Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128001 2003 HV_{51}	15.3	X	139.19415	91.07105	128.24433	6.04364	0.2523075	0.23702686	2.5858560	21	10 26.3	19.9
128002 2003 HU_{52}	16.4	X	209.23455	110.43633	57.73694	5.69219	0.0799325	0.24190027	2.5510079	21	11 2.3	19.8
128003 2003 HM_{53}	15.6	X	287.56476	243.75392	84.55427	15.00132	0.0933543	0.22209646	2.7004841	21	5 18.2	19.3
128004 2003 HY_{53}	16.3	X	37.46331	319.42415	12.79197	7.23857	0.2164687	0.29500266	2.2348691	21	12 13.3	19.1
128005 2003 HH_{54}	15.8	X	144.84789	247.65841	206.04734	1.70826	0.0494062	0.22190530	2.7020347	21	5 11.4	19.5
128006 2003 HG_{55}	16.0	X	215.68294	58.05451	201.09132	1.44500	0.0212283	0.20234462	2.8734806	21	—	—
128007 2003 HS_{55}	16.0	X	271.06273	8.46434	202.28022	1.89841	0.1462308	0.25506118	2.4624824	21	—	—
128008 2003 JQ_{1}	14.7	X	355.92240	291.11827	63.68643	10.36374	0.0939716	0.18039596	3.1020694	21	10 7.9	18.7
128009 2003 JP_{6}	15.5	X	25.04808	152.23423	67.32893	13.28019	0.0602918	0.21924724	2.7238297	21	5 17.8	18.7
128010 2003 JY_{7}	15.7	X	21.87348	217.66888	87.03266	8.56127	0.2476272	0.22823506	2.6518430	21	10 10.3	18.5
128011 2003 JK_{8}	15.6	X	258.72740	223.94513	82.45024	9.48795	0.1356583	0.21228633	2.7830522	21	3 14.5	20.0
128012 2003 JV_{9}	15.3	X	35.55487	222.55230	86.77563	2.43264	0.1937611	0.17854787	3.1234384	21	10 18.6	19.2
128013 2003 JO_{10}	15.0	X	13.11910	194.17352	103.87911	6.27955	0.1627264	0.17334593	3.1856174	21	8 22.7	18.7
128014 2003 JR_{10}	16.4	X	187.71608	16.48472	124.88024	4.98167	0.0916693	0.28903645	2.2655186	21	9 7.4	19.4
128015 2003 JR_{11}	14.6	X	347.03514	229.95585	85.44415	10.66421	0.0817288	0.17438697	3.1729266	21	7 29.6	18.7
128016 2003 JK_{13}	15.9	X	62.47024	167.54650	44.08604	6.88312	0.1031439	0.22538833	2.6741254	21	7 9.0	19.3
128017 2003 JL_{13}	16.5	X	243.59348	69.65130	162.27872	3.80594	0.1297518	0.30749079	2.1739421	21	—	—
128018 2003 JA_{14}	14.3	X	39.58170	172.13894	90.79432	19.41192	0.1330512	0.17255505	3.1953438	21	8 20.2	18.7
128019 2003 JB_{15}	16.4	X	195.92965	249.82553	212.96485	4.00260	0.0547657	0.23182491	2.6243957	21	7 22.9	20.2
128020 2003 JK_{16}	15.4	X	206.41857	210.95831	75.89802	9.65779	0.1394376	0.20034278	2.8925902	21	—	—
128021 2003 JN_{17}	16.7	X	239.58918	229.90155	50.31320	3.01701	0.1812912	0.25877477	2.4388669	21	1 10.9	20.6
128022 Peterantreasian	15.8	X	115.33176	202.34254	112.58683	10.01089	0.2318708	0.24546393	2.5262574	21	—	—
128023 2003 KE	15.7	X	346.40543	42.94755	77.94941	25.68914	0.2203575	0.25706862	2.4496461	21	—	—
128024 2003 KH	15.4	X	14.09441	120.77034	102.17391	10.01707	0.1482200	0.21868625	2.7284860	21	5 8.6	18.3
128025 2003 KK	16.1	X	324.04942	148.35561	112.21299	10.03913	0.0628490	0.27006175	2.3704310	21	4 8.4	19.1
128026 2003 KE_{1}	16.5	X	43.65386	308.16926	167.32368	4.78301	0.1117647	0.26123492	2.4235309	21	1 13.4	19.0
128027 2003 KT_{3}	14.4	X	19.16946	238.25247	43.45557	19.62042	0.1297323	0.17109870	3.2134502	21	8 15.9	18.8
128028 2003 KM_{5}	14.6	X	76.11354	186.43134	69.33689	18.68482	0.1484004	0.17884908	3.1199304	21	10 7.2	19.4
128029 2003 KV_{7}	16.2	X	277.72322	63.10411	115.04928	8.61313	0.0325556	0.25263327	2.4782342	21	—	—
128030 2003 KK_{14}	17.1	X	35.43834	280.52036	28.81856	2.07812	0.1474673	0.28806950	2.2705855	21	10 27.9	19.5
128031 2003 KM_{14}	16.0	X	110.89853	109.00426	192.22060	3.71870	0.2253855	0.24306564	2.5428476	21	—	—
128032 2003 KW_{17}	16.1	X	18.24200	93.76966	143.40160	6.05726	0.1915915	0.27407464	2.3472363	21	6 2.7	17.8
128033 2003 KX_{17}	15.5	X	328.49463	225.38091	87.32849	8.34693	0.1005885	0.22117069	2.7080146	21	6 22.8	18.7
128034 2003 KB_{18}	14.9	X	140.18154	171.67302	119.20610	9.74911	0.0638032	0.19022358	2.9942851	21	—	—
128035 2003 KK_{18}	16.7	X	36.87042	23.87937	229.78533	5.63568	0.0860473	0.27868454	2.3212797	21	7 24.9	19.3
128036 Rafaelnadal	15.8	X	285.90497	186.46704	68.27495	10.71759	0.2280782	0.26106748	2.4245670	21	1 18.2	19.7
128037 2003 KU_{18}	16.4	X	117.94192	291.37294	316.10926	5.57428	0.0971479	0.29077896	2.2564588	21	11 6.9	19.6
128038 2003 KK_{23}	15.4	X	64.43348	40.51427	220.98082	4.25161	0.1112613	0.17832198	3.1260755	21	9 12.6	19.8
128039 2003 KC_{35}	15.3	X	354.02225	225.28845	89.70980	4.50749	0.2331352	0.22317834	2.6917498	21	8 13.7	17.4
128040 2003 KR_{35}	16.3	X	101.48313	73.97103	142.05041	5.53523	0.0969461	0.28365098	2.2941045	21	9 8.7	19.2
128041 2003 KG_{36}	15.6	X	151.67131	27.54603	156.26283	3.74777	0.1336462	0.23385772	2.6091652	21	9 19.2	19.7
128042 2003 LU	16.3	X	272.10503	170.12666	129.31611	8.18218	0.1456096	0.26645244	2.3917893	21	3 9.5	19.7
128043 2003 LN_{1}	15.0	X	11.19181	216.80242	72.79203	9.41297	0.1837201	0.22419919	2.6835727	21	8 14.7	17.8
128044 2003 LA_{3}	16.1	X	240.28193	17.48119	49.75791	7.94549	0.0547630	0.23043685	2.6349240	21	8 3.1	19.9
128045 2003 LH_{6}	15.2	X	38.53439	259.44926	23.14700	1.16065	0.1576180	0.17287331	3.1914209	21	9 11.9	19.3
128046 2003 MY_{1}	15.0	X	165.72426	307.19660	294.81671	14.44246	0.0793098	0.23554988	2.5966542	21	12 15.3	18.9
128047 2003 MC_{2}	15.3	X	148.67280	182.43268	95.41224	8.75471	0.1650094	0.23972198	2.5664382	21	—	—
128048 2003 MG_{3}	16.2	X	356.60369	355.05854	285.09295	6.24269	0.2289026	0.27463804	2.3440251	21	6 18.7	17.4
128049 2003 MA_{6}	14.7	X	110.90700	25.92223	284.71348	15.37737	0.1590932	0.18167703	3.0874697	21	—	—
128050 2003 MJ_{6}	14.6	X	99.47957	188.19990	173.02665	12.00840	0.0733121	0.18781871	3.0197905	21	—	—
128051 2003 MT_{6}	14.9	X	130.77761	115.19562	174.15293	13.10313	0.1992822	0.24170828	2.5523587	21	—	—
128052 2003 MW_{8}	15.5	X	218.39227	315.43928	227.36620	11.39277	0.1061935	0.23736018	2.5834346	21	11 27.2	19.1
128053 2003 MB_{9}	14.6	X	74.52597	103.61539	192.70921	17.13468	0.1465579	0.17948517	3.1125548	21	11 14.7	19.3
128054 Eranyavneh	14.9	X	111.16117	185.28763	150.86150	1.66087	0.0731756	0.18039192	3.1021157	21	—	—
128055 2003 MM_{10}	15.6	X	100.88349	29.38330	271.89165	4.51765	0.2136058	0.23410725	2.6073109	21	12 27.4	19.9
128056 2003 MU_{12}	13.9	X	78.54782	23.85517	274.77461	20.03944	0.0736423	0.17080066	3.2171873	21	11 6.0	18.8
128057 2003 NR	16.5	X	324.65861	340.08934	305.09073	3.57876	0.2511662	0.26829652	2.3808170	21	4 5.8	19.3
128058 2003 NJ_{2}	15.6	X	46.01014	270.16700	54.57174	3.60067	0.1028403	0.23017248	2.6369412	21	11 15.8	18.9
128059 2003 NW_{2}	13.2	X	65.57560	307.63037	77.76720	11.90670	0.2350018	0.12425860	3.9772700	21	—	—
128060 2003 NJ_{3}	14.1	X	47.48868	83.51537	267.66206	22.71806	0.0811390	0.17266447	3.1939938	21	12 7.3	18.6
128061 2003 NN_{3}	14.6	X	352.47316	237.95090	124.55633	14.92998	0.0733126	0.16950821	3.2335201	21	10 11.8	19.0
128062 Szrogh	14.9	X	92.63050	202.02577	126.15115	13.89754	0.1610697	0.18303925	3.0721322	21	—	—
128063 2003 NB_{8}	16.2	X	16.61368	190.48271	97.30988	3.02819	0.2015907	0.27500366	2.3419470	21	8 29.3	17.9
128064 2003 NK_{9}	15.7	X	85.79966	196.07432	156.37549	4.11018	0.1747893	0.23832985	2.5764226	21	—	—
128065 Bartbenjamin	14.9	X	93.80646	183.11970	222.90350	7.82085	0.1369982	0.19120758	2.9840034	21	1 21.6	19.0
128066 2003 OM	16.2	X	257.55022	327.71127	4.52285	2.30828	0.2241876	0.26271776	2.4144030	21	3 27.5	19.8
128067 2003 OK_{4}	14.8	X	118.44570	58.86172	320.19516	10.17773	0.0892154	0.19082822	2.9879568	21	1 16.8	18.9
128068 2003 OT_{4}	14.4	X	184.39660	4.38052	281.67587	12.95628	0.1262515	0.19076384	2.9886291	21	—	—
128069 2003 OF_{7}	14.8	X	136.07165	66.55134	281.50762	9.10659	0.1081140	0.18983139	2.9984078	21	1 1.4	19.1
128070 2003 OE_{8}	14.9	X	329.79907	349.42861	326.66415	14.22524	0.1947950	0.21624033	2.7490222	21	6 19.1	18.1
128071 2003 OS_{9}	14.4	X	260.98922	169.03235	282.04302	10.94582	0.0410265	0.17060530	3.2196429	21	9 18.3	19.2
128072 2003 OV_{9}	15.0	X	190.09883	7.20496	285.80579	10.85529	0.0768014	0.19137111	2.9823033	21	—	—
128073 2003 OQ_{10}	15.6	X	7.43879	147.27562	107.19520	9.07396	0.1703128	0.21537856	2.7563503	21	6 8.6	18.3
128074 2003 OF_{13}	15.9	X	55.04514	315.83879	24.80824	2.42460	0.1400355	0.23266722	2.6180579	21	12 22.9	19.4
128075 2003 OW_{14}	14.8	X	129.12318	32.98897	239.25408	11.95992	0.0193852	0.17675402	3.1445356	21	12 1.0	19.4
128076 2003 OA_{15}	14.8	X	204.62670	55.41572	184.10898	19.55921	0.0653852	0.18315555	3.0708315	21	—	—
128077 2003 OS_{16}	15.5	X	27.74841	21.75952	171.83472	11.45291	0.1753707	0.26397026	2.4067596	21	4 14.4	17.5
128078 2003 OE_{17}	15.8	X	68.92460	153.00621	143.13653	10.37277	0.0803423	0.22754258	2.6572205	21	11 8.2	19.6
128079 2003 OL_{17}	14.9	X	324.92850	293.31314	155.08664	11.67441	0.0598057	0.17817081	3.1278435	21	12 14.6	19.2
128080 2003 OQ_{20}	15.4	X	144.60562	183.99906	89.06742	9.52344	0.1462475	0.23851634	2.5750794	21	12 30.2	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128081 2003 OO_{21}	15.4	X	243.92584	156.81698	315.67095	14.11594	0.0875038	0.22741406	2.6582216	21	9 22.3	19.4
128082 2003 OS_{23}	14.9	X	181.13416	35.58710	285.03300	8.35773	0.0673285	0.19297745	2.9657305	21	1 12.1	19.3
128083 2003 OJ_{26}	15.7	X	120.00125	145.83086	141.27965	9.95461	0.1127957	0.23527745	2.5986583	21	12 23.6	19.8
128084 2003 OP_{29}	15.2	X	49.48200	148.54482	230.61706	1.40279	0.1349322	0.17821009	3.1273838	21	—	—
128085 2003 OT_{29}	15.7	X	0.07684	318.28689	321.01519	2.63946	0.0590648	0.21313504	2.7756593	21	6 30.3	19.1
128086 2003 OQ_{31}	14.6	X	341.61019	280.18581	139.50183	16.07173	0.1364548	0.17758315	3.1347401	21	12 6.5	18.6
128087 2003 PH	15.9	X	175.45054	273.40389	28.18215	4.73145	0.2114641	0.24608418	2.5220107	21	—	—
128088 2003 PL	14.8	X	102.12979	73.76027	268.13641	7.89590	0.1085349	0.18310942	3.0713473	21	—	—
128089 2003 PG_{3}	15.5	X	27.46763	288.61067	302.15656	8.08587	0.0526299	0.21306458	2.7762712	21	6 4.2	19.2
128090 2003 PJ_{4}	15.3	X	47.48057	19.21330	357.18581	9.12128	0.0899559	0.23583214	2.5945820	21	—	—
128091 2003 PY_{5}	15.7	X	235.18479	62.93842	247.20255	4.84158	0.0553061	0.19848709	2.9105911	21	2 23.0	20.1
128092 2003 PJ_{6}	14.3	X	319.68334	131.85552	315.59804	13.50889	0.0538306	0.17557362	3.1586138	21	12 3.3	18.7
128093 2003 PE_{7}	15.6	X	250.50584	176.23960	186.01289	3.80143	0.1117793	0.21074094	2.7966414	21	5 12.8	19.7
128094 2003 PT_{7}	15.9	X	233.95433	95.60411	221.29802	2.14784	0.1846981	0.20148007	2.8816948	21	2 24.4	20.8
128095 2003 PU_{7}	15.1	X	156.88337	45.15671	293.94952	8.52338	0.0900245	0.19273729	2.9681936	21	1 10.8	19.5
128096 2003 PZ_{7}	15.9	X	112.44571	325.21503	261.10718	4.02471	0.2150223	0.28317065	2.2966980	21	10 11.6	19.7
128097 2003 PS_{8}	15.1	X	32.96865	27.56650	328.04073	4.31659	0.1722380	0.17395756	3.1781460	21	12 5.9	19.3
128098 2003 PX_{8}	15.5	X	59.60252	320.99910	322.50985	8.30385	0.0837972	0.22486483	2.6782742	21	10 3.2	19.1
128099 2003 PC_{9}	15.0	X	62.84059	121.96264	309.52665	12.27223	0.1040954	0.19019108	2.9946262	21	1 8.6	18.7
128100 2003 PY_{9}	15.2	X	298.60432	253.76700	184.74986	5.32553	0.1175489	0.17195398	3.2027858	21	10 19.3	19.3
128101 2003 PG_{11}	15.3	X	270.83887	350.08271	327.38970	14.57302	0.1343666	0.20454766	2.8528112	21	3 30.0	19.8
128102 2003 PA_{12}	16.1	X	100.71411	337.04264	316.37921	5.11680	0.3167844	0.23469789	2.6029346	21	12 23.7	20.8
128103 2003 QW_{1}	15.3	X	305.57874	15.04826	243.47831	1.09946	0.0124453	0.19978220	2.8979987	21	3 22.0	19.3
128104 2003 QG_{4}	15.3	X	124.40867	338.66004	302.95835	5.45832	0.1501481	0.17896607	3.1185706	21	12 13.5	20.3
128105 2003 QK_{6}	15.3	X	129.12893	328.38281	2.39114	4.09543	0.1641256	0.18312783	3.0711415	21	—	—
128106 2003 QQ_{7}	14.5	X	62.80451	0.68849	331.10224	8.87186	0.0982520	0.17460183	3.1703231	21	12 3.4	19.1
128107 2003 QY_{9}	15.5	X	53.51211	2.74231	359.47164	12.65543	0.1071788	0.23386109	2.6091401	21	—	—
128108 2003 QP_{13}	15.5	X	61.52424	168.22383	157.71534	14.66243	0.2645290	0.22824769	2.6517452	21	12 26.3	19.8
128109 2003 QB_{14}	15.2	X	127.33469	296.41129	280.83011	10.94853	0.1382489	0.22478207	2.6789315	21	9 30.2	19.7
128110 2003 QJ_{15}	14.7	X	307.21274	145.67459	305.57056	9.10398	0.0686842	0.17377157	3.1804133	21	11 18.8	19.1
128111 2003 QJ_{17}	15.7	X	296.82653	239.72430	134.46680	4.47101	0.1059606	0.21657136	2.7462203	21	7 27.9	19.0
128112 2003 QP_{18}	15.5	X	93.30118	285.08484	72.38668	2.28373	0.1795110	0.18125874	3.0922178	21	—	—
128113 2003 QK_{19}	15.0	X	22.02128	287.74965	335.15218	11.03177	0.1295427	0.21445104	2.7642922	21	7 20.3	18.2
128114 2003 QW_{19}	14.4	X	338.70286	53.81637	350.71520	15.00453	0.0453687	0.17096849	3.2150815	21	10 31.9	19.0
128115 2003 QC_{26}	15.1	X	129.49852	136.91569	235.40194	2.45995	0.1071119	0.19007705	2.9958237	21	1 22.1	19.4
128116 2003 QE_{30}	14.8	X	127.17326	89.85119	117.97098	16.62522	0.0609503	0.22546859	2.6734907	21	9 25.7	18.9
128117 2003 QP_{33}	14.9	X	202.37836	192.34715	121.51371	7.87502	0.2057991	0.19652169	2.9299647	21	1 28.2	19.8
128118 2003 QY_{33}	14.8	X	91.41973	204.03431	150.81308	9.97040	0.0671870	0.18332186	3.0689740	21	—	—
128119 2003 QF_{34}	15.4	X	74.07684	200.40605	164.80461	2.52752	0.0305124	0.18255770	3.0775322	21	—	—
128120 2003 QS_{34}	15.4	X	255.01528	157.04366	127.15860	3.07094	0.0420959	0.19822934	2.9131136	21	2 17.7	19.5
128121 2003 QA_{35}	14.2	X	59.21119	7.89471	22.11615	1.09158	0.2891112	0.12533491	3.9544675	21	—	—
128122 2003 QD_{35}	15.0	X	47.37456	244.63488	150.31992	9.87839	0.1232179	0.18076417	3.0978554	21	—	—
128123 2003 QR_{35}	14.9	X	40.41284	261.41916	149.68104	13.55534	0.1416829	0.18166391	3.0876183	21	—	—
128124 2003 QY_{38}	14.7	X	6.59629	236.08600	159.03176	10.84840	0.0765923	0.17432288	3.1737043	21	12 7.6	19.0
128125 2003 QK_{39}	15.1	X	208.33420	51.98611	328.98771	1.17933	0.0816904	0.20318477	2.8655542	21	4 22.1	19.4
128126 2003 QY_{39}	14.0	X	51.41403	160.70993	246.13757	1.76966	0.2500423	0.12405038	3.9817194	21	—	—
128127 2003 QN_{40}	15.9	X	238.70676	49.45685	256.95843	1.49971	0.1522116	0.20024916	2.8934918	21	2 18.1	20.5
128128 2003 QO_{40}	14.5	X	274.26344	21.67059	317.77061	8.86945	0.1446828	0.15470824	3.4365850	21	5 6.3	19.6
128129 2003 QR_{40}	15.2	X	30.53575	276.20857	330.41718	8.31902	0.1113240	0.21514867	2.7583134	21	7 8.8	18.4
128130 2003 QU_{44}	15.3	X	16.32589	344.49577	336.10387	13.52063	0.1812574	0.22218877	2.6997361	21	9 30.1	18.4
128131 2003 QV_{44}	15.0	X	224.56892	278.95745	351.46357	8.84338	0.0966972	0.19173445	2.9785344	21	—	—
128132 2003 QW_{45}	15.4	X	191.21520	228.29755	117.34450	2.94585	0.1274275	0.19533604	2.9418090	21	2 23.7	20.1
128133 2003 QT_{46}	14.7	X	15.11639	339.51779	86.99876	10.32523	0.0554495	0.18226332	3.0808451	21	—	—
128134 2003 QX_{46}	14.4	X	23.36611	52.15700	291.56666	11.37569	0.0404580	0.17204765	3.2016232	21	10 17.2	19.0
128135 2003 QL_{48}	16.5	X	39.45223	29.47330	272.54452	5.40011	0.1240526	0.27709417	2.3301531	21	10 15.1	19.2
128136 2003 QR_{50}	14.7	X	124.81246	130.94376	104.15162	5.48167	0.0419731	0.16792992	3.2537486	21	10 15.6	19.5
128137 2003 QQ_{52}	14.7	X	346.70558	302.55943	139.89365	11.55678	0.0616449	0.17989953	3.1077736	21	—	—
128138 2003 QD_{54}	14.4	X	17.35379	246.07602	145.98287	22.64509	0.0237651	0.17609335	3.1523958	21	12 15.1	19.2
128139 2003 QU_{55}	14.8	X	68.34262	220.82287	89.19653	5.90763	0.0632701	0.17155259	3.2077796	21	11 11.6	19.4
128140 2003 QK_{56}	15.3	X	19.73396	227.75622	147.23137	9.84236	0.1654060	0.17137697	3.2099707	21	12 11.1	19.5
128141 2003 QE_{58}	15.1	X	28.01228	75.39004	323.80991	4.15340	0.1120624	0.17785214	3.1315786	21	—	—
128142 2003 QH_{60}	15.4	X	212.66171	254.58965	89.68396	3.25993	0.1245797	0.19733938	2.9218655	21	3 14.5	20.1
128143 2003 QS_{60}	15.1	X	95.09181	202.92782	129.49439	5.48626	0.1756538	0.17746893	3.1360850	21	—	—
128144 2003 QA_{61}	13.5	X	120.54294	249.13555	15.65715	17.62262	0.1909404	0.17339084	3.1850673	21	11 17.6	19.0
128145 2003 QL_{61}	14.5	X	102.39393	203.87943	147.23394	11.91257	0.0988591	0.18009167	3.1055627	21	—	—
128146 2003 QO_{65}	15.1	X	86.66868	300.21214	17.78485	4.52620	0.1241751	0.17580785	3.1558078	21	12 17.5	19.9
128147 2003 QX_{68}	15.1	X	12.00869	149.22160	104.33761	10.57089	0.1971059	0.21481586	2.7611616	21	6 17.8	17.6
128148 2003 QH_{69}	15.1	X	37.93002	170.65170	135.03280	14.81920	0.1575127	0.22271212	2.6955050	21	10 23.9	18.8
128149 2003 QX_{71}	14.4	X	218.66513	340.23964	248.27507	14.65849	0.0623526	0.17916144	3.1163031	21	—	—
128150 2003 QL_{77}	14.6	X	121.19046	10.14442	317.06086	3.12487	0.0723860	0.18026578	3.1035626	21	—	—
128151 2003 QZ_{78}	14.5	X	157.29957	304.81127	16.44521	13.20995	0.2083995	0.23742036	2.5829981	21	—	—
128152 2003 QW_{79}	14.6	X	78.49566	195.26690	110.58326	13.09753	0.2267658	0.17541656	3.1604989	21	12 8.1	19.6
128153 2003 QT_{81}	15.6	X	145.66645	354.71180	356.67893	6.51121	0.0815954	0.18868313	3.0105603	21	1 14.3	20.1
128154 2003 QX_{88}	15.0	X	139.12738	295.50810	23.69670	10.70374	0.1733184	0.23461294	2.6035629	21	—	—
128155 2003 QY_{88}	14.6	X	141.34615	272.90942	46.99293	16.53623	0.0917580	0.18448531	3.0560575	21	—	—
128156 2003 QK_{92}	15.1	X	37.88230	110.17842	308.39928	15.16589	0.0631847	0.18499127	3.0504826	21	—	—
128157 2003 QG_{94}	16.0	X	107.50580	306.47424	348.23517	11.62459	0.1074408	0.23303985	2.6152664	21	12 19.2	20.2
128158 2003 QA_{96}	15.9	X	187.28397	256.89194	171.64707	1.86985	0.0517892	0.20436089	2.8545491	21	5 30.3	20.0
128159 2003 QJ_{100}	15.5	X	327.44693	46.78470	321.35769	5.17389	0.0382791	0.21988499	2.7185604	21	9 10.8	19.0
128160 2003 QX_{100}	16.0	X	101.34870	139.03556	167.94413	14.99505	0.1043417	0.23332951	2.6131014	21	12 27.7	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128161 2003 QV_{102}	15.4	X	136.82274	115.06143	201.03950	1.27973	0.0765179	0.18382572	3.0633635	21	—	—
128162 2003 QC_{103}	14.8	X	97.31877	334.70586	340.92688	6.91608	0.0266859	0.17776541	3.1325971	21	12 16.5	19.4
128163 2003 QP_{103}	16.1	X	315.50176	265.66280	42.21218	4.55859	0.1997189	0.20985957	2.8044661	21	5 10.8	19.4
128164 2003 QJ_{104}	14.1	X	41.59707	26.63124	351.43168	15.54874	0.2066497	0.17703899	3.1411603	21	—	—
128165 2003 QR_{104}	14.6	X	32.98077	10.15748	344.47366	3.96098	0.1247203	0.17171269	3.2057855	21	11 27.2	18.9
128166 Carora	14.4	X	122.83248	311.37316	12.64297	14.36463	0.0803606	0.17759352	3.1346182	21	—	—
128167 2003 QA_{106}	15.2	X	125.44973	47.65012	313.01440	2.72017	0.1120211	0.18495584	3.0508722	21	1 6.1	19.4
128168 2003 QC_{109}	14.8	X	144.62086	175.18651	113.81903	10.60878	0.0817104	0.18184301	3.0855906	21	—	—
128169 2003 RD_{1}	15.0	X	64.31917	229.75084	156.64161	5.42884	0.1552846	0.17897475	3.1184698	21	—	—
128170 2003 RA_{2}	15.0	X	128.54346	167.91267	169.82560	11.62210	0.1051176	0.18506860	3.0496328	21	—	—
128171 2003 RT_{2}	15.6	X	238.42733	165.85453	109.46918	1.54840	0.1039703	0.19409602	2.9543252	21	1 16.5	20.0
128172 2003 RA_{4}	15.1	X	270.62109	195.51582	352.46085	1.42092	0.0454893	0.18440094	3.0569896	21	—	—
128173 2003 RD_{8}	15.8	X	158.77465	212.19497	71.32186	5.84500	0.2140956	0.24019190	2.5630897	21	—	—
128174 2003 RW_{8}	15.3	X	189.18152	188.77823	158.29541	1.93947	0.1330379	0.19520536	2.9431217	21	2 22.9	20.0
128175 2003 RP_{9}	13.6	X	43.92353	174.72927	242.81646	9.60360	0.1957891	0.12425835	3.9772753	21	—	—
128176 2003 RB_{10}	14.8	X	103.86571	324.19118	2.81181	4.35643	0.1649648	0.17664529	3.1458258	21	—	—
128177 Griffioen	15.6	X	274.34979	123.97416	173.58523	7.54213	0.0294601	0.20233493	2.8735723	21	3 30.7	19.5
128178 2003 RE_{12}	14.6	X	49.23013	325.12863	35.29111	9.93067	0.0722475	0.17617534	3.1514177	21	12 18.6	19.1
128179 2003 RV_{12}	14.5	X	116.13989	269.85156	348.95068	2.57360	0.1140467	0.17212948	3.2006085	21	11 6.1	19.4
128180 2003 RY_{13}	14.3	X	183.42418	349.27522	261.55563	17.32147	0.0873087	0.17953891	3.1119337	21	12 31.7	19.2
128181 2003 RS_{14}	15.6	X	326.85582	173.49332	138.60203	5.02700	0.0562141	0.21184746	2.7868946	21	6 24.4	19.2
128182 2003 RO_{18}	14.6	X	131.44947	338.15582	267.94553	6.03717	0.1144740	0.17251922	3.1957863	21	11 5.5	19.6
128183 2003 RP_{22}	14.9	X	8.16457	37.17794	270.11863	11.46165	0.1763400	0.21745556	2.7387709	21	8 23.2	18.0
128184 2003 RN_{23}	15.7	X	118.95756	348.51471	161.94858	1.49782	0.0148370	0.20979826	2.8050125	21	6 18.9	19.5
128185 2003 SP	14.6	X	156.72122	39.37342	178.58070	8.01789	0.0226830	0.17023777	3.2242752	21	10 29.6	19.3
128186 2003 SG_{1}	15.6	X	277.59985	247.97778	242.57563	3.66846	0.1226593	0.17378859	3.1802057	21	11 21.9	19.9
128187 2003 SJ_{2}	16.0	X	286.23455	262.54096	358.53152	1.61198	0.0605899	0.19688631	2.9263462	21	2 23.7	20.2
128188 2003 SB_{3}	14.4	X	197.28527	224.32017	355.57003	8.40916	0.0407438	0.17446147	3.1720232	21	12 13.7	19.1
128189 2003 SR_{6}	14.6	X	33.15025	186.66151	189.45645	3.25937	0.1661494	0.17141459	3.2095011	21	12 29.8	18.9
128190 2003 SW_{6}	14.5	X	86.69443	313.45069	30.87893	1.87528	0.1179052	0.17657186	3.1466979	21	—	—
128191 2003 SW_{8}	15.0	X	288.89386	240.28329	340.26515	3.73673	0.0100065	0.18833328	3.0142875	21	1 17.3	19.1
128192 2003 SQ_{11}	15.3	X	200.11066	180.78694	199.43465	1.86436	0.1060477	0.20096809	2.8865869	21	4 13.1	19.8
128193 2003 SA_{13}	14.2	X	12.11739	21.28844	354.23726	5.64093	0.0928550	0.17056411	3.2201612	21	11 18.9	18.5
128194 2003 SP_{14}	14.7	X	280.06494	334.20692	173.26809	8.00412	0.0331325	0.17723348	3.1388618	21	12 27.3	19.1
128195 2003 SC_{17}	14.6	X	70.20480	328.22736	25.64430	1.92482	0.1790206	0.17559292	3.1583824	21	—	—
128196 2003 SN_{27}	15.0	X	140.39456	341.78055	273.01516	8.18154	0.0542008	0.17552693	3.1591740	21	11 23.2	19.7
128197 2003 SR_{35}	14.3	X	296.16360	146.59745	212.84235	9.04463	0.0931007	0.15564357	3.4228031	21	7 6.9	19.1
128198 2003 SR_{39}	13.8	X	76.35208	55.90869	335.91090	8.33432	0.2116196	0.12458751	3.9702669	21	1 10.5	19.0
128199 2003 SP_{43}	14.9	X	19.18930	92.67380	320.79473	8.47468	0.0879385	0.17820326	3.1274637	21	—	—
128200 2003 SE_{45}	15.6	X	213.76221	209.66115	132.05522	2.75158	0.1061570	0.19677132	2.9274861	21	3 12.2	20.1
128201 2003 SZ_{46}	14.3	X	57.22943	54.41170	286.00891	2.33734	0.1199056	0.17217015	3.2001044	21	12 10.8	18.9
128202 2003 SX_{47}	14.9	X	136.64670	357.13023	262.73320	4.15933	0.1422552	0.17333264	3.1857803	21	11 28.3	20.1
128203 2003 SN_{52}	15.1	X	100.07442	240.10047	142.38403	3.57612	0.3107986	0.12700800	3.9196624	21	2 7.7	20.8
128204 2003 SX_{53}	14.5	X	78.03482	270.18428	74.77620	11.68134	0.0550991	0.17768651	3.1335244	21	—	—
128205 2003 SW_{56}	14.8	X	335.72052	266.46977	186.47434	11.59861	0.0332656	0.17713351	3.1400428	21	—	—
128206 2003 SU_{58}	14.5	X	12.93767	124.16758	259.00760	8.71642	0.0254691	0.17359013	3.1826291	21	11 24.8	18.8
128207 2003 SL_{61}	14.8	X	87.11055	215.18763	137.39349	10.56945	0.0562828	0.17964375	3.1107227	21	—	—
128208 2003 SZ_{62}	14.3	X	203.81871	223.36248	262.03943	5.87128	0.0163834	0.16159026	3.3383044	21	8 28.0	19.2
128209 2003 SS_{65}	13.9	X	42.85389	284.97720	115.16422	3.13115	0.1536832	0.12384799	3.9860562	21	—	—
128210 2003 SJ_{67}	14.7	X	46.75574	84.18513	12.20216	13.90008	0.1083507	0.18517471	3.0484678	21	1 19.8	18.7
128211 2003 SG_{70}	14.5	X	21.10985	98.23104	11.06124	11.28205	0.1162796	0.18391782	3.0623407	21	—	—
128212 2003 SC_{73}	14.8	X	121.26832	323.07186	332.01631	3.63493	0.1150287	0.17641308	3.1485857	21	12 24.3	19.7
128213 2003 SK_{73}	15.0	X	200.36435	320.93912	2.83554	11.16684	0.1065004	0.19232703	2.9724131	21	2 9.7	19.7
128214 2003 SF_{75}	15.3	X	236.90587	134.51358	235.58228	1.07810	0.0818543	0.20380257	2.8597601	21	5 10.1	19.5
128215 2003 SL_{77}	15.1	X	47.71126	9.89947	264.99260	6.27386	0.1544804	0.21834195	2.7313536	21	9 15.8	18.6
128216 2003 SS_{77}	14.8	X	167.23681	359.52633	291.31940	7.76324	0.1352836	0.18320584	3.0702696	21	—	—
128217 2003 SN_{79}	14.6	X	23.49655	266.65188	344.09318	13.74530	0.1292303	0.20976887	2.8052745	21	7 5.2	18.0
128218 2003 SX_{79}	15.0	X	115.18829	17.93394	318.01477	4.32381	0.1566539	0.18049512	3.1009331	21	—	—
128219 2003 SP_{82}	15.2	X	289.46501	159.14618	122.32301	3.11679	0.0678792	0.19942541	2.9014542	21	3 24.6	19.3
128220 2003 SN_{88}	15.1	X	300.13342	249.48970	41.33528	2.59188	0.0688466	0.20188736	2.8778178	21	4 17.7	18.8
128221 2003 SZ_{99}	15.7	X	178.66502	334.23725	293.95933	0.53299	0.0214379	0.18345401	3.0675001	21	—	—
128222 2003 SP_{101}	14.2	X	73.16660	33.09172	320.46757	9.06962	0.2619897	0.17546926	3.1598662	21	—	—
128223 2003 SG_{102}	14.7	X	236.01305	290.18603	240.56207	18.48128	0.1680486	0.17233703	3.1980382	21	11 13.8	19.5
128224 2003 SZ_{102}	13.9	X	182.27743	237.79670	328.90055	15.94931	0.1013658	0.17084010	3.2166922	21	11 2.2	19.2
128225 2003 SP_{106}	14.5	X	130.34104	30.09024	250.50826	8.83130	0.1064684	0.17525128	3.1624858	21	12 15.5	19.4
128226 2003 SB_{114}	15.3	X	89.40191	17.43068	285.71379	4.14745	0.1597913	0.17408998	3.1765342	21	12 6.4	20.2
128227 2003 SG_{114}	16.0	X	336.92103	148.83135	108.29931	8.78847	0.1927827	0.26293928	2.4130467	21	4 4.5	18.6
128228 2003 SV_{123}	15.2	X	39.74016	155.19438	157.47673	6.24988	0.0324463	0.21941581	2.7224345	21	10 12.5	18.8
128229 2003 SO_{125}	15.4	X	178.84118	358.25719	342.07586	8.50445	0.1571787	0.19160338	2.9798925	21	2 8.8	20.2
