.43047	0.1232348	0.23119398	2.6291682	21	2 15.8	18.8
76327 2000 EE_{148}	14.0	X	75.93551	112.44135	13.68166	14.87041	0.0602558	0.23373683	2.6100648	21	3 26.3	17.3
76328 2000 EG_{148}	14.8	X	203.47259	209.73873	10.99433	9.86716	0.0905112	0.21456668	2.7632988	21	12 24.7	19.0
76329 2000 EH_{148}	14.9	X	43.74795	287.08872	183.83415	12.40155	0.1498288	0.22875569	2.6478179	21	1 16.2	17.8
76330 2000 EX_{148}	14.4	X	133.60363	89.23501	6.68554	12.14868	0.1581916	0.23818247	2.5774852	21	5 7.2	18.4
76331 2000 ED_{149}	14.6	X	259.91909	201.27903	36.55255	6.07080	0.1143422	0.18076621	3.0978322	21	—	—
76332 2000 EG_{149}	15.1	X	82.20393	42.96891	14.41329	3.25143	0.1888935	0.23204384	2.6227447	21	1 19.5	17.8
76333 2000 EV_{149}	14.3	X	160.31916	316.37757	102.88515	15.39743	0.1753100	0.23902642	2.5714147	21	4 29.6	18.7
76334 2000 EJ_{150}	14.8	X	54.55559	159.66629	248.87292	3.55030	0.1043912	0.22448214	2.6813172	21	—	—
76335 2000 EL_{150}	15.4	X	116.33601	290.81792	355.89657	5.27807	0.0346222	0.21508139	2.7588886	21	12 10.8	19.4
76336 2000 EO_{151}	14.7	X	324.15409	320.39271	253.99170	16.43247	0.1511530	0.23370390	2.6103099	21	1 18.5	18.4
76337 2000 EY_{152}	14.6	X	22.01630	118.13855	7.12662	10.59542	0.0556831	0.18208632	3.0828414	21	1 18.3	18.8
76338 2000 EC_{153}	14.2	X	219.44145	323.84442	348.46295	10.70639	0.1385648	0.18284709	3.0742842	21	2 13.5	19.2
76339 2000 EL_{153}	15.2	X	342.53597	228.90326	246.36053	5.60699	0.2102279	0.22381230	2.6866644	21	—	—
76340 2000 EH_{155}	14.3	X	278.06366	352.04538	215.34691	13.52314	0.1310444	0.17720359	3.1392148	21	—	—
76341 2000 EF_{156}	14.6	X	54.00895	56.37350	308.45362	8.11254	0.0066664	0.21552317	2.7551172	21	12 30.4	18.4
76342 2000 EC_{157}	15.3	X	63.10180	335.01387	134.29092	14.11675	0.1086165	0.23049530	2.6344785	21	2 17.6	18.2
76343 2000 EE_{157}	15.2	X	20.15461	16.40652	133.74093	15.46583	0.0391047	0.22887358	2.6469086	21	2 3.4	18.6
76344 2000 EJ_{157}	14.7	X	224.42708	189.36098	80.27207	15.74744	0.0705526	0.22317065	2.6918116	21	—	—
76345 2000 ES_{157}	14.4	X	250.92154	342.88336	211.93438	15.23734	0.1326452	0.21903927	2.7255536	21	—	—
76346 2000 EV_{157}	14.3	X	303.42544	337.87775	333.01488	9.16898	0.0768692	0.19336623	2.9617538	21	5 14.4	18.5
76347 2000 ET_{158}	13.4	X	221.14121	38.35051	280.43067	9.07324	0.1030837	0.18289366	3.0737624	21	2 17.6	18.3
76348 2000 EC_{159}	14.4	X	137.02482	177.42948	92.85031	14.01152	0.0887080	0.21627084	2.7487637	21	12 16.5	18.5
76349 2000 EQ_{161}	15.5	X	49.54697	3.82003	1.54221	3.15991	0.0864841	0.21719664	2.7409470	21	—	—
76350 2000 ES_{161}	15.9	X	273.30868	153.71387	18.78662	1.82190	0.0131000	0.22062160	2.7125059	21	—	—
76351 2000 EF_{164}	15.6	X	262.50723	260.62684	259.59121	1.26404	0.0546725	0.21743112	2.7389761	21	12 27.1	19.1
76352 2000 ER_{165}	14.8	X	149.15774	269.82535	355.06962	4.32741	0.0805798	0.21483066	2.7610347	21	12 21.6	19.1
76353 2000 EB_{166}	14.4	X	175.63383	342.01527	286.87896	0.20741	0.1362516	0.17138053	3.2099262	21	—	—
76354 2000 EG_{167}	15.8	X	2.12612	99.75365	100.93130	8.71408	0.1443549	0.23565394	2.5958897	21	3 10.9	18.6
76355 2000 EB_{168}	14.9	X	94.48074	335.00556	20.67731	15.13787	0.0897735	0.22209753	2.7004754	21	—	—
76356 2000 EE_{168}	14.4	X	174.67164	282.38134	80.14008	11.29225	0.0501684	0.18682328	3.0305077	21	3 1.3	19.0
76357 2000 EG_{168}	15.4	X	137.39900	48.23680	25.70449	14.06778	0.1470203	0.23966131	2.5668713	21	4 15.7	19.3
76358 2000 EW_{168}	13.5	X	337.26678	140.61861	64.19835	11.92869	0.1717337	0.18523019	3.0478589	21	2 10.7	17.5
76359 2000 EN_{169}	14.3	X	246.42416	135.02410	79.95559	15.79695	0.1970383	0.17460368	3.1703007	21	—	—
76360 2000 EV_{170}	14.4	X	91.28241	197.52603	119.03212	9.41771	0.2176066	0.21311318	2.7758490	21	—	—
76361 2000 EP_{171}	15.2	X	145.49660	57.38523	128.55167	11.71094	0.1561712	0.25128120	2.4871160	21	9 21.1	19.2
76362 2000 ES_{171}	14.8	X	266.33860	27.59329	96.00803	9.62235	0.1203388	0.21439128	2.7648058	21	11 9.0	18.5
76363 2000 EK_{173}	15.2	X	59.41559	325.44437	87.07188	13.13480	0.0921011	0.22511752	2.6762695	21	—	—
76364 2000 EP_{173}	15.0	X	21.64634	132.38595	83.50802	13.31898	0.2317513	0.23824780	2.5770140	21	5 14.8	17.1
76365 2000 ES_{173}	13.6	X	281.81387	115.27866	74.33790	17.45100	0.0726318	0.17691283	3.1426535	21	—	—
76366 2000 EY_{173}	14.9	X	161.77393	340.96930	94.04774	15.30402	0.0581495	0.24040376	2.5615837	21	5 11.9	18.7
76367 2000 ED_{174}	14.9	X	97.68945	35.39045	83.87401	15.36801	0.1345975	0.23768081	2.5811108	21	5 2.4	18.5
76368 2000 ES_{174}	14.3	X	43.35716	189.75891	318.16956	8.18145	0.0312188	0.18617164	3.0375752	21	3 9.2	18.4
76369 2000 EW_{176}	15.1	X	327.09156	314.68384	310.81425	14.93930	0.0857308	0.23858246	2.5746036	21	4 5.8	18.8
76370 2000 EC_{181}	14.2	X	265.57025	251.70102	52.66256	11.14777	0.0676864	0.19072821	2.9890012	21	3 29.3	18.6
76371 2000 EW_{181}	15.5	X	207.47383	131.49588	122.58805	14.66340	0.1777721	0.22069754	2.7118837	21	—	—
76372 2000 EA_{182}	14.8	X	281.66209	196.80642	106.44614	13.59663	0.1534438	0.23703838	2.5857723	21	4 1.3	18.8
76373 2000 EE_{182}	14.8	X	356.96114	4.88905	48.49226	11.34198	0.1839025	0.21990801	2.7183707	21	—	—
76374 2000 EM_{183}	14.2	X	170.26222	275.96289	40.37471	10.73404	0.0672156	0.17895636	3.1186835	21	—	—
76375 2000 EP_{183}	14.6	X	274.55371	116.07025	115.48078	12.22709	0.0652986	0.18105435	3.0945446	21	1 7.8	19.0
76376 2000 EO_{184}	14.7	X	153.00089	34.11487	37.75302	11.13569	0.0554308	0.19234463	2.9722318	21	4 25.8	19.1
76377 2000 EV_{184}	14.7	X	59.48889	353.84696	123.96638	10.43463	0.0523058	0.18623541	3.0368817	21	2 27.9	18.7
76378 2000 EW_{184}	15.5	X	5.91188	185.42707	40.59671	10.47830	0.1471275	0.23772425	2.5807963	21	4 20.9	17.9
76379 2000 EA_{190}	15.0	X	267.12988	148.12734	146.82501	1.37523	0.0865093	0.18843735	3.0131776	21	3 12.9	19.4
76380 2000 EP_{197}	15.3	X	142.01264	51.17377	7.23137	13.12232	0.1536368	0.23930650	2.5694079	21	3 31.8	19.1
76381 2000 ED_{198}	14.1	X	3.62129	271.02099	225.53499	8.61812	0.0686497	0.18121342	3.0927333	21	1 2.2	18.3
76382 2000 EM_{198}	13.9	X	164.82542	100.34536	311.98466	9.32488	0.1039876	0.19184132	2.9774280	21	4 12.9	18.7
76383 2000 EU_{199}	14.1	X	120.58252	60.06630	228.20815	8.26818	0.1375104	0.21611519	2.7500833	21	12 22.5	18.5
76384 2000 FE	14.2	X	272.55461	152.66851	75.23793	2.61041	0.0800719	0.17925557	3.1152121	21	—	—
76385 2000 FE_{3}	15.9	X	15.80077	52.84147	116.58285	5.35857	0.1968984	0.23275985	2.6173633	21	2 13.1	18.3
76386 2000 FF_{3}	14.8	X	197.22677	242.30445	25.55597	13.54541	0.1584094	0.21997692	2.7178030	21	—	—
76387 2000 FV_{5}	15.1	X	331.82521	66.98459	12.41455	8.00019	0.1884369	0.21597334	2.7512874	21	12 25.1	17.9
76388 2000 FB_{6}	15.2	X	2.70763	352.53787	192.23319	0.73636	0.0901964	0.18441690	3.0568132	21	2 28.6	18.9
76389 2000 FN_{6}	15.0	X	299.37500	64.50008	22.05796	5.51850	0.0894510	0.21107403	2.7936983	21	11 7.9	18.4
76390 2000 FQ_{6}	15.0	X	320.79778	109.11079	359.69969	4.52078	0.1185769	0.17150312	3.2083965	21	12 29.8	19.0
76391 2000 FP_{7}	14.2	X	331.24965	133.87419	116.75472	12.23949	0.1895756	0.18719149	3.0265323	21	3 30.5	18.1
76392 2000 FJ_{11}	14.7	X	213.96460	130.92969	40.13388	11.04457	0.1487662	0.21351583	2.7723581	21	10 30.7	19.0
76393 2000 FM_{11}	14.8	X	254.78859	99.20490	106.06093	14.24353	0.1474407	0.22191968	2.7019181	21	—	—
76394 2000 FN_{11}	14.6	X	236.36750	151.52864	31.10488	17.98784	0.0604211	0.21805744	2.7337289	21	12 18.8	18.7
76395 2000 FB_{12}	14.2	X	9.95092	155.17386	65.30119	11.76327	0.0388300	0.19334402	2.9619806	21	4 30.2	18.1
76396 2000 FH_{12}	14.3	X	289.67845	172.80992	29.13804	15.66738	0.0598510	0.18035762	3.1025090	21	—	—
76397 2000 FN_{12}	14.8	X	328.21941	53.63163	84.30402	12.73800	0.1431543	0.22426252	2.6830674	21	—	—
76398 2000 FO_{12}	14.7	X	160.96505	274.23152	72.16921	13.92474	0.0437074	0.22858126	2.6491648	21	1 12.9	18.5
76399 2000 FP_{12}	14.5	X	105.08398	297.96961	124.56998	14.35976	0.0845282	0.23215203	2.6219298	21	2 14.4	17.9
76400 2000 FR_{12}	13.2	X	219.10041	125.70035	99.40120	14.61964	0.0769949	0.17314228	3.1881149	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76401 2000 FY_{12}	15.1	X	91.55394	20.54626	102.11523	13.83760	0.0678442	0.23728673	2.5839677	21	4 19.3	18.7
76402 2000 FZ_{12}	13.8	X	222.90600	244.47986	57.30670	16.59009	0.0628606	0.22945093	2.6424666	21	2 1.5	18.0
76403 2000 FC_{13}	15.5	X	276.66772	116.59745	69.57730	13.79164	0.1563241	0.22152511	2.7051255	21	—	—
76404 2000 FG_{13}	15.2	X	356.93654	55.05083	139.94839	18.01281	0.1395147	0.23227003	2.6210417	21	2 19.3	18.0
76405 2000 FM_{13}	14.8	X	182.41347	34.10108	111.05477	14.21210	0.1010657	0.25133725	2.4867463	21	9 6.6	18.7
76406 2000 FO_{13}	14.8	X	345.39334	66.22154	116.86048	15.28279	0.0450557	0.23010692	2.6374421	21	1 28.5	18.1
76407 2000 FP_{13}	14.9	X	78.76710	339.37775	118.84108	15.33086	0.0722705	0.23223402	2.6213126	21	2 24.4	18.3
76408 2000 FS_{13}	14.3	X	292.53656	357.27392	104.76883	15.29773	0.1193151	0.21447824	2.7640584	21	11 21.1	17.9
76409 2000 FU_{13}	14.4	X	95.58003	289.68026	140.51615	15.60938	0.1382697	0.22965562	2.6408962	21	2 19.2	17.6
76410 2000 FC_{15}	14.9	X	354.11858	128.45459	125.08433	5.56877	0.0654638	0.24039659	2.5616346	21	5 15.3	18.0
76411 2000 FQ_{16}	14.8	X	191.06561	120.51272	130.45871	10.58572	0.2321475	0.21653147	2.7465576	21	—	—
76412 2000 FJ_{17}	15.3	X	348.90302	138.20493	108.25992	5.70564	0.1586257	0.23656281	2.5892366	21	4 18.7	18.0
76413 2000 FU_{17}	13.9	X	14.19181	59.89620	74.32977	11.02863	0.0892509	0.18169030	3.0873194	21	1 15.0	17.9
76414 2000 FV_{17}	14.0	X	300.04388	222.11332	69.20737	10.91401	0.0536947	0.19065932	2.9897212	21	4 24.9	18.2
76415 2000 FA_{18}	15.2	X	117.47578	298.57908	125.00763	12.31539	0.1728526	0.23366658	2.6105879	21	3 19.3	19.0
76416 2000 FU_{18}	14.5	X	192.70453	289.56877	75.09612	10.70848	0.0267320	0.18671603	3.0316680	21	3 23.9	19.0
76417 2000 FW_{18}	15.1	X	183.57894	125.30989	110.62228	10.44049	0.0487627	0.21497061	2.7598363	21	12 25.4	19.0
76418 2000 FF_{19}	14.4	X	58.30904	4.93551	80.62225	10.87987	0.0340618	0.18020177	3.1042976	21	1 16.0	18.6
76419 2000 FJ_{19}	14.8	X	103.73094	261.25472	78.10144	10.14204	0.0618350	0.21782758	2.7356517	21	—	—
76420 2000 FN_{19}	15.2	X	136.48045	337.77515	73.93087	9.95469	0.1843828	0.23520949	2.5991589	21	3 27.4	19.3
76421 2000 FA_{20}	14.2	X	313.61930	135.96188	103.19756	10.44075	0.0384390	0.18625257	3.0366952	21	3 11.4	18.5
76422 2000 FD_{21}	15.0	X	187.90216	265.76260	143.54214	15.35366	0.1022585	0.23980922	2.5658157	21	5 9.5	19.2
76423 2000 FE_{21}	13.9	X	217.58125	259.48885	70.67120	11.22067	0.0526277	0.18553984	3.0444669	21	3 10.1	18.6
76424 2000 FH_{21}	14.8	X	231.69527	120.76269	98.09608	8.27539	0.1609895	0.21861697	2.7290624	21	—	—
76425 2000 FR_{21}	15.4	X	223.32522	144.79050	107.07898	9.37022	0.1407241	0.22097011	2.7096531	21	—	—
76426 2000 FT_{21}	15.0	X	324.84166	182.93376	87.24389	8.77968	0.1691136	0.23560311	2.5962631	21	4 10.7	18.1
76427 2000 FJ_{22}	13.9	X	341.02077	93.65917	27.63727	16.05711	0.0355568	0.17567150	3.1574406	21	—	—
76428 2000 FL_{22}	14.5	X	272.61250	210.90823	104.64996	12.50649	0.0778561	0.18959576	3.0008916	21	4 20.4	19.0
76429 2000 FG_{23}	13.7	X	322.75103	132.50587	112.38798	11.72940	0.0971159	0.18603822	3.0390273	21	3 23.4	17.9
76430 2000 FL_{23}	15.0	X	274.73514	60.10102	90.17197	12.79363	0.1159372	0.21679297	2.7443485	21	12 23.1	18.1
76431 2000 FU_{23}	14.9	X	266.24346	54.37820	89.42370	13.17937	0.0814488	0.21452534	2.7636539	21	12 7.9	18.5
76432 2000 FB_{24}	13.8	X	306.90624	242.92389	68.04919	18.20638	0.3146798	0.19015589	2.9949957	21	4 23.6	18.1
76433 2000 FM_{24}	14.4	X	125.75228	11.05151	96.55680	12.41785	0.0725571	0.19135602	2.9824600	21	5 14.5	18.9
76434 2000 FO_{24}	14.5	X	206.25463	267.44804	108.16319	10.63056	0.1008370	0.18992259	2.9974478	21	4 19.5	19.3
76435 2000 FT_{25}	15.3	X	236.97435	0.10997	92.66918	3.23829	0.0177508	0.20304728	2.8668475	21	9 4.1	19.2
76436 2000 FT_{28}	14.2	X	119.69583	249.14330	212.88388	10.07686	0.0675729	0.19039651	2.9924718	21	4 26.1	18.3
76437 2000 FD_{29}	14.0	X	102.77016	233.40334	208.64635	11.45728	0.0118804	0.18392465	3.0622649	21	2 28.8	18.4
76438 2000 FE_{29}	14.5	X	124.10613	257.01571	206.93409	11.47461	0.1176213	0.19126891	2.9833654	21	5 10.6	18.9
76439 2000 FP_{29}	14.7	X	161.96829	245.15106	199.49819	1.97855	0.0878682	0.19334846	2.9619353	21	5 24.0	19.2
76440 2000 FY_{30}	14.8	X	31.78456	81.73631	20.77747	13.73605	0.1657359	0.22942429	2.6426711	21	—	—
76441 2000 FB_{31}	14.5	X	135.82991	211.29059	49.65601	9.76255	0.1572387	0.21248941	2.7812788	21	12 3.6	19.0
76442 2000 FO_{31}	14.9	X	328.62390	176.12945	81.25479	9.37823	0.1593537	0.23578562	2.5949232	21	4 1.0	18.1
76443 2000 FS_{31}	15.2	X	358.11892	73.97001	47.62777	11.58700	0.2148876	0.22653019	2.6651316	21	—	—
76444 2000 FA_{32}	14.4	X	215.45455	171.09579	57.38640	14.74072	0.1436877	0.21801395	2.7340925	21	—	—
76445 2000 FO_{32}	13.9	X	272.49331	304.24278	22.18283	10.57536	0.0986555	0.19082976	2.9879407	21	4 23.6	18.3
76446 2000 FT_{32}	14.4	X	331.52087	3.45884	172.82682	12.27097	0.0814606	0.18011322	3.1053150	21	1 6.5	18.8
76447 2000 FY_{32}	14.4	X	167.14146	206.48808	91.33005	14.18707	0.0878368	0.22050913	2.7134282	21	—	—
76448 2000 FD_{33}	14.1	X	335.56595	64.51770	140.95535	17.08446	0.1907105	0.18350419	3.0669408	21	2 1.6	18.0
76449 2000 FL_{33}	13.9	X	334.96497	138.75426	111.00513	12.25561	0.0636156	0.19010370	2.9955437	21	4 20.3	18.1
76450 2000 FL_{34}	14.1	X	148.85577	340.48491	65.03901	16.26109	0.1094328	0.23411797	2.6072312	21	3 28.9	18.2
76451 2000 FB_{36}	14.2	X	223.56713	140.87708	107.33311	14.75428	0.0222053	0.17490114	3.1667051	21	—	—
76452 2000 FO_{36}	13.8	X	139.74016	283.00433	169.48452	10.79386	0.0659497	0.19147146	2.9812612	21	5 9.9	18.3
76453 2000 FT_{36}	15.0	X	281.33321	16.36436	58.61573	2.88527	0.0443876	0.20700769	2.8301648	21	10 5.1	18.6
76454 2000 FM_{37}	14.3	X	5.85661	71.87059	77.16799	6.23553	0.0694699	0.18095079	3.0957251	21	1 22.9	18.4
76455 2000 FA_{38}	16.0	X	67.18207	34.23741	78.31867	6.03964	0.2670049	0.23365999	2.6106369	21	3 26.2	18.6
76456 2000 FL_{38}	14.4	X	325.05639	158.88745	24.01801	17.83213	0.1503630	0.17965138	3.1106347	21	—	—
76457 2000 FV_{38}	13.8	X	127.46020	225.87427	179.14500	13.30203	0.1675100	0.18377197	3.0639607	21	3 7.6	18.4
76458 2000 FA_{39}	15.0	X	255.60133	177.85298	40.58556	8.62025	0.1058306	0.22085041	2.7106321	21	—	—
76459 2000 FE_{41}	14.4	X	272.10964	240.22108	180.33769	14.96111	0.1366799	0.20379994	2.8597848	21	8 16.5	18.4
76460 2000 FQ_{41}	15.0	X	4.72323	83.86132	46.57257	12.28815	0.1436096	0.22564524	2.6720953	21	—	—
76461 2000 FH_{44}	13.9	X	214.22967	291.72095	25.68916	10.83548	0.0737806	0.18296422	3.0729720	21	2 18.1	18.7
76462 2000 FP_{44}	13.7	X	200.70534	284.14517	21.14309	16.21173	0.1635350	0.17779663	3.1322304	21	1 23.7	19.1
76463 2000 FZ_{45}	15.7	X	31.04966	61.26496	93.43000	8.38636	0.1466372	0.23215620	2.6218984	21	2 28.5	18.4
76464 2000 FP_{46}	14.2	X	320.98959	21.23771	163.80851	13.81613	0.0329583	0.17900986	3.1180620	21	1 10.5	18.8
76465 2000 FQ_{46}	14.9	X	47.17715	320.14031	168.07914	13.67079	0.1274802	0.23094404	2.6310648	21	2 15.1	17.7
76466 2000 FD_{47}	14.2	X	246.63799	287.22891	86.96157	11.12320	0.0724111	0.19416831	2.9535918	21	5 29.3	18.5
76467 2000 FP_{48}	14.4	X	318.06505	309.34961	241.33040	15.71843	0.1720361	0.17928754	3.1148417	21	—	—
76468 2000 FY_{55}	15.5	X	357.51612	283.49413	173.45955	12.79127	0.1412962	0.22184057	2.7025604	21	—	—
76469 2000 FY_{56}	15.0	X	289.04548	341.82452	74.05004	6.08932	0.0809805	0.20567843	2.8423456	21	9 17.9	18.7
76470 2000 FC_{57}	14.3	X	6.50440	134.83263	283.69752	3.90115	0.0081184	0.21759613	2.7375912	21	—	—
76471 2000 FD_{57}	13.9	X	204.10096	32.92340	325.87260	9.60212	0.1105228	0.18898960	3.0073048	21	3 19.7	18.7
76472 2000 FP_{57}	15.1	X	355.86906	343.70961	85.08473	3.81735	0.0883315	0.21773619	2.7364171	21	—	—
76473 2000 FR_{57}	14.9	X	242.46893	114.70269	80.13059	3.79950	0.0367323	0.21789114	2.7351197	21	—	—
76474 2000 FK_{58}	14.4	X	49.00117	267.05481	90.17770	7.16039	0.0133399	0.21437887	2.7649125	21	12 14.9	18.0
76475 2000 FQ_{58}	15.0	X	72.83274	328.91170	82.37991	13.53332	0.1575268	0.22686721	2.6624915	21	—	—
76476 2000 FU_{58}	14.9	X	315.67869	24.60069	36.01925	10.25982	0.0708564	0.21160793	2.7889973	21	10 31.9	18.4
76477 2000 FB_{59}	15.3	X	348.38579	63.82435	40.44749	10.44657	0.1900160	0.22403545	2.6848800	21	—	—
76478 2000 FL_{60}	14.5	X	315.20627	277.69128	104.52665	6.14532	0.1173790	0.20448750	2.8533708	21	9 7.3	17.9
76479 2000 FF_{62}	14.5	X	232.11703	276.73503	337.37421	9.59633	0.0631371	0.17685080	3.1433882	21	—	—
76480 2000 FH_{63}	14.2	X	143.05343	228.75353	232.72752	8.44985	0.0313110	0.19298371	2.9656663	21	5 19.2	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76481 2000 FW_{63}	15.1	X	286.82851	1.76090	104.81598	6.28679	0.1196463	0.21399280	2.7682370	21	11 15.1	18.4
76482 2000 FJ_{64}	14.7	X	291.64005	279.14087	171.48945	6.39434	0.0118067	0.20930393	2.8094273	21	11 12.5	18.5
76483 2000 FS_{65}	15.0	X	327.62740	219.94685	209.21122	8.11140	0.2020186	0.21365101	2.7711886	21	12 1.2	17.6
76484 2000 FQ_{68}	14.6	X	186.33771	306.83056	17.96774	8.75987	0.0537027	0.18023569	3.1039081	21	1 27.1	19.3
76485 2000 FS_{71}	14.5	X	7.58980	353.45764	192.52470	10.52144	0.0664639	0.18907684	3.0063797	21	3 8.2	18.3
76486 2000 FY_{72}	15.0	X	346.03170	16.78374	36.78558	11.09505	0.1155684	0.21530859	2.7569474	21	12 9.7	18.3
76487 2000 FU_{73}	15.0	X	327.72612	210.57211	68.33602	9.85079	0.0181454	0.24193506	2.5507634	21	5 14.5	18.3
76488 2000 GG	15.0	X	166.70623	2.33431	43.68849	1.81338	0.1493772	0.18961905	3.0006458	21	4 14.6	19.9
76489 2000 GC_{5}	15.1	X	286.18601	123.32630	9.39629	9.24551	0.1154501	0.21797691	2.7344021	21	12 17.4	18.5
76490 2000 GH_{7}	15.6	X	295.43308	293.54145	167.48369	9.59763	0.1266221	0.21353219	2.7722165	21	11 20.8	19.0
76491 2000 GN_{7}	15.0	X	19.13893	333.68485	158.65086	13.22079	0.2108941	0.22780851	2.6551522	21	—	—
76492 2000 GS_{9}	14.8	X	78.55330	213.93446	182.04592	13.90305	0.1997447	0.22521363	2.6755081	21	—	—
76493 2000 GZ_{9}	15.0	X	34.73238	32.23862	1.02046	9.47595	0.2168268	0.21979436	2.7193077	21	—	—
76494 2000 GK_{10}	14.9	X	35.36576	351.97660	23.77555	4.75198	0.0655204	0.21539384	2.7562199	21	12 28.5	18.6
76495 2000 GR_{10}	15.4	X	343.09025	239.90034	189.66457	13.66932	0.1873394	0.21774906	2.7363093	21	—	—
76496 2000 GM_{13}	14.5	X	92.28189	32.83125	1.65726	11.80074	0.0791097	0.17802317	3.1295725	21	1 4.6	19.0
76497 2000 GJ_{16}	15.3	X	312.65839	101.96878	351.97767	3.14944	0.0631510	0.21435873	2.7650857	21	12 10.7	18.8
76498 2000 GC_{17}	14.4	X	81.88652	125.05025	15.91028	10.46859	0.0570150	0.19026134	2.9938889	21	4 24.1	18.6
76499 2000 GZ_{17}	14.7	X	272.78640	191.22235	177.49418	5.62878	0.2066553	0.24337776	2.5406731	21	6 2.4	18.4
76500 2000 GP_{21}	15.1	X	51.15550	269.03035	185.26079	1.82632	0.1763346	0.18207809	3.0829342	21	1 25.3	18.6
76501 2000 GH_{25}	15.1	X	250.83847	83.45858	349.13475	1.47391	0.0306075	0.20198896	2.8768527	21	8 23.4	19.1
76502 2000 GV_{26}	14.4	X	205.46774	358.22368	22.08212	11.31421	0.1108376	0.18983185	2.9984030	21	4 18.4	19.0
76503 2000 GL_{27}	15.4	X	279.18112	221.58357	169.40625	2.11383	0.0828352	0.20046705	2.8913948	21	7 28.2	19.2
76504 2000 GN_{28}	15.0	X	225.73732	105.14718	349.97540	1.26801	0.0416136	0.20173664	2.8792510	21	8 19.5	19.0
76505 2000 GU_{28}	13.9	X	218.51464	260.59862	11.40476	8.53126	0.0658671	0.17569091	3.1572079	21	—	—
76506 2000 GV_{28}	15.0	X	17.99850	273.85045	351.97289	1.56256	0.0223182	0.19639110	2.9312634	21	7 7.5	18.8
76507 2000 GX_{28}	15.2	X	167.06217	137.60997	326.86486	0.93353	0.0768971	0.19632937	2.9318778	21	6 22.8	19.6
76508 2000 GZ_{29}	15.3	X	95.98034	245.60715	353.63127	1.66229	0.0108394	0.20294346	2.8678252	21	9 13.6	19.0
76509 2000 GQ_{32}	15.0	X	350.56676	4.60775	191.69684	3.31569	0.0881148	0.23062385	2.6334995	21	2 15.3	18.0
76510 2000 GJ_{33}	14.8	X	172.67843	127.29189	356.89603	2.10082	0.1751749	0.20023936	2.8935861	21	7 25.3	19.5
76511 2000 GT_{33}	15.3	X	291.69478	212.71285	338.81579	1.87750	0.1816949	0.17594206	3.1542028	21	—	—
76512 2000 GL_{35}	15.1	X	292.95018	113.01346	17.28084	7.90293	0.1239098	0.21622578	2.7491456	21	12 24.3	18.4
76513 2000 GY_{36}	14.7	X	261.12092	354.07607	18.03092	7.99712	0.0639154	0.19555630	2.9395996	21	6 12.1	19.0
76514 2000 GF_{39}	14.3	X	46.48530	12.71550	21.99143	17.02631	0.0968220	0.17060530	3.2196429	21	—	—
76515 2000 GQ_{39}	14.2	X	231.25545	280.74936	21.69465	9.33435	0.0718271	0.18096647	3.0955464	21	2 17.4	18.9
76516 2000 GX_{39}	14.9	X	309.69624	178.76753	28.84443	1.04376	0.1227925	0.17959213	3.1113189	21	1 12.5	19.3
76517 2000 GT_{44}	14.8	X	205.85596	156.09760	30.23421	8.40654	0.1524118	0.21093915	2.7948891	21	11 8.1	19.2
76518 2000 GY_{45}	14.9	X	212.74021	22.51738	51.32434	3.05971	0.0972108	0.19773847	2.9179327	21	7 2.9	19.4
76519 2000 GN_{46}	14.3	X	356.44433	290.33835	206.09209	4.41530	0.1071754	0.17802945	3.1294990	21	—	—
76520 2000 GS_{46}	14.9	X	94.40684	181.10673	316.57991	0.32823	0.1477904	0.19141093	2.9818896	21	5 21.5	19.0
76521 2000 GK_{47}	14.2	X	221.05433	42.87958	212.08342	4.82787	0.1252843	0.17259059	3.1949052	21	—	—
76522 2000 GD_{51}	14.0	X	84.03518	185.50442	193.60396	14.56581	0.1105007	0.17240527	3.1971943	21	—	—
76523 2000 GH_{51}	14.4	X	37.49804	32.73503	47.66152	5.11048	0.1872473	0.22373691	2.6872678	21	—	—
76524 2000 GV_{52}	13.8	X	208.92757	329.46844	19.17964	12.79081	0.1659788	0.18318044	3.0705534	21	3 18.7	18.9
76525 2000 GO_{53}	14.9	X	324.97911	226.98385	237.25281	1.00697	0.0991848	0.16981284	3.2296517	21	12 30.2	19.0
76526 2000 GS_{54}	14.7	X	119.16851	102.93844	358.31410	2.04812	0.0581119	0.18838488	3.0137370	21	4 22.7	19.0
76527 2000 GC_{56}	14.9	X	277.07809	121.46956	36.56082	8.77314	0.1464672	0.21688379	2.7435823	21	—	—
76528 2000 GB_{59}	14.3	X	43.91468	49.18982	28.35717	13.25002	0.1626354	0.22292932	2.6937539	21	—	—
76529 2000 GA_{60}	15.2	X	313.42502	27.22135	186.41985	3.93918	0.2066581	0.22687115	2.6624606	21	1 2.3	19.0
76530 2000 GE_{65}	15.1	X	67.02290	327.46174	160.13417	2.82494	0.1623754	0.18624439	3.0367841	21	4 4.1	18.9
76531 2000 GT_{65}	14.3	X	183.09680	2.04990	29.36231	10.79956	0.0760712	0.18643940	3.0346661	21	4 11.3	18.9
76532 2000 GX_{71}	14.8	X	287.01932	51.50163	160.20793	2.04040	0.1520601	0.17585669	3.1552235	21	—	—
76533 2000 GB_{73}	14.6	X	314.30023	129.45307	31.02722	6.12451	0.1258767	0.17430622	3.1739064	21	—	—
76534 2000 GF_{73}	14.2	X	299.77045	308.73480	215.18221	9.39497	0.0684504	0.17208694	3.2011358	21	—	—
76535 2000 GM_{73}	14.4	X	69.65407	85.74630	28.47606	10.19836	0.0591802	0.18260981	3.0769467	21	3 12.2	18.6
76536 2000 GU_{74}	15.1	X	206.29215	105.69130	36.62223	11.25279	0.0753429	0.20390386	2.8588130	21	9 26.7	19.4
76537 2000 GJ_{76}	15.1	X	210.23047	178.20810	24.32889	9.72696	0.1784344	0.21189852	2.7864469	21	11 28.6	19.6
76538 2000 GO_{76}	13.9	X	282.78427	307.71609	217.75667	20.16183	0.1130963	0.17044045	3.2217185	21	—	—
76539 2000 GN_{78}	14.8	X	98.27857	46.15936	24.98339	9.84683	0.0771822	0.18096284	3.0955877	21	2 27.2	19.2
76540 2000 GL_{79}	14.7	X	60.69906	70.67946	41.71470	11.32469	0.0086164	0.18017498	3.1046053	21	2 23.3	19.2
76541 2000 GX_{79}	14.3	X	293.74482	217.56388	222.53317	11.09726	0.0772489	0.20971974	2.8057126	21	10 23.3	17.7
76542 2000 GC_{81}	14.6	X	322.96880	34.30826	115.33470	2.26510	0.1232171	0.17534010	3.1614177	21	—	—
76543 2000 GD_{81}	14.9	X	239.46536	28.24932	150.21137	13.43087	0.0860252	0.21217273	2.7840455	21	12 16.1	19.0
76544 2000 GZ_{82}	15.0	X	281.02982	60.26227	90.63693	12.50627	0.0609398	0.21916497	2.7245114	21	—	—
76545 2000 GE_{83}	14.3	X	159.96749	166.80464	121.73044	14.38190	0.1377815	0.21845396	2.7304199	21	—	—
76546 2000 GF_{83}	14.2	X	138.48460	334.21475	39.15373	22.55641	0.0566381	0.22901730	2.6458010	21	1 27.4	18.4
76547 2000 GS_{83}	15.2	X	234.73371	30.91671	116.74508	5.55611	0.0929206	0.21228583	2.7830566	21	11 2.0	19.1
76548 2000 GV_{84}	14.6	X	61.76461	338.49429	118.51468	13.75306	0.1301441	0.22873066	2.6480110	21	1 31.7	17.4
76549 2000 GG_{85}	13.7	X	66.90490	301.22031	117.36365	14.19624	0.1841447	0.22415726	2.6839073	21	—	—
76550 2000 GH_{85}	14.7	X	27.88913	337.28906	102.50746	15.50628	0.2370257	0.22359387	2.6884138	21	—	—
76551 2000 GG_{88}	14.0	X	50.33014	230.66301	186.81982	21.73738	0.0444194	0.17351524	3.1835448	21	—	—
76552 2000 GM_{88}	14.1	X	337.14606	52.58914	79.21165	7.50239	0.1070597	0.17502900	3.1651628	21	—	—
76553 2000 GD_{89}	14.2	X	127.92784	51.92703	55.23357	9.48608	0.0483317	0.19053261	2.9910465	21	5 10.4	18.4
76554 2000 GK_{93}	14.1	X	333.61315	80.26881	77.42807	11.14141	0.0382539	0.17706547	3.1408471	21	—	—
76555 2000 GW_{93}	14.7	X	359.98888	129.51489	54.16611	16.50173	0.1127844	0.23038699	2.6353042	21	2 20.3	18.1
76556 2000 GV_{94}	15.2	X	358.98676	332.42455	216.27150	11.52598	0.1726068	0.18290542	3.0736305	21	2 17.0	18.9
76557 2000 GB_{95}	14.7	X	44.12566	199.40571	0.04923	9.09519	0.1207641	0.19040304	2.9924034	21	5 24.2	18.5
76558 2000 GC_{97}	15.4	X	71.83928	79.78384	8.27011	11.21686	0.1541414	0.23145272	2.6272084	21	2 11.9	18.4
76559 2000 GF_{97}	14.0	X	60.62898	94.73212	336.01307	8.56310	0.0599490	0.22573769	2.6713656	21	—	—
76560 2000 GR_{98}	14.4	X	197.68292	68.23853	0.15652	11.78868	0.0117800	0.19466109	2.9486051	21	6 11.0	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76561 2000 GG_{99}	14.4	X	82.54450	220.36851	225.46493	8.57401	0.0879972	0.18282101	3.0745765	21	2 18.2	18.6
76562 2000 GW_{101}	15.1	X	48.74106	285.98224	204.95488	14.79972	0.1534145	0.23226716	2.6210633	21	2 20.0	18.1
76563 2000 GT_{103}	15.1	X	310.80308	46.99030	86.73013	3.65784	0.0188256	0.21724857	2.7405102	21	—	—
76564 2000 GO_{105}	14.0	X	301.52636	0.57721	45.19292	10.01777	0.1293916	0.20483091	2.8501806	21	9 18.2	17.6
76565 2000 GR_{106}	15.0	X	93.77067	159.39874	353.21268	2.71606	0.1728351	0.23899014	2.5716749	21	6 10.9	18.5
76566 2000 GB_{107}	15.2	X	10.39165	192.57812	64.98729	5.31619	0.1696369	0.23765866	2.5812711	21	6 17.7	17.4
76567 2000 GD_{107}	14.4	X	344.75350	164.79677	62.32230	5.45303	0.1305776	0.18472224	3.0534438	21	3 26.6	18.2
76568 2000 GC_{111}	14.6	X	55.87150	85.11526	354.21735	11.11255	0.1699462	0.22684360	2.6626762	21	—	—
76569 2000 GE_{111}	14.5	X	166.21475	9.79675	337.58872	3.95325	0.0572885	0.18012297	3.1052029	21	1 30.2	19.0
76570 2000 GF_{111}	13.8	X	184.39487	175.92419	170.77773	10.85668	0.1716775	0.18162171	3.0880965	21	2 19.9	18.9
76571 2000 GL_{112}	15.6	X	354.63379	318.65907	170.53282	23.48304	0.1814941	0.27475697	2.3433486	21	—	—
76572 2000 GX_{113}	15.1	X	288.42112	331.79618	310.76221	3.82533	0.2968961	0.18211355	3.0825340	21	2 23.9	20.1
76573 2000 GH_{114}	15.1	X	341.87378	313.96249	250.30361	3.56367	0.1364239	0.18319231	3.0704208	21	2 15.9	18.9
76574 2000 GM_{114}	14.0	X	165.41356	72.95184	7.77233	15.24160	0.0761048	0.19263953	2.9691977	21	5 16.9	18.7
76575 2000 GB_{115}	14.4	X	220.95793	340.80109	68.64583	3.08090	0.0885190	0.19786305	2.9167078	21	6 11.1	18.8
76576 2000 GP_{118}	15.6	X	16.09245	175.61555	225.65649	2.20716	0.0727580	0.21698635	2.7427177	21	—	—
76577 2000 GK_{122}	15.1	X	294.86539	274.40314	22.93471	8.49588	0.0762623	0.18791468	3.0187623	21	4 18.7	19.2
76578 2000 GW_{123}	14.1	X	296.67695	145.77526	61.04061	11.38643	0.2087890	0.17659067	3.1464744	21	—	—
76579 2000 GN_{124}	14.7	X	92.84588	8.54674	121.50536	7.64003	0.2255049	0.23608929	2.5926976	21	5 20.8	18.3
76580 2000 GJ_{132}	14.3	X	17.71942	81.82339	61.40129	23.07739	0.0692816	0.17870146	3.1216484	21	2 8.5	18.8
76581 2000 GC_{135}	13.5	X	126.09480	226.46810	102.53703	10.32471	0.1330495	0.16959972	3.2323568	21	—	—
76582 2000 GV_{135}	15.1	X	213.29266	129.58127	102.40338	8.11121	0.0541305	0.21573849	2.7532837	21	—	—
76583 2000 GF_{136}	12.8	X	113.77113	157.50487	193.24066	21.27191	0.0226207	0.17006717	3.2264311	21	—	—
76584 2000 GC_{138}	15.0	X	192.79901	27.20130	93.34587	3.36461	0.0251535	0.19981081	2.8977221	21	8 13.9	19.2
76585 2000 GA_{140}	14.4	X	172.54217	26.38967	56.02693	10.88682	0.0695423	0.19332654	2.9621592	21	5 30.8	18.8
76586 2000 GW_{141}	13.9	X	70.69824	183.59316	128.09240	13.83849	0.0207730	0.16154963	3.3388641	21	11 12.4	18.9
76587 2000 GZ_{141}	14.8	X	325.10068	110.84085	147.45692	13.48679	0.1605698	0.23217622	2.6217477	21	3 26.1	18.1
76588 2000 GK_{142}	13.9	X	342.51616	210.38333	81.91322	14.14453	0.1951476	0.19146303	2.9813486	21	6 10.4	17.0
76589 2000 GQ_{142}	14.6	X	56.26267	59.38656	70.43596	13.87133	0.1104988	0.23065471	2.6332646	21	3 14.2	17.9
76590 2000 GU_{142}	14.3	X	29.41544	359.94151	155.57268	11.25867	0.0447745	0.22903336	2.6456774	21	2 23.4	17.6
76591 2000 GJ_{143}	14.0	X	109.76934	288.98051	53.77434	16.82259	0.0716488	0.16976435	3.2302668	21	—	—
76592 2000 GO_{148}	14.8	X	111.27151	38.54260	342.29469	4.59171	0.1433419	0.18026220	3.1036038	21	1 19.5	19.1
76593 2000 GU_{154}	14.9	X	305.26598	322.66937	215.18758	14.30217	0.0522455	0.17645087	3.1481362	21	—	—
76594 2000 GB_{155}	14.5	X	191.92246	342.51947	350.35431	9.42189	0.0758682	0.18038038	3.1022481	21	2 11.6	19.3
76595 2000 GL_{157}	15.2	X	342.83786	313.04359	255.57317	12.19530	0.2556339	0.23213360	2.6220685	21	1 22.7	18.5
76596 2000 GN_{157}	14.3	X	225.49426	190.63642	310.16089	16.17462	0.0517980	0.21045773	2.7991497	21	10 6.8	18.6
76597 2000 GP_{157}	14.7	X	152.06973	142.22522	311.27339	12.56271	0.1880228	0.24290627	2.5439597	21	5 26.9	19.0
76598 2000 GS_{157}	14.1	X	141.40853	217.29396	158.17480	11.34881	0.0989762	0.18275956	3.0752657	21	2 7.8	18.6
76599 2000 GU_{157}	15.0	X	89.31024	119.82845	129.84380	6.29049	0.0729165	0.20469523	2.8514400	21	9 29.8	19.1
76600 2000 GB_{159}	14.8	X	140.01097	94.65822	7.31519	9.65092	0.0744230	0.19231335	2.9725541	21	5 17.5	19.3
76601 2000 GL_{159}	14.2	X	265.58099	334.10045	226.01881	16.09139	0.1744173	0.17428705	3.1741392	21	—	—
76602 2000 GS_{159}	15.0	X	31.49331	195.98033	358.22334	13.41086	0.1003359	0.23583880	2.5945331	21	4 16.5	18.0
76603 2000 GY_{159}	14.6	X	90.23396	123.63179	2.90551	16.78731	0.1269498	0.18954027	3.0014772	21	4 23.1	18.9
76604 2000 GW_{160}	14.7	X	97.78125	323.57071	111.29612	10.84605	0.0571851	0.18225969	3.0808860	21	2 26.9	19.0
76605 2000 GX_{161}	14.3	X	97.85354	352.87324	102.01877	11.10285	0.0116596	0.18305724	3.0719309	21	3 19.4	18.8
76606 2000 GC_{162}	15.1	X	10.89963	101.63721	77.41873	7.59173	0.1397202	0.18432363	3.0578444	21	3 8.2	18.7
76607 2000 GN_{162}	15.4	X	179.04086	328.36413	115.40402	6.66064	0.1953777	0.24449548	2.5329240	21	6 10.4	19.6
76608 2000 GK_{163}	13.6	X	108.61087	214.20853	258.99862	9.19512	0.0478712	0.18932557	3.0037460	21	4 21.2	17.9
76609 2000 GQ_{163}	15.0	X	48.24547	308.18452	144.96450	13.28482	0.1493590	0.22495794	2.6775351	21	1 3.3	18.0
76610 2000 GU_{164}	14.8	X	33.13275	85.80451	76.35652	11.15662	0.0724947	0.18452383	3.0556322	21	3 24.3	18.9
76611 2000 GY_{165}	14.6	X	293.58855	217.06853	122.12651	2.86347	0.0699115	0.19679592	2.9272422	21	6 11.6	18.5
76612 2000 GB_{167}	15.0	X	238.52283	203.57651	320.55565	19.20563	0.1128535	0.21506558	2.7590237	21	11 16.9	19.3
76613 2000 GQ_{167}	14.3	X	5.54612	4.54141	206.73008	10.22307	0.0813171	0.19074575	2.9888180	21	4 7.2	17.9
76614 2000 GY_{167}	14.6	X	301.08906	279.39022	38.09602	12.37764	0.0963895	0.19177373	2.9781276	21	5 18.3	18.6
76615 2000 GP_{169}	14.4	X	234.96018	238.57491	1.92871	8.99512	0.0553637	0.17443125	3.1723896	21	—	—
76616 2000 GV_{172}	14.7	X	68.09809	296.64650	216.31521	10.06733	0.0507578	0.19157388	2.9801985	21	4 21.6	18.7
76617 2000 GM_{173}	14.7	X	212.10575	268.25676	272.64206	11.96889	0.1088690	0.21342986	2.7731025	21	11 11.4	19.0
76618 2000 GY_{173}	15.3	X	37.04395	217.10880	300.35844	6.87255	0.0836902	0.23279136	2.6171271	21	3 6.4	18.5
76619 2000 GB_{174}	14.3	X	186.93501	59.38212	340.30111	9.65392	0.1147812	0.19069234	2.9893760	21	4 20.6	19.2
76620 2000 GO_{175}	14.8	X	312.86722	332.84078	192.08936	13.48213	0.1881064	0.22579289	2.6709302	21	—	—
76621 2000 GF_{176}	13.8	X	145.73816	118.96379	214.96330	6.64556	0.1031469	0.17336533	3.1853798	21	—	—
76622 2000 GY_{176}	14.4	X	329.43562	75.78084	354.84586	4.19983	0.1004530	0.16906441	3.2391763	21	11 24.1	18.4
76623 2000 GS_{178}	15.1	X	358.31612	30.55985	101.80518	13.90168	0.1177290	0.22443409	2.6816999	21	—	—
76624 2000 GW_{178}	13.8	X	222.26223	254.50396	104.85166	11.66869	0.1674183	0.18610756	3.0382724	21	4 13.8	19.0
76625 2000 GC_{181}	14.8	X	324.42494	271.91769	161.65280	3.45830	0.0692634	0.21134058	2.7913489	21	12 1.9	18.3
76626 2000 GL_{182}	14.9	X	124.50058	199.23054	175.72145	6.08428	0.1711504	0.18076065	3.0978957	21	1 28.7	19.5
76627 2000 GT_{182}	14.5	X	172.71025	310.51281	138.24817	11.62730	0.1174434	0.19542649	2.9409011	21	6 11.6	19.3
76628 Kozí Hrádek	14.6	X	3.89040	323.09879	190.71095	11.45533	0.0416655	0.18034266	3.1026805	21	1 24.4	19.0
76629 2000 HG	13.7	X	296.12484	127.86262	127.13486	13.99065	0.1416119	0.22759341	2.6568249	21	2 12.8	17.5
76630 2000 HZ_{3}	15.0	X	3.39846	335.89643	106.84268	1.24852	0.1220870	0.17242239	3.1969826	21	—	—
76631 2000 HX_{4}	14.9	X	137.84851	159.72384	89.45418	7.24196	0.0889250	0.20834663	2.8180264	21	11 21.6	19.3
76632 2000 HJ_{6}	15.0	X	234.06609	251.80219	42.61590	2.01284	0.1353861	0.17696873	3.1419917	21	2 5.3	19.9
76633 2000 HL_{6}	14.8	X	312.59611	111.12839	42.17452	2.21569	0.1444590	0.17310791	3.1885368	21	—	—
76634 2000 HH_{9}	15.2	X	313.94067	43.88964	135.45418	1.14428	0.1736253	0.17608492	3.1524964	21	—	—
76635 2000 HH_{10}	14.2	X	5.20404	195.64266	56.76002	8.25501	0.1233715	0.23628991	2.5912298	21	5 28.8	16.7
76636 2000 HM_{11}	14.0	X	26.95013	291.94365	218.76389	11.33591	0.0754642	0.18250247	3.0781531	21	2 18.3	18.1
76637 2000 HM_{12}	13.8	X	191.53859	323.49305	23.90368	1.37678	0.1621394	0.17854559	3.1234650	21	2 28.4	18.9
76638 2000 HS_{14}	13.6	X	261.25018	221.57166	57.86792	12.26650	0.1386768	0.17737939	3.1371403	21	2 17.5	18.6
76639 2000 HP_{15}	15.3	X	2.57250	75.66119	111.36001	2.02827	0.1119626	0.18442323	3.0567433	21	3 2.9	19.0
76640 2000 HR_{15}	14.2	X	268.29799	301.90544	36.98956	12.21324	0.1133310	0.19037364	2.9927115	21	5 3.0	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76641 2000 HT_{20}	14.8	X	282.09021	22.17057	102.80923	8.80396	0.1777569	0.21382131	2.7697170	21	11 24.0	18.1
76642 2000 HD_{21}	14.2	X	201.28856	296.41626	60.85400	10.22538	0.0846816	0.18260507	3.0770000	21	3 24.5	19.0
76643 2000 HH_{23}	14.0	X	35.90157	39.29977	51.96065	23.02428	0.0820104	0.17572409	3.1568105	21	—	—
76644 2000 HY_{24}	14.5	X	299.43415	68.56429	22.91819	9.63722	0.1319520	0.21025089	2.8009853	21	11 8.8	17.8
76645 2000 HF_{25}	14.6	X	287.77317	201.51761	12.59306	5.82332	0.1613451	0.17624265	3.1506153	21	—	—
76646 2000 HY_{25}	13.2	X	77.66410	348.79929	46.66066	24.48857	0.1111686	0.17189702	3.2034933	21	—	—
76647 2000 HQ_{30}	14.1	X	348.85680	63.91566	97.05003	16.57089	0.0477152	0.17824997	3.1269174	21	1 16.3	18.3
76648 2000 HH_{31}	13.5	X	228.78418	218.47300	116.70895	18.08179	0.1987874	0.18306032	3.0718965	21	3 21.8	18.9
76649 2000 HU_{31}	13.7	X	8.13825	16.11451	89.73929	23.40123	0.1771881	0.17647231	3.1478812	21	—	—
76650 2000 HW_{32}	14.3	X	249.01359	185.16361	104.44446	18.89748	0.1693610	0.17769410	3.1334351	21	2 13.2	19.5
76651 2000 HV_{33}	14.0	X	341.04985	16.89432	51.95483	10.29814	0.1820580	0.21313633	2.7756480	21	12 27.3	16.9
76652 2000 HF_{35}	14.0	X	19.13459	278.20406	179.54092	15.95372	0.0140204	0.17448257	3.1717675	21	—	—
76653 2000 HJ_{35}	14.4	X	48.39970	29.67065	75.45272	10.50153	0.0717755	0.18009512	3.1055230	21	1 30.5	18.5
76654 2000 HM_{35}	14.5	X	181.10844	280.18164	89.16063	10.68845	0.0969111	0.18300508	3.0725145	21	3 19.2	19.4
76655 2000 HK_{36}	14.6	X	339.04580	38.49124	161.95949	12.91922	0.0406138	0.22788717	2.6545412	21	2 10.5	18.1
76656 2000 HN_{36}	13.5	X	213.67639	216.97807	113.55576	11.54397	0.0736624	0.18037380	3.1023235	21	3 4.1	18.3
76657 2000 HU_{36}	14.3	X	298.03362	132.41618	149.36273	14.01612	0.0627957	0.23168683	2.6254383	21	4 4.3	17.9
76658 2000 HV_{36}	14.3	X	224.09596	209.63412	94.97048	15.81277	0.1506102	0.22356048	2.6886815	21	2 2.9	18.8
76659 2000 HX_{36}	14.5	X	56.57513	48.93500	149.11602	13.89598	0.0942985	0.23742624	2.5829554	21	6 10.3	17.9
76660 2000 HC_{37}	14.1	X	312.60264	34.91995	120.43634	15.83257	0.1482690	0.17277209	3.1926672	21	—	—
76661 2000 HP_{39}	14.2	X	351.03841	217.13715	80.36773	10.80626	0.0633262	0.19276806	2.9678777	21	7 11.4	18.0
76662 2000 HB_{41}	14.5	X	212.32463	322.53166	178.28192	13.93440	0.1226876	0.20451607	2.8531050	21	9 23.2	18.6
76663 2000 HJ_{41}	14.5	X	341.38098	132.27619	107.76386	13.31411	0.1011145	0.18509243	3.0493711	21	4 14.6	18.6
76664 2000 HT_{41}	14.7	X	318.18960	123.33452	111.77985	14.13424	0.1805774	0.22757605	2.6569600	21	2 9.8	18.2
76665 2000 HZ_{41}	14.9	X	320.52225	3.43170	149.02900	25.56385	0.0608455	0.22095480	2.7097783	21	—	—
76666 2000 HV_{42}	14.6	X	56.93373	9.72816	95.30745	2.90137	0.1425737	0.18120090	3.0928758	21	2 16.5	18.2
76667 2000 HW_{42}	14.3	X	187.03643	191.92809	203.78428	10.52493	0.1164266	0.18717940	3.0266626	21	4 20.5	19.0
76668 2000 HA_{45}	15.1	X	192.22530	131.94411	105.91792	4.26751	0.1322208	0.21375047	2.7703289	21	12 29.4	19.4
76669 2000 HD_{51}	15.3	X	8.36704	61.35594	51.66810	4.19516	0.2225313	0.22273487	2.6953215	21	—	—
76670 2000 HL_{53}	16.0	X	295.73620	42.87394	221.32634	5.10577	0.2286855	0.27381795	2.3487030	21	2 2.9	19.6
76671 2000 HD_{54}	14.9	X	119.31088	154.54953	62.80464	4.07751	0.1051186	0.19994778	2.8963986	21	9 25.6	19.2
76672 2000 HD_{56}	13.1	X	337.06520	257.99096	59.01064	11.95970	0.1124004	0.14706023	3.5547240	21	7 13.0	17.7
76673 2000 HL_{56}	14.3	X	216.69935	224.58715	110.12103	2.56391	0.2013168	0.18033334	3.1027875	21	3 6.4	19.6
76674 2000 HC_{58}	14.7	X	148.15049	146.71269	244.17630	2.17300	0.0241052	0.18025237	3.1037166	21	2 25.8	19.0
76675 2000 HL_{61}	14.6	X	226.42102	358.67130	52.89346	11.70037	0.1080280	0.19431603	2.9520947	21	6 17.4	19.1
76676 2000 HH_{62}	15.4	X	124.65931	61.26038	46.45671	1.55734	0.0366302	0.18766950	3.0213909	21	5 5.4	19.8
76677 2000 HU_{62}	13.9	X	252.83587	223.98410	47.97898	14.53642	0.2337685	0.17641751	3.1485331	21	1 23.9	19.4
76678 2000 HA_{63}	14.7	X	268.34919	46.33402	174.10586	5.62799	0.1240260	0.17469918	3.1691452	21	—	—
76679 2000 HV_{63}	14.3	X	168.07521	80.34529	227.56127	4.70697	0.1407730	0.17124099	3.2116699	21	—	—
76680 2000 HD_{64}	14.9	X	269.81009	356.25872	224.90703	12.36959	0.1370885	0.22219476	2.6996876	21	—	—
76681 2000 HR_{66}	15.1	X	341.59028	136.30521	53.84230	1.84185	0.1209301	0.18045002	3.1014498	21	2 2.7	19.1
76682 2000 HV_{66}	14.6	X	204.93029	19.94072	53.62695	11.00997	0.0686106	0.19329086	2.9625237	21	6 24.9	19.2
76683 2000 HN_{68}	14.3	X	107.02817	347.94926	52.18111	8.35462	0.1576806	0.17597921	3.1537588	21	2 11.7	18.8
76684 2000 HS_{70}	14.8	X	353.42860	104.99617	66.46831	10.89037	0.0635343	0.17880891	3.1203977	21	2 5.6	19.1
76685 2000 HA_{72}	15.2	X	124.85086	96.91717	52.92137	2.49497	0.0735371	0.19450647	2.9501676	21	7 3.0	19.5
76686 2000 HN_{72}	15.0	X	304.74993	201.77542	192.18079	1.69825	0.0727354	0.20298065	2.8674749	21	9 8.5	18.6
76687 2000 HA_{73}	15.2	X	334.63884	87.46892	71.13660	14.07591	0.1142211	0.22432012	2.6826081	21	—	—
76688 2000 HB_{73}	14.5	X	264.79507	192.60684	104.84593	12.69752	0.1166160	0.18370744	3.0646782	21	3 15.7	19.3
76689 2000 HL_{73}	14.6	X	318.86841	176.89612	108.57864	13.13071	0.1094235	0.18897573	3.0074520	21	5 7.3	18.7
76690 2000 HZ_{73}	13.8	X	152.38876	179.91025	139.97931	14.40713	0.0718182	0.16897957	3.2402604	21	—	—
76691 2000 HU_{75}	15.0	X	230.60089	175.56625	109.40910	5.84990	0.2283524	0.17385193	3.1794332	21	1 19.3	20.4
76692 2000 HY_{75}	15.0	X	305.11494	12.47321	176.88138	11.85763	0.1162097	0.22209112	2.7005274	21	—	—
76693 2000 HD_{79}	14.8	X	344.40136	47.03252	59.80857	22.53525	0.0575825	0.21961070	2.7208236	21	—	—
76694 2000 HZ_{79}	13.9	X	286.43087	68.50370	94.64041	21.99856	0.0156740	0.16944443	3.2343314	21	—	—
76695 2000 HE_{80}	14.4	X	220.04738	205.49828	110.08602	14.86892	0.1306072	0.17841883	3.1249442	21	2 19.1	19.5
76696 2000 HT_{81}	13.9	X	20.26714	33.82180	101.43030	18.31050	0.1743523	0.17928420	3.1148803	21	1 22.9	17.4
76697 2000 HG_{83}	14.0	X	231.20741	182.41143	134.37908	18.80655	0.1950616	0.17914255	3.1165221	21	2 26.8	19.3
76698 2000 HP_{83}	13.9	X	327.61060	91.83990	73.27123	22.47363	0.1657691	0.17950336	3.1123445	21	—	—
76699 2000 HK_{85}	15.1	X	350.11985	205.82733	275.69310	2.88419	0.0745145	0.22071672	2.7117266	21	—	—
76700 2000 HQ_{86}	14.9	X	295.47913	139.62966	136.36377	3.75283	0.1635665	0.18248900	3.0783046	21	3 13.7	19.3
76701 2000 HQ_{87}	14.6	X	351.05952	198.89813	61.66056	12.08828	0.0549916	0.19009964	2.9955864	21	5 22.6	18.5
76702 2000 HR_{87}	14.9	X	268.82751	141.91969	62.42386	12.04226	0.0343000	0.21948703	2.7218456	21	—	—
76703 2000 HT_{87}	14.3	X	217.96955	189.59258	116.70267	6.95386	0.0991753	0.17748762	3.1358649	21	2 5.1	19.1
76704 2000 HT_{88}	15.3	X	22.89995	104.29489	175.40590	2.45784	0.0293781	0.19749813	2.9202995	21	8 1.6	19.2
76705 2000 HV_{89}	14.4	X	216.52669	304.63745	44.81260	11.24956	0.0958406	0.18175029	3.0866400	21	3 29.5	19.2
76706 2000 HV_{92}	14.7	X	340.68848	156.97635	148.91652	17.42883	0.2007271	0.23887497	2.5725014	21	6 26.0	17.4
76707 2000 HC_{94}	13.9	X	115.23796	296.15030	109.40038	22.52943	0.1166922	0.17919276	3.1159399	21	2 22.5	18.6
76708 2000 HE_{101}	14.3	X	121.68625	302.09291	97.82642	4.52177	0.1320208	0.17853726	3.1235621	21	2 22.5	18.9
76709 2000 HB_{103}	14.7	X	311.73017	239.80489	74.29681	12.51692	0.0945138	0.19261209	2.9694797	21	5 31.5	18.5
76710 2000 HC_{105}	15.0	X	287.02175	18.44364	135.09231	14.58225	0.1132828	0.21639113	2.7477449	21	—	—
76711 2000 JY_{2}	14.4	X	221.05922	225.59958	116.70432	11.73400	0.0192357	0.18452813	3.0555847	21	3 29.6	18.9
76712 2000 JX_{4}	15.4	X	233.74303	359.05222	9.94945	9.08899	0.0760847	0.19360111	2.9593579	21	5 3.8	19.9
76713 Wudia	14.8	X	79.25919	353.27119	65.24211	5.78480	0.0263848	0.17463902	3.1698730	21	1 10.2	19.2
76714 2000 JZ_{9}	14.4	X	330.84329	330.16713	186.45268	21.03111	0.1498339	0.17511356	3.1641437	21	—	—
76715 2000 JK_{11}	14.3	X	55.95592	94.97909	29.57412	22.54123	0.0552543	0.18163238	3.0879757	21	3 13.8	18.7
76716 2000 JF_{12}	15.3	X	338.76365	73.16139	47.64748	13.68168	0.1450626	0.21956899	2.7211682	21	—	—
76717 2000 JP_{16}	14.4	X	159.38878	295.00447	58.32385	12.17501	0.0910708	0.17632970	3.1495782	21	2 5.8	19.4
76718 2000 JW_{16}	14.2	X	352.49328	55.24145	56.94923	14.30517	0.2141237	0.22081293	2.7109388	21	—	—
76719 2000 JJ_{18}	15.3	X	19.86673	98.60555	120.91000	18.39017	0.2227127	0.23578681	2.5949145	21	5 20.1	17.9
76720 2000 JJ_{19}	14.1	X	161.35984	237.65137	115.19226	11.99059	0.1399990	0.17696458	3.1420408	21	2 8.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76721 2000 JW_{22}	13.8	X	336.23009	183.62777	257.94334	12.25553	0.1152321	0.21424813	2.7660372	21	12 31.0	17.1
76722 2000 JJ_{23}	14.5	X	199.98850	316.79267	303.19823	7.67507	0.0784519	0.21704797	2.7421986	21	—	—
76723 2000 JL_{23}	14.4	X	213.67877	297.69808	268.80084	8.38581	0.1213237	0.21316260	2.7754200	21	12 14.8	18.4
76724 2000 JT_{25}	14.7	X	43.84015	91.87641	37.90828	12.00285	0.0704448	0.18095816	3.0956410	21	2 27.2	18.9
76725 2000 JJ_{28}	14.7	X	102.50890	75.03642	35.07983	10.03841	0.0643084	0.18550754	3.0448203	21	4 16.0	18.8
76726 2000 JK_{28}	14.9	X	291.99525	178.39558	10.74095	5.48898	0.1597313	0.17375406	3.1806271	21	—	—
76727 2000 JE_{30}	13.9	X	235.61211	296.88271	28.10300	11.19492	0.0858333	0.18143861	3.0901738	21	3 19.5	18.6
76728 2000 JE_{36}	13.4	X	136.85283	128.67061	246.80995	15.67101	0.1273724	0.17429311	3.1740656	21	2 2.3	18.5
76729 2000 JZ_{39}	14.8	X	278.15841	219.16491	49.66301	2.28691	0.1576547	0.17812833	3.1283408	21	2 15.6	19.4
76730 2000 JA_{40}	13.3	X	113.46631	163.13940	245.44243	14.96341	0.0826657	0.17599968	3.1535142	21	2 9.3	18.1
76731 2000 JH_{46}	14.3	X	167.11933	333.10860	67.12211	11.54975	0.1191697	0.18234082	3.0799721	21	4 11.8	19.2
76732 2000 JZ_{53}	14.7	X	32.42819	294.75661	263.87078	12.47383	0.1505952	0.23760054	2.5816920	21	4 29.5	17.5
76733 2000 JG_{54}	14.8	X	46.44903	88.21583	71.61561	5.76107	0.1439380	0.18559705	3.0438413	21	4 12.7	18.4
76734 2000 JK_{54}	15.3	X	46.47799	129.17631	96.98647	3.30432	0.1594864	0.19190299	2.9767901	21	7 11.9	18.9
76735 2000 JN_{54}	14.2	X	172.78941	301.18643	69.07543	8.63845	0.0505704	0.18005077	3.1060330	21	3 8.8	18.9
76736 2000 JA_{55}	14.5	X	318.37381	339.84426	214.80236	9.38584	0.1841245	0.17724993	3.1386677	21	—	—
76737 2000 JG_{55}	14.7	X	345.85070	353.24502	213.39418	8.65833	0.1182090	0.22849211	2.6498538	21	2 16.2	18.0
76738 2000 JV_{59}	14.6	X	22.01936	186.26788	358.56196	10.67868	0.1225202	0.18564927	3.0432705	21	3 29.6	18.1
76739 2000 JV_{61}	13.4	X	195.10610	254.28289	58.01663	14.93191	0.2098927	0.17046851	3.2213650	21	1 27.2	19.1
76740 2000 JJ_{64}	15.0	X	236.41629	191.48931	318.53430	7.24316	0.1642501	0.21132330	2.7915010	21	10 22.8	19.3
76741 2000 JM_{65}	14.6	X	14.98484	149.41867	100.20496	10.85789	0.1595634	0.19027591	2.9937361	21	6 17.4	17.8
76742 2000 JN_{65}	14.0	X	167.96027	214.08295	117.64468	10.46081	0.0539536	0.17394629	3.1782833	21	1 13.9	18.7
76743 2000 JG_{66}	14.2	X	253.11587	101.35512	122.32409	10.20750	0.2162835	0.21832230	2.7315175	21	—	—
76744 2000 JZ_{68}	14.5	X	242.67783	228.01394	43.44531	12.28929	0.1707385	0.22772738	2.6557828	21	1 9.0	19.0
76745 2000 JE_{70}	14.6	X	20.91412	141.74112	343.37309	11.61738	0.0892267	0.18001589	3.1064342	21	1 15.9	18.7
76746 2000 JJ_{70}	15.0	X	197.96478	235.43172	328.79273	11.35462	0.1587042	0.21192589	2.7862070	21	11 19.4	19.7
76747 2000 JO_{72}	13.7	X	20.51691	229.23908	259.73874	9.47488	0.0455365	0.18190423	3.0848982	21	1 16.4	17.8
76748 2000 JS_{72}	13.6	X	307.94441	4.69813	240.53588	14.29081	0.1446927	0.18556271	3.0442168	21	2 13.9	18.2
76749 2000 JV_{73}	14.3	X	142.35280	326.50854	158.94247	8.45214	0.1340710	0.19261538	2.9694458	21	6 26.4	19.0
76750 2000 JX_{73}	13.0	X	194.86829	237.60784	67.47590	13.08730	0.2277631	0.12523665	3.9565357	21	1 23.5	19.7
76751 2000 JR_{79}	15.5	X	247.01481	92.21445	110.95214	13.76594	0.0829746	0.21552399	2.7551102	21	—	—
76752 2000 JB_{82}	15.6	X	238.66738	301.20421	283.65807	11.25868	0.3098592	0.21831661	2.7315649	21	—	—
76753 2000 JB_{83}	14.7	X	78.49423	21.97811	42.43180	2.37044	0.1365329	0.17667015	3.1455308	21	1 29.3	18.7
76754 2000 JQ_{83}	14.3	X	319.43193	250.35060	69.62644	10.99288	0.0825620	0.19154361	2.9805124	21	6 20.7	18.1
76755 2000 KD_{1}	14.9	X	212.40410	206.76025	96.11258	0.34002	0.1610134	0.17446307	3.1720039	21	1 26.3	19.9
76756 2000 KR_{2}	13.2	X	62.96149	339.33891	121.92151	29.16777	0.1510210	0.17739942	3.1369041	21	2 25.6	17.4
76757 2000 KU_{5}	15.2	X	266.49206	140.95364	68.78613	15.50897	0.1385158	0.21886910	2.7269661	21	—	—
76758 2000 KZ_{6}	14.3	X	343.30479	152.35890	87.64028	11.80691	0.0143959	0.18416272	3.0596253	21	4 23.6	18.7
76759 2000 KA_{9}	14.2	X	52.71331	6.54662	37.01664	1.35896	0.1050350	0.16940231	3.2348675	21	—	—
76760 2000 KY_{12}	14.0	X	357.08446	10.01313	119.27925	16.32597	0.1608155	0.17531566	3.1617115	21	—	—
76761 2000 KY_{13}	15.2	X	104.08285	188.34117	77.53406	3.56342	0.0338552	0.20393586	2.8585139	21	10 31.4	19.3
76762 2000 KH_{14}	14.8	X	314.85407	278.40855	272.61583	0.24774	0.1190768	0.17581634	3.1557062	21	—	—
76763 2000 KD_{18}	15.0	X	223.25781	112.83183	73.36814	7.35599	0.0490287	0.20933687	2.8091326	21	12 9.1	18.9
76764 2000 KE_{24}	14.4	X	6.76464	1.82792	93.87868	3.58083	0.0952491	0.16900542	3.2399300	21	—	—
76765 2000 KQ_{26}	14.2	X	226.97223	248.32865	64.34237	17.13621	0.0811707	0.17671767	3.1449667	21	3 1.9	19.3
76766 2000 KO_{29}	14.7	X	301.92893	190.88536	71.12110	15.90652	0.1108418	0.18024121	3.1038448	21	3 20.0	19.3
76767 2000 KG_{30}	13.9	X	182.93184	209.83471	79.62453	12.44212	0.0273495	0.16829291	3.2490683	21	—	—
76768 2000 KR_{31}	14.6	X	283.97372	118.57605	79.40758	10.28611	0.1640888	0.21847299	2.7302613	21	—	—
76769 2000 KC_{34}	14.1	X	15.54030	285.43388	126.37358	25.39958	0.1893206	0.21398291	2.7683223	21	—	—
76770 2000 KZ_{43}	14.3	X	325.55436	184.28582	127.52430	3.43125	0.1907895	0.18968266	2.9999749	21	6 6.1	17.6
76771 2000 KG_{46}	13.9	X	346.48217	129.83609	100.24818	12.27036	0.0450587	0.18369133	3.0648574	21	4 14.0	18.2
76772 2000 KJ_{47}	13.7	X	266.12294	161.39161	111.94848	13.11187	0.2179489	0.22341928	2.6898142	21	1 28.5	18.0
76773 2000 KS_{53}	14.7	X	92.39386	176.56936	139.20839	6.53503	0.0536826	0.21083368	2.7958212	21	12 20.6	18.8
76774 2000 KS_{58}	14.5	X	193.64640	269.75240	115.25802	10.62483	0.0153281	0.18550267	3.0448736	21	4 18.5	19.0
76775 2000 KT_{58}	14.7	X	82.55249	20.59911	123.20289	8.57588	0.0862862	0.18770644	3.0209945	21	5 8.5	18.9
76776 2000 KU_{58}	15.1	X	40.11655	65.05528	123.40044	8.64030	0.0731482	0.18722310	3.0261916	21	5 4.8	19.1
76777 2000 KR_{59}	13.6	X	289.79765	278.12408	67.25830	10.69448	0.0650968	0.19115584	2.9845418	21	6 14.7	17.8
76778 2000 KZ_{60}	14.6	X	354.49041	319.53774	192.36717	9.25348	0.1280618	0.17697660	3.1418985	21	1 3.4	18.7
76779 2000 KA_{62}	14.0	X	338.52419	313.54489	170.75909	20.74964	0.0865008	0.17148619	3.2086077	21	—	—
76780 2000 KH_{64}	14.1	X	131.61119	247.03225	117.92684	17.95045	0.1169908	0.17328321	3.1863860	21	1 20.6	18.7
76781 2000 KU_{65}	14.2	X	190.69896	244.45488	115.14497	17.31663	0.0657214	0.17917956	3.1160930	21	3 17.6	19.2
76782 2000 KP_{67}	14.9	X	44.85175	94.23425	134.34559	14.90182	0.1390353	0.19063727	2.9899518	21	7 9.3	18.7
76783 2000 KH_{71}	14.6	X	182.17949	195.36254	111.62185	14.56366	0.1017928	0.17096451	3.2151315	21	1 3.6	19.6
76784 2000 KR_{71}	15.0	X	36.18236	6.94569	126.35230	14.40448	0.1357399	0.22717264	2.6601045	21	2 5.6	17.6
76785 2000 KL_{72}	14.1	X	260.63520	188.52286	117.04248	18.10294	0.1152881	0.18064068	3.0992671	21	3 22.9	19.1
76786 2000 LT_{9}	14.1	X	306.56482	17.47575	229.70791	1.45468	0.1299466	0.17856373	3.1232534	21	2 23.5	18.5
76787 2000 LC_{13}	14.9	X	226.82506	133.66585	116.16842	9.98280	0.3059731	0.21575597	2.7531350	21	—	—
76788 2000 LX_{13}	13.9	X	299.18960	159.61260	121.88164	18.58466	0.1810641	0.17972792	3.1097515	21	3 28.7	18.6
76789 2000 LG_{16}	15.9	X	157.94446	83.78590	252.81727	15.49911	0.1994486	0.35279919	1.9835858	21	—	—
76790 2000 LR_{19}	13.7	X	297.10073	28.45779	229.85379	11.95830	0.1025955	0.17536523	3.1611157	21	2 25.6	18.4
76791 2000 LQ_{24}	13.5	X	295.65804	15.02730	205.82664	22.04937	0.0457999	0.17329368	3.1862577	21	1 18.2	18.5
76792 2000 LR_{24}	14.6	X	342.41672	116.15504	120.15612	23.37316	0.1643491	0.22924513	2.6440478	21	3 30.4	18.1
76793 2000 LX_{26}	14.3	X	195.19103	204.43736	98.12862	7.02068	0.1076677	0.17371392	3.1811170	21	1 10.6	19.3
76794 2000 LY_{31}	14.5	X	343.27630	16.33941	260.57607	4.58787	0.2708805	0.18425023	3.0586564	21	5 10.6	17.4
76795 2000 LN_{32}	13.5	X	129.14783	286.02160	84.30322	18.75990	0.1361956	0.17354421	3.1831904	21	1 28.7	18.4
76796 2000 LT_{32}	14.9	X	283.61199	107.06101	106.41843	13.09275	0.1414636	0.22058124	2.7128368	21	—	—
76797 2000 LG_{36}	15.6	X	42.06202	73.10566	97.95197	4.76917	0.2313940	0.23305771	2.6151327	21	4 22.9	17.8
76798 2000 NT_{4}	14.2	X	348.87152	306.87946	314.39957	12.21504	0.2436548	0.18351005	3.0668756	21	4 28.8	17.6
76799 2000 OR_{34}	13.7	X	330.79510	106.79157	160.58338	14.98061	0.0999180	0.18077043	3.0977839	21	5 2.1	17.9
76800 2000 OQ_{35}	15.0	X	45.57552	111.05080	345.28983	22.73956	0.0405321	0.39811193	1.8300625	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76801 2000 PF_{24}	12.7	X	305.14835	268.36742	350.60289	16.71357	0.1244117	0.17254158	3.1955101	21	3 10.6	17.0
76802 2000 PV_{27}	15.7	X	111.24059	122.68266	262.42087	23.99044	0.0619365	0.39770578	1.8313082	21	—	—
76803 2000 PK_{30}	7.3	X	69.34671	130.03032	127.27986	33.64894	0.1244332	0.00406232	38.9003465	21	9 6.6	23.1
76804 2000 QE	12.0	X	280.21771	168.15245	152.16871	9.59037	0.0643583	0.08473771	5.1335552	21	5 11.7	18.9
76805 2000 QY_{14}	13.7	X	275.74878	152.36745	120.16227	3.04057	0.1045664	0.12468179	3.9682653	21	3 2.8	19.4
76806 2000 QS_{24}	14.0	X	312.12969	74.22508	338.09491	9.43050	0.1047664	0.18900135	3.0071802	21	10 5.7	17.8
76807 2000 QT_{25}	15.7	X	197.57476	281.04444	143.67218	23.16621	0.1100203	0.36552174	1.9372867	21	6 4.8	18.8
76808 2000 QW_{34}	16.1	X	334.27681	204.10629	151.49982	26.33339	0.0090365	0.37606924	1.9008923	21	9 28.4	18.1
76809 2000 QQ_{46}	12.4	X	212.72914	71.97483	336.72242	14.21044	0.0807946	0.08376846	5.1730780	21	6 3.6	19.8
76810 2000 QC_{50}	13.0	X	328.75148	247.83174	348.57856	8.59595	0.0775488	0.12546593	3.9517139	21	3 25.2	18.4
76811 2000 QK_{57}	13.3	X	337.13081	71.21760	150.98373	11.94594	0.0787100	0.12496088	3.9623546	21	3 23.4	18.6
76812 2000 QQ_{84}	12.1	X	229.54386	77.34154	301.74628	14.78015	0.1076102	0.08330211	5.1923671	21	5 14.5	19.5
76813 2000 QC_{164}	14.4	X	331.58017	281.96243	294.86086	11.72785	0.2518122	0.17447415	3.1718696	21	2 1.4	18.5
76814 2000 QL_{164}	14.2	X	49.31656	118.78364	274.40096	15.65746	0.1025191	0.20430354	2.8550833	21	—	—
76815 2000 QE_{181}	15.0	X	138.37730	305.53359	239.52051	19.38269	0.0556759	0.36575348	1.9364684	21	9 3.2	17.8
76816 2000 RL_{37}	15.8	X	200.75377	34.52422	358.25033	19.08039	0.0979962	0.35835663	1.9630247	21	4 9.6	18.4
76817 2000 RX_{43}	14.1	X	312.35164	34.36567	329.59188	8.54324	0.0929685	0.18150167	3.0894580	21	8 8.3	18.0
76818 Brianenke	13.8	X	254.66858	129.44651	292.31396	18.13476	0.0957652	0.36753699	1.9301987	21	8 6.8	15.8
76819 2000 RQ_{91}	12.0	X	296.04084	333.78885	351.38043	16.30563	0.1054063	0.08096018	5.2920232	21	5 23.4	19.1
76820 2000 RW_{105}	12.2	X	252.18857	236.96575	154.06324	18.38063	0.0928772	0.08304477	5.2030884	21	6 25.2	19.4
76821 2000 SY_{8}	16.0	X	279.67836	263.17404	147.81435	23.45403	0.1056630	0.37114883	1.9176558	21	9 8.3	17.4
76822 2000 SA_{51}	13.4	X	359.57562	285.69872	295.44661	3.78369	0.1375541	0.12515810	3.9581909	21	4 15.8	18.4
76823 2000 SN_{60}	16.6	X	346.97292	163.17824	3.62152	4.00489	0.0505301	0.30416568	2.1897569	21	—	—
76824 2000 SA_{89}	12.8	X	243.26481	75.33493	321.70736	8.20391	0.1135677	0.08286413	5.2106470	21	6 19.9	20.0
76825 2000 SR_{125}	15.2	X	63.34840	269.16256	61.84010	6.96697	0.1503987	0.28751368	2.2735109	21	—	—
76826 2000 SW_{131}	12.0	X	353.28077	331.27906	305.38261	23.47044	0.0295826	0.08270662	5.2172607	21	6 22.4	18.9
76827 2000 SC_{158}	16.0	X	325.91838	25.58188	232.67235	19.04104	0.0548307	0.36023553	1.9561929	21	3 11.7	18.5
76828 2000 SL_{161}	16.3	X	203.65334	28.12010	245.30296	11.69366	0.2219541	0.34900564	1.9979337	21	—	—
76829 2000 ST_{166}	15.9	X	143.68598	99.55104	301.03523	5.58605	0.1413532	0.30641499	2.1790275	21	2 27.0	18.6
76830 2000 SA_{182}	12.0	X	208.32245	129.53923	291.08693	25.07454	0.0634225	0.08362194	5.1791188	21	6 17.6	19.2
76831 2000 ST_{222}	12.9	X	4.46146	265.89403	302.95945	6.21400	0.1555546	0.12329535	3.9979583	21	4 7.2	17.7
76832 2000 SM_{226}	15.9	X	189.39494	323.46401	49.36507	22.31520	0.0900377	0.35537491	1.9739897	21	3 20.1	18.9
76833 2000 SQ_{232}	16.7	X	152.49325	322.16056	220.13959	20.72338	0.0873587	0.37485907	1.9049812	21	9 24.7	19.3
76834 2000 SA_{244}	12.2	X	280.37128	338.95682	12.70601	12.73738	0.0341887	0.08371619	5.1752312	21	6 17.1	19.2
76835 2000 SH_{255}	12.5	X	325.74677	165.45636	160.15023	6.61393	0.0445023	0.08143829	5.2712905	21	7 10.7	19.3
76836 2000 SB_{310}	12.2	X	307.94093	22.59248	300.39831	23.74845	0.0995512	0.08203865	5.2455420	21	6 11.5	19.1
76837 2000 SL_{316}	12.4	X	270.24297	60.50686	296.13439	20.73780	0.0914405	0.08301086	5.2045052	21	6 5.0	19.5
76838 2000 ST_{347}	12.6	X	275.26309	91.15771	278.46247	18.93009	0.1102428	0.08346137	5.1857595	21	6 23.2	19.5
76839 2000 SM_{354}	16.1	X	295.96098	308.78308	288.34222	17.74758	0.0574388	0.35648703	1.9698821	21	1 4.2	18.3
76840 2000 TU_{3}	12.9	X	252.34965	19.41560	5.63598	3.67175	0.0750080	0.08238817	5.2306961	21	6 19.6	19.9
76841 2000 TC_{33}	15.7	X	127.94727	182.13277	331.14103	18.07215	0.0601170	0.36499286	1.9391577	21	7 16.3	18.0
76842 2000 TQ_{33}	15.1	X	329.83318	4.90529	324.49053	18.72969	0.0713604	0.36753502	1.9302056	21	7 31.8	16.5
76843 2000 TP_{41}	15.5	X	241.34285	26.47098	16.54383	20.57060	0.0997496	0.36870642	1.9261151	21	6 20.3	18.3
76844 2000 UC_{40}	15.9	X	267.62675	308.96717	242.62161	3.75580	0.0938123	0.29279258	2.2461013	21	—	—
76845 2000 VJ_{2}	15.0	X	333.28053	311.94558	93.59169	23.08478	0.2081732	0.27838479	2.3229456	21	12 5.2	16.8
76846 2000 VK_{10}	16.3	X	288.29103	353.47662	117.33697	1.99827	0.1238994	0.28402394	2.2920957	21	12 8.3	18.4
76847 2000 VX_{31}	16.3	X	200.38470	315.38499	61.13101	4.31590	0.0877950	0.30817858	2.1707064	21	3 31.1	19.1
76848 2000 WO_{3}	15.9	X	12.92173	176.61607	145.17641	24.43429	0.0482546	0.37066110	1.9193376	21	10 16.2	18.2
76849 2000 WL_{6}	16.6	X	240.69809	318.05414	45.69906	4.25273	0.1143814	0.30993294	2.1625072	21	4 25.9	19.6
76850 2000 WE_{13}	16.2	X	14.47216	246.09331	38.89643	2.13557	0.0861242	0.31879526	2.1222415	21	8 8.4	17.9
76851 2000 WJ_{18}	16.2	X	280.56743	233.47960	83.45620	5.88577	0.1247069	0.31198163	2.1530297	21	4 9.8	18.9
76852 2000 WD_{20}	16.3	X	138.91434	35.07769	269.21523	6.52395	0.1212482	0.28603957	2.2813153	21	—	—
76853 2000 WE_{25}	14.1	X	147.57118	304.15703	286.71193	25.25387	0.2276068	0.26960576	2.3731031	21	11 11.8	18.7
76854 2000 WX_{49}	15.1	X	81.65260	197.44736	119.78348	24.92357	0.2413561	0.28602514	2.2813920	21	—	—
76855 2000 WD_{63}	14.2	X	261.33642	83.72128	92.42870	23.52717	0.2335884	0.27939326	2.3173525	21	—	—
76856 2000 WQ_{96}	15.5	X	301.73907	294.01703	264.95815	7.86217	0.1208676	0.29367562	2.2415965	21	—	—
76857 2000 WE_{132}	11.0	X	303.83537	256.39658	61.35054	22.98400	0.0943925	0.08158429	5.2649998	21	5 29.1	17.7
76858 2000 WK_{141}	15.8	X	127.52857	191.74002	300.97051	17.00889	0.0573026	0.35652848	1.9697294	21	6 6.5	18.2
76859 2000 WV_{145}	15.5	X	227.28453	271.41501	100.36672	24.18696	0.1410779	0.35948955	1.9588982	21	4 29.9	18.8
76860 2000 WK_{178}	15.5	X	339.85428	103.28852	91.73866	5.17401	0.0822362	0.29745453	2.2225711	21	1 15.5	18.1
76861 2000 WX_{185}	15.4	X	296.44618	21.90440	325.66641	18.33234	0.0748012	0.36168544	1.9509615	21	6 26.4	17.6
76862 2000 XK_{7}	15.0	X	324.47208	340.13282	33.79142	7.75559	0.2147309	0.27670875	2.3323163	21	9 14.9	16.5
76863 2000 XD_{13}	15.3	X	265.68859	124.13779	37.01352	8.38603	0.1629609	0.27973730	2.3154521	21	—	—
76864 2000 XR_{13}	14.5	X	60.79450	30.33588	282.84161	22.62255	0.0456116	0.37433271	1.9067666	21	12 10.9	16.7
76865 2000 XW_{38}	15.0	X	352.11913	321.96630	300.43618	17.40369	0.0581258	0.36057885	1.9549510	21	5 5.3	17.3
76866 2000 XK_{49}	14.3	X	60.92975	120.48348	102.28802	22.93726	0.2038923	0.25719295	2.4488566	21	8 11.6	17.5
76867 2000 YM_{5}	10.4	X	284.19164	297.61339	38.52855	28.76122	0.0303362	0.08390370	5.1675177	21	5 29.0	17.4
76868 2000 YC_{11}	15.3	X	344.95701	184.35669	79.35165	6.70278	0.1583846	0.30707435	2.1759071	21	4 26.9	17.0
76869 2000 YB_{20}	16.1	X	97.67442	114.81478	24.05884	3.25662	0.0820424	0.30526600	2.1844919	21	5 8.7	18.4
76870 2000 YP_{21}	16.1	X	342.88427	88.91647	26.82906	3.68171	0.1092262	0.28565127	2.2833822	21	—	—
76871 2000 YZ_{28}	16.0	X	103.08190	289.38866	57.90141	6.74381	0.1971554	0.28655556	2.2785758	21	—	—
76872 2000 YP_{30}	16.6	X	85.84913	167.98570	330.85076	4.58708	0.0392364	0.30234089	2.1985590	21	4 11.6	19.0
76873 2000 YF_{32}	16.0	X	199.29329	72.09402	135.87690	27.22105	0.0329210	0.37777077	1.8951801	21	—	—
76874 2000 YR_{32}	16.3	X	208.42451	59.66484	297.07083	2.12356	0.1787442	0.30429941	2.1891153	21	3 11.9	19.7
76875 2000 YT_{32}	16.0	X	148.95279	153.15554	193.83549	2.98599	0.1987888	0.29505126	2.2346237	21	1 4.1	19.0
76876 2000 YU_{32}	16.0	X	146.16883	138.10148	234.71650	3.49769	0.2291813	0.29885598	2.2156173	21	2 5.8	19.0
76877 2000 YD_{36}	16.3	X	149.48551	201.15723	225.58546	1.54989	0.0919023	0.30472081	2.1870966	21	4 7.1	18.8
76878 2000 YT_{44}	15.9	X	139.88327	100.14855	261.91049	2.29962	0.0259662	0.29409414	2.2394694	21	—	—
76879 2000 YG_{47}	16.2	X	83.52671	247.74260	249.75952	2.24451	0.1046854	0.30281945	2.1962421	21	4 18.0	18.3
76880 2000 YG_{51}	15.9	X	305.20698	189.20486	85.48810	5.54681	0.0180449	0.30371011	2.1919461	21	4 1.2	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76881 2000 YR_{51}	16.0	X	187.98540	246.24696	110.47053	5.65690	0.1908938	0.30100293	2.2050693	21	2 25.0	19.4
76882 2000 YA_{54}	15.4	X	253.29363	107.41112	107.33759	8.83826	0.0703388	0.28718267	2.2752576	21	—	—
76883 2000 YE_{54}	15.9	X	271.37533	28.17440	292.39577	2.10875	0.1771585	0.30617377	2.1801719	21	3 24.9	19.0
76884 2000 YJ_{61}	15.4	X	230.30336	68.76557	266.56898	4.61784	0.1598172	0.30236336	2.1984501	21	3 3.6	18.8
76885 2000 YB_{63}	16.0	X	195.19060	70.16638	125.74072	7.93409	0.1321754	0.27527681	2.3403975	21	11 22.9	19.4
76886 2000 YL_{64}	16.2	X	64.35067	288.79652	121.21213	7.85484	0.0966446	0.28934546	2.2639054	21	—	—
76887 2000 YM_{88}	16.1	X	134.83805	307.01418	137.58452	1.04329	0.1254432	0.30508363	2.1853623	21	4 19.0	18.7
76888 2000 YW_{94}	15.7	X	216.48667	201.41038	112.85302	3.82818	0.1717893	0.29877290	2.2160280	21	1 26.5	18.9
76889 2000 YK_{97}	16.1	X	264.24023	300.13280	106.69897	3.29407	0.1231088	0.26785713	2.3834200	21	7 25.9	18.9
76890 2000 YT_{98}	16.3	X	223.68948	108.29425	127.27422	0.99941	0.0631856	0.28581783	2.2824950	21	—	—
76891 2000 YM_{99}	16.0	X	113.86380	274.18871	119.57794	7.95601	0.1527195	0.29474586	2.2361670	21	1 13.9	18.3
76892 2000 YP_{99}	16.3	X	14.08558	293.54071	121.81138	6.85521	0.1095638	0.28342302	2.2953344	21	—	—
76893 2000 YQ_{99}	15.0	X	138.13237	165.32673	123.90747	16.63367	0.1155007	0.23283947	2.6167665	21	—	—
76894 2000 YT_{99}	16.2	X	320.85951	109.61643	107.74296	6.36914	0.0785823	0.29500766	2.2348439	21	1 20.9	18.8
76895 2000 YX_{103}	15.6	X	315.70877	36.74901	112.54590	6.16963	0.1099037	0.28349340	2.2949545	21	—	—
76896 2000 YA_{105}	15.4	X	262.88584	149.77082	54.72858	6.43439	0.1834207	0.28095777	2.3087417	21	—	—
76897 2000 YO_{105}	15.8	X	30.21872	76.24332	105.38315	6.23982	0.1863025	0.29627590	2.2284616	21	3 24.8	17.2
76898 2000 YS_{105}	15.2	X	201.54881	140.50136	104.71341	7.58259	0.0848069	0.27853738	2.3220972	21	—	—
76899 2000 YU_{105}	15.8	X	304.92560	131.18665	35.48360	6.71387	0.2190654	0.28277754	2.2988260	21	—	—
76900 2000 YB_{107}	15.8	X	159.10489	107.64183	226.70762	3.41100	0.1538414	0.29488299	2.2354737	21	—	—
76901 2000 YE_{110}	16.2	X	191.05728	140.53706	51.33799	3.18369	0.1390292	0.27514898	2.3411223	21	11 10.6	19.7
76902 2000 YT_{110}	16.4	X	325.56940	130.73266	72.00396	4.30178	0.0695131	0.29520383	2.2338537	21	1 8.6	18.9
76903 2000 YV_{111}	15.7	X	208.60441	11.66571	317.09393	5.88748	0.1737689	0.29905286	2.2146447	21	2 6.2	18.9
76904 2000 YO_{112}	16.3	X	58.39712	63.42176	5.97332	2.49923	0.1178817	0.29190197	2.2506676	21	—	—
76905 2000 YU_{116}	14.9	X	43.82996	284.57579	316.21467	14.02527	0.1591416	0.25904848	2.4371486	21	7 31.5	17.4
76906 2000 YC_{120}	15.2	X	9.51746	98.17026	143.65023	24.27655	0.0536003	0.35863083	1.9620239	21	5 21.4	17.7
76907 2000 YO_{123}	14.7	X	234.66785	105.19438	118.36536	14.84940	0.1335983	0.23076407	2.6324326	21	—	—
76908 2000 YG_{126}	15.0	X	269.97925	208.50955	22.77100	11.86283	0.2273380	0.23858984	2.5745505	21	—	—
76909 2000 YK_{127}	15.7	X	83.37273	150.66564	67.06697	3.09103	0.1579908	0.26229746	2.4169815	21	8 26.7	18.8
76910 2000 YX_{128}	16.1	X	329.99222	247.44462	59.73801	3.44001	0.1097068	0.30943713	2.1648165	21	6 12.8	18.0
76911 2000 YC_{133}	15.4	X	286.95167	41.97324	131.72139	7.46553	0.1489067	0.28096575	2.3086980	21	—	—
76912 2000 YZ_{135}	15.5	X	274.43474	30.74040	307.43743	3.22860	0.1785501	0.30728852	2.1748960	21	4 20.6	18.4
76913 2000 YO_{138}	16.2	X	336.98768	220.09916	25.15087	2.53037	0.1431756	0.25190062	2.4830372	21	3 23.4	18.9
76914 2000 YP_{138}	15.6	X	335.67033	194.86183	73.01318	3.47965	0.1804625	0.25482813	2.4639836	21	4 17.8	17.9
76915 2000 YC_{139}	16.1	X	229.24697	153.05070	108.49599	26.36834	0.0559388	0.39395433	1.8429157	21	—	—
76916 2001 AB	16.3	X	317.26036	40.01972	344.33891	2.70836	0.2173565	0.27307902	2.3529380	21	9 8.5	17.9
76917 2001 AN_{4}	15.6	X	329.85920	255.34586	249.29007	6.50162	0.0364314	0.28839167	2.2688942	21	—	—
76918 2001 AC_{5}	16.0	X	219.26720	222.72448	165.26426	3.16055	0.0844844	0.30737600	2.1744833	21	5 7.5	18.7
76919 2001 AE_{12}	15.3	X	333.96992	355.36085	244.75569	4.51670	0.0929953	0.25201442	2.4822896	21	3 15.7	18.4
76920 2001 AM_{12}	15.6	X	146.18309	96.66061	142.02518	7.17519	0.0745438	0.27521722	2.3407353	21	11 27.8	19.0
76921 2001 AA_{15}	16.0	X	279.04995	319.01275	263.46673	5.06905	0.1537764	0.28902617	2.2655723	21	—	—
76922 2001 AH_{15}	15.6	X	145.17812	302.68293	250.70032	4.17239	0.1669348	0.26693698	2.3888941	21	9 25.7	19.4
76923 2001 AN_{16}	14.3	X	231.41267	303.45143	299.46033	11.47933	0.1846375	0.23625404	2.5914921	21	—	—
76924 2001 AJ_{21}	16.0	X	134.39422	39.42292	311.00741	5.91494	0.1448321	0.29268654	2.2466437	21	—	—
76925 2001 AQ_{21}	16.1	X	133.53487	311.21484	65.61746	4.71504	0.0875850	0.29572621	2.2312223	21	1 8.6	18.6
76926 2001 AA_{24}	15.1	X	315.17940	226.67269	96.41102	24.16839	0.2135361	0.26801634	2.3824760	21	5 31.8	17.9
76927 2001 AJ_{25}	15.5	X	89.71938	92.91451	104.37047	6.85840	0.2823095	0.25748000	2.4470361	21	8 22.5	19.2
76928 2001 AP_{25}	14.9	X	337.86083	40.15428	318.76795	17.50468	0.1013960	0.36821594	1.9278252	21	9 24.5	16.6
76929 2001 AX_{34}	14.6	X	17.85301	17.38181	325.19324	19.59773	0.0696556	0.36743815	1.9305448	21	11 12.9	17.0
76930 2001 AE_{39}	15.7	X	28.54851	226.98296	111.59808	8.00359	0.0989693	0.27411636	2.3469981	21	11 20.1	18.5
76931 2001 AB_{40}	15.8	X	39.22747	184.15618	311.19082	8.90257	0.1037738	0.29627847	2.2284488	21	1 25.4	17.8
76932 2001 AN_{42}	15.9	X	271.22931	207.15535	338.35687	6.56892	0.1795946	0.28464376	2.2887671	21	—	—
76933 2001 AE_{44}	16.1	X	189.10873	331.58541	48.58086	5.84603	0.1998111	0.30414680	2.1898475	21	3 28.5	19.5
76934 2001 AS_{44}	16.0	X	131.36850	3.70133	97.86101	5.40114	0.0753691	0.30315420	2.1946250	21	5 3.8	18.7
76935 2001 AY_{44}	16.0	X	116.87759	141.01071	86.46376	4.08716	0.1926147	0.26618095	2.3934154	21	10 17.8	19.8
76936 2001 AF_{49}	15.8	X	276.65332	171.35454	67.83320	6.94868	0.1028939	0.29351960	2.2423908	21	—	—
76937 2001 BA_{1}	15.8	X	311.26099	89.75927	67.60596	6.45845	0.0993271	0.28525302	2.2855070	21	—	—
76938 2001 BR_{1}	16.8	X	233.28401	252.77933	131.45684	1.66462	0.1815925	0.31035022	2.1605684	21	5 11.5	20.0
76939 2001 BF_{3}	14.6	X	145.07992	140.00992	68.31495	10.87868	0.0983587	0.22416241	2.6838661	21	10 15.8	18.8
76940 2001 BR_{3}	16.7	X	238.03254	162.09288	2.10611	6.72029	0.1103289	0.27797458	2.3252304	21	12 2.7	19.6
76941 2001 BA_{5}	15.5	X	264.46083	14.16639	74.56979	7.40766	0.0790925	0.26910593	2.3760407	21	10 5.7	18.4
76942 2001 BM_{13}	16.1	X	107.50477	250.73007	163.04114	6.91515	0.1112635	0.29556130	2.2320521	21	1 24.5	18.6
76943 2001 BS_{14}	15.7	X	311.18477	246.44646	350.18301	2.95221	0.1415220	0.24539895	2.5267033	21	2 4.1	19.1
76944 2001 BH_{15}	15.7	X	195.15473	290.51197	331.83801	7.40393	0.0868861	0.28237435	2.3010138	21	—	—
76945 2001 BX_{17}	15.5	X	232.55798	187.02871	1.36562	5.52948	0.0349460	0.23331517	2.6132085	21	12 30.9	19.1
76946 2001 BQ_{18}	15.9	X	112.76374	175.36781	98.47289	4.14402	0.1476140	0.27568575	2.3380825	21	12 7.9	19.4
76947 2001 BF_{19}	16.2	X	276.42365	81.77513	84.32257	3.09506	0.1019915	0.28299669	2.2976391	21	—	—
76948 2001 BH_{20}	15.9	X	174.80809	292.43220	46.25060	4.72221	0.1383990	0.29429248	2.2384631	21	1 16.3	19.0
76949 2001 BJ_{20}	16.1	X	179.37051	353.66819	7.70371	4.20993	0.2201151	0.29929093	2.2134702	21	2 24.5	19.6
76950 2001 BU_{26}	15.8	X	277.27893	358.53596	138.67340	7.16784	0.0493573	0.27938792	2.3173820	21	—	—
76951 2001 BV_{27}	15.5	X	112.22702	305.52831	293.95573	7.13320	0.1887007	0.26788333	2.3832646	21	10 23.4	19.3
76952 2001 BY_{27}	15.7	X	168.42311	271.99897	275.93616	2.44682	0.1339497	0.26980237	2.3719501	21	10 12.1	19.4
76953 2001 BB_{28}	15.8	X	74.15572	105.61547	303.24319	0.36495	0.1100065	0.28982496	2.2614077	21	—	—
76954 2001 BJ_{28}	15.6	X	51.63319	91.07974	125.35898	1.54461	0.1366415	0.25734496	2.4478921	21	7 3.0	18.2
76955 2001 BK_{31}	15.9	X	194.44343	231.00453	309.23082	4.69125	0.1395958	0.27197663	2.3592918	21	10 27.5	19.4
76956 2001 BQ_{32}	15.7	X	71.84129	304.09775	155.52860	3.28478	0.1221127	0.29479286	2.2359294	21	2 2.4	17.7
76957 2001 BV_{32}	15.8	X	211.23293	23.77837	176.74548	2.16188	0.1595255	0.27569924	2.3380062	21	12 11.4	19.1
76958 2001 BZ_{32}	15.2	X	275.56988	62.17614	144.71658	7.87596	0.1386510	0.23648996	2.5897683	21	—	—
76959 2001 BA_{33}	15.7	X	313.19113	193.49010	306.25093	2.48569	0.0867791	0.28302423	2.2974901	21	—	—
76960 2001 BG_{33}	15.6	X	209.34475	280.16334	327.77498	5.19894	0.0696786	0.28219984	2.3019623	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
76961 2001 BT_{33}	16.8	X	52.07393	347.42875	121.31118	2.26421	0.2152738	0.29369402	2.2415029	21	1 9.3	17.8
76962 2001 BS_{34}	16.0	X	316.26257	3.47159	126.71968	7.47291	0.0472597	0.28311495	2.2969992	21	—	—
76963 2001 BX_{35}	16.5	X	71.26187	70.76304	7.08570	7.17401	0.1174089	0.29343687	2.2428123	21	—	—
76964 2001 BZ_{38}	15.7	X	140.26793	257.06673	126.18304	8.35065	0.0610395	0.24651023	2.5191039	21	2 1.5	19.0
76965 2001 BH_{45}	15.7	X	129.83252	285.59160	248.91302	4.73493	0.0617377	0.26273645	2.4142885	21	8 9.1	19.0
76966 2001 BT_{45}	16.8	X	172.33239	278.97084	104.64567	2.44989	0.1018004	0.30140666	2.2030997	21	3 9.3	19.6
76967 2001 BQ_{47}	15.9	X	334.19132	247.33196	305.60394	2.82455	0.1375800	0.24235328	2.5478281	21	1 9.3	18.9
76968 2001 BW_{49}	15.9	X	323.92993	95.89763	141.71970	6.02285	0.1178678	0.29364890	2.2417326	21	2 16.3	18.2
76969 2001 BX_{49}	16.0	X	208.80142	47.88899	123.19810	2.69872	0.1506425	0.27065091	2.3669898	21	11 2.0	19.3
76970 2001 BY_{50}	15.9	X	13.93686	12.04730	67.97506	7.48011	0.0719701	0.28324043	2.2963208	21	—	—
76971 2001 BA_{51}	14.6	X	243.94995	165.34674	114.24934	14.68040	0.1284235	0.24100224	2.5573411	21	1 18.3	18.4
76972 2001 BM_{51}	16.5	X	319.34355	148.20697	237.61832	2.16117	0.1365384	0.27329950	2.3516724	21	9 23.6	18.4
76973 2001 BT_{53}	15.1	X	140.50407	340.20994	270.63701	11.93088	0.1540615	0.27174491	2.3606328	21	12 4.4	18.8
76974 2001 BO_{54}	15.7	X	270.61291	160.39070	327.41539	6.46927	0.0533862	0.27588300	2.3369679	21	12 8.7	18.5
76975 2001 BJ_{56}	15.2	X	207.39949	86.06003	125.32940	15.97476	0.0641121	0.22996266	2.6385449	21	12 24.7	19.0
76976 2001 BK_{58}	16.1	X	241.17936	274.42442	297.76120	4.76573	0.0578911	0.28301888	2.2975190	21	—	—
76977 2001 BB_{60}	15.8	X	266.53825	280.66113	320.35658	2.16459	0.1901392	0.28624013	2.2802495	21	—	—
76978 2001 BY_{60}	14.8	X	330.86304	117.32451	147.71880	26.88917	0.3193971	0.29726705	2.2235055	21	3 4.3	17.3
76979 2001 BT_{61}	14.8	X	277.63952	260.55119	337.90021	12.47993	0.1170383	0.24035501	2.5619300	21	1 4.8	18.8
76980 2001 BS_{63}	16.0	X	302.59955	316.53195	183.03371	3.32828	0.0594144	0.28224759	2.3017026	21	—	—
76981 2001 BS_{65}	15.5	X	189.85343	244.73809	250.54188	5.28101	0.0684840	0.26532472	2.3985618	21	8 27.7	18.9
76982 2001 BV_{65}	16.2	X	92.53469	251.43545	214.58369	4.99950	0.0864718	0.29774591	2.2211208	21	3 12.8	18.6
76983 2001 BQ_{66}	14.4	X	171.39082	142.96084	152.32020	15.03955	0.1251899	0.23010888	2.6374271	21	—	—
76984 2001 BZ_{66}	15.8	X	314.27379	75.18232	32.84290	1.77207	0.0589530	0.27868436	2.3212806	21	—	—
76985 2001 BM_{68}	15.9	X	304.51079	315.21614	108.49864	3.62901	0.1806214	0.27320491	2.3522152	21	10 21.5	17.9
76986 2001 BY_{68}	15.8	X	158.83478	82.40897	70.26884	3.27257	0.1494772	0.26240447	2.4163244	21	8 20.1	19.5
76987 2001 BE_{69}	16.0	X	265.04195	77.97184	57.55757	2.94978	0.1499511	0.27550822	2.3390868	21	11 27.3	18.4
76988 2001 BQ_{69}	16.6	X	14.17205	349.65606	128.71926	6.69054	0.1518253	0.28807981	2.2705313	21	—	—
76989 2001 BR_{69}	16.3	X	293.75829	109.25129	69.89409	3.88291	0.1106954	0.28354379	2.2946826	21	—	—
76990 2001 BO_{70}	15.0	X	218.39248	329.50731	272.98026	23.96706	0.1654385	0.28347214	2.2950693	21	—	—
76991 2001 BJ_{72}	14.2	X	224.10652	185.57692	133.52110	14.00050	0.1902669	0.24377202	2.5379329	21	2 15.6	18.3
76992 2001 BR_{72}	15.1	X	201.41345	321.99530	284.05145	12.49113	0.1541927	0.23262872	2.6183468	21	—	—
76993 2001 BB_{73}	14.3	X	249.61736	71.12615	88.10787	11.44133	0.0168470	0.22650303	2.6653446	21	12 16.4	17.8
76994 2001 BW_{73}	16.1	X	158.59170	293.24886	293.57122	4.25962	0.1101951	0.27407260	2.3472480	21	11 22.3	19.5
76995 2001 BQ_{75}	15.3	X	129.44112	308.22905	323.38879	8.85862	0.1645001	0.27431417	2.3458697	21	12 20.8	19.2
76996 2001 BN_{77}	15.2	X	67.52220	227.88598	36.18296	7.45403	0.1003220	0.26136879	2.4227033	21	10 1.1	18.3
76997 2001 BG_{80}	15.2	X	238.92575	226.50745	181.32097	12.76084	0.2702611	0.26426880	2.4049467	21	6 12.3	19.4
76998 2001 BJ_{82}	15.7	X	9.45121	240.91819	16.56976	6.71573	0.1059927	0.25608836	2.4558933	21	6 12.6	18.3
76999 2001 CN_{2}	16.2	X	35.87925	96.91304	353.19098	2.47670	0.1096239	0.28853825	2.2681257	21	—	—
77000 2001 CU_{2}	16.1	X	327.58680	70.02206	42.31271	3.59178	0.0434200	0.28152340	2.3056483	21	—	—
77001 2001 CN_{3}	14.3	X	204.25947	329.63317	337.30830	17.82294	0.2160763	0.24026718	2.5625543	21	1 20.8	18.9
77002 2001 CR_{4}	16.2	X	28.02459	12.38979	114.64591	6.42799	0.1614704	0.29164062	2.2520120	21	—	—
77003 2001 CT_{4}	16.0	X	38.60389	41.14710	31.72982	3.37754	0.0914455	0.28605053	2.2812570	21	—	—
77004 2001 CW_{4}	16.0	X	98.92402	22.89310	38.00587	4.80214	0.1421984	0.29339507	2.2430253	21	1 29.7	18.2
77005 2001 CH_{5}	16.0	X	271.86175	100.86081	33.18234	4.32098	0.1272825	0.27644442	2.3338028	21	12 9.9	18.5
77006 2001 CT_{5}	15.8	X	11.18313	272.81919	116.35316	6.51501	0.1198330	0.27810749	2.3244895	21	—	—
77007 2001 CT_{7}	15.8	X	268.96886	198.29426	127.98227	6.08872	0.0576268	0.30161892	2.2020660	21	4 18.3	18.5
77008 2001 CD_{8}	16.3	X	322.27802	184.70728	357.64477	4.34978	0.1620596	0.28819699	2.2699158	21	—	—
77009 2001 CF_{8}	15.7	X	300.03612	168.33024	76.95730	2.80667	0.0554493	0.24544947	2.5263566	21	2 14.1	19.1
77010 2001 CB_{9}	14.3	X	172.45988	343.32272	331.73146	20.30838	0.3191776	0.23861889	2.5743416	21	1 11.8	19.1
77011 2001 CT_{11}	15.9	X	62.15966	341.40750	106.54190	7.36611	0.0517150	0.29218888	2.2491941	21	—	—
77012 2001 CX_{11}	15.7	X	245.12872	354.93677	9.63708	5.10203	0.1760176	0.30752103	2.1737996	21	4 25.6	19.0
77013 2001 CJ_{12}	16.7	X	323.02243	146.85326	15.78827	2.39939	0.0878503	0.28761544	2.2729746	21	—	—
77014 2001 CM_{12}	15.8	X	23.69870	81.22634	14.50155	4.49360	0.0380814	0.28766063	2.2727365	21	—	—
77015 2001 CU_{12}	15.8	X	139.32932	138.92800	92.70348	4.91069	0.1748735	0.26984548	2.3716974	21	11 11.1	19.7
77016 2001 CX_{12}	15.9	X	356.67065	12.96257	44.16925	3.67043	0.1237036	0.27995164	2.3142701	21	—	—
77017 2001 CH_{13}	14.7	X	125.43577	182.75477	131.91471	23.92549	0.1289545	0.28076273	2.3098108	21	—	—
77018 2001 CO_{13}	15.8	X	60.48041	129.20235	90.32023	5.84024	0.0580636	0.25812775	2.4429407	21	7 9.7	18.6
77019 2001 CP_{13}	16.3	X	80.59334	239.18607	338.90937	2.64279	0.1356603	0.26141937	2.4223908	21	8 18.9	19.4
77020 2001 CG_{15}	15.4	X	206.01754	164.92027	95.03048	5.87439	0.1825747	0.23486159	2.6017249	21	—	—
77021 2001 CY_{15}	15.9	X	183.22640	192.38196	47.50857	2.85325	0.1825833	0.27703609	2.3304787	21	12 29.9	19.5
77022 2001 CQ_{16}	16.0	X	172.37782	158.90413	15.27926	3.78952	0.0832567	0.26852019	2.3794948	21	10 1.4	19.4
77023 2001 CD_{19}	14.6	X	312.48580	271.75321	10.88894	8.22138	0.1285771	0.25146290	2.4859178	21	4 7.9	17.5
77024 2001 CU_{21}	15.3	X	45.54510	164.40834	98.73990	7.23826	0.0969504	0.26441846	2.4040391	21	8 28.9	18.1
77025 2001 CW_{21}	16.0	X	8.74863	114.01333	332.65492	7.05886	0.0617983	0.28604996	2.2812600	21	—	—
77026 2001 CC_{23}	15.4	X	358.56773	104.00457	138.57249	8.35273	0.0867691	0.25487950	2.4636525	21	5 5.6	18.2
77027 2001 CH_{26}	15.9	X	348.18261	324.50549	128.73241	8.84474	0.0645044	0.28040864	2.3117549	21	—	—
77028 2001 CO_{27}	15.2	X	239.65488	157.39792	97.29124	14.33498	0.1508731	0.23866170	2.5740337	21	—	—
77029 2001 CG_{28}	16.5	X	96.42259	62.75656	10.56716	5.34977	0.1440851	0.29621377	2.2287732	21	2 12.7	18.7
77030 2001 CO_{29}	16.1	X	83.57310	204.02763	353.31362	6.33083	0.0811284	0.25954095	2.4340647	21	7 17.1	19.2
77031 2001 CT_{29}	14.9	X	340.42779	178.68860	124.52810	14.11004	0.1136155	0.21245576	2.7815724	21	6 29.3	18.2
77032 2001 CA_{30}	15.8	X	272.50214	159.05462	358.67090	7.59903	0.1750825	0.28041444	2.3117230	21	—	—
77033 2001 CJ_{30}	15.6	X	212.71578	220.07050	74.91603	7.61546	0.1226263	0.29050115	2.2578971	21	—	—
77034 2001 CT_{31}	14.6	X	114.92147	149.78888	84.59816	25.43007	0.1941733	0.26567280	2.3964662	21	11 3.8	18.9
77035 2001 CU_{33}	15.1	X	189.82323	234.90168	15.63426	14.53992	0.0755850	0.23236088	2.6203585	21	—	—
77036 2001 CV_{35}	16.5	X	330.95178	353.86542	146.40510	3.33113	0.1354135	0.28448021	2.2896442	21	—	—
77037 2001 CW_{35}	15.2	X	232.54735	102.69687	196.27997	8.90000	0.1216639	0.24243815	2.5472334	21	1 28.4	19.3
77038 2001 CD_{36}	15.6	X	150.66783	83.24689	27.73505	7.24547	0.0686656	0.25734170	2.4479128	21	6 9.6	19.0
77039 2001 CK_{37}	16.0	X	16.64349	295.83531	149.23677	7.08366	0.0562079	0.28495205	2.2871160	21	—	—
77040 2001 CP_{40}	15.3	X	82.78660	10.83101	52.25953	12.37653	0.1486536	0.24374065	2.5381507	21	1 21.1	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77041 2001 CR_{40}	14.9	X	326.02187	129.98098	92.14691	13.75359	0.1137062	0.24522522	2.5278965	21	2 11.9	18.2
77042 2001 CK_{41}	14.7	X	202.32493	176.52134	73.05180	16.12022	0.2184073	0.22790073	2.6544358	21	—	—
77043 2001 CQ_{41}	15.4	X	236.65780	333.01276	305.12206	3.89177	0.1476385	0.24105839	2.5569440	21	1 9.2	19.4
77044 2001 CE_{42}	15.2	X	357.93412	233.73688	192.58273	14.26849	0.0991040	0.23414769	2.6070106	21	—	—
77045 2001 CJ_{43}	14.0	X	265.63281	134.36709	76.18528	13.84665	0.2588175	0.18370899	3.0646610	21	—	—
77046 2001 CT_{43}	14.6	X	113.72535	194.36323	112.91558	24.40577	0.1293040	0.27313747	2.3526023	21	—	—
77047 2001 CF_{44}	15.7	X	249.10550	35.82507	85.98349	11.67298	0.1032442	0.27224264	2.3577547	21	10 27.9	18.8
77048 2001 CV_{47}	15.6	X	228.90410	233.63842	93.80201	5.84927	0.1695295	0.30002488	2.2098588	21	2 25.2	19.0
77049 2001 CH_{48}	16.2	X	29.90376	26.36196	328.37189	3.96047	0.1962346	0.27832574	2.3232742	21	12 28.3	19.0
77050 2001 DB	15.9	X	118.10634	225.43770	186.83282	4.25932	0.1564370	0.29490321	2.2353715	21	2 14.9	18.6
77051 2001 DL	16.1	X	235.83990	65.56020	67.91131	3.03674	0.1461063	0.27068783	2.3667746	21	10 15.3	19.1
77052 2001 DN_{1}	16.1	X	319.62110	347.19486	145.15394	5.01615	0.0450483	0.28314152	2.2968555	21	—	—
77053 2001 DR_{6}	16.1	X	225.09154	214.88526	289.80681	0.81260	0.1765462	0.27083814	2.3658988	21	10 11.9	19.5
77054 2001 DG_{7}	15.8	X	280.17893	91.74315	22.92491	7.14387	0.1020395	0.27454122	2.3445761	21	11 27.9	18.3
77055 2001 DD_{11}	16.0	X	143.85398	291.22112	347.90300	5.69338	0.1238152	0.27708107	2.3302266	21	—	—
77056 2001 DD_{12}	15.0	X	118.55278	140.24221	145.44314	14.50147	0.1033536	0.22534604	2.6744600	21	12 19.3	19.3
77057 2001 DG_{12}	14.8	X	246.85298	307.38826	5.87099	7.44946	0.1741042	0.24612211	2.5217516	21	3 1.5	18.8
77058 2001 DM_{12}	16.2	X	217.99168	146.08825	26.88878	2.97356	0.1047709	0.27298955	2.3534521	21	11 19.3	19.3
77059 2001 DS_{14}	15.8	X	200.96560	20.63345	169.58402	6.70753	0.0898171	0.27344287	2.3508503	21	11 25.5	19.0
77060 2001 DT_{15}	16.5	X	18.30728	126.75073	45.39234	5.22788	0.0814481	0.29500027	2.2348812	21	2 16.2	18.7
77061 2001 DC_{17}	15.5	X	111.65139	128.48055	103.57201	7.97661	0.0765314	0.26596456	2.3947134	21	10 12.3	18.9
77062 2001 DA_{19}	15.6	X	143.11495	170.65955	54.89179	6.15986	0.1844098	0.26765312	2.3846310	21	11 5.9	19.4
77063 2001 DK_{19}	16.2	X	208.97304	175.60747	53.24531	7.45148	0.0804003	0.27804610	2.3248317	21	—	—
77064 2001 DX_{19}	15.7	X	116.34149	344.01661	70.07478	8.16356	0.2064281	0.29463230	2.2367416	21	3 1.0	18.4
77065 2001 DU_{20}	14.4	X	95.77504	191.73010	101.74790	15.35695	0.1765434	0.22032878	2.7149087	21	12 10.9	18.8
77066 2001 DV_{20}	14.5	X	194.26620	256.99537	81.47638	9.31816	0.1865480	0.24238719	2.5475904	21	2 16.5	18.8
77067 2001 DC_{21}	15.5	X	66.80051	21.93766	52.14758	7.16191	0.0760660	0.28830145	2.2693675	21	—	—
77068 2001 DK_{21}	14.8	X	72.65300	235.52451	38.90528	8.33023	0.2338435	0.21414606	2.7669161	21	10 30.6	19.0
77069 2001 DW_{21}	14.4	X	216.39614	214.80910	101.69555	12.81903	0.1258191	0.24041316	2.5615169	21	2 7.9	18.5
77070 2001 DZ_{21}	16.0	X	235.34111	140.66245	52.11100	9.22270	0.1689151	0.27667442	2.3325093	21	12 29.7	18.9
77071 2001 DE_{22}	16.0	X	153.62727	95.14197	99.43448	10.21747	0.0520815	0.26586328	2.3953215	21	10 12.3	19.5
77072 2001 DH_{26}	14.9	X	161.56001	155.57824	131.90934	9.66397	0.2254300	0.23104307	2.6303129	21	—	—
77073 2001 DE_{27}	16.2	X	290.51891	13.14395	138.27715	5.48233	0.1127226	0.28091394	2.3089819	21	—	—
77074 2001 DF_{28}	15.6	X	255.72446	127.28807	113.64897	4.65273	0.0693276	0.23838329	2.5760375	21	—	—
77075 2001 DA_{29}	15.6	X	323.68170	103.76823	126.87354	3.98806	0.0726819	0.24595738	2.5228774	21	2 23.3	18.8
77076 2001 DU_{29}	15.5	X	203.97099	207.47733	34.43955	5.26508	0.1273509	0.23053238	2.6341960	21	—	—
77077 2001 DZ_{29}	15.1	X	238.12137	251.44539	28.92196	3.91084	0.0891698	0.24083987	2.5584904	21	1 15.7	19.0
77078 2001 DF_{30}	16.5	X	2.39647	96.95159	115.83498	3.60994	0.0795836	0.29715918	2.2240435	21	3 20.8	18.6
77079 2001 DX_{30}	15.3	X	201.90494	139.18779	137.92417	13.31134	0.1026144	0.23515238	2.5995796	21	—	—
77080 2001 DA_{32}	16.1	X	109.23519	153.86259	47.41186	3.05221	0.1458455	0.21184357	2.7869287	21	8 29.9	20.3
77081 2001 DY_{32}	15.7	X	83.72628	206.16836	1.78717	6.67686	0.0777017	0.25887393	2.4382440	21	8 1.7	18.9
77082 2001 DM_{33}	15.6	X	107.97811	145.86410	60.76649	3.24238	0.1395726	0.26110151	2.4243564	21	9 7.3	19.0
77083 2001 DS_{34}	15.8	X	18.12337	105.43743	134.67731	5.64092	0.0697922	0.25745316	2.4472062	21	6 2.9	18.6
77084 2001 DA_{35}	16.3	X	113.03228	87.44419	344.31268	2.32563	0.1136089	0.29786247	2.2205413	21	2 28.9	18.6
77085 2001 DO_{35}	16.1	X	270.53390	255.42844	141.89343	6.64665	0.1316541	0.26616580	2.3935061	21	7 18.8	19.1
77086 2001 DB_{36}	15.9	X	22.78489	251.04557	126.99392	4.77160	0.1617423	0.27896064	2.3197478	21	—	—
77087 2001 DA_{37}	15.3	X	220.65360	57.58564	170.49992	4.44162	0.1401439	0.23212254	2.6221519	21	—	—
77088 2001 DE_{41}	15.9	X	15.34821	146.91047	309.26654	6.78503	0.0650447	0.28450539	2.2895092	21	—	—
77089 2001 DQ_{43}	14.7	X	150.63141	100.36165	147.30909	6.13155	0.0983333	0.17680887	3.1438852	21	11 28.2	19.7
77090 2001 DY_{44}	16.4	X	267.58756	293.66778	125.31308	2.02864	0.0943656	0.31472482	2.1405008	21	8 25.7	18.4
77091 2001 DH_{46}	15.9	X	64.97852	62.50266	190.51896	2.04870	0.1607675	0.26222841	2.4174058	21	9 19.1	18.9
77092 2001 DA_{47}	16.1	X	233.70477	303.52868	206.84882	4.31304	0.1643622	0.27267110	2.3552841	21	11 1.1	19.3
77093 2001 DS_{47}	16.5	X	324.79779	276.94156	210.08399	4.36169	0.0891029	0.28259961	2.2997909	21	—	—
77094 2001 DZ_{48}	16.1	X	109.01590	203.81647	55.49020	7.75707	0.0832274	0.27145388	2.3623197	21	11 11.4	19.4
77095 2001 DR_{50}	15.5	X	285.03863	184.51667	63.64289	7.93770	0.2348468	0.24225373	2.5485260	21	1 11.1	19.6
77096 2001 DV_{50}	15.9	X	24.25881	1.21265	83.30729	7.85257	0.1369887	0.28687646	2.2768763	21	—	—
77097 2001 DP_{52}	16.3	X	105.64044	115.88660	338.90776	8.08102	0.0422626	0.29983849	2.2107746	21	3 9.8	18.6
77098 2001 DM_{55}	15.9	X	201.60786	182.39127	143.78902	11.12267	0.1276617	0.24440718	2.5335341	21	2 2.5	19.9
77099 2001 DN_{61}	15.9	X	228.31148	91.81910	291.06255	4.00208	0.1760407	0.30740971	2.1743243	21	5 3.1	19.3
77100 2001 DT_{63}	16.4	X	229.25677	322.73430	211.93604	2.03800	0.1051039	0.27568280	2.3380992	21	12 7.0	19.3
77101 2001 DZ_{64}	16.4	X	241.79456	217.33303	318.47879	4.39758	0.0573911	0.27751461	2.3277990	21	—	—
77102 2001 DM_{66}	16.0	X	123.77248	247.79919	181.24284	3.73117	0.1201088	0.29723831	2.2236488	21	3 13.0	18.6
77103 2001 DJ_{67}	16.2	X	130.82913	272.61560	310.06227	1.66439	0.1521998	0.26657042	2.3910835	21	10 20.1	19.9
77104 2001 DV_{67}	16.3	X	262.20254	196.39364	333.24902	1.97270	0.1569144	0.27874041	2.3209695	21	—	—
77105 2001 DG_{69}	16.3	X	231.62445	158.86550	334.79217	6.65081	0.0374367	0.26993602	2.3711671	21	10 21.6	19.5
77106 2001 DH_{69}	16.0	X	76.24501	252.50563	341.67269	2.10009	0.1338319	0.26030420	2.4293044	21	9 3.9	18.9
77107 2001 DK_{70}	16.2	X	165.42869	348.23782	156.70288	1.56895	0.1276253	0.26233485	2.4167518	21	8 14.6	19.6
77108 2001 DP_{71}	16.3	X	250.24319	148.08978	7.75664	0.79374	0.1579278	0.27530417	2.3402425	21	12 1.6	19.1
77109 2001 DE_{73}	15.8	X	27.14040	317.22369	312.36977	3.56805	0.0878789	0.25886035	2.4383293	21	8 2.9	18.5
77110 2001 DG_{73}	14.9	X	210.88594	326.47116	343.03811	14.21302	0.1806309	0.23989853	2.5651789	21	1 27.7	19.3
77111 2001 DT_{73}	16.5	X	19.55329	224.48831	335.29648	4.86797	0.1171397	0.29688246	2.2254253	21	3 26.1	18.5
77112 2001 DK_{74}	14.3	X	173.82016	266.81659	37.60105	13.33306	0.1740550	0.22600539	2.6692557	21	—	—
77113 2001 DU_{74}	14.5	X	94.58594	201.81160	23.92336	15.53184	0.0953877	0.25800873	2.4436919	21	9 16.6	18.0
77114 2001 DJ_{75}	16.6	X	123.21325	225.80392	192.71535	2.73692	0.0828956	0.29683118	2.2256816	21	2 18.9	19.1
77115 2001 DK_{75}	16.4	X	171.07500	18.05382	180.25712	0.88308	0.1136107	0.27212356	2.3584424	21	10 30.6	19.9
77116 2001 DO_{75}	17.0	X	207.52774	312.67101	232.61956	1.75650	0.1006640	0.27501764	2.3418677	21	11 24.4	20.0
77117 2001 DP_{76}	15.3	X	217.80219	302.44048	347.02157	2.31468	0.1125932	0.23957479	2.5674892	21	1 5.8	19.3
77118 2001 DB_{79}	14.6	X	280.68416	82.28223	120.98069	14.90091	0.1282743	0.23554964	2.5966560	21	—	—
77119 2001 DB_{81}	15.2	X	64.31333	183.88903	22.24118	9.91816	0.1840762	0.25416871	2.4682435	21	7 19.9	18.3
77120 2001 DL_{81}	15.4	X	281.05766	54.06743	64.07718	7.22275	0.0771299	0.27359186	2.3499968	21	12 8.2	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77121 2001 DD_{88}	15.1	X	211.20519	70.89011	330.67318	10.39879	0.0632802	0.25268627	2.4778877	21	5 16.4	18.8
77122 2001 DF_{88}	15.4	X	274.74059	301.60635	314.01658	6.39290	0.1030571	0.28768971	2.2725834	21	1 13.9	18.6
77123 2001 DX_{88}	16.0	X	243.64875	79.16320	152.40189	1.96454	0.0920492	0.23356652	2.6113334	21	—	—
77124 2001 DA_{89}	16.8	X	175.32000	83.94060	29.33326	1.45450	0.1477202	0.25981375	2.4323606	21	7 14.3	20.7
77125 2001 DC_{89}	14.6	X	131.81551	165.30307	160.94399	5.66715	0.0511098	0.18315028	3.0708905	21	—	—
77126 2001 DX_{90}	16.2	X	190.07360	187.86855	299.85271	0.48334	0.1319593	0.26303466	2.4124634	21	8 17.3	19.7
77127 2001 DJ_{93}	14.9	X	37.53714	188.55804	143.16355	25.61367	0.2367283	0.27376367	2.3490135	21	12 16.8	18.5
77128 2001 DA_{95}	14.8	X	154.06318	9.91204	295.38011	14.20462	0.1089604	0.23328654	2.6134223	21	—	—
77129 2001 DX_{97}	16.1	X	319.17214	120.84720	8.88829	3.94866	0.0373835	0.28148248	2.3058717	21	—	—
77130 2001 DG_{99}	15.9	X	70.12535	338.84141	270.69192	7.15355	0.0804069	0.26297384	2.4128354	21	9 4.8	19.0
77131 2001 DK_{99}	16.3	X	236.41120	268.94455	279.78084	5.48701	0.0755722	0.27765209	2.3270306	21	—	—
77132 2001 DL_{101}	15.7	X	263.48269	133.96438	61.75976	6.71359	0.0560653	0.28338983	2.2955136	21	—	—
77133 2001 DM_{101}	14.7	X	297.64959	178.94904	116.49652	16.32864	0.1212610	0.20404440	2.8575001	21	4 20.0	18.9
77134 2001 DX_{102}	16.2	X	150.74947	258.28556	152.24002	2.26474	0.1271598	0.29907407	2.2145401	21	3 23.0	19.1
77135 2001 DT_{103}	15.9	X	320.95287	233.70493	303.96917	5.78815	0.0398651	0.28944498	2.2633864	21	—	—
77136 Mendillo	15.9	X	339.23795	258.65700	158.46131	7.22280	0.1026891	0.27418979	2.3465791	21	12 20.5	18.4
77137 2001 DQ_{107}	15.4	X	104.13198	170.92132	162.54726	4.23279	0.1867654	0.22910409	2.6451328	21	—	—
77138 Puiching	15.9	X	168.97859	100.98951	112.67500	2.92128	0.1627771	0.26859315	2.3790638	21	11 14.9	19.5
77139 2001 EY	14.5	X	302.45650	234.50927	15.29370	12.28332	0.1622753	0.24505508	2.5290665	21	2 12.1	18.2
77140 2001 EC_{1}	16.0	X	85.36159	75.42869	34.47787	6.40033	0.1371697	0.29792598	2.2202257	21	3 19.8	18.1
77141 2001 ES_{1}	16.4	X	295.16355	86.93485	56.05033	8.16343	0.1893162	0.28080050	2.3096037	21	—	—
77142 2001 EC_{2}	15.8	X	170.39502	98.60238	53.14304	9.40934	0.1580922	0.26413989	2.4057291	21	9 2.8	19.7
77143 2001 EN_{3}	16.8	X	4.73241	221.10022	2.42814	3.63094	0.1132132	0.29814352	2.2191456	21	4 4.9	18.8
77144 2001 EC_{5}	15.2	X	88.65205	169.76017	157.10869	15.11487	0.1143309	0.22645711	2.6657050	21	—	—
77145 2001 ES_{5}	16.0	X	217.69936	77.67942	64.90257	3.18791	0.1490110	0.26903413	2.3764634	21	10 5.9	19.3
77146 2001 EC_{6}	16.1	X	239.82845	64.65697	108.98767	4.59847	0.1188467	0.27509436	2.3414322	21	12 17.7	18.9
77147 2001 EV_{6}	15.8	X	278.80244	127.64076	127.78170	5.59063	0.1365210	0.28859063	2.2678513	21	1 14.1	19.1
77148 2001 EF_{7}	15.9	X	96.86087	228.50126	77.93656	4.57933	0.1156668	0.27201355	2.3590783	21	12 30.4	19.4
77149 2001 ER_{7}	16.4	X	209.32455	21.52454	75.45422	3.28053	0.0834833	0.30984635	2.1629100	21	8 2.9	19.2
77150 2001 EL_{8}	15.6	X	97.00209	262.95486	14.54447	5.89586	0.1196411	0.26825686	2.3810517	21	11 22.2	19.0
77151 2001 ER_{8}	16.3	X	4.04326	102.15405	121.79685	2.71814	0.1145643	0.29724235	2.2236286	21	4 6.6	18.1
77152 2001 EX_{8}	16.1	X	101.57423	39.23642	127.40226	2.90709	0.1430036	0.25588745	2.4571786	21	7 5.7	19.3
77153 2001 EZ_{8}	16.5	X	238.22817	90.32107	31.33280	2.93403	0.1360654	0.26957205	2.3733009	21	10 2.9	19.7
77154 2001 EO_{9}	16.9	X	312.54049	110.42665	127.76382	2.74301	0.1737641	0.29101060	2.2552612	21	1 24.6	19.9
77155 2001 ES_{10}	14.6	X	356.28886	141.28088	154.06728	6.71650	0.1895359	0.20640926	2.8356324	21	7 14.8	17.5
77156 2001 EE_{11}	15.6	X	236.82772	92.53715	142.82416	7.02816	0.1035662	0.28086638	2.3092425	21	—	—
77157 2001 EJ_{11}	15.1	X	97.47965	261.14507	32.57769	10.62425	0.0498018	0.22219408	2.6996931	21	11 28.8	19.0
77158 2001 EN_{15}	14.6	X	192.32615	234.75610	26.91460	10.36635	0.1900861	0.17727058	3.1384239	21	—	—
77159 2001 ED_{16}	15.3	X	264.02663	261.13812	346.33897	5.49234	0.1322614	0.28629266	2.2799706	21	—	—
77160 2001 EK_{18}	15.8	X	236.29659	293.33449	252.06447	4.50805	0.1405301	0.27660202	2.3329163	21	12 25.3	18.5
77161 2001 EY_{18}	16.5	X	36.13227	254.78311	261.03904	7.34916	0.1068309	0.29625127	2.2285852	21	2 15.4	18.6
77162 2001 EL_{19}	16.1	X	303.47869	253.47695	281.11886	5.68717	0.1170849	0.28548961	2.2842441	21	—	—
77163 2001 EM_{19}	14.8	X	276.01033	328.00222	313.38399	12.90745	0.1241046	0.24646946	2.5193817	21	2 18.9	18.5
77164 2001 ER_{19}	15.5	X	333.97120	310.69174	243.35641	12.38124	0.1060486	0.24350383	2.5397961	21	1 11.9	18.9
77165 2001 ES_{19}	14.8	X	300.01339	345.98916	267.17484	13.43266	0.2276604	0.24457040	2.5324067	21	1 27.2	18.7
77166 2001 EV_{19}	14.9	X	337.92034	11.38053	156.49293	2.03815	0.0252354	0.19009968	2.9955861	21	1 10.1	19.0
77167 2001 EB_{20}	15.2	X	39.15925	263.65689	23.31258	4.91448	0.1439456	0.21378904	2.7699957	21	9 22.2	18.6
77168 2001 EK_{22}	15.6	X	102.43847	330.22472	335.57044	5.76548	0.1276178	0.27428330	2.3460457	21	—	—
77169 2001 ER_{22}	16.0	X	99.97137	40.66812	160.65314	4.78887	0.1433876	0.25830522	2.4418216	21	8 20.1	19.4
77170 2001 EK_{23}	16.2	X	252.32753	337.18307	313.51800	6.07350	0.1055712	0.29108382	2.2548830	21	2 2.5	19.4
77171 2001 EN_{24}	15.2	X	40.81613	10.23116	164.19841	14.65604	0.0985527	0.24581872	2.5238260	21	4 11.2	18.1
77172 2001 EF_{25}	14.6	X	95.23129	323.73117	349.40121	13.18143	0.1811371	0.22605490	2.6688659	21	—	—
77173 2001 ED_{26}	16.0	X	51.29507	284.70535	1.32857	1.84798	0.1853621	0.26190925	2.4193692	21	10 19.8	19.0
77174 2001 FW	16.3	X	304.81971	258.62708	314.33066	7.60258	0.0659945	0.28877461	2.2668879	21	—	—
77175 2001 FP_{1}	16.3	X	211.94468	178.09048	314.19292	1.72769	0.1371677	0.26601571	2.3944064	21	9 14.8	19.6
77176 2001 FU_{1}	16.1	X	205.48405	23.27343	49.82798	5.61008	0.1498001	0.30802470	2.1714293	21	6 19.9	19.2
77177 2001 FD_{2}	14.7	X	165.68736	266.75121	57.14746	15.76053	0.1724163	0.23274594	2.6174676	21	1 1.7	18.9
77178 2001 FH_{3}	15.7	X	141.24690	151.97855	161.05057	4.91445	0.1230273	0.27769095	2.3268135	21	—	—
77179 2001 FV_{4}	14.8	X	267.42562	304.13311	29.28178	10.80828	0.2206035	0.19698268	2.9253916	21	4 13.7	19.4
77180 2001 FA_{5}	15.3	X	113.45078	241.79150	46.90300	2.83427	0.2052479	0.27195687	2.3594061	21	12 27.9	19.2
77181 2001 FL_{6}	15.4	X	317.39071	247.51543	359.48929	4.60851	0.0732433	0.24566495	2.5248791	21	3 8.1	18.4
77182 2001 FM_{8}	15.6	X	77.50185	227.18315	319.15492	4.26175	0.0873311	0.30080820	2.2060208	21	6 20.9	18.0
77183 2001 FS_{8}	14.6	X	205.55524	356.39268	224.47257	11.57828	0.2305584	0.22291732	2.6938506	21	12 14.5	19.0
77184 2001 FD_{9}	15.0	X	267.74577	169.23014	29.86477	12.21145	0.1212355	0.23056643	2.6339367	21	—	—
77185 Cherryh	15.9	X	258.41129	231.40680	12.62098	3.14478	0.1739792	0.23536924	2.5979827	21	—	—
77186 2001 FS_{9}	15.3	X	160.50051	252.26696	8.85449	6.84484	0.0889698	0.27271911	2.3550077	21	—	—
77187 2001 FY_{9}	16.2	X	310.67496	81.97223	181.20481	6.70689	0.0987508	0.29457083	2.2370527	21	3 7.3	18.6
77188 2001 FZ_{9}	14.6	X	128.99393	169.68161	179.56968	15.55716	0.1371244	0.23403138	2.6078743	21	—	—
77189 2001 FM_{10}	16.3	X	18.52015	278.66576	265.99495	1.82561	0.1099710	0.29421528	2.2388547	21	3 1.7	18.2
77190 2001 FP_{10}	15.2	X	119.83843	87.99981	194.62491	3.36205	0.0673904	0.22320478	2.6915372	21	12 13.7	19.1
77191 2001 FE_{11}	15.8	X	127.46169	303.49434	3.34234	6.78481	0.1221317	0.27537485	2.3398420	21	—	—
77192 2001 FU_{12}	15.3	X	357.54213	221.61712	34.26829	5.72421	0.0635919	0.25108688	2.4883991	21	5 20.6	18.1
77193 2001 FD_{14}	16.8	X	251.70521	80.69275	164.87619	2.59390	0.1680932	0.28301035	2.2975652	21	—	—
77194 2001 FH_{14}	15.0	X	248.30954	248.91218	128.47537	2.69297	0.0659306	0.20582027	2.8410396	21	6 3.9	19.1
77195 2001 FB_{16}	15.2	X	218.77953	51.13272	176.08376	6.48593	0.2941637	0.22687252	2.6624499	21	12 28.1	19.5
77196 2001 FT_{16}	15.6	X	357.57694	220.23759	118.08308	2.78082	0.1437866	0.26142240	2.4223721	21	9 29.7	17.8
77197 2001 FB_{17}	16.3	X	277.22826	107.67505	28.36635	4.44200	0.1669173	0.27539870	2.3397069	21	12 16.7	18.4
77198 2001 FK_{17}	15.3	X	293.47558	233.86070	198.09768	2.57040	0.0429760	0.21855665	2.7295645	21	10 18.6	18.8
77199 2001 FH_{18}	15.6	X	221.05731	131.51246	347.72481	8.02966	0.0684649	0.26428447	2.4048516	21	9 15.5	18.7
77200 2001 FY_{18}	15.6	X	297.96870	274.67494	313.84664	1.63421	0.0391703	0.23988460	2.5652782	21	1 23.3	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77201 2001 FR_{19}	15.0	X	302.41677	263.68837	320.36519	3.72888	0.1724435	0.23903436	2.5713577	21	1 5.7	18.8
77202 2001 FX_{19}	14.1	X	120.80463	5.05885	339.49215	4.39530	0.1602792	0.18212790	3.0823721	21	—	—
77203 2001 FL_{20}	15.8	X	232.59112	281.79772	337.18742	5.89863	0.0849785	0.28300646	2.2975862	21	—	—
77204 2001 FW_{20}	16.0	X	333.90397	331.82759	247.23199	3.77244	0.1934116	0.24281183	2.5446194	21	2 2.0	19.1
77205 2001 FX_{20}	15.2	X	125.79807	83.00474	201.09180	13.72536	0.0272524	0.22458841	2.6804712	21	12 20.1	19.2
77206 2001 FZ_{20}	16.0	X	234.02985	330.46858	317.40940	5.98690	0.1947160	0.28535593	2.2849574	21	1 11.7	19.7
77207 2001 FE_{21}	14.5	X	333.55779	179.19799	92.37890	10.09255	0.1808524	0.19748197	2.9204588	21	4 30.0	18.0
77208 2001 FG_{21}	14.7	X	254.39637	68.90073	162.51705	13.28249	0.1560434	0.23155092	2.6264656	21	—	—
77209 2001 FH_{21}	15.8	X	198.03012	47.65244	81.93596	8.90637	0.1946983	0.26234255	2.4167045	21	8 28.6	19.8
77210 2001 FQ_{21}	16.3	X	5.99695	40.38180	99.23819	6.17972	0.1018902	0.28565600	2.2833570	21	—	—
77211 2001 FT_{21}	14.6	X	161.56809	315.74427	50.32719	14.11575	0.1036262	0.23765734	2.5812807	21	2 17.7	18.7
77212 2001 FT_{22}	15.8	X	253.75394	197.62143	49.40828	4.80546	0.1593672	0.28181479	2.3040586	21	—	—
77213 2001 FL_{23}	16.2	X	288.95657	126.86943	54.49054	5.21096	0.0991857	0.28014452	2.3132077	21	—	—
77214 2001 FM_{23}	15.5	X	144.16371	65.55425	164.97772	6.32370	0.0754762	0.26617530	2.3934492	21	11 13.8	18.9
77215 2001 FU_{23}	16.1	X	350.95383	90.73152	89.71155	7.06544	0.0697307	0.28827482	2.2695073	21	1 15.9	18.7
77216 2001 FO_{24}	15.1	X	109.20399	304.37490	271.19517	5.97832	0.1566005	0.21239345	2.7821164	21	9 13.2	19.4
77217 2001 FS_{26}	16.4	X	9.62505	334.82589	230.11495	3.14005	0.1423708	0.29445400	2.2376444	21	3 12.5	18.3
77218 2001 FU_{26}	15.3	X	241.87018	4.96205	267.82817	3.37643	0.1713401	0.23561558	2.5961715	21	1 7.2	19.4
77219 2001 FX_{26}	15.8	X	301.44415	35.66354	204.22329	5.69967	0.1600843	0.28855057	2.2680611	21	1 14.9	19.1
77220 2001 FA_{28}	15.2	X	233.06668	190.44207	13.72799	8.91029	0.1164278	0.22904586	2.6455811	21	—	—
77221 2001 FE_{28}	15.2	X	293.66853	272.13705	58.89950	4.90595	0.2109039	0.25343010	2.4730368	21	5 6.5	18.2
77222 2001 FA_{29}	14.9	X	67.55366	214.47486	41.74375	6.01951	0.1379484	0.25815749	2.4427530	21	9 25.8	18.0
77223 2001 FP_{29}	15.3	X	329.27885	96.15562	68.58789	8.28516	0.1353085	0.23633021	2.5909352	21	—	—
77224 2001 FL_{32}	15.8	X	331.11554	61.90022	151.39588	6.22158	0.1245174	0.23966482	2.5668463	21	2 2.6	19.0
77225 2001 FZ_{33}	15.5	X	250.93747	21.69277	221.84306	4.59127	0.1167601	0.23716807	2.5848295	21	—	—
77226 2001 FE_{34}	16.2	X	159.79381	192.84632	350.09500	1.99529	0.1480099	0.26547749	2.3976415	21	9 27.6	19.9
77227 2001 FH_{34}	16.2	X	274.22414	138.80360	342.76900	7.40362	0.0565962	0.27381078	2.3487440	21	12 3.9	19.0
77228 2001 FF_{35}	15.7	X	278.40347	221.76501	352.90523	5.50655	0.1571631	0.23577984	2.5949656	21	—	—
77229 2001 FN_{35}	15.9	X	306.39354	83.46981	356.25835	7.91512	0.0509868	0.27225247	2.3576979	21	11 23.8	18.6
77230 2001 FC_{36}	16.1	X	183.42045	338.12454	177.43846	3.21204	0.0124174	0.26478896	2.4017961	21	9 22.6	19.2
77231 2001 FL_{36}	16.1	X	236.40477	308.80938	236.89465	1.19596	0.1492195	0.27583553	2.3372361	21	12 24.5	18.7
77232 2001 FA_{38}	14.4	X	88.84472	68.25721	184.34279	15.41647	0.1991316	0.21403627	2.7678622	21	10 17.8	18.6
77233 2001 FD_{38}	16.0	X	88.99203	176.50936	263.49189	3.56887	0.1113979	0.29236686	2.2482812	21	2 2.2	18.3
77234 2001 FY_{38}	15.9	X	308.53606	236.91339	327.87813	4.02928	0.1486692	0.23844097	2.5756220	21	—	—
77235 2001 FA_{39}	15.6	X	114.06056	323.13619	285.31979	5.80664	0.0878086	0.26886650	2.3774511	21	10 31.3	19.1
77236 2001 FJ_{39}	15.9	X	329.47850	332.17024	273.33771	3.51691	0.1697853	0.24597669	2.5227453	21	3 5.9	19.0
77237 2001 FS_{39}	16.2	X	154.39530	142.33739	16.14160	2.62362	0.1200044	0.26118300	2.4238521	21	8 22.0	19.8
77238 2001 FB_{40}	15.5	X	259.49240	223.23788	355.13897	7.13330	0.0692431	0.28236357	2.3010723	21	—	—
77239 2001 FZ_{40}	15.9	X	95.48463	302.48791	351.64381	2.31244	0.1668552	0.26852716	2.3794536	21	12 16.3	19.5
77240 2001 FD_{41}	15.2	X	84.26723	292.36583	351.41740	6.58552	0.1402774	0.26589053	2.3951578	21	11 17.5	18.7
77241 2001 FO_{41}	16.4	X	328.95051	154.81473	7.19622	6.27769	0.1012654	0.28513061	2.2861610	21	—	—
77242 2001 FC_{42}	15.6	X	204.86210	104.36944	184.45324	10.91579	0.0529323	0.23532150	2.5983340	21	—	—