128230 2003 SQ_{126}	14.4	X	82.48301	176.69308	177.45291	10.86073	0.0421364	0.17492029	3.1664739	21	—	—
128231 2003 SH_{140}	14.5	X	217.62703	289.40941	299.11517	17.92517	0.1903745	0.18098073	3.0953837	21	—	—
128232 2003 SO_{146}	14.4	X	222.38095	318.86943	321.02992	8.79271	0.0637028	0.18606229	3.0387652	21	1 9.7	19.0
128233 2003 SD_{148}	14.6	X	187.51608	259.18094	74.86160	11.57928	0.0775850	0.19211195	2.9746312	21	2 7.9	19.3
128234 2003 SC_{149}	15.5	X	153.69175	257.94381	57.76886	1.71942	0.1123176	0.18218392	3.0817402	21	—	—
128235 2003 ST_{150}	13.7	X	43.91479	352.02479	60.55789	11.36686	0.1588773	0.12378971	3.9873072	21	—	—
128236 2003 SC_{151}	14.4	X	118.23572	228.70191	97.49430	11.33638	0.0868678	0.17971510	3.1098994	21	—	—
128237 2003 SZ_{151}	15.2	X	157.73089	111.17319	172.64814	0.97848	0.1658781	0.17925787	3.1151853	21	—	—
128238 2003 SL_{154}	14.7	X	329.36161	190.95987	359.67774	9.50205	0.0362293	0.18793821	3.0185103	21	1 29.3	18.9
128239 2003 SX_{154}	14.3	X	188.06507	297.02803	322.10514	6.67044	0.0785028	0.17897884	3.1184223	21	—	—
128240 2003 SK_{165}	15.2	X	134.03762	66.57454	187.62517	14.53923	0.0737480	0.22356653	2.6886330	21	11 26.1	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128241 2003 SO_{166}	15.0	X	327.44767	152.26706	29.36536	9.18405	0.0296461	0.18993848	2.9972807	21	1 15.4	19.3
128242 2003 SF_{171}	15.7	X	79.82022	340.76462	261.85724	1.08060	0.0405819	0.21793253	2.7347734	21	9 2.1	19.5
128243 2003 SO_{173}	14.9	X	234.05711	286.97279	167.17076	9.72091	0.1112525	0.15824547	3.3851808	21	8 16.5	20.0
128244 2003 SZ_{175}	14.8	X	330.45885	277.49680	167.59473	11.13499	0.0494822	0.17543285	3.1603033	21	12 17.0	19.2
128245 2003 SU_{176}	14.2	X	14.86722	221.09544	354.95360	17.26388	0.2638359	0.20452041	2.8530647	21	4 19.2	16.8
128246 2003 SC_{177}	15.6	X	302.48907	217.51568	34.76722	2.38837	0.0671571	0.19637419	2.9314317	21	3 4.5	19.7
128247 2003 SW_{203}	15.3	X	148.43955	208.75593	122.46375	2.18777	0.0392061	0.18420110	3.0592002	21	—	—
128248 2003 SD_{216}	14.5	X	99.17638	162.05588	200.25517	0.08156	0.1763993	0.17905668	3.1175184	21	—	—
128249 2003 SR_{236}	15.3	X	249.95388	4.29710	282.01797	0.83569	0.0472510	0.19353635	2.9600180	21	2 14.0	19.7
128250 2003 SB_{238}	14.7	X	125.65889	33.75612	294.41106	10.17499	0.0949994	0.18379833	3.0636678	21	—	—
128251 2003 SA_{247}	14.9	X	137.87839	178.59707	185.97569	10.25019	0.1075140	0.18676029	3.0311890	21	1 21.4	19.5
128252 2003 SG_{249}	15.4	X	206.60959	232.85345	149.22958	2.71808	0.0804298	0.19895900	2.9059869	21	4 23.6	19.8
128253 2003 SU_{258}	15.1	X	170.44602	255.21595	74.11548	3.26256	0.0988093	0.18630151	3.0361634	21	1 15.4	19.8
128254 2003 SL_{259}	14.7	X	97.19221	353.70475	32.10045	3.10349	0.2747888	0.12543669	3.9523281	21	2 5.6	20.3
128255 2003 SG_{270}	14.5	X	147.48457	176.60855	151.23416	12.79826	0.0985297	0.18223467	3.0811680	21	—	—
128256 2003 SG_{284}	14.9	X	136.52515	303.21186	327.16223	8.26080	0.0798300	0.17480692	3.1678429	21	12 8.1	19.9
128257 2003 SG_{292}	14.8	X	297.02024	276.92385	296.17418	9.11668	0.1019804	0.18863827	3.0110376	21	1 5.5	19.2
128258 2003 SF_{297}	16.1	X	317.73978	359.38237	341.67403	4.26991	0.0834293	0.21407241	2.7675507	21	7 18.5	19.4
128259 2003 SQ_{297}	14.0	X	279.09138	127.07237	340.80001	32.02624	0.0076656	0.17038360	3.2224352	21	10 22.6	19.2
128260 2003 SP_{298}	14.7	X	36.22289	34.65714	328.79328	21.20852	0.1517417	0.17134325	3.2103919	21	12 18.0	19.4
128261 2003 SX_{298}	16.6	X	55.43352	139.82001	148.98050	3.73550	0.2299103	0.27624461	2.3349281	21	11 8.1	19.7
128262 2003 SL_{301}	15.5	X	270.45620	259.56868	77.00014	3.06739	0.0713877	0.20506293	2.8480303	21	5 8.5	19.4
128263 2003 SL_{303}	14.7	X	168.04026	259.32259	323.56558	10.29608	0.2330961	0.22606233	2.6688075	21	11 14.1	19.5
128264 2003 SZ_{303}	13.8	X	193.92925	236.93091	4.75232	10.58766	0.0501827	0.17590727	3.1546186	21	—	—
128265 2003 SF_{304}	14.3	X	150.78299	245.51112	33.42304	11.81587	0.0962034	0.17594586	3.1541573	21	—	—
128266 2003 TB_{1}	14.1	X	194.08151	4.99654	277.64211	18.37291	0.0918077	0.18356685	3.0662428	21	—	—
128267 2003 TM_{6}	14.6	X	145.59711	198.85571	111.47397	11.92857	0.0341122	0.17972968	3.1097312	21	—	—
128268 2003 TB_{7}	13.8	X	100.91202	230.80648	70.10370	17.67456	0.1392980	0.17312629	3.1883112	21	12 12.1	18.7
128269 2003 TD_{14}	14.0	X	87.70350	23.49666	304.96661	16.24410	0.0968127	0.17405287	3.1769856	21	12 29.5	18.9
128270 2003 TV_{49}	14.6	X	345.10811	324.11657	155.56910	10.06588	0.0671245	0.18181082	3.0859549	21	—	—
128271 2003 UY_{3}	15.8	X	157.12472	192.49010	156.15835	3.88795	0.0238571	0.18623397	3.0368973	21	1 16.1	20.0
128272 2003 UD_{38}	15.7	X	157.17912	242.64952	71.59060	5.68428	0.1723193	0.23554081	2.5967209	21	—	—
128273 2003 UC_{52}	16.1	X	317.45202	14.94975	324.82137	8.05773	0.2512827	0.26706918	2.3881056	21	6 18.4	18.4
128274 2003 UB_{58}	14.9	X	345.48242	166.67047	357.06555	15.81338	0.0279439	0.18642208	3.0348541	21	1 20.1	19.3
128275 2003 UJ_{63}	14.6	X	141.77279	151.54753	151.55752	11.05983	0.1362387	0.17895381	3.1187130	21	—	—
128276 2003 UM_{74}	15.7	X	37.64791	285.87666	354.27043	11.54859	0.2649841	0.21632270	2.7483243	21	9 27.5	18.9
128277 2003 UR_{119}	14.9	X	106.14362	297.98198	302.26042	13.09264	0.1604322	0.21853499	2.7297449	21	10 7.7	19.4
128278 2003 UL_{134}	14.6	X	188.91038	27.85966	255.38854	8.34701	0.1082921	0.18131138	3.0916192	21	—	—
128279 2003 UG_{137}	15.1	X	327.72098	164.52843	129.12462	2.45762	0.1437175	0.20525847	2.8462213	21	5 21.4	18.4
128280 2003 UE_{139}	14.7	X	214.90999	184.01843	65.42723	13.30352	0.0460049	0.18123535	3.0924839	21	—	—
128281 2003 UQ_{145}	15.4	X	290.19388	258.32996	106.80001	3.42724	0.0752421	0.20624520	2.8371360	21	7 10.5	19.1
128282 2003 UR_{156}	14.8	X	108.50378	203.88263	179.58146	11.72704	0.0976739	0.18262059	3.0768256	21	1 10.1	19.3
128283 2003 UY_{166}	14.8	X	227.28085	325.77918	354.91476	9.76909	0.1029446	0.19178485	2.9780125	21	3 1.7	19.4
128284 2003 UZ_{167}	14.8	X	164.89010	279.87225	68.96533	14.69299	0.0480123	0.18615409	3.0377660	21	1 31.4	19.4
128285 2003 UE_{183}	15.8	X	159.98388	101.15861	255.83741	1.27923	0.0729694	0.18724347	3.0259721	21	2 2.9	20.3
128286 2003 UC_{187}	14.6	X	173.57090	298.28790	356.99935	8.85854	0.0637512	0.17903203	3.1178045	21	—	—
128287 2003 UZ_{196}	15.3	X	201.43485	193.24356	111.97639	1.64357	0.1846221	0.18735590	3.0247615	21	1 18.4	20.3
128288 2003 UZ_{209}	15.4	X	285.15338	273.91829	17.47173	3.95185	0.1692521	0.19701483	2.9250734	21	3 17.9	19.5
128289 2003 US_{254}	15.5	X	241.43694	76.52219	193.25883	2.47280	0.1170425	0.18700089	3.0285885	21	1 12.9	20.3
128290 2003 UR_{258}	15.4	X	153.57929	161.33983	120.68249	0.57365	0.1468650	0.17594628	3.1541523	21	—	—
128291 2003 UV_{258}	14.0	X	150.30689	241.87849	64.31611	18.36290	0.2131267	0.17757171	3.1348747	21	—	—
128292 2003 WR_{39}	14.7	X	284.94040	216.98651	21.19691	9.38623	0.0925050	0.18520999	3.0480806	21	1 26.2	19.3
128293 2003 WM_{84}	14.0	X	154.38977	217.07575	59.07925	27.63417	0.1562090	0.17500583	3.1654421	21	12 29.7	19.5
128294 2003 WM_{95}	15.0	X	223.54920	246.04545	115.15894	3.14025	0.1098534	0.19491811	2.9460125	21	4 15.0	19.6
128295 2003 WD_{111}	14.7	X	112.69941	52.51635	319.85966	4.89219	0.1685322	0.12370868	3.9890481	21	1 24.3	20.5
128296 2003 WH_{153}	14.9	X	75.04528	161.93404	185.27537	18.35546	0.1413546	0.17049499	3.2210314	21	—	—
128297 Ashlevi	15.7	X	281.64540	112.69004	279.85597	0.95387	0.0762004	0.20280146	2.8691638	21	8 4.0	19.3
128298 2003 XR_{38}	15.5	X	75.67402	338.91177	71.03012	16.43525	0.0979541	0.23192913	2.6236094	21	—	—
128299 2003 YL_{61}	11.5	X	8.01190	156.32059	104.68527	21.80074	0.0690187	0.08117374	5.2827373	21	6 21.5	18.2
128300 2003 YH_{80}	16.1	X	334.73415	23.89023	69.72277	4.33638	0.1753548	0.21995631	2.7179728	21	—	—
128301 2003 YZ_{139}	12.1	X	346.78290	210.49361	84.53369	26.09804	0.0536797	0.08474715	5.1331738	21	6 30.7	18.7
128302 2004 AR_{9}	16.9	X	265.94359	97.13227	145.99026	3.89606	0.0826580	0.28476995	2.2880909	21	—	—
128303 2004 AS_{26}	15.0	X	254.17892	149.69704	105.08373	16.86390	0.1971024	0.22513588	2.6761240	21	—	—
128304 2004 BV_{10}	15.0	X	218.93550	191.66990	149.98150	10.13001	0.0456258	0.18225256	3.0809663	21	3 22.3	19.5
128305 2004 BL_{47}	15.0	X	246.49903	164.31338	120.79952	10.19048	0.0508423	0.17801428	3.1296768	21	2 12.4	19.6
128306 2004 BD_{55}	16.5	X	204.42963	120.79797	141.21127	3.12604	0.1699495	0.27627485	2.3347577	21	—	—
128307 2004 BV_{56}	16.1	X	199.20940	243.74743	323.41977	3.38356	0.1235433	0.26574507	2.3960318	21	12 8.4	19.5
128308 2004 BV_{72}	15.8	X	290.64799	91.51506	153.08919	13.97113	0.2016064	0.22901319	2.6458328	21	1 15.8	20.1
128309 2004 BV_{93}	15.8	X	73.89014	269.55182	311.16656	11.67308	0.0777265	0.24623857	2.5209564	21	8 3.1	19.0
128310 2004 BM_{114}	16.3	X	224.83301	49.67901	185.81220	3.54620	0.1815714	0.27198861	2.3592225	21	—	—
128311 2004 CG_{74}	14.1	X	107.94096	235.49554	114.84194	18.94939	0.1947764	0.17486543	3.1671362	21	—	—
128312 2004 CN_{75}	15.2	X	293.61494	199.91614	146.44858	11.60259	0.0605731	0.19318265	2.9636299	21	6 22.9	19.4
128313 2004 CB_{95}	14.6	X	291.92593	78.10803	147.57429	3.65719	0.2373534	0.16538897	3.2869898	21	1 2.6	19.7
128314 Coraliejackman	15.7	X	323.37762	200.60944	195.75815	11.85211	0.2593501	0.26355090	2.4093120	21	10 11.0	17.0
128315 Dereknelson	15.8	X	28.21621	172.10601	92.78046	4.66286	0.1190410	0.29884607	2.2156663	21	8 4.9	17.6
128316 2004 DG_{42}	16.6	X	40.04833	60.94876	108.68908	5.10480	0.0953122	0.28971018	2.2620049	21	3 25.3	18.7
128317 2004 DO_{44}	15.2	X	329.37099	94.13245	170.48618	4.01442	0.1151510	0.18032648	3.1028662	21	4 21.4	19.1
128318 2004 ER_{18}	15.7	X	127.42815	231.87020	47.55415	10.55215	0.2457243	0.26197065	2.4189912	21	12 26.9	20.0
128319 2004 EF_{25}	15.6	X	355.57747	221.53623	49.82748	6.46898	0.1798226	0.29534288	2.2331525	21	5 30.9	17.0
128320 2004 EX_{35}	15.5	X	175.04550	276.55182	203.40045	11.16990	0.0114809	0.19153180	2.9806350	21	7 18.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128321 Philipdumont	16.5	X	228.13716	81.94266	154.60316	2.60733	0.1504012	0.27071706	2.3666042	21	—	—
128322 2004 EH_{60}	16.4	X	43.79498	298.45739	326.11557	4.70491	0.1195999	0.30070788	2.2065114	21	8 31.5	18.6
128323 Peterwolff	16.8	X	30.59098	133.40186	192.46637	3.91074	0.2109269	0.31106764	2.1572451	21	11 29.4	19.1
128324 2004 EQ_{79}	16.7	X	12.25368	166.96400	82.04528	4.85177	0.1821301	0.29104984	2.2550585	21	6 5.0	17.8
128325 2004 EF_{115}	15.6	X	258.32732	239.81188	156.08528	2.24247	0.1196950	0.19348437	2.9605481	21	7 2.7	19.9
128326 2004 FN	17.1	X	189.43340	185.78698	186.10929	20.30720	0.0547962	0.40285668	1.8156648	21	2 15.7	19.1
128327 Ericcarranza	17.1	X	62.08165	38.93600	196.13651	21.69791	0.0444925	0.35791509	1.9646388	21	7 30.9	19.7
128328 2004 FU_{15}	16.7	X	151.28622	332.18958	239.65540	19.71366	0.0407303	0.37078272	1.9189179	21	11 11.9	18.8
128329 2004 FK_{21}	16.8	X	267.10165	85.74448	209.07054	5.57075	0.1154857	0.28683152	2.2771142	21	2 21.7	20.1
128330 2004 FX_{27}	16.1	X	74.46340	354.80676	349.74622	2.38312	0.2015829	0.26394439	2.4069169	21	—	—
128331 2004 FM_{46}	17.4	X	72.26565	148.21571	106.33259	3.02513	0.1588577	0.30507434	2.1854067	21	10 7.1	20.1
128332 2004 FC_{50}	16.1	X	224.74257	106.53766	203.70518	8.02511	0.2226032	0.27920730	2.3183813	21	1 28.9	20.1
128333 2004 FL_{55}	15.6	X	311.36923	277.10982	142.45210	2.72721	0.0518178	0.20357244	2.8619149	21	10 25.5	19.2
128334 2004 FO_{65}	16.5	X	297.09210	145.82159	140.62225	3.35846	0.1442222	0.28683020	2.2771211	21	3 17.6	19.2
128335 2004 FP_{79}	15.3	X	205.64427	184.21962	189.08155	4.70716	0.2952729	0.23676318	2.5877756	21	4 5.8	20.1
128336 2004 FP_{107}	16.2	X	291.83721	81.89541	228.35276	4.10106	0.1760178	0.28972591	2.2619231	21	4 5.5	19.3
128337 2004 FD_{111}	16.4	X	324.25174	351.58772	196.36204	9.26049	0.1510176	0.27768801	2.3268299	21	—	—
128338 2004 FQ_{111}	16.2	X	182.71065	192.41415	130.33458	0.16769	0.2274024	0.27538141	2.3398048	21	1 13.3	20.0
128339 2004 FP_{118}	16.0	X	302.39196	237.69396	61.57579	3.92302	0.1606263	0.28813228	2.2702557	21	4 9.4	18.6
128340 2004 FM_{121}	15.8	X	215.58396	152.04614	132.84958	9.84315	0.1343039	0.21677155	2.7445292	21	1 2.0	20.3
128341 Dalestanbridge	16.4	X	94.21821	285.04079	77.91228	21.25765	0.0542058	0.38131105	1.8834313	21	—	—
128342 2004 FS_{157}	15.6	X	283.14910	186.48632	179.42626	10.08531	0.2965608	0.24541038	2.5266248	21	5 29.9	19.4
128343 Brianpage	16.1	X	260.29755	265.93163	29.61170	7.10511	0.1860156	0.22349184	2.6892320	21	2 23.4	20.5
128344 2004 GW_{7}	16.9	X	208.53154	128.27583	348.05961	2.89881	0.0754789	0.30649962	2.1786264	21	8 29.9	19.6
128345 Danielbamberger	15.5	X	254.69090	318.07963	58.16164	8.34880	0.1591920	0.23720849	2.5845358	21	5 27.8	19.2
128346 2004 GQ_{19}	16.0	X	76.67044	286.36676	65.74888	24.23558	0.0680504	0.37631487	1.9000650	21	—	—
128347 2004 GB_{23}	16.9	X	73.02126	209.63506	92.84818	2.19588	0.1706042	0.31023372	2.1611092	21	12 11.9	20.0
128348 Jasonleonard	15.5	X	350.70048	215.48560	106.83615	12.60043	0.2611373	0.23787352	2.5797165	21	8 20.9	17.3
128349 2004 GP_{30}	16.5	X	327.75432	88.75798	192.05841	6.00537	0.1450788	0.28930949	2.2640930	21	4 23.9	18.7
128350 2004 GE_{31}	16.3	X	88.54700	232.98507	15.20578	3.43314	0.0914861	0.30469762	2.1872076	21	10 7.8	18.9
128351 2004 GD_{35}	17.5	X	338.63856	168.05109	85.18830	1.70686	0.1493989	0.28884074	2.2665419	21	3 31.1	19.5
128352 2004 GY_{37}	15.8	X	350.82565	304.33480	46.95516	5.76182	0.1984383	0.30209212	2.1997658	21	10 20.5	17.1
128353 2004 GK_{39}	16.0	X	39.98923	261.76456	80.53927	2.73794	0.2357645	0.30792168	2.1719136	21	—	—
128354 2004 GL_{42}	16.2	X	268.11210	139.71244	130.08322	2.49678	0.0527820	0.22353210	2.6889091	21	2 9.6	19.9
128355 2004 GE_{66}	17.3	X	179.14122	324.98973	344.76984	1.04134	0.1865087	0.27105350	2.3646455	21	—	—
128356 2004 GD_{76}	16.4	X	345.78116	38.37021	315.15754	0.63243	0.1512092	0.25205718	2.4820089	21	9 25.5	18.5
128357 2004 HV_{2}	16.0	X	331.55192	304.46957	312.24174	11.99762	0.1278685	0.23200529	2.6230353	21	3 28.5	19.4
128358 2004 HS_{4}	16.5	X	28.22330	283.53036	53.04175	6.79284	0.2032448	0.30780706	2.1724527	21	12 7.9	18.9
128359 2004 HV_{4}	16.8	X	229.13924	216.41695	74.11308	4.05445	0.1562000	0.27579475	2.3374664	21	1 11.9	20.4
128360 2004 HK_{18}	15.8	X	355.20133	271.39721	52.01799	5.37617	0.2563070	0.23873280	2.5735226	21	9 6.1	17.5
128361 2004 HP_{18}	16.2	X	265.04599	82.14908	255.95630	4.74941	0.1919672	0.28816845	2.2700657	21	4 10.0	19.5
128362 2004 HW_{19}	16.3	X	353.60332	136.40640	196.57236	4.69275	0.1450656	0.30140931	2.2030868	21	9 16.4	17.8
128363 2004 HL_{28}	16.6	X	183.90910	213.21216	87.16289	6.76835	0.2411937	0.26698544	2.3886049	21	—	—
128364 2004 HM_{29}	16.3	X	315.97539	109.70296	214.97096	5.09158	0.2044578	0.29395485	2.2401768	21	5 30.1	18.3
128365 2004 HJ_{44}	16.5	X	332.69715	10.61915	308.98431	4.19050	0.2131573	0.29498249	2.2349710	21	6 25.7	17.8
128366 2004 HX_{44}	17.4	X	317.63983	32.77393	234.34424	0.73268	0.1969350	0.28571148	2.2830614	21	3 8.6	19.9
128367 2004 HM_{53}	16.7	X	92.10907	331.69859	45.08961	1.82878	0.1322282	0.26705288	2.3882028	21	—	—
128368 2004 HH_{59}	16.8	X	1.93684	215.81450	31.99606	3.60329	0.1168489	0.28974961	2.2617997	21	5 10.1	18.6
128369 2004 HT_{62}	15.7	X	19.49788	338.37316	320.93670	0.80701	0.1981611	0.18426590	3.0584830	21	9 8.3	19.0
128370 2004 HB_{72}	16.1	X	52.22640	177.03130	38.86677	4.71317	0.0416742	0.23653578	2.5894339	21	6 19.3	19.3
128371 2004 HO_{74}	15.2	X	21.22473	304.41155	61.26224	10.98435	0.1386691	0.19529504	2.9422207	21	12 1.6	19.0
128372 Danielwibben	16.3	X	32.86061	287.65855	97.15103	24.82653	0.1130945	0.37536047	1.9032844	21	—	—
128373 Kevinjohnson	15.0	X	21.42533	187.75558	136.29638	12.52167	0.0813065	0.18993943	2.9972706	21	10 6.6	19.0
128374 2004 JW_{26}	17.2	X	61.72653	19.72615	233.00577	2.15182	0.1659987	0.29888902	2.2154540	21	9 18.1	19.7
128375 2004 JO_{27}	16.3	X	184.59246	223.62972	71.04972	7.27554	0.1892062	0.26518437	2.3994080	21	—	—
128376 2004 JS_{27}	16.6	X	217.24918	29.76465	246.82891	1.67177	0.2150633	0.26791910	2.3830524	21	—	—
128377 2004 JB_{28}	15.5	X	298.16628	255.59704	52.43763	2.39431	0.1957753	0.17224878	3.1991304	21	4 21.3	19.9
128378 2004 JB_{29}	16.2	X	104.09328	229.16853	65.22261	11.22242	0.2335014	0.25342980	2.4730388	21	12 25.2	20.4
128379 2004 JQ_{33}	17.2	X	105.37807	345.03295	205.98177	5.62508	0.1257069	0.29814063	2.2191599	21	8 10.4	20.2
128380 2004 JF_{34}	16.2	X	308.39991	271.18459	94.43966	7.78299	0.1632267	0.29672174	2.2262288	21	7 30.8	18.1
128381 2004 JB_{35}	15.7	X	238.38937	82.89592	215.96717	8.40773	0.1516920	0.21696149	2.7429272	21	2 4.7	20.4
128382 2004 JH_{35}	16.6	X	122.85301	102.60968	180.57359	3.54036	0.1674071	0.31150555	2.1552229	21	—	—
128383 2004 JW_{52}	13.0	X	93.96478	94.58515	207.72535	9.71302	0.0299099	0.08397457	5.1646100	21	11 13.8	19.9
128384 2004 KV_{3}	16.3	X	118.17380	212.13798	220.11529	5.45818	0.0698425	0.28114212	2.3077323	21	3 2.3	19.2
128385 2004 KD_{4}	15.7	X	45.56643	22.62096	255.69576	4.14123	0.2244906	0.24041943	2.5614723	21	10 2.9	18.9
128386 2004 KL_{5}	16.7	X	120.76239	177.66224	202.23907	2.76664	0.0504582	0.27219419	2.3580345	21	—	—
128387 2004 KH_{8}	15.9	X	330.80031	284.16507	34.82028	2.08427	0.2000838	0.23398576	2.6082133	21	6 23.5	18.4
128388 2004 KD_{13}	16.4	X	291.78763	5.08634	84.33485	24.33021	0.0368525	0.36744305	1.9305276	21	12 12.0	17.7
128389 Dougleland	14.7	X	4.67360	146.04236	115.04886	16.08950	0.0459240	0.17758027	3.1347740	21	6 14.9	19.1
128390 2004 KQ_{14}	15.4	X	12.64015	95.50925	218.65068	26.19422	0.2387573	0.23972997	2.5663812	21	9 25.5	18.1
128391 2004 LQ	15.3	X	0.61132	334.76061	262.00610	24.09712	0.1626992	0.28079397	2.3096395	21	4 5.7	18.2
128392 2004 LY	14.5	X	276.85763	303.69886	112.10552	23.33138	0.0881526	0.18744661	3.0237856	21	8 30.6	18.9
128393 2004 LE_{3}	16.8	X	297.69323	31.00689	214.38040	6.31669	0.1675348	0.27726546	2.3291933	21	1 18.7	20.1
128394 2004 LG_{3}	15.5	X	15.15649	118.59453	188.47041	8.47204	0.1682858	0.23901046	2.5715291	21	9 13.3	17.9
128395 2004 LE_{5}	15.7	X	45.83578	139.68426	172.37517	10.83618	0.1194584	0.24445490	2.5332043	21	11 6.6	19.0
128396 2004 LK_{5}	16.1	X	152.97962	219.72113	119.91129	5.73889	0.2115429	0.26042443	2.4285566	21	1 7.5	19.5
128397 2004 LL_{5}	15.3	X	55.31256	119.43330	177.27408	2.37618	0.0640464	0.18859722	3.0114745	21	10 11.5	19.5
128398 2004 LU_{6}	16.8	X	223.07418	255.00705	27.96528	2.45177	0.1793957	0.27011641	2.3701113	21	—	—
128399 2004 LO_{7}	15.4	X	222.44239	258.64715	67.91889	15.83958	0.1758305	0.21942071	2.7223940	21	3 5.3	20.2
128400 2004 LD_{8}	15.0	X	150.50480	94.26995	288.76144	23.48757	0.1122978	0.26872351	2.3782944	21	2 7.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128401 2004 LO_9	16.2	X	329.31128	32.04135	243.41501	1.16940	0.1689735	0.22831542	2.6512207	21	4 21.2	19.1
128402 2004 LS_9	16.6	X	247.79065	334.41367	310.68334	1.58408	0.1910425	0.26976033	2.3721965	21	1 21.6	20.4
128403 2004 LT_{10}	16.8	X	200.48913	115.02649	247.30485	6.19928	0.1439065	0.28098849	2.3085735	21	3 11.4	20.4
128404 2004 LU_{13}	15.6	X	344.40916	153.60776	180.56339	4.56670	0.2174346	0.23683191	2.5872749	21	8 18.2	17.6
128405 2004 LE_{15}	15.3	X	331.11898	237.90329	79.21159	13.24178	0.1802466	0.23066300	2.6332015	21	6 23.7	18.0
128406 2004 LF_{15}	15.9	X	201.34482	221.45624	78.23935	7.79876	0.1025311	0.26567207	2.3964707	21	—	—
128407 2004 LP_{15}	14.7	X	352.78247	248.32657	91.12352	15.87388	0.2955623	0.18092106	3.0960643	21	9 23.3	17.7
128408 Mikehughes	15.6	X	141.67080	258.39709	127.34140	21.47159	0.3051817	0.26196025	2.4190552	21	3 8.2	19.8
128409 2004 LL_{16}	15.8	X	203.91972	218.47316	122.53235	12.16919	0.2858357	0.26829758	2.3808108	21	2 25.4	20.1
128410 2004 LM_{16}	16.3	X	189.41802	169.36011	172.43358	3.34024	0.1945985	0.26650865	2.3914530	21	2 9.7	20.1
128411 2004 LO_{16}	15.5	X	60.43927	221.34331	99.19953	13.87335	0.1362834	0.24438076	2.5337166	21	12 7.4	19.1
128412 2004 LZ_{16}	14.7	X	333.53068	261.57771	55.62632	10.44834	0.2293651	0.17641756	3.1485324	21	6 23.4	18.2
128413 2004 LR_{17}	15.9	X	304.87450	7.26783	295.71932	12.42164	0.1157587	0.28194415	2.3033538	21	4 18.1	19.0
128414 2004 LO_{18}	15.0	X	233.83917	261.80801	101.63772	26.92465	0.1135722	0.22572933	2.6714316	21	5 7.4	19.6
128415 2004 LZ_{21}	15.4	X	347.12818	152.63592	154.25036	13.16100	0.1830046	0.23501557	2.6005884	21	7 12.4	18.0
128416 2004 LC_{22}	14.8	X	171.45857	48.46947	223.33542	13.03084	0.2266989	0.19897239	2.9058565	21	—	—
128417 Chrismccaa	14.8	X	79.05755	100.44577	91.11936	11.85336	0.0526635	0.17884705	3.1199541	21	6 26.8	19.0
128418 2004 LN_{24}	14.5	X	339.64787	80.04447	303.18653	24.81077	0.2287958	0.17738489	3.1370755	21	9 24.0	18.3
128419 2004 LK_{29}	16.6	X	199.35764	85.70307	192.54846	3.42331	0.1142190	0.26181592	2.4199442	21	—	—
128420 2004 MS	13.8	X	4.97595	115.55109	209.47623	7.13332	0.1881974	0.12402230	3.9823203	21	9 4.4	18.4
128421 2004 MB_1	15.6	X	336.32918	97.58889	264.85320	11.83087	0.2448594	0.23576010	2.5951104	21	9 4.4	17.9
128422 2004 MC_1	15.4	X	333.87263	89.19184	263.96776	12.65428	0.1384185	0.23532910	2.5982780	21	8 21.6	18.5
128423 2004 MD_1	15.9	X	288.81879	9.93023	257.55742	8.71477	0.1926328	0.27583901	2.3372164	21	2 2.4	19.5
128424 2004 MM_1	15.9	X	214.41959	249.02345	271.12390	18.05416	0.0848305	0.36692136	1.9323571	21	11 14.7	18.1
128425 2004 MT_5	15.1	X	319.23389	258.08869	105.40622	9.40762	0.1746563	0.17565979	3.1575808	21	8 8.9	18.8
128426 Vekerdi	16.8	X	201.81640	185.24416	221.32815	5.60612	0.0909812	0.28690568	2.2767217	21	5 13.2	20.0
128427 2004 MQ_7	15.7	X	347.32475	298.27875	54.13474	6.74778	0.1027649	0.23855937	2.5747697	21	9 27.3	18.5
128428 2004 NJ	16.4	X	159.72617	286.25320	45.81126	1.96277	0.2226480	0.26181847	2.4199285	21	1 6.1	19.9
128429 2004 NK	16.1	X	343.95735	279.18018	42.72726	2.38134	0.0939427	0.23387831	2.6090120	21	8 4.1	18.9
128430 2004 NC_1	15.7	X	179.46763	159.97192	134.62140	5.78139	0.1939091	0.20273590	2.8697822	21	—	—
128431 2004 NO_1	16.0	X	47.07790	173.07550	125.19063	7.03712	0.1547927	0.24011633	2.5636275	21	10 26.3	19.3
128432 2004 NX_1	16.3	X	205.54044	230.12450	91.54466	7.42450	0.1388740	0.26759499	2.3849763	21	1 30.4	19.9
128433 2004 NY_1	14.8	X	47.61979	231.16643	86.99895	13.78508	0.2567307	0.18270873	3.0758361	21	11 25.8	19.1
128434 2004 NJ_2	15.3	X	221.87243	12.15668	307.64730	14.42986	0.2315878	0.27000392	2.3707695	21	2 8.6	19.4
128435 2004 NF_4	14.8	X	164.10132	19.23124	243.74667	19.67474	0.2378595	0.19502874	2.9448983	21	12 24.5	20.1
128436 2004 NA_7	15.7	X	5.65487	94.57964	281.20949	6.14449	0.3115429	0.17959549	3.1112800	21	12 9.9	18.8
128437 2004 NQ_7	16.3	X	127.33738	106.04706	148.68090	23.18159	0.0871716	0.36045025	1.9554160	21	12 14.8	19.3
128438 2004 NY_9	14.6	X	31.87101	30.56918	290.86045	10.55561	0.1279826	0.18204902	3.0832624	21	10 13.1	18.7
128439 Chriswaters	16.7	X	280.19964	42.19359	298.32074	5.64127	0.1665672	0.28143091	2.3061534	21	5 4.0	19.9
128440 2004 NG_{13}	15.5	X	43.28656	128.15431	204.89713	2.01814	0.0798915	0.18651513	3.0338446	21	11 12.1	19.4
128441 2004 NR_{14}	16.2	X	328.66021	225.23164	129.77114	6.42339	0.1808060	0.23376279	2.6098715	21	8 18.1	18.5
128442 2004 NE_{15}	14.7	X	318.27315	55.19290	280.22089	9.39789	0.2441783	0.17086973	3.2163204	21	6 17.9	18.4
128443 2004 NN_{16}	14.8	X	76.83247	253.21825	114.25899	12.13285	0.1387289	0.19376504	2.9576885	21	—	—
128444 2004 NQ_{16}	16.0	X	55.09387	231.00103	79.62019	3.96278	0.1380419	0.24146827	2.5540496	21	11 16.9	19.3
128445 2004 ND_{20}	15.7	X	236.31879	125.42827	288.98510	20.46206	0.1968234	0.28513047	2.2861618	21	6 25.1	19.1
128446 2004 NJ_{21}	16.2	X	238.08545	323.49376	303.98755	1.48374	0.1875045	0.26548483	2.3975973	21	—	—
128447 2004 NZ_{21}	16.3	X	204.37571	357.11686	296.47370	5.46605	0.1485228	0.26291104	2.4132195	21	—	—
128448 2004 NU_{23}	14.2	X	283.13263	93.69298	303.07416	20.22933	0.1585645	0.17104881	3.2140751	21	7 28.6	18.5
128449 2004 NX_{23}	14.9	X	129.53151	72.60693	290.77599	11.03930	0.0970565	0.20084774	2.8877400	21	1 8.7	18.9
128450 2004 NX_{24}	15.6	X	251.20709	76.61173	331.35228	21.76968	0.1657412	0.28246062	2.3005452	21	7 10.6	19.2
128451 2004 NC_{25}	16.0	X	280.30705	3.46945	356.72901	7.94002	0.2967225	0.28004119	2.3137767	21	5 13.2	19.5
128452 2004 NJ_{25}	16.6	X	270.05405	4.96584	343.66586	4.88933	0.1670387	0.27788921	2.3257066	21	5 3.4	19.9
128453 2004 NR_{26}	15.5	X	67.18720	110.12523	198.37717	2.52983	0.1636461	0.18560084	3.0437999	21	11 22.7	19.8
128454 2004 NX_{26}	14.6	X	266.97313	272.18010	133.49373	23.05035	0.1168929	0.17229302	3.1985828	21	7 25.8	19.1
128455 2004 NZ_{27}	16.3	X	213.59144	44.78428	284.40391	5.51998	0.1260583	0.26951488	2.3736366	21	2 12.9	20.0
128456 2004 NL_{28}	16.8	X	272.82981	16.18793	239.91087	2.24923	0.1287330	0.27003516	2.3705867	21	1 12.6	20.3
128457 2004 NW_{28}	15.8	X	134.73512	88.95939	138.01805	15.14321	0.0567864	0.24304305	2.5430052	21	10 30.1	19.7