77243 2001 FD_{42}	15.4	X	126.86129	335.42691	354.42098	2.95166	0.1705753	0.27800763	2.3250461	21	—	—
77244 2001 FZ_{42}	15.8	X	266.81110	241.73739	354.83128	7.41646	0.0394088	0.28534872	2.2849959	21	—	—
77245 2001 FN_{43}	16.5	X	145.24685	4.10429	157.09745	1.61884	0.1330121	0.25962187	2.4335589	21	8 15.3	20.0
77246 2001 FY_{43}	15.2	X	276.90534	208.68937	31.14934	1.85694	0.2405897	0.18703187	3.0282540	21	1 1.9	20.2
77247 2001 FC_{44}	16.3	X	267.85502	155.64603	26.87090	3.42292	0.1598656	0.27876851	2.3208135	21	—	—
77248 2001 FD_{44}	15.4	X	232.79447	301.92325	320.40322	5.71081	0.0968944	0.28388273	2.2928558	21	—	—
77249 2001 FP_{45}	15.7	X	331.42813	246.33076	320.05008	5.14363	0.1030518	0.24162118	2.5529720	21	1 28.8	18.7
77250 2001 FQ_{45}	15.3	X	211.47654	6.80888	216.95148	2.77943	0.0278379	0.22703100	2.6612108	21	—	—
77251 2001 FY_{45}	16.1	X	179.00677	226.10709	3.52642	2.18790	0.1581824	0.27096318	2.3651709	21	12 13.7	19.6
77252 2001 FZ_{45}	14.8	X	224.30807	40.13464	190.33424	11.45510	0.1460238	0.22855227	2.6493888	21	—	—
77253 2001 FE_{46}	16.0	X	53.68066	238.20229	323.45207	3.77037	0.1150215	0.30080150	2.2060536	21	6 8.3	18.0
77254 2001 FF_{46}	14.9	X	253.93979	231.86432	15.42050	14.06650	0.0539383	0.23539009	2.5978292	21	—	—
77255 2001 FY_{46}	15.5	X	274.58053	188.74553	13.91526	12.15318	0.1119348	0.23224554	2.6212260	21	—	—
77256 2001 FD_{47}	15.9	X	281.75307	23.72960	178.71612	6.29396	0.0687539	0.28209367	2.3025398	21	—	—
77257 2001 FA_{48}	15.8	X	81.73841	166.83865	47.33104	3.11440	0.1438711	0.25586970	2.4572922	21	8 17.1	19.0
77258 2001 FH_{48}	15.0	X	221.20444	190.30336	15.67420	11.95521	0.0776804	0.22508566	2.6765221	21	12 31.4	19.0
77259 2001 FX_{48}	14.8	X	68.54564	85.36568	216.15930	10.98117	0.1297520	0.21695416	2.7429890	21	11 16.5	18.6
77260 2001 FA_{49}	15.7	X	178.85740	212.72116	34.90119	6.66231	0.0798471	0.27310324	2.3527989	21	—	—
77261 2001 FR_{49}	15.3	X	20.46317	299.75124	220.02659	5.32738	0.0935823	0.24199055	2.5503734	21	2 8.9	18.2
77262 2001 FS_{49}	16.0	X	22.58288	5.99075	213.65180	5.77535	0.1447197	0.29742588	2.2227138	21	5 7.7	17.4
77263 2001 FJ_{50}	15.1	X	344.54094	190.16351	354.33036	5.76474	0.1253515	0.23965454	2.5669197	21	1 16.9	18.1
77264 2001 FX_{50}	16.0	X	274.99539	355.18706	236.04267	4.88116	0.0835413	0.28386075	2.2929741	21	—	—
77265 2001 FB_{51}	15.4	X	230.79679	246.70108	307.34174	1.99134	0.1269402	0.22516032	2.6759304	21	12 20.4	19.2
77266 2001 FX_{51}	15.9	X	287.23108	350.94417	138.03405	1.81199	0.1894500	0.27559558	2.3385925	21	12 23.7	17.5
77267 2001 FH_{52}	16.2	X	221.75453	22.99179	122.23539	1.69566	0.0557014	0.26854179	2.3793671	21	10 25.4	19.1
77268 2001 FO_{52}	15.7	X	232.36146	145.58565	349.50176	7.77932	0.1216606	0.26784288	2.3835045	21	10 12.4	19.0
77269 2001 FX_{52}	16.0	X	320.04995	239.01165	269.51118	4.09633	0.0809324	0.28053651	2.3110524	21	—	—
77270 2001 FD_{53}	15.6	X	208.30100	254.33694	20.01376	11.26581	0.1079294	0.27957362	2.3163557	21	—	—
77271 2001 FY_{53}	15.0	X	261.37145	73.23301	188.98527	6.49511	0.0928088	0.28489954	2.2873970	21	1 7.4	18.2
77272 2001 FV_{54}	15.9	X	9.33677	40.93564	152.11675	3.87979	0.0252951	0.24595135	2.5229186	21	3 15.2	19.1
77273 2001 FO_{55}	14.8	X	134.28608	318.77804	265.28939	5.06372	0.2332504	0.21282493	2.7783549	21	10 21.5	19.7
77274 2001 FP_{55}	15.4	X	1.27856	196.38907	7.62355	4.86809	0.1953284	0.24267289	2.5455905	21	3 3.4	17.7
77275 2001 FO_{57}	15.6	X	218.64435	107.71000	80.59172	3.85835	0.1676381	0.27191096	2.3596717	21	12 2.3	18.6
77276 2001 FX_{57}	14.9	X	213.10524	128.79081	98.77485	12.86850	0.1228152	0.22664474	2.6642335	21	—	—
77277 2001 FV_{59}	16.3	X	88.49492	137.79613	25.61075	5.38182	0.0584582	0.25355829	2.4722033	21	5 30.3	19.4
77278 2001 FL_{61}	15.3	X	349.40122	276.96779	30.31740	5.43388	0.1149505	0.25732023	2.4480489	21	7 24.4	17.8
77279 2001 FM_{61}	15.9	X	99.57241	356.89697	147.21952	5.65815	0.0394279	0.25207884	2.4818667	21	5 18.6	19.1
77280 2001 FC_{62}	15.6	X	149.61951	244.77504	155.40834	6.67835	0.0244130	0.24488170	2.5302601	21	3 2.7	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77281 2001 FO_{63}	15.3	X	328.34575	253.75045	60.96125	3.21183	0.1301008	0.25541086	2.4602343	21	6 21.0	17.8
77282 2001 FW_{63}	15.1	X	283.06254	309.26245	143.13542	4.53389	0.0642745	0.22171018	2.7036198	21	10 30.5	18.6
77283 2001 FR_{64}	15.2	X	77.41114	208.17408	62.43500	3.09716	0.1807390	0.21402598	2.7679509	21	10 25.3	19.2
77284 2001 FD_{65}	16.0	X	275.16246	2.92602	106.01762	5.38560	0.0877612	0.27158262	2.3615731	21	11 16.1	18.6
77285 2001 FN_{65}	15.1	X	119.90697	169.23880	75.44339	4.39926	0.1390522	0.21705432	2.7421451	21	11 1.9	19.5
77286 2001 FR_{65}	16.0	X	210.87563	212.95299	41.57499	4.53133	0.1181266	0.27927933	2.3179827	21	—	—
77287 2001 FA_{66}	15.7	X	23.42700	319.15945	30.15697	4.95071	0.1090705	0.26789432	2.3831994	21	11 24.3	18.3
77288 2001 FN_{66}	15.7	X	257.19576	281.69287	23.47098	10.27742	0.0778471	0.29289708	2.2455670	21	3 5.2	18.8
77289 2001 FX_{66}	15.8	X	291.70073	93.44810	104.92148	4.24641	0.1339136	0.28365179	2.2941001	21	—	—
77290 2001 FU_{69}	15.5	X	79.12393	253.04030	60.36744	7.25753	0.1245131	0.26874550	2.3781646	21	12 20.3	18.9
77291 2001 FL_{71}	16.4	X	297.46574	305.10162	159.84815	9.66953	0.1891129	0.27450822	2.3447641	21	12 9.8	18.5
77292 2001 FN_{71}	15.7	X	334.88448	85.32925	62.81619	5.55640	0.0879040	0.28334720	2.2957439	21	—	—
77293 2001 FR_{71}	14.8	X	128.11616	202.03146	175.91697	13.90500	0.0948347	0.23668459	2.5883483	21	1 15.3	18.6
77294 2001 FV_{71}	15.1	X	131.41661	209.21879	177.58805	12.54459	0.1005218	0.23845496	2.5755212	21	1 30.6	18.8
77295 2001 FZ_{71}	16.4	X	140.09954	337.47353	137.66513	3.11708	0.1532892	0.25480209	2.4641514	21	6 11.5	20.1
77296 2001 FW_{72}	16.0	X	89.59748	98.85566	61.13966	5.27340	0.0691851	0.29976939	2.2111143	21	5 27.0	18.2
77297 2001 FM_{73}	15.7	X	164.74274	34.11997	108.49770	3.38735	0.1541329	0.26004198	2.4309372	21	8 11.9	19.5
77298 2001 FP_{73}	15.1	X	109.19275	202.70644	46.82392	4.59343	0.0600979	0.21610582	2.7501628	21	10 21.0	19.1
77299 2001 FV_{73}	15.6	X	227.91389	338.83126	58.48611	4.68956	0.1154972	0.30399073	2.1905970	21	5 27.9	18.4
77300 2001 FD_{76}	16.0	X	107.23230	63.15024	105.49197	3.25070	0.1183841	0.25467060	2.4649995	21	7 12.3	19.4
77301 2001 FL_{77}	15.0	X	135.13058	46.46345	172.92365	11.27619	0.0484294	0.21497594	2.7597907	21	10 13.1	19.0
77302 2001 FO_{77}	14.8	X	322.85901	100.77297	128.04541	5.61625	0.1645145	0.24105046	2.5570000	21	2 6.0	17.8
77303 2001 FG_{78}	15.3	X	245.11739	191.45698	38.02262	12.16030	0.1442929	0.23002432	2.6380734	21	—	—
77304 2001 FP_{78}	14.8	X	213.77155	46.88677	189.34389	11.48602	0.1451938	0.22546840	2.6734923	21	—	—
77305 2001 FR_{78}	15.8	X	179.36577	7.30968	96.36801	6.31613	0.0843018	0.25590954	2.4570372	21	7 5.3	19.1
77306 2001 FH_{79}	15.5	X	258.24176	168.05631	85.06711	8.04759	0.1330168	0.28176438	2.3043334	21	—	—
77307 2001 FJ_{79}	15.8	X	92.66897	131.27768	107.02726	5.65054	0.1610213	0.25763126	2.4460782	21	10 5.4	19.4
77308 2001 FR_{79}	15.4	X	254.34611	311.13171	297.92862	6.56387	0.0909155	0.28382455	2.2931691	21	—	—
77309 2001 FU_{79}	14.7	X	111.12765	279.01093	314.78210	8.08799	0.1116708	0.21378455	2.7700345	21	10 3.2	18.9
77310 2001 FD_{81}	15.5	X	321.99539	229.81768	265.48927	8.13355	0.0705384	0.23305187	2.6151764	21	—	—
77311 2001 FL_{81}	16.1	X	62.68770	171.15549	299.49856	7.16957	0.0603968	0.29162614	2.2520866	21	1 29.4	18.3
77312 2001 FO_{81}	16.0	X	44.97547	302.84265	285.26239	7.25095	0.0788219	0.25489963	2.4635228	21	6 30.7	18.7
77313 2001 FY_{81}	15.2	X	314.85602	247.08194	307.03562	6.74166	0.1375599	0.23800333	2.5787784	21	—	—
77314 2001 FE_{82}	15.7	X	313.01162	277.36543	299.47460	6.49482	0.0418465	0.28925686	2.2643676	21	1 16.3	18.1
77315 2001 FL_{82}	16.2	X	183.46484	251.77756	284.12962	4.38378	0.1375948	0.26681756	2.3896068	21	10 10.2	19.9
77316 2001 FY_{82}	16.0	X	166.20064	322.73163	303.26939	6.66278	0.0989453	0.27488789	2.3426045	21	—	—
77317 2001 FJ_{83}	16.0	X	176.04647	307.03690	311.54706	5.05080	0.0311550	0.27534615	2.3400046	21	—	—
77318 Danieltsui	15.9	X	272.07839	49.16380	175.86276	5.18338	0.0931061	0.28238031	2.3009814	21	—	—
77319 2001 FJ_{87}	14.7	X	200.57845	232.74948	50.43133	10.19822	0.0612283	0.18362856	3.0655559	21	—	—
77320 2001 FO_{87}	16.4	X	117.70593	147.70298	112.74329	3.88086	0.1835092	0.26570408	2.3962782	21	11 26.5	20.2
77321 2001 FS_{87}	15.7	X	168.68021	183.24485	72.84144	4.27410	0.0524856	0.22535984	2.6743508	21	—	—
77322 2001 FO_{90}	15.9	X	244.88246	328.99400	290.52238	5.55233	0.1257867	0.28496255	2.2870598	21	—	—
77323 2001 FU_{90}	16.0	X	226.24755	85.44716	59.79583	3.29910	0.1330507	0.26837545	2.3803502	21	10 20.6	19.2
77324 2001 FY_{90}	15.2	X	259.25584	317.57524	306.77990	6.11279	0.0843749	0.28697784	2.2763400	21	1 9.4	18.2
77325 2001 FG_{91}	14.6	X	201.82410	105.17621	95.44047	15.11775	0.2205721	0.21996001	2.7179423	21	11 21.8	19.2
77326 2001 FV_{92}	15.4	X	153.23443	165.37126	121.32311	7.00174	0.2352436	0.27436282	2.3455924	21	—	—
77327 2001 FX_{92}	15.6	X	220.58075	180.89829	92.25282	5.83313	0.1925455	0.28209399	2.3025381	21	—	—
77328 2001 FZ_{92}	15.8	X	172.99469	194.85344	82.37054	6.13322	0.2002831	0.27786348	2.3258502	21	—	—
77329 2001 FL_{93}	15.9	X	112.08002	327.53862	94.79576	6.98212	0.1457081	0.29379602	2.2409841	21	2 23.1	18.4
77330 2001 FB_{94}	15.1	X	221.17657	232.76112	66.21935	6.62981	0.1330353	0.23857717	2.5746417	21	1 21.7	19.2
77331 2001 FH_{94}	14.4	X	187.45927	177.01987	133.80691	11.33566	0.0948231	0.18712916	3.0272043	21	1 9.6	19.1
77332 2001 FH_{95}	15.9	X	311.32271	99.22817	123.02958	6.91087	0.1482266	0.28875974	2.2669657	21	1 5.9	19.0
77333 2001 FL_{96}	14.9	X	277.80520	258.06441	43.34746	14.51668	0.0912604	0.24601212	2.5225031	21	3 31.4	18.5
77334 2001 FR_{96}	14.7	X	122.14502	211.94852	42.50543	10.73412	0.1090771	0.21844953	2.7304568	21	11 12.5	18.7
77335 2001 FU_{96}	15.8	X	131.51976	78.02628	105.24295	6.28084	0.0608398	0.25994987	2.4315114	21	8 27.4	19.1
77336 2001 FW_{96}	15.4	X	56.40603	258.43015	85.85218	7.23645	0.1414820	0.27064503	2.3670241	21	—	—
77337 2001 FX_{97}	15.9	X	174.08499	138.96647	122.52666	6.88681	0.1148650	0.27398395	2.3477542	21	—	—
77338 2001 FS_{98}	14.1	X	165.00461	351.28622	56.44406	15.82514	0.1280934	0.24583841	2.5236913	21	4 14.9	18.1
77339 2001 FT_{98}	14.5	X	347.95837	173.37257	61.45815	14.05162	0.0762566	0.24590484	2.5232367	21	4 11.8	17.6
77340 2001 FL_{101}	14.3	X	231.99994	11.39038	285.87946	9.65664	0.1875646	0.19129300	2.9831151	21	1 31.3	19.4
77341 2001 FO_{101}	15.6	X	269.26026	244.26891	283.46410	6.37653	0.0562364	0.27878975	2.3206956	21	—	—
77342 2001 FH_{102}	16.2	X	156.02448	221.45193	277.18445	5.72661	0.0598641	0.25932687	2.4354041	21	7 23.9	19.6
77343 2001 FN_{102}	16.5	X	281.16531	0.10136	143.34246	0.36611	0.1513228	0.27633367	2.3344264	21	—	—
77344 2001 FS_{103}	15.3	X	139.89207	349.04546	314.64424	6.76181	0.1257285	0.27919468	2.3184512	21	—	—
77345 2001 FH_{104}	15.4	X	250.95513	213.61522	105.27338	2.83582	0.0886936	0.24635118	2.5201881	21	3 18.3	18.9
77346 2001 FC_{108}	15.4	X	338.30852	76.14683	161.63108	5.62861	0.0865974	0.19699245	2.9252949	21	4 1.3	19.1
77347 2001 FB_{109}	15.3	X	308.38809	116.75556	168.12958	5.67265	0.1924412	0.19792875	2.9160623	21	4 3.7	19.2
77348 2001 FG_{110}	15.3	X	293.24211	266.39685	28.45892	2.35969	0.0487667	0.24639341	2.5199001	21	4 11.9	18.5
77349 2001 FG_{114}	15.3	X	343.45857	343.59828	24.34036	8.97721	0.0976268	0.21776445	2.7361804	21	10 6.9	18.3
77350 2001 FN_{118}	15.3	X	82.45222	189.47347	194.64408	27.34855	0.0207133	0.23467865	2.6030769	21	—	—
77351 2001 FT_{119}	16.3	X	102.82905	138.54394	17.61270	1.86362	0.1381698	0.25231176	2.4803391	21	6 22.3	19.7
77352 2001 FV_{119}	14.6	X	152.68235	334.05720	24.74383	13.95081	0.1924061	0.23425279	2.6062308	21	2 8.0	18.9
77353 2001 FE_{121}	15.5	X	34.59610	219.17354	71.72476	7.54016	0.1495517	0.25790075	2.4443740	21	9 30.2	18.3
77354 2001 FM_{121}	15.2	X	165.94448	42.98965	256.03723	12.96501	0.0835771	0.23072756	2.6327103	21	—	—
77355 2001 FE_{123}	15.2	X	46.61617	1.03935	17.09619	3.93404	0.0977698	0.22670547	2.6637577	21	—	—
77356 2001 FS_{123}	15.3	X	224.78252	231.05190	202.63817	7.15921	0.1155737	0.21079425	2.7961698	21	7 12.8	19.7
77357 2001 FW_{125}	15.5	X	33.72153	166.76394	190.06437	5.81338	0.1240176	0.27088958	2.3655993	21	12 22.9	18.4
77358 2001 FT_{126}	16.1	X	274.23812	356.12731	143.92564	6.01038	0.1398458	0.27521638	2.3407401	21	12 21.5	18.6
77359 2001 FU_{128}	15.7	X	167.46899	239.45061	20.42207	10.20618	0.0859823	0.27655647	2.3331724	21	—	—
77360 2001 FX_{128}	15.1	X	114.95962	105.68911	129.61312	8.99994	0.0526670	0.21762719	2.7373308	21	10 12.4	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77361 2001 FP_{129}	15.2	X	53.51112	73.85103	35.57609	12.32535	0.0746091	0.23873865	2.5734806	21	2 1.8	18.5
77362 2001 FB_{130}	15.5	X	65.69678	304.88970	352.57136	0.92770	0.1803585	0.26522802	2.3991447	21	11 21.2	18.9
77363 2001 FO_{130}	15.9	X	113.02533	70.91333	187.40644	1.65760	0.1751055	0.26320088	2.4114476	21	11 18.7	19.7
77364 2001 FQ_{130}	14.5	X	234.36366	45.87476	207.81198	10.89361	0.1702520	0.18104037	3.0947038	21	—	—
77365 2001 FP_{131}	14.8	X	140.91830	215.64719	192.48613	13.17101	0.1471061	0.24222798	2.5487066	21	3 15.8	18.6
77366 2001 FQ_{133}	15.2	X	205.59702	269.33217	304.15492	2.60659	0.1347375	0.22363008	2.6881236	21	12 15.0	19.1
77367 2001 FC_{134}	15.5	X	212.37754	353.26116	217.13286	6.79696	0.1384084	0.22417598	2.6837579	21	12 18.1	19.5
77368 2001 FL_{134}	14.6	X	39.44854	46.93974	15.00890	22.20902	0.0265086	0.22941505	2.6427421	21	—	—
77369 2001 FT_{134}	15.2	X	239.40616	23.52450	247.77463	8.82591	0.1922914	0.23742405	2.5829712	21	1 1.9	19.6
77370 2001 FB_{135}	14.2	X	21.57488	18.03651	265.14941	15.73420	0.1402816	0.21037654	2.7998699	21	8 8.7	17.7
77371 2001 FF_{136}	15.2	X	169.95181	138.12439	140.16165	13.16107	0.0901326	0.22762271	2.6565969	21	—	—
77372 2001 FL_{136}	14.0	X	241.49876	166.54626	53.39093	26.90534	0.0403071	0.18104501	3.0946509	21	—	—
77373 2001 FN_{136}	14.4	X	211.76625	170.71886	90.76900	16.63525	0.1303195	0.18053206	3.1005101	21	—	—
77374 2001 FT_{136}	14.8	X	111.68770	168.40516	90.73870	12.89812	0.0593021	0.21696288	2.7429154	21	11 8.6	18.9
77375 2001 FV_{136}	14.0	X	142.21893	185.24350	126.06483	14.45653	0.2236642	0.17563036	3.1579336	21	—	—
77376 2001 FC_{137}	15.3	X	145.37556	200.48250	144.83041	22.54710	0.0894046	0.23790748	2.5794710	21	—	—
77377 2001 FJ_{137}	15.5	X	274.20947	104.47424	88.76840	11.39328	0.0849040	0.27924607	2.3181667	21	—	—
77378 2001 FE_{138}	16.0	X	109.84616	194.79513	92.26461	7.49649	0.1149089	0.26934525	2.3746330	21	12 18.9	19.5
77379 2001 FU_{139}	14.4	X	152.78697	221.42407	107.09978	5.50092	0.2500881	0.18256915	3.0774036	21	1 10.4	19.4
77380 2001 FP_{140}	16.2	X	60.61856	180.82976	281.40779	7.89082	0.1420776	0.29014378	2.2597508	21	1 17.6	17.9
77381 2001 FE_{141}	14.7	X	73.30471	77.64128	267.66407	10.63435	0.0948862	0.22682873	2.6627926	21	—	—
77382 2001 FZ_{143}	15.6	X	133.79313	215.49302	66.34499	7.03902	0.1601872	0.26931022	2.3748389	21	—	—
77383 2001 FG_{144}	15.1	X	146.70469	357.30339	189.26182	13.62062	0.1318977	0.21172593	2.7879609	21	9 14.1	19.5
77384 2001 FZ_{144}	14.7	X	188.27896	223.07061	105.74270	15.36746	0.1516652	0.23516179	2.5995103	21	1 27.9	18.8
77385 2001 FM_{148}	14.6	X	50.22377	231.76701	241.91848	10.52126	0.0753710	0.19287547	2.9667758	21	2 3.6	18.6
77386 2001 FV_{148}	15.6	X	353.51989	244.28454	267.17881	8.56575	0.0992120	0.23877940	2.5731878	21	—	—
77387 2001 FY_{148}	14.7	X	55.19382	187.91164	182.81555	9.28010	0.0749721	0.17816179	3.1279490	21	—	—
77388 2001 FA_{150}	14.6	X	73.82833	323.53021	298.31340	6.75315	0.1787744	0.21145416	2.7903492	21	10 5.4	18.7
77389 2001 FW_{150}	16.5	X	200.40395	75.32810	141.92206	2.77381	0.1186384	0.27161649	2.3613768	21	12 24.7	19.6
77390 2001 FA_{151}	14.9	X	139.32421	28.05920	209.45529	7.68679	0.2040800	0.21603440	2.7507689	21	11 12.0	19.5
77391 2001 FZ_{151}	15.3	X	11.22113	103.09249	61.17011	18.69755	0.1617146	0.24195628	2.5506143	21	2 1.6	18.3
77392 2001 FV_{152}	14.9	X	185.26163	298.63619	32.45111	7.88822	0.2116146	0.23903353	2.5713636	21	2 1.2	19.3
77393 2001 FK_{155}	16.9	X	228.34589	117.04704	106.29727	1.87421	0.1599181	0.27670159	2.3323566	21	—	—
77394 2001 FB_{159}	16.2	X	201.14970	60.83677	345.09152	5.25538	0.1232990	0.30401243	2.1904928	21	5 7.8	19.3
77395 2001 FG_{159}	14.6	X	123.27477	338.14421	12.01341	11.88939	0.1751228	0.23181683	2.6244566	21	—	—
77396 2001 FM_{159}	15.3	X	292.73797	119.31070	321.01119	1.11940	0.0506993	0.21987169	2.7186700	21	10 27.2	18.7
77397 2001 FQ_{160}	13.9	X	352.00077	348.80157	89.89247	23.96843	0.0303519	0.17730923	3.1379678	21	—	—
77398 2001 FT_{160}	14.7	X	289.38938	99.60921	146.83775	11.63414	0.2459365	0.23709030	2.5853947	21	1 11.4	18.9
77399 2001 FV_{160}	13.7	X	99.14110	258.24398	66.03846	24.68527	0.1821695	0.17074939	3.2178313	21	—	—
77400 2001 FO_{162}	15.9	X	232.46393	109.40697	105.98867	11.60303	0.0481995	0.27773333	2.3265768	21	—	—
77401 2001 FT_{163}	14.9	X	163.09958	255.59847	80.44177	8.51176	0.1830516	0.23688710	2.5868730	21	1 14.9	19.0
77402 2001 FK_{168}	15.6	X	122.19959	261.80891	50.42384	4.93583	0.1187281	0.27488615	2.3426144	21	—	—
77403 2001 FB_{169}	14.5	X	175.68132	153.88764	69.59973	13.04714	0.1557558	0.22023185	2.7157052	21	11 26.8	18.8
77404 2001 FE_{169}	15.2	X	224.71910	179.49094	111.99874	8.80502	0.1680863	0.28237279	2.3010223	21	1 7.8	18.7
77405 2001 FH_{169}	15.9	X	249.39998	84.32173	120.72551	7.19227	0.0677738	0.27696461	2.3308797	21	—	—
77406 2001 FZ_{169}	15.9	X	206.95617	321.36183	274.73638	8.02648	0.0692459	0.27717069	2.3297242	21	—	—
77407 2001 FN_{170}	15.6	X	203.35303	198.11289	43.72136	5.41427	0.1139967	0.27472343	2.3435393	21	—	—
77408 2001 FY_{171}	14.6	X	26.68007	264.75550	100.78765	14.70956	0.1105720	0.21902531	2.7256694	21	12 12.4	18.1
77409 2001 FD_{172}	14.5	X	26.90588	230.23380	67.38344	21.22644	0.1457616	0.25715745	2.4490819	21	10 6.3	17.8
77410 2001 FE_{172}	15.0	X	350.24507	26.73117	113.26049	14.11737	0.0462812	0.23331435	2.6132146	21	—	—
77411 2001 FX_{172}	15.0	X	272.76649	197.38323	40.57048	13.75334	0.2335168	0.23628623	2.5912567	21	—	—
77412 2001 FH_{175}	14.4	X	135.46920	253.46140	73.43282	12.26242	0.1778720	0.23026752	2.6362156	21	—	—
77413 2001 FO_{175}	14.6	X	197.12596	166.81881	71.42310	15.21702	0.0421433	0.22637062	2.6663839	21	—	—
77414 2001 FV_{175}	15.5	X	295.01553	20.07335	113.52980	9.39076	0.0705269	0.27743856	2.3282244	21	—	—
77415 2001 FS_{176}	14.3	X	206.09831	200.70509	104.17092	11.18695	0.0684817	0.18819735	3.0157387	21	1 21.1	18.8
77416 2001 FP_{178}	15.6	X	73.46760	176.94832	102.05388	12.70397	0.2276444	0.26252042	2.4156128	21	11 15.4	19.4
77417 2001 FT_{180}	14.3	X	206.72610	245.32793	45.51971	11.37933	0.0611058	0.18465932	3.0541373	21	1 6.2	19.0
77418 2001 FN_{189}	15.1	X	40.69806	307.57525	350.32653	4.46823	0.1726693	0.21490558	2.7603930	21	10 11.2	18.6
77419 2001 FC_{191}	15.3	X	29.71327	227.64766	119.75309	6.93700	0.0848668	0.22134837	2.7065652	21	11 20.7	18.9
77420 2001 FD_{195}	15.8	X	144.14984	144.85986	94.50228	7.58513	0.0871973	0.26663610	2.3906908	21	11 24.6	19.2
77421 2001 GB	15.6	X	226.56770	215.46597	289.56020	3.94413	0.1676468	0.26945601	2.3739823	21	10 13.3	18.9
77422 2001 GH	15.7	X	194.65636	194.59925	318.92984	2.02281	0.1355592	0.26419485	2.4053955	21	9 24.1	19.1
77423 2001 GM	15.8	X	160.44533	272.12264	308.96322	1.74892	0.1552862	0.26641674	2.3920029	21	11 14.9	19.5
77424 2001 GO	16.1	X	80.65314	225.30778	33.08547	3.33106	0.1487499	0.25937642	2.4350940	21	10 14.4	19.3
77425 2001 GY	15.1	X	331.61451	139.03168	175.85068	2.00053	0.0463218	0.20607124	2.8387324	21	7 6.0	18.6
77426 2001 GC_{3}	14.3	X	255.60973	190.35221	96.65729	24.32480	0.1197200	0.19143723	2.9816165	21	2 20.9	19.2
77427 2001 GX_{4}	13.3	X	121.64204	239.01824	75.02494	15.15721	0.1939188	0.17606479	3.1527367	21	—	—
77428 2001 GK_{5}	15.7	X	276.83999	97.88565	107.97445	7.46397	0.0757627	0.28264375	2.2995514	21	—	—
77429 2001 GL_{5}	14.3	X	131.51663	278.10535	45.33689	13.50632	0.1988093	0.22865856	2.6485677	21	—	—
77430 2001 GR_{5}	14.2	X	58.56375	197.43941	195.46216	15.40971	0.0587976	0.18068775	3.0987288	21	—	—
77431 2001 GY_{5}	15.0	X	155.53010	234.74309	155.39373	2.21986	0.0161438	0.19308935	2.9645845	21	3 4.1	19.2
77432 2001 GZ_{5}	15.0	X	328.69738	232.40803	56.09230	3.13925	0.0658562	0.20134928	2.8829426	21	5 24.9	18.8
77433 2001 GP_{7}	15.2	X	13.66789	46.29557	58.49937	14.54136	0.0554270	0.23324829	2.6137080	21	—	—
77434 2001 GY_{7}	16.2	X	351.89317	41.29241	105.65450	7.85747	0.0629397	0.28423555	2.2909579	21	—	—
77435 2001 GE_{8}	13.9	X	184.08505	235.64311	74.46530	11.50489	0.1529039	0.18212188	3.0824400	21	1 9.9	18.9
77436 2001 GH_{8}	16.0	X	320.99147	107.53523	90.39251	7.72822	0.0581517	0.28586955	2.2822197	21	—	—
77437 2001 GQ_{8}	16.2	X	331.17831	65.66803	112.53838	6.52116	0.0937030	0.28486259	2.2875948	21	—	—
77438 2001 GP_{10}	14.6	X	174.83819	246.28405	51.82954	4.28231	0.2471274	0.17872455	3.1213795	21	—	—
77439 2001 GS_{10}	15.2	X	140.35793	321.57238	260.52479	7.91729	0.1105100	0.21601530	2.7509310	21	10 20.1	19.6
77440 2001 GT_{10}	15.9	X	89.33496	174.46266	297.34120	5.27444	0.1540563	0.29453235	2.2372476	21	3 26.8	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77441 Jouve	14.7	X	205.77695	230.67880	82.68767	13.30454	0.1558721	0.23179506	2.6246210	21	1 26.7	19.1
77442 2001 HN_1	14.2	X	198.50324	82.48075	219.11495	10.64698	0.1559239	0.18261361	3.0769040	21	1 10.0	19.4
77443 2001 HL_2	16.3	X	299.69723	116.99127	72.95055	2.94806	0.1687221	0.28191741	2.3034995	21	—	—
77444 2001 HE_3	14.5	X	192.25556	203.82509	77.39489	2.38980	0.1518263	0.17885197	3.1198968	21	—	—
77445 2001 HP_3	15.3	X	340.41457	346.43789	204.07429	7.20437	0.1412960	0.23812503	2.5778997	21	1 13.6	18.6
77446 2001 HT_4	15.8	X	54.59491	193.53255	70.56022	4.12780	0.1676493	0.25591472	2.4570041	21	9 23.4	18.8
77447 2001 HU_4	15.0	X	209.16364	3.84270	249.92189	10.26810	0.1270952	0.22836232	2.6508577	21	—	—
77448 2001 HC_6	15.6	X	9.07215	248.92973	316.55235	3.28685	0.0163083	0.29243891	2.2479119	21	3 23.1	18.2
77449 2001 HN_6	15.7	X	81.49682	178.93715	112.65661	3.71706	0.0449043	0.21520197	2.7578579	21	11 8.7	19.5
77450 2001 HU_6	15.6	X	252.85946	48.57126	148.20124	3.56121	0.1040146	0.27549248	2.3391759	21	—	—
77451 2001 HU_7	14.1	X	170.64934	309.74589	54.84440	13.61031	0.0651064	0.18773820	3.0206538	21	3 2.2	18.8
77452 2001 HZ_8	15.7	X	160.81808	184.45247	73.65033	3.41920	0.1847628	0.26958446	2.3732281	21	12 30.4	19.6
77453 2001 HM_9	14.9	X	294.23791	74.04203	144.74772	4.03174	0.1541486	0.18557668	3.0440640	21	1 2.7	19.5
77454 2001 HR_9	14.5	X	273.24720	102.60777	183.57849	4.07714	0.1315963	0.18982381	2.9984876	21	3 2.7	19.0
77455 2001 HV_9	14.9	X	12.55090	66.62204	63.48182	14.67894	0.1166522	0.23480625	2.6021337	21	—	—
77456 2001 HQ_{10}	14.9	X	68.77756	37.29437	246.08261	6.78445	0.1396789	0.21372891	2.7705152	21	10 23.7	18.8
77457 2001 HU_{11}	14.8	X	188.05206	256.97661	10.65831	1.35858	0.1312357	0.17748921	3.1358462	21	—	—
77458 2001 HF_{12}	15.1	X	141.36606	289.50646	37.44924	4.43933	0.1052125	0.22800160	2.6536529	21	—	—
77459 2001 HB_{13}	14.8	X	172.01023	195.06249	206.26073	12.93626	0.1722600	0.24445090	2.5332320	21	4 9.9	18.8
77460 2001 HG_{13}	15.5	X	2.64610	157.54892	47.91358	2.09393	0.1050101	0.24335337	2.5408428	21	3 17.2	18.1
77461 2001 HM_{15}	15.1	X	175.09475	258.09691	80.29988	22.73072	0.2443658	0.28430992	2.2905584	21	1 28.4	19.1
77462 2001 HN_{16}	15.2	X	351.53325	210.65401	53.59092	6.13479	0.1549786	0.19828312	2.9125869	21	5 21.4	18.3
77463 2001 HS_{16}	14.9	X	147.57308	294.19777	31.46557	12.50491	0.1978352	0.22630190	2.6669237	21	—	—
77464 2001 HV_{16}	15.4	X	1.97014	253.86773	172.33733	4.66456	0.0717885	0.22625678	2.6672782	21	—	—
77465 2001 HK_{20}	15.0	X	340.87452	340.63022	185.02197	25.49528	0.1731805	0.28266738	2.2994233	21	—	—
77466 2001 HL_{21}	14.0	X	173.41363	318.74577	42.76763	11.00446	0.1233060	0.18841242	3.0134434	21	3 3.0	18.9
77467 2001 HW_{21}	15.2	X	143.28294	180.57398	47.24826	9.86421	0.0846483	0.21573286	2.7533316	21	11 1.7	19.4
77468 2001 HZ_{21}	14.6	X	210.12722	250.34288	42.85960	11.77931	0.1303035	0.18310493	3.0713975	21	1 13.9	19.7
77469 2001 HZ_{25}	15.6	X	350.94985	262.73164	66.03640	4.03379	0.0825930	0.20815437	2.8197614	21	8 25.6	18.9
77470 2001 HA_{27}	14.5	X	258.12771	233.60212	79.73025	18.37410	0.2246382	0.23788386	2.5796418	21	3 17.1	19.1
77471 2001 HP_{27}	15.5	X	310.36914	198.02611	36.98136	5.64838	0.0901789	0.23862794	2.5742765	21	2 11.6	18.9
77472 2001 HC_{28}	15.4	X	24.78942	56.75432	133.53617	1.01273	0.0792156	0.24326920	2.5414289	21	4 3.0	18.2
77473 2001 HE_{28}	14.7	X	277.44803	210.98668	81.56118	2.28086	0.1189830	0.19107360	2.9853982	21	3 18.1	18.9
77474 2001 HG_{28}	15.9	X	237.87826	357.29593	225.83519	4.24014	0.1491536	0.27595844	2.3365420	21	—	—
77475 2001 HM_{28}	14.8	X	142.02131	230.08384	48.30208	10.07138	0.1691633	0.21956791	2.7211771	21	12 31.3	19.5
77476 2001 HW_{28}	15.4	X	167.25528	121.36063	74.72115	3.37453	0.1297638	0.26316179	2.4116864	21	10 23.2	18.9
77477 2001 HF_{29}	14.2	X	148.29606	93.08459	220.28365	13.21682	0.1664020	0.17537783	3.1609643	21	—	—
77478 2001 HN_{29}	14.9	X	70.36822	5.74595	56.33729	8.71139	0.2079563	0.28108468	2.3080467	21	—	—
77479 2001 HT_{29}	14.6	X	253.18745	34.42342	235.49916	10.18741	0.0566405	0.18519773	3.0482151	21	1 26.6	19.2
77480 2001 HU_{29}	15.0	X	226.77851	145.80880	62.75558	2.81713	0.1413404	0.22387995	2.6861231	21	12 31.6	18.9
77481 2001 HE_{30}	14.8	X	250.49672	193.30705	74.66422	6.15036	0.1296081	0.23241541	2.6199486	21	1 12.3	18.9
77482 2001 HF_{30}	16.2	X	275.90524	126.72294	62.07598	2.95482	0.1688030	0.27763004	2.3271538	21	—	—
77483 2001 HB_{31}	16.7	X	228.52194	83.66029	126.39915	1.76490	0.0539004	0.27452271	2.3446816	21	—	—
77484 2001 HQ_{31}	14.3	X	287.02958	221.94403	81.27232	16.34215	0.2445132	0.24054864	2.5605550	21	3 28.9	18.5
77485 2001 HT_{31}	15.7	X	324.34694	91.66389	68.80482	7.93193	0.0427302	0.27906554	2.3191664	21	—	—
77486 2001 HA_{32}	15.6	X	147.55854	103.56410	125.22260	3.08779	0.1360642	0.26347520	2.4097735	21	11 13.8	19.2
77487 2001 HN_{33}	15.5	X	143.18082	1.19942	215.74101	8.53598	0.0890970	0.21436991	2.7649896	21	10 17.8	19.7
77488 2001 HX_{33}	15.3	X	17.08517	98.34957	53.00245	4.14925	0.1126497	0.23822433	2.5771833	21	1 26.0	18.0
77489 2001 HC_{35}	14.0	X	238.62954	116.66655	236.02758	9.92227	0.1232846	0.19267337	2.9688500	21	4 15.8	18.8
77490 2001 HF_{35}	15.2	X	224.53712	132.67852	61.87402	9.19575	0.0709648	0.26952503	2.3735769	21	12 31.0	18.3
77491 2001 HA_{36}	15.0	X	237.54061	302.03936	243.38805	11.74654	0.0998585	0.22295032	2.6935847	21	12 20.7	18.8
77492 2001 HF_{36}	15.2	X	196.23922	276.07722	306.55775	3.80297	0.1980198	0.22154330	2.7049773	21	12 10.9	19.7
77493 2001 HL_{36}	15.4	X	2.83642	320.03087	246.93027	4.12735	0.0971040	0.24212267	2.5494456	21	3 17.2	18.2
77494 2001 HM_{36}	14.1	X	239.30289	237.77172	20.13050	8.59538	0.1251950	0.18142025	3.0903823	21	—	—
77495 2001 HM_{37}	14.3	X	208.36418	358.42051	253.01273	9.56203	0.1783445	0.17678655	3.1441499	21	—	—
77496 2001 HO_{37}	14.8	X	135.73057	224.23933	32.04278	9.74030	0.0888488	0.21715720	2.7412790	21	11 26.4	19.0
77497 2001 HR_{37}	14.1	X	213.44557	241.13571	36.67763	15.05270	0.1407010	0.17978484	3.1090951	21	—	—
77498 2001 HG_{38}	15.0	X	80.91683	212.57984	87.93798	13.85010	0.0439760	0.26390946	2.4071292	21	11 28.2	18.2
77499 2001 HJ_{39}	15.1	X	307.93597	126.47439	183.46263	1.62034	0.0568680	0.20022505	2.8937240	21	5 25.4	19.0
77500 2001 HJ_{40}	15.0	X	2.06785	42.41524	169.16998	12.81790	0.1998226	0.24434092	2.5339921	21	3 14.7	17.3
77501 2001 HM_{40}	14.4	X	169.56824	231.21388	96.74085	13.08985	0.1769853	0.23059590	2.6337123	21	1 11.3	18.5
77502 2001 HJ_{44}	15.9	X	52.71980	210.05626	65.38947	4.88018	0.0968089	0.25783366	2.4447979	21	9 25.6	18.8
77503 2001 HP_{45}	15.1	X	132.02517	127.03408	93.54288	10.29625	0.0855338	0.21458377	2.7631522	21	10 16.4	19.4
77504 2001 HX_{45}	15.4	X	304.52205	145.58744	60.25607	9.94389	0.0737591	0.23622138	2.5917310	21	—	—
77505 2001 HA_{46}	15.4	X	341.33044	345.95531	157.27173	9.84558	0.0724008	0.23333332	2.6130730	21	—	—
77506 2001 HY_{46}	15.0	X	142.84497	353.31843	201.70884	7.61343	0.0728804	0.21121354	2.7924680	21	9 18.4	19.2
77507 2001 HT_{47}	14.9	X	226.57196	5.54873	257.41512	8.60242	0.1368782	0.23095396	2.6309895	21	—	—
77508 2001 HV_{47}	15.0	X	198.26321	220.42950	35.98258	15.08544	0.0434998	0.23017489	2.6369228	21	—	—
77509 2001 HW_{47}	14.4	X	200.02328	293.78022	44.17659	14.10551	0.2029019	0.24039293	2.5616606	21	2 24.9	19.0
77510 2001 HQ_{48}	14.7	X	215.43866	184.85994	75.42782	15.85132	0.1011733	0.23117490	2.6293128	21	—	—
77511 2001 HR_{48}	13.7	X	94.82312	206.35221	127.51680	20.45673	0.2127957	0.17388077	3.1790816	21	—	—
77512 2001 HY_{48}	14.3	X	87.15761	8.02945	254.32389	14.06509	0.1605896	0.21253894	2.7808467	21	10 18.2	18.7
77513 2001 HD_{49}	15.6	X	184.22021	169.91552	328.65988	7.74235	0.1881354	0.26108850	2.4244369	21	8 23.7	19.6
77514 2001 HT_{49}	14.5	X	124.86568	330.60196	355.03827	5.96464	0.1562847	0.22380429	2.6867285	21	—	—
77515 2001 HL_{50}	14.5	X	210.93896	98.92774	104.92549	12.43918	0.1963516	0.22329981	2.6907735	21	12 4.5	18.7
77516 2001 HR_{50}	16.1	X	357.33042	307.72082	212.21940	1.27740	0.0405155	0.24048403	2.5610136	21	1 12.2	19.3
77517 2001 HS_{50}	14.7	X	162.17850	22.79102	249.30460	10.26914	0.2212880	0.22499920	2.6772077	21	—	—
77518 2001 HA_{52}	15.1	X	55.04136	252.81890	63.63513	6.50514	0.0262611	0.21541603	2.7560306	21	11 4.3	18.7
77519 2001 HF_{52}	15.4	X	73.16507	29.12184	243.54573	2.08308	0.0668786	0.21277586	2.7787821	21	10 5.9	19.1
77520 2001 HU_{52}	14.8	X	97.07001	172.94219	143.61494	2.65901	0.2279899	0.21801521	2.7340819	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77521 2001 HR_{53}	15.6	X	238.87125	75.42212	129.71659	5.94576	0.0773067	0.27374686	2.3491097	21	—	—
77522 2001 HA_{54}	14.4	X	304.55911	38.65989	174.76697	22.92564	0.0650171	0.18586029	3.0409665	21	1 17.8	19.1
77523 2001 HB_{55}	14.3	X	260.69947	221.96220	80.34334	11.48593	0.0938784	0.19136030	2.9824156	21	3 19.4	18.9
77524 2001 HX_{55}	13.8	X	158.18150	275.28079	70.60715	22.09518	0.1486337	0.18177660	3.0863422	21	1 30.8	19.0
77525 2001 HK_{56}	16.6	X	300.25837	319.76916	177.85073	2.03842	0.1494806	0.27632483	2.3344762	21	—	—
77526 2001 HN_{57}	15.4	X	78.07743	342.63753	124.63697	15.68549	0.1176131	0.24224812	2.5485653	21	3 13.7	18.6
77527 2001 HO_{57}	14.9	X	259.07630	208.03965	119.45194	14.78798	0.1937214	0.24304275	2.5430073	21	4 2.9	19.1
77528 2001 HP_{58}	14.8	X	76.68313	338.33771	325.87290	9.09327	0.2053947	0.21597486	2.7512745	21	12 5.3	19.2
77529 2001 HV_{60}	14.9	X	196.97055	227.40546	105.73913	16.19574	0.1415766	0.23407963	2.6075159	21	2 11.4	19.2
77530 2001 HW_{60}	15.3	X	9.29261	53.59063	109.90772	16.48600	0.0407207	0.23731100	2.5837915	21	2 5.3	18.6
77531 2001 HX_{60}	13.8	X	164.40499	174.11956	98.73592	19.12022	0.1465141	0.17316293	3.1878614	21	—	—
77532 2001 HA_{61}	15.0	X	6.72265	75.17187	105.99273	15.90295	0.0477639	0.23915192	2.5705150	21	2 27.5	18.4
77533 2001 HE_{61}	15.1	X	14.45965	134.89221	41.77092	11.40147	0.0781052	0.19156995	2.9802392	21	3 13.3	19.0
77534 2001 HL_{61}	15.3	X	157.89611	262.76743	9.81753	3.61828	0.0204428	0.22602402	2.6691090	21	—	—
77535 2001 HT_{62}	16.2	X	241.44991	73.71601	60.29736	8.10274	0.0700416	0.26582169	2.3955713	21	11 3.3	19.1
77536 2001 HX_{62}	16.5	X	277.31518	302.05920	223.77535	4.24253	0.1268223	0.27562705	2.3384145	21	—	—
77537 2001 HJ_{63}	15.8	X	251.27374	171.19081	14.26701	7.03963	0.0709829	0.27371678	2.3492817	21	—	—
77538 2001 HZ_{63}	15.3	X	40.31836	199.25919	215.13527	14.30594	0.0596897	0.22738451	2.6584518	21	—	—
77539 2001 HE_{64}	15.3	X	198.84711	15.28697	224.01131	13.73025	0.0527165	0.22433045	2.6825258	21	—	—
77540 2001 HF_{64}	16.3	X	150.47083	330.48397	246.53542	1.72130	0.1442293	0.26343550	2.4100156	21	10 31.6	20.1
77541 2001 HS_{64}	14.3	X	69.39343	301.51650	14.35373	8.63164	0.1449032	0.21636908	2.7479316	21	12 4.7	18.4
77542 2001 HV_{65}	15.6	X	274.66630	168.65739	48.52976	7.28927	0.0491080	0.27964579	2.3159572	21	—	—
77543 2001 HU_{66}	15.7	X	306.60470	63.03548	114.02471	7.57670	0.0540287	0.28249602	2.3003530	21	—	—
77544 2001 HB_{67}	16.2	X	103.60007	317.94928	255.71022	1.63592	0.1606158	0.25793221	2.4441752	21	9 11.1	19.8
77545 2001 JR_{1}	14.7	X	171.65376	274.66979	22.37174	4.29037	0.1350063	0.17708927	3.1405657	21	—	—
77546 2001 JS_{1}	15.5	X	5.23935	23.87689	161.59750	4.27104	0.1029482	0.23985350	2.5654999	21	2 21.1	18.3
77547 2001 JL_{2}	15.3	X	326.97612	72.01198	135.50915	7.26813	0.1061286	0.23649154	2.5897568	21	1 24.1	18.7
77548 2001 JQ_{3}	15.4	X	249.10533	56.84893	114.53667	4.53355	0.0540292	0.22209516	2.7004947	21	12 24.8	18.9
77549 2001 JZ_{4}	15.6	X	161.59721	89.84385	141.49684	6.73662	0.0953525	0.26780794	2.3837118	21	12 2.9	19.1
77550 2001 JW_{5}	15.6	X	351.08324	336.96596	187.16674	4.90906	0.1360556	0.23631612	2.5910382	21	—	—
77551 2001 JK_{6}	15.7	X	349.73564	101.39195	71.80411	6.23494	0.1662496	0.23841891	2.5757809	21	1 2.5	18.7
77552 2001 JY_{6}	16.1	X	186.43504	71.73968	131.13465	3.12938	0.1440824	0.26835284	2.3804839	21	11 19.4	19.7
77553 2001 JB_{7}	15.2	X	109.28277	83.12229	173.65840	6.53618	0.1305083	0.21449569	2.7639085	21	11 5.8	19.4
77554 2001 JD_{7}	16.4	X	209.35679	51.09147	139.50746	3.73397	0.0997033	0.26959775	2.3731501	21	12 3.3	19.5
77555 2001 JO_{7}	15.5	X	187.04825	114.13194	90.56192	3.63239	0.0787166	0.21956760	2.7211796	21	11 19.9	19.6
77556 2001 JQ_{7}	15.1	X	91.17709	171.73573	121.00629	4.62172	0.0369652	0.21704936	2.7421868	21	11 21.1	19.0
77557 2001 JR_{8}	15.2	X	111.39193	5.81343	351.43560	6.78341	0.1341353	0.27791469	2.3255645	21	—	—
77558 2001 JY_{9}	14.6	X	170.97782	61.11530	206.85996	6.71208	0.0239417	0.17400897	3.1775199	21	—	—
77559 2001 KA_{1}	14.4	X	84.89057	252.63481	62.96679	31.67999	0.1789967	0.21497123	2.7598310	21	12 20.2	19.0
77560 Furusato	16.3	X	248.62978	26.67959	188.02595	3.18569	0.1768985	0.27610105	2.3357374	21	—	—
77561 2001 KS_{1}	14.5	X	52.04045	231.02357	108.80760	10.91190	0.2324396	0.21651152	2.7467262	21	12 27.6	18.5
77562 2001 KO_{3}	15.2	X	251.53062	140.01998	156.05036	2.23871	0.0678372	0.18858758	3.0115772	21	2 26.7	19.5
77563 2001 KP_{3}	15.9	X	193.01128	31.79379	204.35020	3.76446	0.1063650	0.27131870	2.3631044	21	—	—
77564 2001 KB_{4}	14.3	X	157.63081	279.58319	62.70326	16.68584	0.2296736	0.17861883	3.1226111	21	2 1.9	19.7
77565 2001 KG_{4}	15.4	X	232.87237	298.20038	232.81312	7.80171	0.1322606	0.22044288	2.7139718	21	11 22.8	19.0
77566 2001 KO_{4}	15.8	X	155.17444	325.88773	235.48320	5.46189	0.0870388	0.26168729	2.4207371	21	10 15.4	19.3
77567 2001 KA_{6}	15.2	X	35.03471	227.81601	48.48383	1.62740	0.1034301	0.20512935	2.8474156	21	8 24.9	18.6
77568 2001 KL_{6}	14.5	X	187.60348	253.39450	66.45997	17.23587	0.1906222	0.17986170	3.1082093	21	1 28.3	19.9
77569 2001 KN_{6}	14.6	X	258.78243	261.16352	107.81215	3.01083	0.0918167	0.19852340	2.9102363	21	6 2.6	18.8
77570 2001 KB_{9}	15.4	X	147.13666	341.40012	206.88796	3.99696	0.1327537	0.21018841	2.8015403	21	9 16.9	19.8
77571 2001 KP_{9}	14.1	X	174.68121	110.94195	213.24198	8.46767	0.0634355	0.18128332	3.0919383	21	1 10.1	18.8
77572 2001 KL_{10}	14.2	X	315.33137	22.10830	218.49301	10.80687	0.0388199	0.18950391	3.0018611	21	3 6.6	18.6
77573 2001 KN_{10}	15.4	X	275.70679	123.76594	92.46676	6.27373	0.1228078	0.27961010	2.3161543	21	—	—
77574 2001 KD_{11}	15.8	X	237.44986	60.09019	163.40253	2.36637	0.1579473	0.27500971	2.3419127	21	—	—
77575 2001 KF_{11}	15.7	X	264.85185	77.16356	119.04359	4.63672	0.1018145	0.27524042	2.3406038	21	—	—
77576 2001 KS_{11}	13.8	X	278.71838	86.48516	79.63257	16.71467	0.0892913	0.17574612	3.1565467	21	—	—
77577 2001 KV_{11}	15.1	X	4.14012	50.51377	128.38254	3.72250	0.1269226	0.23827770	2.5767984	21	2 8.7	17.8
77578 2001 KC_{12}	15.4	X	316.25547	182.22120	96.33626	4.78489	0.0681124	0.24292665	2.5438175	21	4 21.4	18.5
77579 2001 KL_{12}	14.9	X	60.56065	75.04117	95.84236	9.10604	0.0513225	0.24372963	2.5382272	21	5 3.9	18.1
77580 2001 KO_{12}	14.4	X	245.01626	355.77192	246.05233	25.25109	0.1715311	0.23017840	2.6368960	21	—	—
77581 2001 KE_{14}	15.5	X	278.82310	204.29818	87.09594	7.11393	0.1100189	0.29007618	2.2601018	21	3 8.8	18.6
77582 2001 KH_{14}	15.9	X	131.77051	160.94132	97.53082	5.58730	0.0406551	0.26673033	2.3901277	21	12 4.1	19.0
77583 2001 KL_{14}	14.4	X	215.43987	266.02774	74.63297	11.71749	0.0935158	0.18998595	2.9967814	21	3 19.1	19.2
77584 2001 KP_{14}	15.0	X	126.62558	160.68466	71.97000	10.07618	0.0703244	0.21339568	2.7733987	21	10 23.2	19.2
77585 2001 KQ_{14}	15.9	X	14.25198	41.52282	129.19897	4.03829	0.1014370	0.28869177	2.2673215	21	2 4.0	18.1
77586 2001 KT_{14}	14.2	X	74.68653	44.02139	70.14104	10.13570	0.0545535	0.19085344	2.9876936	21	3 18.6	18.4
77587 2001 KD_{16}	15.9	X	42.05065	46.60625	130.91320	3.86355	0.1142131	0.29340594	2.2429699	21	4 10.1	17.8
77588 2001 KJ_{16}	14.2	X	222.60794	215.52274	91.61814	10.83168	0.0940175	0.18484881	3.0520497	21	2 11.7	19.0
77589 2001 KC_{17}	14.7	X	56.98764	238.34258	100.69285	10.37308	0.1634414	0.21393743	2.7687147	21	12 22.8	18.5
77590 2001 KM_{17}	15.4	X	147.58331	279.79950	313.77082	5.40463	0.0881764	0.26500185	2.4005096	21	11 17.8	19.0
77591 2001 KO_{18}	14.8	X	149.88239	200.93864	202.22419	10.33187	0.0216718	0.18879391	3.0093825	21	3 12.2	19.2
77592 2001 KS_{19}	15.5	X	110.40463	269.92530	83.78310	7.08620	0.1414323	0.27449339	2.3448485	21	—	—
77593 2001 KJ_{20}	15.3	X	184.18220	299.59435	52.90001	3.95312	0.2413982	0.23544636	2.5974153	21	2 26.1	19.7
77594 2001 KQ_{21}	14.4	X	160.01083	312.70391	37.41541	1.92179	0.1595598	0.18207281	3.0829938	21	2 3.9	19.4
77595 2001 KU_{21}	14.2	X	107.71676	257.49106	57.89468	10.02179	0.0625168	0.17138588	3.2098595	21	12 29.9	19.1
77596 2001 KX_{21}	15.8	X	269.01160	355.66676	310.14185	1.55815	0.2022007	0.23912393	2.5707155	21	3 9.1	19.7
77597 2001 KO_{22}	15.0	X	188.39452	283.64112	243.16422	12.30120	0.1000843	0.21305274	2.7763740	21	9 28.2	19.5
77598 2001 KE_{23}	14.3	X	211.87807	122.03979	243.93999	9.50865	0.1407988	0.19101848	2.9859725	21	4 4.2	19.3
77599 2001 KT_{23}	14.0	X	162.69348	267.16788	50.14808	17.24892	0.0567848	0.17867279	3.1219823	21	—	—
77600 2001 KY_{23}	14.2	X	247.64201	2.34289	249.34352	11.73974	0.0770545	0.18185007	3.0855107	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77601 2001 KF_{26}	15.2	X	5.39024	323.36856	264.84154	9.26397	0.0829618	0.24398215	2.5364755	21	4 20.6	18.2
77602 2001 KZ_{26}	14.8	X	263.73065	208.21417	51.48300	14.41848	0.1456934	0.23339349	2.6126239	21	1 15.2	19.1
77603 2001 KS_{28}	14.9	X	266.44686	356.77264	231.75568	13.78804	0.1194537	0.23333467	2.6130629	21	—	—
77604 2001 KK_{29}	14.6	X	138.05620	131.42887	224.77795	9.41019	0.0993813	0.18092043	3.0960715	21	1 11.9	19.3
77605 2001 KK_{30}	16.0	X	207.68239	100.40562	66.68346	3.51055	0.1211928	0.26496538	2.4007299	21	10 28.8	19.4
77606 2001 KQ_{30}	14.7	X	137.96672	36.12997	237.55878	4.09778	0.1020475	0.17030862	3.2233810	21	12 13.9	19.6
77607 2001 KO_{31}	15.2	X	144.57659	35.90736	208.36923	8.69862	0.0938107	0.21668556	2.7452553	21	11 23.3	19.4
77608 2001 KZ_{33}	14.6	X	170.11337	137.46161	210.58764	12.05796	0.1110206	0.18315146	3.0708773	21	2 3.1	19.6
77609 2001 KM_{34}	14.9	X	248.48990	201.33397	118.98447	3.86311	0.0872485	0.19110810	2.9850388	21	3 24.3	19.4
77610 2001 KY_{34}	14.7	X	275.66046	166.79624	98.49133	8.04417	0.2386657	0.23425887	2.6061857	21	1 24.2	19.0
77611 2001 KZ_{34}	15.7	X	244.55389	46.90745	84.80480	6.93798	0.0684038	0.26430085	2.4047523	21	11 5.3	18.7
77612 2001 KM_{36}	12.8	X	143.23414	137.68036	271.41131	16.10140	0.2122254	0.18078194	3.0976524	21	3 25.0	18.2
77613 2001 KY_{36}	14.4	X	66.99337	337.28423	82.54528	16.45448	0.1224576	0.22883393	2.6472143	21	—	—
77614 2001 KM_{37}	14.9	X	286.72164	236.30578	88.10462	16.32476	0.1753057	0.24475976	2.5311004	21	5 1.5	18.6
77615 2001 KN_{37}	14.7	X	245.83238	124.50762	79.32900	12.60496	0.1344141	0.22635611	2.6664979	21	—	—
77616 2001 KP_{37}	14.3	X	290.53480	103.66398	67.44141	13.79173	0.1176156	0.17954735	3.1118361	21	—	—
77617 2001 KX_{37}	15.2	X	188.75085	204.52701	124.06139	12.63737	0.0829065	0.23222359	2.6213911	21	1 23.9	19.1
77618 2001 KP_{39}	14.7	X	258.34719	141.81341	108.60658	17.56501	0.0581402	0.23127933	2.6285213	21	1 3.4	18.5
77619 2001 KT_{40}	15.3	X	119.55120	118.42772	131.82272	11.08137	0.1241381	0.21395605	2.7685540	21	11 9.8	19.8
77620 2001 KZ_{40}	14.8	X	180.17243	211.72018	109.01786	16.05448	0.1367396	0.22975479	2.6401362	21	1 9.7	18.8
77621 Koten	14.4	X	125.21354	210.80832	159.14928	9.80479	0.1534276	0.18017293	3.1046288	21	1 21.7	19.0
77622 2001 KA_{43}	14.7	X	208.33388	196.48231	102.60074	10.96482	0.0778002	0.18217005	3.0818965	21	1 17.5	19.3
77623 2001 KP_{43}	15.7	X	213.29248	29.52886	141.79864	6.60667	0.1528736	0.26681995	2.3895925	21	11 7.8	19.2
77624 2001 KQ_{43}	14.4	X	217.41587	245.02876	110.88676	12.25424	0.1975249	0.18957928	3.0010655	21	4 4.4	19.6
77625 2001 KS_{43}	14.6	X	282.54877	193.91350	105.88851	11.57285	0.0953534	0.19272968	2.9682717	21	4 9.7	19.0
77626 2001 KV_{45}	15.7	X	310.69349	151.43744	109.49603	13.76974	0.2088790	0.23908090	2.5710240	21	3 1.8	19.3
77627 2001 KG_{46}	14.8	X	258.38503	120.59348	197.78433	8.25401	0.1173007	0.23934133	2.5691586	21	3 21.6	18.6
77628 2001 KV_{46}	14.8	X	0.87230	90.40215	125.08679	13.19650	0.1342654	0.24068608	2.5595802	21	3 31.8	17.7
77629 2001 KE_{47}	14.5	X	215.54936	184.34516	138.41876	10.39341	0.0643551	0.18528258	3.0472844	21	2 21.8	19.1
77630 2001 KV_{47}	14.4	X	283.88502	237.41293	50.17718	11.16336	0.0854647	0.19037623	2.9926843	21	3 27.8	18.8
77631 2001 KK_{49}	15.6	X	107.91896	154.33413	49.38775	1.53637	0.1489074	0.25491883	2.4633991	21	9 2.9	19.3
77632 2001 KR_{49}	14.5	X	187.35589	130.94762	73.27172	15.47235	0.1352275	0.21653991	2.7464861	21	11 17.2	18.8
77633 2001 KP_{52}	15.7	X	112.08575	234.22415	330.96411	1.82811	0.1438167	0.25802462	2.4435915	21	9 8.0	19.2
77634 2001 KQ_{54}	15.2	X	158.90335	252.20390	357.74203	3.11908	0.1255678	0.22050795	2.7134378	21	12 13.2	19.4
77635 2001 KO_{55}	15.3	X	350.79219	337.94949	187.52600	11.01321	0.1308484	0.23588914	2.5941640	21	—	—
77636 2001 KE_{56}	14.2	X	353.48278	126.47132	105.44622	16.32013	0.0647910	0.19221512	2.9735667	21	4 25.7	18.4
77637 2001 KH_{56}	14.4	X	58.10684	204.35628	99.77865	24.96684	0.1928993	0.25775112	2.4453198	21	11 28.8	18.2
77638 2001 KN_{56}	14.9	X	162.88480	163.97087	77.63939	10.45161	0.0545135	0.22132013	2.7067955	21	12 9.8	18.9
77639 2001 KY_{57}	14.0	X	90.45437	318.85811	84.03140	13.06289	0.0516176	0.18245532	3.0786834	21	1 6.2	18.2
77640 2001 KA_{58}	15.8	X	155.44100	91.57870	129.55943	6.33603	0.0651275	0.26467470	2.4024873	21	11 14.6	19.2
77641 2001 KC_{58}	15.8	X	353.61473	13.60139	176.88006	6.81403	0.1422372	0.23918619	2.5702694	21	2 2.8	18.8
77642 2001 KM_{58}	15.1	X	226.19353	206.64920	100.92194	15.70462	0.0926495	0.23348026	2.6119765	21	2 8.5	19.2
77643 2001 KH_{60}	14.6	X	114.67107	241.66643	98.09951	10.88014	0.2287939	0.22539921	2.6740393	21	—	—
77644 2001 KH_{65}	14.6	X	176.85085	224.16279	118.81406	16.52235	0.0867198	0.18530660	3.0470211	21	2 6.8	19.2
77645 2001 KX_{66}	14.8	X	328.56654	81.91931	172.75386	22.81600	0.2450367	0.28639990	2.2794014	21	2 25.4	17.4
77646 2001 KZ_{67}	14.6	X	207.42494	180.32526	94.31714	15.84436	0.1707832	0.22392147	2.6857911	21	—	—
77647 2001 KT_{69}	15.0	X	187.45603	192.52882	122.90477	15.37883	0.1839401	0.22941189	2.6427663	21	1 12.7	19.4
77648 2001 KV_{69}	14.9	X	22.48217	326.94013	63.71475	26.26607	0.0850051	0.27025852	2.3692803	21	—	—
77649 2001 KZ_{69}	14.7	X	237.84814	207.90254	117.18206	15.16571	0.2648691	0.18658660	3.0330699	21	3 12.1	20.2
77650 2001 KB_{71}	16.6	X	264.98897	72.13846	89.38337	3.22527	0.1688243	0.27382601	2.3486569	21	12 31.4	19.0
77651 2001 KX_{71}	14.5	X	235.59787	24.22412	271.10476	12.56341	0.1945845	0.23515926	2.5995290	21	1 25.1	19.0
77652 2001 KF_{72}	15.1	X	149.21168	186.19101	98.19916	2.59677	0.1669642	0.17187548	3.2037609	21	—	—
77653 2001 KH_{72}	14.0	X	89.31477	93.03700	252.98343	9.78906	0.1400044	0.17072601	3.2181251	21	—	—
77654 2001 KX_{72}	16.5	X	293.38011	70.21627	80.22191	3.00146	0.1590944	0.27551372	2.3390557	21	—	—
77655 2001 KO_{73}	15.2	X	83.77026	170.16713	80.52893	7.38608	0.1920611	0.25394073	2.4697205	21	10 15.6	18.9
77656 2001 LT_{3}	14.0	X	84.98979	193.88641	103.75942	9.57455	0.2109840	0.21068501	2.7971363	21	12 7.1	18.5
77657 2001 LE_{5}	14.9	X	320.01605	158.86348	81.45155	13.60534	0.1391461	0.23518391	2.5993473	21	2 28.5	18.5
77658 2001 LH_{5}	15.3	X	264.99298	157.16606	83.91839	7.53276	0.1987839	0.27736917	2.3286127	21	—	—
77659 2001 LY_{5}	14.3	X	119.28262	329.10186	35.23155	13.87281	0.2067995	0.18354952	3.0664358	21	1 18.9	19.0
77660 2001 LF_{8}	14.4	X	176.07618	230.37951	122.56766	10.72673	0.1162133	0.18471237	3.0535525	21	2 19.9	19.2
77661 2001 LN_{8}	13.8	X	10.90985	240.52407	278.69083	13.17698	0.0780217	0.17589983	3.1547075	21	2 6.7	18.0
77662 2001 LU_{12}	14.7	X	152.00699	326.44578	286.79222	10.98338	0.1477732	0.21262708	2.7800781	21	12 9.5	19.3
77663 2001 LR_{14}	14.5	X	266.32351	61.41605	103.66633	16.39171	0.0737610	0.22122566	2.7075660	21	—	—
77664 2001 LT_{15}	14.8	X	298.67205	182.50951	109.88033	10.86904	0.0544079	0.19332711	2.9621534	21	4 25.7	19.1
77665 2001 LW_{15}	15.0	X	236.82296	174.34554	115.53840	12.01611	0.0507705	0.18412742	3.0600162	21	2 6.5	19.5
77666 2001 LK_{17}	14.2	X	215.23519	107.99728	246.71913	8.33463	0.1073072	0.18336869	3.0684515	21	3 26.3	19.2
77667 2001 LZ_{17}	14.4	X	221.26797	227.06602	96.21836	12.20229	0.1188579	0.18127641	3.0920168	21	3 2.8	19.4
77668 2001 LL_{19}	15.8	X	357.98316	136.23993	180.64258	5.27555	0.2236805	0.29615081	2.2290891	21	9 5.1	16.7
77669 2001 MY_{9}	15.0	X	209.57098	337.07874	74.81010	8.69420	0.0746909	0.19230720	2.9726175	21	6 2.9	19.5
77670 2001 MH_{11}	14.7	X	295.29170	230.95690	312.36094	21.88496	0.2853669	0.27501948	2.3418572	21	—	—
77671 2001 MD_{13}	14.3	X	328.39416	296.98574	284.58504	12.21556	0.0956555	0.17973858	3.1096285	21	2 20.5	18.7
77672 2001 MV_{17}	13.3	X	60.56239	180.89224	257.10785	19.04361	0.1185217	0.17101777	3.2144639	21	1 13.7	17.6
77673 2001 MA_{20}	15.1	X	108.73411	346.37341	297.93408	8.68349	0.2882834	0.21216851	2.7840825	21	12 14.8	20.1
77674 2001 ML_{20}	14.8	X	172.24448	126.81613	85.89724	12.94136	0.1222206	0.21177630	2.7875189	21	11 13.9	19.3
77675 2001 MS_{21}	15.5	X	279.79742	104.06026	92.98837	14.60106	0.1066779	0.22348417	2.6892935	21	—	—
77676 2001 MD_{22}	15.0	X	202.67758	34.04950	337.57031	9.21953	0.0701091	0.18510384	3.0492458	21	4 3.5	19.8
77677 2001 MA_{25}	15.3	X	136.29113	331.68233	233.07569	3.18381	0.2906715	0.25658475	2.4527248	21	10 5.8	19.7
77678 2001 MH_{27}	14.0	X	208.18582	34.73804	326.80759	5.68175	0.1377143	0.18075161	3.0979989	21	3 28.5	19.0
77679 2001 MK_{27}	13.2	X	161.09850	82.64566	323.55050	10.17709	0.0472607	0.18061926	3.0995122	21	3 29.8	17.9
77680 2001 MJ_{29}	14.2	X	202.23091	26.00405	307.81130	9.68719	0.0378775	0.17958951	3.1113490	21	2 18.7	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77681 2001 MO_{29}	16.0	X	1.86015	109.86725	133.23353	7.60721	0.2372040	0.24165436	2.5527383	21	5 4.5	18.0
77682 2001 MY_{29}	12.9	X	117.57978	133.41779	279.25952	16.10241	0.1774905	0.17529144	3.1620028	21	3 1.3	17.9
77683 2001 NN	15.2	X	197.27143	299.56210	283.65450	14.56920	0.1377543	0.22126022	2.7072840	21	12 18.2	19.4
77684 2001 NO	15.1	X	238.98565	6.82345	286.94237	11.64559	0.0790064	0.23465490	2.6032525	21	1 31.3	19.0
77685 2001 NA_{3}	14.2	X	156.10129	83.83689	296.94787	9.02198	0.0773541	0.17980923	3.1088140	21	2 25.6	18.9
77686 2001 NA_{4}	13.9	X	21.33162	168.56811	281.22684	13.74311	0.0243089	0.17130336	3.2108902	21	—	—
77687 2001 NT_{6}	15.0	X	311.56077	184.75931	109.02149	12.42142	0.0737282	0.19046476	2.9917569	21	5 11.8	19.2
77688 2001 NF_{8}	14.8	X	124.87235	322.09703	120.53959	11.85717	0.0764476	0.18437816	3.0572414	21	4 15.0	19.4
77689 2001 NZ_{10}	14.4	X	236.91930	102.46405	332.85848	7.41111	0.0851159	0.19746136	2.9206620	21	8 3.2	18.7
77690 2001 NY_{11}	14.4	X	237.55835	52.06061	249.44508	8.31878	0.0469242	0.18088411	3.0964859	21	2 16.9	19.1
77691 2001 NJ_{12}	14.8	X	35.75672	275.18117	304.34287	10.19892	0.0318271	0.19186787	2.9771535	21	5 31.1	18.9
77692 2001 NQ_{14}	15.0	X	235.25705	77.72043	65.55000	8.23000	0.1708146	0.20981285	2.8048824	21	10 18.7	19.2
77693 2001 NM_{17}	14.3	X	140.23874	50.08032	322.00589	25.92388	0.0560944	0.17621071	3.1509960	21	2 2.6	18.9
77694 2001 NT_{18}	13.5	X	158.84252	126.10759	287.01964	14.22317	0.1671555	0.18106610	3.0944107	21	4 10.7	18.8
77695 2001 NS_{19}	14.1	X	158.80019	74.49919	267.37058	10.08266	0.0912600	0.17362188	3.1822411	21	1 17.7	18.9
77696 Patriciann	15.1	X	154.07433	213.42481	146.84259	6.61351	0.1421628	0.17643530	3.1483214	21	2 8.6	19.9
77697 2001 OC_{3}	15.7	X	236.69470	267.48416	314.43143	5.02504	0.2242965	0.27152432	2.3619112	21	—	—
77698 2001 OL_{3}	14.7	X	117.18193	179.79431	327.70766	9.07210	0.0508843	0.19292020	2.9663171	21	6 17.9	19.0
77699 2001 OV_{3}	14.7	X	56.13012	118.44893	4.17333	9.42233	0.0638266	0.18120216	3.0928614	21	3 3.1	18.8
77700 2001 OP_{4}	14.7	X	10.64269	131.01630	62.33228	9.70526	0.0648771	0.22823431	2.6518488	21	3 23.4	18.0
77701 2001 OE_{8}	14.9	X	170.64077	0.11258	258.42768	7.23384	0.1749481	0.21507076	2.7589795	21	12 30.9	19.5
77702 2001 OL_{23}	14.6	X	224.80897	173.91791	75.52876	14.08782	0.0355718	0.17171470	3.2057604	21	—	—
77703 2001 OP_{24}	13.7	X	100.49525	102.47204	313.22920	2.89881	0.1868412	0.17481001	3.1678056	21	2 22.9	18.2
77704 2001 OC_{27}	14.4	X	257.45020	341.30977	235.38611	17.90019	0.0761407	0.17203445	3.2017870	21	—	—
77705 2001 OM_{27}	14.3	X	62.55806	17.12139	65.62225	10.11433	0.0721818	0.17454352	3.1710291	21	1 23.7	18.6
77706 2001 OC_{29}	14.0	X	311.05577	239.63481	348.19271	17.81932	0.0439033	0.18065030	3.0991571	21	2 21.6	18.4
77707 2001 ON_{30}	14.6	X	196.81544	318.50541	60.49161	10.35290	0.1027038	0.18368624	3.0649140	21	4 13.5	19.5
77708 2001 OS_{31}	14.1	X	203.24567	245.76371	104.84426	10.79434	0.1080888	0.18091951	3.0960819	21	3 18.2	19.1
77709 2001 OH_{41}	14.4	X	234.68385	24.14589	359.36359	9.87162	0.0905160	0.19073338	2.9889472	21	5 21.7	19.1
77710 2001 ON_{41}	15.0	X	7.25744	158.83199	352.14128	14.58507	0.0748462	0.22578562	2.6709875	21	1 19.6	18.5
77711 2001 OU_{43}	14.1	X	120.70070	285.43119	340.95056	26.18535	0.1330784	0.20477821	2.8506696	21	11 15.7	19.2
77712 2001 OF_{45}	14.6	X	278.98506	333.09144	277.17993	13.51576	0.1294300	0.22903634	2.6456545	21	1 17.5	18.5
77713 2001 OF_{47}	14.6	X	338.63315	250.20559	328.89170	13.95918	0.0990218	0.23169699	2.6253615	21	2 25.7	17.7
77714 2001 OY_{47}	14.0	X	305.12949	15.69049	312.01584	9.20784	0.0962033	0.19170334	2.9788566	21	6 8.0	18.0
77715 2001 OM_{48}	13.4	X	82.64588	191.54582	277.32891	17.66307	0.1124688	0.17824229	3.1270072	21	3 16.6	18.1
77716 2001 OF_{50}	13.7	X	79.48640	301.88650	146.11922	27.31065	0.1892914	0.17598416	3.1536996	21	3 10.2	17.9
77717 2001 OX_{50}	14.3	X	240.60694	278.35539	87.18078	11.18132	0.1170842	0.18870918	3.0102832	21	5 9.5	19.0
77718 2001 OB_{51}	14.9	X	243.93781	137.12467	104.85990	14.24252	0.2017414	0.22531818	2.6746804	21	—	—
77719 2001 OQ_{51}	14.5	X	227.96616	256.78116	79.47836	10.60962	0.1077683	0.18338397	3.0682810	21	3 25.7	19.4
77720 2001 OS_{51}	13.8	X	41.30114	329.74981	102.97906	20.48986	0.1262055	0.17008790	3.2261689	21	—	—
77721 2001 OB_{52}	14.4	X	118.76803	356.20976	92.72639	10.05303	0.0876396	0.18166918	3.0875587	21	4 16.8	19.0
77722 2001 OF_{54}	13.4	X	137.19789	11.01982	62.02091	16.39042	0.0423492	0.17904298	3.1176775	21	4 15.3	18.1
77723 2001 OF_{55}	14.7	X	140.40113	200.64090	7.04494	15.17581	0.0803784	0.20317991	2.8655998	21	10 2.2	19.1
77724 2001 OE_{57}	13.6	X	88.87153	100.62266	320.76252	15.53724	0.1821047	0.17244353	3.1967213	21	2 14.5	17.9
77725 2001 OF_{62}	14.5	X	211.81339	357.42760	343.77230	2.60919	0.0771672	0.18056685	3.1001119	21	3 11.1	19.2
77726 2001 OW_{63}	14.6	X	215.62718	248.21775	110.72720	11.03848	0.1197033	0.18296612	3.0729507	21	4 8.9	19.6
77727 2001 OK_{64}	14.4	X	138.13656	235.10976	174.63275	14.70081	0.0650737	0.18053205	3.1005103	21	3 14.5	19.0
77728 2001 OZ_{66}	14.5	X	157.22709	323.92265	69.63059	10.84700	0.0749369	0.17879347	3.1205773	21	3 23.0	19.3
77729 2001 OY_{68}	14.4	X	291.44716	45.74991	294.69632	9.51962	0.1131230	0.19383098	2.9570177	21	6 3.0	18.6
77730 2001 OF_{69}	14.1	X	272.95975	235.80607	125.41769	12.85015	0.1132810	0.19240508	2.9716092	21	6 8.8	18.5
77731 2001 OA_{70}	13.7	X	58.42974	336.33712	344.21714	14.90028	0.1424067	0.20458081	2.8525031	21	11 22.9	18.0
77732 2001 ON_{73}	14.0	X	93.50790	133.42992	295.02322	20.84345	0.0032024	0.17841247	3.1250184	21	1 31.5	18.5
77733 2001 OS_{73}	14.4	X	232.04867	288.20459	308.83442	7.84131	0.0915124	0.21638715	2.7477786	21	—	—
77734 2001 OH_{76}	13.9	X	160.61620	302.21016	41.90873	5.21784	0.1671847	0.12402210	3.9823247	21	2 6.9	20.1
77735 2001 OJ_{76}	13.3	X	350.50572	210.47368	115.45738	12.26573	0.0892944	0.14788278	3.5415304	21	8 16.4	17.8
77736 2001 OS_{77}	14.3	X	173.55065	351.38352	5.82147	10.56509	0.0699310	0.17904256	3.1176823	21	2 22.3	19.0
77737 2001 OF_{80}	15.5	X	250.86630	183.91170	47.18185	10.91031	0.1963928	0.22295744	2.6935274	21	—	—
77738 2001 OG_{83}	14.7	X	342.46418	316.19962	354.56942	11.65665	0.0441913	0.19443591	2.9508812	21	7 20.2	18.7
77739 2001 OD_{85}	14.1	X	303.41782	278.19650	313.67738	15.60884	0.0593877	0.17758508	3.1347174	21	2 10.5	18.5
77740 2001 OP_{88}	13.7	X	107.15753	167.83257	303.62722	8.34883	0.0566808	0.18411802	3.0601204	21	4 17.4	18.1
77741 2001 OB_{94}	15.0	X	209.18348	164.58419	139.59057	5.81283	0.1418748	0.17518379	3.1632980	21	1 24.6	20.2
77742 2001 OW_{95}	14.5	X	341.04793	225.78799	330.51885	10.55138	0.1456220	0.17863194	3.1224582	21	2 7.3	18.3
77743 2001 OH_{96}	13.0	X	228.64079	181.88283	102.80598	22.85468	0.0253783	0.17141903	3.2094457	21	1 25.4	17.8
77744 2001 OB_{101}	13.8	X	35.60608	324.11259	134.33941	14.69784	0.1347517	0.17147786	3.2087116	21	1 4.9	17.8
77745 2001 OT_{107}	13.5	X	239.13375	353.50661	294.06552	27.30973	0.1615285	0.17506758	3.1646976	21	1 26.9	18.7
77746 2001 OZ_{107}	13.7	X	213.96159	63.49535	294.01550	10.22444	0.1679235	0.17899436	3.1182420	21	3 25.1	19.1
77747 2001 OW_{110}	13.6	X	227.80808	248.39919	10.48233	13.73476	0.0971498	0.17057443	3.2200314	21	—	—
77748 2001 OY_{110}	14.2	X	71.07077	9.27525	111.69322	7.36128	0.0895331	0.17853374	3.1236032	21	3 26.5	18.4
77749 2001 PB_{2}	14.2	X	165.38253	310.57952	121.61245	17.11202	0.0545946	0.18669396	3.0319069	21	5 16.6	19.0
77750 2001 PC_{2}	14.0	X	285.74346	66.49837	120.09648	15.89916	0.1581012	0.17189882	3.2034710	21	—	—
77751 2001 PB_{5}	14.0	X	69.61219	61.87690	344.79079	20.69970	0.0380234	0.16919308	3.2375339	21	—	—
77752 2001 PD_{5}	14.5	X	73.19482	187.18384	5.28225	11.01320	0.0316546	0.19061216	2.9902143	21	6 16.1	18.8
77753 2001 PA_{11}	14.9	X	249.18664	327.25546	328.27872	8.28108	0.1192050	0.18048761	3.1010192	21	2 20.2	19.7
77754 2001 PH_{11}	14.1	X	75.32146	50.59063	346.26747	10.44787	0.0200686	0.17008840	3.2261626	21	—	—
77755 Delémont	14.5	X	75.16721	1.23624	146.23115	11.57710	0.0379739	0.18426371	3.0585073	21	4 27.7	18.9
77756 2001 PX_{15}	14.6	X	254.79062	258.40792	347.58307	8.90752	0.0483756	0.17473450	3.1687181	21	1 7.6	19.3
77757 2001 PN_{29}	14.5	X	319.56394	343.90832	290.30038	7.15911	0.1014413	0.18497110	3.0507044	21	4 16.1	18.6
77758 2001 PN_{34}	14.4	X	237.65956	82.42853	215.35283	13.02265	0.0822871	0.17607700	3.1525910	21	2 10.5	19.5
77759 2001 PY_{36}	13.8	X	204.74826	4.68562	58.46996	10.86284	0.0831925	0.18873113	3.0100499	21	6 10.6	18.4
77760 2001 PW_{38}	13.9	X	347.39279	345.53764	22.07913	17.30846	0.1039069	0.20086980	2.8875286	21	10 10.7	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77761 2001 PJ_{41}	13.9	X	256.32021	223.69509	349.61638	12.87469	0.1298924	0.21734435	2.7397050	21	—	—
77762 2001 PA_{49}	13.8	X	263.50763	279.34951	77.98370	11.56449	0.1332909	0.18902772	3.0069005	21	5 20.6	18.2
77763 2001 PU_{49}	14.4	X	306.61597	283.02328	357.28099	29.00525	0.0894334	0.23442484	2.6049554	21	3 29.2	17.9
77764 2001 PY_{50}	13.6	X	22.22498	232.73044	322.49947	15.91269	0.1722377	0.18156606	3.0887275	21	4 6.9	17.3
77765 2001 PG_{51}	14.4	X	244.27977	103.03408	247.25865	9.09782	0.1246731	0.18792445	3.0186576	21	4 18.5	19.1
77766 2001 PK_{59}	13.3	X	51.45551	127.41452	91.32312	13.95550	0.0412795	0.18756553	3.0225073	21	6 23.2	17.4
77767 2001 PZ_{62}	13.9	X	57.82903	214.35667	117.55483	18.37060	0.1187566	0.15485639	3.4343928	21	12 2.6	19.0
77768 2001 QM	14.0	X	289.01257	63.36027	131.00284	9.39906	0.0263523	0.16969242	3.2311795	21	—	—
77769 2001 QN_{6}	14.4	X	70.87164	318.83040	151.41933	11.27942	0.0569053	0.17775681	3.1326981	21	3 6.4	18.7
77770 2001 QR_{7}	14.5	X	151.58397	308.07893	150.10243	10.33551	0.0696658	0.18671127	3.0317196	21	5 30.7	19.2
77771 2001 QN_{8}	14.3	X	275.15386	248.47818	329.66599	27.52948	0.1956902	0.22341126	2.6898786	21	—	—
77772 2001 QR_{9}	14.1	X	139.33585	124.41752	327.79968	9.46119	0.0706568	0.18368622	3.0649142	21	5 3.5	18.8
77773 2001 QC_{10}	14.5	X	252.32043	316.46968	328.44479	11.26834	0.1075350	0.17781893	3.1319685	21	2 12.9	19.3
77774 2001 QB_{12}	13.2	X	167.71279	1.66505	333.54337	24.30510	0.1560337	0.17150698	3.2083483	21	1 31.3	18.5
77775 2001 QV_{12}	13.9	X	168.31973	17.49826	309.71689	4.48509	0.0938253	0.17041656	3.2220197	21	1 13.1	18.8
77776 2001 QA_{16}	13.6	X	155.70845	39.92327	355.16650	9.42187	0.0264434	0.17871120	3.1215350	21	3 13.5	18.1
77777 2001 QW_{16}	13.4	X	341.93937	150.99762	25.39466	4.82666	0.0859763	0.17424767	3.1746174	21	1 23.6	17.7
77778 2001 QR_{18}	14.6	X	219.04808	227.01534	132.08649	2.42693	0.0919281	0.18119384	3.0929562	21	4 9.5	19.3
77779 2001 QR_{21}	13.9	X	256.43495	7.96407	346.90784	11.42645	0.0355691	0.18462953	3.0544659	21	5 16.3	18.4
77780 2001 QJ_{27}	13.6	X	153.42362	233.07729	147.52120	16.42251	0.0994053	0.17364340	3.1819782	21	3 1.7	18.4
77781 2001 QJ_{32}	14.9	X	260.06510	234.28397	331.02279	10.04213	0.1667241	0.21876098	2.7278646	21	—	—
77782 2001 QP_{35}	14.6	X	266.55409	204.81147	313.36792	11.63187	0.1040345	0.21483344	2.7610110	21	12 23.6	18.2
77783 2001 QQ_{35}	15.5	X	235.19299	161.90008	153.28886	0.55543	0.1302771	0.18151497	3.0893071	21	3 1.2	20.3
77784 2001 QF_{36}	14.8	X	192.88375	290.57180	307.59924	11.46835	0.0623216	0.21552946	2.7550635	21	—	—
77785 2001 QM_{36}	14.0	X	254.88892	23.32362	317.14163	13.57324	0.0975703	0.18715511	3.0269245	21	4 15.7	18.9
77786 2001 QT_{36}	14.8	X	172.91189	342.62405	314.41215	10.46872	0.0280802	0.21960114	2.7209026	21	—	—
77787 2001 QM_{37}	14.1	X	221.31820	47.94458	302.39705	9.06724	0.1095924	0.18315429	3.0708456	21	3 25.6	19.1
77788 2001 QS_{37}	14.3	X	43.73176	113.70540	315.52336	5.47149	0.0905204	0.16909153	3.2388299	21	—	—
77789 2001 QT_{40}	14.8	X	237.05502	272.94235	134.88896	10.60432	0.0888249	0.19310021	2.9644734	21	6 27.5	19.2
77790 2001 QC_{44}	14.2	X	72.55454	102.34002	305.45119	6.09010	0.0200044	0.17041454	3.2220451	21	—	—
77791 2001 QN_{49}	14.5	X	91.32602	43.94778	2.78455	3.10825	0.0355398	0.17177641	3.2049926	21	1 12.7	19.0
77792 2001 QX_{51}	14.0	X	52.52363	100.87419	334.55948	12.75823	0.0542848	0.17073018	3.2180727	21	—	—
77793 2001 QB_{53}	14.1	X	320.45218	224.42197	345.82556	15.09192	0.0086708	0.17701814	3.1414069	21	2 16.6	18.5
77794 2001 QV_{54}	14.3	X	109.55654	306.14888	54.84554	5.62047	0.0786240	0.16726995	3.2623015	21	—	—
77795 2001 QW_{67}	13.9	X	212.58605	305.14141	3.91042	15.78805	0.1960939	0.17529610	3.1619468	21	2 7.6	19.4
77796 2001 QL_{68}	13.9	X	121.80469	358.18334	261.76543	14.34230	0.1059024	0.20637710	2.8359270	21	11 16.6	18.4
77797 2001 QQ_{85}	15.0	X	26.13935	274.68798	297.21758	4.02163	0.2435983	0.23706210	2.5855998	21	5 15.9	17.0
77798 2001 QP_{86}	13.6	X	21.67330	236.10718	302.31396	21.38197	0.2133977	0.17765434	3.1339026	21	3 10.9	17.3
77799 2001 QV_{88}	14.3	X	87.05031	120.63936	269.56203	18.49321	0.0972992	0.36161886	1.9512010	21	—	—
77800 2001 QJ_{89}	14.8	X	339.62913	118.07550	88.75534	12.09349	0.0689550	0.18079121	3.0975465	21	3 3.4	19.1
77801 2001 QA_{100}	14.3	X	140.44126	292.57403	102.21518	15.79101	0.1358012	0.17863187	3.1224591	21	3 13.3	19.3
77802 2001 QW_{102}	14.5	X	175.00276	5.76311	318.05778	15.41078	0.1050433	0.17381972	3.1798260	21	1 17.8	19.4
77803 2001 QF_{103}	14.6	X	218.95173	82.95747	280.40105	2.89059	0.0319731	0.18563919	3.0433807	21	4 14.8	19.1
77804 2001 QA_{119}	14.3	X	327.18046	286.10240	297.94264	9.61630	0.2158629	0.18030135	3.1031545	21	2 8.2	18.3
77805 2001 QG_{122}	14.8	X	300.01443	185.28855	135.17386	10.86964	0.0764697	0.18974140	2.9993558	21	5 28.5	19.0
77806 2001 QU_{123}	14.5	X	336.16933	176.21848	343.91352	13.68441	0.1151917	0.22116605	2.7080524	21	—	—
77807 2001 QU_{125}	14.4	X	234.29097	142.94899	140.27924	10.25670	0.0522152	0.17421574	3.1750053	21	1 26.9	19.0
77808 2001 QQ_{126}	15.0	X	192.83131	341.24695	268.06039	11.12532	0.1222448	0.21673350	2.7448505	21	—	—
77809 2001 QE_{128}	14.3	X	148.86692	213.57201	280.72463	9.04343	0.0329864	0.19216770	2.9740558	21	7 7.6	18.4
77810 2001 QL_{130}	14.2	X	65.55204	299.60667	227.59936	8.12219	0.0265312	0.18460899	3.0546924	21	5 4.3	18.4
77811 2001 QL_{133}	14.8	X	74.44953	340.15114	279.33188	8.82152	0.1948034	0.20090870	2.8871558	21	10 3.1	19.1
77812 2001 QC_{134}	13.8	X	318.83584	271.67178	305.05190	14.50654	0.0773542	0.17574920	3.1565098	21	2 8.4	18.1
77813 2001 QN_{134}	14.1	X	74.01638	146.83305	337.68552	21.49651	0.0297024	0.17550815	3.1593993	21	3 17.5	18.6
77814 2001 QY_{146}	13.2	X	37.85909	346.57984	59.39731	18.39109	0.0593945	0.16325571	3.3155618	21	—	—
77815 2001 QM_{157}	14.3	X	226.62406	236.99484	274.95879	3.34062	0.0249371	0.15554949	3.4241832	21	10 26.1	19.2
77816 2001 QE_{161}	14.4	X	119.97224	167.58489	336.44589	9.29345	0.0225121	0.18910820	3.0060473	21	6 12.8	18.8
77817 2001 QR_{164}	14.2	X	226.11195	343.19281	341.73748	16.28708	0.1713143	0.18067097	3.0989208	21	3 2.6	19.3
77818 2001 QK_{165}	13.6	X	91.85050	316.95719	121.41236	16.83089	0.0706028	0.17546683	3.1598953	21	2 26.8	18.1
77819 2001 QD_{168}	14.2	X	61.47472	289.28062	122.28140	6.09510	0.1029406	0.16961385	3.2321773	21	—	—
77820 2001 QR_{174}	13.9	X	185.12147	311.92614	23.55117	10.87203	0.2370653	0.12455075	3.9710482	21	2 20.8	20.6
77821 2001 QL_{178}	13.6	X	109.36803	30.45502	92.57758	11.42901	0.0682184	0.18386230	3.0629572	21	5 13.8	18.1
77822 2001 QH_{184}	15.2	X	297.84247	294.92217	322.74490	3.58832	0.1282118	0.18162825	3.0880224	21	2 25.6	19.4
77823 2001 QS_{184}	13.6	X	230.56691	347.70356	303.71902	21.28917	0.0380614	0.17515458	3.1636497	21	1 31.6	18.3
77824 2001 QX_{184}	14.2	X	115.43051	197.05693	222.70528	11.99511	0.0328531	0.17558332	3.1584975	21	2 20.2	18.9
77825 2001 QF_{189}	14.2	X	132.32464	65.50624	40.00277	9.49196	0.1183730	0.18491342	3.0513388	21	5 19.7	18.8
77826 2001 QU_{205}	14.7	X	304.19230	50.59367	185.35763	9.69827	0.0373337	0.17789748	3.1310465	21	2 18.8	19.2
77827 2001 QA_{213}	13.7	X	74.90534	97.03544	344.13699	11.88736	0.0897780	0.17084934	3.2165762	21	2 10.9	18.0
77828 2001 QL_{215}	14.1	X	326.92454	230.78256	353.86434	16.31189	0.1709235	0.17909313	3.1170955	21	2 21.6	18.2
77829 2001 QO_{217}	14.0	X	290.10209	103.02819	108.05306	2.75604	0.1141080	0.17173307	3.2055318	21	—	—
77830 2001 QZ_{222}	14.8	X	280.54804	351.72911	344.44126	10.93817	0.0164833	0.18903779	3.0067937	21	5 26.6	19.2
77831 2001 QL_{226}	14.1	X	164.98880	179.17240	310.37778	7.72666	0.0693944	0.18932629	3.0037384	21	7 22.7	18.6
77832 2001 QU_{226}	14.2	X	291.95157	286.19322	293.71998	7.54677	0.1900266	0.17304136	3.1893544	21	—	—
77833 2001 QN_{230}	14.7	X	318.01869	329.75201	270.15545	5.95698	0.0593837	0.17966358	3.1104939	21	3 8.5	19.0
77834 2001 QW_{250}	14.5	X	325.45465	254.03306	112.56253	11.41552	0.0377569	0.19636540	2.9315191	21	9 9.4	18.5
77835 2001 QS_{255}	14.6	X	9.93956	267.26620	299.42961	8.55718	0.0617491	0.18273571	3.0755333	21	4 5.4	18.9
77836 2001 QJ_{258}	14.5	X	276.42941	200.40356	16.88181	13.30457	0.1218174	0.21910483	2.7250099	21	—	—
77837 2001 QK_{267}	13.6	X	89.21733	58.47080	257.80623	4.16336	0.0095474	0.15825190	3.3850890	21	12 2.5	18.2
77838 2001 QO_{267}	13.5	X	235.06125	358.95769	269.95774	20.71953	0.0213939	0.16881864	3.2423193	21	1 11.1	18.3
77839 2001 QU_{268}	14.2	X	296.94214	136.80872	122.06198	14.91777	0.1394562	0.17598190	3.1537266	21	2 28.9	18.8
77840 2001 QH_{271}	14.6	X	170.81263	311.49187	5.84682	7.10882	0.0909743	0.17225701	3.1990285	21	1 4.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77841 2001 QO_{272}	14.5	X	75.63811	153.18013	7.46137	9.59037	0.0954382	0.18623659	3.0368689	21	5 16.2	18.7
77842 2001 QA_{273}	14.1	X	249.12199	294.59910	117.13141	11.55780	0.0910469	0.19267717	2.9688109	21	7 16.0	18.2
77843 2001 QC_{274}	14.2	X	31.85642	126.72451	2.58617	4.96057	0.0887309	0.17606966	3.1526786	21	2 6.2	18.1
77844 2001 QF_{276}	13.7	X	130.83764	1.86446	355.99491	18.54989	0.0855173	0.16962224	3.2320707	21	1 13.1	18.7
77845 2001 QR_{279}	14.2	X	192.36907	338.83496	129.58942	11.73877	0.0587965	0.19166393	2.9792650	21	7 25.9	18.5
77846 2001 QM_{283}	14.1	X	91.67059	177.01576	234.19560	10.26433	0.0828223	0.17268629	3.1937247	21	1 20.9	18.6
77847 2001 QQ_{287}	14.5	X	225.71241	3.20544	306.52336	4.12012	0.1241706	0.17569679	3.1571375	21	2 14.5	19.6
77848 2001 QZ_{289}	14.6	X	74.33702	276.45773	159.90120	6.15687	0.1491693	0.17207420	3.2012939	21	2 8.2	18.6
77849 2001 RE_{5}	14.0	X	69.76754	218.23041	319.10960	10.04632	0.0665699	0.18361814	3.0656718	21	5 26.8	18.3
77850 2001 RB_{28}	14.4	X	102.22947	306.58222	176.73423	5.87485	0.1298748	0.18236319	3.0797202	21	5 12.3	18.8
77851 2001 RW_{33}	14.2	X	42.69343	290.33604	177.69169	10.34339	0.0972761	0.17272383	3.1932619	21	1 24.6	18.4
77852 2001 RN_{35}	14.8	X	315.31912	14.05599	290.10224	5.52565	0.1170370	0.18924237	3.0046263	21	5 19.0	18.7
77853 2001 RS_{35}	14.7	X	246.26871	322.33327	307.53057	7.18290	0.0306955	0.17383792	3.1796041	21	1 26.3	19.1
77854 2001 RX_{36}	14.8	X	333.31871	230.66242	304.51331	11.82232	0.0681283	0.17329616	3.1862273	21	1 12.6	19.1
77855 2001 RK_{40}	14.5	X	328.44581	324.50815	236.19207	13.93169	0.1674655	0.17367103	3.1816406	21	1 18.6	18.9
77856 Noblitt	14.1	X	331.77211	289.50579	300.55626	12.69939	0.1183468	0.22980342	2.6397637	21	2 24.2	17.6
77857 2001 RG_{73}	14.5	X	298.47827	264.75064	5.33658	13.67108	0.1799419	0.22819788	2.6521310	21	3 3.9	18.3
77858 2001 RJ_{129}	14.6	X	263.35756	152.66339	99.22998	2.79655	0.0360285	0.17195122	3.2028201	21	1 24.5	19.3
77859 2001 RY_{131}	14.3	X	342.20809	238.77030	12.13136	11.01493	0.0946665	0.18357971	3.0660996	21	4 21.5	18.2
77860 2001 RQ_{133}	12.8	X	299.17239	237.79388	77.66274	3.28387	0.0631002	0.08624287	5.0736509	21	5 25.9	19.5
77861 2001 RY_{136}	14.3	X	23.05569	125.66531	60.25887	5.73272	0.0431830	0.17791190	3.1308774	21	4 5.2	18.5
77862 2001 RG_{143}	14.2	X	326.85046	338.26584	299.39389	9.16159	0.0189547	0.18357497	3.0661524	21	5 11.8	18.6
77863 2001 RA_{145}	14.9	X	210.59564	33.46984	270.51326	6.81297	0.0138552	0.17273750	3.1930935	21	1 25.6	19.6
77864 2001 RE_{145}	14.2	X	186.75566	97.29844	265.72974	7.39185	0.0512002	0.17976740	3.1092962	21	3 7.1	18.9
77865 2001 RC_{146}	13.4	X	79.65831	234.03745	268.05200	22.23624	0.2043783	0.18127607	3.0920207	21	5 16.2	17.8
77866 2001 RR_{148}	14.2	X	158.89899	297.65090	129.08790	17.24076	0.0821296	0.18257431	3.0773456	21	5 5.2	19.2
77867 2001 RS_{153}	14.1	X	312.78879	302.29385	257.62468	11.18446	0.1002483	0.17387254	3.1791819	21	1 9.5	18.6
77868 2001 RY_{154}	14.2	X	101.58907	319.44384	145.16515	14.23623	0.0890413	0.17772504	3.1330715	21	4 16.1	18.8
77869 2001 SA	14.3	X	261.75447	177.91556	39.12745	2.05256	0.2487360	0.16910588	3.2386467	21	—	—
77870 MOTESS	13.2	X	78.16138	276.44351	24.43139	17.06837	0.1051431	0.20314233	2.8659532	21	11 16.4	17.5
77871 2001 SC_{9}	13.6	X	261.81863	292.39134	50.07517	12.57911	0.0807325	0.18364153	3.0654115	21	5 5.9	18.1
77872 2001 SU_{15}	14.6	X	55.46014	160.53745	12.78309	4.17886	0.1318470	0.18074389	3.0980871	21	5 10.9	18.5
77873 2001 SQ_{46}	14.0	X	85.48037	84.08950	155.23394	6.32620	0.1558594	0.19483387	2.9468616	21	9 20.6	18.3
77874 2001 SK_{51}	13.9	X	19.41529	146.40842	24.67618	11.02146	0.1879554	0.17361516	3.1823232	21	3 14.8	17.4
77875 2001 SZ_{52}	14.6	X	328.36514	226.65129	28.55284	12.11235	0.1598966	0.23001014	2.6381818	21	3 27.4	17.7
77876 2001 SJ_{55}	14.7	X	296.09926	178.14778	43.22180	8.68686	0.2364220	0.22267425	2.6958106	21	—	—
77877 2001 SC_{59}	13.6	X	289.79402	250.65675	34.76966	18.19066	0.1820479	0.17876569	3.1209006	21	3 23.2	18.3
77878 2001 SE_{62}	12.9	X	4.79635	171.43842	24.39219	16.48061	0.0418855	0.17417452	3.1755062	21	3 26.2	17.3
77879 2001 SX_{79}	14.1	X	160.84652	156.06184	231.16251	7.68332	0.0543489	0.17886940	3.1196941	21	3 8.8	18.8
77880 2001 SE_{121}	14.6	X	201.86185	285.29023	292.49441	5.73805	0.2008434	0.21019141	2.8015136	21	12 8.3	19.2
77881 2001 SG_{122}	14.6	X	304.17181	271.64439	324.93652	7.38548	0.1296393	0.22622274	2.6675457	21	1 31.8	18.3
77882 2001 SV_{124}	14.3	X	329.78921	276.92382	323.81911	6.09163	0.1037486	0.18119101	3.0929884	21	3 20.3	18.3
77883 2001 SC_{126}	14.2	X	89.19667	164.71777	351.20446	9.33618	0.2214848	0.18277693	3.0750708	21	6 18.2	18.8
77884 2001 SG_{126}	12.9	X	214.01499	33.40668	285.23086	7.31894	0.1892558	0.12528441	3.9555301	21	2 16.9	19.3
77885 2001 SB_{143}	14.5	X	325.08358	350.26597	248.59205	4.91574	0.1709784	0.17972660	3.1097667	21	3 1.8	18.6
77886 2001 SN_{169}	13.8	X	17.63361	171.64683	26.62692	17.21443	0.0609007	0.17919529	3.1159107	21	4 12.1	17.8
77887 2001 ST_{171}	14.7	X	16.58744	133.11388	97.96326	3.08680	0.1354991	0.18479786	3.0526108	21	5 24.5	18.2
77888 2001 SC_{181}	13.9	X	11.07715	164.71787	331.05432	4.03360	0.1141118	0.17264441	3.1942412	21	1 12.9	17.9
77889 2001 SM_{192}	14.3	X	44.24665	261.81715	293.62584	0.17422	0.1408596	0.18429212	3.0581929	21	5 24.3	18.0
77890 2001 SN_{200}	15.5	X	357.74228	116.17925	146.32233	2.03071	0.1624253	0.18825890	3.0150814	21	6 1.3	18.7
77891 2001 SM_{232}	12.8	X	219.36098	27.84353	31.99032	14.22249	0.1605220	0.08394323	5.1658955	21	6 18.3	20.4
77892 2001 SZ_{250}	13.2	X	56.70651	0.76960	157.87650	3.63989	0.1508666	0.12368963	3.9894576	21	5 3.9	18.4
77893 2001 SM_{251}	14.1	X	277.57427	183.88723	93.33471	1.42223	0.0995833	0.12441905	3.9738499	21	3 10.4	19.7
77894 2001 SY_{263}	12.4	X	269.95894	81.10993	273.29494	26.48799	0.0635943	0.08510461	5.1187902	21	6 6.4	19.3
77895 2001 SH_{324}	12.8	X	184.19854	231.74317	93.04114	10.04860	0.2500701	0.12681171	3.9237061	21	2 6.3	19.4
77896 2001 TQ_{5}	14.4	X	87.41669	45.43935	138.71366	10.75268	0.0274447	0.18768733	3.0211995	21	6 24.7	18.8
77897 2001 TE_{64}	12.5	X	225.48562	31.05344	18.79119	6.99184	0.0555875	0.08203731	5.2455991	21	6 21.3	19.7
77898 2001 TO_{88}	13.4	X	100.48369	119.75941	10.46110	17.52209	0.0466219	0.17865226	3.1222215	21	4 30.2	18.0
77899 2001 TS_{117}	13.4	X	272.36647	270.52537	335.80525	31.62357	0.0377037	0.17003589	3.2268268	21	2 6.2	18.3
77900 2001 TR_{139}	14.2	X	320.59685	85.28066	29.25092	12.23636	0.0185196	0.16085044	3.3485328	21	—	—
77901 2001 TQ_{141}	13.8	X	306.61045	246.93555	52.26112	10.59165	0.0700926	0.18339409	3.0681681	21	5 8.8	17.8
77902 2001 TY_{141}	12.4	X	269.12447	289.45925	59.53027	8.59043	0.0218672	0.08410320	5.1593427	21	6 3.2	19.3
77903 2001 TQ_{142}	13.2	X	9.97257	119.78424	72.16856	8.16880	0.1539329	0.12594641	3.9416572	21	4 2.6	18.0
77904 2001 TV_{144}	14.5	X	19.01352	161.47954	55.75073	12.95950	0.1106663	0.18069747	3.0986178	21	5 9.7	18.1
77905 2001 TR_{147}	13.3	X	79.74178	344.59983	158.67186	8.16558	0.1328476	0.12589721	3.9426840	21	5 14.4	18.8
77906 2001 TU_{162}	12.6	X	246.05480	100.92028	246.96075	3.50528	0.0670506	0.08129269	5.2775828	21	5 2.4	19.7
77907 2001 TC_{202}	13.6	X	292.35440	221.39262	35.38951	17.46525	0.1713086	0.17871967	3.1214363	21	2 22.4	18.5
77908 2001 TW_{203}	14.7	X	270.22950	20.83023	174.84964	26.17034	0.1587482	0.21401201	2.7680714	21	—	—
77909 2001 TE_{210}	13.8	X	39.36408	257.45491	270.10299	11.74183	0.2193537	0.17732995	3.1377234	21	4 11.8	17.4
77910 2001 TV_{235}	13.2	X	354.32598	79.69035	131.07248	9.89630	0.1172002	0.12325389	3.9988547	21	4 1.9	18.3
77911 2001 TB_{239}	13.3	X	354.90050	55.75846	93.17711	10.34028	0.2045894	0.16609830	3.2776249	21	—	—
77912 2001 TF_{239}	14.1	X	110.86038	55.51983	128.95093	12.28319	0.0043087	0.18901429	3.0070429	21	7 21.5	18.3
77913 2001 UT_{22}	14.2	X	312.36063	339.32498	257.41712	9.51484	0.1682570	0.17684564	3.1434494	21	2 9.7	18.7
77914 2001 UE_{188}	11.8	X	320.29144	235.43014	78.03432	19.77579	0.0256413	0.08078618	5.2996193	21	6 21.4	18.7
77915 2001 VE_{36}	15.2	X	190.21081	145.20221	256.75403	6.44564	0.0906256	0.22414155	2.6840327	21	4 26.5	19.2
77916 2001 WL_{87}	12.6	X	333.15881	286.78826	11.15707	6.37746	0.0859574	0.08197239	5.2483683	21	6 15.1	19.2
77917 2002 BS_{20}	16.5	X	139.12148	314.98461	204.17022	21.17579	0.0714908	0.37636849	1.8998845	21	7 30.8	19.3
77918 2002 BP_{21}	15.2	X	290.48488	197.59088	60.21878	23.01333	0.0395490	0.36236494	1.9485218	21	2 4.4	17.9
77919 2002 CO_{244}	16.0	X	254.55825	300.07527	346.82374	7.41478	0.2301746	0.30293358	2.1956904	21	1 25.2	19.7
77920 2002 EU_{9}	16.2	X	236.97595	0.03158	291.37262	4.26761	0.2076364	0.30426207	2.1892944	21	1 14.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
77921 2002 EA_{12}	16.2	X	234.00174	176.34581	63.72382	5.35528	0.1238898	0.29238448	2.2481908	21	—	—
77922 2002 EO_{66}	16.2	X	14.34281	303.17173	353.60645	2.11788	0.2303648	0.27070760	2.3666594	21	9 10.8	17.9
77923 2002 EL_{74}	16.0	X	85.14674	78.04252	223.11426	2.64470	0.1674741	0.28040896	2.3117532	21	12 17.2	19.4
77924 2002 ES_{88}	16.7	X	261.34635	160.76321	98.56794	2.75098	0.1315037	0.30051091	2.2074755	21	—	—
77925 2002 EL_{98}	16.3	X	9.55293	326.58167	206.41261	20.84584	0.0657073	0.36063410	1.9547513	21	1 9.5	18.8
77926 2002 EJ_{140}	15.6	X	169.03195	306.38348	357.76234	8.70021	0.2440918	0.24524724	2.5277452	21	—	—
77927 2002 FK_{6}	16.3	X	192.01278	97.69064	34.94311	19.30151	0.0746255	0.37874478	1.8919295	21	9 19.1	18.7
77928 2002 GF_{3}	16.4	X	88.02160	257.53292	20.91177	8.27802	0.2667999	0.27725957	2.3292263	21	11 27.2	20.3
77929 2002 GO_{7}	15.7	X	1.20534	240.05563	69.14971	7.47442	0.1348973	0.26979863	2.3719720	21	8 24.9	18.0
77930 2002 GR_{10}	14.4	X	162.70294	223.43198	87.66113	17.95384	0.1940867	0.18446331	3.0563004	21	—	—
77931 2002 GO_{19}	16.3	X	128.54521	76.21708	228.13403	5.25009	0.2269251	0.28448886	2.2895978	21	—	—
77932 2002 GC_{21}	16.3	X	249.70492	354.71944	292.06122	1.66338	0.0831620	0.30097716	2.2051951	21	1 24.8	19.3
77933 2002 GE_{21}	15.0	X	154.82242	311.82371	10.09233	3.98691	0.2800522	0.23741964	2.5830033	21	—	—
77934 2002 GN_{22}	16.3	X	131.89104	330.73258	294.53576	3.79947	0.1396606	0.28155481	2.3054768	21	12 15.8	19.7
77935 2002 GM_{54}	15.7	X	137.51787	35.74360	265.46587	5.07417	0.2124151	0.28820637	2.2698666	21	—	—
77936 2002 GR_{63}	14.8	X	346.87224	282.70090	65.59160	5.36998	0.3456964	0.21881104	2.7274485	21	9 23.4	16.1
77937 2002 GN_{64}	16.5	X	140.91022	127.54234	184.12357	4.87620	0.1508617	0.28845504	2.2685619	21	—	—
77938 2002 GB_{83}	16.4	X	262.72012	228.82706	86.15750	4.92982	0.2000035	0.30616179	2.1802287	21	3 10.6	19.7
77939 2002 GA_{88}	16.1	X	178.98381	178.61723	147.81072	6.48333	0.1910638	0.29511241	2.2343150	21	1 8.2	19.4
77940 2002 GP_{88}	15.9	X	139.35261	206.42170	132.03411	6.42230	0.1941623	0.29062384	2.2572616	21	—	—
77941 2002 GH_{89}	15.2	X	62.69408	194.15882	119.74742	15.97402	0.2547680	0.22485408	2.6783595	21	12 13.3	19.4
77942 2002 GV_{90}	16.3	X	25.15552	247.72680	53.79196	3.05021	0.2042420	0.26975461	2.3722300	21	10 7.4	18.5
77943 2002 GA_{94}	16.3	X	298.44379	52.15482	239.86875	4.69525	0.1909439	0.25731779	2.4480644	21	3 20.7	19.6
77944 2002 GA_{96}	16.4	X	190.02872	317.80618	325.02006	4.58372	0.1480368	0.29183376	2.2510183	21	—	—
77945 2002 GL_{96}	16.7	X	191.51438	283.40834	0.48322	3.83455	0.1714065	0.29189644	2.2506961	21	—	—
77946 2002 GO_{100}	16.3	X	225.66822	98.76406	244.34367	2.92268	0.1699042	0.30821196	2.1705496	21	3 9.4	19.6
77947 2002 GW_{104}	16.1	X	215.69223	193.30565	114.66435	6.94526	0.1543508	0.29762107	2.2217419	21	1 17.4	19.2
77948 2002 GH_{116}	16.0	X	352.85455	187.51890	119.54902	7.23198	0.1422420	0.26799399	2.3826084	21	7 29.8	17.9
77949 2002 GM_{132}	16.0	X	300.87164	25.97657	347.76328	3.52010	0.1520538	0.27157510	2.3616167	21	7 29.8	18.4
77950 2002 GG_{134}	16.3	X	98.77179	103.61591	221.03548	5.18790	0.1333837	0.28665267	2.2780612	21	—	—
77951 2002 GK_{141}	16.6	X	330.39037	117.01242	153.01234	0.64336	0.1925996	0.25805044	2.4434285	21	4 7.7	18.9
77952 2002 GU_{141}	16.0	X	122.32529	256.82297	52.43306	6.12794	0.1838618	0.28447831	2.2896544	21	—	—
77953 2002 GO_{143}	16.1	X	52.17814	349.00355	16.51228	5.32350	0.1245093	0.28505492	2.2865657	21	—	—
77954 2002 GZ_{176}	16.1	X	222.70125	137.79111	215.21173	1.82182	0.2355898	0.25627895	2.4546756	21	3 23.7	20.3
77955 2002 HX_{1}	15.2	X	52.12513	268.68894	36.65042	10.30868	0.2933655	0.22442304	2.6817879	21	11 23.1	19.0
77956 2002 HR_{8}	14.4	X	45.21810	115.92316	198.00196	10.47133	0.1773941	0.17174370	3.2053996	21	11 3.5	18.6
77957 2002 HF_{9}	16.3	X	283.40307	196.66535	84.12049	6.09271	0.1623561	0.30522732	2.1846764	21	2 18.4	19.3
77958 2002 HR_{10}	16.2	X	8.16562	300.77360	359.89740	0.93927	0.1910889	0.26659352	2.3909454	21	8 27.1	17.8
77959 2002 HX_{11}	16.3	X	225.34235	201.46138	86.85479	5.77435	0.1976292	0.29821447	2.2187936	21	1 2.4	19.8
77960 2002 HB_{13}	16.0	X	104.24617	295.47178	135.94636	24.04421	0.1054767	0.35513122	1.9748926	21	1 29.9	17.4
77961 2002 HP_{13}	15.8	X	146.62362	354.82647	118.61403	24.34219	0.0467033	0.36532672	1.9379761	21	6 9.2	18.3
77962 2002 JA_{1}	14.5	X	14.30002	231.63156	94.20077	15.29262	0.2447353	0.21738553	2.7393591	21	10 26.8	17.6
77963 2002 JP_{1}	16.5	X	335.25316	221.14343	65.88970	1.49423	0.2016492	0.26009015	2.4306370	21	5 11.1	18.6
77964 2002 JT_{1}	15.9	X	58.93515	123.12024	229.66688	2.98460	0.1631299	0.28233446	2.3012305	21	—	—
77965 2002 JC_{2}	16.7	X	21.34583	127.29147	154.45569	2.54100	0.1833874	0.26840771	2.3801595	21	8 24.4	18.4
77966 2002 JJ_{5}	16.6	X	288.83740	268.82066	30.17290	2.93871	0.0853988	0.30789799	2.1720250	21	3 29.8	19.0
77967 2002 JK_{5}	16.8	X	341.44106	352.52964	283.21487	0.72880	0.1750624	0.25997874	2.4313314	21	5 9.9	18.9
77968 2002 JM_{7}	15.8	X	298.49650	152.38825	110.81497	5.66449	0.1307477	0.30434669	2.1888886	21	2 15.1	18.5
77969 2002 JX_{7}	15.6	X	207.63851	168.98703	127.68668	7.24882	0.2138814	0.24453687	2.5326382	21	1 6.0	19.8
77970 2002 JB_{10}	15.8	X	223.53964	310.30828	99.44455	23.87847	0.0979505	0.36756639	1.9300957	21	6 12.3	18.2
77971 Donnolo	15.2	X	11.27005	258.63234	93.12961	22.03420	0.2893203	0.27886746	2.3202644	21	12 14.0	17.5
77972 2002 JF_{11}	15.8	X	206.54890	79.46860	207.54966	6.18585	0.1196366	0.29330867	2.2434658	21	—	—
77973 2002 JR_{11}	16.4	X	331.57741	226.01481	51.10216	4.63621	0.1794194	0.30978764	2.1631833	21	4 16.3	18.1
77974 2002 JD_{13}	16.3	X	14.53432	100.22317	54.52448	22.53242	0.0656241	0.35266079	1.9841048	21	—	—
77975 2002 JL_{18}	16.1	X	97.11330	169.53665	118.45324	5.86764	0.1405817	0.27842778	2.3227065	21	12 10.7	19.6
77976 2002 JN_{19}	16.2	X	193.38043	124.73331	124.89967	5.62878	0.0891210	0.28753331	2.2734074	21	—	—
77977 2002 JB_{21}	16.2	X	186.19909	90.24585	224.96492	3.68384	0.1447048	0.29436776	2.2380814	21	—	—
77978 2002 JD_{21}	16.0	X	156.66353	226.42478	27.17021	3.79073	0.1587324	0.28259625	2.2998091	21	12 24.3	19.5
77979 2002 JU_{21}	16.5	X	281.58419	132.60748	175.00417	4.66466	0.1597176	0.30631116	2.1795199	21	3 22.2	19.3
77980 2002 JV_{22}	15.8	X	189.06800	228.00847	71.46526	4.64076	0.1738277	0.29279172	2.2461057	21	—	—
77981 2002 JK_{24}	15.6	X	168.93208	213.90772	91.20385	6.47563	0.2736159	0.23735985	2.5834370	21	—	—
77982 2002 JF_{27}	15.7	X	159.20028	266.73651	64.56393	6.37282	0.2616876	0.23952169	2.5678687	21	1 12.2	19.9
77983 2002 JU_{27}	16.3	X	164.27463	112.30516	204.65673	7.19567	0.1682422	0.29164490	2.2519900	21	—	—
77984 2002 JO_{28}	15.9	X	122.53444	70.21718	210.92700	6.48954	0.1120922	0.28117234	2.3075670	21	12 25.8	19.3
77985 2002 JM_{29}	15.8	X	135.35680	152.56579	200.18093	5.59673	0.2090128	0.29115119	2.2545351	21	—	—
77986 2002 JX_{30}	16.0	X	171.31893	106.54051	217.19896	4.33148	0.2468957	0.23941000	2.5686673	21	1 10.7	20.3
77987 2002 JY_{30}	16.2	X	344.51836	239.26613	68.56747	2.77397	0.1456830	0.31528134	2.1379811	21	7 13.1	17.6
77988 2002 JR_{31}	16.0	X	93.54114	198.92668	82.61644	3.55935	0.2129455	0.27596390	2.3365112	21	12 3.5	19.5
77989 2002 JP_{33}	15.8	X	172.62253	41.26073	222.95631	7.79375	0.1083482	0.28555810	2.2838788	21	—	—
77990 2002 JV_{33}	15.1	X	135.53673	241.55163	79.22057	5.54513	0.2509325	0.23365621	2.6106651	21	—	—
77991 2002 JH_{34}	15.9	X	222.76171	239.04978	65.50621	5.94389	0.1147074	0.29742724	2.2227070	21	1 20.4	19.1
77992 2002 JD_{35}	15.8	X	5.06321	197.67060	84.88766	7.53226	0.1174891	0.26351178	2.4095505	21	7 15.5	18.0
77993 2002 JE_{35}	16.0	X	153.30274	48.77393	202.84613	6.77514	0.0933912	0.28128039	2.3069760	21	12 20.9	19.4
77994 2002 JY_{39}	16.0	X	95.19843	152.90542	142.55821	6.52439	0.1331002	0.27813385	2.3243427	21	12 17.5	19.5
77995 2002 JJ_{40}	15.7	X	168.21783	341.37447	281.99810	3.11256	0.1954334	0.23530236	2.5984749	21	—	—
77996 2002 JW_{41}	16.4	X	47.47876	56.99833	219.95757	2.55947	0.1586064	0.27062437	2.3671445	21	9 28.1	19.1
77997 2002 JD_{43}	16.3	X	230.34394	191.29511	233.16749	20.23991	0.1046176	0.37218379	1.9140991	21	7 5.0	18.9
77998 2002 JB_{48}	15.8	X	107.95384	293.46188	27.94937	10.51629	0.1686821	0.28314332	2.2968458	21	—	—
77999 2002 JD_{48}	15.6	X	69.15072	88.46884	261.14517	5.75042	0.1553928	0.28232440	2.3012852	21	—	—
78000 2002 JS_{48}	16.0	X	174.48595	246.17697	30.81744	3.61308	0.2283256	0.23546724	2.5972618	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78001 2002 JP_{49}	15.7	X	48.69942	336.05464	27.06366	6.96708	0.1306515	0.28162860	2.3050740	21	—	—
78002 2002 JK_{50}	16.1	X	178.38239	16.07220	248.54981	3.76686	0.1019311	0.28677386	2.2774194	21	—	—
78003 2002 JV_{50}	16.5	X	99.55154	259.12295	33.01005	3.12442	0.1607509	0.27805672	2.3247725	21	12 18.8	20.1
78004 2002 JK_{51}	16.0	X	227.98686	209.30746	29.59174	2.15873	0.1755334	0.29054353	2.2576776	21	—	—
78005 2002 JB_{52}	14.4	X	9.58763	280.42273	49.72944	9.78896	0.2023258	0.21769813	2.7367360	21	10 12.5	17.2
78006 2002 JE_{52}	16.4	X	313.53579	8.72756	275.65745	3.51530	0.1789582	0.30728157	2.1749288	21	3 25.3	19.0
78007 2002 JG_{52}	16.0	X	10.07175	333.57390	312.52620	0.97019	0.1734133	0.31553055	2.1368552	21	8 8.5	17.1
78008 2002 JJ_{52}	15.9	X	269.60548	292.94229	42.89672	4.83764	0.2116864	0.30688444	2.1768047	21	4 11.1	18.9
78009 2002 JM_{52}	14.2	X	117.31792	274.11734	55.12996	16.85074	0.2802695	0.17921426	3.1156908	21	—	—
78010 2002 JO_{53}	16.3	X	121.34331	265.83716	25.55458	6.29330	0.1022751	0.28307971	2.2971899	21	—	—
78011 2002 JF_{54}	16.2	X	230.03185	49.34586	239.34014	6.04121	0.1013425	0.29778539	2.2209245	21	1 5.4	19.5
78012 2002 JK_{55}	16.5	X	349.09053	61.98624	210.70920	0.98103	0.1708527	0.26043981	2.4284610	21	5 22.6	18.5
78013 2002 JS_{55}	16.1	X	323.76497	242.29328	44.64745	4.01509	0.1728045	0.30972654	2.1634678	21	4 18.4	17.9
78014 2002 JC_{56}	15.7	X	148.35171	235.07925	46.17137	2.75543	0.0692128	0.23364893	2.6107193	21	—	—
78015 2002 JJ_{57}	15.3	X	48.92132	96.19783	233.58901	11.30248	0.1903753	0.22365740	2.6879047	21	12 7.5	19.0
78016 2002 JB_{59}	15.8	X	167.53350	217.61151	58.53196	9.02562	0.1563513	0.28519189	2.2858336	21	—	—
78017 2002 JY_{59}	16.4	X	133.64214	322.03509	304.71493	1.83198	0.1931978	0.22773457	2.6557269	21	12 11.9	21.0
78018 2002 JM_{62}	15.8	X	165.00719	227.60160	91.51871	7.15744	0.1486429	0.23937926	2.5688872	21	—	—
78019 2002 JR_{62}	15.9	X	248.28200	111.84455	174.75531	5.71113	0.1225181	0.29867030	2.2165355	21	1 20.8	19.1
78020 2002 JX_{64}	15.8	X	180.67426	140.93876	180.50633	4.40151	0.0494090	0.29431781	2.2383347	21	—	—
78021 2002 JY_{64}	14.5	X	217.67923	191.53066	81.81397	12.88697	0.1060055	0.18945370	3.0023915	21	—	—
78022 2002 JP_{67}	15.7	X	199.83936	355.08292	319.79602	5.58789	0.1983669	0.29738834	2.2229008	21	1 14.1	19.2
78023 2002 JG_{69}	16.6	X	106.18771	81.36741	51.41705	22.60812	0.0733534	0.36496150	1.9392688	21	5 7.8	18.1
78024 2002 JO_{70}	16.9	X	282.10043	30.24997	269.39124	2.47866	0.1810226	0.30696089	2.1764433	21	3 7.7	19.8
78025 2002 JZ_{70}	16.4	X	18.27623	198.82211	86.71017	3.66974	0.1828350	0.26721902	2.3872128	21	8 25.8	18.3
78026 2002 JJ_{72}	16.2	X	240.28371	128.44827	184.20100	3.94051	0.1683655	0.30278780	2.1963951	21	2 13.2	19.7
78027 2002 JZ_{72}	15.4	X	200.75722	227.58270	98.48201	15.31598	0.1949255	0.24363731	2.5388684	21	2 6.2	19.8
78028 2002 JH_{73}	16.0	X	12.39245	147.91153	143.87171	6.54309	0.1616436	0.26403474	2.4063678	21	8 18.0	17.9
78029 2002 JR_{74}	16.1	X	204.20500	263.22671	20.57844	3.42646	0.1325851	0.29273504	2.2463956	21	—	—
78030 2002 JB_{75}	16.2	X	69.00198	322.95474	287.99129	1.30200	0.1787210	0.26847841	2.3797416	21	9 24.4	19.2
78031 2002 JH_{75}	15.7	X	355.52498	270.58040	64.75881	5.95785	0.1342456	0.31892714	2.1216565	21	10 2.3	17.3
78032 2002 JN_{77}	16.3	X	54.76314	288.62048	21.85138	2.43063	0.2070984	0.27599338	2.3363448	21	11 30.7	19.5
78033 2002 JC_{79}	16.6	X	183.97176	7.02482	316.36209	1.87709	0.0902676	0.29767096	2.2214936	21	—	—
78034 2002 JF_{82}	15.4	X	212.46987	332.16912	39.43733	7.38203	0.1517987	0.25733221	2.4479729	21	4 10.6	19.2
78035 2002 JU_{89}	16.5	X	106.24048	202.68274	133.24528	0.35910	0.1542305	0.28571721	2.2830309	21	—	—
78036 2002 JK_{95}	15.5	X	88.90286	206.60062	46.20829	7.79607	0.0641888	0.27204576	2.3588921	21	10 9.8	18.6
78037 2002 JR_{95}	16.4	X	330.84964	235.96140	41.55620	1.51315	0.1733403	0.25739088	2.4476010	21	4 22.9	18.9
78038 2002 JN_{103}	15.8	X	305.61722	267.17794	69.98224	8.46860	0.0661212	0.26398075	2.4066958	21	6 24.9	18.7
78039 2002 JQ_{103}	16.0	X	168.96822	262.71995	73.79560	3.77501	0.1607808	0.29407240	2.2395798	21	1 8.9	19.0
78040 2002 JA_{106}	16.8	X	42.75358	215.42578	69.20276	2.26399	0.1778654	0.26788135	2.3832763	21	10 6.9	19.4
78041 2002 JD_{111}	15.8	X	244.88815	244.66055	14.59427	5.85738	0.1675776	0.29456771	2.2370685	21	—	—
78042 2002 JO_{113}	15.9	X	4.85505	308.04279	306.11332	5.69899	0.0735359	0.26316439	2.4116705	21	5 29.4	18.5
78043 2002 JU_{113}	15.7	X	26.61055	52.99139	243.71834	13.52362	0.0992280	0.27087011	2.3657127	21	9 6.8	18.7
78044 2002 JH_{116}	15.8	X	142.39037	338.93602	267.83187	8.83110	0.1910058	0.27997640	2.3141336	21	12 1.9	19.7
78045 2002 JP_{118}	16.4	X	286.49211	210.13654	53.25852	23.14304	0.0586539	0.35741355	1.9664763	21	2 7.9	19.3
78046 2002 JS_{118}	15.8	X	29.35020	176.31120	115.23706	11.85233	0.2274371	0.26947551	2.3738677	21	10 9.6	18.5
78047 2002 JV_{123}	15.4	X	157.51368	94.70904	172.02179	10.88037	0.1318069	0.18156323	3.0887596	21	12 25.5	20.5
78048 2002 JZ_{126}	15.8	X	66.66285	184.08836	170.09118	6.54224	0.1377741	0.28421253	2.2910816	21	—	—
78049 2002 JR_{127}	16.3	X	131.24988	122.85762	170.82101	6.49513	0.1190674	0.28418228	2.2912443	21	—	—
78050 2002 JY_{129}	15.6	X	131.55366	163.96792	151.48563	6.68476	0.2486471	0.23309117	2.6148825	21	—	—
78051 2002 JO_{135}	15.1	X	121.85579	245.08581	102.96054	6.42344	0.2599874	0.23478718	2.6022747	21	—	—
78052 2002 JW_{138}	15.6	X	277.33949	177.79784	238.83342	6.73737	0.0726486	0.22006827	2.7170508	21	8 28.8	19.3
78053 2002 JB_{139}	15.8	X	37.04013	101.94456	227.86410	8.40183	0.2493727	0.22115663	2.7081294	21	12 1.2	19.3
78054 2002 JR_{140}	15.7	X	131.23924	199.42286	146.72920	4.80632	0.1684480	0.23771781	2.5808429	21	—	—
78055 2002 JJ_{146}	15.1	X	317.42667	108.02522	91.99917	12.94111	0.0658130	0.24169915	2.5524229	21	1 7.1	18.4
78056 2002 KP	16.6	X	19.51954	358.33479	329.30733	3.38491	0.1360521	0.32258013	2.1056086	21	11 1.5	18.6
78057 2002 KC_{2}	15.2	X	198.77230	62.93324	278.01586	14.36852	0.1705415	0.24087461	2.5582444	21	2 13.8	19.7
78058 2002 KF_{3}	15.4	X	73.04993	230.55676	75.17420	23.85168	0.2429283	0.27480159	2.3430950	21	12 15.9	19.0
78059 2002 KP_{3}	15.5	X	216.33546	305.16171	355.09271	2.02754	0.0356522	0.19453457	2.9498834	21	1 25.5	19.9
78060 2002 KS_{3}	14.3	X	169.65345	56.41607	219.58717	30.86888	0.2790093	0.23051927	2.6342959	21	—	—
78061 2002 KV_{5}	14.7	X	44.12985	74.75460	265.48696	8.02424	0.2749379	0.21826533	2.7319927	21	12 25.1	18.5
78062 2002 KB_{6}	15.1	X	226.65584	2.56234	288.61501	14.19633	0.1165530	0.23919057	2.5702380	21	1 15.5	19.2
78063 2002 KY_{8}	16.1	X	171.74912	258.19296	92.20902	9.17392	0.1333234	0.29599715	2.2298605	21	1 27.7	19.2
78064 2002 KJ_{10}	15.0	X	168.59356	120.48669	124.82186	2.12765	0.1420821	0.17955387	3.1117608	21	12 10.6	20.1
78065 2002 LC	16.2	X	23.06742	292.93031	121.90628	7.80960	0.0422076	0.28593291	2.2818826	21	—	—
78066 2002 LM	14.3	X	171.61661	63.56994	232.25987	29.96627	0.2753579	0.23102648	2.6304389	21	—	—
78067 2002 LN_{1}	14.6	X	68.86839	193.19011	98.03400	10.30015	0.0862844	0.17069324	3.2185370	21	10 26.7	19.3
78068 2002 LU_{3}	16.2	X	281.59640	127.89074	199.67176	2.98849	0.1185353	0.30999547	2.1622164	21	4 24.7	18.8
78069 2002 LU_{4}	15.8	X	25.80145	224.65591	88.66356	5.81306	0.2333100	0.26708966	2.3879836	21	10 31.9	18.3
78070 2002 LG_{5}	14.3	X	346.34006	81.56572	270.73291	13.40792	0.2579568	0.21034583	2.8001423	21	9 9.8	17.0
78071 Vicent	15.3	X	5.10549	143.89605	184.31286	5.52542	0.0832847	0.21646073	2.7471559	21	9 15.2	18.4
78072 2002 LY_{11}	14.4	X	54.41711	49.48921	238.99142	14.65529	0.2428068	0.21694078	2.7431017	21	10 27.7	18.3
78073 2002 LL_{12}	14.8	X	164.90680	220.74386	96.75407	10.78133	0.1335435	0.23711116	2.5852431	21	—	—
78074 2002 LV_{12}	14.9	X	126.83853	121.48842	219.58722	6.47677	0.2111607	0.23293819	2.6160272	21	—	—
78075 2002 LK_{13}	16.1	X	93.05182	261.25957	250.60645	22.81593	0.0264904	0.36218583	1.9491641	21	5 5.2	18.3
78076 2002 LS_{14}	15.4	X	276.42879	335.46257	264.38188	9.68714	0.1716504	0.24513256	2.5285335	21	—	—
78077 2002 LV_{14}	15.6	X	175.27227	35.63244	258.89154	12.05520	0.1664726	0.23635352	2.5907649	21	—	—
78078 2002 LB_{17}	16.1	X	185.00715	10.90588	269.77489	5.04913	0.1799292	0.28726710	2.2748117	21	—	—
78079 2002 LK_{18}	15.9	X	119.27192	183.26045	78.34015	7.18578	0.1102842	0.27630604	2.3345820	21	11 27.8	19.3
78080 2002 LB_{20}	14.8	X	213.73990	221.21435	83.73187	12.14695	0.1806174	0.24037027	2.5618216	21	1 22.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78081 2002 LD_{20}	16.2	X	63.57715	237.17805	77.74113	7.36680	0.1252366	0.27206559	2.3587775	21	12 5.8	19.2
78082 2002 LS_{21}	14.5	X	126.85655	52.93386	266.31520	11.93899	0.1880006	0.22761098	2.6566881	21	—	—
78083 2002 LX_{21}	15.0	X	171.36297	222.19198	55.86602	2.09504	0.1197626	0.18270818	3.0758422	21	—	—
78084 2002 LO_{23}	16.0	X	168.98546	165.84504	97.40228	7.94093	0.1375763	0.28109190	2.3080072	21	—	—
78085 2002 LV_{23}	14.9	X	152.90783	13.36900	285.38021	24.90743	0.2230771	0.28156183	2.3054384	21	—	—
78086 2002 LM_{25}	15.3	X	192.72382	116.13106	210.10949	9.37866	0.2238056	0.24142452	2.5543582	21	1 27.1	19.8
78087 2002 LN_{25}	14.8	X	247.79657	49.51815	220.08597	10.04267	0.0526174	0.19298140	2.9656900	21	1 19.9	19.3
78088 2002 LB_{26}	16.3	X	111.50887	127.68872	215.21373	6.32100	0.1313018	0.28634913	2.2796708	21	—	—
78089 2002 LL_{26}	15.5	X	347.76316	114.95304	112.69124	3.97860	0.1090749	0.30424903	2.1893570	21	3 12.6	17.5
78090 2002 LF_{29}	14.9	X	145.63434	38.59691	263.43874	13.20349	0.1213355	0.22789280	2.6544975	21	—	—
78091 2002 LC_{30}	15.3	X	302.94964	358.12949	248.04087	8.47746	0.1446580	0.24573061	2.5244293	21	2 1.8	19.0
78092 2002 LD_{30}	14.3	X	199.98114	45.65953	286.28671	9.36763	0.2054993	0.18656093	3.0333481	21	2 13.9	19.6
78093 2002 LZ_{31}	14.8	X	356.70735	226.40031	131.43434	11.08453	0.2615623	0.21196925	2.7858270	21	11 1.9	17.4
78094 2002 LD_{32}	13.8	X	91.18849	251.07880	117.64814	13.23722	0.2127214	0.17675561	3.1445167	21	—	—
78095 2002 LN_{33}	15.5	X	6.20893	21.55378	274.53546	8.45644	0.2530832	0.26389554	2.4072139	21	8 15.8	17.1
78096 2002 LO_{34}	15.5	X	7.81266	98.01553	28.43086	4.94390	0.0414796	0.29397497	2.2400746	21	—	—
78097 2002 LN_{36}	13.9	X	133.35597	57.60959	268.53236	15.49180	0.2218616	0.17604216	3.1530069	21	—	—
78098 2002 LF_{37}	14.2	X	127.70807	194.06906	128.60904	14.12145	0.0954694	0.17756843	3.1349134	21	—	—
78099 2002 LV_{37}	14.4	X	162.93171	225.93047	164.23582	15.43318	0.1402595	0.24312704	2.5424195	21	3 18.0	18.2
78100 2002 LL_{41}	15.2	X	171.51518	193.60183	152.52200	9.83721	0.2738042	0.18676779	3.0311079	21	2 13.5	20.6
78101 2002 LB_{46}	15.0	X	91.72688	48.35909	227.95045	12.56713	0.1449972	0.21958074	2.7210711	21	11 12.2	18.9
78102 2002 LE_{46}	14.9	X	46.97125	166.93166	127.53865	12.84747	0.1535304	0.21796370	2.7345126	21	10 20.2	18.7
78103 2002 LP_{46}	14.3	X	172.39056	54.53259	243.77978	16.26020	0.2094790	0.18048762	3.1010191	21	—	—
78104 2002 LS_{46}	14.9	X	172.41479	186.01340	122.14232	14.18788	0.2727618	0.23656884	2.5891926	21	—	—
78105 2002 LM_{47}	15.3	X	20.88374	124.51340	159.17224	13.19244	0.1776334	0.21284157	2.7782101	21	8 19.2	18.2
78106 2002 LE_{49}	15.9	X	32.28929	239.54791	2.88471	2.93072	0.0976775	0.31312453	2.1477876	21	7 2.8	17.7
78107 2002 LC_{51}	14.2	X	202.18521	160.52498	223.77932	9.82143	0.1197363	0.19322251	2.9632224	21	4 19.7	18.9
78108 2002 LW_{51}	15.7	X	171.15721	220.16417	110.45743	12.76286	0.0783627	0.24235333	2.5478277	21	1 5.1	19.4
78109 2002 LK_{58}	16.0	X	259.48312	212.12676	52.86970	6.60094	0.1513939	0.29422225	2.2388193	21	1 5.7	19.5
78110 2002 MD	15.9	X	58.96748	232.88004	121.95560	7.59014	0.1338477	0.27538616	2.3397779	21	—	—
78111 2002 MO_{1}	14.7	X	128.21020	227.00976	168.33937	17.69335	0.2013911	0.23925020	2.5698110	21	2 20.9	18.5
78112 2002 MR_{2}	14.5	X	4.45534	355.82019	301.80279	11.71293	0.2196685	0.20943529	2.8082524	21	8 7.2	16.9
78113 2002 MC_{3}	14.7	X	237.72069	231.06744	83.60852	14.39106	0.1581208	0.24393876	2.5367763	21	2 28.3	19.0
78114 2002 MO_{4}	15.4	X	2.84772	304.82451	141.12460	13.88385	0.1264592	0.22848158	2.6499352	21	—	—
78115 Skiantonucci	14.7	X	86.26956	37.33435	356.32613	9.88929	0.0611180	0.17978390	3.1091059	21	—	—
78116 2002 NB	14.5	X	82.33241	128.88018	273.93156	15.31228	0.2165883	0.18038787	3.1021622	21	1 15.5	18.5
78117 2002 NR	15.1	X	181.14038	260.97270	80.41941	3.77785	0.3233987	0.23865155	2.5741067	21	2 13.4	19.9
78118 Bharat	14.9	X	86.66131	218.10359	190.64217	16.78866	0.1893408	0.23510045	2.5999625	21	1 10.7	18.2
78119 2002 NK_{1}	15.2	X	181.77577	231.13458	128.56351	14.61076	0.2091904	0.23943155	2.5685131	21	3 4.1	19.6
78120 2002 NN_{1}	15.9	X	81.75081	46.27117	285.88970	2.16235	0.0752187	0.22311643	2.6922477	21	—	—
78121 2002 NF_{4}	15.6	X	161.66550	181.45909	162.47477	0.38069	0.1426759	0.18437087	3.0573220	21	1 26.9	20.2
78122 2002 NG_{4}	15.0	X	120.73553	178.40901	145.34067	2.49630	0.1895143	0.17549535	3.1595530	21	—	—
78123 Dimare	16.2	X	330.81657	258.03458	127.79943	6.31572	0.1137345	0.26629326	2.3927423	21	10 21.1	18.6
78124 Cicalò	17.2	X	347.01813	328.18127	184.86941	1.79201	0.0880350	0.28889444	2.2662610	21	—	—
78125 Salimbeni	14.9	X	57.71239	73.41605	298.84259	16.10021	0.1601356	0.22359717	2.6883874	21	—	—
78126 2002 NU_{9}	15.9	X	32.59798	195.64698	165.68885	4.71950	0.1290982	0.22045540	2.7138691	21	12 17.1	19.4
78127 2002 NW_{10}	14.3	X	344.71172	180.49635	252.31309	4.59404	0.0999163	0.17274406	3.1930126	21	12 21.9	18.4
78128 2002 NT_{11}	14.7	X	200.56256	52.04194	291.37996	2.04572	0.1605566	0.18941262	3.0028256	21	3 1.0	19.6
78129 2002 NC_{12}	17.0	X	182.31992	330.88378	271.47835	2.46676	0.1899927	0.28073247	2.3099768	21	12 31.9	20.6
78130 2002 NL_{12}	15.4	X	264.79230	136.74735	115.17416	5.81159	0.2006201	0.24170303	2.5523956	21	—	—
78131 2002 NV_{12}	15.5	X	327.07717	81.90801	288.95464	10.74155	0.1926245	0.21048182	2.7989362	21	8 28.8	18.5
78132 2002 NW_{12}	15.7	X	240.98637	149.73327	131.28549	8.49758	0.1496706	0.24071950	2.5593432	21	1 16.1	19.6
78133 2002 NQ_{13}	13.8	X	116.34787	232.79824	131.55006	13.88958	0.3028362	0.12568554	3.9471095	21	2 1.7	19.9
78134 2002 NA_{14}	15.2	X	185.72746	152.88681	123.88060	15.03872	0.1410248	0.23179550	2.6246177	21	—	—
78135 2002 NE_{14}	16.5	X	84.48545	16.20243	300.22108	1.71260	0.2164799	0.27327437	2.3518166	21	—	—
78136 2002 NF_{14}	15.0	X	210.05931	205.56677	148.63985	2.03357	0.1655479	0.19154298	2.9805190	21	3 22.7	19.9
78137 2002 NE_{15}	14.6	X	156.95769	272.02737	62.36864	1.33008	0.1617862	0.18157389	3.0886388	21	1 13.9	19.5
78138 2002 NP_{15}	16.4	X	137.25818	344.88561	359.74676	4.99387	0.1751487	0.28419059	2.2911996	21	—	—
78139 2002 NL_{16}	15.2	X	334.54682	192.66613	155.23151	4.02747	0.1060082	0.21001774	2.8030579	21	8 21.8	18.5
78140 2002 NR_{16}	15.8	X	326.84693	296.04330	61.05396	3.74312	0.1907291	0.26117768	2.4238850	21	8 20.6	17.7
78141 2002 NY_{16}	16.1	X	53.60535	241.45371	76.16353	3.39717	0.2287301	0.26945760	2.3739729	21	12 10.6	19.5
78142 2002 NR_{18}	14.0	X	353.15568	223.80143	226.91230	4.20803	0.1146189	0.17544622	3.1601428	21	—	—
78143 2002 NB_{20}	15.3	X	182.14508	150.73719	136.95816	13.60326	0.1378321	0.23186850	2.6240668	21	—	—
78144 2002 NU_{20}	14.3	X	92.36401	130.46369	282.21701	13.06066	0.1093517	0.18229820	3.0804522	21	1 25.7	18.6
78145 2002 NL_{21}	14.8	X	266.89556	55.90382	263.56188	10.02266	0.0796800	0.19658719	2.9293139	21	4 7.2	19.2
78146 2002 NF_{22}	15.6	X	325.54137	225.71923	137.86307	6.80602	0.0919367	0.26169760	2.4206736	21	9 5.4	18.0
78147 2002 NH_{22}	14.5	X	198.64750	87.29075	296.08257	7.77502	0.1480041	0.19343632	2.9610384	21	4 11.9	19.5
78148 2002 NB_{24}	13.8	X	184.87807	17.86088	302.05965	11.00957	0.1216250	0.18295038	3.0731269	21	1 19.9	18.6
78149 2002 NN_{24}	14.1	X	49.94365	181.23971	256.72589	6.38044	0.0305722	0.18020654	3.1042429	21	—	—
78150 2002 NO_{24}	13.7	X	107.48391	204.83571	142.94808	28.72198	0.1716014	0.17453470	3.1711359	21	—	—
78151 2002 NT_{24}	14.5	X	202.12995	355.08038	297.77054	12.33148	0.0751798	0.18202357	3.0835498	21	1 4.5	19.3
78152 2002 NV_{24}	13.6	X	102.03612	277.53627	151.62821	15.61788	0.3409623	0.18183780	3.0856496	21	4 5.2	18.4
78153 2002 NX_{24}	15.4	X	179.90465	339.13263	287.16233	11.22249	0.2118528	0.22934706	2.6432644	21	—	—
78154 2002 NY_{25}	13.6	X	158.98023	292.65574	319.07228	20.62419	0.0240664	0.16874305	3.2432876	21	12 8.8	18.7
78155 2002 NA_{26}	15.2	X	335.03628	41.99174	308.94886	6.78495	0.1365666	0.25959800	2.4337081	21	8 28.6	17.4
78156 2002 NJ_{27}	14.7	X	348.54191	52.85685	327.84605	16.23598	0.1457100	0.21164670	2.7886566	21	10 23.8	18.1
78157 2002 NQ_{27}	15.0	X	147.75555	70.42294	228.88775	4.33121	0.1793714	0.17557692	3.1585743	21	—	—
78158 2002 NZ_{27}	15.0	X	151.93144	349.10976	310.73351	13.40250	0.2416728	0.22637468	2.6663520	21	—	—
78159 2002 NA_{28}	13.1	X	130.34428	113.25806	251.79530	7.36947	0.1586606	0.12377911	3.9875347	21	1 29.7	19.1