128458 2004 NE_{29}	15.4	X	175.64622	241.55293	157.66991	10.88117	0.2415428	0.21294309	2.7773270	21	4 18.8	20.3
128459 2004 NS_{29}	16.0	X	231.72296	151.15467	192.96393	5.84913	0.0674343	0.21711406	2.7416421	21	4 1.3	20.0
128460 2004 NZ_{31}	15.5	X	107.26831	273.95989	107.84508	7.83092	0.1193813	0.20363219	2.8613552	21	1 6.3	19.1
128461 2004 OA	16.7	X	5.47843	345.07966	247.23857	8.52525	0.0888603	0.28101958	2.3084032	21	4 23.2	19.1
128462 2004 OU_4	15.9	X	112.93560	79.10390	217.55758	1.11411	0.1930523	0.19221155	2.9736036	21	12 24.9	20.8
128463 2004 OD_5	15.6	X	6.94090	283.28587	291.41468	4.46314	0.0084009	0.21955374	2.7212941	21	4 10.9	19.3
128464 2004 OZ_7	15.4	X	23.21235	45.25618	285.66627	7.89275	0.2158427	0.18191411	3.0847866	21	10 26.5	19.1
128465 2004 OJ_9	15.7	X	122.76288	210.18812	125.58515	2.98175	0.0973581	0.19585655	2.9365945	21	—	—
128466 2004 OH_{10}	15.6	X	146.22547	337.54052	69.02429	6.88110	0.0206137	0.21383501	2.7695987	21	3 14.3	19.5
128467 2004 OH_{11}	15.6	X	230.59370	235.43545	73.16199	8.74232	0.2185091	0.21097049	2.7946124	21	2 13.8	20.5
128468 2004 OK_{11}	15.2	X	11.59718	285.15840	54.23592	9.37594	0.1931855	0.17879796	3.1205250	21	10 19.8	18.7
128469 2004 OH_{12}	15.9	X	354.62115	316.30296	11.32746	1.18188	0.1933558	0.17444176	3.1722622	21	8 27.1	19.1
128470 2004 OX_{12}	15.0	X	352.28994	269.15052	28.92866	5.03031	0.1572932	0.17255133	3.1953898	21	7 12.2	18.7
128471 2004 OG_{13}	16.3	X	102.09780	251.38886	162.57917	6.13548	0.0929301	0.26376646	2.4079992	21	1 21.8	19.1
128472 2004 PS	16.1	X	194.91611	40.82678	306.90410	4.83185	0.3104849	0.26597352	2.3946596	21	2 24.3	20.6
128473 2004 PV	15.6	X	222.48499	210.55226	271.22465	1.82615	0.0937835	0.23573158	2.5953197	21	9 14.6	19.2
128474 Arbacia	15.2	X	66.89169	32.28642	279.39726	10.17546	0.0739600	0.18321661	3.0701492	21	11 11.5	19.7
128475 2004 PW_1	15.3	X	69.84185	228.88645	72.42391	4.29329	0.2017611	0.18472293	3.0534362	21	11 21.5	19.9
128476 2004 PE_3	15.0	X	49.41854	165.76101	117.16902	11.11886	0.0806590	0.17830142	3.1263159	21	9 21.7	19.4
128477 2004 PH_3	14.9	X	51.64769	256.66569	116.99685	11.04519	0.0989079	0.19139286	2.9820772	21	—	—
128478 2004 PU_3	14.7	X	347.45978	206.83134	129.16828	17.66947	0.0894789	0.17531317	3.1617415	21	8 27.2	18.7
128479 2004 PE_4	15.7	X	135.01108	200.31573	223.26634	10.99525	0.2089585	0.26827816	2.3809257	21	4 1.5	19.3
128480 2004 PK_4	15.8	X	18.60354	152.59421	224.89592	9.52861	0.1548395	0.24413668	2.5354051	21	12 26.9	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128481 2004 PE_6	16.1	X	345.81557	201.75753	207.37526	6.83110	0.2033621	0.24153836	2.5535555	21	12 20.9	18.5
128482 2004 PH_7	15.4	X	356.46287	218.67934	144.53275	5.08138	0.2167200	0.17772634	3.1330562	21	10 23.7	18.6
128483 2004 PV_8	17.0	X	232.66921	16.48249	356.26899	3.30011	0.1832573	0.27613682	2.3355357	21	4 25.9	20.8
128484 2004 PZ_9	16.3	X	51.86555	305.52961	290.09587	1.41284	0.1600809	0.23087594	2.6315822	21	8 3.9	19.5
128485 2004 PD_{10}	17.1	X	315.78163	219.08923	139.54526	7.34330	0.2132542	0.28862162	2.2676889	21	7 23.3	19.0
128486 2004 PB_{11}	16.2	X	225.16814	9.15411	231.25425	1.40503	0.1350643	0.25982366	2.4322988	21	—	—
128487 2004 PN_{11}	16.3	X	114.36460	5.15168	271.49871	2.13082	0.1088486	0.24654298	2.5188808	21	12 6.4	20.0
128488 2004 PX_{12}	15.6	X	50.92523	214.43700	129.43133	3.15109	0.1582430	0.18529182	3.0471831	21	12 15.5	19.8
128489 2004 PU_{13}	16.2	X	141.61448	346.54828	356.65199	0.98224	0.1928792	0.25817079	2.4426691	21	—	—
128490 2004 PW_{13}	14.6	X	283.72185	89.70346	329.93361	24.72227	0.2023267	0.17263386	3.1943712	21	8 22.1	19.0
128491 2004 PF_{15}	17.2	X	269.32850	302.67881	67.04917	3.75325	0.1718341	0.28148187	2.3058750	21	6 1.9	20.3
128492 2004 PH_{15}	15.0	X	78.66307	167.51940	123.33956	12.26766	0.0665602	0.18140056	3.0906059	21	11 5.9	19.6
128493 2004 PQ_{15}	16.1	X	281.96980	256.97578	133.44693	6.90658	0.3064977	0.22570709	2.6716071	21	6 27.7	19.9
128494 2004 PE_{16}	16.4	X	308.46200	177.70466	101.44188	5.16898	0.1270402	0.27620241	2.3351659	21	3 28.9	19.2
128495 2004 PP_{16}	14.9	X	7.93367	26.79872	308.52919	3.89193	0.1888833	0.17541775	3.1604847	21	10 1.4	18.5
128496 2004 PV_{16}	17.3	X	162.10585	78.68923	216.95020	3.35298	0.0717684	0.31492932	2.1395740	21	—	—
128497 2004 PA_{17}	14.9	X	63.09233	77.49378	309.80346	10.01180	0.0437399	0.19370098	2.9583406	21	—	—
128498 2004 PB_{17}	16.2	X	120.20640	213.80568	154.08817	9.31236	0.2602893	0.25650343	2.4532432	21	1 13.4	19.5
128499 2004 PH_{17}	15.8	X	138.05761	87.10707	292.51493	0.78652	0.0805163	0.20309023	2.8664434	21	2 4.4	20.0
128500 2004 PJ_{17}	16.2	X	313.32809	52.28959	280.26448	1.55911	0.0905159	0.22518887	2.6757042	21	6 27.6	19.3
128501 2004 PO_{17}	14.7	X	327.52420	225.07425	128.74491	12.22569	0.0623714	0.17367225	3.1816258	21	8 20.2	18.9
128502 2004 PD_{18}	16.7	X	238.86143	85.19363	266.48087	0.83108	0.2038120	0.27455589	2.3444927	21	4 4.3	20.5
128503 2004 PF_{18}	14.8	X	319.95689	192.51627	166.74709	7.35147	0.1185468	0.17119583	3.2122346	21	8 8.1	18.8
128504 2004 PP_{18}	16.7	X	341.52942	153.11456	166.50118	4.25873	0.1581873	0.28798573	2.2710258	21	7 23.9	18.5
128505 2004 PK_{19}	15.9	X	90.13293	274.70216	141.86531	7.05690	0.0916460	0.25976378	2.4326725	21	1 8.6	18.6
128506 2004 PF_{30}	15.7	X	151.57925	51.46366	338.43499	4.46735	0.2073191	0.20557537	2.8432955	21	3 14.2	20.4
128507 2004 PO_{31}	15.7	X	188.19168	266.69326	145.74281	7.53890	0.3095726	0.21438155	2.7648895	21	5 13.5	20.9
128508 2004 PJ_{33}	16.5	X	107.27691	249.76950	139.35681	4.98222	0.1478367	0.25854665	2.4403013	21	1 6.1	19.2
128509 2004 PS_{34}	15.2	X	41.87998	173.03583	137.60440	7.78726	0.1765456	0.17953924	3.1119299	21	10 29.0	19.4
128510 2004 PA_{35}	16.5	X	281.39284	204.92418	50.79758	4.83144	0.0615803	0.26900657	2.3766257	21	1 30.8	19.6
128511 2004 PO_{37}	15.6	X	76.52197	183.58678	176.69307	1.85476	0.1242395	0.19168251	2.9790724	21	—	—
128512 2004 PS_{37}	16.6	X	218.04853	168.17509	147.95332	3.34658	0.2328189	0.26741715	2.3860335	21	2 3.2	20.8
128513 2004 PU_{37}	15.1	X	179.44173	245.66226	137.24164	8.68873	0.2494782	0.20953660	2.8073472	21	4 2.8	20.1
128514 2004 PC_{38}	15.0	X	330.53281	17.08866	342.25452	3.15558	0.1343773	0.17200588	3.2021416	21	8 25.9	18.6
128515 2004 PR_{38}	17.1	X	202.17071	164.67161	173.76390	4.76227	0.1994952	0.26696931	2.3887011	21	2 16.4	20.9
128516 2004 PS_{38}	15.7	X	23.60927	276.56569	39.72474	0.52544	0.1711117	0.17725842	3.1385675	21	10 4.3	19.3
128517 2004 PX_{38}	16.5	X	314.68041	103.12507	286.41887	3.12567	0.1394197	0.23249298	2.6193658	21	9 13.0	19.2
128518 2004 PE_{39}	16.6	X	356.42678	1.63683	335.78764	6.16395	0.1358603	0.29133252	2.2535995	21	9 26.4	18.4
128519 2004 PV_{40}	16.5	X	6.40105	324.00754	314.27042	6.24192	0.1120773	0.28480873	2.2878832	21	7 11.6	18.5
128520 2004 PZ_{40}	16.3	X	233.86976	285.53788	54.48049	3.77703	0.2491107	0.27039184	2.3685015	21	3 17.3	20.3
128521 2004 PA_{41}	16.9	X	45.35729	185.57499	139.84849	6.84991	0.2135530	0.29704438	2.2246165	21	12 15.1	19.8
128522 2004 PD_{42}	14.8	X	278.96649	297.14406	150.69079	17.06313	0.1974100	0.17872620	3.1213603	21	9 24.5	19.1
128523 Johnmuir	17.1	X	171.70733	81.84488	291.42023	1.32639	0.2047498	0.26389874	2.4071944	21	3 5.8	21.0
128524 2004 PR_{43}	15.3	X	135.27628	328.33971	265.36015	2.63310	0.0447213	0.18281618	3.0746308	21	10 24.0	19.7
128525 2004 PD_{48}	15.5	X	249.61083	286.32920	141.40201	14.65291	0.0849363	0.23195131	2.6234421	21	8 8.5	19.0
128526 2004 PX_{48}	16.2	X	252.30200	20.17458	344.37018	7.40969	0.1108542	0.28076853	2.3097790	21	5 9.9	19.5
128527 2004 PV_{49}	16.0	X	180.51532	274.33172	111.06816	5.15573	0.2133862	0.21117150	2.7928386	21	4 4.9	20.8
128528 2004 PY_{49}	16.6	X	229.18121	270.41950	42.38496	3.10666	0.1977937	0.26934737	2.3746206	21	2 9.5	20.5
128529 2004 PT_{52}	15.8	X	83.31385	293.65843	38.46681	4.45250	0.2004798	0.18903704	3.0068016	21	—	—
128530 2004 PW_{52}	14.8	X	347.44812	36.72194	346.44585	16.42578	0.2308998	0.17754483	3.1351912	21	10 21.9	18.2
128531 2004 PY_{52}	16.5	X	214.59812	272.51339	69.99466	3.19520	0.1512760	0.26945010	2.3740169	21	3 5.9	20.3
128532 2004 PG_{56}	16.4	X	327.61189	59.70739	315.45509	10.66861	0.2008593	0.23267249	2.6180184	21	9 9.2	18.9
128533 2004 PS_{56}	16.1	X	109.32466	243.57806	167.93448	6.29594	0.1475119	0.26352383	2.4094770	21	2 6.4	18.9
128534 2004 PV_{57}	16.3	X	115.64735	6.19447	272.06810	2.82559	0.1357884	0.24667456	2.5179850	21	12 10.9	20.3
128535 2004 PY_{58}	15.7	X	229.66971	41.67903	286.19284	6.69194	0.0819066	0.21364874	2.7712082	21	3 6.3	20.1
128536 2004 PG_{59}	16.2	X	129.44779	171.36718	305.17523	6.23129	0.0821100	0.27858765	2.3218178	21	5 21.7	19.3
128537 2004 PS_{59}	16.1	X	43.45806	161.06375	168.91485	3.51439	0.0759857	0.24151018	2.5537542	21	11 18.1	19.4
128538 2004 PU_{60}	15.7	X	203.29874	209.52756	191.70814	3.01855	0.1982687	0.21581565	2.7526273	21	5 10.1	20.3
128539 2004 PD_{65}	17.1	X	319.54411	74.24824	295.83825	1.44279	0.1359099	0.28919256	2.2647033	21	9 1.2	19.0
128540 2004 PV_{65}	15.6	X	221.79209	61.51918	318.38875	8.30585	0.0712144	0.21741709	2.7390939	21	5 1.9	19.8
128541 2004 PC_{66}	16.2	X	119.17241	196.29572	171.81117	1.01112	0.2061466	0.25757518	2.4464333	21	1 4.6	19.2
128542 2004 PT_{66}	15.5	X	176.71725	258.26025	142.64804	22.96148	0.2583676	0.27201841	2.3590502	21	4 22.8	20.0
128543 2004 PO_{67}	13.9	X	327.32464	69.13291	276.75453	14.57825	0.1215311	0.17071958	3.2182060	21	7 30.2	18.0
128544 2004 PV_{67}	15.4	X	100.70033	240.37544	202.55468	6.46686	0.1140990	0.20894766	2.8126199	21	3 12.1	19.2
128545 2004 PJ_{68}	15.6	X	226.06737	101.69285	282.99955	10.53513	0.1032728	0.21838941	2.7309579	21	5 12.0	19.9
128546 2004 PF_{72}	14.9	X	2.27345	253.64704	117.86796	6.04998	0.1881237	0.18064481	3.0992199	21	11 13.5	18.4
128547 2004 PN_{72}	16.3	X	150.86744	301.22804	63.31728	1.99508	0.1655212	0.26342072	2.4101058	21	1 31.6	19.7
128548 2004 PY_{72}	15.1	X	288.92599	70.10350	328.89687	7.51863	0.1464454	0.17212472	3.2006675	21	8 11.4	19.4
128549 2004 PZ_{72}	15.5	X	111.05811	19.78423	333.59611	6.00754	0.1614534	0.25491974	2.4633932	21	—	—
128550 2004 PL_{73}	16.7	X	184.15030	233.15642	132.02276	5.85796	0.2384548	0.26734385	2.3864697	21	3 9.8	20.7
128551 2004 PW_{75}	14.8	X	151.06665	264.19130	301.84426	9.56474	0.0189931	0.17871899	3.1214442	21	10 2.7	19.5
128552 2004 PA_{77}	14.6	X	251.60287	124.71435	204.45715	6.38614	0.1286015	0.15940711	3.3687149	21	4 4.3	19.8
128553 2004 PF_{77}	16.1	X	103.58302	43.89001	210.38913	4.64274	0.1154000	0.24155349	2.5534489	21	10 28.4	19.8
128554 2004 PL_{79}	16.0	X	193.73232	219.99568	184.23614	7.07254	0.1086124	0.27505947	2.3416302	21	5 2.9	19.4
128555 2004 PO_{79}	16.6	X	266.93510	145.22807	289.80845	5.98102	0.0669984	0.29262662	2.2469505	21	9 16.5	19.2
128556 2004 PG_{83}	15.4	X	81.28909	183.49068	103.06348	3.75931	0.2478879	0.18284903	3.0742625	21	11 20.5	20.3
128557 2004 PX_{83}	16.5	X	231.52283	213.96469	143.22980	6.82601	0.1409223	0.27258136	2.3558011	21	4 10.9	20.1
128558 2004 PT_{85}	15.3	X	6.23973	326.27220	22.83803	15.09080	0.1251826	0.23149100	2.6269187	21	10 21.8	18.3
128559 2004 PJ_{88}	15.7	X	359.33202	135.11880	231.87385	2.12721	0.1868530	0.23335196	2.6129339	21	11 12.4	17.9
128560 2004 PL_{88}	16.7	X	41.75607	343.84010	341.22031	4.70542	0.1880891	0.29429977	2.2384261	21	12 4.7	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128561 2004 PK_{90}	15.1	X	24.96075	111.22976	249.17667	9.02668	0.0716300	0.18343052	3.0677619	21	11 19.4	19.2
128562 Murdin	15.7	X	276.94077	34.00830	240.77175	8.00402	0.1180110	0.21308963	2.7760536	21	2 16.2	19.9
128563 2004 PS_{90}	14.8	X	232.36628	342.32087	6.04029	13.42584	0.2276076	0.21181381	2.7871898	21	3 29.5	19.5
128564 2004 PX_{90}	16.1	X	304.97007	29.98323	357.45822	2.67090	0.2582091	0.22700739	2.6613953	21	8 5.9	18.7
128565 2004 PY_{92}	15.4	X	116.15620	233.32337	77.88624	6.95593	0.1279703	0.25134100	2.4867215	21	—	—
128566 2004 PZ_{92}	14.5	X	348.30179	248.75439	101.85954	12.50510	0.1428893	0.17641294	3.1485875	21	9 21.3	18.4
128567 2004 PJ_{93}	15.7	X	203.81969	294.31691	172.41222	4.82715	0.0777030	0.23190445	2.6237955	21	8 5.3	19.4
128568 2004 PK_{94}	16.3	X	86.23265	233.81927	166.84323	6.64143	0.1439319	0.25526050	2.4612003	21	—	—
128569 2004 PM_{97}	16.0	X	205.15357	345.24089	3.08438	2.04882	0.0909409	0.21147472	2.7901684	21	3 9.5	20.1
128570 2004 PV_{99}	16.1	X	155.42408	327.24315	45.28044	7.55892	0.1149732	0.26069556	2.4268725	21	2 13.3	19.6
128571 2004 PB_{100}	15.5	X	64.49589	214.58263	62.92295	15.45846	0.0868793	0.23687106	2.5869898	21	10 15.2	19.2
128572 2004 PN_{101}	14.2	X	38.25529	357.10750	1.30731	23.03977	0.1452042	0.17960005	3.1112274	21	12 10.7	18.9
128573 2004 PO_{101}	16.1	X	346.05559	117.20897	211.39873	6.41856	0.1405065	0.28506573	2.2865079	21	8 17.7	18.0
128574 2004 PX_{101}	14.9	X	11.79178	134.84478	276.58430	4.17036	0.1539374	0.18076157	3.0978852	21	—	—
128575 2004 PL_{102}	15.4	X	200.25615	71.68780	250.28883	5.15517	0.0567243	0.20474216	2.8510043	21	1 30.2	19.6
128576 2004 PB_{104}	14.5	X	269.25141	94.14967	1.81022	15.54084	0.2025158	0.16893818	3.2407897	21	9 18.8	19.1
128577 2004 PO_{104}	14.4	X	333.99313	250.46049	83.88845	25.97347	0.1278836	0.17251779	3.1958039	21	7 31.8	18.6
128578 2004 PW_{104}	15.1	X	75.62660	320.08878	46.52614	10.71388	0.0987415	0.19307896	2.9646909	21	—	—
128579 2004 PH_{105}	14.9	X	108.33461	31.67681	339.66825	23.97300	0.2320026	0.25766390	2.4458717	21	1 3.7	18.2
128580 2004 PT_{105}	14.8	X	58.90149	167.91615	247.75305	11.38281	0.1712335	0.19520329	2.9431425	21	—	—
128581 2004 PX_{105}	16.4	X	4.26379	226.05425	156.04256	7.58539	0.2011704	0.23722857	2.5843900	21	12 16.9	19.2
128582 2004 PC_{106}	15.8	X	331.15114	254.23382	68.42431	4.74300	0.2509156	0.22591661	2.6699550	21	6 22.3	18.2
128583 2004 PU_{108}	16.2	X	328.53930	263.28293	150.56860	12.03729	0.1817270	0.23651009	2.5896213	21	11 20.9	18.8
128584 2004 PR_{112}	15.8	X	267.44836	256.83174	86.35756	6.81439	0.0482216	0.22138475	2.7062687	21	5 16.4	19.4
128585 Alfredmaria	16.2	X	329.18766	290.40312	301.31442	3.48381	0.0809267	0.26735723	2.3863900	21	2 25.3	18.9
128586 Jeremias	14.5	X	325.98032	213.03245	193.84616	14.82409	0.0926454	0.17558570	3.1584690	21	10 23.8	18.4
128587 2004 QU_{1}	15.2	X	6.14821	123.30468	300.55485	14.45992	0.1837170	0.18583693	3.0412213	21	—	—
128588 2004 QW_{1}	15.2	X	182.64704	99.55717	291.82067	11.90669	0.0453528	0.21170093	2.7881804	21	3 30.6	19.5
128589 2004 QY_{1}	14.4	X	201.03676	201.64305	283.09263	11.34371	0.0372206	0.16916336	3.2379130	21	8 21.2	19.3
128590 2004 QO_{3}	16.2	X	245.56988	48.91966	286.13562	5.78954	0.1001856	0.27257422	2.3558422	21	3 24.5	19.7
128591 2004 QD_{4}	16.5	X	215.48428	330.19688	142.70597	7.26483	0.0496767	0.28667488	2.2779436	21	9 5.3	19.2
128592 2004 QM_{5}	16.1	X	171.94482	180.72135	89.62280	6.95265	0.0674153	0.25339364	2.4732741	21	—	—
128593 2004 QU_{6}	15.8	X	253.99778	173.07024	179.69873	3.43965	0.2076484	0.21741294	2.7391288	21	4 24.6	20.2
128594 2004 QJ_{8}	15.3	X	354.72951	8.60975	19.14985	14.24752	0.1573897	0.24129853	2.5552473	21	11 27.9	18.2
128595 2004 QK_{10}	14.7	X	29.44945	302.38525	114.32678	12.31286	0.0726515	0.19110284	2.9850936	21	—	—
128596 2004 QS_{10}	15.2	X	100.62298	242.96748	93.71709	10.61988	0.0791244	0.19096190	2.9865623	21	—	—
128597 2004 QA_{11}	16.3	X	299.42233	254.71903	124.74268	13.39048	0.1777673	0.22872676	2.6480412	21	7 28.7	19.3
128598 2004 QO_{11}	16.6	X	120.46358	241.73451	107.17313	7.86299	0.1369402	0.25528140	2.4610661	21	—	—
128599 2004 QP_{11}	16.8	X	10.99457	222.71481	106.02585	6.08393	0.1211364	0.29364694	2.2417425	21	10 16.2	19.0
128600 2004 QT_{11}	16.8	X	345.86750	193.09594	95.04249	6.59769	0.1325340	0.28451044	2.2894821	21	6 12.6	18.8
128601 2004 QS_{12}	14.9	X	101.52808	251.01086	86.86150	11.33905	0.0385395	0.19219019	2.9738239	21	—	—
128602 Careyparish	14.8	X	42.68363	108.47698	201.77381	15.32439	0.0717331	0.17873286	3.1212828	21	10 11.0	19.1
128603 2004 QP_{13}	15.0	X	20.18209	72.11089	278.69084	8.11325	0.0971176	0.18025117	3.1037303	21	10 31.9	19.2
128604 Markfisher	14.8	X	307.51130	62.71074	316.52575	19.02521	0.1775604	0.17068933	3.2185862	21	8 8.2	18.7
128605 2004 QF_{15}	15.6	X	100.74157	172.52032	300.21286	8.17438	0.1071976	0.21081986	2.7959434	21	4 15.6	19.7
128606 2004 QY_{17}	15.6	X	32.69160	38.60865	310.23778	13.19390	0.1838840	0.23617335	2.5920823	21	12 12.7	19.1
128607 Richhund	16.5	X	347.41386	145.23534	164.41096	1.99145	0.1172871	0.28194716	2.3033374	21	7 22.5	18.5
128608 Chucklove	17.0	X	286.43907	190.27749	162.47267	2.74466	0.0991447	0.28254343	2.3000957	21	6 12.8	19.7
128609 2004 QB_{19}	14.6	X	22.19099	350.52229	326.54130	8.21007	0.0822709	0.17435350	3.1733327	21	9 19.4	18.8
128610 Stasiahabenicht	14.6	X	274.35988	200.28247	248.81314	15.23333	0.0959041	0.17673839	3.1447210	21	9 25.4	19.2
128611 Paulnowak	15.6	X	351.66262	228.25251	158.43657	5.94023	0.2556304	0.23313122	2.6145830	21	12 5.5	17.8
128612 2004 QW_{21}	15.4	X	19.00873	29.87052	252.86569	4.06536	0.1525429	0.17201628	3.2020124	21	8 7.8	19.2
128613 2004 QB_{22}	14.4	X	326.33597	125.67366	283.86674	25.90840	0.1714539	0.17767896	3.1336131	21	10 9.3	18.7
128614 Juliabest	16.3	X	177.45125	298.83955	75.96676	3.74795	0.2413107	0.26578284	2.3958048	21	3 16.8	20.4
128615 Jimharris	16.8	X	75.28258	331.37933	352.20848	6.90747	0.1629707	0.30188953	2.2007499	21	—	—
128616 2004 QA_{25}	15.7	X	106.37557	331.59239	41.52605	22.68711	0.1041152	0.25829136	2.4419089	21	—	—
128617 2004 QB_{25}	16.8	X	180.21095	251.79560	64.14397	20.52910	0.0661439	0.37911278	1.8907050	21	—	—
128618 2004 QH_{25}	14.0	X	30.33076	63.29547	270.72619	12.18174	0.2328677	0.17366164	3.1817553	21	11 13.1	18.1
128619 2004 QN_{25}	15.0	X	248.56825	158.00933	278.72967	21.22304	0.0402011	0.22704559	2.6610968	21	8 15.3	19.0
128620 2004 QC_{26}	14.5	X	217.42004	213.49376	255.37650	25.03340	0.0587280	0.23181342	2.6244824	21	8 13.5	18.9
128621 2004 RD	15.7	X	340.67626	94.82670	359.37738	0.96802	0.1394876	0.18823242	3.0153641	21	—	—
128622 Rudiš	15.8	X	12.03236	37.60076	2.81244	0.52883	0.0784255	0.18530911	3.0469935	21	12 22.7	19.6
128623 2004 RP_{2}	17.2	X	129.33408	170.03480	232.76054	2.58903	0.1232058	0.26279257	2.4139447	21	2 17.7	20.3
128624 2004 RU_{3}	16.6	X	216.76713	216.16376	109.52957	7.35450	0.1150883	0.26803696	2.3823538	21	2 15.2	20.1
128625 2004 RO_{4}	15.0	X	124.35707	186.73834	99.46052	11.56863	0.0887360	0.18694071	3.0292385	21	12 17.8	19.7
128626 2004 RF_{7}	14.9	X	139.83178	185.22504	50.53145	10.57300	0.0301048	0.18079852	3.0974631	21	11 1.8	19.5
128627 Ottmarsheim	14.9	X	22.16342	32.35957	263.90531	4.59537	0.1433842	0.17180050	3.2046930	21	8 29.8	18.8
128628 2004 RX_{8}	15.9	X	262.70454	161.30938	180.66830	3.37630	0.2036673	0.21730289	2.7400536	21	4 19.8	20.1
128629 2004 RS_{10}	15.0	X	84.15602	29.04285	332.77658	12.19498	0.1353691	0.18915674	3.0055330	21	—	—
128630 2004 RM_{11}	15.6	X	334.57998	112.01244	313.19192	4.89655	0.1666668	0.18254619	3.0776616	21	11 28.8	19.1
128631 2004 RN_{11}	16.8	X	174.43358	125.92541	322.67680	6.69492	0.0642108	0.27937903	2.3174312	21	6 7.2	20.0
128632 2004 RT_{11}	14.1	X	187.56097	217.09524	338.39298	6.07063	0.0504484	0.12602782	3.9399596	21	10 26.9	19.9
128633 Queyras	14.4	X	235.16290	326.20394	41.56032	6.51411	0.0520268	0.15525195	3.4285567	21	5 10.6	19.4
128634 2004 RF_{13}	16.6	X	323.13690	355.22636	11.67007	4.18933	0.1653884	0.28855176	2.2680549	21	9 3.1	18.1
128635 2004 RE_{19}	16.5	X	95.19165	311.06148	141.86495	6.50204	0.0680807	0.26700517	2.3884873	21	3 3.9	19.3
128636 2004 RJ_{22}	16.1	X	192.98004	61.05432	348.91486	2.69055	0.1286600	0.21568321	2.7537541	21	5 10.9	20.4
128637 2004 RK_{22}	15.9	X	319.77191	328.81406	11.39714	1.91331	0.2187503	0.22734235	2.6587805	21	6 30.7	18.6
128638 2004 RT_{22}	16.5	X	128.35799	220.83143	147.54587	2.88317	0.2099546	0.25754096	2.4466500	21	1 16.9	19.6
128639 2004 RU_{22}	17.1	X	131.36621	40.74304	6.57999	1.43738	0.1704505	0.26325109	2.4111409	21	3 6.0	20.4
128640 2004 RZ_{22}	16.6	X	159.75536	233.38188	130.19629	1.49582	0.2280601	0.26205457	2.4184747	21	2 13.9	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128641 2004 RE_{25}	16.8	X	183.22536	251.17730	175.05471	2.86433	0.1432530	0.27593112	2.3366962	21	5 20.9	20.3
128642 2004 RK_{27}	16.5	X	332.92160	316.40525	119.16862	6.14460	0.2138345	0.24109603	2.5566779	21	—	—
128643 2004 RM_{30}	17.2	X	329.10572	102.43415	337.30327	8.30538	0.1555611	0.30133833	2.2034327	21	—	—
128644 2004 RW_{32}	17.0	X	104.15468	343.73985	64.90892	2.17576	0.1816660	0.25906448	2.4370483	21	2 3.5	19.8
128645 2004 RA_{35}	16.8	X	206.28520	244.94944	104.54833	4.55500	0.1198565	0.26829741	2.3808118	21	3 7.1	20.3
128646 2004 RT_{36}	15.5	X	238.51841	311.05385	99.83424	4.99895	0.0896259	0.22308375	2.6925106	21	7 2.7	19.4
128647 2004 RC_{39}	16.3	X	197.76283	316.78023	65.06462	0.70003	0.0847865	0.21330985	2.7741425	21	4 11.9	20.5
128648 2004 RT_{42}	15.1	X	346.29354	131.61278	265.40855	10.64699	0.1236007	0.18151534	3.0893029	21	11 10.6	19.0
128649 2004 RC_{44}	16.3	X	167.95037	175.69175	233.12808	5.29716	0.0932913	0.27081721	2.3660207	21	4 7.2	19.6
128650 2004 RN_{44}	15.2	X	359.89972	217.66494	242.25316	10.01680	0.3130167	0.18841448	3.0134214	21	—	—
128651 2004 RP_{44}	16.4	X	185.83519	221.83057	175.59888	6.26577	0.1160948	0.27335937	2.3513291	21	4 15.6	19.9
128652 2004 RJ_{45}	17.5	X	171.01847	305.63399	326.57559	2.70000	0.1681293	0.31167970	2.1544200	21	—	—
128653 2004 RT_{45}	15.4	X	32.27210	295.40203	32.15664	2.13402	0.1633798	0.17877222	3.1208246	21	10 31.3	19.4
128654 2004 RU_{47}	16.3	X	345.54585	254.94326	9.02478	1.52042	0.2611893	0.22288439	2.6941160	21	4 22.3	18.7
128655 2004 RD_{49}	16.9	X	3.81195	63.09633	0.73049	6.52839	0.1801780	0.24418876	2.5350446	21	—	—
128656 2004 RG_{49}	15.8	X	324.20822	159.13641	13.09207	6.32618	0.0827807	0.25842255	2.4410824	21	—	—
128657 2004 RN_{50}	16.5	X	243.81145	238.99972	162.30272	6.97678	0.1258468	0.28070414	2.3101322	21	6 21.4	19.8
128658 2004 RJ_{51}	16.3	X	197.44278	272.89442	51.68192	3.24736	0.2052191	0.26382538	2.4076406	21	1 29.2	20.2
128659 2004 RC_{52}	15.7	X	191.69462	304.52808	75.53816	2.50620	0.1373146	0.21075790	2.7964913	21	4 5.2	20.2
128660 2004 RH_{55}	16.5	X	280.08629	144.62941	127.27512	3.76808	0.1884591	0.27006118	2.3704344	21	2 3.9	20.1
128661 2004 RT_{55}	16.2	X	282.41567	227.63305	138.03670	5.21254	0.1301838	0.28201827	2.3029502	21	6 20.6	19.0
128662 2004 RW_{55}	15.1	X	119.50859	225.01955	60.12807	4.90239	0.1238898	0.18597979	3.0396637	21	12 12.9	19.8
128663 2004 RY_{55}	16.6	X	151.56966	263.51270	317.69405	7.10807	0.0888766	0.29885684	2.2156131	21	11 9.8	19.8
128664 2004 RJ_{56}	16.7	X	160.27222	275.30932	95.33322	4.00562	0.1932655	0.26244947	2.4160481	21	2 21.5	20.4
128665 2004 RK_{57}	15.5	X	160.87414	268.79618	105.75303	3.89213	0.2130474	0.20423335	2.8557375	21	3 6.9	20.3
128666 2004 RE_{59}	16.2	X	283.49257	241.82997	146.92375	7.34379	0.1484687	0.28454708	2.2892855	21	7 22.8	18.9
128667 2004 RL_{59}	17.0	X	35.74536	183.62390	144.94048	5.73572	0.1496636	0.29559374	2.2318888	21	11 28.1	19.6
128668 2004 RP_{60}	16.9	X	28.31337	299.85304	335.61936	3.64512	0.1624687	0.28827008	2.2695321	21	8 27.5	18.7
128669 2004 RA_{61}	15.9	X	340.80160	225.07308	103.91324	4.42205	0.2388483	0.22848926	2.6498758	21	7 30.4	17.9
128670 2004 RB_{61}	15.5	X	290.56968	4.41325	22.26931	11.21666	0.1326297	0.22634074	2.6666185	21	8 6.2	19.0
128671 2004 RG_{61}	16.8	X	161.81924	183.69553	198.66060	2.91838	0.1520252	0.26461608	2.4028421	21	3 3.5	20.4
128672 2004 RK_{61}	16.8	X	1.22041	309.22627	306.06849	2.33142	0.0449735	0.27847440	2.3224473	21	5 25.0	19.4
128673 2004 RM_{61}	15.9	X	257.00493	193.79917	188.48687	4.85492	0.0774081	0.22206421	2.7007455	21	6 18.8	19.7
128674 2004 RJ_{62}	16.7	X	241.70673	47.46178	256.78124	0.83483	0.1894107	0.26847153	2.3797823	21	2 8.4	20.5
128675 2004 RU_{62}	16.2	X	324.68003	82.81450	288.23997	1.29035	0.1076728	0.23079625	2.6321879	21	9 8.1	19.1
128676 2004 RC_{63}	16.1	X	210.23588	89.59302	345.15223	6.87189	0.0667955	0.28068837	2.3102187	21	7 3.8	19.3
128677 2004 RD_{63}	15.2	X	43.62857	347.36954	334.28941	2.23663	0.1205430	0.17866983	3.1220168	21	11 1.7	19.5
128678 2004 RW_{64}	16.6	X	255.37265	285.09462	359.61038	2.28111	0.1692526	0.26755648	2.3852051	21	1 29.7	20.2
128679 2004 RB_{65}	16.3	X	202.17185	55.13516	1.66189	6.36903	0.0915175	0.27629464	2.3346462	21	5 26.3	19.6
128680 2004 RF_{69}	15.2	X	88.01544	235.28001	89.51803	2.22039	0.1535792	0.18556212	3.0442232	21	12 31.5	20.0
128681 2004 RS_{75}	15.5	X	152.28578	34.41913	26.09502	6.58918	0.0921087	0.20880972	2.8138584	21	4 12.4	19.7
128682 2004 RT_{75}	15.5	X	15.64002	284.86913	84.58387	2.24590	0.1790759	0.17868102	3.1218864	21	11 30.3	19.3
128683 2004 RJ_{77}	14.7	X	11.86440	195.03589	160.13072	5.70369	0.1844094	0.17617650	3.1514039	21	11 7.5	18.4
128684 2004 RN_{77}	15.7	X	135.50906	325.61180	180.63021	24.41508	0.1887948	0.27609387	2.3357779	21	7 17.9	19.9
128685 2004 RT_{79}	14.2	X	23.62629	265.14952	101.26280	26.96550	0.1958885	0.17709550	3.1404921	21	12 14.1	18.3
128686 2004 RE_{80}	16.4	X	54.92410	234.18603	174.99169	3.58571	0.0827244	0.25397142	2.4695215	21	—	—
128687 2004 RV_{81}	17.1	X	72.90224	107.96584	218.36652	2.98370	0.1759434	0.30047021	2.2076748	21	—	—
128688 2004 RT_{82}	16.3	X	101.89511	282.90096	161.21365	6.86990	0.0849134	0.26448087	2.4036609	21	3 3.5	19.1
128689 2004 RE_{83}	16.0	X	105.10678	210.67583	17.15787	2.53429	0.1341995	0.23328895	2.6134043	21	9 27.6	19.8
128690 2004 RZ_{85}	15.3	X	226.78374	149.03380	162.80682	9.33783	0.1518408	0.21218343	2.7839520	21	2 12.1	19.9
128691 2004 RL_{89}	15.7	X	253.37981	160.63682	285.54097	13.08040	0.1765315	0.23229457	2.6208571	21	8 19.8	19.7
128692 2004 RO_{90}	17.2	X	106.53052	357.89820	278.74391	3.40375	0.1081680	0.30193186	2.2005442	21	12 7.0	20.2
128693 2004 RZ_{92}	15.2	X	310.63625	125.30327	308.40247	14.93896	0.2495526	0.17798719	3.1299944	21	10 7.5	19.0
128694 2004 RD_{93}	15.8	X	177.41456	138.59811	276.21138	7.86581	0.0773562	0.21553943	2.7549786	21	4 28.4	20.0
128695 2004 RH_{97}	14.7	X	288.22833	136.03484	300.32864	9.19594	0.1127971	0.17482613	3.1676108	21	9 26.8	19.1
128696 2004 RV_{97}	16.1	X	27.78775	51.41205	230.13161	3.10608	0.1078553	0.23016896	2.6369681	21	8 20.6	19.2
128697 2004 RW_{97}	17.1	X	351.43506	15.01660	321.54151	5.41598	0.1060118	0.29039341	2.2584555	21	9 12.6	19.2
128698 2004 RD_{99}	16.2	X	36.33251	89.90424	208.15102	3.31637	0.1484902	0.23410236	2.6073471	21	10 4.5	19.1
128699 2004 RX_{99}	16.4	X	5.61082	337.71911	309.64783	5.67884	0.1193163	0.28565724	2.2833504	21	7 25.1	18.1
128700 2004 RA_{100}	16.2	X	188.35622	76.61621	317.99574	7.24100	0.2206388	0.21148334	2.7900926	21	4 16.3	21.1
128701 2004 RN_{100}	16.2	X	122.11601	297.43763	299.91197	2.79171	0.0980824	0.23759655	2.5817209	21	10 23.5	19.9
128702 2004 RN_{101}	16.7	X	40.34861	335.47570	328.30064	5.80115	0.1444977	0.29361152	2.2419228	21	10 24.9	19.2
128703 2004 RB_{103}	15.8	X	255.25668	348.39158	309.85315	2.97750	0.0783481	0.20983325	2.8047006	21	2 28.7	19.9
128704 2004 RA_{104}	15.9	X	296.96240	77.39199	266.81883	4.09019	0.0599455	0.22227429	2.6990436	21	6 23.8	19.4
128705 2004 RE_{104}	14.5	X	93.75276	35.80576	267.03764	6.83541	0.0787531	0.18329323	3.0692936	21	12 3.8	18.9
128706 2004 RK_{104}	16.4	X	246.49052	10.80725	280.19628	4.98259	0.1385174	0.26595852	2.3947496	21	1 29.3	20.0
128707 2004 RQ_{104}	14.8	X	336.41406	42.45326	342.49536	12.28424	0.1211424	0.17468530	3.1693131	21	10 5.3	18.7
128708 2004 RT_{104}	14.7	X	35.06341	45.14160	328.79176	8.94063	0.0892744	0.18341882	3.0678924	21	12 22.3	18.9
128709 2004 RU_{105}	14.8	X	340.13243	248.56709	255.05751	8.94159	0.0937477	0.19385226	2.9568013	21	—	—
128710 2004 RF_{106}	16.7	X	226.81991	358.53380	345.94536	6.74005	0.1384770	0.26908499	2.3761639	21	3 17.8	20.2
128711 2004 RM_{107}	15.6	X	78.05316	39.87446	6.79019	1.62422	0.1033119	0.19520756	2.9430996	21	—	—
128712 2004 RV_{107}	16.4	X	285.48071	117.50360	341.90813	5.61014	0.0660196	0.29611118	2.2292880	21	11 23.6	18.7
128713 2004 RJ_{112}	14.8	X	68.21962	52.86466	306.33948	18.60925	0.3071969	0.18539208	3.0460844	21	—	—
128714 2004 RU_{112}	14.7	X	232.65911	26.58930	272.28735	15.83468	0.0408760	0.20279844	2.8691922	21	2 3.4	19.2
128715 2004 RA_{115}	16.7	X	205.06619	285.96509	117.02036	5.65070	0.0970805	0.27542881	2.3395364	21	5 14.2	20.1
128716 2004 RP_{118}	16.4	X	171.66105	307.33625	342.58227	1.31807	0.0132890	0.19507710	2.9444116	21	—	—
128717 2004 RT_{121}	17.2	X	49.03318	6.20053	106.58880	1.58277	0.0862310	0.26195878	2.4190643	21	1 19.5	19.6
128718 2004 RD_{124}	15.4	X	345.45251	18.88355	55.05779	8.35317	0.2341274	0.18404192	3.0609639	21	—	—
128719 2004 RJ_{124}	15.9	X	227.14507	285.13601	107.04152	12.78344	0.1380663	0.21866226	2.7286856	21	5 25.6	20.3
128720 2004 RY_{124}	17.2	X	145.92547	332.60072	185.56811	4.31365	0.1236171	0.28536214	2.2849243	21	8 11.5	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128721 2004 RU_{136}	15.9	X	354.32997	295.08850	297.53541	3.68147	0.0095964	0.21294280	2.7773295	21	4 18.8	19.6
128722 2004 RT_{137}	15.2	X	247.48633	30.94281	259.18455	10.92654	0.0483374	0.20939638	2.8086003	21	2 8.9	19.5
128723 2004 RG_{140}	14.9	X	123.99589	144.05855	55.85651	5.85223	0.0073108	0.16959003	3.2324800	21	8 29.8	19.5
128724 2004 RK_{140}	15.4	X	223.53985	327.79026	48.49864	6.87310	0.0405052	0.21530546	2.7569741	21	5 5.2	19.4
128725 2004 RL_{140}	15.1	X	9.01295	289.79884	106.19740	5.93890	0.1594572	0.18159191	3.0884344	21	12 21.5	18.9
128726 2004 RN_{143}	15.7	X	277.51841	243.55260	104.94437	6.01463	0.1258568	0.21936523	2.7228529	21	5 25.0	19.6
128727 2004 RR_{143}	16.7	X	133.93979	227.58767	156.75283	4.12390	0.1771888	0.25890867	2.4380259	21	2 8.1	19.9
128728 2004 RB_{144}	15.6	X	236.35154	251.82370	138.98249	8.29114	0.0694926	0.21731291	2.7399693	21	6 7.1	19.6
128729 2004 RC_{144}	14.9	X	17.81902	278.57808	146.18712	7.79609	0.1586809	0.18521325	3.0480449	21	—	—
128730 2004 RE_{150}	15.6	X	159.87323	263.15408	164.04913	9.18650	0.1436652	0.21056988	2.7981557	21	5 4.6	20.1
128731 2004 RX_{151}	15.7	X	344.71212	213.87217	147.40330	5.89186	0.2541292	0.22944824	2.6424872	21	10 7.2	17.5
128732 2004 RT_{152}	16.1	X	209.18939	33.79478	278.88666	6.17645	0.0991649	0.26350540	2.4095893	21	1 20.3	19.6
128733 2004 RV_{152}	14.6	X	255.04048	216.70625	315.28126	14.24213	0.1321124	0.18849628	3.0125495	21	12 15.0	18.9
128734 2004 RP_{153}	14.9	X	307.82343	255.71382	257.20799	8.60124	0.0355206	0.19324854	2.9629562	21	—	—
128735 2004 RT_{153}	15.3	X	341.12470	245.35690	292.55103	7.27010	0.0243144	0.20299622	2.8673283	21	1 23.5	19.2
128736 2004 RJ_{156}	16.6	X	147.90469	26.37210	306.11469	4.32752	0.1964493	0.25640271	2.4538856	21	—	—
128737 2004 RS_{156}	15.2	X	49.16111	41.70105	249.25322	3.52926	0.2125988	0.17691668	3.1426078	21	10 14.9	19.3
128738 2004 RB_{157}	16.3	X	87.48856	262.74097	199.46394	4.26764	0.0895515	0.26425617	2.4050233	21	3 6.7	19.2
128739 2004 RD_{159}	17.0	X	252.11091	219.11535	304.16363	3.56552	0.0763674	0.30360135	2.1924696	21	—	—
128740 2004 RW_{159}	16.5	X	168.02652	235.67089	334.80234	7.65605	0.0787637	0.29663417	2.2266669	21	11 14.3	19.6
128741 2004 RE_{161}	14.9	X	353.23889	70.95449	350.10743	15.15436	0.0839658	0.18005500	3.1059843	21	12 21.3	19.2
128742 2004 RB_{162}	15.1	X	58.13540	102.78726	216.74271	12.56450	0.1166124	0.18252327	3.0779193	21	11 19.0	19.4
128743 2004 RM_{163}	14.6	X	325.30044	119.52972	342.55704	26.50220	0.1739089	0.17901165	3.1180412	21	—	—
128744 2004 RG_{169}	16.4	X	296.38513	339.94869	284.67174	5.97380	0.1004036	0.26986794	2.3715658	21	2 20.5	19.6
128745 2004 RO_{170}	14.8	X	131.11508	18.00618	253.58251	9.76136	0.1039005	0.18464380	3.0543084	21	12 7.2	19.5
128746 2004 RJ_{176}	16.4	X	142.93859	351.44576	281.90562	7.14612	0.1175883	0.30638963	2.1791477	21	—	—
128747 2004 RL_{176}	16.1	X	327.21755	112.98099	312.25007	11.73756	0.1745438	0.23857806	2.5746353	21	11 29.9	18.8
128748 2004 RS_{180}	16.5	X	67.92554	241.99849	301.80197	6.12458	0.0567858	0.27657523	2.3330669	21	5 27.3	19.2
128749 2004 RG_{181}	15.8	X	227.64304	203.87943	211.19544	6.99975	0.0889594	0.28008559	2.3135322	21	6 24.4	19.1
128750 2004 RX_{181}	14.9	X	41.25277	95.95118	289.51507	5.47350	0.1186776	0.18608302	3.0385395	21	—	—
128751 2004 RL_{182}	15.9	X	229.36894	116.04118	236.23304	4.13375	0.1782761	0.21290105	2.7776926	21	4 1.9	20.5
128752 2004 RA_{183}	16.3	X	57.50500	79.38758	258.35645	3.37827	0.1215779	0.24141275	2.5544412	21	12 21.5	19.9
128753 2004 RE_{183}	15.1	X	86.93003	65.96960	343.58698	10.95577	0.1480632	0.19640596	2.9311155	21	1 21.9	18.9
128754 2004 RQ_{185}	14.8	X	43.12229	86.84518	215.30051	8.31509	0.0679357	0.17439224	3.1728627	21	9 28.9	19.2
128755 2004 RD_{187}	15.5	X	225.97610	139.87614	324.68606	12.31829	0.1336843	0.22646730	2.6656250	21	8 22.5	19.6
128756 2004 RE_{188}	16.6	X	120.98529	308.41984	309.48580	5.81956	0.1593912	0.29917954	2.2140196	21	11 28.2	20.0
128757 2004 RJ_{189}	16.3	X	355.66058	324.74332	273.60975	5.75013	0.0679952	0.27292039	2.3538497	21	4 16.9	18.9
128758 2004 RR_{190}	14.4	X	77.67225	7.58370	329.24124	10.20494	0.0873797	0.18358690	3.0660195	21	12 28.7	19.0
128759 2004 RT_{190}	15.0	X	157.90327	162.61194	244.12405	10.35179	0.0802112	0.20690454	2.8311054	21	3 27.4	19.3
128760 2004 RU_{190}	15.0	X	259.83317	148.76324	304.78034	9.94008	0.0823949	0.17094389	3.2153900	21	9 15.5	19.7
128761 2004 RW_{190}	16.7	X	241.79924	125.32207	232.15885	1.46091	0.2228659	0.27386981	2.3484065	21	4 13.2	20.5
128762 2004 RZ_{190}	15.2	X	242.32341	121.73868	240.24383	10.49958	0.0615794	0.21430583	2.7655408	21	5 6.5	19.1
128763 2004 RF_{191}	15.3	X	306.01520	24.65190	322.23817	9.51276	0.1529523	0.22303437	2.6929080	21	6 27.8	18.6
128764 2004 RJ_{191}	16.4	X	77.29889	347.74063	288.25573	4.71830	0.1975588	0.29562650	2.2317240	21	11 11.0	19.7
128765 2004 RQ_{191}	15.2	X	45.30396	77.69780	330.50800	8.97384	0.1258263	0.18802252	3.0176079	21	—	—
128766 2004 RF_{192}	16.5	X	206.04885	26.62067	343.34961	5.92226	0.1293176	0.26929445	2.3749317	21	3 29.3	20.0
128767 2004 RL_{192}	14.8	X	33.48691	96.49418	287.97106	8.58426	0.1258923	0.18267122	3.0762571	21	—	—
128768 2004 RP_{192}	14.5	X	296.31187	145.03140	256.99337	9.62028	0.0456746	0.16880413	3.2425051	21	9 2.6	19.2
128769 2004 RJ_{193}	14.6	X	89.91495	65.10271	272.93032	8.43664	0.0821738	0.18514719	3.0487698	21	—	—
128770 2004 RY_{193}	16.0	X	291.00691	88.21134	242.76638	3.84778	0.1641649	0.21938499	2.7226894	21	5 11.9	19.7
128771 2004 RB_{194}	15.9	X	239.40697	119.85935	221.75361	5.90953	0.1413826	0.27088309	2.3656371	21	3 25.5	19.6
128772 2004 RX_{194}	16.2	X	37.24238	25.95135	302.02439	7.31514	0.1817826	0.29393816	2.2402616	21	12 1.7	19.0
128773 2004 RA_{195}	15.8	X	332.18620	351.79066	318.40617	3.39787	0.2012278	0.22359341	2.6884175	21	6 12.7	18.5
128774 2004 RH_{195}	15.7	X	59.18150	314.74661	203.55013	21.92903	0.0974922	0.26734294	2.3864751	21	4 12.4	18.2
128775 2004 RL_{196}	14.3	X	95.23358	339.90889	269.96075	7.66035	0.0962071	0.17387744	3.1791222	21	9 30.2	19.2
128776 2004 RZ_{196}	15.7	X	336.44973	4.82229	281.32810	8.03473	0.2006684	0.22075837	2.7113854	21	5 14.6	18.7
128777 2004 RX_{197}	15.6	X	299.42449	341.54636	297.27562	2.78117	0.0497630	0.21138540	2.7909543	21	4 1.2	19.4
128778 2004 RP_{200}	14.6	X	325.46133	120.91124	256.75691	16.30229	0.1989982	0.22580576	2.6708287	21	9 1.2	17.7
128779 2004 RQ_{200}	14.9	X	21.72278	292.85912	18.93229	13.00304	0.1910182	0.22788551	2.6545541	21	10 6.8	17.6
128780 2004 RE_{201}	14.4	X	45.54243	344.81953	34.42518	13.14401	0.2495633	0.17988267	3.1079677	21	—	—
128781 2004 RN_{203}	15.8	X	188.04395	350.08938	20.46023	1.84367	0.0512075	0.20630325	2.8366037	21	3 18.6	19.8
128782 2004 RP_{206}	14.8	X	34.61726	34.87247	279.97004	15.02514	0.0479041	0.17817222	3.1278270	21	9 24.7	19.4
128783 2004 RH_{207}	15.6	X	280.61579	31.04610	238.36547	13.19622	0.1688414	0.21236990	2.7823221	21	2 6.3	20.1
128784 2004 RN_{212}	14.8	X	296.87744	347.28495	265.62989	16.63751	0.0766735	0.20851300	2.8165273	21	2 14.0	19.2
128785 2004 RE_{213}	15.0	X	354.78997	89.86623	302.62188	14.71660	0.2182051	0.17750628	3.1356451	21	11 24.7	18.6
128786 2004 RN_{213}	15.4	X	41.71497	37.13026	302.70770	12.84308	0.1583532	0.23846864	2.5754228	21	12 9.3	19.0
128787 2004 RS_{213}	15.4	X	355.55553	42.03412	288.49724	12.20213	0.2110851	0.22990142	2.6390135	21	9 2.9	18.0
128788 2004 RS_{214}	14.7	X	36.34582	80.60565	254.97056	10.19011	0.0946624	0.17842905	3.1248249	21	11 4.8	18.9
128789 2004 RE_{216}	15.5	X	219.19800	20.47791	318.64702	12.64035	0.2170032	0.26777403	2.3839131	21	2 28.7	19.6
128790 2004 RP_{216}	15.3	X	327.95632	17.08306	279.93528	11.57438	0.1290744	0.22011955	2.7166288	21	5 25.8	18.7
128791 2004 RG_{218}	15.4	X	256.01354	140.94227	278.99850	11.96350	0.0747385	0.22386126	2.6862726	21	8 4.2	19.1
128792 2004 RM_{218}	15.0	X	9.99412	193.44307	275.52781	10.37190	0.2087151	0.18941083	3.0028445	21	—	—
128793 2004 RS_{219}	16.0	X	9.45887	38.69951	317.27662	11.14030	0.1935730	0.23436893	2.6053697	21	11 12.8	19.0
128794 2004 RE_{221}	14.5	X	275.64236	118.93491	358.70529	19.71231	0.1875710	0.17335753	3.1854753	21	10 18.2	19.0
128795 2004 RG_{222}	15.8	X	224.81433	212.98585	136.42515	4.26716	0.1041151	0.21038462	2.7997981	21	3 31.9	20.1
128796 2004 RY_{222}	16.2	X	323.97319	192.97708	87.18848	9.39189	0.1841739	0.27795601	2.3253339	21	4 15.5	18.9
128797 2004 RH_{223}	16.1	X	79.09909	103.49897	191.43792	1.37598	0.1507958	0.23685242	2.5871255	21	11 25.2	19.8
128798 2004 RJ_{223}	16.2	X	63.86949	171.49520	157.15525	2.59167	0.1443144	0.23946680	2.5682611	21	12 19.9	19.9
128799 2004 RS_{225}	16.4	X	209.66713	9.31884	347.16049	0.94507	0.1978097	0.26804651	2.3822972	21	3 17.3	20.1
128800 2004 RH_{231}	16.1	X	41.74934	251.14543	4.71525	2.67203	0.0243356	0.22196066	2.7015854	21	7 28.7	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128801 2004 RZ_{233}	16.8	X	187.21880	221.00180	23.64378	5.71937	0.0627729	0.30394994	2.1907930	21	—	—
128802 2004 RE_{234}	15.4	X	257.02348	341.80899	29.68361	6.66452	0.0512179	0.21748935	2.7384872	21	6 7.2	19.2
128803 2004 RF_{235}	16.4	X	139.94410	243.50456	201.23742	6.09908	0.0377337	0.27063219	2.3670990	21	4 17.4	19.2
128804 2004 RM_{247}	15.5	X	189.50111	201.44624	195.73821	25.07050	0.2032989	0.27241237	2.3567753	21	4 20.9	19.4
128805 2004 RK_{250}	17.1	X	295.61208	334.42883	355.55999	3.04166	0.1902507	0.27832840	2.3232594	21	5 7.3	19.8
128806 2004 RS_{250}	15.4	X	281.87350	44.49038	357.00972	13.74199	0.1419062	0.22247531	2.6974175	21	8 12.5	19.0
128807 2004 RC_{255}	15.6	X	280.10108	306.93113	122.72145	14.07561	0.1398940	0.23008183	2.6376338	21	9 18.7	19.1
128808 2004 RK_{255}	15.5	X	320.02828	206.57229	121.51269	14.91630	0.1724624	0.22404520	2.6848021	21	6 21.7	18.7
128809 2004 RP_{255}	15.0	X	358.93354	251.22381	135.92255	15.67572	0.1150406	0.17821455	3.1273316	21	11 23.6	19.2
128810 2004 RR_{255}	15.4	X	293.78157	341.87362	56.55717	15.55443	0.1006029	0.22804869	2.6532876	21	9 6.5	19.0
128811 2004 RV_{255}	14.6	X	359.86672	233.79825	126.13516	16.25859	0.2037437	0.17444788	3.1721881	21	10 29.8	18.4
128812 2004 RW_{255}	15.9	X	135.71594	193.41704	92.49531	13.66272	0.1335595	0.24584813	2.5236247	21	—	—
128813 2004 RH_{288}	16.7	X	204.16024	275.06212	84.78964	2.20078	0.2030555	0.26588141	2.3952126	21	3 18.3	20.5
128814 2004 RJ_{288}	15.6	X	267.15041	275.94327	131.75303	2.62461	0.0507206	0.22252370	2.6970265	21	8 9.7	19.2
128815 2004 RK_{288}	15.9	X	305.20742	263.43187	151.29258	0.23391	0.1776941	0.17004930	3.2266571	21	9 20.1	19.8
128816 2004 RX_{290}	15.6	X	40.62112	47.18731	331.33847	4.41555	0.1317087	0.18284937	3.0742586	21	—	—
128817 2004 RE_{291}	16.0	X	317.08242	242.26713	205.60255	6.87159	0.1630372	0.24201955	2.5501697	21	12 15.3	18.4
128818 2004 RH_{294}	14.9	X	116.45924	30.24889	292.99263	8.25446	0.0803681	0.18384700	3.0631271	21	—	—
128819 2004 RX_{295}	16.6	X	106.34943	161.93559	345.69744	5.25701	0.0772844	0.27595272	2.3365743	21	6 4.1	19.7
128820 2004 RO_{303}	16.5	X	40.11363	6.27604	227.80480	6.65022	0.1702167	0.22523981	2.6753007	21	7 12.5	19.5
128821 2004 RC_{306}	14.8	X	257.52769	289.51534	181.83074	16.48825	0.2410211	0.17102015	3.2144341	21	9 17.3	19.6
128822 2004 RK_{306}	16.3	X	22.82360	208.61270	136.85821	5.62495	0.1851668	0.29273278	2.2464072	21	12 7.8	18.7
128823 2004 RS_{307}	16.2	X	206.57770	126.41739	315.09740	1.92685	0.1709903	0.21946681	2.7220127	21	7 2.4	20.6
128824 2004 RA_{308}	14.6	X	345.80274	182.35787	217.20690	10.54802	0.1807833	0.17618146	3.1513447	21	11 16.3	18.0
128825 2004 RS_{308}	16.1	X	322.14892	23.45167	306.39619	5.98153	0.1318412	0.28251375	2.3002568	21	7 3.1	18.3
128826 2004 RP_{310}	16.9	X	188.72454	64.34789	235.95820	1.24291	0.1817855	0.25721426	2.4487213	21	—	—
128827 2004 RT_{310}	16.7	X	146.59613	38.46261	351.48182	0.73762	0.1734449	0.26099489	2.4250166	21	2 28.9	20.1
128828 2004 RW_{310}	16.7	X	190.88346	193.45078	196.21867	2.30783	0.1902720	0.26806199	2.3822055	21	4 11.6	20.5
128829 2004 RQ_{313}	15.9	X	117.81915	189.60165	184.31052	1.85659	0.0914246	0.19685968	2.9266101	21	1 7.2	19.8
128830 2004 RZ_{313}	16.4	X	19.40649	319.61872	7.59587	2.44757	0.1258344	0.23379804	2.6096092	21	10 14.6	19.2
128831 2004 RC_{315}	16.3	X	128.84061	319.12262	157.14171	6.15829	0.0351367	0.27417981	2.3466361	21	5 17.8	19.3
128832 2004 RQ_{321}	16.0	X	28.16116	271.32775	210.32816	5.59029	0.0691100	0.25717748	2.4489547	21	—	—
128833 2004 RU_{322}	14.8	X	226.58845	192.51332	319.74252	8.60285	0.0167154	0.17790825	3.1309201	21	10 27.9	19.4
128834 2004 RT_{323}	15.6	X	15.28838	5.69274	283.83044	5.86363	0.0245423	0.22353684	2.6888710	21	8 4.1	19.0
128835 2004 RC_{324}	14.8	X	339.88855	176.82558	243.20749	8.45418	0.0709136	0.17854186	3.1235084	21	11 29.6	18.8
128836 2004 RG_{324}	14.7	X	324.33674	126.23420	319.54573	9.47965	0.0701312	0.17932877	3.1143643	21	12 8.7	18.9
128837 2004 RP_{332}	15.4	X	181.95690	341.70845	92.99460	14.83053	0.1843301	0.21370228	2.7707453	21	6 3.3	20.1
128838 2004 RS_{332}	15.3	X	207.54033	47.00470	99.20285	14.77969	0.0523258	0.23126573	2.6286243	21	10 11.9	19.3
128839 2004 RV_{332}	15.6	X	242.68231	316.24257	111.39531	15.68822	0.1167162	0.22222709	2.6994258	21	7 27.0	19.4
128840 2004 RH_{333}	15.6	X	249.33743	288.38548	87.67077	5.78621	0.1601670	0.21916381	2.7245210	21	5 23.6	19.8
128841 2004 RA_{334}	16.0	X	276.99452	262.22488	140.93081	13.39459	0.2692910	0.22567105	2.6718915	21	7 13.6	19.9
128842 2004 RU_{338}	15.3	X	347.49336	265.33728	139.63772	22.49169	0.0836864	0.23653434	2.5894443	21	12 10.2	18.9
128843 2004 RH_{341}	14.4	X	215.70063	209.06961	295.24527	15.90935	0.0732306	0.17344938	3.1843506	21	9 23.7	19.4
128844 2004 SW_{4}	15.8	X	342.93681	343.62341	328.48401	2.81530	0.0847553	0.22232152	2.6986613	21	7 18.4	18.8
128845 2004 SV_{8}	15.9	X	104.65901	179.92232	206.72593	2.10311	0.1075067	0.19657379	2.9294469	21	1 8.5	19.7
128846 2004 ST_{10}	14.7	X	333.96564	293.79010	75.61111	10.43384	0.0877122	0.17415016	3.1758024	21	9 22.6	18.9
128847 2004 SM_{11}	15.6	X	274.99001	325.47864	114.37434	13.12424	0.1645103	0.23140739	2.6275515	21	9 22.0	19.1
128848 2004 SY_{11}	15.8	X	97.64453	207.96696	82.27342	14.61628	0.1290010	0.24195005	2.5506580	21	12 7.4	19.6
128849 2004 SM_{14}	15.7	X	297.00489	324.40928	113.28903	9.36189	0.1262819	0.23419689	2.6066454	21	10 29.2	18.8
128850 2004 SO_{14}	15.9	X	14.73019	280.35719	64.25606	9.90831	0.1288997	0.23477975	2.6023295	21	11 3.4	18.8
128851 2004 SB_{15}	15.0	X	258.32655	5.80770	83.90581	8.43365	0.1447815	0.16949288	3.2337150	21	9 9.0	19.8
128852 2004 SF_{16}	15.8	X	257.65362	286.16852	88.32521	7.62287	0.0389780	0.22031920	2.7149874	21	6 14.7	19.6
128853 2004 SH_{16}	16.1	X	297.57974	203.21796	111.25161	7.94421	0.1324289	0.27783782	2.3259934	21	5 2.2	19.0
128854 2004 SL_{16}	14.9	X	15.80136	314.34792	113.06623	9.71029	0.2144006	0.18673099	3.0315061	21	—	—
128855 2004 SU_{17}	15.5	X	231.78438	339.78332	134.95146	13.57022	0.1607320	0.22868183	2.6483880	21	9 11.8	19.5
128856 2004 SD_{18}	14.7	X	90.76724	281.88668	66.60936	13.19798	0.1062859	0.18885270	3.0087580	21	—	—
128857 2004 SV_{19}	16.3	X	35.78113	343.86612	304.87286	8.61292	0.1298010	0.28605878	2.2812131	21	9 19.8	18.9
128858 2004 SQ_{20}	14.5	X	11.47309	225.42939	208.70683	2.21635	0.2229726	0.12394807	3.9839101	21	—	—
128859 2004 ST_{21}	16.9	X	191.55709	266.99427	168.00292	4.29862	0.1179532	0.27905378	2.3192316	21	6 9.9	20.3
128860 2004 SL_{26}	14.8	X	20.41826	247.26285	138.54626	28.80847	0.1691315	0.23562919	2.5960715	21	—	—
128861 2004 SK_{30}	16.3	X	325.19631	188.78252	170.59586	1.59498	0.1139943	0.28700384	2.2762026	21	8 28.5	18.2
128862 2004 SY_{30}	15.7	X	306.23970	239.22956	194.01262	0.53938	0.1515894	0.17517564	3.1633961	21	10 20.1	19.5
128863 2004 SD_{31}	15.6	X	199.12992	221.29585	162.43166	4.31422	0.1101627	0.21067806	2.7971978	21	4 16.8	19.9
128864 2004 SJ_{31}	15.7	X	119.19308	251.83184	153.31447	2.56226	0.0724720	0.20054599	2.8906359	21	2 12.7	19.8
128865 2004 SK_{31}	15.8	X	292.69082	151.14110	169.28987	3.41975	0.1799816	0.21825382	2.7320888	21	4 29.1	19.4
128866 2004 SF_{32}	16.9	X	148.47906	256.43063	141.33441	2.41316	0.1845689	0.26225969	2.4172136	21	3 14.3	20.5
128867 2004 SV_{32}	15.5	X	122.25903	278.45600	106.48762	3.17520	0.1249833	0.19721502	2.9230937	21	1 31.1	19.6
128868 2004 SQ_{33}	16.1	X	282.15997	283.16679	48.60735	8.48256	0.1495976	0.27515677	2.3410781	21	4 30.3	19.1
128869 2004 SU_{33}	14.8	X	330.08573	276.99444	165.13406	11.09681	0.1611842	0.17884467	3.1199818	21	12 13.6	18.5
128870 2004 SW_{33}	15.9	X	52.87210	166.51026	152.51750	6.25208	0.2463048	0.23698316	2.5861739	21	12 9.2	19.7
128871 2004 SG_{36}	15.0	X	331.82132	20.27462	45.59584	8.60753	0.1706547	0.17702833	3.1412864	21	11 22.9	18.3
128872 2004 SK_{38}	15.4	X	244.29085	287.69464	141.56408	7.31859	0.0415133	0.22296528	2.6934643	21	8 9.5	19.0
128873 2004 SH_{39}	16.6	X	253.77928	222.59564	168.99718	5.59362	0.0659026	0.27867244	2.3213468	21	6 28.0	19.6
128874 2004 SB_{41}	16.1	X	343.33719	260.88147	154.58111	6.54093	0.1258521	0.23710687	2.5852743	21	12 16.7	18.9
128875 2004 SQ_{44}	15.8	X	132.70946	317.58296	289.92193	2.36350	0.1668894	0.24087697	2.5582277	21	11 19.2	20.0
128876 2004 SE_{52}	15.6	X	283.85942	4.59213	277.63263	7.73967	0.1684328	0.21341536	2.7732281	21	2 26.8	19.8
128877 2004 SG_{53}	14.3	X	227.30729	170.65723	298.87687	15.97777	0.1699121	0.16856075	3.2456255	21	8 19.5	19.6
128878 2004 SR_{54}	14.8	X	335.66350	251.37828	180.17127	14.20440	0.0923982	0.17826060	3.1267931	21	12 9.1	19.0
128879 2004 SX_{54}	15.3	X	327.74127	242.02673	156.42580	14.41876	0.1191183	0.22852744	2.6495806	21	10 27.6	18.4
128880 2004 SE_{55}	15.1	X	24.14400	264.88278	87.79644	1.88123	0.1905668	0.17712710	3.1401185	21	11 23.7	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128881 2004 SN_{55}	16.5	X	6.43779	199.02570	125.25295	2.37306	0.2422707	0.28874798	2.2670273	21	10 15.9	17.9
128882 2004 SX_{55}	16.9	X	332.40247	190.47039	107.41019	3.93397	0.1826844	0.28034760	2.3120905	21	5 24.8	19.0
128883 2004 ST_{56}	16.6	X	238.24050	348.07495	157.37448	5.19810	0.0762233	0.29664650	2.2266053	21	11 19.3	19.2
128884 2004 SV_{57}	15.1	X	324.93836	90.76209	7.92444	10.25656	0.1709509	0.18053518	3.1004745	21	12 25.4	18.7
128885 2004 SY_{57}	15.7	X	265.77640	6.80747	357.44427	5.08021	0.1764715	0.21779606	2.7359157	21	5 22.3	19.8
128886 2004 SF_{58}	15.7	X	221.81419	234.69954	179.15635	6.19081	0.0600167	0.21721382	2.7408026	21	6 19.8	19.7
128887 2004 SL_{58}	15.2	X	138.22799	354.48346	3.40664	12.52073	0.0513827	0.19503663	2.9448189	21	1 9.8	19.6
128888 2004 SY_{58}	15.8	X	322.59805	291.89426	170.11745	19.25004	0.1820113	0.24108566	2.5567512	21	—	—
128889 2004 SF_{59}	15.4	X	236.67017	288.90076	142.60622	12.33214	0.0834527	0.21908830	2.7251470	21	7 27.8	19.3
128890 2004 SH_{59}	15.4	X	233.78806	77.23184	348.07954	6.54085	0.1493678	0.21918272	2.7243642	21	7 11.2	19.6
128891 2004 SP_{59}	15.5	X	34.89071	238.26759	145.83125	9.03972	0.1780806	0.23904816	2.5712588	21	—	—
128892 2004 TH	17.0	X	251.02094	319.97446	354.30056	1.37450	0.1965645	0.26886778	2.3774435	21	2 28.9	20.7
128893 2004 TK	16.1	X	220.76167	253.49710	31.71370	2.90121	0.1608618	0.26046385	2.4283116	21	—	—
128894 2004 TL	15.1	X	108.26573	42.72636	24.91377	6.20436	0.0459370	0.20295679	2.8676996	21	2 25.6	19.0
128895 Bright Spring	16.8	X	321.35774	279.08646	9.98896	2.44782	0.1666717	0.27702655	2.3305323	21	4 21.6	19.2
128896 2004 TA_{2}	16.2	X	262.39539	29.18528	326.51164	0.89166	0.0968126	0.21744201	2.7388847	21	5 18.4	20.0
128897 2004 TD_{3}	16.5	X	343.15127	181.69716	38.21065	2.71295	0.1676320	0.26649677	2.3915240	21	2 19.3	18.9
128898 2004 TY_{6}	14.4	X	305.18315	296.03791	107.76779	19.63182	0.1296961	0.16915097	3.2380712	21	9 20.4	18.9
128899 2004 TH_{7}	15.4	X	142.05045	281.71518	108.38080	8.17421	0.1347463	0.20210032	2.8757958	21	3 2.7	19.8
128900 2004 TE_{15}	14.8	X	49.79848	248.79701	46.58973	13.99793	0.1669687	0.23000009	2.6382587	21	10 25.7	18.2
128901 2004 TH_{15}	17.0	X	324.11020	283.62227	47.01188	4.98292	0.1957503	0.28133788	2.3066617	21	6 27.7	18.8
128902 2004 TU_{15}	14.6	X	271.38499	113.37804	24.41307	22.80843	0.2145434	0.17644721	3.1481797	21	11 4.6	19.0
128903 2004 TV_{20}	16.2	X	36.42126	312.38476	357.97228	2.86709	0.1930937	0.23233665	2.6205407	21	10 27.9	19.3
128904 2004 TG_{21}	15.6	X	268.42811	279.63710	42.93572	3.84164	0.0816286	0.21533156	2.7567513	21	4 15.7	19.6
128905 2004 TM_{21}	15.9	X	287.29890	278.21789	152.95890	12.64340	0.1532507	0.22867239	2.6484608	21	9 27.3	19.1
128906 2004 TR_{34}	15.3	X	12.63491	251.74321	79.23758	1.94378	0.1596831	0.17270426	3.1935031	21	10 3.8	18.9
128907 2004 TT_{41}	16.3	X	51.23764	312.46839	356.33447	4.61275	0.1915485	0.29369462	2.2414999	21	11 24.5	19.2
128908 2004 TU_{43}	15.7	X	355.80001	177.51228	262.37006	1.87064	0.0718729	0.18343097	3.0677569	21	—	—