78160 2002 ND_{28}	13.7	X	105.12547	39.73789	350.59921	23.87533	0.2313530	0.17470148	3.1691174	21	2 12.8	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78161 2002 NF_{28}	14.9	X	107.27570	11.79051	314.22979	12.30306	0.2731853	0.22216307	2.6999443	21	—	—
78162 2002 NR_{28}	15.2	X	354.80860	239.21042	116.03069	7.56148	0.0653941	0.21504667	2.7591855	21	10 9.3	18.7
78163 2002 NX_{28}	14.2	X	20.61383	123.96572	317.23250	9.55002	0.0555737	0.17792363	3.1307397	21	—	—
78164 2002 NA_{29}	14.8	X	223.08344	310.46074	75.72175	2.97698	0.0799841	0.19883819	2.9071639	21	5 15.9	19.2
78165 2002 NS_{29}	15.2	X	118.26397	219.58113	164.18933	9.15334	0.0988532	0.23531055	2.5984146	21	1 11.8	18.7
78166 2002 NP_{30}	14.6	X	68.66265	295.93559	272.87563	13.82869	0.0930698	0.20503824	2.8482590	21	7 10.3	18.4
78167 2002 NV_{30}	15.5	X	251.45659	131.44874	293.50348	1.84618	0.0520867	0.20946901	2.8079511	21	8 10.8	19.4
78168 2002 NZ_{30}	14.7	X	126.06785	328.29628	105.70503	11.21031	0.0784436	0.19285284	2.9670078	21	4 5.3	19.2
78169 2002 NB_{31}	15.5	X	177.55412	207.99271	108.54877	6.27374	0.2010738	0.23533659	2.5982229	21	1 5.7	19.8
78170 2002 NL_{31}	16.2	X	202.08104	119.71394	181.60452	1.61137	0.1174759	0.23742699	2.5829500	21	1 4.9	20.2
78171 2002 NH_{32}	14.6	X	111.45856	162.84137	258.89434	17.38419	0.1695583	0.23549350	2.5970687	21	2 22.9	18.6
78172 2002 NK_{32}	15.5	X	177.67947	143.43060	229.04839	13.22195	0.2000404	0.23841434	2.5758138	21	3 7.9	20.0
78173 2002 NP_{32}	14.1	X	141.57829	152.92924	238.58437	9.38311	0.1376406	0.18262685	3.0767554	21	2 27.7	19.0
78174 2002 NQ_{32}	14.9	X	208.11699	71.75956	294.07079	13.60184	0.1316220	0.24127531	2.5554112	21	3 22.6	19.2
78175 2002 NB_{33}	13.4	X	134.07313	23.32141	324.99821	21.89048	0.0895549	0.17423962	3.1747152	21	1 4.8	18.3
78176 2002 NE_{33}	14.2	X	189.29315	64.60715	291.59520	8.22843	0.2239316	0.18402032	3.0612035	21	3 5.2	19.7
78177 2002 NH_{33}	14.3	X	32.40886	89.71080	274.70219	11.57009	0.1608198	0.21615796	2.7497205	21	12 24.3	17.7
78178 2002 NZ_{33}	15.8	X	198.91579	131.25629	303.96292	6.01875	0.1009373	0.25418069	2.4681659	21	6 18.8	19.4
78179 2002 ND_{34}	15.7	X	129.97193	185.08891	170.54220	0.61212	0.1949359	0.17941938	3.1133156	21	1 15.9	20.5
78180 2002 NU_{34}	14.8	X	181.19287	137.10117	249.49641	8.51916	0.0907487	0.19286527	2.9668804	21	3 29.8	19.5
78181 2002 NY_{34}	15.5	X	348.13484	139.81068	208.46084	7.18695	0.1074967	0.21128225	2.7918626	21	9 13.2	18.7
78182 2002 NQ_{35}	14.4	X	78.30221	219.18582	148.71897	16.92599	0.1350173	0.17361837	3.1822840	21	—	—
78183 2002 NA_{36}	14.5	X	183.39008	118.77422	175.91449	11.01118	0.0924461	0.18009718	3.1054993	21	—	—
78184 2002 NH_{37}	14.8	X	29.91673	149.89136	269.84378	12.47593	0.2386724	0.22415602	2.6839172	21	—	—
78185 2002 NE_{38}	14.7	X	212.05847	157.38924	177.59101	10.63684	0.0973291	0.18894140	3.0078162	21	3 1.7	19.4
78186 2002 NH_{38}	13.7	X	56.00944	72.79051	282.18123	13.60736	0.0307285	0.16897146	3.2403641	21	12 14.2	18.3
78187 2002 NY_{38}	15.1	X	75.15817	157.63543	189.85314	14.68165	0.0323531	0.22712706	2.6604604	21	—	—
78188 2002 NE_{39}	13.8	X	133.42887	75.05682	285.77756	21.12117	0.0450382	0.17930737	3.1146120	21	1 7.5	18.1
78189 2002 NO_{40}	15.2	X	271.94461	237.46568	82.33080	3.01930	0.0568877	0.19691838	2.9260285	21	4 22.0	19.3
78190 2002 NP_{40}	15.1	X	190.06648	69.54379	262.86179	0.47530	0.0753553	0.18622152	3.0370327	21	2 5.9	19.5
78191 2002 NE_{41}	15.6	X	296.67831	275.76309	94.63857	7.17260	0.1483827	0.25834323	2.4415821	21	7 17.1	18.2
78192 2002 NU_{41}	15.2	X	358.23503	258.33909	94.75312	5.28304	0.1156546	0.21301819	2.7766742	21	10 13.4	18.4
78193 2002 NM_{42}	15.2	X	55.82976	148.68038	324.87891	12.82671	0.1278876	0.23858034	2.5746189	21	2 10.3	17.8
78194 2002 ND_{43}	14.7	X	170.16748	250.85369	78.62005	5.97600	0.1104051	0.18286141	3.0741237	21	1 16.9	19.4
78195 2002 NH_{43}	15.1	X	73.81017	306.02622	101.27149	13.63838	0.2583802	0.22879149	2.6475417	21	—	—
78196 2002 NU_{43}	16.0	X	84.63314	160.26848	218.38520	4.20202	0.1379767	0.22948259	2.6422235	21	—	—
78197 2002 NF_{44}	15.5	X	229.40891	83.19633	203.49401	2.13160	0.1170413	0.24033020	2.5621063	21	1 12.8	19.5
78198 2002 NN_{47}	14.7	X	157.17676	137.99606	267.92858	9.40930	0.1082965	0.19251296	2.9704989	21	3 28.6	19.4
78199 2002 NP_{48}	15.1	X	328.46520	100.13150	300.56974	7.95566	0.1685195	0.21426196	2.7659182	21	10 18.2	18.1
78200 2002 NU_{48}	14.5	X	201.60747	302.71938	284.25876	7.93027	0.0757042	0.17468794	3.1692812	21	12 24.3	19.1
78201 2002 NM_{49}	15.2	X	233.04471	258.57387	89.37091	1.29537	0.0368311	0.19539424	2.9412247	21	4 12.8	19.4
78202 2002 NG_{50}	14.2	X	112.50453	69.84630	324.16924	8.67117	0.1199888	0.18312595	3.0711624	21	2 1.8	18.5
78203 2002 NX_{50}	14.0	X	34.89708	261.59109	105.96947	16.99222	0.0740458	0.16945889	3.2341474	21	12 11.1	18.6
78204 2002 NZ_{50}	16.1	X	60.55725	229.02902	90.99433	7.27192	0.1544325	0.27054313	2.3676184	21	12 12.5	19.1
78205 2002 NF_{51}	14.8	X	139.22348	251.87807	133.07411	10.93912	0.1268548	0.18494205	3.0510239	21	2 21.5	19.4
78206 2002 NO_{51}	14.6	X	130.63887	277.00509	98.09526	5.99763	0.1860768	0.18256033	3.0775026	21	2 8.1	19.2
78207 2002 NU_{55}	15.2	X	359.17808	135.53926	257.25412	6.16290	0.1418038	0.21826305	2.7320118	21	12 8.8	18.3
78208 2002 NS_{56}	15.3	X	168.44440	189.49323	165.55879	15.39009	0.1223411	0.24031444	2.5622183	21	2 4.1	19.3
78209 2002 OA	14.9	X	200.22310	212.79668	99.81883	6.05089	0.1456133	0.18651019	3.0338982	21	1 25.9	19.9
78210 2002 OT	14.7	X	129.50450	144.41296	211.94058	8.79750	0.2054771	0.17998814	3.1067534	21	1 15.6	19.6
78211 2002 OY	14.4	X	134.24024	113.63349	248.89434	10.33235	0.0952395	0.18262471	3.0767794	21	1 14.2	19.0
78212 2002 OB_{1}	14.7	X	155.10979	145.54946	226.16105	9.73310	0.0753128	0.18699725	3.0286278	21	2 12.1	19.4
78213 2002 OK_{1}	14.5	X	137.82983	30.50506	267.33324	13.38961	0.0513955	0.17326589	3.1865984	21	—	—
78214 2002 OC_{2}	15.0	X	179.33540	57.87299	281.87051	13.45566	0.1344781	0.23585577	2.5944087	21	1 27.8	19.0
78215 2002 OO_{2}	14.6	X	85.19088	81.75443	274.33157	9.56505	0.1296599	0.22328314	2.6909075	21	—	—
78216 2002 OX_{2}	15.4	X	41.47011	121.45988	222.13704	6.24968	0.1353173	0.26766773	2.3845442	21	12 16.7	18.4
78217 2002 OP_{4}	15.5	X	171.46407	176.53668	300.38714	11.55272	0.1613415	0.25592155	2.4569603	21	7 15.7	19.2
78218 2002 OZ_{4}	14.9	X	85.47196	190.68757	185.65374	15.05277	0.0657609	0.17696632	3.1420202	21	—	—
78219 2002 OB_{5}	15.8	X	117.29389	226.69775	189.66229	13.72929	0.1846576	0.23726801	2.5841036	21	3 4.3	19.5
78220 2002 OO_{7}	14.8	X	260.49851	157.46437	195.00472	10.38928	0.1212695	0.19718116	2.9234283	21	5 11.9	19.2
78221 Leonmow	15.4	X	144.68242	251.14478	124.78870	11.34060	0.2206851	0.23601852	2.5932158	21	2 19.3	19.4
78222 2002 OG_{8}	15.7	X	86.18154	11.68253	297.40624	1.59771	0.0721217	0.22066674	2.7121360	21	12 8.7	19.6
78223 2002 OV_{8}	15.4	X	249.64922	256.90349	238.85558	4.48551	0.0131170	0.21997396	2.7178274	21	11 15.7	19.0
78224 2002 OH_{10}	14.2	X	188.51218	86.90194	180.23412	15.47198	0.0363696	0.17527204	3.1622361	21	—	—
78225 2002 OS_{10}	14.5	X	272.30987	28.04488	310.88020	11.57954	0.1308478	0.19862646	2.9092295	21	4 30.7	19.0
78226 2002 ON_{11}	16.0	X	264.66412	201.89000	41.23942	4.30740	0.1699462	0.29143642	2.2530639	21	—	—
78227 2002 OV_{11}	15.5	X	289.45283	32.69783	217.93261	13.84740	0.1126538	0.24319691	2.5419325	21	1 26.1	19.4
78228 2002 OC_{13}	15.6	X	3.64496	252.80201	264.22825	13.18861	0.0471951	0.24004539	2.5641326	21	1 14.4	19.0
78229 2002 OG_{14}	15.5	X	74.91782	244.03047	182.79869	12.89550	0.1817576	0.23227943	2.6209710	21	1 15.2	18.6
78230 2002 OK_{14}	14.5	X	102.60468	203.98635	170.28545	15.65960	0.1156067	0.17768630	3.1335268	21	—	—
78231 2002 OK_{15}	14.6	X	91.65017	153.44586	216.44787	9.79907	0.2062114	0.17532119	3.1616450	21	—	—
78232 2002 OP_{15}	14.4	X	112.54605	176.72791	244.99795	10.49988	0.1248402	0.18599427	3.0395060	21	3 1.7	19.0
78233 2002 OB_{17}	14.7	X	143.98107	139.38541	234.24682	8.61895	0.0973862	0.18486269	3.0518970	21	2 5.5	19.3
78234 2002 OT_{17}	14.6	X	276.42921	43.51000	257.34297	8.99208	0.0844065	0.19294508	2.9660621	21	3 25.9	19.1
78235 2002 OS_{18}	15.1	X	32.24542	147.80954	275.51858	10.56921	0.1663711	0.22431119	2.6826793	21	—	—
78236 2002 OP_{19}	16.4	X	38.77198	318.98749	258.37421	4.83913	0.1047157	0.30564623	2.1826798	21	6 3.9	18.3
78237 2002 OL_{20}	15.2	X	211.02209	72.62321	256.67662	11.10337	0.0453696	0.19001746	2.9964500	21	2 18.3	19.8
78238 2002 OK_{21}	15.4	X	62.64913	332.87358	3.35130	3.14913	0.1863358	0.21915086	2.7246283	21	12 29.4	19.5
78239 2002 OF_{22}	15.4	X	123.79775	166.21841	177.50889	0.65010	0.1947429	0.17628437	3.1501182	21	—	—
78240 2002 ON_{22}	16.3	X	269.16933	335.84649	322.79999	5.06001	0.1415502	0.29741249	2.2227805	21	2 26.4	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78241 2002 OY_{22}	14.9	X	344.77293	17.81520	54.98067	10.87800	0.2921335	0.21890475	2.7266700	21	—	—
78242 2002 OW_{23}	13.0	X	119.41587	129.97100	277.38843	14.55719	0.2173245	0.17973837	3.1096310	21	3 1.9	18.0
78243 2002 PV	14.3	X	121.07579	148.52069	206.28513	23.45392	0.1007647	0.17740223	3.1368710	21	—	—
78244 2002 PU_{1}	16.3	X	202.71989	354.59737	318.51602	4.56010	0.2547006	0.28966521	2.2622390	21	1 17.5	20.0
78245 2002 PE_{3}	14.6	X	37.24132	188.38574	210.05261	13.41821	0.1126430	0.17059697	3.2197477	21	—	—
78246 2002 PH_{3}	14.2	X	93.09498	132.55042	240.45293	12.34341	0.0368846	0.17559174	3.1583966	21	—	—
78247 2002 PO_{3}	14.9	X	29.31016	257.29949	151.47466	11.28302	0.0382486	0.17439582	3.1728192	21	—	—
78248 2002 PY_{5}	14.9	X	160.58420	40.14540	211.45183	12.57715	0.0476863	0.16926748	3.2365851	21	12 10.6	19.9
78249 Capaccioni	15.0	X	75.07354	155.75003	296.59013	8.85819	0.0386126	0.18569558	3.0427644	21	2 11.3	19.2
78250 2002 PE_{9}	15.0	X	44.40919	189.33115	205.13934	4.67980	0.1701335	0.17203831	3.2017391	21	—	—
78251 2002 PM_{10}	14.5	X	49.74937	194.33290	245.03639	4.44785	0.1394922	0.17887915	3.1195808	21	1 1.9	18.2
78252 Priscio	14.2	X	93.79825	60.50358	298.80116	10.46823	0.0538530	0.17560086	3.1582872	21	—	—
78253 2002 PY_{12}	14.5	X	351.06272	274.38058	167.36118	10.24604	0.0404006	0.17232553	3.1981804	21	—	—
78254 2002 PJ_{13}	15.0	X	306.28256	103.45767	294.62201	16.15312	0.1896131	0.21102724	2.7941113	21	8 25.6	18.4
78255 2002 PE_{14}	15.4	X	273.73259	191.39136	234.33095	2.61839	0.0773450	0.21221649	2.7836629	21	9 5.7	19.0
78256 2002 PJ_{14}	15.5	X	58.24991	329.20102	125.58112	16.14472	0.0977616	0.23782674	2.5800548	21	1 16.8	18.3
78257 2002 PD_{15}	15.6	X	1.73930	220.86826	147.95039	2.33397	0.2311416	0.21475439	2.7616885	21	11 21.5	18.3
78258 2002 PO_{15}	15.6	X	352.97236	85.35191	195.21460	1.29477	0.0162052	0.20403068	2.8576283	21	6 22.1	19.4
78259 2002 PB_{16}	15.4	X	252.77887	128.59003	169.78645	2.09725	0.0882479	0.19188021	2.9770258	21	2 28.3	19.8
78260 2002 PP_{16}	16.0	X	192.22515	68.91002	212.00149	2.11177	0.0992411	0.23301843	2.6154266	21	—	—
78261 2002 PC_{19}	14.6	X	108.51366	227.83854	146.64164	10.90198	0.0447835	0.18052791	3.1005576	21	—	—
78262 2002 PN_{21}	15.5	X	336.08446	224.26810	202.19153	3.93633	0.0782059	0.22010351	2.7167608	21	12 12.0	18.7
78263 2002 PT_{21}	15.5	X	36.52352	55.69905	266.92988	4.15725	0.1035690	0.21485386	2.7608360	21	10 27.1	19.0
78264 2002 PZ_{23}	15.8	X	334.09367	126.78064	294.76904	7.43937	0.1116464	0.27034090	2.3687990	21	12 17.1	18.1
78265 2002 PA_{24}	16.1	X	116.12641	191.22966	224.59232	1.15137	0.1694485	0.23716039	2.5848853	21	3 1.8	19.5
78266 2002 PB_{26}	15.9	X	192.88244	13.71665	296.41987	4.63645	0.2015796	0.28788480	2.2715566	21	1 3.3	19.5
78267 2002 PR_{26}	14.8	X	249.68468	155.57942	151.94731	10.59676	0.1077625	0.19136775	2.9823381	21	3 7.7	19.2
78268 2002 PC_{27}	15.1	X	254.50085	268.36738	313.55699	8.87496	0.0327746	0.17980006	3.1089196	21	—	—
78269 2002 PM_{27}	15.2	X	324.81246	351.33308	148.70300	14.61940	0.1028853	0.22978038	2.6399402	21	—	—
78270 2002 PO_{28}	15.5	X	358.65734	100.52193	282.59606	2.42956	0.1002426	0.21626121	2.7488453	21	11 19.7	18.8
78271 2002 PX_{28}	15.8	X	335.64296	248.68145	181.60264	2.98862	0.0701107	0.22001238	2.7175110	21	12 15.9	19.1
78272 2002 PE_{29}	16.1	X	104.27905	188.68774	232.48064	1.35123	0.1510634	0.23597599	2.5935274	21	2 18.7	19.3
78273 2002 PM_{30}	16.4	X	347.01992	142.02720	246.58681	1.36392	0.1351772	0.26678208	2.3898186	21	11 23.3	18.4
78274 2002 PR_{30}	16.0	X	7.29630	126.47959	308.70884	12.03508	0.1888758	0.22323767	2.6912728	21	—	—
78275 2002 PU_{30}	14.8	X	173.16558	188.99030	169.05683	5.04094	0.2092461	0.18534934	3.0465527	21	2 25.5	19.8
78276 2002 PO_{31}	14.8	X	260.09276	81.14234	258.33914	0.86104	0.0952755	0.19653754	2.9298072	21	4 26.5	18.9
78277 2002 PB_{32}	15.8	X	276.07207	165.17182	221.02936	1.18459	0.2189684	0.20299362	2.8673528	21	6 27.7	19.8
78278 2002 PX_{35}	15.3	X	143.00630	85.57377	185.50401	4.65461	0.1385184	0.17102543	3.2143680	21	12 16.5	20.5
78279 2002 PN_{38}	15.9	X	81.32977	73.68030	279.36479	0.89281	0.0996119	0.22491230	2.6778973	21	—	—
78280 2002 PG_{39}	16.3	X	232.16910	255.80710	149.23202	1.14459	0.1770079	0.25325931	2.4741485	21	6 9.2	20.1
78281 2002 PL_{39}	15.9	X	131.04159	183.59033	156.53898	1.47046	0.1750661	0.17788042	3.1312466	21	—	—
78282 2002 PF_{40}	15.1	X	255.95020	309.47455	51.09324	2.84630	0.1070324	0.19896733	2.9059059	21	5 17.1	19.2
78283 2002 PR_{42}	13.8	X	84.97364	18.25734	30.57419	15.14624	0.1659157	0.17363344	3.1820998	21	1 28.5	18.2
78284 2002 PC_{43}	15.2	X	299.86573	220.24936	224.99244	2.90164	0.0444593	0.21753934	2.7380677	21	11 13.5	18.5
78285 2002 PV_{45}	14.7	X	158.04514	90.75250	304.97482	6.34068	0.2044169	0.23654724	2.5893502	21	3 21.4	19.0
78286 2002 PK_{46}	13.7	X	50.40878	109.96290	324.19499	17.16566	0.0762631	0.17511698	3.1641025	21	—	—
78287 2002 PN_{49}	15.0	X	54.27554	138.61160	297.16057	11.84118	0.1484760	0.22794834	2.6540662	21	—	—
78288 2002 PC_{50}	14.5	X	82.71273	340.17321	26.85566	5.56924	0.1729038	0.22023017	2.7157190	21	—	—
78289 2002 PG_{50}	15.3	X	33.12960	204.63939	143.06134	5.09309	0.2162472	0.21346751	2.7727765	21	12 12.3	18.8
78290 2002 PM_{50}	16.1	X	17.36351	261.74607	48.46264	1.42529	0.2160651	0.25925216	2.4358720	21	10 5.2	18.1
78291 2002 PH_{51}	15.9	X	286.72234	269.86895	81.70775	3.54420	0.1307905	0.20293575	2.8678978	21	6 8.9	19.7
78292 2002 PQ_{52}	14.2	X	71.12417	261.48812	112.13979	7.37315	0.0998236	0.17338730	3.1851106	21	—	—
78293 2002 PC_{53}	15.9	X	354.35990	109.12213	248.74951	0.13272	0.1311184	0.26398049	2.4066974	21	10 21.1	18.2
78294 2002 PP_{53}	15.4	X	75.22369	230.08884	122.83241	6.86022	0.1536184	0.22250845	2.6971497	21	—	—
78295 2002 PQ_{53}	15.2	X	27.99741	303.50190	56.22814	2.56433	0.1189085	0.21677606	2.7444912	21	12 5.9	18.6
78296 2002 PT_{53}	14.5	X	132.78622	257.46949	131.37353	10.91232	0.1275360	0.18335311	3.0686253	21	2 19.7	19.0
78297 2002 PH_{54}	15.5	X	56.56432	35.79207	330.23221	12.29246	0.1781370	0.22191580	2.7019496	21	—	—
78298 2002 PL_{54}	15.9	X	56.23815	253.72451	59.29392	3.20783	0.2098639	0.26529635	2.3987328	21	12 4.4	19.1
78299 2002 PF_{55}	14.4	X	13.12158	74.37944	298.56064	9.70136	0.2096588	0.21428577	2.7657133	21	12 13.9	17.6
78300 2002 PK_{55}	13.8	X	19.07934	91.70297	321.24879	20.77076	0.0119253	0.17056102	3.2202002	21	—	—
78301 2002 PY_{56}	14.2	X	92.20453	104.16907	267.99578	3.66703	0.1643421	0.17363080	3.1821321	21	—	—
78302 2002 PW_{57}	15.2	X	126.87461	91.92899	320.99143	12.84331	0.2268650	0.23543784	2.5974780	21	3 13.5	19.2
78303 2002 PZ_{57}	15.0	X	207.11312	65.07444	310.34334	10.06388	0.1990255	0.24156006	2.5534026	21	4 4.4	19.6
78304 2002 PG_{58}	14.6	X	335.05712	204.84110	198.49760	8.89251	0.1584891	0.21275362	2.7789757	21	11 9.9	17.5
78305 2002 PT_{58}	14.6	X	261.64942	37.51369	341.72566	13.06184	0.0675249	0.19994300	2.8964447	21	6 23.2	19.0
78306 2002 PY_{61}	14.5	X	61.93933	235.88296	128.70147	10.98000	0.1818735	0.17010490	3.2259540	21	—	—
78307 2002 PS_{63}	16.0	X	69.42751	5.45716	337.26695	6.88693	0.1290577	0.27292401	2.3538289	21	—	—
78308 2002 PM_{64}	15.7	X	120.88852	26.46354	210.66493	2.55760	0.0389000	0.21617039	2.7496152	21	10 16.2	19.5
78309 Alessielisa	15.6	X	126.44635	301.72583	145.20981	12.45192	0.0927963	0.24632792	2.5203467	21	4 17.4	19.3
78310 Spoto	16.1	X	255.49576	110.41252	284.52255	5.41196	0.1297000	0.25497126	2.4630614	21	6 26.6	19.3
78311 2002 PB_{66}	15.7	X	84.72538	93.94157	300.32722	10.75345	0.0816841	0.23252688	2.6191112	21	—	—
78312 2002 PN_{68}	14.8	X	121.02103	175.99688	221.30185	1.12007	0.1400858	0.18308413	3.0716301	21	2 16.9	19.2
78313 2002 PG_{69}	14.7	X	260.27400	115.92060	223.76047	11.19457	0.0624715	0.19507040	2.9444790	21	5 1.2	18.9
78314 2002 PR_{72}	15.3	X	53.01210	331.50324	229.27774	10.78762	0.0687136	0.20026665	2.8933233	21	6 4.7	19.1
78315 2002 PB_{73}	15.3	X	37.19010	168.72854	269.70869	13.00247	0.0809300	0.23058263	2.6338133	21	—	—
78316 2002 PG_{73}	14.4	X	46.46587	265.05397	227.76356	6.60732	0.0325694	0.18738135	3.0244876	21	2 22.2	18.6
78317 2002 PU_{73}	14.8	X	73.05721	202.56201	228.93152	10.74306	0.1515428	0.18056504	3.1001327	21	1 26.8	18.8
78318 2002 PX_{73}	14.4	X	86.20751	168.87255	219.51143	10.82225	0.1439038	0.17655237	3.1469296	21	—	—
78319 2002 PW_{75}	15.0	X	228.01740	213.72916	68.02991	2.43638	0.0996436	0.18528210	3.0472897	21	1 15.9	19.8
78320 2002 PZ_{77}	15.4	X	162.13786	345.97580	47.89437	7.00045	0.1155470	0.23995774	2.5647569	21	3 22.2	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78321 2002 PC_{79}	15.3	X	278.12538	272.39793	88.25178	6.78757	0.1766284	0.25300349	2.4758161	21	6 1.5	18.6
78322 2002 PD_{79}	14.6	X	176.42157	292.32058	109.16945	11.24619	0.1073086	0.19197343	2.9760619	21	4 21.5	19.4
78323 2002 PM_{79}	14.6	X	123.06838	330.61723	46.31911	6.67456	0.1692654	0.18021577	3.1041369	21	2 1.9	19.2
78324 2002 PP_{81}	15.5	X	356.80585	188.83943	157.41540	2.51848	0.1924466	0.26244364	2.4160839	21	10 15.2	17.3
78325 2002 PS_{81}	15.1	X	61.45016	29.80713	314.83209	8.24568	0.1819257	0.21949662	2.7217663	21	—	—
78326 2002 PQ_{82}	14.4	X	276.68562	130.91480	345.75685	11.27077	0.0172007	0.21819871	2.7325488	21	11 22.0	18.3
78327 2002 PZ_{82}	15.2	X	270.24614	22.60142	355.95328	1.73351	0.1655386	0.20130106	2.8834030	21	6 18.3	19.3
78328 2002 PK_{83}	13.9	X	126.37072	22.72547	333.96460	16.86721	0.1573818	0.17744432	3.1363749	21	1 13.3	18.7
78329 2002 PV_{83}	15.3	X	133.27609	220.99690	140.80327	15.55780	0.1744585	0.23109468	2.6299213	21	1 14.6	19.2
78330 2002 PY_{83}	14.7	X	139.73881	335.04821	0.28937	3.32317	0.1763071	0.17673029	3.1448171	21	1 1.0	19.5
78331 2002 PQ_{84}	15.0	X	7.42388	226.79947	136.72847	9.69800	0.2095121	0.21279065	2.7786532	21	11 23.8	18.1
78332 2002 PZ_{84}	14.6	X	349.39767	246.19015	133.60516	8.87742	0.2120485	0.21148211	2.7901034	21	11 10.7	17.4
78333 2002 PR_{85}	14.8	X	95.83240	88.37096	215.73097	12.49612	0.1857896	0.22350029	2.6891642	21	12 22.4	19.3
78334 2002 PU_{85}	14.7	X	52.52009	158.38618	219.82601	3.21104	0.1216250	0.17016175	3.2252354	21	—	—
78335 2002 PP_{86}	15.8	X	68.54998	187.15946	141.72754	2.43447	0.2175769	0.27147102	2.3622203	21	—	—
78336 2002 PX_{87}	15.4	X	28.18699	54.72477	318.77313	7.91133	0.1579007	0.21743843	2.7389148	21	12 30.7	19.0
78337 2002 PG_{88}	14.7	X	239.78198	236.34322	142.20862	2.52596	0.0842023	0.19677164	2.9274830	21	5 24.9	19.1
78338 2002 PR_{88}	15.6	X	120.72629	32.96098	55.05951	4.43845	0.1899956	0.23928675	2.5695493	21	4 21.6	19.3
78339 2002 PU_{88}	15.6	X	85.62084	98.99925	14.62745	7.43353	0.1282084	0.23925946	2.5697446	21	3 31.4	18.6
78340 2002 PS_{89}	14.8	X	173.95797	98.85533	211.77848	15.34987	0.0850789	0.17906183	3.1174587	21	—	—
78341 2002 PA_{90}	14.8	X	246.42267	314.46092	273.54567	13.26534	0.0892487	0.22991345	2.6389215	21	—	—
78342 2002 PM_{91}	15.0	X	301.88557	230.76107	109.43334	7.86141	0.1153062	0.20260725	2.8709969	21	6 17.8	18.6
78343 2002 PY_{92}	15.2	X	247.72396	15.98566	254.72427	12.61826	0.1717569	0.23759901	2.5817031	21	1 7.9	19.5
78344 2002 PA_{93}	14.2	X	12.02004	224.12661	252.22960	16.25096	0.1117470	0.17700694	3.1415394	21	—	—
78345 2002 PW_{93}	14.2	X	154.43135	176.06551	121.67791	15.96153	0.0616004	0.17425338	3.1745481	21	—	—
78346 2002 PY_{93}	15.0	X	74.06072	13.02729	8.44843	4.83980	0.1628057	0.17258351	3.1949926	21	—	—
78347 2002 PM_{94}	14.7	X	145.78356	155.08750	175.77410	10.19169	0.0999187	0.17864838	3.1222667	21	—	—
78348 2002 PB_{95}	14.7	X	170.23736	227.15763	114.98326	10.56481	0.0629192	0.18190554	3.0848835	21	1 28.3	19.2
78349 2002 PM_{96}	14.5	X	112.98587	240.42279	112.53021	6.26693	0.1490196	0.17521201	3.1629583	21	—	—
78350 2002 PS_{97}	14.4	X	163.72911	306.12256	29.02890	5.84716	0.1667729	0.18025832	3.1036483	21	1 22.8	19.4
78351 2002 PJ_{98}	14.7	X	125.60429	163.86143	127.11672	12.66115	0.2653475	0.22344561	2.6896029	21	—	—
78352 2002 PW_{98}	15.2	X	211.30924	260.14163	27.37021	6.11460	0.1192718	0.18231609	3.0802506	21	1 7.6	20.1
78353 2002 PQ_{99}	15.7	X	209.50179	6.81703	89.53862	7.11723	0.0627923	0.25597661	2.4566080	21	8 2.5	19.1
78354 2002 PC_{101}	14.7	X	144.68655	123.74812	190.11445	13.71330	0.1787316	0.18001526	3.1064415	21	—	—
78355 2002 PM_{101}	15.7	X	254.73905	82.86613	206.03906	8.63781	0.1158556	0.24269699	2.5454219	21	2 6.8	19.6
78356 2002 PX_{102}	14.9	X	84.30789	200.31169	290.19476	12.50941	0.0715861	0.19307322	2.9647496	21	4 11.3	19.2
78357 2002 PD_{105}	15.0	X	207.27596	112.10052	202.01864	8.97914	0.0436005	0.18436931	3.0573392	21	1 30.7	19.7
78358 2002 PZ_{107}	16.2	X	124.26903	349.91323	80.25450	6.50485	0.1004389	0.29384960	2.2407117	21	3 17.0	19.0
78359 2002 PZ_{108}	14.8	X	234.00472	311.65296	353.32526	9.84089	0.0840656	0.18887217	3.0085511	21	2 19.8	19.4
78360 2002 PN_{109}	15.7	X	147.23799	183.29766	222.48812	9.76207	0.1588828	0.23909846	2.5708981	21	3 19.5	19.7
78361 2002 PX_{109}	15.8	X	12.42733	286.80758	113.17770	7.28977	0.1117093	0.27263340	2.3555013	21	—	—
78362 2002 PE_{110}	14.3	X	44.94784	266.60443	121.33251	19.55947	0.1292806	0.17115731	3.2127165	21	—	—
78363 2002 PM_{111}	14.7	X	30.98191	318.91598	94.52782	6.17478	0.1796058	0.17213094	3.2005904	21	—	—
78364 2002 PY_{113}	14.3	X	343.67814	137.71216	323.94465	3.89746	0.1218404	0.17154255	3.2079048	21	—	—
78365 2002 PT_{115}	15.0	X	38.87344	170.55573	223.30210	12.02346	0.1270551	0.22015204	2.7163616	21	—	—
78366 2002 PP_{116}	14.6	X	138.13412	77.64104	252.34840	5.93669	0.0720488	0.17466198	3.1695952	21	—	—
78367 2002 PS_{117}	14.6	X	59.64605	33.52693	255.37503	8.24124	0.1264027	0.21253225	2.7809050	21	10 16.2	18.5
78368 2002 PB_{119}	15.1	X	59.75312	76.83162	265.19222	4.17251	0.0741516	0.21937117	2.7228038	21	12 18.7	18.9
78369 2002 PP_{120}	15.5	X	127.65752	84.34818	198.24573	5.12636	0.0317163	0.22073481	2.7115784	21	12 20.3	19.4
78370 2002 PR_{120}	15.2	X	213.12798	283.19977	241.01102	4.47547	0.0106307	0.21548283	2.7554610	21	11 4.9	18.9
78371 2002 PJ_{124}	14.8	X	52.24504	230.89921	173.49541	6.34441	0.1354377	0.17338826	3.1850990	21	—	—
78372 2002 PJ_{125}	15.2	X	306.80131	188.70891	122.75428	3.10790	0.0505737	0.19990950	2.8967683	21	5 27.1	19.0
78373 2002 PT_{125}	16.0	X	171.10078	325.66435	50.57751	3.05109	0.1685520	0.23927096	2.5696623	21	3 11.3	20.0
78374 2002 PF_{126}	16.5	X	16.46329	345.26388	339.96495	4.17792	0.1886708	0.26348841	2.4096929	21	10 20.0	18.9
78375 2002 PV_{127}	15.4	X	147.42264	282.24018	15.28423	6.70821	0.0961146	0.22684873	2.6626361	21	—	—
78376 2002 PC_{128}	14.8	X	53.77736	301.69214	68.68915	1.59145	0.1263656	0.16901195	3.2398466	21	—	—
78377 2002 PF_{133}	15.4	X	33.31913	133.28374	192.10062	4.11939	0.0533205	0.21420387	2.7664183	21	10 20.9	19.0
78378 2002 PS_{133}	14.9	X	213.30939	242.48238	163.59621	2.27149	0.1084885	0.19762179	2.9190811	21	5 29.0	19.3
78379 2002 PW_{133}	15.2	X	271.52212	106.54388	270.75025	1.01153	0.1010064	0.20270663	2.8700585	21	6 27.5	19.0
78380 2002 PZ_{133}	15.3	X	243.44281	213.25558	86.64569	3.38078	0.1323766	0.18906659	3.0064884	21	2 19.3	20.0
78381 2002 PQ_{135}	15.4	X	344.18521	59.86816	352.35314	1.39041	0.2242540	0.21486758	2.7607185	21	12 14.7	17.8
78382 2002 PY_{135}	15.1	X	31.51861	245.89284	58.20455	4.69790	0.0831190	0.21022183	2.8012434	21	9 25.6	18.6
78383 Philmassey	15.5	X	11.66768	62.96791	349.72822	5.16338	0.0621375	0.22134547	2.7065889	21	—	—
78384 2002 PD_{139}	14.7	X	140.26573	57.73308	256.81734	4.27109	0.2103560	0.17413376	3.1760017	21	—	—
78385 2002 PD_{142}	14.3	X	107.92967	49.14844	309.44329	23.49294	0.0869922	0.17791836	3.1308016	21	—	—
78386 2002 PF_{155}	15.4	X	250.47488	224.65212	317.87960	5.65570	0.0320327	0.22582956	2.6706411	21	—	—
78387 2002 PD_{156}	15.4	X	157.75186	242.37029	331.98345	4.52771	0.0564277	0.21770740	2.7366584	21	10 29.0	19.5
78388 2002 PT_{156}	15.5	X	122.57807	269.73310	168.44879	1.00398	0.1616841	0.18977772	2.9989731	21	4 11.5	20.0
78389 2002 PP_{158}	15.1	X	86.69451	101.59363	339.92056	4.51606	0.1459048	0.18492511	3.0512102	21	3 1.7	19.1
78390 2002 PQ_{163}	15.3	X	101.96107	271.14502	127.37349	9.57273	0.2154781	0.18059874	3.0997470	21	2 8.1	19.5
78391 Michaeljäger	14.9	X	89.71155	94.88303	319.38542	14.52865	0.2361251	0.18066172	3.0990265	21	2 13.4	19.0
78392 Dellinger	15.7	X	327.75359	122.45422	343.32018	2.31866	0.0398247	0.22340596	2.6899211	21	—	—
78393 Dillon	15.7	X	160.80802	297.06064	15.11129	2.18718	0.1089486	0.23015798	2.6370520	21	—	—
78394 Garossino	16.0	X	262.58714	279.54986	137.29842	5.61057	0.0949612	0.25779623	2.4450346	21	8 10.8	19.1
78395 2002 QF_{1}	14.2	X	344.48911	260.79438	201.27382	9.40480	0.1136248	0.16940661	3.2348128	21	—	—
78396 2002 QW_{1}	15.1	X	75.01756	157.12010	201.42165	6.32376	0.1216076	0.17088191	3.2161674	21	—	—
78397 2002 QE_{2}	15.3	X	228.41240	248.54493	224.36334	3.53714	0.0181688	0.21032928	2.8002892	21	9 16.9	19.1
78398 2002 QS_{3}	14.9	X	188.92784	211.14445	211.70133	5.87108	0.0127368	0.19711965	2.9240363	21	5 25.5	19.1
78399 2002 QW_{4}	15.0	X	8.55527	302.27314	73.84648	6.07822	0.1690876	0.21392309	2.7688384	21	12 4.6	18.0
78400 2002 QG_{5}	14.0	X	1.23785	294.79261	167.59239	15.69251	0.2273424	0.17261794	3.1945677	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78401 2002 QS_8	14.4	X	205.23671	293.87989	7.71784	10.29078	0.1679852	0.18380573	3.0635856	21	1 20.4	19.6
78402 2002 QW_8	14.9	X	177.45102	221.21621	126.54600	2.80366	0.1675596	0.18357569	3.0661444	21	2 16.4	19.8
78403 2002 QJ_9	14.8	X	255.87698	206.37147	108.96737	10.93286	0.0755872	0.19147367	2.9812382	21	3 31.1	19.3
78404 2002 QG_{14}	14.4	X	83.60837	266.70693	209.99167	11.01438	0.0542883	0.18910000	3.0061342	21	3 26.3	18.6
78405 2002 QW_{14}	14.1	X	12.82709	219.89997	197.83010	10.91208	0.1609131	0.16880321	3.2425169	21	—	—
78406 2002 QP_{17}	15.6	X	200.80223	288.38870	11.40636	1.02289	0.1219101	0.18312371	3.0711875	21	1 11.4	20.5
78407 2002 QV_{17}	15.5	X	230.14849	122.76977	162.07225	1.04539	0.1824904	0.18417636	3.0594741	21	1 18.5	20.5
78408 2002 QV_{18}	15.3	X	323.41836	31.16527	11.69913	4.32320	0.0690443	0.21234862	2.7825080	21	10 19.9	18.7
78409 2002 QR_{19}	15.3	X	355.57833	263.50377	156.38324	9.47678	0.1550989	0.21779495	2.7359249	21	—	—
78410 2002 QU_{21}	16.9	X	233.63873	309.04498	349.69379	2.68203	0.0549894	0.29117935	2.2543898	21	1 25.5	19.9
78411 2002 QG_{28}	16.5	X	54.45250	100.61933	328.70017	1.22011	0.0860994	0.28072968	2.3099921	21	—	—
78412 2002 QF_{29}	14.9	X	185.20191	345.21005	108.93696	7.08779	0.0369621	0.20240942	2.8728673	21	6 29.9	19.0
78413 2002 QZ_{33}	16.5	X	266.80876	196.19803	104.04120	1.97050	0.0798232	0.29540885	2.2328200	21	3 5.9	19.4
78414 2002 QS_{34}	15.9	X	201.71146	249.15562	146.27595	5.03879	0.1100838	0.24519789	2.5280844	21	5 2.3	19.7
78415 2002 QV_{34}	15.8	X	326.51168	27.31326	48.04042	3.12828	0.0446927	0.21749970	2.7384003	21	12 7.8	19.3
78416 2002 QU_{35}	16.0	X	111.65459	274.84017	31.12811	4.48317	0.1422281	0.27395516	2.3479187	21	—	—
78417 2002 QE_{37}	16.9	X	236.07816	40.59708	127.14760	2.22058	0.1204900	0.26953932	2.3734931	21	12 3.3	19.7
78418 2002 QH_{38}	14.8	X	68.29871	73.00248	12.31032	1.06553	0.1858865	0.17741325	3.1367411	21	2 15.2	18.4
78419 2002 QX_{39}	15.1	X	284.55729	246.13083	177.71410	5.93382	0.1390199	0.15604390	3.4169465	21	9 4.6	19.6
78420 2002 QU_{40}	14.2	X	145.66124	30.60562	333.85746	5.64082	0.2470576	0.18329167	3.0693110	21	2 14.3	19.3
78421 2002 QE_{41}	14.7	X	206.48199	347.59945	340.49003	9.59809	0.1138395	0.18802802	3.0175490	21	2 18.3	19.4
78422 2002 QN_{41}	14.3	X	220.79305	67.44552	334.89227	12.72713	0.1798060	0.19847731	2.9106868	21	5 24.3	19.4
78423 2002 QY_{41}	14.9	X	179.64324	279.12828	33.65106	1.11087	0.1482992	0.18140006	3.0906116	21	1 8.6	19.8
78424 2002 QB_{42}	15.1	X	50.07498	305.75509	7.54720	5.14598	0.0323606	0.21504299	2.7592170	21	10 23.4	18.7
78425 2002 QO_{42}	14.8	X	73.92594	290.27909	98.74757	7.98158	0.3114356	0.22539861	2.6740441	21	—	—
78426 2002 QY_{44}	16.0	X	81.56620	327.95807	332.99702	2.07912	0.1929814	0.26836140	2.3804333	21	12 13.6	19.5
78427 2002 QY_{45}	15.7	X	3.50279	98.37175	336.09711	6.76847	0.0598956	0.27686301	2.3314499	21	—	—
78428 2002 QC_{46}	15.5	X	219.12181	202.32966	115.89453	7.07459	0.1597985	0.18782405	3.0197333	21	2 18.0	20.4
78429 Baschek	15.2	X	224.31436	11.05084	332.91743	9.68549	0.1072949	0.19244192	2.9712299	21	3 21.8	19.9
78430 Andrewpearce	15.9	X	338.26705	341.66393	87.91872	3.21395	0.0565609	0.22130583	2.7069121	21	12 18.5	19.2
78431 Kemble	16.6	X	71.32630	356.72201	226.75266	2.99506	0.1507882	0.25794610	2.4440874	21	8 14.4	19.6
78432 Helensailer	15.2	X	347.01802	66.04062	24.16513	3.74978	0.1178088	0.16942585	3.2345679	21	—	—
78433 Gertrudolf	15.8	X	290.37264	137.75957	54.67653	2.65418	0.0275832	0.23065150	2.6332890	21	—	—
78434 Dyer	15.7	X	113.34456	60.90293	177.71053	4.32375	0.0125765	0.21201261	2.7854472	21	10 6.6	19.4
78435 2002 RY_2	14.5	X	112.19967	44.37527	22.54667	6.59759	0.1717724	0.18237075	3.0796350	21	3 20.8	18.9
78436 2002 RV_4	14.4	X	257.64515	328.93516	252.80168	11.29016	0.0516621	0.17711475	3.1402645	21	—	—
78437 2002 RJ_5	14.1	X	130.76457	175.08953	243.04771	11.95357	0.1450924	0.18313562	3.0710544	21	3 20.5	18.9
78438 2002 RR_6	14.9	X	333.75053	105.52562	326.91192	8.52357	0.1198774	0.21700617	2.7425506	21	12 16.5	18.1
78439 2002 RV_7	16.1	X	39.76947	277.39896	38.94708	1.74528	0.1932429	0.26503043	2.4003370	21	11 16.3	18.9
78440 2002 RL_{13}	14.0	X	76.78422	263.49110	104.47591	2.44149	0.1567989	0.16928706	3.2363356	21	—	—
78441 2002 RQ_{13}	16.6	X	91.89993	146.30411	164.91527	2.53962	0.1949454	0.27103032	2.3647803	21	—	—
78442 2002 RN_{14}	14.7	X	27.53147	86.80452	11.84826	4.72158	0.0363274	0.17560947	3.1581840	21	—	—
78443 2002 RE_{15}	15.1	X	143.49551	188.92914	203.65446	3.15319	0.2070061	0.18281280	3.0746687	21	3 12.4	20.1
78444 2002 RB_{19}	14.4	X	136.41693	356.63686	20.94617	5.81232	0.1763184	0.17979219	3.1090103	21	2 16.9	19.2
78445 2002 RS_{19}	15.1	X	44.87796	342.69091	15.82039	8.71433	0.2255113	0.21632800	2.7482795	21	—	—
78446 2002 RT_{19}	15.1	X	155.53783	262.62534	109.60350	3.05860	0.1958081	0.18176831	3.0864360	21	2 28.4	20.1
78447 2002 RN_{20}	14.8	X	284.11985	283.49700	69.67008	2.93175	0.0794964	0.19867427	2.9087627	21	6 15.4	18.6
78448 2002 RQ_{21}	15.2	X	333.45031	65.89291	18.19760	5.80480	0.2313780	0.21561841	2.7543058	21	—	—
78449 2002 RU_{23}	15.6	X	89.95573	19.07772	344.82530	4.82947	0.1379388	0.22448937	2.6812596	21	—	—
78450 2002 RJ_{24}	16.3	X	125.43005	101.01602	296.34428	1.33145	0.0673302	0.23437390	2.6053328	21	2 3.8	19.8
78451 2002 RY_{24}	14.3	X	269.39103	277.04523	42.93275	14.67961	0.1272465	0.23889204	2.5723789	21	4 9.3	18.0
78452 2002 RZ_{24}	13.6	X	207.58141	5.41137	38.81596	14.87736	0.1647560	0.18832462	3.0143799	21	5 16.8	18.5
78453 Bullock	14.5	X	134.23310	209.83269	98.44083	5.96276	0.1344760	0.17132192	3.2106584	21	—	—
78454 2002 RD_{29}	14.9	X	26.21057	87.37108	262.15336	5.08852	0.0621537	0.21579022	2.7528436	21	11 11.5	18.6
78455 2002 RR_{29}	14.3	X	51.24773	283.87865	176.50400	25.65551	0.2432339	0.17767422	3.1336689	21	2 8.4	17.9
78456 2002 RL_{31}	15.8	X	249.95637	48.91740	302.84763	4.25667	0.0661223	0.24626416	2.5207817	21	4 28.2	19.3
78457 2002 RZ_{31}	15.4	X	28.46999	163.10543	268.95798	2.46011	0.1537613	0.22307654	2.6925687	21	—	—
78458 2002 RM_{35}	14.2	X	334.97410	83.41248	199.74706	14.28212	0.1829717	0.24269925	2.5454062	21	5 11.1	16.8
78459 2002 RR_{35}	15.3	X	71.94181	119.51287	254.02830	4.94712	0.1314562	0.22357175	2.6885912	21	—	—
78460 2002 RD_{36}	15.2	X	267.34514	186.26543	264.32540	4.42220	0.0616473	0.21056479	2.7982008	21	10 1.0	19.1
78461 2002 RH_{37}	15.4	X	86.26872	14.22591	26.45687	2.55400	0.0117086	0.23172538	2.6251471	21	—	—
78462 2002 RQ_{37}	15.5	X	28.62105	317.51681	248.09590	3.44790	0.0720343	0.24703297	2.5155489	21	4 29.7	18.3
78463 2002 RV_{40}	16.4	X	197.58737	220.91655	121.76022	2.78533	0.1853351	0.23821987	2.5772155	21	2 22.0	20.7
78464 2002 RC_{42}	15.8	X	155.35841	270.16274	79.36892	2.73254	0.0970697	0.23275712	2.6173837	21	1 15.1	19.6
78465 2002 RK_{43}	15.5	X	64.50105	72.65023	358.89329	12.60114	0.0726532	0.23016797	2.6369757	21	—	—
78466 2002 RR_{43}	15.0	X	165.70967	183.49414	109.19581	2.31693	0.1605508	0.17511246	3.1641570	21	—	—
78467 2002 RZ_{43}	15.2	X	6.64139	319.33775	68.19468	2.66304	0.0982374	0.21553607	2.7550073	21	12 7.9	18.5
78468 2002 RL_{44}	14.8	X	165.79985	245.47104	134.84690	7.57447	0.1710759	0.18531987	3.0468756	21	3 17.8	19.8
78469 2002 RN_{44}	15.5	X	60.62181	314.72404	55.36711	4.16604	0.0964243	0.22127524	2.7071615	21	—	—
78470 2002 RM_{45}	13.6	X	139.52743	339.13426	22.55653	3.99635	0.2747731	0.12579660	3.9447860	21	2 15.8	19.9
78471 2002 RR_{46}	15.2	X	339.49887	297.75020	113.74921	3.49485	0.0544773	0.21491981	2.7602711	21	11 26.1	18.6
78472 2002 RE_{47}	15.9	X	183.35100	348.96280	28.96148	5.31261	0.1052688	0.23964320	2.5670006	21	3 22.0	19.7
78473 2002 RE_{48}	15.1	X	211.98779	290.80517	130.13630	2.95163	0.0850294	0.19695188	2.9256966	21	6 16.4	19.4
78474 2002 RB_{49}	15.3	X	348.50002	82.95609	13.79255	6.43422	0.1154451	0.27323909	2.3520190	21	—	—
78475 2002 RM_{49}	15.9	X	155.60717	357.78195	27.75752	4.95327	0.1527948	0.28807641	2.2705492	21	2 28.9	19.0
78476 2002 RQ_{50}	14.4	X	182.07269	305.77825	18.12900	8.12450	0.1200056	0.17944585	3.1130095	21	1 24.7	19.4
78477 2002 RF_{51}	14.0	X	128.23455	347.68072	24.59091	8.37991	0.1636446	0.12390374	3.9848604	21	2 10.5	20.0
78478 2002 RE_{52}	14.6	X	95.15106	62.86281	16.59780	16.16772	0.2147585	0.17923001	3.1155082	21	3 24.1	19.0
78479 2002 RO_{52}	14.8	X	332.67399	237.36784	128.34745	3.06951	0.0742940	0.20564966	2.8426107	21	9 14.9	18.2
78480 2002 RA_{53}	15.1	X	194.93403	329.02585	90.42931	2.09626	0.1050944	0.19516791	2.9434982	21	5 26.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78481 2002 RY_{53}	14.8	X	220.90280	198.51748	82.23627	2.90291	0.1140981	0.18050555	3.1008137	21	1 8.3	19.6
78482 2002 RR_{54}	15.1	X	227.24511	33.85636	11.99113	5.73982	0.0772227	0.19782892	2.9170432	21	6 14.0	19.5
78483 2002 RV_{54}	16.2	X	335.94301	244.94012	304.85975	6.85460	0.0468776	0.28713718	2.2754978	21	1 10.9	18.8
78484 2002 RS_{57}	15.4	X	66.88338	86.85513	266.39440	4.27837	0.0819995	0.21925595	2.7237576	21	—	—
78485 2002 RX_{58}	14.5	X	183.08352	89.31292	247.87536	4.47934	0.1002051	0.18202491	3.0835347	21	2 4.7	19.4
78486 2002 RN_{59}	14.4	X	354.40670	345.23978	18.46251	9.67603	0.1619782	0.20886896	2.8133264	21	10 19.8	17.4
78487 2002 RO_{59}	15.0	X	190.53665	4.14729	19.51832	11.21293	0.1175654	0.18753784	3.0228048	21	4 9.0	19.7
78488 2002 RJ_{60}	14.2	X	49.73787	302.04116	98.48278	3.23616	0.1295437	0.16894170	3.2407447	21	—	—
78489 2002 RZ_{60}	16.3	X	12.83843	255.46438	86.33066	2.77513	0.2336995	0.26207995	2.4183186	21	11 16.8	18.5
78490 2002 RF_{61}	14.3	X	180.97772	219.28782	15.59215	17.32684	0.2697694	0.22001223	2.7175122	21	12 5.0	19.4
78491 2002 RQ_{61}	14.3	X	121.04658	243.35041	108.06209	5.71836	0.0945276	0.17254037	3.1955250	21	—	—
78492 2002 RX_{61}	14.6	X	256.33518	179.93239	23.80605	12.96582	0.0704829	0.27531307	2.3401920	21	—	—
78493 2002 RS_{62}	14.6	X	223.98528	128.30385	178.21383	13.78502	0.0923530	0.23248566	2.6194208	21	1 31.2	18.8
78494 2002 RX_{63}	16.7	X	223.89288	198.55685	112.06255	4.01472	0.1976364	0.28908743	2.2652523	21	1 30.1	20.3
78495 2002 RZ_{64}	14.3	X	332.17195	336.25983	58.60000	11.39066	0.1398843	0.20564224	2.8426791	21	10 24.4	17.4
78496 2002 RH_{67}	14.5	X	29.15069	260.90230	292.53580	8.64568	0.0693808	0.18948835	3.0020255	21	4 16.4	18.5
78497 2002 RR_{71}	15.4	X	13.01160	271.61311	171.13929	10.80930	0.2421767	0.22208782	2.7005542	21	—	—
78498 2002 RX_{72}	15.3	X	121.47596	219.11492	172.90115	1.97641	0.1901322	0.18045228	3.1014239	21	2 17.8	19.8
78499 2002 RQ_{74}	15.9	X	4.04897	151.90762	350.24186	6.48310	0.1015275	0.28461570	2.2889175	21	—	—
78500 2002 RO_{75}	14.6	X	46.86568	128.31852	334.68431	10.09132	0.0762799	0.17993551	3.1073592	21	1 25.7	18.7
78501 2002 RA_{77}	14.9	X	201.84916	21.78732	336.69224	6.81754	0.1379208	0.18804018	3.0174190	21	3 19.0	19.7
78502 2002 RV_{80}	14.7	X	74.61080	298.21603	354.36903	8.84855	0.1364290	0.21350839	2.7724225	21	11 8.9	18.9
78503 2002 RO_{81}	14.9	X	124.86297	290.60148	169.86059	3.64064	0.1335675	0.18843673	3.0131842	21	5 9.1	19.4
78504 2002 RM_{82}	14.5	X	85.55628	287.06302	172.65858	16.57254	0.2157586	0.18103535	3.0947611	21	4 5.1	18.7
78505 2002 RS_{84}	13.9	X	41.03107	276.81748	183.50382	9.32155	0.1531267	0.17522506	3.1628013	21	1 14.3	17.7
78506 2002 RU_{84}	16.2	X	187.06945	308.10709	343.62392	1.71577	0.1757172	0.28186226	2.3037999	21	—	—
78507 2002 RY_{84}	16.2	X	349.72298	176.11989	259.63227	1.47640	0.1770005	0.26873645	2.3782180	21	—	—
78508 2002 RJ_{85}	15.7	X	271.44356	324.60276	345.75993	3.58557	0.1483416	0.24356504	2.5393705	21	3 22.2	19.4
78509 2002 RM_{85}	15.0	X	318.28683	196.44752	359.29540	9.54872	0.1100020	0.23197126	2.6232918	21	—	—
78510 2002 RU_{85}	14.4	X	85.15758	251.61188	139.26760	2.11389	0.2434873	0.17339960	3.1849600	21	1 12.8	18.4
78511 2002 RN_{86}	15.2	X	358.47567	45.09555	336.63052	2.85981	0.0967668	0.21169962	2.7881919	21	11 15.8	18.5
78512 2002 RK_{87}	15.1	X	205.27514	234.35351	158.58723	1.43151	0.1829950	0.19062420	2.9900884	21	5 3.2	20.1
78513 2002 RL_{87}	14.3	X	317.86768	279.28865	32.01611	2.44170	0.0864865	0.19709444	2.9242857	21	6 6.2	17.9
78514 2002 RF_{88}	15.0	X	147.58923	183.18712	235.35047	1.47411	0.1489570	0.18471962	3.0534727	21	4 11.3	19.8
78515 2002 RV_{90}	16.3	X	10.24047	351.31920	323.33905	0.72875	0.1881819	0.25901970	2.4373292	21	9 21.8	18.4
78516 2002 RH_{92}	15.2	X	283.98192	323.53011	31.53340	2.14099	0.1154100	0.19835225	2.9119101	21	6 12.2	19.2
78517 2002 RW_{92}	15.0	X	335.62080	339.65513	18.64706	2.04993	0.0861600	0.20501302	2.8484925	21	9 8.5	18.4
78518 2002 RF_{93}	14.1	X	160.22907	125.84838	298.52076	9.16558	0.0962469	0.18963573	3.0004699	21	4 23.4	18.9
78519 2002 RL_{94}	15.9	X	264.90955	278.84420	48.62232	2.02659	0.0969346	0.24374695	2.5381070	21	4 13.0	19.5
78520 2002 RQ_{95}	15.7	X	107.24260	307.63375	343.78255	2.20828	0.2058735	0.27001293	2.3707168	21	12 25.9	19.5
78521 2002 RH_{96}	15.0	X	31.99587	156.92129	198.65322	5.11485	0.0941890	0.21281082	2.7784777	21	12 2.5	18.6
78522 2002 RM_{96}	14.3	X	249.10379	200.38608	188.09969	10.28813	0.0953056	0.19601422	2.9350195	21	6 15.8	18.7
78523 2002 RV_{96}	16.4	X	22.28124	142.65996	169.00004	2.32056	0.2081933	0.25992129	2.4316896	21	10 15.7	18.6
78524 2002 RM_{97}	14.5	X	49.33068	96.92929	3.09653	1.43903	0.1449478	0.17501982	3.1652734	21	1 29.8	18.1
78525 2002 RY_{97}	14.8	X	186.87285	51.03914	3.27390	8.68600	0.1011315	0.18972390	2.9995402	21	5 9.7	19.5
78526 2002 RH_{98}	15.7	X	46.34425	21.39080	29.23652	3.79849	0.0144238	0.27459026	2.3442970	21	—	—
78527 2002 RJ_{98}	14.3	X	110.58193	68.88251	20.10657	11.48517	0.1401086	0.18250687	3.0781037	21	4 9.3	18.7
78528 2002 RO_{98}	14.5	X	71.85736	236.99187	164.36513	5.38331	0.1305427	0.17156464	3.2076295	21	—	—
78529 2002 RZ_{98}	14.5	X	86.98261	245.49462	183.20589	6.00569	0.1093424	0.17679258	3.1440784	21	2 9.2	18.7
78530 2002 RW_{100}	14.3	X	152.85606	216.06310	200.18627	15.68104	0.0754401	0.18403174	3.0610768	21	4 8.3	18.7
78531 2002 RM_{103}	14.7	X	127.51429	263.00114	24.02873	5.69806	0.0219039	0.21662979	2.7457264	21	12 24.5	18.6
78532 2002 RQ_{104}	14.3	X	145.36557	67.39398	21.34381	11.41905	0.0917895	0.18616349	3.0376639	21	5 8.9	18.9
78533 2002 RL_{106}	14.8	X	175.08403	298.88900	68.95868	5.29619	0.1791957	0.18023637	3.1039003	21	3 12.6	19.9
78534 Renmir	14.9	X	320.86028	246.51468	196.81827	12.08129	0.1108639	0.21046340	2.7990994	21	12 8.2	18.3
78535 Carloconti	14.7	X	273.14125	83.42235	198.84629	14.39584	0.1090493	0.23546069	2.5973099	21	2 18.9	18.7
78536 Shrbený	14.2	X	50.68395	217.07512	266.78728	6.71907	0.1553303	0.17793748	3.1305772	21	2 27.9	18.0
78537 2002 RP_{114}	15.1	X	27.75706	324.24662	88.76065	4.04917	0.0759854	0.21928831	2.7234896	21	—	—
78538 2002 RP_{116}	14.3	X	209.81195	199.99978	306.54897	10.78881	0.1561838	0.20975066	2.8054368	21	9 19.9	18.9
78539 2002 RV_{116}	14.3	X	329.61459	136.24488	327.78222	8.42158	0.1969391	0.21555276	2.7548650	21	—	—
78540 2002 RH_{117}	15.4	X	168.26298	236.20326	33.87016	1.34961	0.1425317	0.17229196	3.1985959	21	—	—
78541 2002 RV_{117}	14.1	X	130.41245	258.33872	197.12401	15.54059	0.1740270	0.18511425	3.0491314	21	5 13.6	19.0
78542 2002 RH_{119}	16.0	X	260.31458	171.13256	91.92375	7.38420	0.0891298	0.28530427	2.2852333	21	1 8.7	19.0
78543 2002 RK_{119}	14.8	X	52.29941	123.11802	240.01220	3.89259	0.1719699	0.21878421	2.7276715	21	—	—
78544 2002 RZ_{120}	15.8	X	177.64076	28.29196	287.14876	6.25845	0.1355776	0.28346092	2.2951298	21	—	—
78545 2002 RT_{121}	16.2	X	324.44370	322.12026	316.74591	6.46082	0.2621099	0.30088390	2.2056508	21	3 19.2	18.6
78546 2002 RF_{122}	13.9	X	78.17613	239.89049	134.65617	16.59993	0.0446572	0.17101196	3.2145367	21	—	—
78547 2002 RZ_{122}	15.0	X	29.35049	343.31337	27.59297	12.61779	0.1376141	0.21550880	2.7552397	21	12 24.3	18.8
78548 2002 RM_{126}	15.2	X	192.78328	300.55225	56.65998	6.01306	0.1852544	0.23965246	2.5669345	21	3 9.6	19.4
78549 2002 RS_{126}	14.9	X	48.61980	286.52655	33.99718	7.78725	0.2853677	0.21567561	2.7538188	21	12 5.9	18.9
78550 2002 RS_{128}	14.7	X	116.98545	183.75366	202.23990	17.55042	0.0746517	0.18020715	3.1042358	21	1 18.3	19.4
78551 2002 RQ_{134}	14.2	X	139.29110	227.62364	78.01734	9.89615	0.1427371	0.17122694	3.2118456	21	—	—
78552 2002 RD_{135}	15.3	X	4.88968	296.94535	130.56858	9.80761	0.1570054	0.21922129	2.7240447	21	—	—
78553 2002 RM_{135}	15.9	X	164.76265	50.69302	8.07184	14.56241	0.1003661	0.24223576	2.5486520	21	4 17.7	19.7
78554 2002 RH_{136}	15.8	X	349.49640	209.92960	117.48523	5.33244	0.1376082	0.25777756	2.4451527	21	8 25.4	17.9
78555 2002 RF_{139}	14.6	X	28.23554	54.09907	90.64169	11.15806	0.0022258	0.18257734	3.0773116	21	2 20.2	19.0
78556 2002 RH_{140}	15.7	X	46.69011	224.98577	94.66383	7.97285	0.1433545	0.26554982	2.3972061	21	11 24.0	18.7
78557 2002 RN_{140}	14.9	X	30.43191	274.15847	111.49412	9.95577	0.1346226	0.21785729	2.7354030	21	—	—
78558 2002 RO_{152}	14.8	X	30.85064	352.94712	216.36814	11.15679	0.0657711	0.19347335	2.9606605	21	5 14.5	18.6
78559 2002 RG_{154}	15.0	X	210.99144	166.04514	206.46187	14.73062	0.1449116	0.24016713	2.5632659	21	4 9.8	19.0
78560 2002 RL_{154}	14.6	X	140.48815	124.30148	318.51262	9.77606	0.0895059	0.19197123	2.9760847	21	4 23.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78561 2002 RO_{154}	15.5	X	36.14922	230.11777	71.75094	8.04548	0.0682641	0.25946864	2.4345169	21	10 5.8	18.5
78562 2002 RB_{160}	15.0	X	27.38724	29.68261	56.68937	2.20282	0.1702985	0.17360617	3.1824331	21	—	—
78563 2002 RV_{168}	16.3	X	13.76736	186.44729	342.09180	3.41370	0.0965024	0.28908228	2.2652792	21	1 31.9	18.5
78564 2002 RH_{172}	15.2	X	7.88245	301.20706	97.03523	7.08585	0.0616853	0.21766319	2.7370290	21	12 20.0	18.7
78565 2002 RX_{172}	14.8	X	175.16190	43.05705	30.32606	15.59092	0.0398166	0.24548599	2.5261061	21	5 15.8	18.5
78566 2002 RG_{173}	15.2	X	151.68776	20.72296	53.57383	11.55478	0.1025381	0.24109869	2.5566590	21	4 29.2	18.9
78567 2002 RR_{180}	16.1	X	57.47192	230.68506	187.43764	3.30941	0.0233152	0.22579147	2.6709414	21	—	—
78568 2002 RW_{181}	14.7	X	189.98998	226.31653	118.95262	5.36948	0.1755757	0.18223148	3.0812040	21	2 25.4	19.8
78569 2002 RC_{184}	14.1	X	20.11266	128.66310	309.61093	14.34572	0.1259743	0.17085520	3.2165027	21	—	—
78570 2002 RB_{197}	15.5	X	297.65504	103.90527	109.57308	6.64665	0.0198289	0.23264105	2.6182543	21	1 7.9	18.8
78571 2002 RQ_{211}	15.6	X	55.33148	136.17171	252.58724	2.22595	0.0709579	0.22184174	2.7025508	21	—	—
78572 2002 RT_{212}	15.1	X	303.00223	3.74399	88.19823	10.07331	0.1181598	0.21177337	2.7875445	21	11 21.2	18.5
78573 2002 RT_{213}	14.4	X	205.25370	260.00905	91.07533	11.97484	0.1588072	0.18903472	3.0068262	21	3 20.7	19.5
78574 2002 RB_{214}	14.9	X	184.59566	32.86700	21.82592	9.41251	0.0577021	0.19323525	2.9630921	21	5 7.8	19.3
78575 2002 RC_{224}	14.6	X	262.02584	254.44988	51.39844	9.39131	0.0720625	0.19074057	2.9888721	21	3 25.8	19.1
78576 2002 RB_{228}	14.4	X	138.18018	256.29238	61.24757	10.10775	0.0775810	0.17390419	3.1787962	21	—	—
78577 JPL	15.9	X	178.06151	292.29809	142.65631	0.72306	0.0989269	0.19562628	2.9388985	21	5 28.9	20.3
78578 Donpettit	16.4	X	265.32428	92.60551	178.41038	3.04507	0.0377238	0.23819280	2.5774107	21	2 5.9	19.8
78579 2002 SV_{4}	15.2	X	161.58477	43.83416	357.21388	2.66026	0.0993676	0.18512825	3.0489777	21	3 31.6	19.8
78580 2002 SW_{5}	16.0	X	115.07739	163.95161	173.41412	3.36119	0.0791378	0.22268838	2.6956966	21	—	—
78581 2002 SZ_{5}	15.1	X	333.91434	282.64822	39.22650	2.49153	0.0521744	0.19981622	2.8976697	21	7 19.4	18.8
78582 2002 SG_{6}	16.2	X	258.95698	33.18329	122.92518	3.00228	0.0946335	0.26842146	2.3800782	21	12 23.6	18.7
78583 2002 SS_{10}	14.8	X	69.45189	243.19180	50.04167	5.07956	0.0358992	0.20935405	2.8089789	21	10 24.3	18.5
78584 2002 SU_{10}	15.1	X	131.58509	5.53040	61.32890	3.87345	0.1477629	0.18322004	3.0701109	21	4 7.3	19.7
78585 2002 SF_{12}	14.8	X	88.58493	337.34488	148.14041	2.56888	0.2427287	0.18278560	3.0749736	21	5 13.9	19.2
78586 2002 SU_{12}	14.7	X	45.69754	14.81726	35.75337	0.63554	0.1643702	0.16896116	3.2404958	21	—	—
78587 2002 SZ_{12}	14.8	X	187.76301	293.87034	269.29226	20.30257	0.3242167	0.26986251	2.3715977	21	11 5.8	19.4
78588 2002 SP_{15}	15.1	X	233.62154	2.86507	295.83963	13.23500	0.1066851	0.23509921	2.5999716	21	1 31.2	19.1
78589 2002 SY_{15}	15.1	X	8.10314	286.82805	261.90318	13.15099	0.0498533	0.23692004	2.5866332	21	2 27.4	18.6
78590 2002 SQ_{16}	14.1	X	77.87511	180.74585	260.49997	17.04415	0.1016994	0.17722758	3.1389315	21	2 5.4	18.5
78591 2002 SX_{18}	15.2	X	353.06260	358.28835	69.83135	10.84658	0.1918761	0.21643384	2.7473835	21	—	—
78592 2002 SB_{19}	14.8	X	43.29789	70.34909	67.41406	14.00508	0.0879989	0.23568956	2.5956282	21	2 28.1	18.1
78593 2002 SC_{19}	15.7	X	30.56758	98.31074	350.83313	3.23500	0.0816819	0.22561040	2.6723704	21	—	—
78594 2002 SQ_{20}	15.5	X	259.09415	264.57905	160.78040	2.30807	0.0478141	0.20284682	2.8687360	21	8 21.6	19.5
78595 2002 SR_{20}	16.1	X	205.27197	240.31900	88.35458	2.15511	0.1505482	0.23596922	2.5935770	21	2 11.7	20.3
78596 2002 SK_{21}	15.2	X	235.35431	245.48286	150.38426	2.54442	0.1066855	0.19560853	2.9390763	21	6 8.5	19.6
78597 2002 SQ_{23}	15.4	X	324.27687	132.93719	27.54715	7.30772	0.0531152	0.27865414	2.3214485	21	—	—
78598 2002 SP_{24}	14.1	X	217.86950	163.95240	107.37976	2.14212	0.1582623	0.17699447	3.1416870	21	—	—
78599 2002 SM_{27}	14.4	X	274.92763	256.65963	95.89559	5.93141	0.0837220	0.19490839	2.9461104	21	6 2.7	18.6
78600 2002 SR_{27}	15.0	X	166.82717	280.41367	91.04964	5.90462	0.1723696	0.18186666	3.0853231	21	3 9.4	20.0
78601 2002 SL_{31}	14.4	X	99.74939	321.40679	106.27299	11.08691	0.0802611	0.18010881	3.1053657	21	2 24.4	18.8
78602 2002 ST_{31}	15.7	X	90.79143	247.70008	89.75922	5.79555	0.1674430	0.22021340	2.7158569	21	—	—
78603 2002 SZ_{32}	15.3	X	317.38186	169.72298	293.39059	4.31100	0.1646019	0.21435948	2.7650793	21	12 28.2	18.1
78604 2002 SS_{37}	15.1	X	113.30541	305.71736	22.40945	5.39415	0.0613103	0.21988980	2.7185208	21	—	—
78605 2002 SA_{38}	14.5	X	79.99058	177.92919	196.35884	4.53082	0.1327989	0.16998059	3.2275265	21	—	—
78606 2002 SD_{46}	15.2	X	210.78454	359.12506	41.18899	3.50600	0.0483098	0.19121952	2.9838792	21	5 21.4	19.5
78607 2002 SY_{49}	14.5	X	74.91389	238.81423	192.21475	4.62034	0.1656392	0.17597775	3.1537763	21	2 3.2	18.5
78608 2002 SC_{53}	14.7	X	320.55777	343.25231	28.17270	23.22086	0.1633218	0.25741719	2.4474342	21	9 14.9	17.5
78609 2002 SY_{53}	14.8	X	132.19169	244.17872	144.98151	13.91357	0.1526830	0.23025431	2.6363164	21	2 14.2	18.6
78610 2002 SM_{54}	14.8	X	64.99521	61.84339	315.50982	10.78814	0.0827618	0.17032172	3.2232157	21	—	—
78611 2002 SA_{55}	15.3	X	9.35019	116.88497	334.93109	12.15453	0.1731770	0.22252557	2.6970113	21	—	—
78612 2002 SP_{57}	15.5	X	144.97139	1.84451	22.46988	15.82612	0.1362357	0.23342869	2.6123612	21	2 27.2	19.6
78613 2002 SB_{58}	15.3	X	10.60437	336.02738	89.55278	9.83683	0.0349691	0.21790415	2.7350108	21	—	—
78614 2002 SF_{58}	14.5	X	173.23729	2.41847	66.82582	11.52006	0.1148471	0.18884435	3.0088466	21	5 18.3	19.1
78615 2002 SH_{59}	14.4	X	214.14007	87.71272	98.87121	9.99659	0.0939743	0.21694325	2.7430809	21	11 26.7	18.4
78616 2002 SB_{62}	15.1	X	81.11428	281.69066	182.52735	9.34462	0.0638969	0.18415123	3.0597526	21	3 10.4	19.2
78617 2002 TV_{2}	14.9	X	119.13641	73.04108	38.97002	1.79727	0.2160626	0.18535283	3.0465144	21	5 25.2	19.8
78618 2002 TH_{5}	14.7	X	255.92439	246.80867	39.30767	15.25420	0.0998277	0.23497803	2.6008654	21	2 17.3	18.9