128909 2004 TX_{44}	16.2	X	114.66617	36.30488	242.65943	2.49473	0.0853538	0.23762188	2.5815374	21	12 6.9	19.9
128910 2004 TV_{48}	15.0	X	35.30064	344.68713	49.04184	2.27527	0.2485491	0.18268707	3.0760792	21	—	—
128911 2004 TX_{51}	16.1	X	275.47433	106.53191	249.95138	2.25724	0.1035419	0.21631532	2.7483868	21	6 4.3	20.0
128912 2004 TF_{53}	16.2	X	248.73189	31.40658	32.61596	2.00394	0.0663237	0.22084345	2.7106891	21	8 5.6	19.8
128913 2004 TU_{53}	16.2	X	269.20935	68.92472	55.20276	2.33187	0.1293724	0.23291328	2.6162137	21	11 12.4	19.1
128914 2004 TV_{53}	15.4	X	33.08230	174.52120	231.31002	0.36686	0.0798713	0.18339532	3.0681544	21	—	—
128915 2004 TG_{56}	16.8	X	294.92335	72.79797	227.23593	2.93319	0.1374680	0.27587859	2.3369928	21	4 2.9	19.8
128916 2004 TV_{57}	16.7	X	52.03451	315.08393	250.93186	1.64681	0.1473712	0.27602114	2.3361882	21	6 19.1	18.8
128917 2004 TY_{58}	15.1	X	193.35617	16.94496	191.29644	13.18758	0.2025325	0.24136113	2.5548054	21	11 25.2	19.4
128918 2004 TG_{60}	15.4	X	321.68041	122.79360	288.65509	0.66442	0.1846126	0.17406119	3.1768845	21	10 14.5	18.7
128919 2004 TU_{60}	15.5	X	131.18225	350.84362	57.82414	3.00800	0.0610556	0.20355614	2.8620678	21	3 3.1	19.5
128920 2004 TV_{65}	15.9	X	165.22664	29.36294	58.78090	2.66248	0.2162295	0.21217968	2.7839848	21	6 4.7	20.7
128921 2004 TT_{66}	15.7	X	105.11308	138.12948	152.74192	6.70788	0.1372370	0.23937522	2.5689161	21	12 15.7	19.7
128922 2004 TM_{67}	14.8	X	58.64379	276.65775	86.69872	11.33091	0.1241030	0.18272072	3.0757015	21	—	—
128923 2004 TD_{68}	16.4	X	288.12894	240.74899	113.17496	6.51492	0.1388555	0.27934621	2.3176127	21	6 10.8	19.2
128924 2004 TR_{68}	15.3	X	224.41939	247.29308	139.72826	6.03723	0.0479376	0.21475940	2.7616455	21	5 21.3	19.3
128925 Conwell	15.4	X	120.19365	2.14322	255.85163	1.25309	0.2522195	0.18310039	3.0714483	21	11 18.5	20.7
128926 2004 TM_{70}	15.0	X	78.94446	267.45248	108.28678	11.80141	0.1297475	0.18868741	3.0105148	21	—	—
128927 2004 TZ_{74}	16.1	X	331.45743	357.80139	24.76435	4.27773	0.2175149	0.22975937	2.6401011	21	10 4.3	18.0
128928 2004 TB_{76}	14.8	X	102.56816	293.21781	16.03244	11.13678	0.0242011	0.18168557	3.0873729	21	12 14.5	19.4
128929 2004 TL_{77}	15.1	X	211.10870	276.78186	59.96587	2.76004	0.0957073	0.20259840	2.8710805	21	3 3.6	19.5
128930 2004 TA_{79}	16.3	X	243.44513	16.79024	323.81784	4.36789	0.2384516	0.27101551	2.3648664	21	3 22.7	20.3
128931 2004 TB_{84}	16.0	X	145.00993	18.76221	6.83768	1.74233	0.0750145	0.20203966	2.8763714	21	2 19.7	20.1
128932 2004 TW_{94}	16.2	X	7.55825	165.40278	10.79558	1.82323	0.0113097	0.20252009	2.8718206	21	2 26.4	19.9
128933 2004 TG_{95}	17.0	X	334.85828	30.70392	199.85661	3.66514	0.1613983	0.26642376	2.3919609	21	2 19.4	19.7
128934 2004 TD_{101}	15.5	X	292.99902	91.59711	45.68844	1.98575	0.1497080	0.18321165	3.0702047	21	12 21.5	19.3
128935 2004 TF_{107}	14.8	X	346.40140	27.17145	74.43511	9.50117	0.1660311	0.18621686	3.0370834	21	—	—
128936 2004 TD_{108}	15.3	X	240.12836	310.21154	55.70882	10.24749	0.1699033	0.21505403	2.7591225	21	5 1.6	19.7
128937 2004 TH_{109}	14.8	X	29.32659	295.02056	65.21111	2.89841	0.1261479	0.17604655	3.1529545	21	12 1.0	19.0
128938 2004 TK_{109}	15.0	X	316.73852	326.63505	138.53548	1.52671	0.1496366	0.17887441	3.1196358	21	12 18.9	18.6
128939 2004 TU_{110}	15.4	X	66.16725	179.26800	70.76795	15.70677	0.0430014	0.22401936	2.6850086	21	9 3.6	19.4
128940 2004 TD_{114}	14.6	X	288.43888	90.47552	44.83738	17.95648	0.0876858	0.17906955	3.1173691	21	12 15.9	18.9
128941 2004 TS_{118}	15.4	X	49.62199	337.36500	114.64261	2.34998	0.0581661	0.19376518	2.9576871	21	1 9.7	19.1
128942 2004 TC_{126}	15.3	X	232.73660	315.06616	57.55068	7.15022	0.1049907	0.21494801	2.7600298	21	5 6.8	19.3
128943 2004 TT_{127}	15.5	X	288.02138	230.03072	107.89569	5.87907	0.1215615	0.21904363	2.7255174	21	5 25.3	19.3
128944 2004 TW_{128}	15.5	X	44.13761	50.14779	88.91915	3.26129	0.0103247	0.20347686	2.8628112	21	2 27.5	19.3
128945 2004 TB_{129}	15.1	X	266.54159	235.30027	91.67758	7.12159	0.0491897	0.21250718	2.7811237	21	4 26.0	19.0
128946 2004 TG_{131}	15.6	X	257.53137	216.65779	103.76634	10.49902	0.2777419	0.21183997	2.7869603	21	3 18.6	20.5
128947 2004 TK_{131}	14.4	X	272.73297	85.71161	48.46623	27.01344	0.0730234	0.17666744	3.1455628	21	11 23.4	18.8
128948 2004 TO_{131}	15.1	X	285.55989	264.40156	60.02161	13.53493	0.1506253	0.21417460	2.7666703	21	5 1.7	19.0
128949 2004 TV_{131}	15.2	X	325.02713	294.80860	168.88923	5.25413	0.1405316	0.18029172	3.1032650	21	12 31.8	18.9
128950 2004 TA_{132}	15.4	X	217.06500	257.23860	201.37472	12.80774	0.1705825	0.21963938	2.7205868	21	7 30.3	20.0
128951 2004 TY_{132}	15.0	X	355.80662	206.20313	269.17779	9.27741	0.0636840	0.18904624	3.0067041	21	—	—
128952 2004 TK_{133}	14.9	X	324.44642	55.98124	56.99426	16.46601	0.2348110	0.17968154	3.1102866	21	—	—
128953 2004 TM_{133}	16.7	X	348.03845	137.27111	192.68783	4.36340	0.1617944	0.28393591	2.2925695	21	8 26.4	18.3
128954 2004 TD_{134}	14.7	X	20.57553	330.25916	59.46553	11.91366	0.0717820	0.17816449	3.1279175	21	12 17.9	18.9
128955 2004 TE_{134}	16.0	X	12.49652	157.84046	160.11185	5.17138	0.1728203	0.28617383	2.2806017	21	10 6.4	17.8
128956 2004 TH_{134}	14.9	X	353.83407	242.17227	215.30548	11.28858	0.0483512	0.18405966	3.0607672	21	—	—
128957 2004 TF_{135}	16.8	X	277.11743	221.66322	51.79976	3.06617	0.1775107	0.26816941	2.3815693	21	2 5.2	20.3
128958 2004 TL_{137}	16.3	X	307.88681	205.67270	74.94257	4.00070	0.2269138	0.27279461	2.3545732	21	3 14.3	19.4
128959 2004 TP_{137}	15.8	X	352.77316	306.22160	54.38600	4.13706	0.0752141	0.23051039	2.6343635	21	10 13.7	18.8
128960 2004 TF_{143}	16.4	X	344.63781	62.53841	280.17962	2.63785	0.1654878	0.28642846	2.2792499	21	9 9.8	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
128961 2004 TY_{144}	14.9	X	336.40610	167.60711	226.90661	4.14949	0.1590459	0.17196376	3.2026644	21	10 20.3	18.6
128962 2004 TZ_{145}	16.1	X	336.57134	307.58747	356.44392	2.83001	0.0691064	0.21987271	2.7186616	21	6 27.0	19.3
128963 2004 TA_{146}	15.7	X	350.21438	65.60843	357.55405	1.48484	0.1425598	0.18004446	3.1061055	21	12 23.1	19.2
128964 2004 TJ_{146}	16.0	X	330.11912	222.13713	32.33356	7.14515	0.0849816	0.26953646	2.3735098	21	4 1.8	18.6
128965 2004 TU_{146}	16.7	X	47.41095	314.38169	280.34542	2.61877	0.0692661	0.27910486	2.3189486	21	7 13.2	19.2
128966 2004 TQ_{147}	15.7	X	304.69372	230.37899	291.73288	2.94302	0.0999525	0.18949925	3.0019104	21	—	—
128967 2004 TT_{152}	16.7	X	287.16815	268.49880	4.32274	1.94494	0.2029987	0.26899505	2.3766936	21	2 11.2	20.2
128968 2004 TW_{159}	15.1	X	1.84228	102.85795	2.52867	2.29991	0.2327099	0.18536628	3.0463670	21	—	—
128969 2004 TU_{162}	16.3	X	38.09454	63.51095	194.30426	1.85972	0.0180292	0.21927718	2.7235818	21	7 24.1	20.0
128970 2004 TY_{162}	16.3	X	209.15562	169.47233	173.13084	1.97395	0.0752680	0.20333043	2.8641854	21	3 7.3	20.4
128971 2004 TW_{163}	16.3	X	13.31202	168.92538	46.82235	7.60638	0.0682093	0.26757719	2.3850820	21	4 18.4	18.7
128972 2004 TQ_{165}	16.9	X	114.99603	203.17413	327.36932	2.90455	0.1166735	0.27968287	2.3157525	21	7 25.1	19.8
128973 2004 TB_{167}	16.1	X	37.89760	63.12986	239.62874	1.38258	0.0850445	0.23222963	2.6213457	21	10 3.3	19.2
128974 2004 TK_{169}	15.0	X	258.28559	35.14688	50.36460	11.79105	0.1085476	0.16767797	3.2570072	21	9 10.7	19.8
128975 2004 TX_{172}	15.0	X	37.88167	70.19293	300.31653	9.84854	0.1412320	0.17946823	3.1127507	21	12 28.3	19.3
128976 2004 TF_{173}	15.8	X	320.78541	69.94012	344.76497	8.75972	0.1168205	0.23141232	2.6275142	21	10 29.9	18.8
128977 2004 TB_{174}	15.6	X	107.97922	118.94570	283.50485	1.30916	0.0369292	0.19943924	2.9013201	21	1 21.8	19.6
128978 2004 TH_{176}	16.4	X	318.29342	284.03264	49.16483	0.56291	0.2023469	0.27999805	2.3140143	21	6 18.2	18.3
128979 2004 TU_{178}	16.5	X	8.32926	219.24182	181.10117	2.99495	0.1024363	0.24119654	2.5559675	21	—	—
128980 2004 TV_{182}	16.0	X	36.33557	46.53823	250.40841	3.50506	0.1924877	0.23165047	2.6257130	21	10 8.7	19.1
128981 2004 TA_{190}	15.6	X	8.10756	308.82807	186.22111	2.88835	0.0323502	0.19671811	2.9280140	21	1 6.1	19.4
128982 2004 TR_{194}	15.0	X	253.59162	268.31230	232.88550	6.17767	0.1669320	0.17559954	3.1583030	21	10 29.2	19.6
128983 2004 TQ_{198}	16.1	X	111.70192	244.16865	184.31664	1.24953	0.0980359	0.20074588	2.8887168	21	3 8.0	19.9
128984 2004 TP_{204}	15.4	X	64.18622	19.61747	4.39026	0.76341	0.0080406	0.18367854	3.0649997	21	—	—
128985 2004 TM_{206}	15.5	X	5.70578	338.47103	90.65680	1.33878	0.0631438	0.18134146	3.0912774	21	—	—
128986 2004 TN_{207}	15.1	X	322.45428	270.16431	202.70324	1.68673	0.0720040	0.18054188	3.1003977	21	—	—
128987 2004 TZ_{207}	15.1	X	235.13345	36.66006	89.49597	2.58739	0.1126612	0.16833426	3.2485362	21	9 28.6	19.9
128988 2004 TR_{211}	15.9	X	179.73349	192.67830	10.40985	6.52441	0.0987007	0.29311390	2.2444595	21	11 16.9	19.0
128989 2004 TN_{212}	15.5	X	36.58208	339.60583	59.76563	2.10672	0.1762624	0.18393182	3.0621854	21	—	—
128990 2004 TW_{212}	15.5	X	69.94342	73.73323	296.32954	1.27313	0.0930139	0.18431212	3.0579716	21	—	—
128991 2004 TZ_{212}	15.8	X	126.23389	291.62396	33.22312	1.30593	0.0259273	0.18591440	3.0403765	21	—	—
128992 2004 TH_{216}	15.4	X	279.28675	173.53048	287.57492	3.24489	0.0354629	0.17355297	3.1830834	21	10 29.5	19.9
128993 2004 TN_{222}	15.2	X	344.59910	258.56300	134.63008	10.66832	0.2801725	0.17302543	3.1895501	21	11 11.8	18.2
128994 2004 TE_{228}	16.9	X	338.88091	14.89466	269.91802	1.69536	0.1528783	0.27782983	2.3260380	21	5 20.5	18.9
128995 2004 TZ_{232}	15.8	X	163.11803	19.68062	225.88309	4.61956	0.0908559	0.23964860	2.5669621	21	12 16.6	19.6
128996 2004 TN_{236}	15.0	X	8.45697	81.33074	307.06778	9.44055	0.0826502	0.17689434	3.1428724	21	11 30.3	19.3
128997 2004 TQ_{242}	15.5	X	272.85129	333.11727	82.41370	14.45339	0.1128203	0.22797558	2.6538548	21	8 24.7	19.3
128998 2004 TU_{242}	14.9	X	13.53881	272.29218	115.05313	11.66606	0.1297496	0.18114748	3.0934839	21	12 14.8	18.8
128999 2004 TB_{247}	14.8	X	47.60303	216.98063	135.94070	12.09227	0.2285632	0.18067107	3.0989196	21	12 30.9	19.4
129000 2004 TO_{247}	15.7	X	50.47831	223.04790	150.47921	14.82542	0.1654514	0.24209640	2.5496300	21	—	—
129001 2004 TY_{247}	14.6	X	313.49138	175.61152	93.45206	16.60480	0.2167155	0.21065072	2.7974398	21	3 23.7	18.6
129002 2004 TR_{256}	14.7	X	357.22610	79.47016	11.37072	8.57452	0.2196741	0.12373035	3.9885824	21	—	—
129003 2004 TJ_{268}	15.7	X	238.07075	208.99647	141.88903	1.67851	0.0819754	0.21004602	2.8028063	21	4 17.3	19.7
129004 2004 TS_{286}	16.3	X	83.33565	145.86351	161.74133	3.47543	0.1961737	0.24053778	2.5606321	21	12 19.6	20.4
129005 2004 TK_{291}	16.5	X	168.58365	292.61423	221.29635	0.87788	0.0291143	0.22546312	2.6735339	21	8 27.6	20.1
129006 2004 TV_{294}	16.0	X	197.39030	32.65848	10.19824	5.32471	0.0475823	0.20878820	2.8140517	21	5 7.0	20.0
129007 2004 TP_{296}	15.1	X	54.60030	213.34875	194.50718	0.97452	0.2924397	0.12700362	3.9197526	21	1 4.2	19.5
129008 2004 TV_{296}	15.7	X	310.99011	334.58656	214.91059	3.95020	0.1080504	0.19092554	2.9869414	21	—	—
129009 2004 TT_{302}	15.8	X	188.51898	282.96316	60.73098	2.90519	0.0963074	0.20137771	2.8826712	21	2 17.6	20.2
129010 2004 TB_{303}	16.5	X	14.79677	74.64351	348.24855	2.52961	0.1000523	0.24234830	2.5478630	21	—	—
129011 2004 TG_{306}	15.1	X	212.74024	344.93891	269.69238	9.68986	0.0370965	0.19234625	2.9722151	21	—	—
129012 2004 TM_{307}	16.2	X	331.89539	316.68192	313.02952	6.33945	0.0972505	0.27318518	2.3523285	21	4 19.2	18.9
129013 2004 TX_{310}	14.9	X	340.26502	130.58910	321.57013	8.35706	0.0415235	0.18218381	3.0817414	21	—	—
129014 2004 TE_{317}	15.7	X	1.16722	348.00283	262.46267	3.18160	0.1259811	0.21474912	2.7617336	21	5 19.9	18.6
129015 2004 TJ_{321}	14.8	X	337.91542	201.34407	264.38066	13.44939	0.0497595	0.18259187	3.0771483	21	—	—
129016 2004 TS_{321}	16.0	X	350.84125	246.77929	4.67188	4.17103	0.0566369	0.20887973	2.8132297	21	5 7.2	19.5
129017 2004 TD_{324}	15.4	X	261.90951	120.73907	91.99698	2.69318	0.1396023	0.18645278	3.0345209	21	—	—
129018 2004 TF_{324}	15.8	X	85.89292	281.13224	179.16637	1.92141	0.0423121	0.19891894	2.9063770	21	3 7.2	19.5
129019 2004 TS_{325}	15.4	X	2.38281	123.77870	355.33251	2.00791	0.0861537	0.18970036	2.9997883	21	—	—
129020 2004 TL_{328}	16.0	X	0.88265	201.83711	110.44992	7.52613	0.1312828	0.28556893	2.2838211	21	8 29.3	17.9
129021 2004 TS_{330}	15.9	X	11.17919	331.77110	32.36910	2.38911	0.1729612	0.23361338	2.6109842	21	11 27.8	18.7
129022 2004 TM_{335}	16.5	X	300.60399	213.94935	23.76501	1.31522	0.1395666	0.26004087	2.4309441	21	1 20.9	19.8
129023 2004 TB_{336}	15.9	X	230.51485	230.46965	1.23380	0.11962	0.0643549	0.18622425	3.0370030	21	—	—
129024 2004 TA_{339}	14.8	X	341.60164	296.36494	153.41429	17.03460	0.1376385	0.18048345	3.1010669	21	—	—
129025 2004 TX_{343}	16.1	X	171.28029	227.99435	159.04225	0.61465	0.0512220	0.20250835	2.8719316	21	3 20.3	20.2
129026 Conormcmenamin	14.5	X	11.98206	324.57282	58.33398	17.91889	0.0817393	0.17425237	3.1745603	21	11 28.0	18.7
129027 2004 TJ_{345}	14.8	X	36.31919	222.66258	137.43388	15.38249	0.2059805	0.17848827	3.1241336	21	12 23.3	19.2
129028 2004 TR_{346}	16.5	X	110.27312	277.94334	356.68562	4.51265	0.0867749	0.29478730	2.2359575	21	12 5.6	19.5
129029 2004 TQ_{348}	16.3	X	320.32664	223.66544	49.10460	6.91765	0.0924143	0.26778186	2.3838666	21	4 12.3	19.0
129030 2004 TR_{349}	15.5	X	112.01290	249.61609	120.85759	3.09953	0.1154443	0.19088491	2.9873652	21	—	—
129031 2004 TW_{349}	15.7	X	144.26252	238.60364	143.37254	2.51222	0.0946681	0.19811599	2.9142246	21	2 16.8	19.8
129032 2004 TS_{356}	14.5	X	327.30659	241.92034	167.43228	23.68341	0.1949869	0.17368695	3.1814462	21	10 26.8	18.3
129033 2004 TV_{356}	15.2	X	234.80926	321.26254	119.92974	12.64450	0.1674926	0.22200341	2.7012386	21	7 30.1	19.3
129034 2004 TH_{360}	15.6	X	315.85905	13.58312	286.52464	4.46866	0.0390152	0.21540752	2.7561032	21	5 23.9	19.3
129035 2004 US_{2}	15.7	X	347.43092	234.05121	126.11057	9.67035	0.0568976	0.23077466	2.6323520	21	10 7.2	19.0
129036 2004 UC_{4}	14.6	X	304.09494	178.43642	310.40484	17.57810	0.1656619	0.18105754	3.0945082	21	12 29.3	18.4
129037 2004 UL_{4}	15.1	X	24.86515	110.75328	308.25788	14.69923	0.0890818	0.18456548	3.0551725	21	—	—
129038 2004 UY_{4}	15.2	X	251.26336	36.01395	315.83059	20.30439	0.1847561	0.21116750	2.7928739	21	4 11.2	20.1
129039 2004 UC_{5}	15.1	X	36.93019	329.30286	114.48434	11.39492	0.0702382	0.19150422	2.9809211	21	—	—
129040 2004 UY_{5}	15.1	X	308.85977	143.87669	41.61126	10.89320	0.0275216	0.19169901	2.9789015	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129041 2004 UV_7	15.3	X	335.44581	120.94325	291.00414	3.32499	0.1192462	0.17431545	3.1737945	21	11 10.9	19.2
129042 2004 VF_2	14.4	X	54.26893	281.76416	53.09754	16.45242	0.0277368	0.17448276	3.1717653	21	11 18.1	18.8
129043 2004 VN_3	16.3	X	343.78570	175.43663	65.20891	5.12484	0.0970873	0.26681413	2.3896273	21	4 3.4	18.9
129044 2004 VW_3	15.1	X	128.62535	179.29544	127.36452	1.75539	0.1789467	0.18587916	3.0407607	21	—	—
129045 2004 VR_4	15.4	X	247.79027	99.64552	338.37008	11.47049	0.0872423	0.22296393	2.6934751	21	8 20.9	19.1
129046 2004 VY_4	14.7	X	133.17899	61.68403	260.38374	8.48051	0.0256688	0.18559777	3.0438334	21	—	—
129047 2004 VR_5	15.1	X	216.81354	353.80965	295.78750	10.78475	0.0191936	0.19526133	2.9425592	21	1 12.9	19.3
129048 2004 VV_5	15.1	X	84.69181	88.78562	53.43650	13.37443	0.1020207	0.20515318	2.8471950	21	5 7.8	18.7
129049 2004 VQ_6	16.7	X	64.50899	190.71809	134.74792	1.96270	0.2046936	0.29630053	2.2283381	21	—	—
129050 Lowellcogburn	15.7	X	181.73255	91.72083	342.50685	14.79417	0.1313932	0.21242525	2.7818388	21	5 27.9	20.4
129051 Chrismay	15.1	X	139.91731	349.27034	342.32124	9.84266	0.0661828	0.18944145	3.0025209	21	—	—
129052 Nimeshdave	14.6	X	141.92867	311.77871	357.87418	16.03842	0.0694241	0.18549562	3.0449508	21	—	—
129053 Derekshannon	14.4	X	355.16579	151.85046	276.64186	11.98387	0.1054688	0.17845831	3.1244833	21	—	—
129054 2004 VM_{13}	15.1	X	32.56073	148.81994	129.29347	14.79349	0.1465698	0.22293013	2.6937474	21	9 2.1	18.3
129055 2004 VC_{16}	15.7	X	164.45827	255.42816	153.63494	10.87269	0.1542865	0.20494728	2.8491016	21	4 18.4	20.4
129056 2004 VQ_{17}	15.3	X	45.32575	305.48033	193.76659	5.38654	0.0713107	0.19861525	2.9093390	21	3 2.7	19.0
129057 2004 VL_{18}	15.7	X	142.92738	87.10515	290.09827	1.05043	0.0598668	0.19680356	2.9271665	21	2 5.5	19.7
129058 2004 VQ_{18}	16.2	X	238.97182	255.95519	44.95701	3.40981	0.0803465	0.25992813	2.4316470	21	2 8.9	19.6
129059 2004 VS_{18}	14.8	X	218.72989	152.09414	42.90261	17.89226	0.1575454	0.17783869	3.1317365	21	11 24.4	19.7
129060 Huntskretsch	15.4	X	43.69946	323.01443	118.15038	2.64363	0.1544049	0.18841109	3.0134575	21	—	—
129061 Karlfortney	15.3	X	73.42166	31.33882	35.99218	9.81572	0.0564389	0.19270836	2.9684906	21	1 13.7	19.4
129062 2004 VL_{25}	15.6	X	354.28153	59.78579	292.50314	4.74824	0.1392734	0.22897448	2.6461310	21	10 3.5	18.3
129063 Joshwood	14.5	X	353.99010	178.95176	248.54420	8.22255	0.0576711	0.17925069	3.1152685	21	12 27.4	18.6
129064 Jeanneladewig	14.9	X	339.17243	236.63714	257.40560	10.20912	0.1602822	0.18515409	3.0486941	21	—	—
129065 2004 VV_{27}	14.8	X	58.43230	118.55612	244.95206	9.31250	0.1128612	0.18008444	3.1056458	21	—	—
129066 2004 VY_{28}	15.2	X	321.99008	126.92426	30.09101	0.07311	0.1101500	0.18535948	3.0464415	21	—	—
129067 2004 VD_{31}	16.8	X	14.95429	178.92789	93.32036	3.06828	0.1889593	0.27812332	2.3244013	21	7 26.4	18.2
129068 Alexmay	15.6	X	113.86717	289.70559	80.74751	1.65146	0.0855509	0.19054450	2.9909221	21	—	—
129069 2004 VD_{53}	15.5	X	11.85225	239.68474	155.55371	1.96413	0.1870990	0.17667407	3.1454842	21	12 27.1	19.2
129070 2004 VV_{53}	15.1	X	4.60943	271.63061	228.60318	9.98316	0.0627782	0.19025333	2.9939730	21	1 5.8	19.2
129071 Catriegle	14.6	X	1.26535	115.37472	287.66033	14.31521	0.0586881	0.17744871	3.1363232	21	12 7.5	18.9
129072 2004 VD_{57}	15.0	X	140.45176	223.79862	105.48566	16.64836	0.1350124	0.19266792	2.9689059	21	—	—
129073 Sandyfreund	15.2	X	273.13411	223.33867	287.18003	3.29390	0.1379757	0.17647904	3.1478012	21	12 8.6	19.4
129074 2004 VE_{61}	15.1	X	48.82654	299.80022	149.94838	13.43480	0.1418150	0.19104135	2.9857341	21	1 9.9	18.7
129075 2004 VA_{62}	14.5	X	250.59649	84.49906	92.82923	12.98383	0.0986350	0.18089119	3.0964051	21	12 19.0	18.8
129076 2004 VB_{62}	15.0	X	111.89566	226.88136	123.30181	10.05931	0.0721564	0.18840873	3.0134827	21	—	—
129077 2004 VC_{62}	15.1	X	13.58482	353.73942	103.61073	11.29193	0.0753008	0.18801173	3.0177233	21	—	—
129078 Animoo	16.5	X	12.06014	181.96561	141.13588	3.16589	0.1852090	0.28731865	2.2745396	21	10 16.1	18.3
129079 2004 VZ_{70}	14.3	X	37.89804	24.51205	46.23837	2.32434	0.2127436	0.12541201	3.9528465	21	—	—
129080 2004 VM_{73}	14.3	X	198.73338	308.37134	151.60950	13.87112	0.1287215	0.15594571	3.4183808	21	7 18.2	19.8
129081 2004 VH_{75}	15.0	X	342.45289	264.56657	202.69109	9.26611	0.0823117	0.18394954	3.0619887	21	—	—
129082 Oliviabillett	16.6	X	77.56432	5.93885	299.49238	3.60304	0.1762834	0.29665118	2.2265818	21	12 18.5	19.8
129083 2004 VC_{80}	15.1	X	285.70320	94.18690	334.84156	6.26951	0.1068873	0.16784137	3.2548929	21	9 17.7	19.5
129084 2004 VM_{88}	15.2	X	6.34463	191.71405	15.77781	5.58542	0.1196300	0.20279861	2.8691906	21	4 1.0	18.4
129085 2004 VY_{88}	15.2	X	247.55394	129.03404	346.26938	4.82538	0.1216990	0.16863482	3.2446750	21	9 25.9	19.9
129086 2004 VK_{89}	15.7	X	359.01315	49.74578	286.28526	4.89340	0.0892090	0.22509457	2.6764514	21	9 15.2	18.8
129087 2004 VW_{90}	15.7	X	103.48786	44.90693	64.20810	3.05172	0.0257670	0.20495176	2.8490601	21	4 8.5	19.5
129088 2004 VE_{91}	14.9	X	225.97591	245.61458	309.12479	8.09480	0.0282710	0.17930725	3.1146134	21	12 19.9	19.4
129089 2004 VX_{91}	15.6	X	149.65066	358.26541	116.46089	5.45113	0.0180778	0.21211711	2.7845322	21	6 12.0	19.5
129090 2004 WB	14.8	X	3.80973	305.99396	72.01349	10.49368	0.0801850	0.17446165	3.1720211	21	11 13.2	18.9
129091 2004 WE_5	15.3	X	44.34974	284.90921	131.36388	1.90977	0.1969317	0.18546738	3.0452599	21	—	—
129092 Snowdonia	15.1	X	53.27323	305.76114	133.94118	11.88396	0.0758472	0.18912903	3.0058265	21	1 1.6	19.0
129093 2004 WR_{10}	14.8	X	306.16175	111.48875	353.30500	16.60935	0.0980241	0.17706971	3.1407970	21	11 30.6	19.2
129094 2004 XZ	14.8	X	9.49522	176.77020	292.49220	12.20568	0.0795231	0.18827575	3.0149015	21	—	—
129095 Martyschmitzer	14.9	X	190.06241	261.37044	296.70293	12.38451	0.0677077	0.23201949	2.6229282	21	11 14.0	18.9
129096 Andrewleung	15.0	X	62.40771	69.53686	307.71183	8.14561	0.1434767	0.18227134	3.0807547	21	—	—
129097 2004 XX_1	14.4	X	280.34389	217.50489	280.27529	16.86809	0.0301036	0.17895493	3.1187000	21	12 17.6	18.7
129098 2004 XQ_2	14.9	X	285.07139	300.99823	289.25190	10.04463	0.0483291	0.19234417	2.9722365	21	1 17.5	19.0
129099 Spoelhof	15.2	X	303.43209	16.17266	154.38127	7.49005	0.1792574	0.18237116	3.0796305	21	—	—
129100 Aaronammons	15.4	X	262.44539	79.35378	345.47418	2.82073	0.0500229	0.22063030	2.7124346	21	8 26.8	18.9
129101 Geoffcollyer	15.1	X	292.28860	99.63016	78.48271	1.11228	0.0777499	0.18552999	3.0445747	21	—	—
129102 Charliecamarotte	15.6	X	134.84761	36.19589	29.70958	2.15072	0.0687080	0.19999549	2.8959379	21	3 29.2	19.6
129103 2004 XG_{15}	16.9	X	216.85314	293.47397	114.90365	2.22533	0.1791891	0.27042641	2.3682996	21	5 29.3	20.5
129104 2004 XW_{17}	14.6	X	308.46960	344.26245	176.95070	17.83984	0.1477915	0.18178826	3.0862101	21	—	—
129105 2004 XT_{20}	15.2	X	66.40097	308.38451	100.54836	3.49172	0.2027445	0.18611625	3.0381778	21	—	—
129106 2004 XD_{21}	15.2	X	175.62704	285.68404	93.83013	3.09780	0.0335890	0.19899056	2.9056796	21	3 16.8	19.4
129107 2004 XH_{21}	15.3	X	103.83163	280.97767	108.69860	2.64048	0.1613981	0.19033050	2.9931637	21	1 20.7	19.3
129108 Kristianwaldorff	15.8	X	20.53543	183.23508	189.98450	2.00474	0.1572610	0.23449757	2.6044168	21	12 22.9	18.8
129109 2004 XF_{32}	15.7	X	233.83783	321.92647	91.52473	3.20508	0.0842404	0.21420314	2.7664245	21	7 1.2	19.7
129110 2004 XM_{40}	16.4	X	111.95169	289.19399	16.98692	2.98182	0.1746486	0.29701728	2.2247518	21	—	—
129111 2004 XE_{48}	14.7	X	213.72000	117.19744	101.38045	8.53363	0.0530019	0.17621030	3.1510009	21	12 30.2	19.3
129112 2004 XZ_{59}	15.6	X	207.15684	79.55788	35.25089	3.63863	0.0613686	0.21575015	2.7531845	21	8 22.9	19.6
129113 2004 XT_{63}	15.4	X	317.11346	127.95545	332.78388	3.94558	0.0708669	0.17513393	3.1638984	21	12 16.4	19.5
129114 Oliverwalthall	14.3	X	214.95105	304.14443	229.37656	12.94044	0.0672153	0.17195917	3.2027213	21	11 5.9	19.0
129115 2004 XE_{79}	14.6	X	123.57556	290.77454	94.72937	11.39089	0.0627678	0.19027398	2.9937563	21	1 27.0	18.8
129116 2004 XN_{102}	14.9	X	264.30447	134.86109	9.87479	15.81116	0.0613375	0.17474148	3.1686337	21	11 26.2	19.6
129117 2004 XZ_{105}	14.9	X	280.38377	221.44168	276.23131	7.71407	0.0390671	0.17585925	3.1551928	21	12 15.3	19.2
129118 2004 XP_{109}	15.8	X	273.78953	157.98333	343.73055	3.55838	0.1072732	0.23594289	2.5937699	21	12 16.3	18.9
129119 Ericmuhle	15.6	X	320.87038	51.56606	314.55008	5.13181	0.0385992	0.22115767	2.7081209	21	8 29.8	19.1
129120 2004 XS_{120}	15.3	X	147.58802	325.91172	58.11785	2.60790	0.1076486	0.19566520	2.9385087	21	2 25.7	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129121 2004 XS_{123}	15.1	X	280.39360	175.94211	349.16183	15.51926	0.0552001	0.23892502	2.5721422	21	—	—
129122 2004 XA_{126}	14.9	X	56.58947	274.99091	153.12007	11.04115	0.1581245	0.18859245	3.0115253	21	—	—
129123 2004 XY_{142}	16.1	X	329.95007	314.82796	354.63919	4.39899	0.1657383	0.21441424	2.7646084	21	6 12.3	19.2
129124 2004 XB_{144}	15.2	X	7.85033	272.24043	142.91973	16.05290	0.0643774	0.17861717	3.1226303	21	—	—
129125 Chrisvoth	14.9	X	102.85350	74.95769	330.25853	9.19788	0.0913826	0.19244182	2.9712310	21	1 29.4	18.9
129126 2004 XJ_{165}	15.2	X	325.52233	293.79547	261.47388	10.85978	0.0061271	0.19458612	2.9493624	21	1 26.6	19.4
129127 2004 XA_{167}	15.6	X	33.85003	232.01933	126.44696	4.33136	0.1383943	0.23359078	2.6111526	21	12 19.3	19.0
129128 2004 XE_{182}	14.6	X	91.28623	56.80632	260.87982	9.30889	0.1221541	0.18037374	3.1023242	21	12 22.4	19.2
129129 2004 YJ	14.9	X	10.92195	88.57751	337.34583	25.33307	0.2034303	0.18015472	3.1048381	21	—	—
129130 2004 YP_{20}	13.1	X	351.69363	119.11520	170.06971	1.48904	0.0712796	0.08464652	5.1372415	21	7 1.0	19.6
129131 2004 YY_{27}	15.0	X	276.61358	125.17133	356.84926	4.55175	0.1180908	0.17143285	3.2092732	21	11 9.1	19.4
129132 2004 YS_{28}	16.6	X	263.03570	120.31803	3.72833	1.37958	0.0204204	0.22978811	2.6398810	21	11 18.4	20.1
129133 2004 YZ_{31}	12.2	X	45.08652	107.44998	105.99070	23.21063	0.0439741	0.08358933	5.1804661	21	6 13.8	19.0
129134 2005 AC_{5}	12.2	X	315.33590	196.93677	99.02593	14.77234	0.0669953	0.08280755	5.2130202	21	5 25.8	19.0
129135 2005 AD_{21}	12.1	X	296.49440	199.58496	120.06694	33.11527	0.0394989	0.08097928	5.2911911	21	6 8.2	19.3
129136 2005 AM_{22}	14.5	X	251.21038	271.76078	320.44734	9.20241	0.0363362	0.18291728	3.0734977	21	—	—
129137 Hippolochos	12.9	X	266.09302	231.23772	114.51219	12.51072	0.0581895	0.08479666	5.1311757	21	5 25.7	19.9
129138 Williamfrost	16.5	X	311.67387	303.72369	253.75060	3.81462	0.1836137	0.24088282	2.5581863	21	—	—
129139 2005 AV_{48}	15.1	X	112.19453	194.23639	118.31625	2.35793	0.1805715	0.17352131	3.1834705	21	—	—
129140 2005 AO_{50}	12.6	X	345.75115	107.55211	171.87332	9.36187	0.0172861	0.08350459	5.1839702	21	6 14.5	19.5
129141 2005 AL_{57}	15.6	X	273.76350	334.85130	289.20552	8.36319	0.0440306	0.18604542	3.0389489	21	2 13.6	20.1
129142 2005 AS_{60}	13.0	X	142.19345	112.55512	11.14461	1.29666	0.0467771	0.08242097	5.2293080	21	6 19.1	20.0
129143 2005 BZ_{16}	16.3	X	85.66512	357.58945	52.22476	2.81290	0.0670371	0.24444621	2.5332643	21	—	—
129144 2005 BP_{25}	12.2	X	312.82916	191.04897	138.63944	27.70698	0.0788560	0.08412501	5.1584507	21	6 29.1	19.1
129145 2005 CE	12.6	X	103.53389	359.38083	172.64582	18.40976	0.0506327	0.08144780	5.2708804	21	7 2.4	19.8
129146 Stevenglenn	14.6	X	322.34877	268.98135	136.20131	19.78383	0.1589201	0.17097076	3.2150531	21	10 16.8	18.7
129147 2005 CY_{70}	12.4	X	349.55117	305.87461	342.04887	16.47846	0.0575332	0.08316710	5.1979850	21	6 29.2	19.2
129148 Sheilahaggard	16.0	X	174.70630	9.97006	204.07764	4.49369	0.0259407	0.21841270	2.7307637	21	11 20.7	19.9
129149 Richwitherspoon	16.1	X	215.96500	138.37131	147.60117	1.66463	0.0604942	0.23491147	2.6013566	21	—	—
129150 2005 EF_{93}	15.0	X	161.38410	194.02606	93.81042	16.33587	0.2018492	0.22596321	2.6695879	21	—	—
129151 Angelaboggs	16.4	X	19.74472	244.69790	187.51860	5.83621	0.1988797	0.23337592	2.6127550	21	—	—
129152 Jaystpierre	15.6	X	234.95898	344.91078	113.15284	9.95183	0.0982852	0.21103224	2.7940672	21	8 30.9	19.7
129153 2005 EL_{140}	12.4	X	280.16506	190.45414	164.84638	26.73367	0.0068273	0.08311981	5.1999562	21	6 26.8	19.6
129154 Georgesondecker	16.5	X	106.04192	324.26994	351.35923	2.68039	0.1755003	0.27687660	2.3313736	21	—	—
129155 2005 EV_{260}	16.9	X	331.22162	189.46089	41.04622	5.05443	0.1750739	0.24430902	2.5342126	21	2 20.0	19.9
129156 2005 EN_{264}	16.2	X	274.75542	313.70311	195.87373	4.42577	0.1007626	0.22303775	2.6928808	21	12 25.7	19.5
129157 2005 ET_{305}	16.7	X	34.96073	128.81086	133.18249	1.84409	0.1577316	0.25757340	2.4464445	21	8 15.4	18.9
129158 Michaelmellman	15.0	X	52.62679	121.78634	96.88963	11.13714	0.0318395	0.19417566	2.9535174	21	6 23.6	19.0
129159 2005 GS_{16}	15.7	X	347.03266	95.32509	301.08759	1.47223	0.0683198	0.21526418	2.7573266	21	11 16.9	19.0
129160 Ericpeters	16.0	X	18.63790	182.53075	156.75326	6.56957	0.0346400	0.21779972	2.7358850	21	10 18.9	19.6
129161 Mykallefevre	15.8	X	210.38471	171.51109	110.58664	15.24340	0.0709319	0.23136998	2.6278347	21	—	—
129162 2005 GF_{65}	14.1	X	33.08715	294.68045	141.84178	21.39888	0.0857272	0.17106218	3.2139076	21	—	—
129163 2005 GX_{69}	15.9	X	357.04608	294.01721	200.45786	1.87975	0.0929755	0.17631577	3.1497441	21	—	—
129164 2005 GE_{97}	15.4	X	34.42846	204.33505	291.86378	21.32273	0.0465554	0.24071350	2.5593858	21	1 29.2	18.6
129165 Kevinstout	15.7	X	140.66927	231.60175	180.12724	7.80012	0.1134998	0.18826131	3.0150556	21	3 24.2	20.3
129166 2005 GX_{161}	15.4	X	179.27079	269.73946	64.41942	13.98223	0.1295497	0.23293782	2.6160300	21	1 26.9	19.6
129167 Dianelambert	15.9	X	111.72614	277.55390	46.98347	2.75518	0.0462004	0.21770823	2.7366515	21	—	—
129168 2005 JR_{27}	15.6	X	78.65073	250.61733	74.40525	7.24115	0.0138060	0.21483405	2.7610057	21	12 11.4	19.5
129169 2005 JU_{77}	15.2	X	303.07309	206.46951	121.90341	10.52533	0.0427542	0.19162470	2.9796716	21	6 15.2	19.3
129170 2005 JK_{124}	15.0	X	265.23653	176.21507	104.12453	10.31096	0.0287706	0.17545010	3.1600961	21	3 5.2	19.6
129171 2005 JE_{132}	14.9	X	348.83655	170.47526	7.99034	15.99253	0.1828954	0.17522100	3.1628501	21	1 28.9	19.0
129172 Jodizareski	15.5	X	157.94504	301.00768	59.98957	15.38093	0.1324457	0.23316507	2.6143299	21	2 10.1	19.7
129173 Mattgoman	15.1	X	29.80541	354.97507	189.47243	17.29921	0.1441343	0.18063562	3.0993250	21	4 16.3	18.7
129174 2005 JK_{179}	14.5	X	174.30315	206.05334	201.75753	12.80663	0.2222713	0.18072124	3.0983460	21	4 26.9	19.7
129175 2005 KT_{11}	16.4	X	111.96218	226.05013	71.80389	3.48425	0.1773518	0.26972163	2.3724234	21	—	—
129176 Gerardcarter	14.7	X	214.20905	140.68516	200.25775	13.22961	0.1431380	0.17217604	3.2000314	21	3 10.2	20.0
129177 Jeanneeha	15.0	X	321.77990	155.57698	151.19257	9.73444	0.0975955	0.18601427	3.0392881	21	6 6.9	19.0
129178 2005 LK_{6}	16.2	X	196.61563	332.78033	198.81658	6.96373	0.0621533	0.26687246	2.3892791	21	10 27.9	19.3
129179 2005 LN_{15}	15.0	X	56.83395	242.68480	245.28049	21.12253	0.1200727	0.23703927	2.5857657	21	2 20.1	18.5
129180 2005 LB_{17}	15.4	X	168.00341	209.04349	233.88480	8.64242	0.0790062	0.18532891	3.0467765	21	5 28.2	19.9
129181 2005 LM_{34}	16.4	X	84.61493	270.95811	184.02088	7.27729	0.0843519	0.29447337	2.2375463	21	2 11.9	18.8
129182 2005 LK_{38}	16.5	X	38.04432	163.81418	120.27118	6.22384	0.1262911	0.25611189	2.4557428	21	9 20.3	19.3
129183 2005 LH_{39}	15.9	X	357.42094	16.96374	223.65442	14.13426	0.0637012	0.24303494	2.5430617	21	4 29.5	18.8
129184 2005 LL_{41}	16.6	X	208.48506	120.62530	106.03619	4.42155	0.1535906	0.27375499	2.3490631	21	—	—
129185 Jonburroughs	16.6	X	65.38602	241.21534	56.32737	1.14465	0.2207482	0.26190442	2.4193990	21	11 25.5	20.0
129186 Joshgrindlay	16.0	X	151.36899	179.84160	107.62201	7.25234	0.1130591	0.27177331	2.3604684	21	—	—
129187 Danielalfred	15.5	X	266.01617	214.98087	125.35703	29.19260	0.1297295	0.23541914	2.5976155	21	5 10.2	19.9
129188 Dangallagher	15.8	X	249.69113	136.97347	86.29381	12.68702	0.1380838	0.22241973	2.6978668	21	—	—
129189 2005 ML_{8}	16.0	X	341.87898	317.81374	292.83147	5.62484	0.1683513	0.23732255	2.5837077	21	4 3.3	18.9
129190 2005 MW_{12}	16.7	X	300.37147	38.73573	203.01791	4.03740	0.1814289	0.29109286	2.2548363	21	1 13.7	20.0
129191 2005 MG_{15}	16.9	X	242.98454	121.98388	142.57721	6.47371	0.1595434	0.28317337	2.2966833	21	—	—
129192 2005 MQ_{32}	15.2	X	19.14393	224.85965	83.97992	10.37288	0.1724239	0.18880982	3.0092134	21	9 24.6	18.9
129193 2005 MU_{39}	16.5	X	254.77969	338.32038	287.48069	5.65363	0.0730020	0.28410073	2.2916827	21	1 7.0	19.4
129194 2005 MS_{40}	15.9	X	156.08433	352.02778	136.59646	13.68183	0.0831993	0.24441358	2.5334898	21	7 11.8	19.7
129195 2005 ML_{46}	16.1	X	115.67229	259.27443	162.44495	4.37761	0.0827123	0.22539333	2.6740858	21	2 26.4	19.5
129196 Mitchbeiser	16.2	X	123.80539	167.39523	167.42838	3.39304	0.2203971	0.27049883	2.3678769	21	—	—
129197 2005 NC	15.5	X	176.55174	191.24568	141.40887	14.87221	0.1959309	0.21952875	2.7215006	21	1 25.2	20.1
129198 2005 NW_{2}	15.6	X	169.71870	210.13329	129.42493	10.51905	0.1380381	0.21866117	2.7286946	21	1 23.8	19.9
129199 2005 NK_{7}	15.1	X	151.06070	167.87182	122.21398	13.57644	0.1565817	0.21414661	2.7669114	21	—	—
129200 2005 NC_{9}	15.5	X	286.50553	213.21313	157.80787	3.22889	0.0172444	0.18241352	3.0791537	21	7 21.0	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129201 Brandenallen	15.1	X	34.40922	194.93426	287.96278	13.59180	0.0501795	0.22327961	2.6909359	21	1 18.9	18.4
129202 2005 NO_{21}	17.1	X	186.81722	132.96560	216.94240	2.94515	0.2296968	0.28391335	2.2926909	21	2 16.5	20.8
129203 2005 NF_{28}	15.4	X	166.17884	166.04433	171.66965	6.52367	0.3119286	0.21618668	2.7494770	21	1 29.5	20.3
129204 2005 NN_{32}	14.9	X	358.63101	147.03628	170.84074	9.01665	0.0175132	0.18734260	3.0249047	21	8 16.6	19.0
129205 2005 NP_{32}	15.5	X	135.58137	66.45282	165.19840	9.78999	0.0027582	0.19661689	2.9290188	21	10 24.9	19.6
129206 2005 NU_{32}	15.9	X	167.71836	142.17538	184.22548	7.39020	0.2405048	0.21645567	2.7471987	21	1 13.3	20.6
129207 2005 ND_{41}	12.9	X	13.80643	229.06724	174.41426	3.48520	0.0661867	0.08049421	5.3124268	21	12 5.9	19.6
129208 2005 NO_{56}	15.8	X	80.04777	24.21789	258.37403	1.44917	0.1019592	0.19194778	2.9763270	21	10 29.2	20.1
129209 Robertburt	15.1	X	317.63124	180.63277	126.15799	10.91442	0.0756832	0.17824971	3.1269204	21	6 4.4	19.4
129210 2005 NZ_{64}	15.0	X	2.05790	11.34247	280.94787	9.17502	0.0459313	0.18299316	3.0726480	21	7 19.5	19.0
129211 2005 NC_{66}	15.9	X	29.08863	263.70314	263.99418	3.34618	0.0552222	0.22841689	2.6504355	21	3 9.4	19.1
129212 2005 NA_{69}	16.2	X	44.47020	350.93555	15.92224	5.41873	0.2080300	0.26111779	2.4242556	21	—	—
129213 2005 NF_{69}	15.9	X	87.77361	51.11748	266.42224	0.97753	0.0627969	0.20302236	2.8670821	21	12 16.7	20.0
129214 Gordoncasto	15.7	X	245.67194	272.77369	185.51628	2.59944	0.0473551	0.19142019	2.9817934	21	9 15.2	19.8
129215 2005 NQ_{79}	14.4	X	46.34815	239.88959	312.95749	21.11382	0.0798722	0.17706684	3.1408309	21	5 11.0	19.0
129216 Chloecastle	14.8	X	325.94429	110.81528	239.06943	15.04020	0.2537460	0.17923330	3.1154700	21	7 16.9	18.4
129217 2005 NB_{85}	14.8	X	302.52021	240.97196	110.29530	10.73021	0.0432761	0.19050927	2.9912908	21	7 13.7	18.9
129218 2005 NP_{96}	16.2	X	141.76891	345.31465	344.81867	1.61912	0.1977255	0.27220839	2.3579525	21	—	—
129219 2005 NO_{99}	15.7	X	282.48087	291.38990	181.80363	7.74369	0.0472713	0.19943934	2.9013191	21	11 23.1	19.6
129220 2005 NK_{102}	14.6	X	294.78539	103.57049	263.96070	24.06364	0.3087973	0.17630783	3.1498387	21	6 14.0	19.0
129221 2005 OC_{4}	16.0	X	353.26588	156.15880	210.90131	8.57616	0.1040147	0.25432320	2.4672438	21	10 28.6	18.5
129222 2005 OL_{12}	16.7	X	114.51657	39.07725	15.05063	2.14341	0.1955129	0.27800097	2.3250832	21	2 23.9	19.5
129223 2005 OQ_{14}	16.5	X	260.19783	194.67347	145.34586	6.87108	0.2423117	0.29272216	2.2464615	21	4 7.3	20.0
129224 2005 OR_{14}	16.1	X	139.00479	208.28483	146.75955	3.27485	0.1757153	0.27324363	2.3519930	21	1 4.5	19.2
129225 2005 OV_{14}	16.5	X	119.87983	353.05474	325.95751	1.51737	0.2282047	0.26528161	2.3988216	21	—	—
129226 2005 OX_{19}	16.0	X	226.93530	167.31858	133.34184	10.02799	0.2250478	0.22232657	2.6986204	21	1 28.2	20.6
129227 2005 OY_{20}	16.8	X	106.06149	322.94980	347.36390	1.86954	0.0779258	0.26398517	2.4066690	21	—	—
129228 2005 OM_{23}	15.3	X	139.51556	300.37125	239.15915	7.60616	0.0524648	0.18685353	3.0301806	21	8 21.2	19.9
129229 2005 PB_{1}	16.1	X	47.30814	298.59151	98.41153	5.57245	0.0875825	0.26690732	2.3890710	21	—	—
129230 2005 PX_{1}	16.1	X	143.64874	218.66974	56.34610	3.30400	0.1966592	0.26673351	2.3901087	21	—	—
129231 2005 PE_{2}	16.8	X	187.62544	185.55132	112.35121	4.09954	0.1644690	0.27698853	2.3307455	21	—	—
129232 2005 PG_{3}	14.5	X	351.90262	345.24616	14.89621	6.34080	0.2728583	0.18331542	3.0690459	21	10 11.3	17.1
129233 2005 PH_{3}	14.9	X	313.25571	207.16471	199.64092	5.20551	0.2628255	0.17973978	3.1096147	21	9 11.6	18.3
129234 Silly	17.0	X	20.09194	60.69111	140.47443	6.68050	0.0373718	0.29343182	2.2428381	21	4 6.4	19.4
129235 2005 PS_{18}	16.7	X	115.93895	190.55016	212.69392	3.15396	0.1409113	0.27892003	2.3199729	21	1 31.1	19.4
129236 2005 PE_{19}	16.8	X	333.10756	11.99654	264.45585	0.59796	0.1601377	0.29924807	2.2136815	21	4 21.5	18.7
129237 2005 PJ_{19}	15.6	X	65.36751	303.23692	128.64873	4.67953	0.0787432	0.21283363	2.7782792	21	1 3.1	19.0
129238 2005 QV	16.6	X	259.47271	201.36899	132.48022	5.50436	0.1552099	0.29423309	2.2387643	21	4 6.0	19.8
129239 2005 QD_{4}	15.6	X	167.57918	150.02400	165.58549	6.51736	0.0409854	0.21083129	2.7958423	21	—	—
129240 2005 QK_{5}	16.5	X	41.85520	49.33571	341.49915	2.02331	0.1838579	0.26391923	2.4070699	21	—	—
129241 2005 QS_{13}	14.5	X	22.50407	337.73768	338.92910	1.94017	0.2365909	0.12527200	3.9557912	21	10 2.8	19.2
129242 2005 QB_{14}	15.3	X	124.04702	63.34039	197.41692	1.88367	0.0429516	0.19456307	2.9495954	21	11 15.9	19.5
129243 2005 QQ_{18}	17.1	X	294.12288	245.25592	36.91504	1.99209	0.1610765	0.29047242	2.2580460	21	3 5.1	20.1
129244 2005 QC_{21}	16.3	X	120.15827	276.97080	70.03371	2.30347	0.2045174	0.27020258	2.3696074	21	—	—
129245 2005 QN_{24}	16.6	X	185.76894	264.92637	9.88628	5.32785	0.2312127	0.27155287	2.3617456	21	—	—
129246 2005 QE_{25}	15.7	X	87.21623	235.85722	105.01628	2.88507	0.0239075	0.19896583	2.9059204	21	—	—
129247 2005 QJ_{26}	16.4	X	77.12317	6.71665	22.19132	4.21310	0.1641336	0.26636258	2.3923272	21	—	—
129248 2005 QV_{33}	17.5	X	244.38853	356.38537	328.30609	1.59626	0.2649163	0.28990918	2.2609697	21	3 2.4	21.3
129249 2005 QQ_{41}	16.3	X	187.49199	166.75851	209.69548	5.05371	0.1333781	0.28546410	2.2843802	21	3 17.7	19.6
129250 2005 QY_{41}	15.2	X	318.70740	160.73177	186.07048	6.86589	0.2413589	0.17971703	3.1098772	21	7 3.8	18.9
129251 2005 QA_{42}	16.0	X	30.32963	137.04605	327.30662	7.63415	0.1026719	0.27264112	2.3554568	21	—	—
129252 2005 QW_{49}	15.3	X	297.42238	269.40318	119.85571	7.65983	0.1987220	0.17956860	3.1115906	21	8 2.9	19.3
129253 2005 QP_{66}	15.7	X	212.18258	134.63292	158.41336	14.06496	0.2252241	0.21635484	2.7480522	21	1 8.8	20.6
129254 2005 QU_{66}	14.8	X	317.95899	330.04579	11.37584	15.26615	0.1663888	0.17803866	3.1293910	21	7 10.2	18.9
129255 2005 QC_{69}	15.0	X	349.19511	215.20013	112.06647	11.45039	0.1120621	0.18320627	3.0702648	21	8 18.6	18.7
129256 2005 QG_{70}	15.3	X	283.78115	288.73155	151.95236	10.78347	0.0961756	0.18790555	3.0188600	21	10 8.2	19.3
129257 2005 QL_{72}	14.9	X	302.84016	30.87646	308.73115	4.37623	0.2075547	0.17546921	3.1598668	21	6 4.0	19.2
129258 2005 QZ_{74}	15.8	X	214.07989	330.08636	320.54418	4.94282	0.0872257	0.21566095	2.7539436	21	1 7.8	19.9
129259 Tapolca	14.6	X	59.53919	177.09838	241.93127	8.68498	0.0645495	0.15142185	3.4861308	21	—	—
129260 2005 QC_{84}	15.9	X	160.25808	328.67581	358.57356	1.73342	0.0680592	0.21004984	2.8027723	21	—	—
129261 2005 QM_{87}	16.6	X	242.49607	154.99225	177.53583	22.63639	0.0679010	0.35148734	1.9885183	21	3 12.1	18.9
129262 2005 QD_{89}	15.0	X	297.69983	140.45478	192.29334	27.20256	0.2228628	0.17359528	3.1825661	21	5 18.8	19.7
129263 2005 QM_{95}	16.9	X	213.27714	279.43262	11.04675	1.92067	0.1717311	0.27992086	2.3144397	21	—	—
129264 2005 QS_{105}	15.3	X	248.94493	13.00954	23.51561	9.45359	0.0699808	0.17583513	3.1554813	21	6 29.5	20.0
129265 2005 QG_{110}	16.6	X	272.30343	84.54988	216.46111	1.50553	0.1446983	0.28988254	2.2611082	21	3 5.8	19.9
129266 2005 QT_{112}	16.2	X	234.30228	157.52845	151.37931	25.27999	0.1701223	0.28462721	2.2888558	21	2 5.7	19.8
129267 2005 QF_{124}	15.9	X	258.23735	139.65319	350.68892	1.22282	0.0357186	0.19364869	2.9588731	21	11 11.9	20.1
129268 2005 QK_{126}	16.0	X	21.56188	283.73787	142.40329	2.71523	0.0488213	0.20351422	2.8624608	21	—	—
129269 2005 QG_{145}	15.4	X	149.81237	220.35981	143.63833	10.18751	0.1773241	0.21400931	2.7680946	21	2 6.7	19.6
129270 2005 QS_{159}	16.0	X	134.14407	232.81806	108.00154	7.45049	0.1388315	0.27221427	2.3579185	21	—	—
129271 2005 QK_{161}	16.3	X	89.51219	341.14441	42.58386	6.72937	0.1154700	0.27036033	2.3686855	21	—	—
129272 2005 QD_{173}	16.2	X	84.98443	183.12897	188.92228	6.24185	0.1204420	0.26523332	2.3991128	21	—	—
129273 2005 QJ_{173}	15.2	X	334.15490	33.16355	299.88619	2.52409	0.1292880	0.17778365	3.1323828	21	7 27.9	18.8
129274 2005 QC_{176}	16.2	X	114.54601	331.14033	51.34792	3.53349	0.1703350	0.27156675	2.3616652	21	1 8.8	18.8
129275 2005 RJ_{4}	15.6	X	270.29946	266.16642	132.83914	0.62879	0.1150678	0.17473409	3.1687230	21	7 21.9	20.1
129276 2005 RJ_{8}	14.8	X	206.54035	65.61918	13.73575	16.86503	0.0629411	0.17092831	3.2155854	21	7 7.4	19.9
129277 Jianxinchen	15.6	X	255.70252	186.44715	155.15138	4.20042	0.2575901	0.22699623	2.6614825	21	4 8.1	19.9
129278 2005 RF_{10}	15.6	X	99.14482	23.95860	292.38696	0.92392	0.0367323	0.19932860	2.9023936	21	12 24.8	19.6
129279 2005 RL_{11}	15.3	X	141.66871	202.40467	226.37314	6.26086	0.2075545	0.21937741	2.7227522	21	4 20.1	19.6
129280 2005 RW_{20}	15.8	X	304.16898	38.42435	299.35472	10.63811	0.1844992	0.23649486	2.5897325	21	6 4.4	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129281 2005 RP_{21}	15.2	X	326.62854	140.59659	192.37137	12.43351	0.0928401	0.17906862	3.1173799	21	7 16.2	19.4
129282 2005 RN_{31}	14.1	X	307.50967	84.75901	247.15069	20.87220	0.0228265	0.17148428	3.2086315	21	6 25.4	18.7
129283 2005 RC_{33}	16.4	X	134.10944	201.72360	178.09473	6.48032	0.1387809	0.27539274	2.3397407	21	1 24.0	19.5
129284 2005 RX_{33}	15.0	X	244.43591	68.69319	325.17620	14.15841	0.1322861	0.23088263	2.6315313	21	6 11.9	19.2
129285 2005 SG_{4}	15.1	X	328.44622	136.51826	201.97447	4.20165	0.1740693	0.17648425	3.1477392	21	7 19.7	18.7
129286 2005 SW_{6}	16.9	X	70.46340	87.71274	341.97330	1.90349	0.1789631	0.26840374	2.3801830	21	—	—
129287 2005 SP_{14}	15.9	X	39.92220	14.80765	50.71176	2.82177	0.0603398	0.20278861	2.8692849	21	—	—
129288 2005 SO_{18}	15.5	X	32.74981	112.05891	217.65349	0.50680	0.1481943	0.18805473	3.0172633	21	11 3.2	19.2
129289 2005 SE_{41}	16.4	X	213.97713	97.32127	182.66247	5.78980	0.2250726	0.27584729	2.3371697	21	—	—
129290 2005 SQ_{47}	16.9	X	49.38822	115.86590	305.86041	1.78663	0.2028129	0.26426030	2.4049982	21	—	—
129291 2005 SJ_{60}	14.8	X	348.14202	322.10078	24.37251	5.85733	0.1670987	0.18052413	3.1006010	21	9 11.7	18.2
129292 2005 SD_{70}	15.7	X	179.92168	240.94394	94.65245	3.52703	0.0661741	0.21157832	2.7892574	21	1 26.1	19.7
129293 2005 SX_{75}	16.3	X	136.37558	237.69890	180.96148	5.09775	0.0364218	0.21967399	2.7203010	21	3 14.6	20.1
129294 2005 SX_{105}	15.0	X	270.45160	201.30884	177.81251	18.42146	0.2873744	0.23398853	2.6081927	21	6 4.6	19.4
129295 2005 SS_{111}	16.5	X	124.29209	56.84143	340.96517	3.72594	0.2184832	0.27359979	2.3499514	21	2 18.3	19.4
129296 2005 SB_{117}	15.6	X	161.75779	54.65607	15.54201	22.31137	0.0407813	0.22717547	2.6600824	21	4 23.7	19.6
129297 2005 SV_{125}	16.0	X	131.30719	338.55214	33.82927	7.59673	0.1332683	0.27292585	2.3538183	21	1 13.2	19.0
129298 2005 SW_{131}	15.1	X	326.90798	337.92005	356.55025	1.17112	0.1880103	0.17625721	3.1504417	21	7 10.8	18.7
129299 2005 SU_{148}	15.3	X	29.90028	164.14638	186.59891	8.92700	0.0958369	0.18821422	3.0155585	21	11 19.9	19.4
129300 2005 SY_{151}	15.5	X	73.13913	267.19338	204.40905	13.53034	0.1856165	0.21125334	2.7921173	21	3 19.9	18.9
129301 2005 ST_{152}	15.8	X	301.47327	193.45139	195.59994	10.01382	0.2001308	0.23910969	2.5708176	21	8 8.7	18.8
129302 2005 SE_{161}	16.5	X	107.12579	285.10631	197.42286	5.65051	0.1089304	0.28665541	2.2780467	21	5 6.2	19.1
129303 2005 SA_{164}	14.9	X	275.66453	274.07014	171.46018	8.20271	0.1534618	0.18023932	3.1038664	21	9 21.3	19.1
129304 2005 SL_{164}	14.6	X	356.67819	242.77427	48.92897	18.69333	0.2491140	0.17598170	3.1537291	21	7 11.1	17.9
129305 2005 SK_{167}	16.2	X	32.49213	348.15043	85.07674	7.86076	0.0823044	0.26443093	2.4039636	21	—	—
129306 2005 SX_{186}	16.1	X	172.79352	232.21669	81.81473	3.19584	0.2487677	0.27361561	2.3498608	21	—	—
129307 Tomconnors	15.0	X	151.42531	124.00885	14.01156	13.23809	0.1011302	0.22892049	2.6465469	21	7 24.4	19.2
129308 2005 SB_{193}	14.6	X	20.63831	354.16129	19.02770	15.71493	0.0347586	0.18882011	3.0091041	21	11 22.2	18.9
129309 2005 SJ_{194}	16.4	X	20.04570	215.32907	8.71352	3.32977	0.1119912	0.28889810	2.2662419	21	5 8.3	18.2
129310 2005 SC_{202}	15.7	X	282.90384	19.41132	282.38498	7.79552	0.1207514	0.22888862	2.6467927	21	3 25.7	19.7
129311 2005 SP_{203}	16.1	X	52.06481	99.59026	267.40551	6.66587	0.0766005	0.26017263	2.4301233	21	—	—
129312 Drouetdaubigny	14.8	X	325.58759	299.35673	18.50192	17.94226	0.1976826	0.17282004	3.1920767	21	6 10.5	18.9
129313 2005 SA_{218}	16.3	X	150.85825	249.09504	182.01998	6.54471	0.0856510	0.28341062	2.2954014	21	4 18.1	19.2
129314 Dathongolish	14.3	X	220.66209	127.89044	358.21592	27.07342	0.1546120	0.17660702	3.1462803	21	9 12.9	19.3
129315 2005 SS_{257}	14.5	X	12.02574	284.22627	21.99847	13.66908	0.1455903	0.17693561	3.1423837	21	9 4.3	18.4
129316 2005 TY_{14}	14.0	X	173.83164	243.02210	252.22785	20.96870	0.1245001	0.16894567	3.2406938	21	7 30.4	19.5
129317 2005 TM_{18}	16.4	X	123.39476	293.27838	104.95956	3.22964	0.2094217	0.27368004	2.3494920	21	2 17.1	19.3
129318 Sarahschlieder	15.9	X	174.09868	207.89379	132.04195	1.09676	0.0768852	0.21237316	2.7822937	21	1 25.2	20.1
129319 2005 TE_{23}	15.3	X	304.32890	105.21566	205.94103	13.48092	0.1290286	0.22912709	2.6449558	21	5 9.7	18.6
129320 2005 TV_{23}	15.6	X	187.93705	218.38273	142.05113	10.53445	0.2230710	0.21809456	2.7334187	21	3 11.5	20.3
129321 Tannercampbell	17.1	X	48.82605	20.50617	203.07322	3.75954	0.1349525	0.29267438	2.2467060	21	7 8.3	19.2
129322 2005 TN_{45}	16.5	X	269.36769	269.03144	17.16963	11.36869	0.2726419	0.28556662	2.2838334	21	2 7.8	20.5
129323 2005 TQ_{47}	15.8	X	85.78885	317.29723	343.58518	0.57112	0.0082019	0.18712411	3.0272588	21	11 14.7	19.9
129324 Johnweirich	16.7	X	195.82745	242.53692	56.63465	3.14121	0.2026744	0.27354837	2.3502458	21	—	—
129325 Jedhancock	14.4	X	37.68507	241.57261	65.46271	13.15331	0.2026563	0.18422482	3.0589376	21	10 24.7	18.4
129326 2005 TJ_{83}	15.4	X	300.22466	306.37970	25.63614	18.33498	0.3366438	0.23323422	2.6138131	21	4 25.8	19.2
129327 Davehamara	15.0	X	105.91371	212.68627	319.62717	12.26256	0.2114503	0.22867328	2.6484540	21	7 27.9	19.0
129328 Loriharrison	15.3	X	314.05279	56.55306	296.75083	9.25669	0.0226317	0.23511656	2.5998437	21	8 4.3	18.5
129329 2005 TW_{172}	16.9	X	213.33555	38.01391	341.83347	6.37189	0.1315744	0.28631348	2.2798600	21	4 16.0	20.3
129330 Karlharshman	15.5	X	324.93975	203.13361	215.08530	2.77534	0.0867235	0.18592518	3.0402589	21	11 6.7	19.2
129331 2005 UZ_{25}	16.0	X	240.64485	165.03986	48.67044	3.00893	0.1651680	0.26060990	2.4274042	21	—	—
129332 Markhunten	15.4	X	299.14283	283.29928	28.52333	12.09292	0.0644412	0.22680675	2.6629646	21	5 10.0	18.9
129333 Ashleylancaster	15.1	X	336.37375	351.95564	38.61499	1.35019	0.1858240	0.18177305	3.0863822	21	10 17.2	18.2
129334 2005 UN_{68}	16.9	X	196.14172	211.23210	133.60964	7.50560	0.1427669	0.27827530	2.3235549	21	2 17.3	20.3
129335 Edwardlittle	16.7	X	350.67719	8.54273	272.24811	5.64809	0.1579882	0.29651481	2.2272645	21	6 7.3	18.1
129336 2005 UC_{73}	15.2	X	191.06389	284.13288	213.71527	10.37177	0.2749532	0.23206280	2.6226018	21	8 21.0	20.1
129337 2005 UE_{74}	16.7	X	248.93847	149.17163	218.21856	4.60239	0.1278432	0.28886883	2.2663949	21	5 10.7	19.7
129338 Andrewlowman	15.0	X	14.27544	147.91453	218.31780	7.73811	0.0908289	0.18419404	3.0592784	21	11 14.9	18.8
129339 2005 UT_{109}	15.6	X	305.95554	70.15275	283.87066	3.24072	0.0875907	0.23295743	2.6158831	21	7 16.9	18.6
129340 2005 UR_{119}	15.5	X	266.42096	173.95692	31.33092	12.33263	0.0804075	0.20134347	2.8829981	21	—	—
129341 2005 UR_{131}	14.7	X	23.42588	228.09956	123.33073	13.34762	0.1857258	0.18553844	3.0444823	21	11 25.7	18.7
129342 Ependes	15.7	X	305.99312	189.43235	153.30953	5.08343	0.2230090	0.23289599	2.6163431	21	6 9.3	18.8
129343 2063 P–L	16.2	X	93.94850	211.48890	216.39078	3.58893	0.2356713	0.26545212	2.3977943	21	2 19.6	18.7
129344 2094 P–L	16.9	X	227.72483	17.26166	348.43267	1.54657	0.1343477	0.28595485	2.2817658	21	4 14.2	20.3
129345 2116 P–L	15.6	X	166.58235	165.01443	225.36562	6.74199	0.1442994	0.21912207	2.7248669	21	3 21.3	19.9
129346 2222 P–L	16.4	X	204.57763	117.17821	274.52417	2.23970	0.1893181	0.22098033	2.7095696	21	4 28.1	20.9
129347 2234 P–L	17.0	X	199.79127	21.64633	3.56540	7.02666	0.1448770	0.28535801	2.2849463	21	4 10.7	20.4
129348 2513 P–L	15.3	X	345.06336	72.90268	351.71013	1.71285	0.2202558	0.17856924	3.1231892	21	12 20.7	18.5
129349 2514 P–L	16.0	X	33.09645	322.22715	8.56589	11.88529	0.1845983	0.22759172	2.6568381	21	11 14.1	19.4
129350 2515 P–L	16.3	X	157.73154	5.59951	5.48073	6.55547	0.1351942	0.26669503	2.3903387	21	2 13.9	19.8
129351 2652 P–L	15.7	X	45.79572	229.40985	164.03590	1.20739	0.1452003	0.18094459	3.0957959	21	—	—
129352 2664 P–L	15.0	X	24.49202	54.96655	4.24385	8.11666	0.0878146	0.18133909	3.0913044	21	—	—
129353 2719 P–L	15.6	X	178.80906	224.64819	104.13212	2.01319	0.1580752	0.18477885	3.0528201	21	1 26.2	20.4
129354 2747 P–L	15.4	X	322.90088	76.81931	30.66184	5.78642	0.1959274	0.24561819	2.5251996	21	—	—
129355 3004 P–L	15.5	X	308.43127	44.86663	321.14513	11.07750	0.1934120	0.22481192	2.6786944	21	7 23.8	18.6
129356 3067 P–L	15.7	X	36.20912	63.57782	249.79298	5.08138	0.2545209	0.24355716	2.5394254	21	11 12.9	18.7
129357 3099 P–L	15.3	X	264.33997	79.33433	349.58215	28.73489	0.1577421	0.22460604	2.6803310	21	8 27.2	19.1
129358 3105 P–L	15.4	X	329.89719	192.69249	227.59146	9.93548	0.1157494	0.24404417	2.5360458	21	11 30.7	18.1
129359 4209 P–L	15.0	X	39.58107	15.20792	317.80768	4.60318	0.1506720	0.17960719	3.1111449	21	11 14.2	19.1
129360 4263 P–L	15.1	X	71.71121	49.79311	2.16765	10.55919	0.1197883	0.18312684	3.0711525	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129361 4324 *P–L*	15.3	X	160.35666	221.93003	344.39256	11.42971	0.1319609	0.22739344	2.6583823	21	10 19.6	19.7
129362 4327 *P–L*	14.7	X	239.15003	271.75236	194.47884	16.98206	0.1601313	0.17507425	3.1646173	21	8 30.2	19.8
129363 4330 *P–L*	16.9	X	143.78958	69.86243	311.89054	2.43341	0.1436732	0.26644242	2.3918492	21	2 10.8	20.1