78619 2002 TN_{5}	14.6	X	73.82241	322.31330	63.72453	6.04844	0.1179557	0.16886838	3.2416825	21	—	—
78620 2002 TB_{7}	15.1	X	255.97718	344.91495	72.51595	2.77298	0.0839518	0.19996969	2.8961870	21	8 2.9	19.2
78621 2002 TS_{8}	15.2	X	60.12888	350.34132	63.79634	3.46678	0.2003537	0.22200341	2.7012387	21	—	—
78622 2002 TY_{9}	14.2	X	70.16045	219.25144	168.30563	10.88514	0.1476207	0.16810360	3.2515071	21	—	—
78623 2002 TV_{13}	15.4	X	325.74534	277.51568	154.50018	6.69074	0.0280195	0.21226596	2.7832303	21	12 2.9	19.1
78624 2002 TL_{14}	14.9	X	33.01539	330.94313	32.06223	6.92026	0.0719735	0.21377274	2.7701365	21	12 8.9	18.6
78625 2002 TU_{14}	14.7	X	11.78969	283.56430	200.22171	1.72436	0.1563581	0.17307760	3.1889091	21	—	—
78626 2002 TQ_{21}	16.5	X	192.92931	185.78079	108.97472	2.42323	0.2293602	0.28250481	2.3003053	21	—	—
78627 2002 TD_{23}	14.5	X	64.31715	275.64308	188.10686	4.80843	0.1086189	0.17801712	3.1296434	21	2 20.9	18.5
78628 2002 TS_{24}	15.0	X	143.61904	203.16785	237.67675	0.54686	0.1196838	0.18617756	3.0375108	21	5 2.3	19.7
78629 2002 TK_{26}	14.3	X	164.90535	354.98257	53.54093	10.06018	0.1380170	0.18478874	3.0527112	21	4 18.0	19.1
78630 2002 TG_{27}	15.1	X	234.15234	14.65054	242.49431	2.41289	0.0655151	0.22678601	2.6631269	21	—	—
78631 2002 TD_{29}	14.8	X	64.52423	323.03844	155.24755	1.57412	0.0969892	0.17920015	3.1158543	21	3 11.3	18.8
78632 2002 TO_{29}	14.6	X	62.95758	39.96373	19.22595	1.13386	0.1840592	0.17110446	3.2133781	21	1 5.6	18.4
78633 2002 TK_{30}	14.6	X	292.72929	112.70404	24.65514	14.25179	0.1313619	0.21438684	2.7648440	21	—	—
78634 2002 TD_{35}	15.0	X	149.58151	110.01798	27.25951	0.79566	0.1071324	0.19477321	2.9474734	21	7 17.2	19.4
78635 2002 TF_{36}	15.0	X	0.18573	85.98863	136.19154	2.66043	0.0059756	0.18665825	3.0322936	21	4 18.9	19.1
78636 2002 TL_{36}	15.5	X	171.42722	162.17876	5.22925	1.96337	0.0126302	0.20294266	2.8678328	21	9 16.8	19.4
78637 2002 TU_{36}	14.4	X	95.65470	245.32489	197.22948	11.15423	0.0801623	0.17897661	3.1184482	21	3 3.9	18.8
78638 2002 TF_{37}	14.9	X	122.98287	87.91506	11.97753	4.69108	0.1321618	0.18415629	3.0596965	21	5 4.3	19.6
78639 2002 TQ_{37}	16.2	X	267.51931	161.54438	202.10364	0.90548	0.1309270	0.19527603	2.9424116	21	5 31.9	20.4
78640 2002 TU_{37}	14.4	X	355.38558	308.96039	44.40499	13.45966	0.1174953	0.20507466	2.8479217	21	10 9.7	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78641 2002 TW_{38}	14.3	X	25.52147	102.70364	34.25673	12.00331	0.0451285	0.17496753	3.1659040	21	2 10.3	18.7
78642 2002 TY_{39}	15.0	X	275.46803	293.28046	121.92407	2.65268	0.1312292	0.20024416	2.8935399	21	8 17.8	18.8
78643 2002 TA_{42}	15.1	X	113.80896	32.80656	90.83293	2.91144	0.2097605	0.18450372	3.0558543	21	6 3.0	19.9
78644 2002 TA_{44}	15.2	X	145.96795	172.10095	58.27544	7.60115	0.0909905	0.26038024	2.4288314	21	11 13.3	18.5
78645 2002 TG_{45}	14.6	X	158.14525	331.83983	40.29999	5.32057	0.0441698	0.17814403	3.1281570	21	2 20.5	19.2
78646 2002 TV_{46}	14.5	X	70.35701	5.46065	104.91918	2.63501	0.1432686	0.17710997	3.1403210	21	3 17.2	18.4
78647 2002 TQ_{48}	15.5	X	12.16536	189.88478	37.89321	5.89855	0.1549048	0.29313783	2.2443374	21	4 27.0	16.8
78648 2002 TS_{49}	15.1	X	207.76698	158.99232	177.32667	3.71966	0.2462312	0.18277409	3.0751027	21	2 27.3	20.4
78649 2002 TF_{50}	14.4	X	110.97867	87.06514	213.76451	11.05991	0.1053128	0.21379470	2.7699468	21	12 25.8	18.8
78650 2002 TG_{51}	14.1	X	353.24112	134.74111	49.01305	15.46777	0.0263293	0.17650258	3.1475213	21	2 28.6	18.7
78651 2002 TM_{57}	15.0	X	43.96146	210.40079	80.10066	1.00057	0.1476837	0.20356328	2.8620009	21	10 2.5	18.7
78652 Quero	15.2	X	126.58387	101.85996	316.43812	7.58154	0.1289837	0.23405442	2.6077032	21	3 10.2	18.9
78653 2002 TQ_{66}	15.0	X	283.29174	265.91089	317.69779	25.10311	0.1721110	0.28142925	2.3061624	21	—	—
78654 2002 TB_{72}	15.5	X	112.44582	280.51959	221.12829	11.29320	0.0038677	0.24460745	2.5321510	21	5 26.6	18.7
78655 2002 TA_{73}	14.9	X	265.91964	310.10657	261.04494	8.40900	0.0647756	0.22400728	2.6851051	21	—	—
78656 2002 TL_{73}	14.5	X	54.22175	206.99367	287.30136	3.86215	0.1163992	0.17995428	3.1071432	21	3 16.1	18.5
78657 2002 TS_{76}	14.7	X	136.17961	351.14342	294.55452	3.91058	0.0878044	0.21804352	2.7338452	21	—	—
78658 2002 TS_{77}	14.7	X	116.42599	296.39605	8.01641	9.38307	0.1914531	0.21895914	2.7262185	21	—	—
78659 2002 TD_{79}	14.7	X	219.58683	331.39063	25.42354	9.85969	0.0919259	0.19121691	2.9839064	21	4 6.3	19.1
78660 2002 TE_{83}	14.7	X	336.35470	353.70539	50.77848	9.06636	0.2205113	0.21087923	2.7954186	21	11 13.5	16.9
78661 Castelfranco	15.8	X	265.37381	284.00720	274.07792	2.63805	0.0341862	0.27621112	2.3351168	21	—	—
78662 2002 TN_{86}	14.3	X	338.61656	77.97702	23.80286	12.02594	0.0879420	0.16863009	3.2447358	21	—	—
78663 2002 TG_{89}	14.9	X	169.02507	169.04502	221.97806	10.41737	0.1256485	0.18390954	3.0624327	21	3 26.4	19.9
78664 2002 TN_{89}	14.4	X	223.00467	171.58663	233.50860	9.52243	0.1375364	0.19309326	2.9645445	21	6 4.8	19.2
78665 2002 TO_{89}	14.8	X	268.06636	53.46188	270.73181	3.73120	0.0948783	0.18990492	2.9976337	21	4 15.8	19.3
78666 2002 TZ_{89}	15.8	X	191.78292	317.65438	291.56996	5.73835	0.1561413	0.27331456	2.3515860	21	—	—
78667 2002 TM_{97}	14.3	X	281.53652	145.85889	75.00497	18.54692	0.1664035	0.22858911	2.6491041	21	—	—
78668 2002 TO_{101}	13.8	X	107.71981	33.28835	349.07304	9.39220	0.1035725	0.17497321	3.1658354	21	1 13.8	18.3
78669 2002 TU_{107}	15.4	X	218.00285	47.54385	349.93313	0.50535	0.0545481	0.19247835	2.9708550	21	5 26.0	19.5
78670 2002 TA_{108}	15.9	X	180.50140	128.00456	126.57352	7.39728	0.0880577	0.27439362	2.3454168	21	—	—
78671 2002 TZ_{108}	14.9	X	134.49779	305.43220	132.45751	10.97977	0.0746313	0.18656197	3.0333368	21	4 18.9	19.5
78672 2002 TK_{112}	15.9	X	73.32063	21.50273	133.65834	5.88919	0.0935855	0.29613056	2.2291907	21	4 30.8	18.2
78673 2002 TP_{114}	14.3	X	97.72293	189.69265	264.73182	9.00347	0.0371338	0.18341637	3.0679197	21	3 12.0	18.8
78674 2002 TJ_{115}	14.2	X	5.76052	39.04382	123.10182	8.61631	0.1740687	0.17676342	3.1444242	21	1 31.8	17.7
78675 2002 TH_{118}	14.4	X	186.21984	166.53594	267.88178	9.12949	0.0462883	0.19252300	2.9703956	21	6 5.6	18.6
78676 2002 TJ_{123}	14.1	X	321.51343	197.24953	327.42369	15.31991	0.0498473	0.17520778	3.1630092	21	—	—
78677 2002 TW_{128}	14.6	X	233.75485	221.34796	299.84435	7.98179	0.0935145	0.21335392	2.7737605	21	11 13.2	18.6
78678 2002 TC_{129}	15.3	X	220.23374	64.03393	260.15612	6.91463	0.1751909	0.23754502	2.5820943	21	2 15.5	19.6
78679 2002 TY_{129}	14.7	X	101.64063	172.49525	334.26117	11.75623	0.0439517	0.19181909	2.9776581	21	5 24.3	19.1
78680 2002 TR_{131}	14.7	X	114.33791	73.80117	343.02360	9.25956	0.1043292	0.17999310	3.1066964	21	3 1.2	19.1
78681 2002 TK_{136}	15.0	X	348.50147	350.86666	356.42092	17.21900	0.1063214	0.20390077	2.8588419	21	9 15.1	18.2
78682 2002 TY_{136}	14.6	X	255.20807	14.78955	334.88017	9.84055	0.0793572	0.19079335	2.9883208	21	5 2.1	19.2
78683 2002 TE_{137}	14.5	X	46.30529	194.56896	302.08426	8.54204	0.0657600	0.18045480	3.1013950	21	3 1.6	18.6
78684 2002 TL_{137}	14.7	X	107.56206	179.47417	276.57193	7.38359	0.0649959	0.18279097	3.0749134	21	3 31.2	19.2
78685 2002 TY_{138}	14.6	X	338.14065	218.67455	245.66960	12.10634	0.0660722	0.21706526	2.7420530	21	—	—
78686 2002 TA_{139}	15.1	X	328.69286	315.91143	340.44263	8.19880	0.1066712	0.24696093	2.5160381	21	5 26.0	18.0
78687 2002 TP_{139}	14.4	X	140.90113	97.15949	323.18534	8.22840	0.0952433	0.18198558	3.0839789	21	3 29.9	19.1
78688 2002 TJ_{147}	14.5	X	350.84023	234.69778	299.85518	9.12877	0.0363413	0.18198055	3.0840357	21	2 3.2	18.8
78689 2002 TL_{157}	14.3	X	275.73229	219.42737	83.95373	11.52115	0.1063545	0.18843710	3.0131802	21	4 5.3	18.9
78690 2002 TY_{159}	13.4	X	90.94408	340.26243	94.71197	13.64178	0.1873191	0.17654202	3.1470525	21	3 13.1	17.9
78691 2002 TQ_{161}	14.7	X	274.06201	142.60513	95.10910	14.06727	0.1295634	0.22950505	2.6420512	21	—	—
78692 2002 TA_{167}	13.2	X	329.26712	116.51453	247.06149	15.77323	0.1420880	0.15222585	3.4738451	21	8 18.9	17.8
78693 2002 TY_{167}	13.8	X	119.38465	75.36751	238.65892	14.31492	0.0652848	0.16838181	3.2479246	21	—	—
78694 2002 TN_{168}	14.8	X	144.32534	350.51818	298.80784	11.25644	0.1761635	0.22263755	2.6961069	21	—	—
78695 2002 TT_{168}	14.8	X	182.73959	318.73031	289.17000	12.40151	0.0444180	0.21997489	2.7178197	21	—	—
78696 2002 TB_{170}	16.1	X	3.83049	341.25983	283.99592	8.88835	0.1986271	0.30371665	2.1919147	21	6 10.9	17.2
78697 2002 TZ_{170}	14.0	X	220.81598	30.16926	280.12255	11.03916	0.0609243	0.18135973	3.0910698	21	2 8.8	18.8
78698 2002 TD_{171}	13.6	X	92.22576	99.95201	353.32424	25.42305	0.2438917	0.17865641	3.1221731	21	3 31.0	18.2
78699 2002 TN_{172}	14.0	X	44.72106	249.92772	205.69558	25.17079	0.2788413	0.17557988	3.1585388	21	1 18.9	17.6
78700 2002 TB_{173}	15.0	X	181.47803	332.18824	37.96057	10.29379	0.1052636	0.18499372	3.0504557	21	3 19.3	19.8
78701 2002 TO_{175}	14.7	X	63.11881	169.37313	267.19937	12.67360	0.1289021	0.22818896	2.6522002	21	1 4.3	17.7
78702 2002 TW_{175}	14.7	X	248.23121	51.06149	254.97995	11.96444	0.1687606	0.23790137	2.5795151	21	2 15.9	19.0
78703 2002 TF_{176}	14.0	X	190.06542	87.04112	300.00597	9.91515	0.1446423	0.18568236	3.0429090	21	4 8.0	19.1
78704 2002 TY_{177}	13.5	X	31.62669	96.50521	250.73131	21.43158	0.0698571	0.21003641	2.8028917	21	11 16.3	17.3
78705 2002 TE_{180}	14.0	X	336.45615	139.47236	20.36233	27.01190	0.1755662	0.21990049	2.7184327	21	—	—
78706 2002 TJ_{181}	14.7	X	260.94577	29.21446	215.59617	4.40334	0.1080157	0.18029440	3.1032342	21	1 4.6	19.6
78707 2002 TY_{181}	14.6	X	102.70115	206.75276	206.49761	0.34809	0.1705519	0.17464360	3.1698176	21	2 20.7	19.0
78708 2002 TC_{183}	14.4	X	112.22981	118.13380	340.97231	8.96012	0.2811987	0.18379068	3.0637528	21	5 6.6	19.4
78709 2002 TV_{183}	14.8	X	266.26375	306.49457	340.14522	10.38674	0.1192578	0.23927638	2.5696235	21	2 20.0	18.5
78710 2002 TV_{184}	16.0	X	198.16532	329.90408	291.81034	2.05830	0.1345414	0.27849210	2.3223489	21	—	—
78711 2002 TM_{187}	16.1	X	80.09248	352.02138	306.75715	4.58305	0.2304680	0.26729644	2.3867518	21	12 12.6	19.8
78712 2002 TC_{192}	14.4	X	169.75382	79.41091	299.59792	10.85510	0.1704549	0.18206444	3.0830883	21	3 12.7	19.6
78713 2002 TV_{192}	14.5	X	18.37817	287.33807	96.08956	20.82968	0.1211288	0.16016695	3.3580522	21	12 11.9	19.0
78714 2002 TX_{199}	14.8	X	138.08429	206.34713	274.12621	16.21755	0.1415351	0.24395428	2.5366687	21	6 15.8	18.5
78715 2002 TC_{200}	14.4	X	78.90889	59.54339	274.17250	13.23209	0.2100141	0.21755840	2.7379078	21	—	—
78716 2002 TH_{210}	15.2	X	164.94745	229.61952	100.76710	2.77128	0.1479531	0.22707278	2.6608844	21	1 7.8	19.1
78717 2002 TJ_{211}	14.3	X	169.99468	302.28455	81.84149	10.97054	0.0988571	0.18465879	3.0541432	21	3 25.9	19.2
78718 2002 TU_{214}	14.7	X	99.32554	327.25909	145.64102	10.39745	0.0431619	0.18460895	3.0546929	21	4 15.3	19.1
78719 2002 TB_{215}	14.8	X	227.33237	338.87491	59.75295	11.49433	0.1084601	0.19295807	2.9659290	21	6 2.3	19.4
78720 2002 TJ_{216}	14.6	X	264.84087	239.69890	112.22019	11.06339	0.0979178	0.19338828	2.9615288	21	5 21.2	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78721 2002 TU_{219}	14.7	X	165.86994	95.08890	324.55214	8.45548	0.0837503	0.18705536	3.0280005	21	4 23.0	19.5
78722 2002 TR_{221}	14.3	X	78.65824	27.10345	61.54510	13.89763	0.1663500	0.17722059	3.1390141	21	3 11.7	18.6
78723 2002 TZ_{223}	15.4	X	170.28268	44.68661	347.00112	14.08575	0.1908109	0.24085698	2.5583692	21	3 25.8	19.7
78724 2002 TJ_{230}	13.9	X	140.65872	277.10862	115.79874	17.27108	0.2475862	0.18052424	3.1005997	21	3 20.8	19.3
78725 2002 TM_{230}	14.1	X	336.61262	275.09283	130.89206	16.39538	0.1125086	0.15804413	3.3880552	21	11 9.4	18.6
78726 2002 TC_{231}	14.7	X	165.57535	190.10144	115.92289	10.57406	0.0625108	0.17489270	3.1668069	21	—	—
78727 2002 TN_{231}	14.6	X	178.27062	327.75589	87.36480	11.55069	0.0353045	0.19185584	2.9772778	21	5 6.5	19.0
78728 2002 TK_{233}	14.7	X	356.23993	188.63673	310.23899	12.92935	0.1869523	0.22419115	2.6836368	21	—	—
78729 2002 TF_{237}	14.7	X	181.12228	34.24019	267.45535	13.82890	0.0859756	0.22544678	2.6736632	21	—	—
78730 2002 TV_{238}	14.0	X	59.13605	75.47292	59.37595	20.08341	0.0713356	0.17624678	3.1505661	21	4 2.1	18.5
78731 2002 TT_{239}	14.8	X	108.62248	242.93307	223.38012	10.38690	0.0366804	0.18485033	3.0520330	21	4 12.6	19.2
78732 2002 TH_{242}	14.7	X	161.47553	324.91515	73.63055	14.80189	0.1235323	0.18277202	3.0751260	21	4 7.1	19.7
78733 2002 TA_{243}	15.3	X	94.60584	349.79602	356.76768	4.86970	0.0757340	0.21937904	2.7227387	21	—	—
78734 2002 TR_{251}	14.7	X	63.09033	333.52136	149.44429	5.70996	0.1505815	0.17859419	3.1228983	21	3 23.2	18.5
78735 2002 TC_{253}	14.9	X	68.33687	265.29010	206.97488	8.50065	0.2188780	0.17617591	3.1514110	21	3 24.9	18.8
78736 2002 TJ_{260}	14.2	X	66.33901	68.19868	54.57840	16.57556	0.0305143	0.17813776	3.1282303	21	3 21.1	18.8
78737 2002 TV_{263}	14.6	X	64.02958	179.96447	286.47283	7.92775	0.1955777	0.17558976	3.1584204	21	3 4.6	18.6
78738 2002 TT_{267}	15.2	X	301.54560	281.67675	318.43857	3.14803	0.1636296	0.23427093	2.6060962	21	1 26.5	18.7
78739 2002 TD_{269}	14.4	X	201.55740	172.44387	229.96170	8.56337	0.0757511	0.19125265	2.9835345	21	5 13.2	18.9
78740 2002 TK_{272}	15.8	X	122.62616	278.08180	350.79411	6.47300	0.0899981	0.26600867	2.3944486	21	12 6.7	19.3
78741 2002 TN_{272}	13.9	X	66.88960	162.08276	294.23860	3.98804	0.1429726	0.17636783	3.1491243	21	2 19.8	17.8
78742 2002 TW_{272}	15.3	X	279.28106	179.99930	295.71977	3.15110	0.0829786	0.21224539	2.7834102	21	11 17.6	18.9
78743 2002 TZ_{273}	14.3	X	123.51193	29.90398	326.54833	4.80466	0.1500799	0.17347827	3.1839970	21	1 6.5	18.9
78744 2002 TD_{274}	14.6	X	163.02463	52.56649	305.49722	4.09227	0.1583508	0.17888398	3.1195246	21	2 14.7	19.7
78745 2002 TD_{275}	15.1	X	232.14257	339.14462	342.30770	4.41058	0.1107599	0.18335076	3.0686516	21	3 6.3	20.0
78746 2002 TW_{275}	14.9	X	174.23007	173.19661	230.37702	4.06754	0.1108113	0.18615334	3.0377742	21	4 16.4	19.5
78747 2002 TX_{275}	15.4	X	245.51989	1.76457	242.52811	3.34569	0.0424326	0.22648360	2.6654971	21	—	—
78748 2002 TD_{276}	14.8	X	24.87976	159.81226	251.65522	4.19185	0.0364589	0.21803937	2.7338799	21	—	—
78749 2002 TN_{278}	14.2	X	265.22687	77.91515	275.48924	9.18868	0.1082120	0.19250039	2.9706283	21	5 17.8	18.5
78750 2002 TP_{281}	14.7	X	97.27338	112.73718	267.73040	10.71515	0.0928258	0.22308483	2.6925019	21	—	—
78751 2002 TW_{286}	14.2	X	211.99397	117.63116	267.05000	8.50728	0.1036232	0.18736794	3.0246320	21	4 29.3	19.0
78752 2002 TJ_{287}	14.0	X	198.53976	78.76897	277.08457	5.35555	0.1842505	0.18268766	3.0760726	21	3 12.5	19.3
78753 2002 TY_{289}	15.2	X	339.61263	293.07910	274.02306	8.79916	0.1530086	0.23371069	2.6102594	21	2 1.7	18.5
78754 2002 TA_{295}	13.3	X	352.37088	65.88068	271.21236	14.31118	0.2789343	0.20449975	2.8532568	21	9 1.4	16.0
78755 2002 TP_{295}	14.6	X	301.59552	244.56254	296.21577	12.15109	0.1414189	0.22017241	2.7161940	21	—	—
78756 Sloan	14.4	X	214.56575	38.54003	257.06896	9.88075	0.0089965	0.18233308	3.0800592	21	1 17.9	18.8
78757 2002 UM	14.6	X	100.24878	320.01788	106.63288	22.81671	0.0309751	0.23053920	2.6341441	21	2 6.4	18.3
78758 2002 UC_{1}	13.8	X	88.89575	248.52168	129.69619	22.77024	0.2049061	0.16932812	3.2358123	21	—	—
78759 2002 UB_{2}	14.2	X	145.36205	320.49800	89.54408	11.24370	0.1052984	0.18325923	3.0696733	21	4 1.6	19.0
78760 2002 UP_{6}	14.8	X	211.38116	341.04525	67.76179	11.49203	0.1223658	0.19178349	2.9780266	21	5 29.6	19.4
78761 2002 UQ_{7}	14.6	X	314.01260	11.52481	95.05477	11.56748	0.1364574	0.21296657	2.7771229	21	12 26.8	17.5
78762 2002 UV_{22}	14.4	X	107.54875	349.31069	100.77053	2.72251	0.1523846	0.17797696	3.1301142	21	4 10.5	18.9
78763 2002 UX_{28}	15.1	X	333.31176	26.58262	82.77553	8.48244	0.1059454	0.21627473	2.7487307	21	—	—
78764 2002 UZ_{32}	15.2	X	321.59606	351.89679	263.79933	4.10088	0.1742708	0.23861861	2.5743436	21	3 8.2	18.3
78765 2002 UD_{36}	15.1	X	268.59022	202.88337	316.17153	4.65009	0.0698711	0.21572434	2.7534041	21	12 31.8	18.8
78766 2002 UD_{38}	14.6	X	6.44231	279.20506	225.05016	2.60095	0.0817369	0.17257088	3.1951484	21	1 17.3	18.6
78767 2002 VB_{11}	14.0	X	280.70660	175.91977	49.00596	16.20245	0.1142321	0.17199390	3.2022902	21	1 3.2	19.0
78768 2002 VF_{17}	14.4	X	62.71154	238.02950	138.18916	7.97077	0.1700313	0.21572028	2.7534386	21	—	—
78769 2002 VE_{28}	15.0	X	245.07155	51.94501	56.29044	8.58879	0.0557212	0.20140528	2.8824082	21	10 1.3	19.1
78770 2002 VD_{33}	14.6	X	176.33194	313.50827	70.43613	10.84704	0.0711338	0.17938266	3.1137405	21	3 31.2	19.4
78771 2002 VU_{37}	14.7	X	236.87452	316.81638	74.73803	10.49484	0.0752698	0.19331933	2.9622328	21	6 7.5	18.9
78772 2002 VA_{44}	15.0	X	145.65967	330.13121	46.50611	18.44715	0.1874514	0.23135332	2.6279609	21	2 26.7	19.4
78773 2002 VF_{52}	15.6	X	278.85333	206.21823	91.71626	6.71128	0.0745414	0.23911951	2.5707472	21	3 28.9	19.2
78774 2002 VK_{53}	15.4	X	197.88908	173.25275	79.83153	2.92593	0.2136454	0.27132146	2.3630883	21	—	—
78775 2002 VZ_{61}	14.3	X	189.88344	268.67152	89.02513	12.24133	0.0906830	0.17966014	3.1105336	21	3 14.8	19.3
78776 2002 VB_{65}	14.3	X	178.26492	349.94386	344.73967	13.58900	0.1241977	0.17660972	3.1462482	21	2 4.1	19.4
78777 2002 VE_{65}	14.5	X	159.51701	314.64763	316.34204	11.10732	0.1381581	0.21740167	2.7392234	21	—	—
78778 2002 VL_{65}	14.4	X	70.94122	39.69378	3.89381	14.99130	0.0608037	0.16890633	3.2411970	21	—	—
78779 2002 VZ_{68}	14.5	X	66.99209	101.41026	353.96955	18.41208	0.2109992	0.17478600	3.1680957	21	3 4.5	18.3
78780 2002 VX_{70}	14.7	X	258.77694	290.26981	66.54876	12.62727	0.0333700	0.19042368	2.9921871	21	5 25.8	19.0
78781 2002 VD_{71}	15.0	X	26.42481	123.13833	108.91616	3.44187	0.0219752	0.19013101	2.9952569	21	6 4.6	19.1
78782 2002 VL_{72}	15.3	X	358.25322	225.85811	102.44775	3.87203	0.0469392	0.19968567	2.8989326	21	9 3.5	19.0
78783 2002 VH_{76}	14.9	X	280.27827	64.00493	74.44840	12.55052	0.1483672	0.21033363	2.8002506	21	12 9.9	18.3
78784 2002 VY_{78}	14.2	X	313.83816	145.07680	75.23718	17.05049	0.0843169	0.17494978	3.1661182	21	2 13.3	18.9
78785 2002 VC_{85}	14.8	X	274.26409	203.09239	74.54281	10.24742	0.0979238	0.23597996	2.5934983	21	2 23.9	18.7
78786 2002 VJ_{85}	15.2	X	109.46025	154.41380	336.46882	13.84382	0.0397638	0.23967935	2.5667425	21	5 6.7	18.9
78787 2002 VA_{111}	14.8	X	123.30548	76.18371	0.31734	11.59808	0.0683479	0.18090440	3.0962543	21	3 29.3	19.2
78788 2002 VO_{111}	15.2	X	285.17175	226.37641	296.68471	6.75631	0.0983064	0.21619901	2.7493725	21	—	—
78789 2002 VP_{116}	15.0	X	337.12981	336.79586	269.67992	12.66616	0.1306005	0.23789144	2.5795870	21	3 21.4	18.4
78790 2002 VH_{120}	14.8	X	224.11888	326.17423	298.40165	9.58012	0.2386618	0.27700682	2.3306430	21	—	—
78791 2002 VO_{123}	14.8	X	9.87428	102.67132	304.59006	10.66859	0.1284837	0.21368647	2.7708820	21	—	—
78792 2002 WK_{13}	13.7	X	86.67072	6.67612	71.44759	24.80991	0.1094380	0.17488902	3.1668514	21	3 7.1	18.6
78793 2002 WM_{13}	14.9	X	327.58015	5.63040	133.94630	10.36394	0.1148043	0.21783485	2.7355908	21	—	—
78794 2002 WP_{15}	13.9	X	29.93833	114.89218	80.06681	22.31552	0.0788207	0.18187520	3.0852266	21	5 4.5	18.1
78795 2002 WN_{17}	13.8	X	22.58630	58.60929	101.37782	17.98295	0.1015787	0.17610717	3.1522309	21	3 8.3	18.0
78796 2002 XH_{22}	14.4	X	36.96000	239.44471	275.73233	9.67041	0.0525677	0.17587046	3.1550587	21	3 9.7	18.8
78797 2002 XP_{68}	13.8	X	138.49406	273.51320	83.71109	23.10212	0.1662927	0.17373788	3.1808244	21	1 25.8	18.9
78798 2002 XW_{85}	15.1	X	279.79970	255.93921	52.08253	7.83552	0.1442942	0.28840938	2.2688013	21	3 28.2	18.2
78799 2002 XW_{93}	5.5	X	147.77444	248.00693	46.78547	14.34993	0.2526604	0.00430609	37.4179998	21	12 26.5	22.1
78800 2003 AR_{66}	13.6	X	50.61888	121.24821	86.32720	24.81124	0.1223652	0.17914239	3.1165240	21	6 17.8	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78801 2003 AK_{88}	15.2	X	51.42471	328.41959	175.95787	7.81282	0.3721206	0.16664497	3.2704530	21	5 7.7	18.8
78802 2003 CC_{16}	13.8	X	131.88314	284.44793	104.16900	16.80444	0.1889207	0.17334770	3.1855957	21	3 2.4	18.9
78803 2003 MK_{5}	14.7	X	280.48591	19.65472	273.04374	12.41162	0.1176449	0.20632376	2.8364157	21	3 11.9	19.1
78804 2003 NY_{8}	14.7	X	55.87953	26.08253	279.05796	12.23270	0.0578965	0.22854830	2.6494194	21	10 22.3	18.6
78805 2003 NN_{9}	16.7	X	139.38117	185.55325	124.48463	6.66093	0.1872493	0.29557743	2.2319710	21	—	—
78806 2003 OM_{5}	15.1	X	255.30191	197.36588	129.00071	12.45198	0.0788320	0.20522004	2.8465765	21	4 11.2	19.4
78807 2003 OR_{13}	15.2	X	249.81274	80.35073	276.66584	12.18827	0.2595768	0.25966800	2.4332707	21	4 13.2	19.6
78808 2003 OY_{14}	15.1	X	46.88829	37.44939	304.54466	12.67576	0.1973301	0.22749896	2.6575602	21	12 22.8	18.9
78809 2003 OR_{22}	13.0	X	77.62242	222.48694	177.62490	12.75413	0.3291885	0.12458525	3.9703151	21	2 3.8	18.4
78810 2003 ON_{31}	16.0	X	304.80707	51.01938	314.64945	3.53638	0.1680438	0.26867382	2.3785876	21	7 20.8	18.4
78811 2003 PD	15.3	X	107.80039	119.37241	190.98765	4.97427	0.1447163	0.17907350	3.1173232	21	12 31.0	20.4
78812 2003 PC_{1}	16.1	X	335.36984	190.63747	145.80791	2.77380	0.2168380	0.27101428	2.3648736	21	8 1.7	17.7
78813 2003 PT_{3}	15.7	X	188.84997	201.91215	162.57653	2.26220	0.0889535	0.19862334	2.9092600	21	3 13.9	20.2
78814 2003 PX_{3}	14.5	X	328.26754	215.81071	180.56416	3.22278	0.2628205	0.16497402	3.2924991	21	9 29.3	17.7
78815 2003 PN_{6}	12.8	X	60.15792	81.74770	314.08364	7.57029	0.1928177	0.12614691	3.9374794	21	—	—
78816 Caripito	15.4	X	49.59111	86.81882	277.95687	5.63595	0.2190032	0.17657417	3.1466705	21	—	—
78817 2003 QO_{1}	16.4	X	132.87205	88.16884	230.91501	2.48623	0.1525665	0.23855435	2.5748058	21	—	—
78818 2003 QR_{5}	14.3	X	84.19683	39.62535	249.57554	15.64385	0.1727983	0.17480492	3.1678671	21	11 16.2	19.2
78819 2003 QQ_{6}	14.8	X	89.46813	35.10700	354.19370	22.78960	0.2168684	0.18261219	3.0769200	21	1 18.7	19.2
78820 2003 QT_{6}	14.9	X	354.63958	148.92098	178.57348	4.52677	0.1112878	0.21771053	2.7366321	21	8 28.4	17.9
78821 2003 QB_{11}	14.8	X	280.23266	251.42072	159.54088	12.92557	0.1533604	0.21501046	2.7594953	21	8 14.4	18.3
78822 2003 QO_{12}	16.3	X	262.73631	19.47979	4.89457	4.96088	0.2456785	0.26642163	2.3919736	21	6 4.8	20.0
78823 2003 QA_{13}	15.0	X	138.19864	201.43637	107.35873	6.87040	0.1632833	0.18209328	3.0827628	21	—	—
78824 2003 QS_{13}	16.4	X	354.03387	247.21121	108.73132	2.82995	0.2256490	0.27510503	2.3413717	21	11 1.8	18.0
78825 2003 QF_{14}	16.1	X	162.55515	80.63925	200.08021	8.34840	0.1699023	0.23988035	2.5653085	21	—	—
78826 2003 QE_{17}	15.8	X	314.02032	150.41847	222.45137	4.80913	0.2537889	0.27256376	2.3559025	21	8 2.5	17.8
78827 2003 QS_{18}	16.3	X	328.54910	322.48680	136.89408	4.84553	0.0952351	0.28790275	2.2714622	21	—	—
78828 2003 QB_{21}	14.3	X	156.58879	254.47764	11.96660	15.86412	0.2208882	0.18046360	3.1012942	21	12 22.9	19.9
78829 2003 QA_{22}	15.1	X	64.20591	301.96021	306.66938	12.13543	0.1411643	0.22071623	2.7117306	21	8 31.9	18.9
78830 2003 QV_{24}	14.5	X	226.65292	334.32454	336.83269	8.16244	0.0741301	0.19086594	2.9875631	21	2 18.2	18.9
78831 2003 QT_{25}	14.9	X	230.59394	311.14558	261.83269	3.73013	0.0659011	0.18267113	3.0762581	21	—	—
78832 2003 QN_{26}	15.2	X	306.02913	146.89520	186.81569	7.52618	0.2074847	0.21150958	2.7898618	21	5 31.7	18.8
78833 2003 QU_{28}	16.0	X	21.37083	34.97151	358.16250	4.05526	0.1322019	0.28574464	2.2828847	21	—	—
78834 2003 QM_{35}	16.8	X	78.20143	338.17122	342.64774	3.46615	0.1766791	0.28676362	2.2774735	21	—	—
78835 2003 QH_{37}	16.6	X	133.48567	104.52033	201.99376	2.25161	0.1696742	0.29428243	2.2385141	21	—	—
78836 2003 QT_{39}	16.2	X	300.33397	34.51290	243.35169	1.02124	0.2237447	0.26060445	2.4274381	21	3 1.1	19.5
78837 2003 QG_{43}	14.0	X	62.35427	359.35158	34.58051	9.12730	0.1553211	0.17677755	3.1442566	21	—	—
78838 2003 QY_{43}	15.4	X	277.49987	195.21353	159.36027	3.30085	0.1041377	0.20900371	2.8121170	21	6 5.1	19.2
78839 2003 QM_{44}	16.3	X	5.59237	343.58338	314.97639	5.87656	0.1685918	0.27399178	2.3477095	21	8 14.9	17.9
78840 2003 QE_{47}	15.9	X	18.07358	187.60076	208.26722	3.06880	0.2317838	0.28190702	2.3035561	21	—	—
78841 2003 QG_{47}	15.8	X	179.12163	239.68806	189.98669	5.96464	0.1262381	0.25829293	2.4418990	21	5 22.1	19.5
78842 2003 QH_{47}	14.6	X	255.25535	212.39144	212.21480	11.89094	0.1861183	0.20946099	2.8080227	21	7 24.5	19.1
78843 2003 QL_{50}	16.0	X	195.98464	218.38477	95.27115	3.22704	0.0512484	0.24605260	2.5222265	21	1 9.1	19.4
78844 2003 QO_{51}	14.8	X	197.89707	41.92461	275.65564	9.37269	0.0990226	0.19285243	2.9670121	21	1 25.3	19.5
78845 2003 QZ_{53}	16.0	X	356.29185	231.14890	90.87981	2.99960	0.2390660	0.27396208	2.3478792	21	9 10.6	17.2
78846 2003 QN_{56}	16.5	X	126.91486	180.99875	139.21762	6.69222	0.1408418	0.29271269	2.2465100	21	—	—
78847 2003 QS_{56}	14.3	X	244.89405	53.05446	143.31964	11.09778	0.0622392	0.18048665	3.1010302	21	—	—
78848 2003 QH_{61}	14.8	X	315.14800	297.77013	154.63146	13.54098	0.2688753	0.22413137	2.6841140	21	12 8.9	17.2
78849 2003 QB_{62}	16.0	X	55.47248	288.29989	149.02316	5.88196	0.1234509	0.29356486	2.2421603	21	—	—
78850 2003 QC_{62}	14.9	X	50.24242	329.30547	20.84640	13.70665	0.1731528	0.22701021	2.6613733	21	—	—
78851 2003 QE_{62}	16.2	X	57.40723	292.84738	80.88242	4.96098	0.1607677	0.28611933	2.2808913	21	—	—
78852 2003 QR_{62}	16.3	X	22.42090	250.04529	115.37511	3.96365	0.2405575	0.27973265	2.3154777	21	—	—
78853 2003 QN_{64}	14.4	X	93.56478	23.34265	53.80703	13.05697	0.1773045	0.18566273	3.0431234	21	3 17.0	18.8
78854 2003 QP_{64}	14.6	X	95.25298	235.68867	146.78433	7.56332	0.3071840	0.18034255	3.1026819	21	1 23.6	18.8
78855 2003 QU_{66}	15.5	X	106.31510	318.99502	341.80326	4.42561	0.0977398	0.23085143	2.6317684	21	12 24.7	19.4
78856 2003 QR_{68}	16.3	X	103.34918	138.39410	241.38645	5.53435	0.1946033	0.29544969	2.2326142	21	—	—
78857 2003 QO_{70}	15.2	X	340.69084	41.53383	190.14018	23.41299	0.1000277	0.36678549	1.9328343	21	2 15.7	17.4
78858 2003 QX_{73}	15.6	X	272.31620	214.90011	184.16887	9.21838	0.1273185	0.21620414	2.7493290	21	7 21.8	19.5
78859 2003 QW_{76}	15.1	X	294.13270	69.84287	299.14159	2.76632	0.1131383	0.21303998	2.7764849	21	7 15.8	18.4
78860 2003 QH_{77}	14.4	X	108.84815	140.99465	199.08795	9.24270	0.0628336	0.18006328	3.1058891	21	—	—
78861 2003 QN_{77}	15.7	X	259.91442	177.45853	188.36481	12.49660	0.2523494	0.26214248	2.4179340	21	5 10.9	19.6
78862 2003 QS_{77}	14.1	X	20.98405	97.63521	354.40483	25.13631	0.2277844	0.17808789	3.1288144	21	—	—
78863 2003 QJ_{78}	13.9	X	326.88565	228.69609	191.18458	15.55057	0.0558421	0.16882308	3.2422625	21	11 11.3	18.3
78864 2003 QN_{78}	16.0	X	308.74269	118.95113	273.02979	3.32598	0.1321083	0.27102256	2.3648254	21	9 11.1	18.4
78865 2003 QX_{78}	14.1	X	183.76406	7.41258	8.55943	10.65847	0.1036870	0.19269791	2.9685979	21	3 24.1	18.7
78866 2003 QQ_{79}	14.0	X	18.56051	45.03271	24.19473	14.10380	0.1652754	0.22632545	2.6667386	21	—	—
78867 2003 QE_{81}	13.8	X	68.59248	264.21571	125.97106	2.61550	0.0567700	0.12799390	3.8995085	21	—	—
78868 2003 QE_{87}	15.9	X	213.80888	50.53672	339.35473	5.16891	0.0598095	0.26078499	2.4263176	21	5 4.8	19.4
78869 2003 QV_{88}	13.7	X	67.11315	303.97417	49.95187	6.60367	0.1495052	0.17157094	3.2075509	21	—	—
78870 2003 QO_{94}	16.2	X	132.59305	263.21348	82.39756	5.38298	0.2400989	0.24175737	2.5520131	21	—	—
78871 2003 QS_{95}	15.1	X	303.16037	4.13461	353.99243	7.13559	0.1529155	0.21261044	2.7802231	21	7 9.5	18.6
78872 2003 QP_{102}	15.8	X	19.05138	226.77180	162.84091	14.65277	0.0843447	0.23100695	2.6305871	21	12 30.4	19.5
78873 2003 QX_{103}	14.8	X	288.55499	315.73282	60.22193	6.79640	0.1407909	0.21296613	2.7771267	21	7 13.5	18.5
78874 2003 QE_{105}	16.2	X	137.01481	247.09166	153.39228	9.07527	0.1687666	0.24747409	2.5125587	21	3 5.9	19.9
78875 2003 RH_{1}	15.9	X	272.36288	227.60675	160.12395	5.69379	0.1218576	0.26676152	2.3899414	21	7 9.1	18.9
78876 2003 RE_{7}	14.8	X	37.74073	335.43796	16.61379	10.61999	0.1695463	0.22334932	2.6903759	21	12 17.6	18.5
78877 2003 RO_{10}	15.9	X	306.96166	173.77815	202.35364	10.61536	0.2113318	0.27027374	2.3691914	21	7 29.7	18.4
78878 2003 RK_{13}	16.8	X	314.75860	198.45904	194.95279	2.64790	0.1500343	0.27464415	2.3439903	21	9 26.0	18.6
78879 2003 RK_{15}	14.3	X	58.27095	169.31971	222.65642	15.29748	0.1378543	0.17971410	3.1099109	21	—	—
78880 2003 RR_{16}	16.1	X	76.16352	181.05184	179.11227	7.82684	0.1651928	0.29151866	2.2526401	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78881 2003 RL_{22}	14.7	X	273.14067	28.30547	312.10720	14.55230	0.1502043	0.20673193	2.8326811	21	4 28.9	19.2
78882 2003 RD_{23}	15.7	X	285.01607	109.04838	183.54149	5.79855	0.0873764	0.25836612	2.4414378	21	3 21.4	18.9
78883 2003 RJ_{25}	15.7	X	89.37919	203.58196	223.12956	13.28993	0.0851922	0.24566201	2.5248992	21	1 20.2	19.0
78884 2003 SW_{2}	14.0	X	225.41037	98.12058	348.47462	7.54731	0.1386205	0.15474513	3.4360388	21	7 29.9	19.4
78885 2003 SZ_{11}	15.2	X	231.92465	141.76258	179.39800	1.70414	0.0687481	0.19835623	2.9118711	21	3 6.2	19.6
78886 2003 SC_{12}	15.4	X	141.21301	199.64539	149.26896	2.61259	0.1080460	0.18747036	3.0235302	21	1 8.2	19.8
78887 2003 SS_{32}	15.9	X	251.30514	180.27579	179.31973	2.56627	0.1373181	0.26061779	2.4273552	21	5 4.2	19.5
78888 2003 SC_{33}	15.0	X	108.30780	242.58008	97.22398	2.56819	0.1763630	0.17973861	3.1096281	21	—	—
78889 2003 SA_{36}	15.9	X	291.25502	324.71835	44.46582	5.94192	0.2559310	0.26709964	2.3879241	21	6 17.1	18.8
78890 2003 SV_{39}	16.3	X	57.39962	312.64537	337.39380	6.23073	0.1133736	0.27620064	2.3351759	21	10 21.9	19.3
78891 2003 SH_{40}	14.4	X	104.40210	148.40482	210.70935	12.38413	0.1001115	0.18095151	3.0957169	21	—	—
78892 2003 SH_{46}	15.4	X	110.85152	294.77258	48.89615	1.33722	0.2263008	0.18118865	3.0930152	21	—	—
78893 2003 SJ_{48}	14.9	X	54.90635	74.71822	348.73891	4.06917	0.1633560	0.18167163	3.0875309	21	—	—
78894 2003 SM_{49}	16.2	X	209.87560	272.42707	213.78463	6.34311	0.0497795	0.27135061	2.3629191	21	9 11.8	19.5
78895 2003 SH_{53}	14.6	X	98.59168	358.53471	284.08780	8.84442	0.1811668	0.22445666	2.6815200	21	11 29.4	19.0
78896 2003 SH_{57}	15.1	X	149.28248	240.10960	251.70203	0.93040	0.0268763	0.20644083	2.8353433	21	7 4.5	19.2
78897 2003 SB_{58}	15.3	X	14.67780	79.98726	19.83920	13.63725	0.0093373	0.23695643	2.5863684	21	—	—
78898 2003 SS_{58}	15.9	X	161.24737	218.35263	220.88459	11.24726	0.1463600	0.25762098	2.4461433	21	5 16.7	19.5
78899 2003 SA_{62}	15.7	X	112.29135	300.79171	55.41618	7.30521	0.1224227	0.23898152	2.5717367	21	—	—
78900 2003 SM_{65}	15.7	X	40.47588	160.31845	197.11941	14.76014	0.1258918	0.22871241	2.6481519	21	12 22.8	19.5
78901 2003 ST_{66}	14.3	X	79.63957	177.29036	198.02494	11.45017	0.2291607	0.17864315	3.1223276	21	—	—
78902 2003 SM_{67}	14.7	X	210.94619	276.59864	27.14540	12.09385	0.1652163	0.19085974	2.9876278	21	1 27.7	19.8
78903 2003 SP_{79}	14.8	X	185.57131	125.38790	343.06902	13.12833	0.0888866	0.20900363	2.8121177	21	7 21.7	19.2
78904 2003 SE_{81}	15.2	X	30.06421	266.23161	44.38612	4.55518	0.1066306	0.21768124	2.7368776	21	10 5.5	18.4
78905 Seanokeefe	14.6	X	139.60079	292.16968	211.56459	21.43850	0.2529931	0.26262261	2.4149861	21	7 19.0	19.2
78906 2003 SY_{85}	16.7	X	269.56843	49.20859	332.97626	3.42878	0.2067936	0.26428229	2.4048648	21	6 15.2	19.9
78907 2003 SR_{90}	16.2	X	148.58541	240.64079	85.70940	6.48267	0.2071058	0.29586115	2.2305438	21	—	—
78908 2003 ST_{90}	14.9	X	34.75664	358.39195	34.22640	13.80853	0.2835052	0.22896867	2.6461757	21	—	—
78909 2003 SF_{95}	14.5	X	209.88467	56.38476	220.13580	8.97546	0.0588471	0.18530852	3.0470000	21	—	—
78910 2003 SJ_{97}	14.5	X	337.62884	216.13379	262.25247	8.52088	0.0083557	0.17971726	3.1098745	21	—	—
78911 2003 SY_{97}	14.9	X	317.78408	103.05640	305.19713	13.97528	0.0377707	0.22071440	2.7117456	21	10 14.3	18.7
78912 2003 SK_{99}	13.6	X	324.24578	131.80640	317.43632	16.91342	0.1642723	0.17277335	3.1926517	21	12 8.8	17.6
78913 2003 SP_{99}	14.4	X	209.18975	8.50324	341.33074	11.44547	0.0618779	0.19481804	2.9470213	21	3 15.5	18.9
78914 2003 SF_{101}	14.2	X	55.03781	76.01078	308.33705	14.23880	0.1854475	0.17719827	3.1392777	21	—	—
78915 2003 SW_{101}	15.2	X	295.04799	95.07296	291.78537	4.99073	0.0562435	0.21319869	2.7751068	21	8 17.6	18.8
78916 2003 SX_{104}	15.9	X	257.05961	80.07373	10.75884	4.84262	0.0489994	0.27226814	2.3576075	21	9 29.2	18.7
78917 2003 SG_{106}	14.0	X	351.86869	183.50301	263.50645	9.51071	0.1957566	0.17545843	3.1599962	21	—	—
78918 2003 SR_{107}	15.2	X	17.64957	192.18008	207.87225	12.39973	0.2470668	0.22692965	2.6620031	21	—	—
78919 2003 SG_{108}	15.7	X	336.39534	102.42794	250.79864	4.25886	0.2033742	0.27149964	2.3620543	21	9 2.6	17.5
78920 2003 SM_{108}	16.3	X	67.65888	171.17373	215.08122	6.07187	0.1269638	0.28911944	2.2650851	21	—	—
78921 2003 SP_{108}	16.2	X	312.44453	40.66062	289.46029	2.54388	0.1412116	0.26471288	2.4022563	21	6 13.6	18.8
78922 2003 SL_{109}	15.9	X	176.50365	338.59993	310.48526	6.20104	0.1048361	0.29153069	2.2525781	21	—	—
78923 2003 SA_{111}	15.1	X	4.69715	47.05359	264.73684	3.26554	0.0599782	0.21203883	2.7852175	21	8 20.1	18.6
78924 2003 SD_{111}	16.1	X	57.48485	333.95282	43.36158	9.90437	0.1388585	0.28438935	2.2901319	21	—	—
78925 2003 SC_{112}	16.1	X	164.30793	202.96754	128.59341	5.94923	0.1865142	0.29776028	2.2210494	21	—	—
78926 2003 SC_{126}	15.7	X	252.85452	270.44137	212.50194	13.65626	0.0459489	0.22258583	2.6965245	21	10 30.4	19.3
78927 2003 SN_{128}	16.6	X	26.77316	150.00445	165.43641	4.83220	0.2705769	0.27521795	2.3407312	21	11 12.8	19.1
78928 2003 SR_{128}	14.0	X	223.09120	282.33691	117.68097	14.30511	0.3245849	0.20098893	2.8863874	21	5 23.5	19.5
78929 2003 SL_{137}	16.6	X	9.28615	209.47726	211.22747	6.15849	0.0844828	0.28407105	2.2918423	21	—	—
78930 2003 SE_{142}	16.0	X	124.40548	210.13231	31.36081	9.27796	0.0669088	0.27608010	2.3358556	21	11 4.1	19.1
78931 2003 SN_{142}	15.5	X	356.40308	242.93407	138.78799	4.49492	0.0908463	0.22156790	2.7047771	21	11 16.7	18.7
78932 2003 SU_{144}	13.7	X	337.99825	60.74913	56.24018	17.12539	0.0473034	0.17691550	3.1426218	21	—	—
78933 2003 SB_{145}	14.2	X	144.72575	78.72381	236.91791	13.45352	0.0826476	0.17985684	3.1082653	21	—	—
78934 2003 SM_{147}	15.9	X	327.91244	54.01254	4.38887	5.07794	0.2322304	0.27474256	2.3434306	21	12 7.4	17.3
78935 2003 SF_{148}	12.7	X	319.52657	80.07811	23.78724	24.49282	0.1393268	0.17481177	3.1677843	21	12 17.6	17.0
78936 2003 SG_{154}	14.9	X	126.94850	344.31619	63.26426	11.61581	0.0973671	0.19264292	2.9691628	21	3 7.8	19.4
78937 2003 SZ_{155}	16.6	X	2.65048	248.19087	48.50676	1.83234	0.1835257	0.26885600	2.3775130	21	8 6.5	18.2
78938 2003 SR_{156}	15.4	X	86.83368	282.96491	5.20174	12.40723	0.1652958	0.22532929	2.6745924	21	11 20.7	19.7
78939 2003 SF_{161}	15.5	X	297.56564	341.40928	24.43026	4.57917	0.2398313	0.21293377	2.7774081	21	6 25.8	19.0
78940 2003 SD_{167}	15.8	X	12.00353	172.76739	227.11040	7.34267	0.1678588	0.28151666	2.3056851	21	—	—
78941 2003 SN_{169}	16.0	X	245.39229	286.80648	158.15376	6.09589	0.0939732	0.27005629	2.3704630	21	8 27.8	18.9
78942 2003 SA_{171}	16.5	X	286.79133	248.51797	133.23825	4.34266	0.2213605	0.26563155	2.3967143	21	7 4.9	19.5
78943 2003 SL_{171}	14.5	X	92.62217	324.56601	29.02076	9.83330	0.0929414	0.17882770	3.1201791	21	—	—
78944 2003 SD_{173}	16.6	X	130.01057	227.36476	153.03521	6.17918	0.1078325	0.29922395	2.2138005	21	1 9.9	19.1
78945 2003 SY_{189}	14.9	X	61.52795	8.86142	57.29108	2.86737	0.1349793	0.18525074	3.0476336	21	1 2.7	18.5
78946 2003 SY_{191}	14.4	X	214.77548	298.21165	323.28830	10.99225	0.2801250	0.24061772	2.5600649	21	—	—
78947 2003 SD_{192}	15.0	X	187.34789	65.61535	334.29580	10.09424	0.1120771	0.19719388	2.9233025	21	4 20.3	19.8
78948 2003 SM_{192}	14.9	X	178.65829	137.87984	221.48537	14.28302	0.0785064	0.19038870	2.9925536	21	2 20.5	19.7
78949 2003 SU_{199}	16.0	X	95.76822	7.57581	346.03834	5.36238	0.1663091	0.28823862	2.2696973	21	—	—
78950 2003 SC_{204}	15.6	X	161.15257	346.13570	67.82519	3.01452	0.1066150	0.19577862	2.9373737	21	4 16.7	20.0
78951 2003 SM_{205}	15.3	X	37.03684	131.85585	183.45521	5.95556	0.0642435	0.21863800	2.7288874	21	10 15.4	18.7
78952 2003 SG_{214}	16.0	X	1.47614	171.33260	186.75950	5.84678	0.0384812	0.21670946	2.7450535	21	10 18.4	19.5
78953 2003 SC_{217}	14.8	X	91.48443	41.46644	37.02873	5.93856	0.2005111	0.18641400	3.0349418	21	3 14.7	18.9
78954 2003 SK_{218}	15.3	X	157.18222	214.07028	56.68055	0.84358	0.1688119	0.17600199	3.1534867	21	12 28.6	20.5
78955 2003 SQ_{221}	15.5	X	198.67724	216.82770	355.78798	8.22768	0.0885877	0.28299806	2.2976317	21	12 22.7	18.6
78956 2003 ST_{223}	15.3	X	26.92119	258.04006	75.49617	3.11947	0.1676928	0.21983719	2.7189545	21	11 8.9	18.5
78957 2003 SE_{226}	13.8	X	12.70503	233.02491	202.76944	16.44199	0.1009016	0.17503800	3.1650542	21	—	—
78958 2003 SU_{228}	14.4	X	52.06956	227.78169	218.35782	6.99267	0.1266794	0.18171153	3.0870789	21	1 11.6	18.2
78959 2003 SL_{232}	14.2	X	348.56124	29.71982	56.40927	6.24344	0.1236192	0.17365426	3.1818455	21	—	—
78960 2003 SX_{237}	15.4	X	174.65921	91.29497	182.94340	6.44356	0.0275893	0.23305462	2.6151558	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
78961 2003 SM_{245}	15.1	X	90.12276	252.31374	2.41657	14.73190	0.2047552	0.22250315	2.6971925	21	10 17.6	19.4
78962 2003 SP_{249}	16.6	X	192.64833	263.03642	34.56456	4.59238	0.1558149	0.29713973	2.2241406	21	—	—
78963 2003 SR_{250}	15.0	X	82.36205	47.10277	30.24012	9.59132	0.2321942	0.18391583	3.0623628	21	3 7.8	19.0
78964 2003 SR_{251}	15.8	X	71.54216	339.04457	34.66449	6.98240	0.1448868	0.28606929	2.2811573	21	—	—
78965 2003 SY_{272}	14.5	X	134.96484	330.53934	298.93008	4.61788	0.1710838	0.17392088	3.1785928	21	12 8.6	19.8
78966 2003 SO_{275}	15.6	X	136.09789	199.56145	229.13929	1.02311	0.0816137	0.19479436	2.9472601	21	4 4.4	20.0
78967 2003 SK_{277}	13.9	X	322.70901	240.09372	215.64319	16.87935	0.1126064	0.17240326	3.1972192	21	12 15.7	18.1
78968 2003 SL_{291}	16.0	X	181.75221	233.53169	226.72149	3.47503	0.0779932	0.25970429	2.4330441	21	7 3.0	19.5
78969 2003 SO_{294}	14.7	X	181.57956	99.92710	184.11865	6.55614	0.2625119	0.18136891	3.0909655	21	—	—
78970 2003 SB_{298}	14.3	X	270.27936	257.58419	233.58302	14.30574	0.1058122	0.17170842	3.2058386	21	11 15.0	18.6
78971 2003 SA_{303}	16.5	X	284.20329	181.66394	269.55081	3.60756	0.1125488	0.27549112	2.3391836	21	10 30.6	19.0
78972 2003 SH_{304}	14.5	X	47.01363	258.77735	178.53151	10.87428	0.0433631	0.18207326	3.0829888	21	—	—
78973 2003 ST_{306}	15.5	X	170.31870	39.59998	244.79633	14.68599	0.1433933	0.23424538	2.6062857	21	—	—
78974 2003 SF_{307}	14.0	X	2.67136	168.86139	268.34511	17.22981	0.2718233	0.17402350	3.1773432	21	—	—
78975 2003 SK_{313}	16.6	X	120.46998	342.16186	45.36342	5.90300	0.1857497	0.29724499	2.2236155	21	1 21.8	19.1
78976 2003 TO_{14}	15.2	X	53.73447	136.85103	168.96033	13.31109	0.0674773	0.21958659	2.7210227	21	10 28.6	19.0
78977 2003 TL_{18}	16.1	X	45.02467	11.75077	344.36177	3.08148	0.1441575	0.28081194	2.3095410	21	—	—
78978 2003 UX_{22}	15.1	X	317.41227	19.81460	42.61486	7.17124	0.0722084	0.21908418	2.7251811	21	11 7.3	18.4
78979 2003 UC_{24}	15.8	X	355.00545	293.75502	35.29029	3.40539	0.0397481	0.26728566	2.3868160	21	9 5.6	18.4
78980 2003 UH_{36}	14.9	X	337.04136	302.78441	342.18489	11.46406	0.0372068	0.20330531	2.8644213	21	6 2.2	18.9
78981 2003 UB_{40}	15.7	X	192.74822	219.10655	172.17182	2.07297	0.0873808	0.19579530	2.9372069	21	4 20.1	20.1
78982 2003 UN_{47}	15.5	X	337.72014	143.90304	220.47284	7.57356	0.2418761	0.21582549	2.7525437	21	9 12.9	18.0
78983 2003 UA_{49}	15.3	X	349.62406	201.83927	139.35335	3.62985	0.0912476	0.21341697	2.7732142	21	9 9.1	18.5
78984 2003 UR_{49}	14.9	X	139.78278	64.17146	338.80019	9.57028	0.1457310	0.18988536	2.9978396	21	3 14.0	19.5
78985 2003 UH_{52}	14.9	X	295.73257	137.61984	343.70264	12.94177	0.1338538	0.22454637	2.6808058	21	12 18.2	18.2
78986 2003 UY_{65}	13.8	X	28.93619	7.37790	48.76389	28.70927	0.1511492	0.17539455	3.1607634	21	—	—
78987 2003 UD_{66}	14.3	X	57.48484	343.98734	90.70766	14.63466	0.0897321	0.18208176	3.0828928	21	1 4.2	18.3
78988 2003 UQ_{86}	15.3	X	86.46932	229.00049	127.72503	4.93583	0.1541080	0.23118248	2.6292554	21	—	—
78989 2003 UF_{95}	14.3	X	114.47985	302.47404	54.86558	10.10533	0.0735096	0.17987481	3.1080582	21	—	—
78990 2003 UJ_{102}	15.3	X	53.51385	201.31176	148.13190	6.64574	0.0914835	0.22509533	2.6764454	21	12 24.1	19.0
78991 2003 UH_{169}	14.2	X	104.24704	331.93337	49.38850	10.69957	0.0869877	0.17905850	3.1174974	21	1 3.4	18.6
78992 2003 UC_{188}	15.2	X	2.16359	329.48851	331.44996	2.07203	0.0459169	0.20816687	2.8196485	21	8 2.4	18.8
78993 2003 UK_{208}	16.2	X	246.67203	293.54833	151.79173	1.61893	0.1573951	0.26608391	2.3939972	21	8 20.7	19.4
78994 2003 UR_{224}	15.6	X	215.53244	216.83761	358.59203	5.09418	0.0098525	0.22808110	2.6530362	21	—	—
78995 2047 *P–L*	16.1	X	252.26173	315.91463	4.53281	6.62920	0.0975369	0.30149808	2.2026543	21	3 13.6	19.0
78996 2080 *P–L*	16.4	X	176.21441	81.50909	294.03511	2.24628	0.1996305	0.30012000	2.2093919	21	3 8.0	19.7
78997 2121 *P–L*	15.7	X	80.77402	64.54448	6.39258	14.49837	0.1863934	0.23268175	2.6179489	21	2 9.6	18.8
78998 2504 *P–L*	14.6	X	192.04914	28.63244	7.13745	9.54063	0.0933935	0.18832932	3.0143297	21	4 22.6	19.3
78999 2614 *P–L*	15.6	X	99.04047	165.45843	184.13372	3.21747	0.1469992	0.23088283	2.6315298	21	—	—
79000 2689 *P–L*	15.3	X	316.70913	47.12926	25.46021	4.62544	0.0462954	0.21172407	2.7879773	21	11 18.6	18.9
79001 2749 *P–L*	16.5	X	16.47490	243.75813	144.49863	3.35386	0.1998181	0.27710423	2.3300967	21	—	—
79002 2774 *P–L*	16.0	X	220.61820	3.64323	49.30697	2.80939	0.1631387	0.25486039	2.4637756	21	6 8.7	19.8
79003 3519 *P–L*	15.7	X	230.69825	110.68326	252.24836	6.93874	0.1783981	0.30222781	2.1991074	21	4 7.9	19.1
79004 4134 *P–L*	16.5	X	89.05675	140.23899	350.84650	5.53778	0.0765572	0.30131358	2.2035534	21	4 11.5	18.9
79005 4220 *P–L*	15.3	X	356.16342	98.50398	309.76227	4.40319	0.1321717	0.21216562	2.7841077	21	12 21.8	18.6
79006 4261 *P–L*	15.1	X	303.03883	219.46680	204.80106	3.90597	0.0528739	0.21065829	2.7973728	21	10 19.7	18.7
79007 4289 *P–L*	16.1	X	0.01524	62.99524	353.41318	4.44226	0.1035877	0.27760113	2.3273153	21	—	—
79008 4306 *P–L*	16.1	X	44.80115	167.12820	267.74533	1.42377	0.1501572	0.23151915	2.6267058	21	—	—
79009 4707 *P–L*	16.1	X	170.21506	294.44027	157.62345	2.73397	0.1637272	0.25412653	2.4685166	21	6 11.8	20.0
79010 4851 *P–L*	14.5	X	306.65003	251.60038	12.94006	8.98827	0.1103860	0.18812876	3.0164717	21	3 20.4	18.5
79011 6312 *P–L*	16.1	X	89.52055	9.85967	347.05575	4.81935	0.2214248	0.27954612	2.3165076	21	—	—
79012 6678 *P–L*	15.7	X	227.91737	30.77397	4.32195	3.99012	0.1464078	0.25494838	2.4632087	21	5 23.9	19.5
79013 9056 *P–L*	15.8	X	271.75991	320.79855	352.87708	5.86139	0.1549169	0.30266240	2.1970018	21	3 19.5	18.7
79014 9520 *P–L*	15.3	X	230.14304	59.55778	55.32875	3.33144	0.1213810	0.25791594	2.4442780	21	9 15.9	18.6
79015 9548 *P–L*	15.1	X	186.76203	158.31788	161.36861	4.32752	0.2286863	0.18523676	3.0477869	21	1 24.1	20.4
79016 2094 *T–1*	16.7	X	9.66675	118.56987	34.25556	2.93894	0.0976629	0.29329219	2.2435498	21	—	—
79017 2117 *T–1*	15.7	X	245.52965	217.12207	19.01552	3.38756	0.1216667	0.29014833	2.2597271	21	—	—
79018 2126 *T–1*	14.4	X	263.96614	116.97275	138.50043	2.48071	0.1233779	0.17371243	3.1811352	21	1 19.9	19.2
79019 1071 *T–2*	15.7	X	46.54333	350.38809	3.92923	6.53948	0.1447747	0.27062640	2.3671327	21	—	—
79020 1085 *T–2*	17.1	X	279.12414	82.73817	320.28893	1.72360	0.1895197	0.26512637	2.3997579	21	7 30.5	19.9
79021 1160 *T–2*	15.5	X	14.45611	324.04456	352.57052	7.59843	0.0935451	0.26668355	2.3904073	21	9 21.5	18.1
79022 1200 *T–2*	15.2	X	33.36065	103.42163	356.26473	13.17592	0.1586964	0.23316778	2.6143096	21	—	—
79023 1213 *T–2*	16.8	X	245.87242	335.56607	3.39912	1.73729	0.1588788	0.30198884	2.2002674	21	3 26.0	20.1
79024 1247 *T–2*	16.8	X	291.79471	212.86122	195.97448	2.57485	0.1698416	0.26599406	2.3945363	21	8 31.2	19.3
79025 1318 *T–2*	15.8	X	107.30246	51.98844	9.38433	9.63806	0.0803769	0.23591241	2.5939934	21	2 16.8	19.2
79026 1322 *T–2*	16.0	X	318.14826	215.05372	157.27368	2.40035	0.1356103	0.26606270	2.3941244	21	8 30.9	18.2
79027 1337 *T–2*	14.5	X	281.03895	224.22349	72.51006	1.69761	0.1411731	0.17776371	3.1326171	21	3 25.6	19.1
79028 1441 *T–2*	15.4	X	23.24974	340.67195	358.40829	2.40645	0.0372445	0.20642782	2.8354624	21	10 20.7	19.2
79029 1503 *T–2*	16.3	X	264.14308	229.95625	215.96057	2.14882	0.1502108	0.26608431	2.3939948	21	9 13.9	19.0
79030 2027 *T–2*	16.3	X	244.38945	109.69070	321.16882	1.72290	0.1828926	0.26418301	2.4054673	21	7 26.0	19.5
79031 2073 *T–2*	14.1	X	101.44239	336.68584	3.48699	6.52186	0.0923157	0.16909974	3.2387251	21	—	—
79032 2134 *T–2*	15.8	X	59.70887	64.60380	341.71203	1.62681	0.1184865	0.23217666	2.6217443	21	—	—
79033 2185 *T–2*	14.5	X	7.84360	59.76518	29.98668	1.56351	0.1629332	0.17060814	3.2196072	21	—	—
79034 2228 *T–2*	16.4	X	353.25472	25.92815	299.16622	1.27459	0.2204015	0.26620698	2.3932593	21	9 1.3	17.9
79035 2247 *T–2*	14.7	X	321.00525	28.18087	324.51731	1.18130	0.0817451	0.20319911	2.8654193	21	8 7.8	18.2
79036 3063 *T–2*	14.7	X	50.36091	79.87375	9.50562	14.77381	0.0800167	0.23428896	2.6059625	21	—	—
79037 3116 *T–2*	16.2	X	251.89583	314.11748	116.48265	2.11263	0.1535035	0.26484860	2.4014355	21	8 7.6	19.3
79038 3144 *T–2*	16.8	X	310.57098	229.25851	133.07318	2.92022	0.1741199	0.26537384	2.3982658	21	7 24.8	19.2
79039 3169 *T–2*	15.8	X	185.46549	26.53036	15.70111	8.61888	0.1420189	0.30131131	2.2035645	21	4 17.6	18.9
79040 3196 *T–2*	16.5	X	332.70042	290.91401	30.56217	2.88475	0.1752166	0.26502104	2.4003937	21	7 5.3	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79041 3234 *T–2*	15.8	*X*	337.70109	314.66385	67.83418	3.63730	0.2109062	0.26766526	2.3845589	21	10 31.4	17.4
79042 3249 *T–2*	15.8	*X*	102.80815	351.06879	38.97962	4.50601	0.1063285	0.23404700	2.6077582	21	1 1.7	19.0
79043 3330 *T–2*	16.1	*X*	20.39248	130.88290	163.99613	3.67154	0.2097422	0.26682074	2.3895878	21	9 17.3	18.0
79044 3919 *T–2*	16.1	*X*	279.80639	301.60033	150.33645	4.95206	0.1934930	0.26723620	2.3871105	21	10 12.9	18.7
79045 4071 *T–2*	14.5	*X*	20.44040	244.15519	68.55288	3.65378	0.0424767	0.20454899	2.8527989	21	9 15.4	18.2
79046 4113 *T–2*	15.4	*X*	110.17425	284.87508	83.72181	1.69174	0.1345707	0.23334932	2.6129535	21	—	—
79047 4184 *T–2*	15.9	*X*	295.32232	338.87298	66.71979	1.90291	0.1662587	0.26600207	2.3944882	21	9 4.4	18.1
79048 4200 *T–2*	16.4	*X*	321.43234	225.78250	109.22138	3.08617	0.1986340	0.26489704	2.4011428	21	6 28.8	18.4
79049 4207 *T–2*	15.9	*X*	35.43466	188.48045	173.89317	9.30713	0.1270536	0.22892485	2.6465133	21	12 23.5	19.5
79050 4649 *T–2*	15.6	*X*	34.05038	107.22193	14.05097	13.35844	0.1247586	0.23452494	2.6042142	21	1 17.2	18.7
79051 5091 *T–2*	16.2	*X*	351.11928	70.87935	276.89451	5.90602	0.1358570	0.26684200	2.3894609	21	9 25.8	18.5
79052 5142 *T–2*	14.1	*X*	308.67584	262.72779	314.07597	11.30149	0.2234124	0.23689246	2.5868340	21	—	—
79053 5153 *T–2*	15.9	*X*	321.37435	170.37362	247.89437	5.60772	0.1237527	0.26836464	2.3804141	21	11 17.6	18.1
79054 1046 *T–3*	15.8	*X*	22.32185	8.21921	356.87352	11.93794	0.2305153	0.22631328	2.6668342	21	12 24.7	19.3
79055 1063 *T–3*	14.9	*X*	247.30724	51.80543	253.46785	8.85989	0.0683987	0.19163774	2.9795363	21	2 28.3	19.5
79056 1132 *T–3*	16.2	*X*	351.00549	126.04467	241.44799	7.75081	0.2509689	0.26949369	2.3737610	21	11 13.6	17.6
79057 1183 *T–3*	16.0	*X*	8.71931	115.67256	281.15417	3.90722	0.1419311	0.27184735	2.3600397	21	—	—
79058 1215 *T–3*	15.2	*X*	32.76616	329.61733	357.76736	15.76016	0.2350871	0.22551142	2.6731522	21	11 14.5	18.8
79059 2014 *T–3*	15.3	*X*	140.12323	79.67777	348.40344	3.23711	0.0946425	0.19187624	2.9770669	21	4 9.2	19.7
79060 2281 *T–3*	15.5	*X*	3.28226	34.22097	219.31722	4.86544	0.1677363	0.24141757	2.5544072	21	5 26.1	17.6
79061 2286 *T–3*	16.1	*X*	52.81944	282.52339	357.30586	7.05984	0.1054645	0.26819251	2.3814325	21	9 30.8	19.0
79062 2449 *T–3*	16.1	*X*	248.76697	58.39072	304.17778	1.12867	0.1146700	0.30778706	2.1725468	21	5 3.0	19.0
79063 2499 *T–3*	15.3	*X*	347.87383	333.08524	334.67073	1.90701	0.0718108	0.19803511	2.9150181	21	7 20.3	18.9
79064 2536 *T–3*	15.0	*X*	300.50312	258.52778	353.95407	7.94306	0.0842256	0.23661770	2.5888361	21	2 21.9	18.5
79065 3102 *T–3*	16.3	*X*	320.89946	262.96712	111.68626	2.35735	0.1831252	0.26771066	2.3842893	21	9 5.7	18.0
79066 3172 *T–3*	16.9	*X*	348.40612	65.20603	320.47842	0.54699	0.1921351	0.26997923	2.3709141	21	11 29.0	18.8
79067 3221 *T–3*	14.8	*X*	253.39211	182.95469	190.52641	1.83281	0.1079546	0.19611083	2.9340556	21	5 31.1	19.1
79068 3258 *T–3*	16.2	*X*	17.66071	284.74630	32.23940	6.22478	0.1524650	0.26854502	2.3793481	21	10 8.3	18.4
79069 3275 *T–3*	16.8	*X*	330.89428	296.93273	25.95093	2.95508	0.2344013	0.26642901	2.3919295	21	6 23.8	18.7
79070 3282 *T–3*	15.4	*X*	318.54792	116.60122	145.85215	2.06101	0.0357661	0.19325675	2.9628724	21	4 11.8	19.4
79071 3300 *T–3*	15.0	*X*	186.45090	94.38811	342.93453	1.22539	0.0548181	0.19543859	2.9407798	21	6 9.4	19.3
79072 3337 *T–3*	15.6	*X*	70.04338	290.17864	100.93793	1.46985	0.0884988	0.23039086	2.6352747	21	—	—
79073 3410 *T–3*	16.4	*X*	20.98564	289.83981	4.28212	0.99253	0.1845371	0.26775228	2.3840422	21	9 12.9	18.6
79074 3530 *T–3*	15.0	*X*	175.18437	165.28310	269.50253	0.92632	0.0861214	0.19458539	2.9493698	21	5 25.2	19.6
79075 3704 *T–3*	16.6	*X*	317.11399	345.89883	328.07597	0.70849	0.1913213	0.26503353	2.4003183	21	5 19.2	19.0
79076 3782 *T–3*	16.9	*X*	233.12381	232.19068	218.98799	1.33582	0.1852175	0.26542364	2.3979658	21	8 9.1	20.4
79077 4122 *T–3*	16.2	*X*	253.73976	13.80691	89.54355	3.22239	0.1432898	0.26780750	2.3837144	21	9 28.0	19.1