129364 4719 *P–L*	17.2	X	124.78382	221.75518	163.92237	1.20081	0.1990270	0.26570669	2.3962625	21	1 31.9	20.3
129365 4751 *P–L*	16.9	X	230.82372	357.37244	356.55384	2.40307	0.2033205	0.26967680	2.3726863	21	3 31.5	20.7
129366 4752 *P–L*	16.3	X	200.45938	350.47777	346.03387	2.06396	0.1942157	0.21889269	2.7267702	21	2 19.1	20.8
129367 4795 *P–L*	15.8	X	121.69879	278.37084	169.74642	9.37598	0.2591860	0.21885733	2.7270639	21	5 3.5	20.2
129368 4823 *P–L*	15.9	X	326.66188	183.27566	145.70535	1.12439	0.1779862	0.17690236	3.1427775	21	7 3.7	19.6
129369 4909 *P–L*	17.2	X	175.26483	353.99615	36.88929	1.85960	0.1900863	0.26832554	2.3806454	21	3 30.6	20.9
129370 6258 *P–L*	15.3	X	43.74476	94.77853	218.28531	4.16263	0.1547411	0.17945217	3.1129363	21	10 28.1	19.4
129371 6266 *P–L*	16.5	X	69.13914	17.60913	330.90521	1.41393	0.2065777	0.26223198	2.4173838	21	—	—
129372 6291 *P–L*	17.0	X	150.29995	13.87468	286.89746	1.01340	0.2340941	0.26426990	2.4049400	21	—	—
129373 6318 *P–L*	15.9	X	184.41812	101.15169	350.65219	10.87951	0.1552528	0.22244579	2.6976561	21	6 25.8	20.4
129374 6340 *P–L*	15.9	X	149.93499	68.48149	334.06522	4.61852	0.0775707	0.21912395	2.7248513	21	3 14.6	19.9
129375 6350 *P–L*	16.3	X	299.38047	225.04646	220.13190	3.72095	0.2233265	0.24325200	2.5415487	21	10 28.4	18.5
129376 6357 *P–L*	15.9	X	206.83308	124.81339	190.50129	9.37033	0.1242760	0.21836816	2.7311350	21	1 27.3	20.3
129377 6716 *P–L*	15.1	X	164.63822	49.41113	14.04799	11.63293	0.0900352	0.20474881	2.8509425	21	4 26.7	19.4
129378 6729 *P–L*	14.8	X	240.88577	229.01946	3.89176	18.83747	0.1032223	0.18402310	3.0611726	21	—	—
129379 6799 *P–L*	16.3	X	329.68878	296.77548	123.22865	2.25755	0.1842380	0.24376596	2.5379750	21	12 1.7	18.5
129380 6839 *P–L*	15.9	X	108.99762	193.15338	106.23429	3.17819	0.1417157	0.24614221	2.5216143	21	12 30.5	19.9
129381 6850 *P–L*	15.6	X	188.65949	226.20205	111.89264	3.09048	0.0662886	0.20213725	2.8754455	21	2 9.0	19.8
129382 6852 *P–L*	16.3	X	45.89906	278.11536	130.50003	3.31750	0.2762797	0.19783266	2.9170064	21	—	—
129383 7623 *P–L*	16.3	X	106.44204	278.14121	129.31584	3.12751	0.2038435	0.26552932	2.3973295	21	2 6.7	18.8
129384 1218 *T–1*	16.7	X	141.55161	237.92364	345.21693	3.98527	0.0761448	0.30364350	2.1922667	21	11 3.0	19.5
129385 4041 *T–1*	15.8	X	182.21073	104.98648	22.07427	10.61605	0.1728897	0.22297053	2.6934220	21	8 10.8	20.4
129386 1027 *T–2*	15.5	X	265.70583	122.72757	178.76080	8.41661	0.1103644	0.19807032	2.9146726	21	3 14.8	19.9
129387 1129 *T–2*	15.7	X	336.01381	1.87069	349.27908	7.07905	0.2182551	0.22521437	2.6755023	21	8 25.9	17.8
129388 1149 *T–2*	16.7	X	273.75603	346.66192	6.74045	5.29112	0.1712693	0.28365310	2.2940930	21	5 13.9	19.9
129389 1285 *T–2*	16.3	X	50.31263	179.95565	183.05505	2.41639	0.1891398	0.31237195	2.1512359	21	—	—
129390 1291 *T–2*	15.9	X	317.32055	229.09061	213.39399	1.91971	0.2361983	0.18614605	3.0378536	21	11 16.1	18.7
129391 1319 *T–2*	16.3	X	197.35307	236.89246	198.37469	6.27492	0.1366278	0.28283966	2.2984895	21	6 15.7	19.7
129392 1339 *T–2*	14.9	X	100.67349	31.20551	12.13148	10.22337	0.0299776	0.19353366	2.9600454	21	1 16.9	19.1
129393 1362 *T–2*	16.2	X	195.79487	47.04439	10.74553	6.25823	0.1033347	0.28216344	2.3021603	21	5 19.9	19.5
129394 1402 *T–2*	16.3	X	336.16294	21.93541	338.58615	2.51804	0.1314234	0.24604057	2.5223087	21	9 15.2	18.6
129395 1421 *T–2*	17.2	X	300.03024	3.32081	8.56448	3.03222	0.1904389	0.28577281	2.2827347	21	7 18.7	19.4
129396 1424 *T–2*	17.1	X	202.47788	130.03353	277.85691	1.77186	0.1578224	0.28185360	2.3038472	21	5 14.3	20.7
129397 1508 *T–2*	16.3	X	187.96449	288.43350	352.71926	8.16893	0.1471478	0.27511778	2.3412993	21	—	—
129398 2109 *T–2*	16.5	X	228.94562	316.29869	356.70654	5.69800	0.1998076	0.27922240	2.3182977	21	2 8.7	20.2
129399 2186 *T–2*	15.2	X	172.58101	8.63994	9.89372	1.83164	0.0856244	0.19622501	2.9329172	21	3 14.3	19.7
129400 2321 *T–2*	17.5	X	278.50563	191.70843	174.90779	2.20882	0.2284533	0.28427547	2.2907435	21	6 1.2	20.5
129401 3098 *T–2*	16.5	X	321.53456	334.46420	24.01065	6.61368	0.1616779	0.28647287	2.2790143	21	8 18.1	18.4
129402 4093 *T–2*	15.6	X	245.37951	52.65683	48.94345	2.20952	0.1265318	0.24547029	2.5262137	21	9 14.2	18.9
129403 4185 *T–2*	15.9	X	243.52609	174.89778	180.24896	17.03182	0.2285476	0.24070843	2.5594217	21	4 16.3	20.2
129404 5021 *T–2*	15.8	X	353.01407	132.03824	286.45922	8.54827	0.2078677	0.18716324	3.0268368	21	12 30.5	19.1
129405 5046 *T–2*	15.4	X	115.52651	58.51583	316.52629	11.49195	0.1515930	0.21317859	2.7752812	21	1 12.6	19.2
129406 5092 *T–2*	16.6	X	199.15091	132.58259	307.59517	7.35896	0.1159926	0.28320487	2.2965130	21	6 25.2	19.9
129407 5177 *T–2*	15.2	X	64.09810	104.66272	238.71753	8.88702	0.1167809	0.18837891	3.0138007	21	12 24.4	19.5
129408 1045 *T–3*	14.8	X	135.15610	304.79563	331.45349	8.23703	0.0098011	0.18265021	3.0764930	21	12 12.8	19.3
129409 2033 *T–3*	16.6	X	192.90167	178.58065	240.87503	5.29833	0.1256316	0.28463755	2.2888004	21	5 20.5	19.9
129410 2150 *T–3*	15.1	X	13.15657	204.56408	223.86969	9.17503	0.0982715	0.18367101	3.0650835	21	—	—
129411 2154 *T–3*	16.8	X	291.15503	54.94733	343.01721	4.89250	0.1597794	0.28944516	2.2633855	21	8 18.9	18.9
129412 2160 *T–3*	15.2	X	351.52746	121.79786	253.12806	4.18950	0.1764530	0.17925902	3.1151721	21	10 23.9	18.5
129413 2226 *T–3*	16.5	X	55.05395	88.58303	346.53570	5.90824	0.0958940	0.25439391	2.4667866	21	—	—
129414 2231 *T–3*	16.2	X	227.61910	349.02683	308.72674	1.37285	0.2129994	0.25868025	2.4394610	21	1 21.2	20.3
129415 2277 *T–3*	16.8	X	254.35111	85.85565	340.66966	4.47509	0.1352551	0.28847876	2.2684375	21	8 9.4	19.6
129416 2291 *T–3*	16.8	X	282.42241	38.70046	352.30779	6.67891	0.1159536	0.28858620	2.2678744	21	8 2.5	19.4
129417 2613 *T–3*	15.6	X	200.55891	174.83910	271.80821	4.46478	0.0323245	0.21929592	2.7234266	21	7 8.8	19.3
129418 2617 *T–3*	15.6	X	46.31624	14.61744	326.70091	4.39571	0.1581330	0.18150399	3.0894317	21	12 5.3	19.8
129419 2619 *T–3*	14.5	X	200.40152	302.07282	204.50806	18.92312	0.1765072	0.17639357	3.1488179	21	9 9.4	19.9
129420 3114 *T–3*	15.3	X	335.32317	158.41170	187.33019	0.15718	0.1953810	0.17771127	3.1332333	21	8 11.5	18.7
129421 3147 *T–3*	15.9	X	321.94510	272.99961	58.64315	1.52391	0.2710152	0.17787142	3.1313524	21	6 14.5	19.5
129422 3223 *T–3*	15.9	X	189.63851	330.61615	35.58404	5.35792	0.1247448	0.21410096	2.7673046	21	3 17.7	20.2
129423 3379 *T–3*	16.6	X	247.25834	178.99944	180.79055	2.78656	0.2442171	0.21792242	2.7348580	21	4 24.0	21.2
129424 3415 *T–3*	14.9	X	62.56902	305.70290	33.82453	4.80387	0.3082198	0.18316333	3.0707446	21	—	—
129425 3497 *T–3*	15.9	X	254.84765	224.62437	169.94295	2.56657	0.0578984	0.24225353	2.5485274	21	7 5.0	19.2
129426 3516 *T–3*	16.1	X	144.82847	37.24602	16.73425	9.71540	0.2064561	0.21355604	2.7720101	21	4 6.0	20.3
129427 4123 *T–3*	15.1	X	247.47596	269.28452	189.31326	17.69750	0.2422243	0.17433220	3.1735911	21	8 20.2	20.3
129428 4164 *T–3*	15.9	X	285.36603	247.37212	113.31391	4.49898	0.1587169	0.28760181	2.2730464	21	6 12.7	18.6
129429 4289 *T–3*	15.1	X	273.98974	295.53889	137.40241	7.23594	0.2095125	0.17494401	3.1661877	21	8 25.7	19.4
129430 4305 *T–3*	15.4	X	318.62904	60.72187	36.45383	16.61964	0.2007792	0.18117088	3.0932174	21	12 6.6	18.9
129431 4355 *T–3*	16.5	X	338.82655	301.16371	56.72358	7.96252	0.2413965	0.24585426	2.5235828	21	9 20.8	18.3
129432 4506 *T–3*	15.2	X	342.30474	157.72051	45.75606	9.82674	0.0856614	0.21325400	2.7746269	21	2 22.6	18.9
129433 4608 *T–3*	16.9	X	141.52190	46.93343	66.92310	4.80521	0.1783114	0.28410327	2.2916690	21	6 12.2	20.3
129434 5013 *T–3*	15.8	X	195.68519	272.85019	110.76683	6.90875	0.0877601	0.21549896	2.7553235	21	4 14.9	20.1
129435 5017 *T–3*	15.7	X	223.98516	236.89654	136.93434	9.38549	0.1751966	0.21691896	2.7432857	21	4 28.3	20.3
129436 5039 *T–3*	14.7	X	62.11149	137.30613	155.68310	13.63034	0.1221707	0.18022519	3.1040287	21	10 26.3	19.2
129437 1978 *NG*	14.4	X	51.60277	56.29734	288.15511	13.68967	0.2650599	0.21136359	2.7911462	21	—	—
129438 1979 MO_3	15.7	X	59.94024	165.88250	137.73715	3.49759	0.1572984	0.21585457	2.7522965	21	11 13.1	19.5
129439 1980 PX_2	14.5	X	249.13245	250.93026	69.76871	21.07551	0.1520344	0.18547444	3.0451826	21	3 30.8	19.7
129440 1981 DC_1	15.3	X	227.23887	50.75231	211.10439	11.57955	0.1706192	0.23994696	2.5648337	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129441 1981 DJ_3	15.4	X	261.05249	175.93983	284.69908	6.85740	0.1790644	0.20882427	2.8137277	21	9 16.6	19.4
129442 1981 EC_{15}	15.8	X	285.44149	191.43756	337.72844	5.49577	0.1856366	0.23880122	2.5730310	21	—	—
129443 1981 EP_{21}	15.7	X	269.23412	260.62737	357.86079	11.39963	0.2459899	0.24258772	2.5461863	21	1 10.9	20.1
129444 1981 EN_{23}	16.9	X	92.11727	247.06287	342.52290	1.78531	0.1903798	0.27778085	2.3263114	21	9 25.1	20.1
129445 1981 EA_{24}	15.5	X	20.97417	262.98828	355.33880	7.35238	0.1792080	0.20104841	2.8858181	21	7 15.3	18.6
129446 1981 EB_{30}	14.7	X	234.38136	329.77765	344.71274	15.44022	0.1460310	0.24463049	2.5319920	21	2 21.5	18.7
129447 1981 EP_{33}	16.8	X	116.18683	7.23478	206.53005	6.28633	0.0614985	0.27902637	2.3193834	21	9 16.8	19.8
129448 1989 SX_1	16.3	X	288.48517	324.03587	48.86336	6.31984	0.2471484	0.27325659	2.3519186	21	6 19.9	19.2
129449 1990 WE_1	15.4	X	214.43736	12.55791	82.35104	11.70371	0.2546402	0.21412479	2.7670993	21	7 22.7	20.3
129450 1991 JM	16.5	X	149.06052	353.26095	64.30246	24.49681	0.1265457	0.39127778	1.8513105	21	4 5.0	19.2
129451 1991 KD	15.1	X	100.69460	117.00241	103.39926	23.06750	0.2813351	0.27042417	2.3683127	21	10 11.4	19.6
129452 1991 TJ_{16}	15.5	X	76.92009	333.45235	72.44923	7.12176	0.1577838	0.17406474	3.1768412	21	1 7.2	19.4
129453 1991 TQ_{16}	15.9	X	322.80009	231.76611	202.43411	14.15239	0.1081229	0.23137867	2.6277689	21	12 4.6	19.0
129454 1991 UQ_2	15.2	X	97.47457	319.61702	37.91658	13.17132	0.3058067	0.23911607	2.5707719	21	—	—
129455 1992 BR_2	15.7	X	197.02137	198.00552	256.40512	6.40122	0.2655072	0.21778723	2.7359896	21	7 6.6	20.5
129456 1992 DR_7	16.8	X	153.11565	104.46249	60.02907	2.50934	0.1354098	0.28279620	2.2987249	21	8 30.6	20.2
129457 1992 EH_5	16.1	X	162.69066	82.37100	107.04595	4.52964	0.1201499	0.28629883	2.2799378	21	10 13.9	19.4
129458 1992 EQ_6	16.0	X	252.67190	11.89247	125.67003	6.61025	0.0428660	0.29033238	2.2587720	21	12 2.7	18.6
129459 1992 ED_{10}	15.3	X	145.44461	335.55937	164.96145	8.22431	0.1613608	0.21371269	2.7706553	21	7 19.0	19.8
129460 1992 PW_2	15.3	X	321.63800	132.02087	215.63503	7.24917	0.3003783	0.20244515	2.8725293	21	6 30.5	18.3
129461 1993 FJ_5	16.2	X	254.75494	341.19316	159.51785	4.13194	0.1261894	0.23067254	2.6331289	21	11 15.3	19.6
129462 1993 FU_9	15.5	X	90.70533	111.10076	171.86528	12.74389	0.2569665	0.22478940	2.6788732	21	12 1.3	20.2
129463 1993 FA_{10}	16.1	X	198.50567	207.55507	34.12809	5.23571	0.2121845	0.23214391	2.6219909	21	—	—
129464 1993 FF_{23}	16.8	X	252.86450	50.18299	210.67955	3.54913	0.1620127	0.30838185	2.1697524	21	—	—
129465 1993 FC_{41}	15.5	X	202.14435	9.99675	180.16382	10.80014	0.1549411	0.22891809	2.6465655	21	11 14.3	19.7
129466 1993 FM_{44}	15.9	X	206.13658	45.84881	189.20988	4.74887	0.1055929	0.23288151	2.6164516	21	—	—
129467 1993 FM_{47}	15.6	X	13.31820	293.59618	8.52532	6.44961	0.1113409	0.22049804	2.7135192	21	8 28.8	18.6
129468 1993 FZ_{52}	16.9	X	255.66316	179.63231	39.02205	4.67676	0.0927147	0.30638082	2.1791895	21	—	—
129469 1993 FU_{69}	16.0	X	151.05852	33.23209	200.93637	10.97520	0.0998432	0.22741617	2.6582051	21	11 19.5	20.1
129470 1993 KC	16.0	X	193.10070	37.82311	228.32247	25.28125	0.3566487	0.30059701	2.2070539	21	—	—
129471 1993 OL_8	15.4	X	39.52926	175.29157	117.25365	12.19322	0.2272100	0.21534470	2.7566392	21	10 18.6	19.0
129472 1993 PS_5	15.3	X	237.28399	218.49164	164.99051	11.84944	0.2499521	0.20354717	2.8621518	21	5 16.9	20.3
129473 1993 TK	16.7	X	264.93934	351.93173	349.19398	5.33648	0.2494776	0.27349270	2.3505648	21	4 9.8	20.4
129474 1993 TF_{16}	15.5	X	65.26373	127.61616	193.23847	9.77600	0.2126707	0.21608606	2.7503305	21	12 16.0	19.8
129475 1993 TK_{16}	17.3	X	80.76618	168.81007	157.39599	2.09580	0.2020999	0.28887692	2.2663526	21	—	—
129476 1993 TN_{20}	16.3	X	297.19679	341.12944	28.68328	7.61900	0.1395132	0.27742127	2.3283212	21	7 21.0	18.9
129477 1993 TB_{26}	15.3	X	96.14326	351.37927	74.31793	3.58056	0.1630474	0.19070733	2.9892194	21	2 25.9	19.3
129478 1993 TU_{27}	15.9	X	184.14047	240.92965	128.23851	2.37983	0.2244825	0.19530065	2.9421643	21	3 19.6	20.9
129479 1993 TO_{41}	15.4	X	176.74813	322.26273	102.33492	3.26519	0.0325540	0.19947713	2.9009526	21	5 13.2	19.6
129480 1993 UQ_8	16.0	X	19.67636	235.62043	174.69312	8.59531	0.2773635	0.18033777	3.1027367	21	—	—
129481 1994 CL_{15}	15.7	X	268.64280	46.72206	73.60137	2.55937	0.1141983	0.24019407	2.5630743	21	11 10.5	18.9
129482 1994 GL_4	14.8	X	47.46662	236.41236	201.99442	9.01350	0.0718177	0.17437510	3.1730706	21	—	—
129483 1994 GO_8	15.2	X	51.45334	344.87920	349.42763	13.25773	0.1894547	0.23537668	2.5979279	21	12 17.7	19.1
129484 1994 PG_{15}	15.9	X	147.05704	146.31829	171.52203	2.81925	0.1442705	0.23367525	2.6105233	21	—	—
129485 1994 PM_{30}	16.3	X	228.65277	139.34303	187.96601	6.54232	0.1889461	0.24277317	2.5448895	21	2 27.2	20.5
129486 1994 PN_{30}	16.1	X	170.86938	10.40331	278.28049	3.64986	0.2416751	0.23477703	2.6023497	21	—	—
129487 1994 RX_{14}	16.0	X	101.57189	356.60425	337.81179	0.90351	0.2241673	0.23059028	2.6337551	21	—	—
129488 1994 SW_2	15.3	X	58.97593	231.37494	349.89307	7.08296	0.1572739	0.21361042	2.7715396	21	7 26.9	18.8
129489 1994 TN_5	15.6	X	88.54807	0.99775	170.07028	3.89933	0.0334618	0.20976894	2.8052738	21	6 9.3	19.4
129490 1994 TP_{10}	16.0	X	168.74382	78.39925	198.82113	12.65265	0.2559299	0.23206731	2.6225679	21	—	—
129491 1994 TA_{12}	15.1	X	109.98504	292.94687	31.50279	11.72452	0.2095306	0.22805808	2.6532147	21	—	—
129492 1994 TF_{13}	15.6	X	237.13836	250.65356	197.93486	12.08682	0.0941489	0.21508643	2.7588454	21	8 15.5	19.7
129493 1995 BM_2	15.4	X	166.29323	268.29416	247.90275	20.66203	0.3068144	0.27948555	2.3168423	21	8 20.9	20.2
129494 1995 BB_{15}	16.1	X	38.74076	172.76141	142.63102	7.66210	0.1782438	0.28355687	2.2946120	21	11 17.4	18.9
129495 1995 DP_6	16.8	X	300.28600	238.50828	146.00750	3.22199	0.1665770	0.27959215	2.3162534	21	8 11.4	19.1
129496 1995 EK	15.7	X	187.19174	105.42191	11.71787	8.42983	0.1621396	0.27740244	2.3284265	21	8 3.1	19.5
129497 1995 FA_3	16.1	X	146.32651	300.37903	85.40220	2.89750	0.0733414	0.18806918	3.0171088	21	2 24.0	20.6
129498 1995 FF_4	15.8	X	198.65270	185.37734	139.62037	4.29881	0.1046005	0.18590285	3.0405024	21	2 6.5	20.4
129499 1995 FG_6	16.4	X	165.47629	105.90129	8.97945	5.65843	0.1007029	0.27457347	2.3443926	21	7 5.9	19.8
129500 1995 GW_2	15.2	X	316.87549	138.01912	29.02892	14.19844	0.2232715	0.18158637	3.0884972	21	—	—
129501 1995 HJ_5	16.1	X	222.54522	182.50784	164.38733	3.89239	0.1176755	0.26164465	2.4210001	21	3 19.4	19.6
129502 1995 MT_6	15.1	X	224.21481	126.87939	117.03986	10.42375	0.0490631	0.17489359	3.1667963	21	—	—
129503 1995 OZ_1	16.0	X	349.00934	144.70420	147.36024	14.29372	0.2855169	0.26427286	2.4049221	21	6 14.3	17.8
129504 1995 SU_8	16.8	X	282.17730	155.95527	167.40803	1.95929	0.2237811	0.25724487	2.4485270	21	4 10.4	20.3
129505 1995 SE_{24}	16.2	X	313.73153	57.07736	24.64796	4.64580	0.1956916	0.23049144	2.6345080	21	11 22.6	18.4
129506 1995 SJ_{32}	16.2	X	7.14516	290.26937	185.10923	1.22664	0.1093556	0.24301080	2.5432301	21	—	—
129507 1995 SU_{45}	16.4	X	299.45095	221.43967	171.16808	2.38598	0.2116881	0.22591114	2.6699981	21	8 10.3	19.4
129508 1995 SO_{52}	16.7	X	281.57138	284.80777	208.55169	2.49965	0.0761409	0.23276599	2.6173172	21	12 20.1	19.9
129509 1995 ST_{52}	16.5	X	113.58727	275.45338	27.20426	3.37606	0.0660924	0.23358622	2.6111866	21	—	—
129510 1995 SQ_{85}	15.9	X	297.48425	344.95497	199.15188	3.73428	0.1217064	0.24000178	2.5644432	21	—	—
129511 1995 TN_7	16.3	X	223.32581	140.16082	279.76549	1.25097	0.1799531	0.25582124	2.4576026	21	6 19.6	20.1
129512 1995 UZ_1	16.2	X	1.22041	110.49825	257.63973	0.39286	0.1129180	0.22901806	2.6457952	21	11 8.0	19.1
129513 1995 UD_{10}	16.1	X	48.76788	18.06680	346.42631	1.14096	0.1847624	0.23444377	2.6048152	21	—	—
129514 1995 UJ_{13}	17.0	X	156.51366	312.09760	21.51291	5.23679	0.2652457	0.24337112	2.5407193	21	1 12.8	21.1
129515 1995 UX_{17}	16.4	X	155.96051	245.99126	331.03018	2.93984	0.0332241	0.23036714	2.6354555	21	11 1.9	20.2
129516 1995 UR_{22}	15.8	X	111.27677	307.45199	25.36206	14.61308	0.1221983	0.23731728	2.5837459	21	—	—
129517 1995 UM_{31}	15.2	X	263.47883	97.84411	25.70917	15.21008	0.0647012	0.22964235	2.6409980	21	11 9.2	18.8
129518 1995 VU_{11}	16.1	X	75.65184	172.59756	151.43265	4.36211	0.1807759	0.23274164	2.6174998	21	12 29.2	20.1
129519 1995 VG_{16}	15.3	X	255.23775	179.21460	56.96442	14.12613	0.2500633	0.23859342	2.5745248	21	—	—
129520 1995 WP_3	16.1	X	124.11672	138.77798	225.63942	1.64652	0.1667638	0.23948863	2.5681051	21	1 4.5	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129521 1995 WH_{40}	15.9	X	244.65818	63.36235	75.00541	13.95312	0.1511115	0.22544860	2.6736488	21	10 29.9	19.8
129522 1995 XY_3	16.2	X	187.22103	166.11454	120.44938	4.46449	0.0681484	0.23706691	2.5855648	21	—	—
129523 1995 XY_4	16.3	X	304.90246	352.83644	149.13746	4.35896	0.0478386	0.23277176	2.6172740	21	—	—
129524 1995 YK_8	17.1	X	169.83844	275.09893	72.27785	4.03258	0.1658687	0.24326122	2.5414845	21	2 2.1	21.1
129525 1996 AG_{11}	16.7	X	169.52378	353.48648	275.00078	3.46538	0.0105579	0.30469290	2.1872302	21	—	—
129526 1996 AZ_{11}	16.2	X	343.84782	155.78274	207.24483	5.65476	0.0394213	0.21694299	2.7430831	21	9 27.9	19.7
129527 1996 AJ_{14}	16.3	X	318.44636	158.69414	230.00905	1.69866	0.2103680	0.22429014	2.6828471	21	9 10.7	18.9
129528 1996 BQ_8	15.4	X	10.65217	236.61686	119.19094	10.56957	0.1468317	0.21878151	2.7276939	21	11 12.9	18.7
129529 1996 EM_7	15.9	X	253.76613	147.75753	164.96004	2.12949	0.0681840	0.19785520	2.9167849	21	3 20.4	20.1
129530 1996 EB_9	15.6	X	70.75946	121.53573	155.69168	7.54362	0.0544155	0.21442911	2.7644807	21	10 10.2	19.4
129531 1996 EX_9	16.0	X	113.55238	346.14124	132.78446	3.18506	0.1976317	0.20401915	2.8577359	21	5 26.3	20.3
129532 1996 EO_{13}	17.0	X	312.42300	65.59724	357.71432	7.20591	0.1059050	0.29588130	2.2304425	21	11 12.9	19.0
129533 1996 EN_{14}	16.3	X	61.23302	17.05294	151.34932	2.42785	0.0232424	0.20239769	2.8729784	21	4 29.3	20.1
129534 1996 HA_5	15.0	X	354.24361	283.83051	31.35372	14.97480	0.1608903	0.20479698	2.8504955	21	8 18.8	18.3
129535 1996 HH_7	15.8	X	281.47506	295.36834	61.16346	3.83022	0.0749382	0.20285854	2.8686255	21	6 16.9	19.6
129536 1996 JQ_6	15.3	X	113.17863	196.48965	206.94747	12.00452	0.0739222	0.18893414	3.0078932	21	2 2.1	19.8
129537 1996 KA_2	15.7	X	80.67087	170.49571	189.11442	4.74419	0.1588802	0.29649875	2.2273449	21	—	—
129538 1996 NM	14.9	X	204.55772	232.70486	104.81421	7.77102	0.2222056	0.18304384	3.0720808	21	3 1.5	20.2
129539 1996 NO_1	16.2	X	89.87009	39.75736	241.79040	6.16938	0.2237273	0.28425618	2.2908471	21	12 2.1	19.6
129540 1996 PU_2	16.4	X	359.10666	46.30919	246.74485	1.70299	0.2335155	0.27550923	2.3390811	21	7 21.8	17.6
129541 1996 PQ_9	14.8	X	36.29431	97.73402	328.13218	19.62917	0.3008444	0.28733122	2.2744733	21	—	—
129542 1996 RK_5	13.9	X	133.07321	137.10424	198.38066	10.86007	0.1030916	0.17128535	3.2111153	21	—	—
129543 1996 RU_5	16.8	X	315.45011	238.48740	102.59501	1.85915	0.2195773	0.27253684	2.3560576	21	6 22.3	19.0
129544 1996 RE_{24}	16.2	X	244.53120	355.35718	4.84281	5.12120	0.2466967	0.26590046	2.3950982	21	4 17.3	20.1
129545 1996 SE_3	16.2	X	308.81607	161.30190	162.93642	6.28780	0.1602557	0.27078157	2.3662283	21	5 27.5	18.8
129546 1996 TZ_1	16.3	X	309.33156	153.27993	15.94295	19.46239	0.0204018	0.37020378	1.9209180	21	—	—
129547 1996 TC_6	16.1	X	44.63171	113.20270	201.18335	5.42096	0.1678148	0.27727104	2.3291621	21	11 19.4	19.0
129548 1996 TC_7	17.0	X	45.90249	280.43340	19.93968	2.04073	0.2286975	0.27930333	2.3178499	21	11 10.4	19.9
129549 1996 TG_9	16.6	X	1.61410	2.23494	245.52995	1.59533	0.1857793	0.26416006	2.4056066	21	5 8.2	18.2
129550 Fukuten	16.6	X	30.77255	137.56797	191.76799	2.70730	0.2403107	0.27864598	2.3214938	21	12 2.3	19.2
129551 1996 TQ_{19}	15.0	X	147.89954	71.33459	248.67847	6.21526	0.0762792	0.17186848	3.2038479	21	—	—
129552 1996 TH_{30}	16.9	X	254.77697	330.64191	41.29634	1.95769	0.1948148	0.26592798	2.3949330	21	5 17.2	20.3
129553 1996 TZ_{45}	14.7	X	243.40851	286.95263	37.63700	18.20112	0.1404329	0.18018717	3.1044653	21	3 26.8	19.8
129554 1996 TC_{63}	15.4	X	189.23143	221.01299	179.59917	13.79309	0.1098555	0.26341132	2.4101631	21	4 25.2	19.1
129555 Armazones	16.3	X	285.74323	135.44415	238.03482	4.25727	0.1669121	0.27025950	2.3692746	21	6 30.4	19.1
129556 1996 VY_5	16.5	X	161.52196	330.03821	67.23145	2.33952	0.1770621	0.25689104	2.4507748	21	3 26.8	20.4
129557 1996 XA_1	15.5	X	29.87466	2.54284	40.14540	5.52404	0.1590595	0.24121591	2.5558307	21	—	—
129558 1996 XQ_8	17.1	X	13.42672	286.13676	40.07429	14.18519	0.3411224	0.27601752	2.3362086	21	11 15.7	19.1
129559 1996 YH	14.8	X	4.88292	182.56806	281.11644	12.41941	0.1095548	0.24139376	2.5545752	21	—	—
129560 1997 CW_{12}	16.4	X	190.44078	233.70187	29.39051	4.98061	0.0763540	0.23568250	2.5956801	21	—	—
129561 Chuhachi	16.3	X	217.85460	248.00804	5.43373	2.24744	0.1041443	0.23748718	2.5825135	21	—	—
129562 1997 CJ_{23}	16.3	X	279.91159	114.48299	128.61226	3.73825	0.0416504	0.24572865	2.5244427	21	1 17.8	19.5
129563 1997 ER_8	16.4	X	282.91074	271.51271	174.24231	3.75748	0.2572235	0.23026600	2.6362272	21	9 20.8	19.5
129564 Christy	15.8	X	133.54415	79.26734	181.23374	14.34322	0.0806168	0.22535523	2.6743872	21	12 3.5	20.0
129565 1997 GS_1	16.3	X	66.31266	46.28980	226.28753	1.06336	0.0335784	0.22013538	2.7164986	21	9 23.2	19.7
129566 1997 GS_8	15.8	X	332.18689	131.52167	180.64062	2.22087	0.0583368	0.21281371	2.7784526	21	7 2.1	19.3
129567 1997 GR_9	15.7	X	159.83206	208.25028	2.71049	7.84498	0.1213964	0.22285674	2.6943388	21	10 26.8	20.0
129568 1997 GE_{11}	15.9	X	295.25734	254.58897	209.92037	3.25991	0.1810740	0.22894655	2.6463461	21	11 20.4	18.7
129569 1997 GJ_{21}	15.6	X	111.63638	51.51393	209.41132	15.83509	0.1414066	0.22009989	2.7167906	21	11 13.8	19.9
129570 1997 GE_{34}	15.9	X	76.80235	132.35817	150.21002	3.23368	0.1578911	0.21976527	2.7195477	21	11 6.7	19.8
129571 1997 GS_{35}	14.9	X	132.82457	346.22568	221.03937	8.94941	0.1311284	0.21750479	2.7383576	21	9 25.6	19.2
129572 1997 GF_{44}	15.4	X	86.60842	309.66556	219.43195	14.73416	0.1637660	0.20932915	2.8092016	21	6 22.3	19.5
129573 1997 HY_1	15.9	X	33.82848	220.19650	8.68059	0.18191	0.2519411	0.20861351	2.8156226	21	7 6.5	18.4
129574 1997 JU_8	16.0	X	303.14474	96.68138	116.32402	6.89729	0.0348671	0.23750911	2.5823545	21	1 10.9	19.4
129575 1997 LM	14.8	X	6.14699	221.69732	83.77229	17.10676	0.2187165	0.21034470	2.8001524	21	9 3.9	17.9
129576 1997 RG_2	16.1	X	266.18949	6.21124	42.53815	3.65642	0.0927486	0.28138425	2.3064083	21	8 7.4	18.8
129577 1997 RA_8	16.5	X	233.23225	50.18301	279.16366	1.51269	0.2365716	0.27388480	2.3483208	21	3 1.5	20.5
129578 1997 RM_{10}	17.1	X	253.10987	329.20551	236.13100	1.78717	0.0864791	0.30271262	2.1967587	21	—	—
129579 1997 SF_1	15.9	X	316.75481	205.73448	197.73830	24.14958	0.2550593	0.28684191	2.2770591	21	10 10.7	17.0
129580 1997 SV_3	14.9	X	81.28810	24.85313	357.70958	8.24519	0.3605096	0.21680871	2.7442157	21	1 3.7	17.6
129581 1997 SB_6	14.9	X	122.08955	354.65397	357.23381	10.14827	0.1131360	0.17960518	3.1111681	21	—	—
129582 1997 SC_9	15.8	X	303.39437	153.76073	245.09908	3.49811	0.1377135	0.28573222	2.2829509	21	9 12.8	18.1
129583 1997 SV_{14}	12.7	X	335.36544	139.82492	292.39469	3.95922	0.0878439	0.08424578	5.1535199	21	11 18.2	19.2
129584 1997 SY_{17}	17.3	X	176.27404	256.16013	166.42324	2.40436	0.2151828	0.27408376	2.3471842	21	5 11.5	21.1
129585 1997 SM_{21}	17.4	X	159.78360	160.69295	16.14477	4.38771	0.0858840	0.28416061	2.2913607	21	9 22.6	20.6
129586 1997 TE_{18}	14.4	X	173.31985	294.43534	20.90046	17.83961	0.1441084	0.17937214	3.1138622	21	1 8.3	19.7
129587 1997 TH_{21}	17.4	X	181.67902	56.36780	17.43018	3.24662	0.1599690	0.27434027	2.3457209	21	5 28.4	21.0
129588 1997 TN_{21}	16.5	X	173.94424	230.63550	25.22026	5.42896	0.1519061	0.29710339	2.2243219	21	—	—
129589 1997 UD	16.1	X	337.56581	207.08441	202.11841	6.15862	0.0525903	0.29118979	2.2543358	21	12 6.9	18.5
129590 1997 UN	15.1	X	205.89037	309.97801	30.49796	11.36728	0.1204306	0.18631609	3.0360050	21	3 8.2	20.0
129591 1997 UL_{12}	16.9	X	195.11078	43.54897	27.75331	3.61486	0.1590151	0.27643504	2.3338556	21	6 7.3	20.4
129592 1997 UP_{24}	16.5	X	18.33199	110.53282	214.06369	2.96532	0.1447177	0.28968314	2.2621457	21	10 22.1	18.7
129593 1997 UZ_{24}	15.1	X	285.51977	22.55317	194.37847	11.04422	0.0943627	0.18298233	3.0727693	21	—	—
129594 1997 UP_{25}	16.8	X	316.75081	219.88955	179.60131	0.83183	0.2335475	0.28770696	2.2724925	21	10 5.9	17.8
129595 Vand	16.8	X	201.66648	31.67743	81.27569	2.86335	0.1534783	0.27920528	2.3183925	21	8 10.2	20.3