79078 4188 *T–3*	16.2	*X*	38.62320	235.52007	104.97641	4.66603	0.1994798	0.29389217	2.2404953	21	12 23.9	18.8
79079 4302 *T–3*	16.2	*X*	35.50989	167.81568	125.72562	3.08881	0.2368730	0.26896275	2.3768838	21	10 19.2	18.8
79080 4502 *T–3*	15.8	*X*	321.05244	205.11758	81.19876	6.27349	0.1053425	0.30805261	2.1712981	21	4 27.1	17.9
79081 4673 *T–3*	16.3	*X*	33.23030	297.18899	52.44757	7.36858	0.1309970	0.27108443	2.3644656	21	12 13.3	19.1
79082 5047 *T–3*	16.2	*X*	303.74758	258.44765	135.74133	6.66374	0.1678895	0.26748001	2.3856597	21	9 2.8	18.5
79083 5068 *T–3*	15.5	*X*	6.93465	34.20503	54.26352	12.22300	0.1499271	0.22927734	2.6438002	21	—	—
79084 5650 *T–3*	15.5	*X*	220.48554	117.90246	90.62981	9.97133	0.1811084	0.27406902	2.3472684	21	12 29.1	18.6
79085 1975 SE_1	15.3	*X*	57.73870	306.62270	23.85147	9.98791	0.2442940	0.26038809	2.4287826	21	12 31.7	19.1
79086 Gorgasali	14.5	*X*	198.47879	302.00011	343.36087	33.10068	0.2781611	0.21310073	2.7759572	21	—	—
79087 Scheidt	14.3	*X*	204.08065	101.68362	271.15360	12.76957	0.1975989	0.23785739	2.5798331	21	3 28.9	18.9
79088 1978 VB_4	15.6	*X*	102.57182	145.51960	251.85364	4.74088	0.1590800	0.28276838	2.2988757	21	1 4.8	17.9
79089 1978 VX_{10}	16.5	*X*	60.14876	22.45505	38.48762	3.49253	0.1952485	0.28108681	2.3080351	21	—	—
79090 1979 MZ_8	14.7	*X*	33.38896	126.05811	272.49395	8.65267	0.2694558	0.21778134	2.7360389	21	—	—
79091 1979 OB_{11}	15.6	*X*	292.31179	149.82537	259.47500	5.58168	0.1048605	0.26013689	2.4303459	21	9 9.2	18.5
79092 1981 DT_1	14.7	*X*	257.57677	330.79497	243.32434	7.88567	0.2071401	0.21492867	2.7601953	21	—	—
79093 1981 EU_{10}	16.3	*X*	337.59841	298.01512	309.45000	4.53897	0.1454794	0.29564531	2.2316293	21	3 16.4	18.7
79094 1981 ED_{13}	15.2	*X*	32.81592	117.50301	317.41792	6.45735	0.1353930	0.21614954	2.7497919	21	—	—
79095 1981 EL_{15}	15.3	*X*	241.81649	330.00437	256.37903	4.25139	0.1416536	0.21458614	2.7631318	21	—	—
79096 1981 EM_{20}	14.2	*X*	47.57638	159.01978	4.90734	8.39936	0.1367459	0.12514723	3.9584202	21	4 21.8	19.3
79097 1981 EC_{24}	14.0	*X*	31.47447	15.91612	194.32268	2.42032	0.1268879	0.12565925	3.9476599	21	5 25.8	19.0
79098 1981 EE_{26}	16.0	*X*	176.69171	330.59588	189.89155	4.37330	0.1421114	0.25557883	2.4591563	21	9 14.2	19.7
79099 1981 EG_{29}	15.1	*X*	348.25563	282.79854	185.59290	9.20730	0.1974380	0.21609347	2.7502676	21	—	—
79100 1981 EH_{30}	15.1	*X*	36.82805	345.57202	175.62610	8.50327	0.1394903	0.17265201	3.1941475	21	3 28.9	18.7
79101 1981 EJ_{31}	16.1	*X*	211.09479	42.96434	167.68315	5.13995	0.1160535	0.26077979	2.4263499	21	12 26.6	19.4
79102 1981 EP_{31}	15.5	*X*	129.38635	294.30637	18.90868	3.75411	0.2178980	0.26088688	2.4256859	21	—	—
79103 1981 EO_{32}	15.5	*X*	181.23366	21.48507	274.23490	3.90711	0.0376584	0.21565645	2.7539819	21	—	—
79104 1981 EK_{33}	15.6	*X*	145.50572	356.04281	292.22876	5.13094	0.0400731	0.21291025	2.7776126	21	—	—
79105 1981 EY_{33}	15.5	*X*	352.36878	218.41780	216.17533	3.63489	0.0493837	0.21306677	2.7762521	21	—	—
79106 1981 EW_{34}	16.0	*X*	249.50349	133.83255	352.49570	7.32085	0.1133203	0.25896639	2.4376636	21	10 22.8	19.3
79107 1981 EX_{37}	16.6	*X*	37.00798	38.82659	202.61710	3.72838	0.0644768	0.29986389	2.2106497	21	7 4.9	18.9
79108 1981 EB_{38}	15.6	*X*	236.08794	259.83378	327.84473	3.93247	0.0684157	0.21472005	2.7619829	21	—	—
79109 1981 EN_{39}	15.3	*X*	156.55104	85.90594	188.30625	3.03920	0.0549280	0.21274989	2.7790082	21	—	—
79110 1981 EH_{40}	15.4	*X*	181.46890	227.26041	5.59994	3.89407	0.1442202	0.21117294	2.7928260	21	12 11.6	20.0
79111 1981 ES_{40}	14.6	*X*	344.06695	250.94298	186.92019	8.57679	0.2710091	0.21437625	2.7649350	21	—	—
79112 1981 EE_{42}	14.5	*X*	89.94287	271.05547	173.60783	13.78248	0.1343579	0.17214844	3.2003735	21	3 9.9	18.8
79113 1981 EP_{45}	14.8	*X*	323.28725	275.49484	344.68028	13.66355	0.1481129	0.17230060	3.1984890	21	3 28.9	19.0
79114 1981 EJ_{46}	15.2	*X*	238.83215	293.21315	209.07112	2.33283	0.0249107	0.20992087	2.8039202	21	11 7.3	19.0
79115 1984 *JK*	15.7	*X*	319.08448	137.27220	168.97319	3.32571	0.2655653	0.23916159	2.5704457	21	5 1.6	18.5
79116 1984 ST_6	15.7	*X*	128.89047	172.96025	179.31026	11.71323	0.2291063	0.27710624	2.3300855	21	—	—
79117 Brydonejack	16.0	*X*	292.95321	124.64084	194.31104	3.38101	0.2546893	0.29345780	2.2427056	21	4 8.7	18.8
79118 1989 GY_5	13.9	*X*	350.32115	77.77322	230.94462	7.93444	0.0892051	0.19047954	2.9916021	21	7 22.1	17.7
79119 1989 SC_{10}	13.9	*X*	214.34455	315.04224	4.40864	17.33996	0.1026916	0.17062380	3.2194102	21	2 22.9	19.1
79120 1989 TS_4	15.1	*X*	66.20837	343.34292	54.24466	6.95828	0.2755454	0.22387963	2.6861257	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79121 1990 EG_1	15.7	X	319.61499	157.58555	298.63088	5.35779	0.2198920	0.27533083	2.3400914	21	—	—
79122 1990 RV_7	15.1	X	7.27835	195.16718	176.52837	2.94961	0.1847486	0.25816866	2.4426826	21	12 10.6	17.6
79123 1990 RT_8	15.8	X	30.73475	158.71051	153.71846	3.04233	0.2086277	0.25624141	2.4549152	21	10 31.1	18.5
79124 1990 RU_8	15.3	X	175.66639	142.40921	153.09506	2.65542	0.1895955	0.26784267	2.3835057	21	—	—
79125 1990 SZ_4	14.3	X	250.71584	262.54355	55.98193	2.25742	0.1495280	0.17955365	3.1117633	21	3 19.6	19.1
79126 1990 SO_6	15.4	X	155.97238	195.29662	95.31499	3.30547	0.2130643	0.26539290	2.3981510	21	—	—
79127 1990 SK_8	15.3	X	8.12782	268.40218	109.25389	4.24811	0.1892443	0.25802124	2.4436129	21	12 20.9	17.9
79128 1990 SB_{13}	15.8	X	140.22274	139.02284	192.77557	0.42221	0.2325402	0.26737745	2.3862697	21	—	—
79129 Robkoldewey	15.1	X	311.97997	126.98528	282.76110	1.79563	0.1855437	0.25420429	2.4680131	21	10 7.5	17.2
79130 Bandanomori	14.5	X	6.18286	278.46397	81.81990	9.27335	0.1656797	0.25610518	2.4557858	21	11 20.2	17.0
79131 1990 UN_4	15.2	X	208.44258	118.81457	204.46056	21.50105	0.2855200	0.27151930	2.3619403	21	1 30.8	19.9
79132 1990 VR_4	13.7	X	151.30854	269.16341	87.94083	13.69563	0.1478920	0.17044572	3.2216522	21	2 6.7	18.9
79133 1990 VG_5	15.8	X	144.35380	331.85582	118.52999	6.16515	0.2184271	0.23990523	2.5651311	21	5 21.5	20.0
79134 1990 VO_8	15.5	X	178.25759	263.20506	130.96639	6.49858	0.3005026	0.24046226	2.5611682	21	4 14.4	20.2
79135 1991 JV	15.9	X	271.33745	2.57547	85.78473	23.33866	0.0826421	0.37180046	1.9154145	21	11 10.6	17.9
79136 1991 ND_4	15.8	X	129.53999	77.70343	241.41044	1.45618	0.2320087	0.27635629	2.3342990	21	—	—
79137 1991 PD_{15}	15.6	X	282.08567	35.17081	290.96659	5.66284	0.3045202	0.28964814	2.2623279	21	3 29.2	19.1
79138 Mansfeld	15.9	X	38.86891	25.28965	321.96207	1.72684	0.2354786	0.26731456	2.3866440	21	—	—
79139 1991 SP	15.6	X	245.90825	268.02194	76.86992	6.36715	0.1973168	0.28713442	2.2755124	21	4 5.0	19.2
79140 1991 SX_2	15.1	X	54.77991	80.97672	191.17543	3.16254	0.0454841	0.19355118	2.9598668	21	9 6.2	19.0
79141 1991 TB	14.9	X	116.52341	9.80758	27.85059	7.87521	0.1900031	0.27915776	2.3186556	21	2 5.8	17.7
79142 1991 VR_2	14.9	X	235.66421	275.23685	45.23959	23.30436	0.2651658	0.28269871	2.2992534	21	3 5.3	19.4
79143 1992 BQ_2	14.4	X	143.22640	285.44718	236.08717	4.35170	0.0645443	0.25074157	2.4906832	21	8 7.7	17.9
79144 Cervantes	14.1	X	233.64645	104.84271	134.03464	29.05469	0.3324420	0.22981499	2.6396751	21	—	—
79145 1992 EL_{13}	14.6	X	55.06547	148.73557	332.04560	20.47485	0.0749513	0.16962626	3.2320197	21	2 26.4	18.8
79146 1992 JP_3	15.4	X	74.80934	199.04780	41.99051	7.98152	0.1729568	0.24421164	2.5348863	21	9 19.6	18.9
79147 1992 RG_3	15.4	X	324.04697	132.59840	169.14656	13.76683	0.2733839	0.23354751	2.6114751	21	5 5.6	18.5
79148 1992 SN_3	15.7	X	327.46882	313.18424	148.25995	4.75579	0.1706976	0.21162550	2.7888429	21	—	—
79149 Kajigamori	15.7	X	95.46899	141.33146	290.85393	1.61638	0.2341506	0.28598843	2.2815872	21	2 24.6	18.0
79150 1992 UR_7	16.8	X	70.84020	147.87300	123.77909	7.90835	0.2710347	0.30663707	2.1779753	21	11 12.3	20.1
79151 1992 YS_3	16.5	X	329.18778	199.57443	281.68705	3.89415	0.1729535	0.27426304	2.3461613	21	—	—
79152 Abukumagawa	15.5	X	282.34843	46.04286	194.62988	5.69443	0.2639048	0.27395940	2.3478945	21	—	—
79153 1993 FV_4	16.3	X	262.12660	53.90322	138.39349	2.70622	0.1493450	0.27012354	2.3700696	21	—	—
79154 1993 FF_5	16.3	X	340.37877	88.35718	34.70362	3.18475	0.1141554	0.27219705	2.3580179	21	—	—
79155 1993 FN_8	14.8	X	61.02954	23.23026	139.91648	6.49972	0.1020892	0.17839593	3.1252115	21	5 5.7	19.0
79156 1993 FA_{12}	14.8	X	147.41612	314.36120	141.88374	4.71196	0.0942769	0.18088729	3.0964496	21	5 24.8	19.6
79157 1993 FE_{16}	15.7	X	233.57960	125.37345	153.69229	6.56189	0.1173879	0.27394331	2.3479864	21	1 1.8	19.3
79158 1993 FB_{17}	14.8	X	318.80965	111.87261	176.87280	16.21333	0.1206085	0.17882142	3.1202521	21	5 8.5	19.1
79159 1993 FP_{17}	14.9	X	113.71815	13.70940	114.97883	6.39207	0.1178978	0.18053758	3.1004469	21	5 30.7	19.5
79160 1993 FO_{19}	14.1	X	2.54314	69.86599	166.90973	15.71379	0.1481248	0.17748033	3.1359507	21	5 10.5	18.0
79161 1993 FW_{19}	14.3	X	73.63010	314.32920	103.46090	5.97328	0.1251046	0.16970244	3.2310524	21	1 13.8	18.5
79162 1993 FU_{20}	15.8	X	282.28588	341.15714	152.33930	5.84428	0.1708578	0.26755769	2.3851979	21	12 20.2	18.1
79163 1993 FK_{24}	15.8	X	294.62051	126.35567	342.79158	2.97710	0.1531076	0.26663473	2.3906990	21	12 9.1	18.0
79164 1993 FE_{27}	16.0	X	203.74217	151.35116	36.86700	1.79309	0.1265852	0.26375444	2.4080723	21	11 18.8	19.4
79165 1993 FR_{27}	15.1	X	51.01914	104.32938	198.42317	10.18294	0.2794908	0.25705405	2.4497386	21	11 24.7	18.6
79166 1993 FU_{29}	14.6	X	332.80919	136.01895	208.44294	11.61336	0.1848659	0.18639553	3.0351422	21	8 1.9	18.2
79167 1993 FM_{32}	15.3	X	108.77669	347.61633	313.06756	5.55547	0.1636068	0.26375142	2.4080908	21	—	—
79168 1993 FP_{33}	15.0	X	127.87975	290.75925	139.84575	3.75375	0.1352056	0.24610507	2.5218679	21	3 31.1	18.4
79169 1993 FY_{33}	15.3	X	336.44565	358.55385	33.84150	7.12161	0.1532081	0.26176196	2.4202768	21	11 6.9	17.3
79170 1993 FT_{34}	14.3	X	109.67560	279.93303	183.64479	15.84375	0.1932336	0.17872089	3.1214221	21	5 5.7	19.1
79171 1993 FM_{37}	15.0	X	324.50307	151.83011	149.33536	2.26206	0.2030311	0.18010844	3.1053699	21	5 19.6	18.6
79172 1993 FX_{38}	16.9	X	261.19467	91.65972	140.69280	2.77630	0.1523295	0.27238256	2.3569472	21	—	—
79173 1993 FE_{41}	14.8	X	340.39757	168.09106	53.58238	3.16924	0.0542551	0.17495698	3.1660313	21	3 21.4	19.0
79174 1993 FC_{46}	15.8	X	100.29185	32.77754	240.73975	0.37569	0.1730183	0.26023620	2.4297275	21	11 24.8	19.4
79175 1993 FU_{47}	16.2	X	321.48035	61.32540	20.81135	1.81634	0.0950677	0.26625155	2.3929922	21	12 22.4	18.4
79176 1993 FA_{50}	16.4	X	324.44349	288.21266	193.95568	4.96948	0.1418216	0.27084600	2.3658531	21	—	—
79177 1993 FG_{50}	16.0	X	201.80067	298.29013	322.61744	1.94770	0.1400169	0.26928783	2.3749706	21	—	—
79178 1993 FN_{54}	16.2	X	132.28615	228.05739	65.14704	3.61527	0.1811428	0.26497673	2.4006613	21	—	—
79179 1993 FX_{56}	16.4	X	232.97409	102.89304	142.42085	6.17513	0.1200041	0.27092942	2.3653674	21	—	—
79180 1993 FR_{62}	15.1	X	64.74869	165.11287	33.29670	5.72074	0.0986363	0.18073989	3.0981328	21	6 23.0	19.3
79181 1993 FT_{75}	14.5	X	224.58004	348.95558	7.86034	16.98674	0.0970468	0.17708056	3.1406686	21	4 8.9	19.3
79182 1993 FS_{82}	15.0	X	239.93166	279.86646	44.01824	5.23979	0.0795476	0.17516312	3.1635468	21	3 22.3	19.7
79183 1993 KY	16.8	X	154.51010	134.33429	146.85816	2.92719	0.1966612	0.26352671	2.4094595	21	—	—
79184 1993 KO_3	15.4	X	323.98013	286.91789	100.77234	5.05904	0.2455684	0.25583664	2.4575039	21	9 29.8	17.0
79185 1993 OZ_3	15.9	X	137.26704	157.84528	91.45432	1.62952	0.1808338	0.25695105	2.4503932	21	11 28.1	19.9
79186 1993 QN	14.1	X	191.69678	48.78000	313.75195	31.21388	0.2915113	0.23115604	2.6294559	21	2 28.8	19.3
79187 1993 QL_8	15.8	X	25.50117	241.41017	150.96999	13.09158	0.2973081	0.21734651	2.7396869	21	—	—
79188 1993 QF_9	15.7	X	102.56370	137.24310	147.62840	4.13502	0.1953869	0.25374283	2.4710044	21	12 11.6	19.8
79189 1993 RB_8	15.5	X	234.40495	174.97694	179.92669	7.32316	0.1962374	0.23545684	2.5973382	21	4 9.2	19.7
79190 1993 TT_9	14.0	X	78.28328	262.79635	244.89307	6.50323	0.0930722	0.12502466	3.9610069	21	5 9.7	19.4
79191 1993 TU_{14}	15.8	X	167.57123	187.76083	144.25591	1.38738	0.1041367	0.22602301	2.6691170	21	1 8.5	19.6
79192 1993 TG_{16}	15.1	X	61.00732	104.40762	24.18237	15.19745	0.0818744	0.22940206	2.6428419	21	3 15.2	18.4
79193 1993 TW_{17}	15.4	X	113.50021	229.34012	191.96496	13.09687	0.2482912	0.22720478	2.6598537	21	3 17.0	19.2
79194 1993 TZ_{18}	15.2	X	81.54708	218.41414	181.87185	7.69509	0.1408463	0.22286329	2.6942860	21	—	—
79195 1993 TZ_{24}	15.1	X	26.08675	14.14758	40.03068	9.89447	0.1608472	0.21830681	2.7316467	21	—	—
79196 1993 TD_{33}	15.4	X	105.10492	300.20159	65.76994	6.90102	0.0545975	0.22197479	2.7014708	21	—	—
79197 1993 TE_{33}	15.2	X	85.56240	63.01557	153.89967	5.60520	0.1404534	0.24080105	2.5587654	21	8 22.7	18.7
79198 1993 TL_{33}	14.8	X	58.06271	45.41499	180.86053	10.75209	0.0730513	0.23912190	2.5707301	21	7 15.8	18.2
79199 1993 TN_{37}	15.2	X	131.56782	266.47680	126.71129	4.48208	0.0863736	0.22684969	2.6626286	21	2 10.8	18.8
79200 1993 UH_4	15.7	X	313.64663	174.90115	144.02989	4.71917	0.2204652	0.23956241	2.5675777	21	5 19.3	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79201 1993 UY_4	15.7	X	330.16304	223.80515	101.41579	4.40077	0.1987080	0.24145512	2.5541424	21	7 2.1	18.0
79202 1993 UV_5	15.3	X	345.19942	155.93384	154.73873	5.32657	0.2150699	0.24175178	2.5520524	21	7 12.1	17.4
79203 1993 UC_6	15.8	X	345.80276	209.90321	99.30734	5.63490	0.2460364	0.24200113	2.5502991	21	7 9.4	17.4
79204 1993 UH_7	15.4	X	351.06813	349.33401	112.85006	5.92567	0.0712367	0.21873375	2.7280910	21	—	—
79205 1993 UN_8	14.8	X	97.32285	185.89863	186.02385	14.76563	0.1306193	0.22132377	2.7067658	21	—	—
79206 1993 VX_1	14.9	X	153.70918	17.95926	349.29495	2.33113	0.2549543	0.22652552	2.6651682	21	2 19.8	19.2
79207 1994 AW_9	16.7	X	323.50782	214.17741	19.31203	2.20863	0.1292466	0.29299306	2.2450766	21	2 8.8	19.2
79208 1994 AF_{12}	16.4	X	27.00027	123.36820	103.83321	2.86944	0.1022550	0.29962776	2.2118110	21	5 28.2	18.1
79209 1994 AT_{12}	15.6	X	121.38248	227.93524	95.99867	5.49355	0.0674276	0.21169871	2.7881999	21	—	—
79210 1994 CX_{17}	15.9	X	357.05231	105.00495	108.87736	5.25739	0.0836368	0.29259294	2.2471229	21	3 14.5	18.2
79211 1994 CB_{18}	14.6	X	72.91628	77.22496	137.32018	11.38828	0.0399095	0.19209729	2.9747825	21	7 16.4	18.7
79212 1994 ET	16.0	X	201.44674	59.49185	328.01079	7.56416	0.1356641	0.29809555	2.2193837	21	4 11.9	19.4
79213 1994 EX	14.9	X	71.07956	288.39208	38.80763	2.51723	0.0679309	0.20325501	2.8648939	21	12 9.8	19.0
79214 1994 GS_6	16.9	X	42.56494	273.47492	205.83448	4.78840	0.0343223	0.28613139	2.2808272	21	1 10.8	19.5
79215 1994 HU	15.5	X	123.20680	270.29303	194.33534	1.38162	0.0911958	0.18470153	3.0536720	21	5 6.9	19.8
79216 1994 JH_3	14.5	X	43.08968	254.09151	225.08361	13.03386	0.1906855	0.17728546	3.1382483	21	2 9.5	18.2
79217 1994 JR_4	15.7	X	70.56262	151.35006	204.41069	2.48611	0.1810782	0.27219554	2.3580267	21	—	—
79218 1994 JU_7	14.7	X	318.50455	209.64027	75.28167	13.11992	0.0990841	0.18196702	3.0841885	21	5 6.3	18.8
79219 1994 LN	15.8	X	357.58970	246.30301	162.14972	25.68515	0.1607942	0.37204682	1.9145688	21	—	—
79220 1994 PO_1	13.7	X	281.09993	229.87101	62.74468	27.12135	0.2106228	0.17323479	3.1869798	21	3 28.7	19.0
79221 1994 PN_7	15.7	X	235.04104	259.25516	156.86512	6.70846	0.0924027	0.25142172	2.4861893	21	7 4.7	19.3
79222 1994 PQ_8	16.2	X	136.81188	9.08447	306.29502	0.87990	0.1899333	0.26951390	2.3736423	21	—	—
79223 1994 PM_{12}	15.8	X	141.33405	98.68931	161.83792	7.99780	0.0705795	0.26449190	2.4035941	21	12 17.4	19.3
79224 1994 PS_{12}	16.2	X	223.60281	87.22208	224.68736	1.83277	0.2279917	0.27815691	2.3242142	21	1 31.8	20.1
79225 1994 PF_{16}	15.9	X	218.56735	333.74999	326.93211	6.38548	0.1068623	0.27608024	2.3358548	21	1 14.6	19.4
79226 1994 PM_{16}	16.3	X	92.16995	74.23704	258.36313	1.88139	0.1635208	0.26593461	2.3948931	21	—	—
79227 1994 PK_{17}	16.1	X	243.59379	204.23301	161.44572	4.41094	0.1874207	0.24712738	2.5149082	21	5 1.3	20.0
79228 1994 PP_{17}	15.9	X	345.10752	119.22431	265.85599	0.92632	0.2126373	0.25853164	2.4403957	21	11 19.3	17.7
79229 1994 PE_{20}	16.1	X	335.12884	71.80153	278.62379	1.24101	0.2120824	0.25505877	2.4624980	21	8 24.6	17.6
79230 1994 PP_{21}	15.6	X	169.94763	314.98028	9.36191	1.30958	0.2604908	0.27339375	2.3511319	21	1 7.4	19.2
79231 1994 PO_{22}	14.8	X	126.75549	340.02313	345.80617	6.66913	0.1708859	0.26884747	2.3775633	21	—	—
79232 1994 PH_{25}	15.8	X	78.24826	205.24664	141.11529	6.48676	0.1604623	0.26592462	2.3949531	21	—	—
79233 1994 PK_{25}	15.8	X	151.61863	171.49357	136.83405	3.23494	0.1702845	0.27056396	2.3674969	21	—	—
79234 1994 PC_{26}	15.9	X	203.47555	189.18550	134.08105	5.95601	0.1628085	0.27694213	2.3310058	21	1 28.4	19.4
79235 1994 PQ_{28}	16.0	X	273.04830	283.19606	339.36158	5.81092	0.2324939	0.27976078	2.3153225	21	1 13.0	19.8
79236 1994 PB_{31}	15.7	X	210.24738	67.70355	197.17217	5.76132	0.1045989	0.27199566	2.3591818	21	—	—
79237 1994 PC_{31}	16.7	X	234.56430	127.15804	183.83896	3.70685	0.2413334	0.27927111	2.3180282	21	2 7.5	20.6
79238 1994 PM_{36}	15.6	X	74.87682	206.76502	152.45579	1.58520	0.2024138	0.26643986	2.3918646	21	—	—
79239 1994 PY_{37}	16.4	X	187.72512	333.79727	301.63015	1.63354	0.1865503	0.27188986	2.3597937	21	—	—
79240 Rosanna	15.8	X	240.97143	93.80488	156.73527	2.56521	0.1778609	0.27497745	2.3420958	21	—	—
79241 Fulviobressan	16.2	X	126.48817	350.38844	329.31420	4.00483	0.1320014	0.26876335	2.3780593	21	—	—
79242 1994 RE	14.3	X	287.41446	98.83864	162.42797	16.90952	0.0967677	0.17025146	3.2241023	21	2 23.6	19.1
79243 1994 RA_1	16.0	X	153.03169	152.51723	169.66414	2.30000	0.2181667	0.27154991	2.3617628	21	—	—
79244 1994 RT_1	14.9	X	182.50426	203.28760	167.60408	20.35397	0.2896678	0.24028665	2.5624159	21	3 18.8	19.4
79245 1994 RL_{23}	16.0	X	92.20008	124.56617	136.34617	7.12009	0.1521793	0.26054341	2.4278172	21	11 2.3	19.6
79246 1994 SC_6	16.2	X	178.64823	246.28121	168.28786	3.14006	0.2132500	0.24257270	2.5462914	21	5 5.2	20.6
79247 1994 SL_7	14.9	X	100.77129	313.36667	13.75317	6.86157	0.1540914	0.26506845	2.4001075	21	—	—
79248 1994 TJ	15.0	X	325.35826	1.80193	345.51461	5.59955	0.0932503	0.25214805	2.4814126	21	8 10.4	17.7
79249 1994 TL	15.4	X	94.85680	332.13135	356.40054	2.11585	0.2444379	0.26474971	2.4020335	21	—	—
79250 1994 TD_5	16.4	X	55.33426	150.65616	176.87297	3.99108	0.0126123	0.25928263	2.4356811	21	11 24.3	19.4
79251 1994 TW_8	16.1	X	231.10259	83.78963	26.56833	9.28287	0.0586247	0.25272324	2.4776461	21	9 20.3	19.4
79252 1994 TR_{11}	15.4	X	17.01733	332.95576	37.51152	3.29417	0.1963847	0.25883725	2.4384744	21	12 26.5	18.1
79253 1994 UQ_7	16.0	X	28.89322	213.53259	5.42616	5.77454	0.0401803	0.24387057	2.5372492	21	5 17.0	19.1
79254 Tsuda	15.3	X	326.53927	270.02757	92.36970	2.62847	0.1063209	0.25105824	2.4885883	21	9 3.2	17.8
79255 1994 YY_3	15.5	X	182.73926	70.96016	300.98555	1.01336	0.0501203	0.23253705	2.6190348	21	3 10.1	19.1
79256 1995 BO_{10}	15.0	X	145.90372	140.09957	322.40236	13.28097	0.0374721	0.23595252	2.5936994	21	5 18.1	18.9
79257 1995 CS_6	15.7	X	40.06639	195.05884	296.73610	3.80631	0.0814807	0.22749990	2.6575528	21	2 7.9	18.7
79258 1995 DP_1	14.7	X	7.74160	167.79150	1.78182	12.39330	0.2138108	0.22566869	2.6719101	21	1 31.5	17.5
79259 1995 DR_9	15.4	X	126.39026	71.97312	288.75979	4.37853	0.0840601	0.22162933	2.7042773	21	—	—
79260 1995 EN_3	15.2	X	316.95716	260.95086	320.65394	10.25403	0.1433613	0.22625867	2.6672633	21	1 27.0	18.6
79261 1995 FE_{15}	15.3	X	113.18039	178.02898	170.06660	11.15575	0.1594077	0.21452729	2.7636371	21	—	—
79262 1995 FU_{19}	15.7	X	168.26224	134.00267	165.25605	9.69914	0.0556309	0.21780410	2.7358483	21	—	—
79263 1995 HK_5	15.2	X	274.57938	334.55777	161.58414	10.28747	0.1342182	0.20936615	2.8088707	21	12 2.3	18.9
79264 1995 MC_4	14.3	X	55.49528	6.13068	179.13469	8.85634	0.0125122	0.18320382	3.0702921	21	5 14.8	18.7
79265 1995 OV_2	14.6	X	163.54783	279.48764	171.39941	9.92983	0.0789284	0.18333593	3.0688170	21	6 3.6	19.4
79266 1995 OV_3	16.4	X	72.23603	277.09475	151.28079	2.49223	0.1945320	0.28234369	2.3011804	21	—	—
79267 1995 OE_6	16.7	X	359.89116	346.48891	129.24258	3.63982	0.1261636	0.28085306	2.3093155	21	—	—
79268 1995 OW_{13}	15.1	X	40.59468	100.02889	161.49733	10.44321	0.0721301	0.18935579	3.0034264	21	8 6.1	19.0
79269 1995 QG_1	15.0	X	215.11374	145.23593	192.50071	1.43577	0.0901675	0.17553813	3.1590397	21	3 10.5	19.8
79270 1995 QK_8	14.5	X	257.17393	85.38592	289.05421	8.76139	0.1029101	0.18463033	3.0544570	21	6 6.1	19.0
79271 Bellagio	16.1	X	306.80746	332.53684	335.41982	5.06819	0.1943324	0.29581510	2.2307753	21	4 17.6	18.6
79272 1995 SN_6	16.3	X	331.45635	293.92593	353.33998	5.76580	0.2138133	0.29798877	2.2199138	21	4 23.9	18.4
79273 1995 SQ_{11}	17.0	X	210.46699	11.54257	345.31951	4.33740	0.1916846	0.29015480	2.2596935	21	3 15.9	20.7
79274 1995 SG_{16}	15.1	X	157.36876	232.40887	176.76152	9.57045	0.0916330	0.17500036	3.1655080	21	4 8.1	19.9
79275 1995 SB_{21}	14.2	X	208.68393	151.72029	252.81427	8.78449	0.0856076	0.18168216	3.0874115	21	5 23.3	19.0
79276 1995 SM_{22}	16.7	X	270.04764	108.53007	52.32376	3.16593	0.1367418	0.27394779	2.3479608	21	—	—
79277 1995 SB_{25}	16.0	X	127.45507	347.18091	19.00000	8.09157	0.1419514	0.28112667	2.3078169	21	—	—
79278 1995 SA_{28}	14.9	X	74.71432	47.62651	215.61891	11.56709	0.1266892	0.19311210	2.9643517	21	9 30.7	19.2
79279 1995 SQ_{28}	14.1	X	173.24795	48.68670	343.50298	15.31817	0.0970075	0.17620179	3.1511023	21	3 28.9	19.1
79280 1995 SE_{32}	14.7	X	7.48993	147.20597	175.03015	2.66578	0.2272845	0.19087174	2.9875026	21	9 20.9	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79281 1995 SN_{32}	16.5	X	82.88328	334.14801	170.26472	2.02300	0.1017082	0.29284433	2.2458367	21	4 29.8	18.7
79282 1995 SU_{32}	14.7	X	251.20944	62.59982	164.51273	14.00906	0.0166475	0.16737128	3.2609846	21	—	—
79283 1995 SN_{42}	16.3	X	346.38546	38.97612	40.49010	3.01996	0.1950755	0.27177734	2.3604450	21	—	—
79284 1995 SJ_{43}	16.2	X	27.63184	211.14284	64.53773	2.75868	0.0451946	0.29951128	2.2123844	21	8 11.6	18.5
79285 1995 SP_{53}	16.3	X	186.75883	301.91251	28.53576	3.61074	0.2315223	0.28367619	2.2939686	21	1 26.2	20.0
79286 Hexiantu	15.1	X	88.85453	18.80576	35.78441	7.99806	0.1728785	0.27864720	2.3214870	21	1 11.2	17.3
79287 1995 SQ_{58}	15.0	X	84.34467	152.18755	344.50201	4.50586	0.0829560	0.17655047	3.1469521	21	4 27.2	19.3
79288 1995 SY_{71}	15.1	X	255.88634	50.97475	283.57773	1.75810	0.0644719	0.17877832	3.1207536	21	4 20.1	19.6
79289 1995 TY_{6}	16.3	X	23.91066	346.67302	10.44729	4.42543	0.2400554	0.26877759	2.3779753	21	12 28.1	19.1
79290 1995 TE_{11}	16.0	X	167.68983	323.14406	22.87030	2.93439	0.2006820	0.28348409	2.2950048	21	1 26.0	19.3
79291 1995 UG_{6}	14.8	X	164.08207	16.07055	7.58241	2.70854	0.1670450	0.24636987	2.5200606	21	3 11.9	18.7
79292 1995 UH_{11}	16.3	X	2.69446	248.25100	353.49087	3.04157	0.0770021	0.29367757	2.2415866	21	5 3.0	18.5
79293 1995 UM_{25}	15.3	X	266.72902	202.28231	120.31424	2.21895	0.1447715	0.17810506	3.1286132	21	4 10.2	19.9
79294 1995 UR_{42}	15.2	X	280.14343	80.32382	222.31504	2.44446	0.1052946	0.17587150	3.1550463	21	4 4.3	19.8
79295 1995 UT_{42}	16.3	X	302.17076	103.07682	332.74308	0.75174	0.1546758	0.26609304	2.3939424	21	11 3.4	18.2
79296 1995 VE_{6}	15.5	X	25.29427	259.69253	56.64886	5.93478	0.1063263	0.26268450	2.4146068	21	10 13.4	18.1
79297 1995 VK_{8}	16.8	X	294.42787	214.07386	230.60129	1.78077	0.1585249	0.26439086	2.4042065	21	10 31.8	19.2
79298 1995 VO_{13}	16.3	X	261.32297	62.91941	134.04822	3.34802	0.1123376	0.27485797	2.3427745	21	—	—
79299 1995 WS_{2}	15.1	X	219.84775	328.00344	45.24042	6.96039	0.2026303	0.28943629	2.2634317	21	4 15.7	18.8
79300 1995 WP_{10}	16.3	X	328.29796	36.48282	241.42646	3.01418	0.1305042	0.29218472	2.2492154	21	4 20.6	18.5
79301 1995 WD_{22}	14.9	X	320.53667	171.89401	114.56603	5.08147	0.1004497	0.17514993	3.1637057	21	5 9.8	19.0
79302 1995 WG_{22}	16.0	X	220.09310	67.33542	240.89426	3.23719	0.2083204	0.28585280	2.2823088	21	1 23.3	19.8
79303 1995 WV_{33}	15.9	X	120.40021	160.44465	189.83786	5.73625	0.1610995	0.27771992	2.3266516	21	—	—
79304 1995 WM_{35}	15.5	X	254.92520	329.85704	42.29588	6.49125	0.1802027	0.29399851	2.2399550	21	5 17.3	18.5
79305 1995 XK	15.4	X	306.15314	250.56293	76.17191	7.55722	0.2101333	0.29391911	2.2403584	21	5 15.9	17.9
79306 1995 YZ_{7}	15.5	X	79.01389	25.29774	68.85190	8.10631	0.0608543	0.28132840	2.3067135	21	2 7.2	18.1
79307 1995 YH_{11}	15.7	X	29.91557	15.42836	159.83072	3.04645	0.1239581	0.24043964	2.5613288	21	3 22.7	18.2
79308 1995 YB_{12}	16.3	X	16.07735	218.31295	156.91116	3.60586	0.1372546	0.26333677	2.4106179	21	12 23.2	19.0
79309 1995 YH_{21}	16.4	X	345.37468	353.58418	72.88052	7.16502	0.1536404	0.26826810	2.3809852	21	—	—
79310 1996 AK_{4}	16.6	X	198.41462	148.48085	4.46149	2.61382	0.1369209	0.25640263	2.4538861	21	9 27.3	20.2
79311 1996 AO_{12}	15.5	X	78.76155	116.44119	220.00677	5.46616	0.1298319	0.26341878	2.4101176	21	—	—
79312 1996 BQ_{5}	16.4	X	178.52157	184.44204	54.88511	3.24969	0.1507475	0.26219924	2.4175851	21	12 24.5	20.0
79313 1996 CK	16.1	X	269.13576	126.99531	337.65885	18.02836	0.1036630	0.37422834	1.9071211	21	11 8.5	18.2
79314 1996 DP_{1}	15.7	X	142.24858	296.27537	273.25056	6.61975	0.0558432	0.25421309	2.4679562	21	10 8.1	19.3
79315 1996 EK_{7}	17.0	X	83.69621	332.12279	166.72962	2.96338	0.1308668	0.24006081	2.5640227	21	5 3.5	20.1
79316 Huangshan	14.9	X	138.94494	137.65011	10.41906	19.72198	0.0634556	0.36398964	1.9427192	21	7 28.1	17.6
79317 1996 HL_{21}	15.9	X	292.40278	243.23388	55.53213	4.78480	0.2908542	0.23215595	2.6219003	21	3 17.2	19.8
79318 1996 HY_{22}	15.9	X	81.51469	357.17785	194.92807	2.50688	0.1171841	0.24098484	2.5574642	21	7 10.4	19.2
79319 1996 HS_{24}	15.6	X	65.13526	150.09893	97.95557	1.77302	0.1609713	0.24351272	2.5397343	21	9 11.9	18.9
79320 1996 HS_{25}	15.4	X	45.27135	303.71364	211.10052	10.95535	0.1603205	0.23388899	2.6089326	21	3 22.6	18.1
79321 1996 JV_{4}	15.4	X	204.97663	325.75446	81.45986	14.06056	0.1462922	0.23770310	2.5809494	21	5 20.9	19.5
79322 1996 JP_{12}	15.7	X	46.88005	31.12998	97.43820	10.55095	0.1879368	0.23138216	2.6277425	21	2 25.1	18.3
79323 1996 PM_{7}	15.0	X	117.34546	54.22814	299.67274	2.47294	0.0858884	0.21381122	2.7698041	21	—	—
79324 1996 PH_{8}	16.1	X	250.29159	308.88469	297.18638	0.84339	0.1805094	0.21927264	2.7236194	21	—	—
79325 1996 QJ	15.3	X	207.69801	44.13802	316.68768	1.36394	0.2143808	0.18416605	3.0595883	21	3 27.3	20.4
79326 1996 QQ_{3}	14.8	X	84.39254	42.29280	312.29947	7.96527	0.1617607	0.20902576	2.8119192	21	—	—
79327 1996 RT_{11}	15.2	X	37.04726	293.36531	34.64117	2.26814	0.0790663	0.20122685	2.8841118	21	10 30.4	19.0
79328 1996 RE_{19}	15.3	X	145.26590	236.63360	14.68678	1.78540	0.0469733	0.20387099	2.8591203	21	11 29.1	19.5
79329 1996 RC_{23}	15.9	X	180.29119	72.74757	171.31824	3.68592	0.0691916	0.20706496	2.8296430	21	12 28.1	20.1
79330 1996 RR_{24}	15.4	X	164.70418	126.26301	175.36017	9.54753	0.1576651	0.21266497	2.7797479	21	—	—
79331 1996 TY	15.1	X	337.27341	122.47505	260.26337	1.06324	0.0475556	0.19775220	2.9177977	21	10 12.4	19.0
79332 1996 TY_{2}	15.1	X	89.28469	202.61167	179.51219	1.39380	0.1598038	0.17054083	3.2204543	21	—	—
79333 Yusaku	14.9	X	157.15116	320.93048	11.97392	13.14181	0.1722646	0.21509842	2.7587430	21	1 10.0	19.4
79334 1996 TZ_{9}	14.7	X	312.77547	169.95252	200.69575	8.48882	0.1018137	0.19291759	2.9663439	21	8 13.5	18.7
79335 1996 TJ_{19}	15.7	X	313.21472	342.42627	32.74240	11.07738	0.0659275	0.19186611	2.9771716	21	9 1.8	19.7
79336 1996 TV_{20}	14.7	X	90.34717	274.67626	211.90776	17.22015	0.1164296	0.17902647	3.1178691	21	4 29.0	18.9
79337 1996 TZ_{20}	14.4	X	327.66562	83.33231	322.93666	1.14918	0.0797662	0.19742946	2.9209766	21	10 28.1	18.0
79338 1996 TG_{22}	14.2	X	357.35252	322.56243	14.94654	14.02494	0.2052138	0.19602385	2.9349234	21	9 22.9	17.1
79339 1996 TG_{41}	16.4	X	349.26495	340.68945	44.44218	2.58357	0.1020677	0.31913907	2.1207170	21	12 2.3	18.0
79340 1996 TO_{41}	15.1	X	118.60155	159.43117	162.16439	9.62539	0.1370771	0.20862951	2.8154786	21	—	—
79341 1996 UT_{1}	14.6	X	87.68480	221.97737	211.54488	13.41981	0.0469921	0.17534933	3.1613067	21	2 5.1	19.2
79342 1996 VB_{15}	15.1	X	144.29328	17.27610	51.08291	3.44157	0.0925453	0.17817384	3.1278080	21	4 16.7	19.7
79343 1996 VK_{17}	15.5	X	98.59832	126.86114	66.16579	2.40493	0.1166221	0.18535781	3.0464598	21	8 2.2	20.0
79344 1996 VA_{27}	15.5	X	313.55187	51.13828	152.55448	1.08152	0.1144492	0.17111794	3.2132093	21	1 15.1	20.1
79345 1996 VN_{32}	14.6	X	272.59292	76.44664	348.69049	8.94578	0.0500338	0.19321696	2.9632791	21	9 7.6	18.6
79346 1996 VY_{33}	15.1	X	58.86100	237.19087	280.11494	0.48227	0.1748621	0.17559137	3.1584010	21	5 2.5	19.0
79347 Medlov	14.7	X	90.36513	11.81995	82.73130	20.93281	0.1370048	0.17213664	3.2005196	21	4 4.5	19.5
79348 1996 XK_{9}	14.4	X	275.33838	56.63016	265.21315	11.55913	0.1879568	0.18355324	3.0663944	21	4 7.0	19.2
79349 1996 XQ_{21}	14.4	X	100.68144	74.06002	40.13285	16.32756	0.0946020	0.17692738	3.1424812	21	4 24.3	18.9
79350 1996 YW	15.3	X	290.05701	2.47570	72.12723	4.16462	0.0903044	0.31084600	2.1582704	21	10 28.8	17.2
79351 1997 AX_{5}	15.4	X	143.17426	121.82679	299.62320	5.27895	0.1778708	0.29287083	2.2457012	21	3 31.9	18.6
79352 1997 AO_{6}	16.4	X	149.73243	38.32093	90.00245	3.95918	0.1277486	0.30046460	2.2077023	21	7 7.4	19.3
79353 Andrewalday	15.9	X	287.40568	267.25333	324.66063	6.42995	0.0654293	0.28452269	2.2894163	21	1 2.2	18.9
79354 Brundibár	16.4	X	47.78505	105.08859	309.11901	5.05672	0.0993296	0.28039614	2.3118236	21	—	—
79355 1997 BN_{4}	15.9	X	245.27823	351.60188	318.86772	2.97272	0.1524951	0.29055102	2.2576387	21	2 18.1	19.2
79356 1997 BK_{5}	16.2	X	292.71418	343.13767	221.32890	1.23439	0.1850777	0.28056344	2.3109045	21	—	—
79357 1997 CP_{4}	16.5	X	49.39111	140.99690	324.45291	7.67979	0.1048448	0.28461915	2.2888990	21	1 3.5	18.7
79358 1997 CM_{6}	16.1	X	23.41481	63.29564	139.13922	4.09732	0.1593599	0.28973889	2.2618555	21	4 12.9	17.7
79359 1997 CA_{14}	14.7	X	275.33070	286.42008	32.76288	1.22011	0.1273825	0.18135095	3.0911696	21	4 16.3	19.0
79360 Sila–Nunam	5.2	X	302.98865	258.01136	304.45086	2.25614	0.0064911	0.00342541	43.5840356	21	2 12.8	21.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79361 1997 DA	15.9	X	75.67704	29.28103	130.43661	4.46164	0.1032515	0.29414280	2.2392224	21	5 12.6	18.2
79362 1997 EO_2	15.0	X	98.72897	66.70280	34.24121	5.07395	0.0909608	0.28780905	2.2719551	21	3 21.4	17.4
79363 1997 EC_4	16.3	X	266.30918	237.73948	356.01097	6.23238	0.0769081	0.27864261	2.3215125	21	—	—
79364 1997 EU_4	16.8	X	13.24912	311.30068	156.27155	2.36656	0.1790774	0.27938635	2.3173907	21	—	—
79365 1997 EW_6	15.7	X	188.42329	104.23203	216.86175	7.09187	0.1886921	0.28182167	2.3040211	21	1 11.3	19.4
79366 1997 EC_{10}	16.6	X	250.23113	286.15725	305.24968	2.06783	0.1189854	0.27776542	2.3263975	21	—	—
79367 1997 EJ_{13}	17.3	X	317.01703	315.23761	216.49700	1.61619	0.1569736	0.27980005	2.3151059	21	—	—
79368 1997 EJ_{16}	16.5	X	35.22511	68.34497	355.18228	4.12181	0.2268255	0.27747079	2.3280441	21	—	—
79369 1997 EN_{24}	15.7	X	136.02417	80.30406	20.83171	7.28457	0.0799463	0.29311548	2.2444514	21	5 6.9	18.5
79370 1997 EJ_{33}	15.9	X	123.60004	123.62996	28.94131	3.36600	0.0963593	0.29794808	2.2201159	21	7 8.2	18.7
79371 1997 ES_{39}	15.7	X	323.40304	130.18057	318.94727	5.13199	0.2182740	0.27489202	2.3425810	21	—	—
79372 1997 EU_{41}	16.1	X	274.56346	331.63657	276.42258	2.10859	0.1579597	0.28198254	2.3031448	21	—	—
79373 1997 EE_{42}	16.7	X	252.05023	323.92985	254.48731	1.54771	0.1799131	0.27638525	2.3341359	21	—	—
79374 1997 EB_{59}	15.6	X	228.72650	286.01225	345.67195	5.46223	0.1584780	0.27632766	2.3344602	21	—	—
79375 Valetti	15.8	X	306.20174	38.38094	176.16529	0.97952	0.1961278	0.28077293	2.3097549	21	—	—
79376 1997 FF	15.2	X	11.04919	126.25073	51.07003	24.77387	0.2200926	0.28335570	2.2956979	21	2 4.4	17.9
79377 1997 FV	15.6	X	343.12741	48.35854	154.60268	11.13565	0.0575702	0.28323361	2.2963576	21	2 6.3	18.1
79378 1997 FF_1	15.7	X	236.07480	201.13765	36.31551	3.80680	0.1263995	0.27470892	2.3436219	21	—	—
79379 1997 FR_3	16.1	X	306.13155	40.90855	195.95450	7.15285	0.0691098	0.28258850	2.2998511	21	1 29.4	19.1
79380 1997 GN	15.2	X	197.22949	80.83296	196.74808	21.31671	0.2862671	0.27158940	2.3615338	21	—	—
79381 1997 GV_2	16.6	X	270.65162	340.51471	183.82050	6.40986	0.0521777	0.27210452	2.3585525	21	—	—
79382 1997 GC_4	16.2	X	337.92283	243.50483	19.81149	5.48203	0.1885388	0.28827342	2.2695146	21	4 6.9	17.9
79383 1997 GU_5	16.2	X	282.92596	177.59473	35.07077	2.47337	0.1517084	0.27597849	2.3364289	21	—	—
79384 1997 GJ_6	16.4	X	258.66740	223.25357	64.40676	2.71513	0.1831458	0.27946714	2.3169441	21	2 3.1	20.1
79385 1997 GA_7	15.9	X	340.51900	85.66101	52.66397	2.79920	0.0237105	0.27424764	2.3462491	21	—	—
79386 1997 GP_{10}	16.0	X	216.76526	115.20357	184.69093	6.06791	0.1415448	0.27835355	2.3231195	21	1 10.2	19.6
79387 1997 GV_{11}	16.0	X	359.73155	117.19551	6.87186	7.69527	0.0621089	0.27719876	2.3295669	21	—	—
79388 1997 GC_{13}	16.6	X	309.22195	231.48305	16.86890	7.81567	0.0846859	0.28391087	2.2927043	21	2 21.0	19.4
79389 1997 GW_{13}	16.1	X	1.28325	101.04865	2.46216	6.62851	0.0952739	0.27551123	2.3390698	21	—	—
79390 1997 GK_{14}	14.6	X	130.62291	299.65783	6.06250	13.41797	0.2882450	0.26709936	2.3879258	21	—	—
79391 1997 GZ_{14}	16.1	X	276.70812	205.56624	343.79648	2.47770	0.1011548	0.27454820	2.3445364	21	—	—
79392 1997 GC_{15}	16.0	X	218.79480	305.14380	355.18027	4.02376	0.1221982	0.27864446	2.3215022	21	1 14.1	19.5
79393 1997 GH_{18}	16.3	X	354.24882	11.36808	173.98028	4.92938	0.0707242	0.28284936	2.2984369	21	1 27.3	18.8
79394 1997 GM_{18}	15.9	X	272.16240	214.38801	28.37093	6.98421	0.0852607	0.27903630	2.3193284	21	—	—
79395 1997 GP_{21}	16.0	X	13.73908	327.83143	218.90016	9.86973	0.0931789	0.28374971	2.2935723	21	2 24.3	18.6
79396 1997 GE_{23}	16.3	X	278.66489	131.40686	73.38860	3.68581	0.1788512	0.27489070	2.3425886	21	—	—
79397 1997 GG_{24}	15.9	X	196.41597	264.87083	43.58596	12.44468	0.2792707	0.27325810	2.3519099	21	1 11.5	20.2
79398 1997 GG_{27}	15.8	X	85.14287	1.88999	13.36660	6.60315	0.1332651	0.27499936	2.3419715	21	—	—
79399 1997 GC_{30}	16.3	X	260.31726	200.21282	77.97981	8.31032	0.2238909	0.27966778	2.3158358	21	1 22.1	20.1
79400 1997 HQ_2	15.3	X	231.86455	181.38299	139.11012	10.77562	0.2721952	0.27749705	2.3278972	21	2 17.9	19.3
79401 1997 HT_2	15.7	X	240.63050	334.85290	233.98995	2.22860	0.1320103	0.27169500	2.3609219	21	—	—
79402 1997 HV_2	16.2	X	292.54467	263.40286	8.67027	3.58048	0.1182282	0.28441202	2.2900102	21	2 24.5	19.3
79403 1997 HX_9	15.5	X	150.96584	281.53598	49.82189	8.68834	0.1372532	0.27244702	2.3565754	21	—	—
79404 1997 HN_{10}	15.4	X	357.91893	25.97936	42.41411	10.00542	0.1728594	0.26899478	2.3766952	21	—	—
79405 1997 HD_{11}	16.4	X	291.59949	358.21983	244.04198	4.53543	0.1966810	0.27901676	2.3194367	21	1 6.2	19.7
79406 1997 HS_{14}	17.0	X	291.59348	261.76241	188.08399	0.99601	0.1503378	0.26496165	2.4007524	21	11 4.9	19.1
79407 1997 JE_4	16.3	X	326.32937	264.35309	252.75076	1.94018	0.1069554	0.27556486	2.3387663	21	—	—
79408 1997 JE_8	16.1	X	179.17114	181.24540	62.75138	3.46234	0.1527885	0.26623264	2.3931055	21	12 31.6	19.8
79409 1997 JX_{11}	15.8	X	214.13141	218.89177	60.20590	5.82377	0.2155313	0.27291037	2.3539073	21	—	—
79410 Wallerius	15.1	X	225.61683	339.53019	224.08546	25.14045	0.2032611	0.26874348	2.3781766	21	12 21.2	18.8
79411 1997 JY_{12}	16.2	X	257.78774	207.08119	50.87245	6.39591	0.2006417	0.27615328	2.3354429	21	—	—
79412 1997 JO_{14}	15.6	X	175.54060	199.21077	99.00189	3.30411	0.2072499	0.27006620	2.3704050	21	—	—
79413 1997 JQ_{14}	16.6	X	215.04374	80.95282	191.25828	2.79729	0.1973159	0.27229673	2.3574424	21	—	—
79414 1997 JU_{15}	16.0	X	197.16176	129.88535	85.37035	3.28109	0.1427999	0.26601401	2.3944166	21	12 14.9	19.3
79415 1997 JY_{15}	16.0	X	255.51837	93.60289	116.88177	3.06069	0.1548840	0.27211642	2.3584837	21	—	—
79416 1997 JE_{18}	15.8	X	183.91488	98.30740	125.29033	2.95024	0.1659977	0.26491458	2.4010368	21	12 9.9	19.5
79417 1997 KQ_1	15.7	X	278.59065	248.65386	200.52184	6.48642	0.0754058	0.26151839	2.4217793	21	10 23.1	18.3
79418 Zhangjiajie	15.3	X	99.99825	168.48653	125.83538	5.64012	0.0804907	0.26210975	2.4181353	21	12 14.6	18.7
79419 Gaolu	15.0	X	213.36142	153.34034	278.40395	13.86306	0.1398573	0.24413620	2.5354084	21	6 27.9	18.8
79420 1997 MM_4	15.8	X	178.59837	209.55302	102.16344	5.26465	0.1841696	0.26917869	2.3756125	21	—	—
79421 1997 MF_5	15.1	X	135.48268	105.20537	276.13305	12.07266	0.1521857	0.23012119	2.6373330	21	2 4.2	19.1
79422 1997 MF_6	15.7	X	193.98443	283.04931	169.29877	14.44139	0.1421987	0.24300722	2.5432551	21	7 4.4	20.0
79423 1997 MY_8	15.7	X	215.26662	122.34993	253.61986	2.69152	0.2086418	0.23592833	2.5938766	21	4 16.4	20.0
79424 1997 NZ_3	14.8	X	338.94708	104.07353	306.15750	14.01929	0.2455462	0.21106854	2.7937468	21	11 27.4	17.5
79425 1997 OA_1	15.6	X	310.14790	306.75436	334.51911	4.49618	0.1172414	0.23889692	2.5723438	21	4 4.9	19.0
79426 1997 QZ	15.4	X	133.85404	134.97334	173.36103	4.71542	0.2263218	0.26169064	2.4207165	21	—	—
79427 1997 SC_3	15.5	X	251.03770	359.12820	0.86903	4.81294	0.1980881	0.23579103	2.5948835	21	4 28.2	19.5
79428 1997 SL_{10}	15.2	X	343.50897	138.36551	184.57517	3.46265	0.1237623	0.24507796	2.5289090	21	8 2.2	17.8
79429 1997 SO_{10}	15.6	X	281.22128	333.59758	358.97105	6.59704	0.1629106	0.23721998	2.5844524	21	4 28.5	19.2
79430 1997 SO_{11}	16.4	X	95.34966	73.69006	4.16191	1.47216	0.0857293	0.22695783	2.6617827	21	2 21.1	19.8
79431 1997 SW_{12}	15.6	X	38.28353	316.19497	173.12585	13.58156	0.1273245	0.22625293	2.6673085	21	2 1.1	18.7
79432 1997 SW_{20}	15.8	X	272.82470	244.66404	24.33619	12.41148	0.1222408	0.22688575	2.6623464	21	2 11.3	19.9
79433 1997 SM_{23}	15.4	X	163.68646	323.19565	18.00698	5.34492	0.0707504	0.22178777	2.7029893	21	1 14.3	19.4
79434 1997 SR_{25}	15.9	X	31.59409	44.98836	172.26781	16.01771	0.0999003	0.23792465	2.5793469	21	5 28.2	19.2
79435 1997 TU_2	15.2	X	275.71479	288.96193	344.04997	2.50491	0.0304422	0.22756355	2.6570573	21	2 24.8	18.9
79436 1997 TD_6	14.6	X	84.45552	356.94255	23.35232	16.13100	0.1819643	0.21766836	2.7369856	21	—	—
79437 1997 TZ_{10}	16.3	X	333.94884	39.52284	178.37940	6.07245	0.1393837	0.23176111	2.6248773	21	2 11.4	19.6
79438 1997 TD_{16}	16.3	X	24.48418	82.82843	179.88175	7.59331	0.1078671	0.24267986	2.5455418	21	7 18.7	19.2
79439 1997 TL_{16}	14.1	X	86.58406	95.61899	164.01918	2.82433	0.1819179	0.12646019	3.9309740	21	10 12.3	20.0
79440 1997 TM_{24}	14.9	X	82.70892	241.50786	153.70102	13.32394	0.1643957	0.21671980	2.7449661	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79441 1997 TB_{27}	15.7	X	184.54198	329.99522	339.08423	1.34694	0.1226657	0.22346377	2.6894572	21	—	—
79442 1997 UX	15.5	X	358.64421	296.73861	31.25754	10.32653	0.2565195	0.24483248	2.5305992	21	9 26.5	17.3
79443 1997 UL_{1}	14.7	X	142.48378	276.54407	30.95339	9.41828	0.1013654	0.21585319	2.7523082	21	—	—
79444 1997 UM_{26}	12.4	X	34.85637	176.25650	164.95765	11.99607	0.0317521	0.08328256	5.1931795	21	10 23.8	19.2
79445 1997 VT_{6}	15.1	X	182.24592	304.03800	153.21765	22.87009	0.1423758	0.19174737	2.9784006	21	7 1.2	20.3
79446 1997 VC_{7}	14.9	X	287.06582	77.11012	265.69662	4.20412	0.3168874	0.23687906	2.5869315	21	4 29.0	18.7
79447 1997 WQ_{1}	15.9	X	301.66068	196.75740	235.39246	18.16719	0.0836500	0.37063752	1.9194190	21	11 30.6	17.1
79448 1997 WS_{3}	15.0	X	49.60084	328.05978	72.74524	12.51063	0.0862747	0.21132031	2.7915273	21	—	—
79449 1997 WD_{4}	16.6	X	209.85688	280.38939	41.05337	2.52484	0.0726666	0.22439833	2.6819847	21	2 8.5	20.5
79450 1997 WP_{6}	15.2	X	347.14811	349.67454	79.70161	5.60014	0.0049681	0.20878837	2.8140502	21	12 24.7	18.9
79451 1997 WX_{9}	14.8	X	291.95746	187.04026	65.99013	14.04273	0.1251181	0.22435992	2.6822909	21	2 12.5	18.9
79452 1997 WA_{13}	15.7	X	272.16462	223.31698	227.95952	7.94615	0.1631820	0.20192371	2.8774724	21	9 21.5	19.7
79453 1997 WU_{14}	15.5	X	139.52660	348.58521	0.91948	1.29051	0.2844273	0.22085887	2.7105629	21	1 21.2	19.8
79454 1997 WA_{21}	15.5	X	127.68984	358.62363	29.87238	10.75551	0.1453576	0.22169958	2.7037060	21	2 13.6	19.5
79455 1997 WH_{46}	14.9	X	226.26287	239.33191	161.62317	2.41880	0.1942901	0.19193771	2.9764311	21	5 30.4	19.8
79456 1997 WP_{56}	15.8	X	246.59023	200.06951	253.86008	0.05506	0.0842736	0.19985778	2.8972680	21	9 6.6	19.8
79457 1997 XD_{6}	14.9	X	339.60973	276.08575	55.90329	14.79495	0.2001810	0.24141167	2.5544489	21	8 12.3	17.5
79458 1997 YM	15.0	X	302.93216	240.38344	156.98102	2.55055	0.1053523	0.19600866	2.9350751	21	9 6.1	18.6
79459 1997 YS	13.8	X	173.12571	129.04148	275.69045	5.63525	0.0449780	0.18146040	3.0899265	21	4 12.5	18.5
79460 1997 YG_{2}	14.7	X	216.15151	325.37396	103.49910	9.56637	0.0938846	0.18909569	3.0061798	21	6 30.4	19.2
79461 1997 YX_{7}	14.5	X	138.31722	35.76714	103.84641	2.45093	0.1022694	0.18630058	3.0361735	21	7 7.7	19.0
79462 1997 YB_{13}	15.8	X	154.86519	335.16474	101.40297	0.84560	0.2334499	0.18361541	3.0657022	21	5 15.3	21.1
79463 1997 YE_{13}	14.5	X	118.67679	179.41719	289.83643	8.13676	0.1088449	0.18161283	3.0881972	21	5 7.3	19.1
79464 1997 YW_{16}	14.3	X	155.75775	279.14281	102.61589	16.59166	0.2449442	0.17939428	3.1136061	21	3 20.9	19.8
79465 1997 YH_{17}	14.9	X	160.98682	343.99808	110.24255	8.29134	0.0627300	0.18471159	3.0535612	21	6 3.9	19.5
79466 1997 YK_{17}	15.6	X	119.23017	36.02546	37.93928	0.53710	0.1864686	0.17904427	3.1176625	21	4 6.5	20.1
79467 1997 YB_{18}	14.2	X	16.66887	248.88257	309.85300	9.73124	0.1251517	0.17724518	3.1387237	21	4 5.2	18.2
79468 1997 YZ_{20}	14.4	X	177.69024	208.95554	292.06056	9.29934	0.0567201	0.19112514	2.9848614	21	8 17.1	18.9
79469 1998 AH_{2}	14.3	X	175.12863	306.42895	109.16124	11.04807	0.0830505	0.18285956	3.0741445	21	5 6.2	19.1
79470 1998 AE_{4}	15.4	X	79.27686	265.14095	321.22094	2.00479	0.1197885	0.18816007	3.0161371	21	8 21.2	19.7
79471 1998 AH_{4}	14.4	X	274.51153	86.74347	300.18774	8.88225	0.0649598	0.19046501	2.9917542	21	7 19.7	18.5
79472 Chiorny	14.9	X	242.64492	331.34649	93.32333	24.34249	0.0800368	0.35858488	1.9621916	21	8 3.3	17.3
79473 1998 BX_{8}	13.9	X	197.39491	131.42858	339.70423	10.67086	0.0644808	0.18806022	3.0172045	21	8 6.3	18.4
79474 1998 BT_{9}	14.9	X	211.03643	98.89456	89.71269	10.24383	0.0704882	0.20579403	2.8412811	21	11 26.2	19.0
79475 1998 BD_{17}	14.9	X	239.29365	224.01173	138.46819	10.16241	0.1125140	0.18070613	3.0985187	21	5 5.7	19.8
79476 1998 BP_{29}	14.4	X	215.50670	67.21532	321.16704	7.71608	0.0775996	0.18251578	3.0780035	21	5 8.3	19.2
79477 1998 CN	14.0	X	143.74280	87.33289	309.90315	11.66744	0.2239750	0.17677324	3.1443077	21	3 15.6	19.4
79478 1998 CB_{1}	14.0	X	141.55844	238.12677	155.21892	26.39887	0.2084590	0.17443109	3.1723916	21	3 15.2	19.2
79479 1998 CJ_{2}	14.0	X	86.42312	139.76258	344.04288	9.98612	0.1743527	0.17730598	3.1380062	21	4 24.5	18.5
79480 1998 DZ_{9}	14.3	X	134.55962	263.40025	175.42035	10.07425	0.2231838	0.17946024	3.1128430	21	5 2.6	19.4
79481 1998 EO_{12}	13.9	X	87.97459	132.78738	17.81113	11.80012	0.1256659	0.17748139	3.1359383	21	5 24.6	18.5
79482 1998 EX_{12}	14.2	X	317.96553	93.51816	76.07425	2.01598	0.1487667	0.16351691	3.3120301	21	—	—
79483 1998 ET_{19}	15.2	X	102.05287	17.29019	121.23487	1.52463	0.1017811	0.17913113	3.1166546	21	5 26.5	19.5
79484 1998 FH_{3}	14.4	X	208.08072	290.09526	114.86069	10.57236	0.1260104	0.18099830	3.0951834	21	5 24.5	19.4
79485 1998 FH_{10}	13.2	X	100.95252	88.20257	359.47794	22.03260	0.1107609	0.17131041	3.2108022	21	3 23.3	17.7
79486 1998 FQ_{10}	14.8	X	110.93212	287.89416	192.89038	15.60754	0.0718010	0.17562380	3.1580122	21	5 12.5	19.5
79487 1998 FL_{26}	14.0	X	138.90791	104.23254	354.12559	22.06922	0.1577095	0.17927886	3.1149422	21	5 13.9	19.3
79488 1998 FF_{31}	14.6	X	59.83358	21.10168	138.17654	6.14523	0.1165837	0.17485249	3.1672924	21	5 1.2	18.7
79489 1998 FP_{34}	14.0	X	1.47885	47.41087	182.31287	24.67141	0.1967493	0.17321205	3.1872586	21	4 26.0	17.7
79490 1998 FC_{42}	13.8	X	305.67948	100.94184	183.45187	21.26241	0.3250224	0.17162775	3.2068431	21	3 12.8	18.5
79491 1998 FS_{42}	14.4	X	95.66198	214.08681	245.71064	1.70359	0.1795596	0.17342258	3.1846786	21	4 10.8	18.9
79492 1998 FB_{58}	14.0	X	134.31700	251.75554	188.42006	25.27206	0.1251372	0.17434505	3.1734353	21	4 25.2	19.0
79493 1998 FD_{63}	14.4	X	358.31493	202.62553	9.97090	16.34163	0.1195123	0.17101191	3.2145373	21	3 30.3	18.2
79494 1998 FC_{90}	14.3	X	152.11215	101.34581	30.37532	10.88187	0.0723092	0.18272669	3.0756345	21	7 12.4	19.1
79495 1998 FC_{91}	14.3	X	328.00694	240.29485	41.55186	10.00200	0.0566558	0.17769056	3.1334768	21	5 16.7	18.4
79496 1998 FK_{91}	14.3	X	325.50362	197.53579	56.02950	10.35808	0.1845543	0.17159714	3.2072245	21	3 27.9	18.5
79497 1998 FY_{123}	14.5	X	89.56717	113.66832	44.43129	9.37432	0.1423029	0.17894278	3.1188412	21	6 9.5	18.9
79498 1998 FP_{126}	14.8	X	37.35337	47.02985	160.74531	8.04071	0.1046420	0.17579640	3.1559448	21	5 28.1	18.9
79499 1998 FB_{127}	13.6	X	41.75206	80.61906	104.87921	22.94001	0.0298489	0.17334710	3.1856031	21	5 7.9	18.4
79500 1998 FK_{133}	14.9	X	349.58178	57.98110	131.08151	1.20912	0.2669673	0.16864368	3.2445614	21	1 27.7	18.3
79501 1998 FN_{135}	14.3	X	53.63478	298.59902	195.79272	19.96764	0.1134851	0.17063479	3.2192719	21	3 16.6	18.6
79502 1998 FB_{143}	14.5	X	21.53058	332.13519	205.65042	12.54793	0.0611587	0.17001062	3.2271465	21	3 20.7	18.8
79503 1998 GA_{5}	13.4	X	179.64403	63.56255	66.03041	16.90916	0.1718042	0.18519377	3.0482585	21	8 11.4	18.7
79504 1998 GZ_{5}	14.1	X	113.49391	95.33895	50.10503	17.42465	0.0848280	0.17846867	3.1243624	21	6 13.1	18.8
79505 1998 GC_{6}	14.1	X	74.12823	131.82684	57.32581	15.79918	0.1427099	0.17792952	3.1306706	21	6 30.1	18.5
79506 1998 HG_{7}	14.6	X	203.33797	249.25110	47.91445	24.10263	0.2290358	0.28604090	2.2813082	21	—	—
79507 1998 HD_{42}	16.7	X	256.36384	279.62003	132.43210	4.25163	0.1171329	0.30958548	2.1641249	21	7 24.3	19.3
79508 1998 HB_{52}	14.0	X	322.29729	75.59105	214.86752	21.23871	0.1805797	0.17301121	3.1897248	21	5 5.4	18.0
79509 1998 HT_{136}	14.7	X	19.69415	60.95430	128.55970	6.12309	0.0947919	0.17125540	3.2114897	21	4 7.0	18.7
79510 1998 HO_{153}	14.0	X	6.68863	110.72373	95.61157	17.75256	0.1417775	0.17018711	3.2249151	21	4 14.3	18.2
79511 1998 JR_{4}	16.2	X	28.50659	243.74364	47.69825	8.60494	0.1590832	0.30741259	2.1743108	21	9 29.2	18.2
79512 1998 KE_{3}	15.3	X	338.32950	130.55822	62.92191	47.92617	0.2527139	0.33608945	2.0487995	21	—	—
79513 1998 KM_{19}	16.2	X	6.11531	98.05834	202.19116	6.24413	0.2250852	0.30454698	2.1879288	21	8 27.5	17.4
79514 1998 KM_{26}	13.8	X	323.24849	103.79513	32.34306	15.69562	0.0696819	0.15725406	3.3993937	21	—	—
79515 1998 KU_{29}	13.4	X	355.94732	117.32375	91.65985	8.48557	0.1081319	0.12471915	3.9674727	21	4 2.9	18.5
79516 1998 KP_{58}	15.8	X	292.00010	9.09728	275.14579	6.53685	0.2272798	0.29377500	2.2410910	21	2 20.9	19.2
79517 1998 MD	15.3	X	224.59145	72.48377	287.55949	5.60894	0.2829787	0.24634566	2.5202257	21	3 30.6	19.9
79518 1998 MF_{3}	15.4	X	217.76654	170.46059	359.66417	3.03266	0.0662594	0.31246042	2.1508298	21	11 27.8	17.9
79519 1998 MQ_{3}	15.1	X	167.18703	32.27981	133.02945	5.13086	0.1272343	0.18284124	3.0743498	21	9 8.4	20.0
79520 1998 MZ_{16}	15.7	X	334.94508	71.90075	303.76984	6.08537	0.2356022	0.26029277	2.4293755	21	10 4.3	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79521 1998 ML_{29}	16.0	X	279.09335	340.66093	343.80344	4.06815	0.2019181	0.29345170	2.2427367	21	4 5.9	19.3
79522 1998 MS_{33}	15.7	X	79.80642	230.41758	98.40801	9.03475	0.1411866	0.27008505	2.3702947	21	—	—
79523 1998 OC_{1}	16.8	X	322.72394	144.65494	167.44840	6.76827	0.1407829	0.29607516	2.2294688	21	6 3.9	19.0
79524 1998 OY_{9}	16.5	X	46.25423	118.94598	162.80178	4.05888	0.1869892	0.30351330	2.1928936	21	10 14.8	18.8
79525 1998 OZ_{9}	16.0	X	312.86380	12.75762	306.91163	6.55499	0.2414972	0.29564531	2.2316293	21	5 5.8	18.6
79526 1998 OL_{12}	15.7	X	268.37293	315.01720	329.55966	7.37278	0.1862747	0.28830449	2.2693516	21	2 6.7	19.0
79527 1998 OL_{14}	15.6	X	35.08429	272.14927	336.45661	5.37017	0.1498695	0.29814806	2.2191231	21	7 27.5	17.4
79528 1998 QG	16.1	X	154.86021	321.66066	335.89496	4.29837	0.1123428	0.27332175	2.3515448	21	—	—
79529 1998 QP_{1}	15.5	X	285.27151	327.26911	338.37440	7.22878	0.1837585	0.29070660	2.2568332	21	3 20.5	18.6
79530 1998 QD_{4}	15.9	X	238.30968	294.79446	47.91004	6.05431	0.1286617	0.28771105	2.2724710	21	3 28.9	19.1
79531 1998 QX_{6}	15.2	X	127.72611	11.62444	311.03659	13.22669	0.1519114	0.27457221	2.3443998	21	—	—
79532 1998 QX_{17}	16.0	X	9.18832	131.34991	163.44639	7.22158	0.1895860	0.29995914	2.2101817	21	8 22.0	17.4
79533 1998 QN_{20}	15.7	X	11.78245	59.09099	297.73537	5.48789	0.1266633	0.26238135	2.4164663	21	11 17.3	18.4
79534 1998 QQ_{21}	16.3	X	136.16069	345.66256	3.86008	2.89353	0.2233256	0.27638524	2.3341360	21	—	—
79535 1998 QW_{23}	14.8	X	88.32626	287.09617	168.63105	8.47735	0.1337719	0.28234785	2.3011577	21	3 2.9	17.1
79536 1998 QM_{29}	16.1	X	230.88947	258.22651	200.26928	6.09802	0.0687320	0.25727209	2.4483543	21	8 28.4	19.4
79537 1998 QX_{31}	15.7	X	87.17166	196.02008	126.23506	3.40676	0.2004774	0.26836283	2.3804249	21	—	—
79538 1998 QN_{34}	15.5	X	266.77972	5.44164	347.03836	4.73162	0.1919769	0.29229359	2.2486569	21	4 30.9	18.7
79539 1998 QS_{35}	15.1	X	61.46078	65.91715	356.08558	6.08213	0.0931235	0.27517714	2.3409626	21	—	—
79540 1998 QW_{36}	15.4	X	125.99861	78.20614	284.34386	5.42430	0.1352091	0.27594564	2.3366143	21	—	—
79541 1998 QQ_{37}	16.1	X	9.20004	345.08167	308.06951	5.01425	0.1892359	0.29921477	2.2138458	21	8 18.7	17.4
79542 1998 QH_{38}	15.8	X	242.00387	303.26126	7.21901	5.08089	0.1690766	0.28564647	2.2834078	21	2 16.9	19.3
79543 1998 QB_{39}	15.6	X	2.95995	87.48958	259.08422	1.91052	0.1414017	0.25976019	2.4326950	21	10 19.9	18.0
79544 1998 QD_{41}	15.9	X	31.64777	221.69769	174.96031	4.09402	0.1358109	0.26795057	2.3828658	21	—	—
79545 1998 QG_{41}	16.2	X	232.53355	345.70922	317.14085	2.36556	0.2431276	0.28400101	2.2922191	21	1 27.7	20.0
79546 1998 QJ_{41}	16.0	X	94.12716	22.04426	319.57606	1.94569	0.1788598	0.27023853	2.3693972	21	—	—
79547 1998 QS_{42}	15.4	X	119.56231	113.44572	188.98595	7.06738	0.1829812	0.26981043	2.3719028	21	—	—
79548 1998 QD_{44}	15.4	X	250.30464	342.11644	2.59467	4.03400	0.1654248	0.28934964	2.2638836	21	4 7.2	18.6
79549 1998 QH_{44}	15.5	X	23.73066	178.32678	142.83836	7.42013	0.1769325	0.30326134	2.1941081	21	11 7.0	17.7
79550 1998 QO_{46}	15.7	X	191.79601	200.50854	157.44741	11.03534	0.1695717	0.28316847	2.2967098	21	3 1.6	19.2
79551 1998 QB_{47}	15.0	X	318.74116	39.58431	12.76834	5.69641	0.1845156	0.26010216	2.4305622	21	10 28.4	16.9
79552 1998 QE_{47}	15.7	X	231.11882	304.48390	56.34060	3.20736	0.2156195	0.28824761	2.2696501	21	4 8.9	19.3
79553 1998 QN_{48}	16.0	X	108.15267	65.47159	320.83027	5.20921	0.2968522	0.23128325	2.6284916	21	2 2.7	19.5
79554 1998 QT_{48}	16.4	X	22.77151	94.10519	274.42027	1.09776	0.2264894	0.26347155	2.4097957	21	—	—
79555 1998 QU_{48}	15.4	X	112.04548	262.05303	174.31400	4.43025	0.0266899	0.28279608	2.2987256	21	2 21.9	18.2
79556 1998 QX_{49}	15.6	X	280.45469	224.80803	46.11895	4.88228	0.1013509	0.28537257	2.2848686	21	2 11.6	18.7
79557 1998 QA_{51}	16.0	X	211.52809	316.24894	354.23420	4.70737	0.1787149	0.28134515	2.3066220	21	1 20.9	19.6
79558 1998 QE_{51}	15.8	X	52.79529	329.81142	331.07872	2.26185	0.2519687	0.30531023	2.1842808	21	11 26.3	18.7
79559 1998 QQ_{51}	14.7	X	334.97370	107.68435	308.72345	5.56172	0.1229579	0.26257597	2.4152721	21	12 9.1	17.1
79560 1998 QC_{56}	14.7	X	101.54462	47.54786	1.79381	31.74103	0.3088016	0.23089579	2.6314313	21	3 7.8	18.5
79561 1998 QT_{58}	15.9	X	299.32089	4.89680	354.88357	5.99485	0.1281006	0.25240171	2.4797497	21	7 9.8	18.8
79562 1998 QU_{62}	15.2	X	242.89359	263.88255	10.92819	3.13989	0.1740189	0.27956833	2.3163850	21	1 4.2	18.9
79563 1998 QD_{70}	14.6	X	290.00983	177.45980	256.66953	9.17683	0.2360928	0.25812158	2.4429796	21	9 17.8	17.4
79564 1998 QV_{72}	16.2	X	158.28576	31.51383	277.66341	5.84599	0.1502034	0.27500959	2.3419133	21	—	—
79565 1998 QV_{75}	15.4	X	216.18329	184.74931	192.32878	13.68825	0.1809710	0.24441760	2.5334620	21	4 20.9	19.5
79566 1998 QZ_{76}	15.1	X	102.56788	191.58088	196.52452	13.50834	0.2516403	0.23078883	2.6322443	21	1 18.6	18.6
79567 1998 QO_{83}	15.3	X	311.85611	107.82476	275.81685	12.18666	0.1528063	0.25685088	2.4510303	21	8 25.6	18.0
79568 1998 QS_{85}	15.6	X	157.48993	14.40705	306.70146	10.39596	0.0654970	0.27521619	2.3407412	21	—	—
79569 1998 QQ_{88}	15.7	X	18.28364	209.90155	233.85313	9.93515	0.0870029	0.27149540	2.3620789	21	—	—
79570 1998 QK_{90}	15.0	X	108.87287	51.27335	265.56274	11.37579	0.2063187	0.26898504	2.3767525	21	—	—
79571 1998 QG_{92}	15.9	X	101.99770	227.24126	113.65895	4.49666	0.3150866	0.26949309	2.3737645	21	—	—
79572 1998 QP_{92}	15.5	X	179.81575	254.98425	90.72515	3.41046	0.2532232	0.27855190	2.3220165	21	2 9.8	19.3
79573 1998 QW_{92}	14.6	X	25.75439	340.47942	65.92302	3.29890	0.2020718	0.26417237	2.4055319	21	—	—
79574 1998 QV_{93}	15.7	X	125.75521	241.70246	164.97163	11.63901	0.1552677	0.28085467	2.3093067	21	2 20.2	18.6
79575 1998 QZ_{93}	16.2	X	261.94524	286.18999	3.93813	5.49105	0.1672180	0.28655735	2.2785663	21	2 10.2	19.6
79576 1998 QG_{98}	15.7	X	343.00811	117.97606	184.63310	8.36125	0.2710111	0.29638319	2.2279238	21	6 12.9	17.0
79577 1998 QX_{99}	15.9	X	136.78716	352.65554	37.41799	3.30206	0.2388191	0.23535088	2.5981177	21	3 2.7	19.9
79578 1998 QD_{100}	16.0	X	256.90296	251.30054	20.28243	6.36776	0.1060488	0.28177802	2.3042591	21	1 17.0	19.3
79579 1998 QY_{102}	15.6	X	336.10839	31.99108	36.62301	6.65069	0.0873717	0.26419886	2.4053711	21	12 27.2	18.2
79580 1998 QW_{103}	15.8	X	299.55600	285.47597	53.78241	5.08024	0.1376093	0.29388248	2.2405446	21	6 4.9	18.3
79581 1998 QC_{106}	15.8	X	99.23062	226.41370	75.37977	3.97790	0.1774693	0.26709147	2.3879728	21	12 29.7	19.6
79582 1998 QF_{108}	15.9	X	231.96729	311.50031	322.61406	7.14225	0.1092740	0.28146744	2.3059538	21	—	—
79583 1998 QW_{108}	16.3	X	61.00182	52.10349	271.03092	0.95327	0.1943546	0.26555321	2.3971857	21	12 20.6	19.8
79584 1998 RW_{5}	15.9	X	327.80302	301.87453	4.66488	2.92219	0.0948179	0.29464963	2.2366539	21	6 10.1	18.0
79585 1998 RD_{16}	16.1	X	68.56300	220.33062	158.89901	8.17504	0.0775992	0.26878220	2.3779481	21	—	—
79586 1998 RB_{17}	16.4	X	106.57251	348.77421	7.24730	5.01570	0.2506377	0.27332705	2.3515144	21	—	—
79587 1998 RE_{18}	16.1	X	60.55045	18.56710	336.13365	6.50093	0.1350615	0.26779844	2.3837682	21	—	—
79588 1998 RJ_{18}	15.1	X	100.33409	92.56716	295.99994	5.31956	0.0968144	0.27591591	2.3367821	21	—	—
79589 1998 RF_{19}	15.8	X	30.67727	292.51133	108.69324	2.98884	0.2116285	0.26773156	2.3841651	21	—	—
79590 1998 RX_{19}	15.5	X	163.17820	145.41127	229.25474	4.56708	0.1747752	0.28141025	2.3062663	21	2 21.7	19.0
79591 1998 RO_{20}	15.8	X	54.32921	129.91632	164.68201	3.54759	0.1937680	0.30443353	2.1884723	21	11 13.5	18.5
79592 1998 RZ_{25}	16.2	X	223.66439	289.88166	46.94722	2.33705	0.1630692	0.28550347	2.2841702	21	3 4.8	19.8
79593 1998 RP_{30}	15.8	X	190.08941	253.02532	334.42336	6.23112	0.0835856	0.26874350	2.3781764	21	12 29.9	19.1
79594 1998 RA_{31}	15.6	X	338.79756	197.85541	222.49685	3.56436	0.1376417	0.26363699	2.4087875	21	12 23.9	17.8
79595 1998 RX_{31}	15.3	X	284.10278	307.12881	314.24369	5.99100	0.0871065	0.28383727	2.2931006	21	2 2.9	18.4
79596 1998 RH_{33}	15.7	X	73.38146	271.49694	110.73904	3.64368	0.1022421	0.27142989	2.3624589	21	—	—
79597 1998 RN_{34}	15.6	X	11.30726	324.83260	57.98739	3.18509	0.2166749	0.26328539	2.4109315	21	—	—
79598 1998 RA_{37}	15.9	X	323.42172	341.73975	292.44439	5.58460	0.1268574	0.29033811	2.2587423	21	4 4.8	18.6
79599 1998 RB_{37}	15.3	X	261.15613	146.04056	296.65899	6.21414	0.0905138	0.25658382	2.4527307	21	9 11.6	18.6
79600 1998 RR_{40}	15.4	X	250.10293	294.82571	31.72906	3.73953	0.1799626	0.28740002	2.2741103	21	3 15.6	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79601 1998 RB_{43}	16.3	X	293.00915	63.04964	312.66291	4.22588	0.1459739	0.25321388	2.4744445	21	7 19.3	19.1
79602 1998 RW_{43}	15.7	X	125.47662	90.57746	337.00866	3.78552	0.2689512	0.23702954	2.5858365	21	4 7.4	19.6
79603 1998 RK_{44}	15.6	X	114.34139	162.02496	148.56740	9.34230	0.2546843	0.27012331	2.3700709	21	—	—
79604 1998 RD_{46}	15.4	X	310.20776	8.87813	338.85903	7.23266	0.2257672	0.25295459	2.4761351	21	6 22.3	18.2
79605 1998 RR_{46}	15.9	X	227.14775	357.37368	299.17035	3.51192	0.1703497	0.28126595	2.3070550	21	1 16.4	19.3
79606 1998 RU_{46}	15.7	X	184.96096	300.69348	307.21206	5.89422	0.0656669	0.26944158	2.3740670	21	—	—
79607 1998 RD_{48}	15.6	X	166.82959	118.63721	313.38497	3.41741	0.2056230	0.24279321	2.5447494	21	5 14.7	19.9
79608 1998 RC_{49}	16.0	X	89.08783	12.84757	339.40359	2.85516	0.1610425	0.26979754	2.3719784	21	—	—
79609 1998 RC_{50}	15.6	X	341.52825	353.41331	41.43438	3.18050	0.1854101	0.26040399	2.4286837	21	11 24.1	17.4
79610 1998 RF_{51}	15.8	X	335.85617	89.41648	280.15341	4.05747	0.1236840	0.25749692	2.4469289	21	9 28.1	18.2
79611 1998 RC_{52}	15.4	X	133.22512	308.21472	23.17246	5.82153	0.3005334	0.27394717	2.3479644	21	—	—
79612 1998 RH_{56}	15.9	X	356.79703	75.55497	212.91159	3.97690	0.1627517	0.29571174	2.2312951	21	7 6.1	17.3
79613 1998 RJ_{56}	14.9	X	32.83065	64.23063	332.78379	5.69288	0.0949542	0.26717552	2.3874719	21	—	—
79614 1998 RB_{57}	15.1	X	269.77453	165.47903	326.21724	2.13525	0.1353367	0.26336064	2.4104723	21	11 28.6	17.8
79615 1998 RT_{57}	15.5	X	266.28666	343.34158	128.63391	3.13466	0.1415847	0.25999881	2.4312063	21	10 26.9	18.2
79616 1998 RV_{57}	15.7	X	272.94672	244.74104	16.31082	4.49145	0.1704223	0.28284472	2.2984620	21	1 14.9	19.3
79617 1998 RW_{60}	15.3	X	193.23911	350.27650	312.06387	5.33828	0.1470753	0.27687711	2.3313708	21	—	—
79618 1998 RY_{61}	15.8	X	333.50636	339.31378	332.69597	2.00842	0.1829474	0.29551514	2.2322846	21	6 18.6	17.3
79619 1998 RA_{62}	16.4	X	76.19106	30.15087	320.71208	1.66103	0.1501752	0.26776197	2.3839846	21	—	—
79620 1998 RC_{62}	16.1	X	163.73259	149.98537	183.85077	6.88341	0.1342216	0.27658805	2.3329948	21	—	—
79621 1998 RF_{62}	15.3	X	335.52208	88.47439	357.27935	6.64453	0.0927681	0.26549768	2.3975199	21	—	—
79622 1998 RT_{62}	16.3	X	190.35809	177.27790	154.18564	4.02717	0.1933516	0.28012067	2.3133390	21	1 27.2	19.8
79623 1998 RV_{63}	15.5	X	16.26945	155.81484	153.83943	5.90564	0.2147506	0.30077021	2.2062065	21	10 11.7	17.2
79624 1998 RN_{64}	16.0	X	164.36788	151.84396	159.22520	2.82439	0.1840003	0.27499911	2.3419728	21	—	—
79625 1998 RW_{64}	15.5	X	185.91134	84.12849	358.22703	7.55107	0.2041400	0.24555936	2.5256028	21	6 13.4	19.9
79626 1998 RQ_{66}	15.0	X	305.58458	162.93962	231.51867	3.11804	0.0290381	0.25604980	2.4561398	21	9 19.7	18.0
79627 1998 RP_{67}	15.3	X	199.44349	68.65281	350.32199	11.19632	0.0524389	0.24600222	2.5225708	21	5 26.9	19.0
79628 1998 RJ_{69}	16.1	X	87.87559	342.76687	5.53342	2.21862	0.1741852	0.26891213	2.3771821	21	—	—
79629 1998 RC_{71}	15.8	X	258.26677	264.87610	144.22607	5.81203	0.0719408	0.25206716	2.4819434	21	7 27.8	18.9
79630 1998 RR_{71}	15.5	X	37.14581	277.21786	107.90322	1.99823	0.1604754	0.26596702	2.3946986	21	—	—
79631 1998 RZ_{72}	15.3	X	166.14062	309.13559	359.36705	6.68898	0.1437470	0.27409567	2.3471163	21	—	—
79632 1998 RC_{73}	16.0	X	42.11537	23.00957	1.84475	7.13720	0.1188473	0.26632941	2.3925258	21	—	—
79633 1998 RM_{73}	15.3	X	169.94568	57.70888	355.74687	9.63528	0.2005480	0.24068757	2.5595696	21	4 21.9	19.6
79634 1998 RY_{73}	15.5	X	165.39664	31.93166	322.43841	5.76411	0.1314452	0.27819108	2.3240238	21	1 28.0	18.6
79635 1998 RY_{75}	15.9	X	217.64149	102.56771	167.08790	7.86506	0.1956989	0.27687058	2.3314074	21	—	—
79636 1998 RE_{77}	15.2	X	164.66390	9.87219	34.12820	6.29789	0.2294865	0.23939806	2.5687527	21	4 11.3	19.5
79637 1998 RT_{77}	15.7	X	185.32542	138.65573	153.79906	5.14135	0.1563049	0.27498928	2.3420287	21	—	—
79638 1998 RL_{78}	15.7	X	254.28278	284.42850	53.05728	4.52612	0.1701637	0.28785191	2.2717296	21	4 3.9	19.1
79639 1998 RP_{78}	14.6	X	139.70248	241.83680	150.40470	7.39478	0.1183183	0.27895516	2.3197781	21	2 14.1	17.7
79640 1998 RG_{80}	15.6	X	139.65008	320.24567	85.00778	5.76376	0.1825902	0.23633007	2.5909362	21	3 19.9	19.5
79641 Daniloceirani	16.7	X	243.57988	101.48607	211.96144	0.89448	0.2581779	0.28497082	2.2870156	21	2 16.8	20.5
79642 1998 SU_{8}	16.2	X	158.66891	253.66263	24.82945	1.51085	0.2279054	0.27071952	2.3665899	21	—	—
79643 1998 SF_{10}	15.7	X	137.95602	4.74296	33.81454	5.48331	0.1760088	0.23417530	2.6068057	21	3 8.6	19.5
79644 1998 SA_{11}	17.0	X	17.86564	40.67987	243.72825	2.48942	0.2032182	0.30024985	2.2087549	21	8 26.5	18.4
79645 1998 SM_{11}	15.8	X	347.69833	115.11070	247.78671	3.54727	0.1947614	0.26089750	2.4256200	21	10 18.2	17.7
79646 1998 SB_{13}	15.9	X	340.48216	150.70383	147.81839	6.46860	0.2143577	0.29462357	2.2367858	21	6 7.9	17.4
79647 Ballack	15.7	X	301.63291	176.61756	306.31851	1.75458	0.1359054	0.26542258	2.3979721	21	—	—
79648 1998 SQ_{15}	16.2	X	175.64148	207.05122	218.57746	1.13908	0.1768488	0.24388377	2.5371576	21	5 14.5	20.4
79649 1998 SS_{15}	16.3	X	132.98807	37.97640	305.31642	0.90717	0.0967247	0.27427089	2.3461165	21	—	—
79650 1998 SB_{16}	16.2	X	278.37683	217.08667	287.32073	0.42926	0.1314749	0.26678561	2.3897976	21	—	—
79651 1998 SD_{17}	16.4	X	207.23553	236.13548	58.77443	2.27760	0.0594277	0.27645616	2.3337368	21	—	—
79652 1998 SA_{20}	16.5	X	313.50330	300.50090	343.84468	1.16643	0.1378089	0.29125331	2.2540081	21	4 5.4	19.1
79653 1998 SW_{21}	15.7	X	341.66478	35.51112	353.41711	7.82552	0.1989430	0.26021694	2.4298474	21	11 13.2	17.7
79654 1998 SS_{22}	15.4	X	6.24547	20.77815	358.64649	6.80900	0.1285419	0.26146119	2.4221325	21	12 10.8	18.2
79655 1998 SU_{23}	15.8	X	161.57177	238.67791	58.71793	5.17733	0.1464878	0.27297082	2.3535598	21	—	—
79656 1998 SZ_{23}	15.8	X	172.70634	326.80446	60.30799	5.02355	0.1710084	0.23953270	2.5677901	21	3 27.1	19.9
79657 1998 SR_{24}	15.5	X	90.65600	156.57736	149.17833	5.71458	0.2590555	0.26571890	2.3961891	21	12 31.4	19.7
79658 1998 SO_{25}	15.4	X	48.94174	335.84564	46.58575	6.32260	0.2384266	0.26620083	2.3932962	21	—	—
79659 1998 SJ_{28}	15.7	X	93.54757	33.72853	17.62937	11.71824	0.1771872	0.23127388	2.6285626	21	1 31.9	19.0
79660 1998 SX_{28}	16.1	X	313.10518	16.97696	96.90014	1.70325	0.0950121	0.26543383	2.3979044	21	—	—
79661 1998 SN_{29}	16.4	X	37.02147	244.81784	39.36132	4.67416	0.1501051	0.29898542	2.2149778	21	9 27.3	18.5
79662 1998 SS_{30}	15.8	X	237.03219	81.77024	53.77718	1.31574	0.1669992	0.25787514	2.4445358	21	10 14.2	18.9
79663 1998 SU_{32}	15.8	X	47.82788	261.32946	177.00731	11.83284	0.2596237	0.22876936	2.6477124	21	—	—
79664 1998 SN_{33}	15.3	X	94.26443	338.27348	13.44385	14.87921	0.2699200	0.27057468	2.3674344	21	—	—
79665 1998 SB_{34}	14.8	X	76.38146	79.97849	356.74938	21.76588	0.0514873	0.23300326	2.6155401	21	1 26.8	18.5
79666 1998 SH_{34}	15.6	X	211.97790	275.00146	3.63910	23.85488	0.1184657	0.27622589	2.3350336	21	—	—
79667 1998 SJ_{34}	15.7	X	268.37774	44.43356	11.13473	14.69701	0.0920668	0.25374720	2.4709761	21	8 24.4	19.0
79668 1998 SM_{37}	16.0	X	78.18950	116.73499	342.02894	2.13504	0.0470682	0.23428042	2.6060258	21	2 17.8	19.1
79669 1998 SV_{38}	15.4	X	79.39118	214.60128	184.10516	6.26478	0.1075006	0.27331686	2.3515728	21	—	—
79670 1998 SF_{43}	15.4	X	283.24883	288.44730	6.67196	6.12634	0.1948105	0.28696797	2.2763923	21	3 6.8	18.7
79671 1998 SJ_{43}	15.4	X	186.37368	56.67270	330.64241	1.82223	0.1645270	0.24016004	2.5633164	21	4 5.4	19.6
79672 1998 SM_{43}	15.0	X	112.78689	351.01604	9.21705	14.56181	0.1144559	0.22850820	2.6497294	21	—	—
79673 1998 SG_{44}	16.2	X	22.69906	17.00107	358.76282	5.33168	0.1012962	0.26509436	2.3999511	21	12 28.8	19.1
79674 1998 SP_{44}	15.7	X	268.41701	321.45950	22.20812	4.11957	0.1840943	0.29015726	2.2596808	21	4 23.3	18.9
79675 1998 SS_{44}	15.9	X	172.56272	203.52942	262.65314	2.29872	0.1543507	0.24521093	2.5279947	21	7 1.9	19.9
79676 1998 SG_{47}	15.7	X	87.01446	37.28850	1.13864	7.05040	0.1126802	0.27400453	2.3476367	21	—	—
79677 1998 SK_{48}	16.1	X	137.84629	118.97856	2.83105	2.27718	0.1374912	0.24279788	2.5447168	21	6 16.5	19.8
79678 1998 SQ_{48}	16.0	X	124.86299	338.97804	304.48818	1.48273	0.1579069	0.26502609	2.4003632	21	12 29.3	19.8
79679 1998 SK_{49}	16.1	X	302.88764	88.99968	209.46582	6.38444	0.1880695	0.29348556	2.2425642	21	4 1.2	18.8
79680 1998 SK_{50}	15.4	X	205.76036	356.21866	47.03806	4.31562	0.2526768	0.24375467	2.5380534	21	5 11.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79681 1998 SL_{53}	16.2	X	317.00761	106.95225	191.26556	6.95330	0.1598346	0.29253881	2.2474001	21	4 29.4	18.4
79682 1998 SD_{55}	16.4	X	317.28246	217.13737	182.79705	2.39861	0.1934996	0.25757512	2.4464337	21	10 5.1	18.1
79683 1998 SF_{55}	16.1	X	107.05275	169.72354	154.97592	2.30820	0.2491394	0.26998043	2.3709071	21	—	—
79684 1998 SJ_{55}	15.9	X	59.55404	156.66378	174.77460	6.68303	0.1351087	0.26422290	2.4052252	21	12 22.2	19.2
79685 1998 SN_{55}	15.8	X	307.26155	34.27372	15.43026	2.90874	0.1714098	0.25736217	2.4477830	21	10 1.1	18.1
79686 1998 SY_{58}	15.5	X	169.87027	314.68942	27.12371	3.05031	0.1642809	0.27791386	2.3255691	21	1 20.3	18.8
79687 1998 SC_{59}	16.2	X	308.53467	359.48274	45.51478	3.11860	0.1917429	0.25636638	2.4541174	21	9 24.7	18.2
79688 1998 SJ_{59}	15.7	X	125.25034	218.00619	159.09697	5.08060	0.1611962	0.27545354	2.3393964	21	1 13.0	18.6
79689 1998 SK_{59}	15.5	X	88.09754	265.77405	61.81856	1.62939	0.2085220	0.26709124	2.3879741	21	—	—
79690 1998 SH_{60}	16.0	X	32.97208	266.38782	88.30770	1.98133	0.1406433	0.26281588	2.4138020	21	12 19.9	19.0
79691 1998 SM_{60}	15.3	X	103.39825	252.60760	51.12167	2.71626	0.2069801	0.26706190	2.3881491	21	—	—
79692 1998 SP_{60}	15.8	X	235.03768	145.53649	157.90068	5.00600	0.1768070	0.28246460	2.3005236	21	1 30.8	19.4
79693 1998 SC_{61}	15.9	X	182.37626	200.89693	163.22420	3.87457	0.1340890	0.28158497	2.3053121	21	2 26.3	19.1
79694 Nanrendong	15.7	X	231.65166	6.64180	4.38098	3.14726	0.2207583	0.24454039	2.5326139	21	4 23.1	20.0
79695 1998 SA_{66}	15.6	X	209.64063	173.84428	133.91834	4.19885	0.2342780	0.27913080	2.3188049	21	1 16.4	19.3
79696 1998 SZ_{66}	15.7	X	144.63984	267.61331	61.86124	6.58505	0.1650055	0.27258685	2.3557694	21	—	—
79697 1998 SP_{68}	16.1	X	181.83996	78.95613	319.48648	13.15720	0.1743233	0.24211526	2.5494976	21	4 9.0	20.5
79698 1998 SE_{71}	15.5	X	185.75112	264.40049	177.79455	5.95207	0.1847807	0.24434829	2.5339411	21	6 14.0	19.8
79699 1998 SH_{73}	15.4	X	50.50210	300.89989	94.18567	2.31884	0.1918113	0.26729471	2.3867621	21	—	—
79700 1998 SX_{73}	16.1	X	137.98408	346.68845	87.70122	3.21312	0.1720340	0.23811472	2.5779741	21	4 20.9	19.9
79701 1998 SM_{75}	15.0	X	302.77757	300.05783	185.97873	14.55529	0.3474276	0.21761568	2.7374273	21	12 12.2	17.3
79702 1998 SW_{76}	15.5	X	52.30869	31.30094	250.65817	4.65262	0.1784445	0.30229976	2.1987584	21	10 18.9	18.1
79703 1998 SY_{76}	15.8	X	255.77725	318.33848	317.06951	7.01612	0.1138493	0.28174708	2.3044278	21	1 19.4	19.0
79704 1998 SF_{90}	15.3	X	153.70329	289.60280	326.56567	5.81752	0.0941905	0.26635736	2.3923584	21	12 24.8	18.8
79705 1998 SE_{93}	16.4	X	339.15520	113.35853	298.67008	0.47619	0.1769844	0.26109145	2.4244186	21	12 15.3	18.3
79706 1998 SW_{97}	16.3	X	241.40572	285.39935	35.54548	1.85838	0.1834142	0.28497556	2.2869902	21	2 28.1	19.8
79707 1998 SJ_{98}	15.8	X	99.31490	129.23531	178.37313	6.31457	0.1249620	0.26592709	2.3949383	21	—	—
79708 1998 SP_{101}	16.1	X	57.64896	18.77504	352.53912	2.39979	0.1839626	0.26685610	2.3893767	21	—	—
79709 1998 SD_{102}	16.4	X	71.66617	169.14978	181.80232	6.11716	0.1559285	0.26680640	2.3896734	21	—	—
79710 1998 SK_{102}	15.5	X	307.17662	12.98188	17.03597	7.00195	0.1312729	0.25508787	2.4623106	21	9 8.2	18.0
79711 1998 SV_{102}	16.1	X	310.99992	49.57478	172.62868	5.98660	0.0765442	0.28015462	2.3131521	21	1 16.5	19.0
79712 1998 SL_{104}	16.2	X	36.91317	166.83107	133.47690	4.89116	0.1684948	0.30167833	2.2017769	21	10 25.6	18.5
79713 1998 SV_{104}	15.4	X	161.45542	182.01752	63.36462	6.21816	0.0717214	0.26562860	2.3967321	21	12 19.9	18.8
79714 1998 SY_{106}	15.0	X	357.62915	78.43067	9.70292	6.54725	0.0856365	0.26763909	2.3847143	21	—	—
79715 1998 SA_{107}	15.6	X	155.96683	117.12399	193.10855	3.15233	0.2388057	0.27379867	2.3488133	21	—	—
79716 1998 SR_{108}	15.7	X	139.02421	98.65920	246.50841	3.27901	0.1710101	0.27410404	2.3470684	21	—	—
79717 1998 SE_{109}	15.5	X	59.11290	2.90636	352.85067	10.46884	0.2434588	0.26578359	2.3958003	21	—	—
79718 1998 SA_{110}	14.7	X	215.70898	340.32309	342.91539	6.94536	0.1337697	0.28089594	2.3090805	21	2 9.1	18.1
79719 1998 SN_{110}	15.5	X	275.77731	212.90574	203.36719	12.49762	0.2132342	0.25273366	2.4775779	21	8 4.8	18.9
79720 1998 SW_{110}	15.3	X	240.60260	262.79184	2.11801	11.10328	0.2179110	0.27852379	2.3221727	21	—	—
79721 1998 SE_{112}	16.0	X	325.74550	189.67960	122.07834	2.32026	0.2717560	0.29489713	2.2354022	21	5 15.0	17.9
79722 1998 SK_{117}	16.1	X	267.10991	338.81836	341.87917	4.64257	0.1663384	0.28708465	2.2757754	21	3 23.8	19.4
79723 1998 SF_{119}	16.0	X	201.20787	125.15643	176.27576	4.00032	0.2266321	0.27806612	2.3247201	21	1 2.0	19.9
79724 1998 SC_{125}	13.4	X	322.72254	308.80590	43.82480	6.47654	0.2541817	0.12331700	3.9974902	21	7 18.6	18.1
79725 1998 SN_{125}	14.8	X	157.58830	71.38980	54.57465	6.63111	0.0609824	0.24801450	2.5089076	21	7 9.9	18.3
79726 1998 SG_{127}	15.6	X	80.02975	221.39482	125.79087	4.94758	0.1506256	0.26713029	2.3877414	21	—	—
79727 1998 SJ_{127}	15.8	X	6.38318	11.26660	59.56696	6.58494	0.0719635	0.26663256	2.3907120	21	—	—
79728 1998 SK_{128}	15.7	X	33.26627	269.21196	147.65865	3.00281	0.1606129	0.26749743	2.3855561	21	—	—
79729 1998 SW_{128}	15.9	X	26.52206	297.72140	113.67356	2.19488	0.1720589	0.26603867	2.3942686	21	—	—
79730 1998 SK_{130}	15.2	X	294.76995	283.73337	10.86164	6.88687	0.1961804	0.28803535	2.2707650	21	3 18.3	18.0
79731 1998 SU_{132}	15.1	X	282.56985	151.74741	234.78725	4.46279	0.1035290	0.25105689	2.4885972	21	7 24.2	18.3
79732 1998 SK_{134}	15.5	X	136.66907	153.09586	189.31836	6.02612	0.1161504	0.27277448	2.3546890	21	—	—
79733 1998 SU_{134}	15.2	X	209.40027	244.84079	26.19889	8.29010	0.2176148	0.27498985	2.3420254	21	—	—
79734 1998 SH_{136}	15.9	X	330.00363	202.91685	103.36514	3.11831	0.2009899	0.29378505	2.2410399	21	5 28.9	17.5
79735 1998 SD_{137}	15.7	X	321.64610	3.16015	55.97700	7.92951	0.0831915	0.25987249	2.4319941	21	11 18.0	18.2
79736 1998 SL_{137}	15.6	X	158.07719	17.89866	51.38557	7.78713	0.2741033	0.23954636	2.5676924	21	5 8.6	20.0
79737 1998 SD_{138}	16.1	X	324.38132	278.45279	31.73601	2.68617	0.1862312	0.29299834	2.2450496	21	5 25.3	18.2
79738 1998 ST_{138}	15.4	X	42.34896	358.67648	7.92483	7.62576	0.1386028	0.26382350	2.4076521	21	—	—
79739 1998 SP_{139}	15.4	X	349.52186	124.21451	289.06926	4.75324	0.1024863	0.26161889	2.4211590	21	12 28.5	18.0
79740 1998 SQ_{140}	15.8	X	290.59706	310.55218	357.93114	3.87041	0.2208402	0.28897926	2.2658175	21	3 27.3	18.6
79741 1998 SG_{141}	15.8	X	56.09666	356.12839	14.44844	5.26875	0.2551502	0.26603366	2.3942987	21	—	—
79742 1998 SN_{142}	15.0	X	343.63978	272.02693	112.28210	5.23448	0.0886677	0.21496584	2.7598771	21	10 30.3	18.3
79743 1998 SS_{142}	15.8	X	129.31960	290.14763	46.27440	5.46512	0.1664084	0.27164712	2.3611993	21	—	—
79744 1998 SB_{145}	16.1	X	62.37059	201.94777	161.24457	3.49682	0.1923716	0.26597774	2.3946342	21	—	—
79745 1998 SY_{147}	15.8	X	105.41180	176.17244	191.78300	6.33476	0.1427534	0.27103431	2.3647571	21	—	—
79746 1998 SN_{150}	16.5	X	238.73654	352.71803	311.18853	0.97188	0.1458479	0.28267823	2.2993644	21	2 5.1	19.7
79747 1998 SR_{156}	16.0	X	65.23625	163.69455	268.91613	1.65022	0.2057549	0.22924033	2.6440847	21	1 10.8	18.4
79748 1998 SG_{157}	16.3	X	64.11975	350.53167	35.48687	2.18639	0.1357267	0.26860538	2.3789916	21	—	—
79749 1998 SG_{160}	15.8	X	38.49364	243.04563	65.70159	6.35215	0.0713745	0.25751642	2.4468054	21	10 17.1	18.7
79750 1998 SU_{164}	15.4	X	286.89644	325.00766	94.31152	6.75487	0.1758591	0.25520066	2.4615851	21	9 9.9	18.2
79751 1998 SM_{166}	15.6	X	217.78205	213.11908	74.46859	5.28393	0.1726345	0.27713751	2.3299102	21	—	—
79752 1998 SL_{168}	15.8	X	353.97426	247.63890	234.00053	6.42039	0.0431820	0.27433098	2.3457739	21	—	—
79753 1998 TK_{6}	15.2	X	24.65502	287.69164	197.88452	26.95926	0.2174694	0.23087592	2.6315823	21	—	—
79754 1998 TG_{7}	16.1	X	280.90580	40.49484	18.74625	2.55865	0.1598849	0.25519108	2.4616467	21	8 31.1	19.0
79755 1998 TE_{8}	15.9	X	262.86735	89.20579	216.62652	7.78425	0.2415941	0.28453746	2.2893371	21	2 21.0	19.8
79756 1998 TA_{14}	15.4	X	231.27132	270.68126	33.69286	7.44278	0.1373753	0.27960409	2.3161874	21	2 2.1	19.0
79757 1998 TR_{18}	15.8	X	151.97392	57.11827	194.37330	1.09230	0.1425561	0.26499659	2.4005414	21	12 15.2	19.4
79758 1998 TB_{21}	16.3	X	88.19240	76.70431	14.97622	3.07550	0.1261521	0.23351482	2.6117188	21	3 6.5	19.5
79759 1998 TF_{23}	15.7	X	200.68916	180.06276	24.64699	2.77742	0.1324520	0.26389768	2.4072009	21	12 5.7	19.1
79760 1998 TG_{25}	16.5	X	219.08768	133.64468	168.14713	0.72429	0.2189603	0.28003895	2.3137890	21	1 16.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79761 1998 TH_{26}	16.3	X	179.24940	205.65340	230.71096	2.99705	0.1568467	0.24231081	2.5481258	21	5 31.2	20.3
79762 1998 TA_{27}	15.8	X	350.42115	16.11493	34.40206	7.27919	0.1210717	0.26049899	2.4280932	21	12 28.1	18.4
79763 1998 TO_{34}	15.1	X	161.87196	286.20630	173.01389	4.97467	0.1459370	0.24286733	2.5442317	21	6 12.8	19.1
79764 1998 TY_{36}	15.7	X	234.59570	286.45857	50.73010	2.52909	0.1962876	0.24075252	2.5591092	21	3 18.5	19.8
79765 1998 TO_{37}	15.0	X	88.93453	333.38415	43.29018	8.31150	0.2057380	0.27000584	2.3707583	21	—	—
79766 1998 UQ_{4}	16.1	X	82.61482	343.00524	351.43858	2.22812	0.2194097	0.26922719	2.3753272	21	—	—
79767 1998 UZ_{4}	15.6	X	226.20134	35.21877	78.12062	3.63406	0.1388361	0.25214887	2.4814072	21	9 6.9	19.1
79768 1998 UO_{7}	15.4	X	190.29258	20.92235	43.26277	4.64398	0.1727008	0.24213370	2.5493681	21	5 25.4	19.6
79769 1998 UH_{8}	15.4	X	150.96878	308.66265	44.43192	10.81844	0.2489227	0.27464699	2.3439742	21	1 27.3	19.1
79770 1998 UN_{9}	16.4	X	139.07177	217.71335	204.96096	3.01367	0.1494230	0.23875648	2.5733524	21	4 3.1	20.2
79771 1998 UK_{11}	14.9	X	319.16283	182.68907	204.38380	5.94862	0.1394949	0.25469190	2.4648621	21	9 21.6	17.4
79772 1998 UT_{12}	15.6	X	168.70330	108.42508	208.68213	3.10028	0.1413560	0.27346583	2.3507187	21	—	—
79773 1998 UW_{12}	15.9	X	133.60175	124.78512	194.20949	1.84250	0.2222492	0.27041984	2.3683380	21	—	—
79774 1998 UL_{15}	16.1	X	175.03472	295.04818	137.89342	4.27453	0.2289877	0.24085663	2.5583717	21	5 25.5	20.6
79775 1998 UH_{19}	15.6	X	127.91808	250.10013	203.69871	26.11179	0.2294302	0.23829234	2.5766929	21	5 10.9	19.8
79776 1998 UO_{19}	15.2	X	178.88537	221.48331	223.23263	15.28226	0.2144010	0.24313603	2.5423568	21	6 10.8	19.7
79777 1998 UR_{19}	14.9	X	124.46002	330.03784	40.73454	14.59198	0.2130491	0.27428671	2.3460263	21	1 15.1	18.1
79778 1998 UC_{21}	15.8	X	156.99607	192.11037	220.89255	3.89750	0.2368496	0.23697184	2.5862563	21	4 15.3	20.2
79779 1998 US_{22}	16.1	X	161.08243	28.63554	44.94451	3.27736	0.2121308	0.24005867	2.5640380	21	5 12.9	20.4
79780 1998 US_{37}	15.3	X	239.97626	216.18987	49.01273	7.03160	0.1168898	0.27600166	2.3362981	21	—	—
79781 1998 UF_{40}	15.3	X	231.12803	333.51171	349.14425	4.11585	0.2360658	0.28302253	2.2974992	21	2 20.2	19.1
79782 1998 UN_{40}	15.4	X	232.61969	16.39192	8.29377	8.87791	0.2627976	0.24508012	2.5288942	21	5 6.8	19.8
79783 1998 UT_{40}	16.6	X	247.88785	14.20675	312.64446	0.92575	0.2466836	0.28560350	2.2836368	21	3 8.9	20.2
79784 1998 UM_{42}	16.0	X	342.17109	205.99354	187.23749	0.87233	0.1815936	0.25851322	2.4405116	21	11 22.7	17.8
79785 1998 UL_{43}	15.2	X	146.29056	153.29811	269.80300	4.52022	0.2192240	0.23716277	2.5848680	21	4 15.8	19.5
79786 1998 UY_{44}	15.8	X	7.45996	329.32016	56.12585	6.91434	0.1180660	0.26089287	2.4256487	21	12 20.1	18.5
79787 1998 UT_{48}	16.4	X	140.82716	240.00689	81.25101	7.18071	0.1835926	0.27172460	2.3607504	21	—	—
79788 1998 UK_{49}	15.6	X	170.25188	13.28058	39.18923	8.05173	0.1854775	0.23846023	2.5754833	21	4 24.1	19.8
79789 1998 VL_{1}	14.1	X	128.44991	210.03461	227.13052	27.17213	0.2906258	0.23523636	2.5989609	21	4 24.8	18.5
79790 1998 VF_{5}	15.1	X	6.57070	334.97746	48.73199	10.04614	0.2462630	0.25977368	2.4326107	21	—	—
79791 1998 VK_{5}	15.2	X	142.54443	50.14979	349.71484	3.63162	0.2139719	0.23429937	2.6058853	21	3 16.1	19.3
79792 1998 VQ_{5}	15.3	X	209.46829	49.25967	15.46453	6.03864	0.2050403	0.24397678	2.5365128	21	6 11.3	19.6
79793 1998 VR_{5}	15.4	X	153.19284	351.02987	357.73136	4.84351	0.2808333	0.23133831	2.6280745	21	1 31.1	19.7
79794 1998 VN_{6}	15.5	X	97.50860	55.28842	29.48588	11.46290	0.2609120	0.23198277	2.6232050	21	4 2.3	19.0
79795 1998 VW_{6}	14.7	X	103.68331	139.61464	242.34197	11.92649	0.1125803	0.22572038	2.6715022	21	—	—
79796 1998 VX_{6}	14.0	X	287.82681	95.62138	33.00408	29.11195	0.3776446	0.21440692	2.7646714	21	10 31.4	17.1
79797 1998 VM_{9}	16.1	X	52.30956	206.86761	174.29014	1.07627	0.1937104	0.26604440	2.3942342	21	—	—
79798 1998 VJ_{10}	15.5	X	82.81566	210.40403	92.90578	3.51634	0.1782783	0.26231903	2.4168490	21	12 15.7	19.1
79799 1998 VU_{10}	15.6	X	255.95804	148.98375	212.36684	3.66223	0.1248032	0.24517110	2.5282685	21	5 13.8	19.3
79800 1998 VP_{11}	15.2	X	343.42108	346.24059	68.27190	6.42211	0.1052069	0.26075903	2.4264786	21	12 19.7	17.8
79801 1998 VJ_{12}	15.7	X	125.78073	261.88374	81.46975	5.21488	0.2530837	0.27210654	2.3585408	21	—	—
79802 1998 VO_{12}	15.9	X	31.55475	283.54184	131.90341	2.99506	0.1942655	0.22276246	2.6950990	21	—	—
79803 1998 VG_{14}	15.4	X	296.60953	1.70740	284.87368	5.16178	0.1682201	0.28518385	2.2858765	21	3 10.0	18.4
79804 1998 VY_{17}	15.5	X	210.22577	56.19865	321.75958	2.22451	0.2659786	0.24152769	2.5536308	21	4 13.3	20.1
79805 1998 VQ_{20}	15.1	X	298.49481	356.32408	60.23386	5.64919	0.1744576	0.25442524	2.4665841	21	9 26.4	17.5
79806 1998 VQ_{21}	15.1	X	73.09177	72.77325	249.47809	7.07135	0.1513149	0.26198427	2.4189074	21	12 26.4	18.6
79807 1998 VX_{21}	15.6	X	175.18973	98.34682	345.99617	4.69956	0.1564090	0.24217822	2.5490557	21	6 5.8	19.6
79808 1998 VG_{23}	15.8	X	264.86767	290.35269	40.90959	2.42780	0.1755740	0.24289119	2.5440650	21	4 9.1	19.5
79809 1998 VA_{29}	15.7	X	102.39052	334.74746	14.40460	2.66036	0.2391800	0.26860888	2.3789710	21	—	—
79810 1998 VL_{33}	15.3	X	35.21702	59.44674	57.12913	14.77487	0.2309774	0.22672637	2.6635940	21	1 9.9	17.7
79811 1998 VV_{35}	15.2	X	114.71937	119.91795	320.10044	1.19194	0.0864106	0.23279993	2.6170629	21	3 20.0	18.6
79812 1998 VG_{37}	15.8	X	99.07203	175.18764	256.43395	5.45875	0.3243623	0.23159919	2.6261006	21	3 22.2	19.5
79813 1998 VJ_{37}	15.9	X	144.38940	224.62014	154.77822	2.18128	0.1428648	0.23306870	2.6150505	21	2 13.7	19.8
79814 1998 VU_{37}	15.7	X	120.62291	354.04083	12.05033	5.51515	0.2074448	0.27234965	2.3571371	21	1 1.1	18.5
79815 1998 VG_{38}	16.2	X	90.87227	65.66640	281.34687	1.67234	0.1935934	0.26701218	2.3884455	21	—	—
79816 1998 VY_{41}	16.3	X	325.50448	301.23908	115.11370	3.26355	0.2318178	0.21016723	2.8017285	21	11 6.0	18.6
79817 1998 VA_{44}	15.1	X	341.13051	161.67585	110.57348	2.68117	0.1346489	0.23498715	2.6007981	21	5 13.1	17.9
79818 1998 VR_{45}	15.9	X	120.80705	262.79829	217.15729	3.24553	0.2445781	0.23764720	2.5813541	21	6 7.3	19.9
79819 1998 VE_{46}	15.3	X	70.55411	1.92239	327.53674	9.54085	0.1497039	0.26290617	2.4132494	21	—	—
79820 1998 VH_{49}	15.7	X	160.85502	13.41631	19.53980	10.04173	0.2099972	0.23650219	2.5896790	21	3 25.7	20.0
79821 1998 VK_{49}	15.8	X	250.92492	298.05075	38.87964	2.55126	0.1823168	0.28589989	2.2820582	21	3 29.1	19.1
79822 1998 VC_{52}	15.8	X	17.24979	246.11146	174.58473	9.33081	0.2258653	0.22045081	2.7139067	21	—	—
79823 1998 VK_{54}	14.5	X	223.86038	104.05232	281.96474	12.16006	0.1843656	0.24273200	2.5451772	21	5 4.5	18.9
79824 1998 VT_{55}	15.9	X	100.94419	354.64849	58.00635	2.77653	0.0890213	0.23025350	2.6363226	21	1 27.4	19.1
79825 1998 WT_{1}	14.9	X	23.44688	140.05613	252.89553	12.64231	0.1985481	0.26088308	2.4257094	21	—	—
79826 Finardi	15.8	X	132.74424	343.24886	119.99621	3.65892	0.2301661	0.23787847	2.5796807	21	5 27.4	19.9
79827 1998 WU_{3}	14.4	X	9.72261	308.82684	52.89683	7.06136	0.1836829	0.25755782	2.4465432	21	11 29.4	16.9
79828 1998 WC_{5}	15.3	X	147.64114	305.86517	129.82756	13.91020	0.1456011	0.23771768	2.5808438	21	5 4.5	19.5
79829 1998 WT_{5}	15.1	X	295.40055	28.72424	358.80776	7.44587	0.1431931	0.25202273	2.4822351	21	8 12.5	18.0
79830 1998 WY_{10}	15.2	X	328.89022	298.48345	74.23304	5.76439	0.1069333	0.25316677	2.4747514	21	9 25.7	17.8
79831 1998 WZ_{10}	15.7	X	208.86024	349.75752	83.59030	4.68120	0.1960919	0.24451217	2.5328087	21	6 22.7	19.9
79832 1998 WB_{11}	15.5	X	122.81133	30.91901	86.84268	4.84275	0.2049663	0.23788117	2.5796612	21	6 2.5	19.5
79833 1998 WE_{11}	14.9	X	287.43356	341.39925	98.96225	4.85162	0.0736162	0.21168893	2.7882858	21	10 18.7	18.5
79834 1998 WN_{17}	15.5	X	82.54334	32.42274	292.74136	1.46403	0.1866033	0.26254972	2.4154331	21	—	—
79835 1998 WH_{19}	15.7	X	65.39652	232.09024	224.61738	8.60421	0.0992760	0.22957645	2.6415033	21	1 30.1	19.0
79836 1998 WX_{19}	15.1	X	113.00625	196.75674	187.02328	13.99475	0.2444654	0.22822336	2.6519337	21	1 26.2	18.9
79837 1998 WB_{21}	15.8	X	86.89975	324.80861	24.55148	3.38222	0.2192540	0.26643909	2.3918692	21	—	—
79838 1998 WO_{27}	15.5	X	214.31427	103.47219	229.86437	3.87269	0.1698413	0.28067608	2.3102862	21	2 17.6	19.1
79839 1998 WX_{32}	15.8	X	70.56669	336.34063	26.91956	4.85904	0.1635270	0.26491189	2.4010530	21	—	—
79840 1998 WR_{33}	15.3	X	110.30334	159.47638	225.53922	13.89896	0.1126950	0.22785379	2.6548004	21	1 5.0	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79841 1998 WP_{36}	16.2	X	118.13961	307.29699	75.84000	1.14382	0.1653591	0.23004765	2.6378951	21	1 23.1	19.7
79842 1998 WG_{42}	16.0	X	119.47332	228.25080	55.70173	7.00124	0.1046226	0.26129424	2.4231641	21	12 22.7	19.5
79843 1998 WU_{42}	15.1	X	158.49845	81.88162	276.33671	7.21963	0.1654759	0.23109942	2.6298853	21	2 2.9	19.3
79844 1998 WF_{43}	14.5	X	208.57857	342.03838	48.62260	15.07854	0.1838248	0.23812729	2.5778834	21	5 1.4	18.7
79845 1998 XR_{2}	15.4	X	152.65541	314.43261	328.93398	5.79460	0.1118555	0.26395121	2.4068754	21	—	—
79846 1998 XS_{2}	14.3	X	254.91662	350.57451	38.25842	15.71323	0.1211411	0.24382591	2.5375590	21	6 16.7	18.1
79847 1998 XY_{2}	14.7	X	27.38796	94.22988	50.08841	13.95810	0.1128134	0.22761490	2.6566577	21	2 11.2	18.0
79848 1998 XO_{13}	15.9	X	177.44258	272.34143	80.99144	2.88586	0.0380105	0.23213704	2.6220427	21	2 8.9	19.5
79849 1998 XJ_{14}	15.5	X	144.67958	200.40108	207.68324	3.56578	0.1755833	0.23424024	2.6063238	21	3 24.2	19.5
79850 1998 XD_{17}	15.9	X	88.58112	255.74602	104.50780	5.87558	0.1785570	0.22280798	2.6947318	21	—	—
79851 1998 XQ_{22}	15.4	X	175.31407	237.56844	231.78900	7.42807	0.2004187	0.24386511	2.5372871	21	7 7.9	19.7
79852 1998 XJ_{24}	15.8	X	126.06059	130.60957	291.30311	1.35838	0.1140282	0.22936678	2.6431129	21	3 14.8	19.5
79853 1998 XJ_{29}	15.4	X	166.28692	10.29547	331.50145	6.22942	0.2282319	0.27456263	2.3444542	21	1 23.4	19.1
79854 1998 XJ_{31}	14.8	X	104.78218	114.36683	284.74851	3.96390	0.2237474	0.22860456	2.6489847	21	2 3.2	18.2
79855 1998 XY_{32}	14.2	X	41.51360	254.93921	287.83457	14.76750	0.1270237	0.23464093	2.6033558	21	4 17.5	17.4
79856 1998 XY_{48}	14.6	X	97.88160	304.51188	94.26741	13.74934	0.1760405	0.22531236	2.6747265	21	1 19.0	17.9
79857 1998 XD_{53}	15.8	X	22.67615	125.18491	301.41380	2.60584	0.2495769	0.21903178	2.7256157	21	—	—
79858 1998 XN_{54}	15.3	X	11.32752	245.96392	108.74514	7.25372	0.1508178	0.25552509	2.4595011	21	11 19.4	18.0
79859 1998 XN_{58}	15.6	X	174.37769	313.39468	112.06678	4.71477	0.2406348	0.23843929	2.5756341	21	5 16.4	20.0
79860 1998 XZ_{83}	15.3	X	25.99060	264.21394	170.85637	10.98776	0.1928328	0.22142742	2.7059210	21	—	—
79861 1998 XX_{87}	15.4	X	166.41376	241.41344	189.37467	3.51665	0.2172207	0.23754480	2.5820959	21	5 15.2	19.8
79862 1998 XR_{89}	14.0	X	179.02830	125.09038	250.14444	11.83061	0.1726911	0.23342134	2.6124161	21	3 10.9	18.5
79863 1998 XN_{94}	15.4	X	295.61700	278.56860	144.47021	11.54518	0.1926621	0.25154632	2.4853682	21	9 27.7	18.0
79864 Pirituba	15.2	X	27.78268	76.89454	122.22696	3.67754	0.1034517	0.23034501	2.6356244	21	4 24.7	18.1
79865 1998 XX_{98}	15.2	X	189.27055	300.04710	58.87336	24.20458	0.2671372	0.28161101	2.3051700	21	3 19.0	19.8
79866 1998 YY	14.3	X	269.99484	247.08173	97.70859	22.78176	0.0362949	0.23768221	2.5811006	21	5 27.5	18.0
79867 1998 YO_{1}	15.4	X	308.08293	334.71383	69.09284	5.88018	0.1683439	0.25342602	2.4730634	21	9 26.9	17.8
79868 1998 YA_{4}	14.7	X	138.46996	285.23584	115.84679	5.41116	0.2173852	0.23047051	2.6346674	21	3 17.0	18.8
79869 1998 YG_{5}	15.0	X	311.50832	341.48509	116.92763	10.32737	0.1208973	0.21043079	2.7993886	21	12 12.6	18.2
79870 1998 YO_{6}	15.1	X	151.70633	349.93119	90.22856	10.95422	0.1729543	0.23765458	2.5813007	21	5 13.7	19.3
79871 1998 YT_{7}	13.9	X	155.38280	88.83611	11.79501	22.09002	0.0699211	0.23657332	2.5891599	21	5 26.7	18.1
79872 1998 YU_{7}	15.1	X	155.94256	24.86995	283.96206	8.46911	0.1384230	0.21847477	2.7302464	21	—	—
79873 1998 YJ_{10}	14.4	X	116.72146	96.02759	289.80639	11.81281	0.1973456	0.22527970	2.6749849	21	1 28.2	18.0
79874 1998 YW_{15}	14.7	X	79.64222	329.86695	286.55663	7.00069	0.2158226	0.19934844	2.9022010	21	10 8.4	19.2
79875 1998 YH_{17}	15.3	X	262.22279	328.96536	291.65844	5.17666	0.1712972	0.22244561	2.6976575	21	1 12.9	19.6
79876 1998 YO_{17}	15.7	X	55.63270	198.56500	288.71359	1.28962	0.0102581	0.22655325	2.6649507	21	2 21.5	19.2
79877 1998 YP_{17}	14.9	X	218.17757	61.23087	293.11666	13.62141	0.0854313	0.23139071	2.6276777	21	3 20.2	19.1
79878 1998 YU_{18}	15.2	X	171.29678	308.49246	99.00950	5.18832	0.1866718	0.23772415	2.5807970	21	4 20.9	19.4
79879 1998 YP_{19}	16.2	X	13.90325	94.29239	37.75029	1.20028	0.0848886	0.22258524	2.6965293	21	—	—
79880 1998 YU_{20}	15.3	X	40.64586	103.58798	310.27498	6.38756	0.0617559	0.21721983	2.7407519	21	—	—
79881 1998 YQ_{30}	16.0	X	80.75887	288.97063	155.15597	4.86060	0.2838206	0.22912661	2.6449595	21	3 10.9	18.8
79882 1998 YB_{31}	14.5	X	24.46507	98.03399	59.24505	13.70356	0.1244362	0.22597108	2.6695259	21	2 25.3	17.7
79883 1999 AL_{3}	14.4	X	179.95860	349.29719	78.43618	28.64854	0.2527747	0.24043808	2.5613399	21	5 26.6	19.0
79884 1999 AP_{6}	15.0	X	57.29240	114.10975	10.11591	11.48274	0.1375233	0.22813073	2.6526514	21	3 6.5	18.0
79885 1999 AE_{10}	14.9	X	36.40701	12.70047	180.87730	4.92593	0.1198402	0.23090677	2.6313479	21	5 2.7	17.7
79886 1999 AL_{17}	15.3	X	156.65368	326.05317	287.61736	2.70087	0.0499375	0.20941735	2.8084128	21	12 15.6	19.3
79887 1999 AN_{33}	15.0	X	297.51527	98.03362	131.36179	15.66721	0.1030331	0.22269682	2.6956285	21	1 18.2	18.7
79888 1999 AQ_{33}	14.7	X	103.55802	129.94019	305.08861	10.71395	0.1697619	0.22729053	2.6591846	21	3 7.9	18.3
79889 Maloka	15.4	X	17.33666	132.24122	281.60821	3.74104	0.1485580	0.21408376	2.7674529	21	—	—
79890 1999 AL_{38}	15.2	X	64.77092	71.23422	15.86580	13.39383	0.1267497	0.22461094	2.6802920	21	1 28.8	18.5
79891 1999 BS_{1}	15.2	X	107.64328	188.45837	286.21202	10.79096	0.1281724	0.23220018	2.6215673	21	4 28.5	19.0
79892 1999 BQ_{2}	14.2	X	356.93222	46.04774	115.59454	19.03965	0.1777538	0.17684194	3.1434932	21	1 14.9	18.0
79893 1999 BM_{4}	15.0	X	4.62322	125.36944	319.80402	8.22175	0.1382547	0.21460095	2.7630047	21	—	—
79894 1999 BP_{4}	15.4	X	70.61328	5.81045	144.96249	0.83052	0.1741922	0.18474789	3.0531612	21	5 11.4	19.3
79895 1999 BF_{5}	14.5	X	60.77759	59.97467	100.39744	9.29294	0.1138521	0.22966557	2.6408199	21	4 29.7	17.7
79896 Billhaley	15.2	X	7.60954	228.77065	277.82602	11.88941	0.1219355	0.22470827	2.6795180	21	1 4.9	18.3
79897 1999 BY_{5}	15.2	X	55.45443	194.41583	259.77067	1.44792	0.2017631	0.22313428	2.6921041	21	1 22.9	17.7
79898 1999 BD_{6}	14.6	X	69.15860	30.90529	164.13171	13.24018	0.0107767	0.18775102	3.0205163	21	6 13.3	19.1
79899 1999 BF_{6}	14.4	X	275.67937	318.69446	156.26167	2.83333	0.0032878	0.20339073	2.8636193	21	11 21.8	18.4
79900 Coreglia	15.5	X	345.92349	52.42766	112.53690	3.70506	0.1711854	0.22095064	2.7098123	21	—	—
79901 1999 BK_{9}	14.4	X	178.00984	110.41874	291.18685	7.79589	0.3314642	0.23480360	2.6021533	21	4 17.9	19.4
79902 1999 BY_{10}	15.3	X	170.73803	122.52604	321.99168	5.56516	0.1447387	0.19096504	2.9865295	21	6 2.9	20.2
79903 1999 BX_{11}	15.2	X	204.12849	167.88217	357.64446	0.94078	0.1710200	0.20234709	2.8734572	21	10 11.1	19.9
79904 1999 BO_{13}	13.9	X	345.69935	85.50608	160.86680	11.49502	0.1181584	0.18233605	3.0800258	21	4 24.9	17.8
79905 1999 BH_{20}	14.5	X	51.73495	311.13759	39.26316	13.43082	0.1484711	0.21323517	2.7747903	21	12 28.2	18.6
79906 1999 BJ_{20}	14.8	X	77.75703	105.87313	343.46506	14.46143	0.0666564	0.22685882	2.6625572	21	2 11.8	18.2
79907 1999 BX_{23}	14.3	X	4.49531	193.88583	258.72629	13.75241	0.1855485	0.21834058	2.7313650	21	—	—
79908 1999 BP_{27}	15.2	X	104.83684	42.18439	325.27955	5.59183	0.0522638	0.21698099	2.7427628	21	—	—
79909 1999 BY_{29}	15.0	X	35.77409	86.48394	131.10025	9.74326	0.0480379	0.18869976	3.0103834	21	6 2.2	19.1
79910 1999 BE_{30}	15.4	X	294.30234	175.91073	116.32933	14.74801	0.2236798	0.23175492	2.6249240	21	3 23.2	19.4
79911 1999 CK	14.5	X	61.69562	139.57122	352.60763	13.00095	0.0925773	0.22688237	2.6623729	21	3 15.9	17.7
79912 Terrell	14.9	X	273.75478	327.00452	307.65128	10.69097	0.1594564	0.22518934	2.6757005	21	2 8.9	19.0
79913 1999 CE_{3}	15.8	X	288.15869	204.18231	312.19548	7.79646	0.2113998	0.21239373	2.7821140	21	—	—
79914 1999 CK_{3}	14.6	X	13.42105	182.57392	265.26807	7.60380	0.1033549	0.21514876	2.7583126	21	—	—
79915 1999 CR_{17}	14.8	X	17.97179	194.53354	359.86269	14.31252	0.1138291	0.22964935	2.6409442	21	3 27.9	17.5
79916 1999 CE_{18}	15.0	X	11.63610	98.66115	39.72319	10.96120	0.1167249	0.22256128	2.6967228	21	1 2.7	18.3
79917 1999 CU_{22}	14.7	X	145.85470	62.19616	335.50170	11.48606	0.1449081	0.22812863	2.6526677	21	3 9.1	18.6
79918 1999 CZ_{24}	14.7	X	71.91866	36.87820	94.63128	14.06673	0.1294511	0.22844779	2.6501965	21	4 13.6	18.2
79919 1999 CF_{28}	15.4	X	142.93032	8.75361	105.39755	12.16567	0.1912004	0.19155403	2.9804043	21	6 17.4	20.3
79920 1999 CU_{28}	14.3	X	22.51125	137.77111	333.65831	8.14821	0.2362611	0.22049117	2.7135756	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
79921 1999 CK_{31}	15.4	X	7.75187	15.42915	84.70330	4.66925	0.1956245	0.21775700	2.7362428	21	—	—
79922 1999 CP_{34}	14.9	X	235.60232	110.13329	130.93434	9.03318	0.0955317	0.21526323	2.7573347	21	—	—
79923 1999 CA_{36}	14.8	X	293.06231	78.92282	7.51858	13.45183	0.1349886	0.20670063	2.8329670	21	10 20.5	18.4
79924 1999 CS_{36}	15.0	X	341.32233	1.05678	107.49602	10.37966	0.1089647	0.21440026	2.7647286	21	—	—
79925 1999 CG_{42}	14.6	X	143.45806	31.89314	351.15874	8.40240	0.3699099	0.22712636	2.6604658	21	3 10.7	19.2
79926 1999 CP_{42}	14.7	X	189.51237	293.41878	332.29640	10.29941	0.2164780	0.21090331	2.7952058	21	—	—
79927 1999 CX_{46}	14.0	X	339.06457	303.36219	343.30671	12.66562	0.1367399	0.18858881	3.0115640	21	5 29.6	17.8
79928 1999 CD_{49}	15.2	X	332.42629	73.99024	86.83068	4.73214	0.1548299	0.21767200	2.7369551	21	—	—
79929 1999 CB_{51}	15.0	X	42.94529	81.68133	126.44494	2.86121	0.1642854	0.18580369	3.0415841	21	6 11.8	18.6
79930 1999 CL_{57}	14.9	X	1.91567	288.13379	152.09849	8.06464	0.1886048	0.21339632	2.7733931	21	—	—
79931 1999 CG_{63}	15.0	X	63.79486	155.91375	276.01090	10.82560	0.1669886	0.22173818	2.7033922	21	1 5.1	17.8
79932 1999 CA_{67}	15.3	X	303.46307	300.27798	192.50991	9.28715	0.2494390	0.21256382	2.7806297	21	—	—
79933 1999 CW_{70}	14.8	X	48.66951	321.65001	157.40438	14.02631	0.1252175	0.22365974	2.6878860	21	2 7.1	17.7
79934 1999 CM_{71}	14.8	X	262.33103	16.91289	159.79768	8.82060	0.0679675	0.21155571	2.7894562	21	—	—
79935 1999 CF_{72}	14.3	X	282.59478	37.04736	296.73195	12.51277	0.1749309	0.23379015	2.6096679	21	4 27.4	18.2
79936 1999 CO_{72}	15.0	X	290.44053	307.04097	197.76558	9.70334	0.0997244	0.21146560	2.7902486	21	—	—
79937 1999 CD_{73}	14.1	X	187.84263	83.69122	299.90661	14.14117	0.1498022	0.22960603	2.6412764	21	3 26.5	18.7
79938 1999 CB_{80}	14.7	X	350.09506	237.73626	184.83029	11.05374	0.2270827	0.21105973	2.7938245	21	—	—
79939 1999 CP_{82}	15.2	X	27.17327	120.34665	5.22910	8.86076	0.2291186	0.22332779	2.6905488	21	1 5.9	17.7
79940 1999 CJ_{83}	15.3	X	77.19734	132.12532	334.57420	16.83701	0.1753729	0.22797076	2.6538923	21	3 12.9	18.5
79941 1999 CC_{84}	14.9	X	92.12327	7.34740	83.85618	15.29663	0.2300012	0.22856991	2.6492524	21	4 5.9	18.6
79942 1999 CM_{85}	15.1	X	14.23835	101.30806	42.01638	7.32174	0.1751375	0.22302423	2.6929897	21	1 8.4	17.9
79943 1999 CO_{85}	14.8	X	341.04629	10.22864	63.36565	10.36151	0.2605175	0.21368409	2.7709026	21	—	—
79944 1999 CK_{86}	15.3	X	31.04790	350.25383	112.11463	4.16846	0.1459312	0.22098924	2.7094968	21	—	—
79945 1999 CQ_{89}	14.4	X	329.60574	100.16665	119.50632	11.41964	0.0466565	0.18173034	3.0868659	21	3 6.4	18.7
79946 1999 CE_{90}	15.2	X	9.79787	24.92373	52.58234	2.19570	0.2112007	0.21641050	2.7475810	21	—	—
79947 1999 CG_{90}	14.1	X	260.38547	351.59675	320.91253	14.42813	0.1403333	0.22889168	2.6467691	21	3 11.1	18.3
79948 1999 CR_{91}	15.1	X	257.24676	295.00970	324.44215	17.38380	0.1211477	0.22028577	2.7152621	21	1 14.1	19.5
79949 1999 CF_{92}	14.9	X	282.60138	196.62697	356.63709	8.97175	0.0943641	0.21628900	2.7486098	21	—	—
79950 1999 CP_{92}	14.6	X	349.33800	207.70741	0.09312	13.92039	0.1265745	0.22573477	2.6713887	21	3 1.9	17.7
79951 1999 CY_{93}	15.1	X	332.65812	70.62886	100.89428	6.19046	0.0985363	0.21958267	2.7210551	21	—	—
79952 1999 CZ_{95}	15.2	X	332.31405	140.47533	350.22349	10.68814	0.1622521	0.21547193	2.7555539	21	—	—
79953 1999 CG_{97}	15.0	X	343.04539	1.76601	128.49206	9.25562	0.0833100	0.21600924	2.7509826	21	—	—
79954 1999 CX_{99}	15.5	X	12.26874	64.19698	46.48463	8.54012	0.1099692	0.21752648	2.7381756	21	—	—
79955 1999 CR_{104}	14.8	X	22.05420	315.58034	152.87746	13.68233	0.0346878	0.21912876	2.7248115	21	—	—
79956 1999 CW_{105}	14.9	X	47.71839	129.40236	299.69518	8.48062	0.1570199	0.21945781	2.7220871	21	—	—
79957 1999 CS_{109}	15.1	X	303.62989	168.88922	290.66982	7.08179	0.1877308	0.20967211	2.8061375	21	11 21.6	18.2
79958 1999 CO_{112}	14.2	X	82.37451	328.06626	273.22654	9.24015	0.0603154	0.19628262	2.9323434	21	8 31.6	18.5
79959 1999 CO_{113}	14.6	X	23.97996	267.75516	201.44877	12.91334	0.1772356	0.21941607	2.7224323	21	—	—
79960 1999 CD_{115}	15.3	X	59.88542	213.80464	218.31111	6.26817	0.0973575	0.21907059	2.7252938	21	—	—
79961 1999 CU_{116}	14.9	X	93.29735	167.97844	250.75648	10.89537	0.1702375	0.22314138	2.6920470	21	2 1.9	18.4
79962 1999 CR_{119}	14.4	X	75.96740	69.15610	17.12785	14.66810	0.2846195	0.18210398	3.0826420	21	3 18.1	18.3
79963 1999 CV_{119}	15.0	X	27.46689	118.37790	75.23992	13.87733	0.1361220	0.22868612	2.6483549	21	4 22.6	18.0
79964 1999 CN_{120}	15.2	X	59.05815	123.36858	40.05319	14.32724	0.1071974	0.23115603	2.6294560	21	4 26.5	18.0
79965 1999 CD_{121}	14.8	X	163.07831	13.85815	44.94706	13.63038	0.1341013	0.23313078	2.6145862	21	4 24.2	18.9
79966 1999 CM_{124}	14.4	X	145.20928	76.92306	49.26399	16.03130	0.0440910	0.23626840	2.5913871	21	6 21.5	18.2
79967 1999 CY_{124}	14.9	X	269.83954	177.40850	63.01228	18.24718	0.1565831	0.21890483	2.7266694	21	—	—
79968 1999 CO_{125}	14.6	X	248.80693	105.69674	32.16735	13.23009	0.0796055	0.20602012	2.8392020	21	11 4.2	18.4
79969 1999 CP_{133}	7.4	X	62.11870	156.30302	334.41233	3.18683	0.0800997	0.00480168	34.7969176	21	4 9.8	22.7
79970 1999 CJ_{135}	15.7	X	321.21813	118.73390	200.14018	1.28176	0.0995829	0.19006910	2.9959073	21	6 20.4	19.4
79971 1999 CP_{135}	15.2	X	38.27048	12.25444	229.13543	0.56063	0.0254841	0.18998612	2.9967796	21	7 3.1	19.3
79972 1999 CV_{135}	15.3	X	52.01010	285.58815	350.23226	1.98564	0.0430100	0.19531564	2.9420138	21	9 7.8	19.2
79973 1999 CP_{136}	15.7	X	135.72549	52.95425	306.81857	3.52219	0.1042776	0.22190847	2.7020090	21	1 8.2	19.3
79974 1999 CS_{137}	15.6	X	249.56983	162.79073	178.85516	0.63354	0.0811110	0.18671941	3.0316314	21	4 20.1	20.0
79975 1999 CS_{139}	16.0	X	176.64453	54.95340	133.86040	2.94462	0.0073297	0.20306676	2.8666642	21	10 21.8	20.0
79976 1999 CT_{152}	15.2	X	193.01981	105.41230	314.34543	1.24851	0.0672720	0.19015941	2.9949587	21	5 25.5	19.8
79977 1999 CS_{155}	14.1	X	332.90418	8.94454	313.66101	12.92889	0.1856696	0.23874952	2.5734025	21	7 7.9	16.6
79978 1999 CC_{158}	5.7	X	49.34219	100.23242	336.99543	18.81215	0.2729557	0.00251845	53.5033014	21	2 24.2	22.4
79979 1999 DQ_{2}	14.0	X	283.93057	256.74257	19.88951	10.57676	0.0856483	0.22336087	2.6902831	21	3 8.5	17.8
79980 1999 DX_{3}	15.6	X	328.86791	343.65526	148.97817	12.46002	0.2248205	0.21503489	2.7592863	21	—	—
79981 1999 DC_{5}	14.6	X	16.12669	334.40556	222.00737	13.12989	0.1933389	0.22666327	2.6640883	21	3 23.4	17.3
79982 1999 DY_{8}	15.1	X	36.18963	103.79711	28.58939	12.02673	0.1269859	0.22358090	2.6885178	21	2 10.6	18.2
79983 1999 DF_{9}	5.8	X	25.62403	176.78313	334.95827	9.84791	0.1379453	0.00314320	46.1552701	21	3 23.2	21.9
79984 1999 EQ_{1}	14.2	X	357.61217	319.32918	340.62250	9.63383	0.0959629	0.19168965	2.9789984	21	7 27.2	17.8
79985 1999 ED_{4}	14.3	X	29.81593	45.97178	340.56516	8.72666	0.1640267	0.20905431	2.8116632	21	—	—
79986 1999 ER_{5}	14.0	X	317.47218	157.12869	159.51702	10.61853	0.1099988	0.18848630	3.0126558	21	6 11.5	18.0
79987 1999 EJ_{10}	14.8	X	14.08453	66.97739	343.55450	5.37746	0.1184003	0.20963010	2.8065123	21	—	—
79988 1999 EK_{10}	15.2	X	306.74783	110.88054	314.09837	1.13382	0.0727350	0.20259867	2.8710780	21	10 22.3	18.9
79989 1999 FH_{1}	14.8	X	335.82149	173.57395	25.40207	5.05255	0.1055207	0.17344562	3.1843966	21	2 10.2	19.0
79990 1999 FP_{1}	15.3	X	62.27341	98.32425	206.83474	1.42942	0.0152641	0.20119025	2.8844616	21	10 25.3	19.1
79991 1999 FW_{3}	14.3	X	78.81915	62.91882	184.48859	1.68277	0.0679487	0.19434252	2.9518265	21	9 9.4	18.4
79992 1999 FS_{4}	13.8	X	255.35053	162.76237	194.97656	9.64710	0.0993174	0.18371912	3.0645484	21	5 16.1	18.4
79993 1999 FU_{4}	15.5	X	108.12743	72.04478	189.02578	1.75481	0.0554871	0.19779965	2.9173310	21	10 30.9	19.8
79994 1999 FZ_{4}	14.6	X	133.99190	269.38593	192.13493	9.58909	0.0590290	0.18244600	3.0787883	21	5 13.3	19.1
79995 1999 FB_{15}	14.7	X	318.37473	77.87824	193.08653	15.61713	0.1095716	0.17907607	3.1172934	21	4 14.2	18.8
79996 1999 FS_{19}	14.5	X	109.25711	335.62634	277.49084	0.77762	0.0291674	0.19973644	2.8984414	21	10 19.3	18.6
79997 1999 FW_{22}	13.2	X	264.69767	356.29555	343.97087	13.83114	0.1790029	0.23145201	2.6272138	21	4 14.5	17.5
79998 1999 FH_{27}	14.6	X	332.40119	314.10125	157.72585	8.25844	0.1856525	0.21056450	2.7982034	21	—	—
79999 1999 FJ_{32}	13.8	X	21.84417	229.20510	20.67918	10.01082	0.0303993	0.18546578	3.0452774	21	6 21.6	18.1
80000 1999 FR_{33}	13.8	X	347.90228	163.09723	167.89891	9.82343	0.0850370	0.19171025	2.9787850	21	8 18.9	17.5