129596 1997 VR_1	15.7	X	283.69784	304.84069	50.64604	23.36748	0.2196321	0.27898609	2.3196067	21	5 21.4	18.8
129597 1997 VT_1	16.4	X	23.84373	134.77172	221.12458	3.73405	0.1629658	0.28978709	2.2616047	21	12 18.7	18.9
129598 1997 VL_3	15.8	X	211.22003	337.71778	88.05992	3.35678	0.2317416	0.27544827	2.3394262	21	6 13.2	19.7
129599 1997 VD_8	16.8	X	228.08358	101.69810	304.04139	1.95841	0.1610126	0.27567952	2.3381178	21	6 6.3	20.1
129600 1997 WZ_1	15.8	X	345.02001	265.87915	168.76731	3.82874	0.0988095	0.29331954	2.2434104	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129601 1997 WE_9	16.1	X	137.23353	84.95228	40.41124	5.70803	0.2513634	0.27235164	2.3571256	21	6 29.2	20.0
129602 1997 WA_{12}	12.1	X	90.50826	79.44611	225.41733	16.61239	0.0317882	0.08102999	5.2889831	21	11 12.1	19.0
129603 1997 WF_{12}	16.6	X	138.74050	65.39509	71.29102	3.09793	0.1525616	0.26995668	2.3710461	21	7 8.7	20.0
129604 1997 WL_{12}	17.4	X	129.37467	137.78962	308.86442	1.01643	0.1560667	0.26905856	2.3763196	21	4 21.4	20.7
129605 1997 WH_{29}	15.3	X	16.58487	200.40068	240.38623	8.16003	0.0699639	0.17362233	3.1822356	21	—	—
129606 1997 WU_{57}	16.8	X	348.91635	253.01534	156.71310	3.11881	0.1576367	0.29120042	2.2542810	21	—	—
129607 1997 WE_{58}	16.9	X	269.26187	243.90157	144.35132	2.27671	0.2175283	0.28002031	2.3138917	21	6 21.6	20.0
129608 1997 YQ_8	16.8	X	176.90184	10.24075	56.45373	3.54369	0.1648426	0.26906904	2.3762578	21	5 15.5	20.6
129609 1997 YO_{16}	15.7	X	298.02971	186.68347	283.33143	3.24180	0.2185304	0.24504268	2.5291518	21	12 3.4	17.7
129610 1998 AA_1	16.0	X	98.02877	34.25408	103.20810	5.58744	0.2399211	0.26400827	2.4065286	21	6 5.3	19.2
129611 1998 AE_2	16.2	X	287.06093	3.55035	294.35321	1.70626	0.1882494	0.26555608	2.3971684	21	3 15.8	19.7
129612 1998 AS_2	16.8	X	42.74547	297.65849	308.95664	1.77087	0.1919798	0.27028183	2.3691441	21	8 12.6	19.2
129613 1998 BR_6	16.5	X	209.39213	306.68570	122.47547	4.34964	0.2729910	0.27291034	2.3539075	21	6 14.8	20.7
129614 1998 BB_{25}	14.8	X	224.51945	224.80185	348.67236	5.31426	0.0548780	0.24425327	2.5345982	21	—	—
129615 1998 BP_{30}	16.3	X	20.82182	358.16865	238.32860	5.76531	0.0861556	0.26768700	2.3844297	21	6 1.2	18.7
129616 1998 BP_{34}	16.5	X	305.71961	229.26093	27.75158	1.99008	0.1080527	0.25775008	2.4453264	21	2 26.6	19.5
129617 1998 BV_{41}	16.4	X	331.94912	164.83432	1.07489	5.61860	0.0829045	0.25175630	2.4839860	21	—	—
129618 1998 DS_{11}	15.8	X	129.38458	345.62256	149.89115	7.96567	0.1320924	0.26589309	2.3951425	21	6 24.9	19.4
129619 1998 DR_{17}	16.0	X	186.48576	268.74042	141.48653	6.91312	0.0982210	0.26412511	2.4058188	21	5 4.9	19.6
129620 1998 EA_3	16.0	X	274.75048	64.02022	56.71114	5.04949	0.1927638	0.24090474	2.5580311	21	11 8.2	18.9
129621 1998 ES_5	15.6	X	244.22562	189.05366	129.29314	3.06002	0.1870205	0.25805931	2.4433725	21	3 2.2	19.5
129622 1998 FV_2	16.4	X	39.14839	350.60158	226.48408	5.26293	0.0863192	0.26377716	2.4079341	21	6 4.8	19.0
129623 1998 FS_{20}	16.0	X	41.76188	95.65293	102.88352	3.17677	0.1517352	0.26140953	2.4224516	21	5 20.2	18.1
129624 1998 FT_{25}	15.8	X	231.16824	35.67508	177.06326	12.78432	0.2217900	0.24168748	2.5525051	21	—	—
129625 1998 FJ_{133}	15.6	X	192.21410	204.04468	346.86769	4.12568	0.0957624	0.23610118	2.5926105	21	11 7.4	19.5
129626 1998 HN_1	16.5	X	263.45858	287.12648	208.28568	21.22035	0.0813319	0.36384843	1.9432218	21	12 26.6	18.7
129627 1998 HA_3	16.3	X	158.99915	267.42549	37.10657	21.66431	0.0768501	0.36781618	1.9292218	21	—	—
129628 1998 HH_{12}	15.6	X	19.98342	35.36708	26.05433	23.15197	0.0861366	0.24009112	2.5638069	21	—	—
129629 1998 HW_{31}	16.7	X	303.00415	130.05685	44.50828	21.07901	0.0736917	0.37135284	1.9169534	21	—	—
129630 1998 HK_{32}	16.0	X	266.64850	343.23094	205.50923	4.21908	0.1712554	0.24264053	2.5458168	21	—	—
129631 1998 HF_{35}	15.5	X	216.62059	130.26914	82.82001	5.45298	0.0496598	0.23929370	2.5694995	21	—	—
129632 1998 HV_{36}	16.0	X	257.02437	35.37991	201.95609	6.48307	0.2090366	0.24519328	2.5281161	21	—	—
129633 1998 HD_{38}	16.0	X	256.45467	15.89333	231.95077	3.98175	0.1414322	0.24646110	2.5194387	21	—	—
129634 1998 HP_{43}	14.1	X	342.27825	106.80375	111.49576	2.58322	0.1847805	0.12658182	3.9284553	21	3 14.1	18.9
129635 1998 HN_{53}	16.2	X	10.44910	17.36151	183.45211	2.26768	0.1390079	0.25572103	2.4582445	21	3 18.4	18.3
129636 1998 HF_{89}	15.5	X	8.66157	64.30519	42.74496	5.83367	0.1110632	0.24464738	2.5318755	21	—	—
129637 1998 HH_{96}	15.8	X	237.58188	164.83881	85.74998	5.19917	0.1825761	0.24331587	2.5411039	21	—	—
129638 1998 HE_{137}	16.1	X	17.04797	50.32947	122.07714	5.38675	0.1250842	0.25428108	2.4675162	21	2 19.6	18.5
129639 1998 HS_{150}	15.7	X	197.90916	190.68605	85.26475	5.71317	0.2561935	0.23971817	2.5664654	21	—	—
129640 1998 KB_1	16.2	X	255.07803	95.88298	160.34380	11.90302	0.1400279	0.24458195	2.5323270	21	—	—
129641 1998 KC_1	15.6	X	23.66396	121.73747	216.79904	13.25562	0.2844207	0.26891290	2.3771776	21	12 9.7	18.5
129642 1998 KU_5	15.6	X	7.01287	242.84240	146.42653	14.74598	0.1272032	0.22997846	2.6384241	21	12 19.5	19.0
129643 1998 KH_6	16.6	X	239.00338	325.18991	224.55960	20.00819	0.0568148	0.36507801	1.9388562	21	—	—
129644 1998 KQ_8	16.3	X	258.45742	144.81798	95.77953	10.35180	0.2495836	0.24400405	2.5363238	21	—	—
129645 1998 KA_{22}	16.3	X	351.35172	125.54765	119.79446	0.28016	0.1790922	0.25593308	2.4568865	21	4 13.0	18.5
129646 1998 KR_{26}	14.3	X	278.51900	203.79418	220.06043	29.69418	0.1570445	0.22349274	2.6892247	21	8 20.6	18.6
129647 1998 LX_2	15.6	X	222.90846	114.41603	151.47532	8.12060	0.1767960	0.24036475	2.5618608	21	—	—
129648 1998 MB_4	15.2	X	41.67098	240.62104	116.73554	11.40225	0.1521175	0.18090753	3.0962186	21	12 19.2	19.5
129649 1998 MM_4	15.9	X	190.88252	92.51850	167.94915	11.11803	0.2647416	0.23593392	2.5938357	21	—	—
129650 1998 MC_{19}	15.5	X	205.74746	161.73326	104.44203	14.79252	0.1364067	0.23897788	2.5717628	21	—	—
129651 1998 MF_{24}	16.1	X	172.24023	124.85890	128.95163	4.52822	0.1230735	0.23058903	2.6337646	21	—	—
129652 1998 OA_4	15.8	X	77.40606	92.79416	215.27271	2.62441	0.0423314	0.22377557	2.6869583	21	11 24.4	19.4
129653 1998 QL_3	15.5	X	56.64458	54.58659	343.83546	18.46458	0.0827909	0.35791207	1.9646498	21	—	—
129654 1998 QA_{12}	15.9	X	3.59943	162.14706	197.39488	4.99176	0.2283231	0.21863588	2.7289051	21	11 12.9	18.4
129655 1998 QT_{15}	15.0	X	164.32236	75.59473	305.98556	9.75401	0.2090499	0.23764460	2.5813729	21	3 8.9	19.3
129656 1998 QO_{16}	15.6	X	137.56032	137.58343	159.34853	12.65302	0.2752936	0.23005785	2.6378171	21	—	—
129657 1998 QQ_{33}	15.7	X	148.90341	138.50552	168.80389	12.01128	0.2833316	0.23159482	2.6261337	21	—	—
129658 1998 QV_{44}	16.1	X	69.09223	138.62222	193.33615	3.51169	0.2254111	0.22330237	2.6907530	21	—	—
129659 1998 QZ_{44}	15.2	X	10.08724	168.23812	181.45413	9.68253	0.1708087	0.21747404	2.7386157	21	11 4.4	18.2
129660 1998 QJ_{51}	14.8	X	346.64887	241.70310	166.65746	26.60069	0.2565216	0.17490109	3.1667058	21	12 7.1	18.5
129661 1998 QR_{54}	15.8	X	74.78708	126.31289	181.79191	13.41619	0.3657409	0.22264340	2.6960596	21	12 24.0	20.7
129662 1998 QJ_{57}	16.2	X	303.15947	318.14683	302.49580	0.93133	0.0412764	0.19860546	2.9094345	21	3 17.8	20.0
129663 1998 QS_{57}	15.9	X	317.79347	41.92164	335.63841	2.02536	0.1320643	0.21296310	2.7771530	21	9 1.6	19.1
129664 1998 QS_{80}	14.7	X	319.10489	159.52966	241.33347	14.77962	0.2665151	0.21583851	2.7524330	21	9 15.2	17.5
129665 1998 QX_{84}	16.1	X	135.24738	125.38559	185.69759	12.48373	0.2801673	0.23005745	2.6378202	21	—	—
129666 1998 QT_{97}	16.9	X	75.17384	122.19629	188.66316	22.11617	0.1109027	0.35084224	1.9909551	21	12 25.9	20.0
129667 1998 QY_{104}	14.8	X	352.58438	286.68240	21.42416	12.46579	0.2089034	0.21133092	2.7914339	21	8 1.7	17.6
129668 1998 QE_{111}	15.6	X	126.43711	134.80925	156.82071	15.49266	0.1908113	0.22806172	2.6531865	21	—	—
129669 1998 RY	15.7	X	171.83765	156.54015	232.74345	3.43262	0.3025844	0.23864403	2.5741608	21	3 31.6	20.3
129670 1998 RU_6	15.1	X	103.58858	308.49783	344.81374	11.94088	0.1426491	0.22414860	2.6839764	21	12 13.9	19.5
129671 1998 RA_{23}	15.4	X	164.23774	284.90594	101.44190	3.87387	0.2484976	0.23917747	2.5703319	21	3 22.8	19.7
129672 1998 RR_{24}	15.8	X	33.05512	175.00157	185.34539	5.34193	0.1691923	0.22144449	2.7057819	21	12 22.3	19.3
129673 1998 RN_{27}	15.4	X	258.20952	161.76729	180.53015	15.44271	0.1496252	0.20371207	2.8606071	21	4 24.0	19.9
129674 1998 RQ_{36}	15.8	X	358.00040	144.01214	197.40224	9.12044	0.1641492	0.21501234	2.7594792	21	9 26.0	18.6
129675 1998 RV_{36}	15.6	X	347.41975	140.72707	207.03534	8.20002	0.1640476	0.21419630	2.7664834	21	9 11.9	18.6
129676 1998 RM_{42}	15.7	X	208.13536	103.13036	238.71402	3.92443	0.2896967	0.24015852	2.5633272	21	2 27.6	20.4
129677 1998 RZ_{43}	16.4	X	132.46426	168.87184	144.30477	4.83233	0.2433106	0.22912008	2.6450098	21	—	—
129678 1998 RQ_{50}	15.5	X	10.45409	150.21214	199.41048	0.68411	0.1034601	0.21682630	2.7440672	21	10 25.6	18.6
129679 1998 RP_{57}	15.5	X	94.74118	265.74606	130.35492	2.45781	0.2563667	0.18737772	3.0245267	21	1 31.3	19.4
129680 1998 RF_{58}	15.6	X	9.25065	144.92907	178.29950	4.25384	0.0712679	0.21344143	2.7730023	21	9 13.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129681 1998 RB_{60}	15.4	X	35.67812	166.63064	193.74371	9.65485	0.2455510	0.22041990	2.7141604	21	—	—
129682 1998 RQ_{67}	16.0	X	166.65570	137.87445	240.83812	2.90133	0.2073224	0.23737406	2.5833339	21	3 10.1	20.2
129683 1998 RO_{71}	15.4	X	342.67281	345.94385	22.70991	6.46652	0.1235665	0.21470394	2.7621211	21	10 5.9	18.3
129684 1998 RD_{73}	15.8	X	316.12644	198.32985	191.37010	8.94755	0.2422582	0.21251663	2.7810413	21	8 30.4	18.6
129685 1998 RX_{75}	16.1	X	129.16383	273.53729	102.49016	2.08892	0.2450247	0.18943310	3.0026092	21	2 12.4	20.8
129686 1998 RB_{78}	15.3	X	227.45294	354.92030	14.52343	17.75472	0.1283417	0.20094967	2.8867633	21	4 22.1	20.0
129687 1998 SO_{8}	16.3	X	220.83000	172.92895	185.20480	8.14449	0.3067820	0.24239705	2.5475214	21	3 28.5	20.8
129688 1998 SK_{14}	14.9	X	193.40616	7.08013	356.13962	24.99019	0.2828705	0.19781951	2.9171357	21	3 18.5	20.1
129689 1998 SN_{15}	15.4	X	165.32658	176.30338	217.83430	1.33195	0.0673450	0.19729538	2.9222999	21	3 23.6	19.7
129690 1998 SF_{16}	15.4	X	180.84505	261.20376	177.47132	1.98851	0.0626444	0.20402274	2.8577024	21	6 4.9	19.7
129691 1998 SH_{16}	16.1	X	219.80802	29.02148	359.05401	1.60822	0.0807336	0.20295963	2.8676728	21	5 13.6	20.4
129692 1998 SR_{25}	15.5	X	164.68464	284.17856	72.09911	5.07889	0.2298107	0.23473465	2.6026629	21	2 14.7	19.9
129693 1998 SW_{39}	14.9	X	79.01725	241.58196	189.50894	10.47637	0.0882426	0.18903562	3.0068166	21	1 26.1	19.0
129694 1998 SP_{46}	15.6	X	33.40082	285.98941	24.21467	8.88578	0.1851052	0.21402641	2.7679472	21	10 19.5	18.9
129695 1998 SY_{46}	17.4	X	337.24135	260.22194	160.70183	0.31101	0.1530118	0.30386385	2.1912068	21	—	—
129696 1998 SG_{62}	15.5	X	213.43532	67.94039	241.62865	8.70530	0.2688423	0.23788502	2.5796333	21	1 24.5	20.3
129697 1998 SO_{69}	15.7	X	94.84406	98.03931	221.29828	8.41338	0.1567937	0.22445541	2.6815300	21	—	—
129698 1998 SH_{77}	15.0	X	350.71002	41.66238	278.26574	3.32449	0.0681144	0.21113442	2.7931656	21	8 9.9	18.4
129699 1998 SN_{82}	15.4	X	305.69698	36.32672	242.39576	5.00711	0.0328765	0.20009761	2.8949526	21	4 13.1	19.4
129700 1998 SS_{89}	15.3	X	0.39574	43.06414	357.74646	4.54293	0.1500112	0.17638418	3.1489297	21	12 10.6	19.1
129701 1998 SL_{93}	15.6	X	207.42872	320.95771	18.21424	1.80153	0.1090943	0.19543408	2.9408250	21	3 2.8	20.2
129702 1998 SH_{118}	15.6	X	124.04839	102.51524	198.31006	13.17439	0.2734563	0.22599444	2.6693420	21	—	—
129703 1998 SU_{120}	15.4	X	53.05027	239.15436	33.87276	12.55878	0.1226554	0.21305123	2.7763871	21	9 24.3	19.1
129704 1998 SG_{124}	14.4	X	328.11521	63.35095	20.42005	16.44462	0.2321524	0.17542464	3.1604019	21	12 4.7	17.8
129705 1998 SV_{135}	15.1	X	184.32675	249.82909	33.78851	12.34536	0.2597982	0.23105046	2.6302568	21	—	—
129706 1998 SZ_{143}	14.7	X	169.69853	151.40119	207.46999	8.49125	0.0677844	0.19109525	2.9851727	21	2 12.2	19.3
129707 1998 SM_{147}	14.9	X	190.95310	296.02462	81.06392	3.26578	0.1036485	0.19560418	2.9391199	21	4 2.2	19.5
129708 1998 SM_{150}	16.8	X	151.67704	163.54707	212.71109	2.31402	0.1946179	0.23557181	2.5964931	21	2 21.3	20.9
129709 1998 SW_{157}	15.6	X	164.72959	168.84397	248.31031	3.60976	0.1313543	0.19777198	2.9176031	21	4 23.6	20.3
129710 1998 SX_{159}	15.7	X	19.33392	246.61630	89.84569	4.66085	0.1005173	0.21523619	2.7575656	21	10 23.3	19.0
129711 1998 SH_{168}	15.7	X	216.43450	200.31433	98.27267	6.01262	0.1611450	0.23791528	2.5794146	21	1 16.1	19.7
129712 1998 TH_{3}	15.9	X	222.41076	319.61204	32.42360	12.44768	0.3045124	0.24209939	2.5496090	21	3 26.2	20.7
129713 1998 TR_{4}	15.1	X	84.60863	246.63359	1.29275	12.02265	0.2183219	0.21557054	2.7547135	21	10 6.7	19.3
129714 1998 TE_{19}	14.9	X	146.95866	329.82736	20.79928	11.07710	0.1080967	0.18732736	3.0250687	21	1 19.5	19.6
129715 1998 TW_{24}	15.8	X	44.18711	70.54344	196.49687	4.21775	0.1597066	0.21052294	2.7985717	21	9 2.2	19.3
129716 1998 TA_{28}	15.7	X	95.69084	198.68124	183.58064	1.58682	0.0377900	0.18669453	3.0319008	21	—	—
129717 1998 TT_{34}	15.0	X	208.00591	252.77112	122.96741	3.02727	0.1342618	0.19765114	2.9187921	21	4 16.4	19.6
129718 1998 UR_{13}	15.7	X	275.15272	166.04876	205.13120	5.86530	0.0998455	0.20457927	2.8525174	21	6 24.0	19.8
129719 1998 UG_{14}	16.1	X	20.41257	345.13798	131.10610	1.52128	0.1629507	0.18388323	3.0627247	21	—	—
129720 1998 UZ_{30}	14.9	X	352.12724	282.60988	72.17788	13.76740	0.1562034	0.21178034	2.7874834	21	10 11.9	18.1
129721 1998 VU_{2}	15.8	X	176.18726	4.34786	45.66857	2.57879	0.0899144	0.19559386	2.9392232	21	4 25.7	20.4
129722 1998 VK_{19}	15.0	X	130.88938	156.89681	195.15909	7.62990	0.0969899	0.18478209	3.0527843	21	—	—
129723 1998 VU_{19}	15.0	X	343.17567	131.15537	207.18531	20.17754	0.2368671	0.21060902	2.7978091	21	8 11.7	18.1
129724 1998 VV_{33}	15.5	X	351.08980	47.49427	52.72084	3.52103	0.1478778	0.17828463	3.1265121	21	—	—
129725 1998 VQ_{34}	15.2	X	279.11448	138.97207	239.63312	8.41884	0.2280163	0.20556837	2.8433601	21	6 19.9	19.3
129726 1998 VP_{37}	15.1	X	167.92419	88.57227	228.72381	11.49903	0.2147015	0.23025151	2.6363378	21	—	—
129727 1998 VX_{49}	15.2	X	122.96555	340.97982	36.40622	3.13336	0.1427788	0.18644766	3.0345765	21	1 27.6	19.5
129728 1998 WT_{9}	15.3	X	130.09316	358.84748	14.41484	18.20507	0.1937801	0.23044889	2.6348322	21	2 5.3	19.5
129729 1998 WB_{19}	15.7	X	154.73818	285.67340	77.35529	6.90859	0.2834749	0.23272535	2.6176219	21	2 19.5	20.2
129730 1998 WF_{21}	15.7	X	98.34385	141.63073	259.58901	5.87858	0.2322816	0.22874162	2.6479265	21	1 28.4	18.9
129731 1998 WC_{28}	14.9	X	111.78705	321.93754	54.49101	2.50611	0.1637185	0.18475560	3.0530762	21	1 16.3	19.1
129732 1998 WP_{33}	15.0	X	41.52788	234.41759	216.45634	8.19207	0.2421449	0.18226956	3.0807748	21	1 4.5	18.1
129733 1998 XM_{13}	14.6	X	144.17448	91.18492	231.89390	7.28812	0.0994395	0.18175984	3.0865318	21	—	—
129734 1998 XY_{24}	15.0	X	22.47944	255.91156	77.83126	12.74440	0.2094862	0.21307438	2.7761860	21	11 10.2	18.3
129735 1998 YU	16.1	X	63.06330	120.76163	310.86102	1.94319	0.1504650	0.31138981	2.1557569	21	—	—
129736 1998 YW_{21}	16.4	X	180.25395	8.11206	297.45679	4.44271	0.1574214	0.30773464	2.1727935	21	—	—
129737 1999 AA_{9}	16.6	X	155.96976	334.97754	95.54969	4.43875	0.2661679	0.32492824	2.0954521	21	5 5.3	20.0
129738 1999 BT	14.5	X	63.94347	91.41745	284.75180	11.38803	0.1874872	0.21724621	2.7405301	21	—	—
129739 1999 CA_{9}	16.1	X	168.59792	131.98273	144.23175	0.68846	0.1726262	0.29894576	2.2151737	21	—	—
129740 1999 CK_{34}	15.6	X	326.31945	122.02444	335.77571	4.46687	0.0753112	0.29901926	2.2148107	21	—	—
129741 1999 CT_{51}	15.4	X	9.37953	72.60565	40.87228	4.07691	0.0396979	0.30485731	2.1864437	21	—	—
129742 1999 CU_{65}	14.9	X	338.50837	265.95357	148.74003	17.78112	0.1855101	0.20941739	2.8084124	21	12 5.4	18.2
129743 1999 CF_{82}	16.7	X	274.39985	43.05323	101.54294	2.67811	0.0883205	0.29855641	2.2170992	21	—	—
129744 1999 CP_{108}	15.8	X	5.33882	178.51405	263.82014	6.07358	0.1027061	0.30263238	2.1971470	21	—	—
129745 1999 CX_{109}	16.3	X	311.77163	244.57113	247.68533	5.64746	0.0696310	0.30099467	2.2051096	21	—	—
129746 1999 CE_{119}	8.4	X	13.13502	35.44182	171.60632	1.47467	0.2681475	0.00399593	39.3300447	21	5 11.1	23.0
129747 1999 CZ_{133}	16.9	X	301.00893	338.05968	140.60985	2.08722	0.0930614	0.29840131	2.2178674	21	—	—
129748 1999 CB_{136}	16.3	X	104.79974	65.29660	155.14570	5.80623	0.1434165	0.28253748	2.3001280	21	9 23.8	19.4
129749 1999 CJ_{137}	15.1	X	203.77185	316.93948	152.37119	5.86205	0.0493874	0.15221760	3.4739706	21	8 7.8	20.2
129750 1999 CA_{143}	16.8	X	109.60256	156.72553	341.27465	4.39446	0.1584255	0.27677257	2.3319578	21	6 7.1	19.9
129751 1999 CP_{145}	17.2	X	247.83205	70.65605	335.94350	1.54373	0.1628068	0.28273581	2.2990522	21	6 29.1	20.3
129752 1999 CX_{146}	17.2	X	92.97238	93.86754	270.82535	0.58640	0.0407633	0.30094308	2.2053616	21	—	—
129753 1999 DG_{3}	15.6	X	57.93342	60.04014	316.83156	5.68280	0.1719525	0.30127090	2.2037615	21	—	—
129754 1999 EE	15.8	X	354.55911	7.45048	58.92896	3.21456	0.1698650	0.29787465	2.2204808	21	—	—
129755 1999 EK_{8}	16.6	X	15.60041	0.43817	329.22706	3.78895	0.2258836	0.28837558	2.2689786	21	11 6.2	18.6
129756 1999 EG_{13}	16.7	X	98.57300	167.47648	132.06064	2.23544	0.0731573	0.29411935	2.2393414	21	12 24.8	19.5
129757 1999 FX_{3}	17.6	X	275.30543	108.72984	340.39892	0.73786	0.0859589	0.29161440	2.2521470	21	10 20.7	20.0
129758 1999 FG_{44}	16.0	X	139.64399	40.73405	165.28522	6.57358	0.0454718	0.28632892	2.2797781	21	10 8.7	18.9
129759 1999 FU_{60}	16.6	X	179.23890	20.10993	208.25946	4.16194	0.2359168	0.29202954	2.2500121	21	12 10.5	20.3
129760 1999 GO_{2}	16.6	X	118.69862	160.78286	68.42083	5.33506	0.1999501	0.28317590	2.2966696	21	10 23.5	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129761 1999 GL_6	15.0	X	90.04025	105.96376	192.98449	10.82395	0.2355819	0.28291850	2.2980624	21	12 23.6	18.9
129762 1999 GZ_{10}	16.7	X	73.43488	248.84034	32.13218	4.02715	0.0410586	0.28475954	2.2881467	21	10 24.1	19.2
129763 1999 GD_{11}	16.5	X	200.95512	303.89667	187.93072	5.19719	0.1007162	0.28450499	2.2895113	21	9 6.0	19.6
129764 1999 GK_{25}	15.8	X	3.37363	99.67074	148.29818	5.13301	0.1957758	0.27141524	2.3625439	21	5 13.9	17.5
129765 1999 GG_{36}	16.2	X	151.87294	220.07611	3.47084	5.16102	0.1570649	0.28671911	2.2777093	21	11 11.5	19.9
129766 1999 GC_{43}	16.5	X	82.78387	185.20439	39.00600	4.77276	0.1784988	0.27864838	2.3214805	21	9 8.7	19.6
129767 1999 GT_{53}	16.2	X	71.34832	348.47067	281.50805	5.60428	0.2146671	0.28058882	2.3107651	21	10 27.1	19.5
129768 1999 GG_{61}	15.8	X	148.78204	253.48708	15.41247	23.75841	0.2505846	0.28923844	2.2644638	21	—	—
129769 1999 HN	16.4	X	72.43857	315.68818	241.28765	2.82062	0.1097262	0.27419809	2.3465317	21	7 3.1	19.1
129770 1999 HV	15.3	X	23.13381	243.09147	65.90458	22.77837	0.2262992	0.27702501	2.3305409	21	10 29.5	18.0
129771 1999 HQ_1	15.9	X	85.00566	258.00420	28.75438	9.01827	0.1555581	0.28431426	2.2905351	21	11 26.7	19.3
129772 1999 HR_{11}	7.2	X	2.76770	133.75675	83.35907	3.30156	0.0335809	0.00341827	43.6446981	21	5 1.1	23.4
129773 Catmerrill	16.5	X	54.99315	59.41954	197.17009	6.05224	0.1826017	0.27754124	2.3276501	21	9 14.3	19.1
129774 1999 JM_5	15.7	X	164.30378	281.89599	234.70844	20.93170	0.2614916	0.28084219	2.3093751	21	8 21.0	20.3
129775 1999 JU_{11}	15.0	X	169.89518	30.76574	87.74795	25.91243	0.2403699	0.27688195	2.3313436	21	7 16.4	19.2
129776 1999 JL_{13}	15.1	X	331.69496	60.33518	233.19589	23.29990	0.2267264	0.26977213	2.3721273	21	5 8.0	17.1
129777 1999 JO_{23}	16.0	X	65.66877	228.75211	55.44770	3.91327	0.2427218	0.28008261	2.3135486	21	11 14.1	19.1
129778 1999 JY_{35}	16.4	X	60.78178	161.19608	90.59567	4.60700	0.1893043	0.27653135	2.3333137	21	9 20.8	19.3
129779 1999 JV_{38}	16.3	X	161.11050	286.00825	16.50170	4.31373	0.1928878	0.29336133	2.2431973	21	—	—
129780 1999 JJ_{42}	16.5	X	23.49096	242.01884	60.64901	5.15429	0.2331194	0.27587541	2.3370108	21	10 13.4	18.6
129781 1999 JK_{46}	16.5	X	175.05524	114.71124	185.09411	4.54216	0.1739817	0.29479654	2.2359108	21	—	—
129782 1999 JJ_{53}	15.7	X	317.97466	145.44441	101.80334	7.17936	0.0563053	0.26337098	2.4104092	21	3 12.0	18.7
129783 1999 JG_{55}	16.1	X	292.56871	124.18133	169.30265	4.49348	0.1928487	0.26385188	2.4074794	21	3 17.0	19.2
129784 1999 JB_{57}	16.3	X	155.09308	240.75476	47.57815	5.07001	0.2053560	0.29057654	2.2575065	21	—	—
129785 1999 JF_{64}	16.0	X	75.71837	215.78361	63.66497	12.87891	0.2731300	0.27917270	2.3185729	21	11 21.0	19.7
129786 1999 JU_{64}	16.2	X	162.68791	34.68199	224.62325	5.17601	0.1795312	0.28875601	2.2669853	21	—	—
129787 1999 JZ_{71}	15.9	X	123.75148	75.59609	100.61332	4.54045	0.0707691	0.27678118	2.3319094	21	8 8.4	18.9
129788 1999 JV_{73}	15.9	X	8.19585	151.17915	91.01198	7.12996	0.0872585	0.26939408	2.3743460	21	5 19.0	18.3
129789 1999 JT_{85}	16.0	X	159.81465	41.27787	167.04635	4.67064	0.0950138	0.28466163	2.2886713	21	11 4.1	19.2
129790 1999 JN_{108}	16.0	X	13.90975	185.92119	44.10609	6.70982	0.0687112	0.26906757	2.3762665	21	5 8.9	18.3
129791 1999 JC_{109}	16.8	X	97.29095	148.65930	47.35145	3.26041	0.1503478	0.27592019	2.3367579	21	8 13.4	20.0
129792 1999 JR_{110}	16.7	X	22.66150	216.72164	44.39103	2.85105	0.1986669	0.27257095	2.3558610	21	7 27.6	18.4
129793 1999 JH_{111}	16.6	X	98.66673	158.36411	108.32932	6.43075	0.1818987	0.28179234	2.3041810	21	11 19.9	20.2
129794 1999 JT_{116}	16.6	X	52.83878	340.80676	299.19155	1.25025	0.2071570	0.27732184	2.3288776	21	10 18.9	19.5
129795 1999 JP_{118}	16.1	X	258.72286	101.77985	89.71291	5.00799	0.0867150	0.29427657	2.2385438	21	—	—
129796 1999 JE_{121}	16.5	X	59.71618	139.15662	164.16719	4.66983	0.2591678	0.27927069	2.3180305	21	12 4.7	19.9
129797 1999 JW_{123}	16.5	X	82.28473	186.43481	31.93930	3.13496	0.1504331	0.27628388	2.3347068	21	8 25.9	19.4
129798 1999 JL_{129}	16.1	X	346.96251	152.13626	119.21891	7.13621	0.1125208	0.26928474	2.3749887	21	5 23.4	18.5
129799 1999 JT_{130}	16.4	X	13.17775	152.14965	128.93047	5.95683	0.1213996	0.27447327	2.3449631	21	7 29.7	18.4
129800 1999 JS_{131}	15.9	X	160.64625	70.33856	91.64063	7.57704	0.0488314	0.27766899	2.3269361	21	9 5.6	19.1
129801 Tommcmahon	16.9	X	48.99857	158.48500	94.45801	3.17976	0.1999998	0.27495405	2.3422287	21	9 5.7	19.4
129802 1999 KP_5	17.2	X	106.09077	32.36299	218.10544	7.36709	0.2438657	0.28107690	2.3080893	21	11 8.7	21.0
129803 1999 KF_9	16.8	X	205.31266	164.38629	105.59231	5.44155	0.1151924	0.29698094	2.2249333	21	—	—
129804 1999 KG_{10}	16.3	X	244.05366	47.30001	248.91761	1.48431	0.1767083	0.25824272	2.4422155	21	2 2.4	20.3
129805 1999 KR_{10}	16.8	X	42.75578	59.39637	228.84023	1.68721	0.2247987	0.27652436	2.3333530	21	10 19.6	19.5
129806 1999 KL_{11}	16.7	X	35.18841	160.21393	120.23266	3.71388	0.1673067	0.27513289	2.3412136	21	9 18.3	19.0
129807 Stefanodougherty	16.4	X	301.55460	92.34125	181.42601	2.09632	0.1691007	0.26379029	2.4078542	21	3 4.4	19.6
129808 1999 KF_{18}	16.1	X	331.17197	118.35838	173.05730	12.25142	0.2315129	0.26934461	2.3746368	21	5 6.6	18.5
129809 1999 LO_{20}	16.2	X	340.69479	32.38956	263.51562	1.36843	0.1897071	0.26913057	2.3758957	21	6 7.9	17.9
129810 1999 LD_{26}	16.2	X	130.75148	177.93543	95.03701	12.70317	0.2406293	0.28526033	2.2854679	21	12 24.9	20.0
129811 Stacyoliver	16.7	X	188.77373	154.62068	100.31548	5.15469	0.1067907	0.29167180	2.2518515	21	—	—
129812 1999 MA_1	16.4	X	359.97178	135.31734	93.99606	3.25223	0.1572896	0.26308658	2.4121460	21	4 9.2	18.5
129813 1999 NJ	16.8	X	46.04751	199.27617	104.23924	6.40350	0.2937584	0.27546074	2.3393556	21	11 25.1	19.9
129814 1999 NU_5	16.2	X	222.15000	218.34055	151.17304	2.78723	0.2151526	0.25797533	2.4439028	21	4 14.4	20.3
129815 1999 NV_5	15.8	X	160.35317	10.22043	288.42135	8.76813	0.1541338	0.28896811	2.2658758	21	—	—
129816 1999 NC_{23}	16.3	X	331.23599	99.22519	237.83979	1.83213	0.2291735	0.26882318	2.3777065	21	7 20.3	17.9
129817 1999 NE_{25}	16.2	X	131.92835	174.48366	74.80289	6.01447	0.2245492	0.28224658	2.3017082	21	11 27.3	20.0
129818 1999 NE_{28}	16.0	X	15.75562	255.66900	80.34162	5.66901	0.2526731	0.27405378	2.3473554	21	11 20.2	18.2
129819 1999 NN_{30}	16.4	X	303.15838	238.29243	84.88025	3.12434	0.1903151	0.26424171	2.4051111	21	5 11.4	19.2
129820 1999 NQ_{51}	16.3	X	7.96882	106.87621	162.94576	13.18625	0.2469939	0.26861513	2.3789340	21	7 5.1	18.0
129821 1999 ND_{53}	15.1	X	76.89031	178.40131	182.78575	12.78002	0.2304299	0.23829791	2.5766527	21	—	—
129822 1999 NV_{53}	15.4	X	348.71684	191.01005	172.06413	13.62503	0.2765451	0.22692643	2.6620283	21	10 23.9	17.4
129823 1999 NJ_{55}	16.0	X	103.25485	33.81401	267.92363	11.12353	0.2134302	0.28131033	2.3068123	21	—	—
129824 1999 NT_{55}	16.1	X	107.99949	100.06226	221.49415	7.28148	0.2181342	0.28331945	2.2958938	21	—	—
129825 1999 NA_{56}	14.6	X	11.10104	165.21871	229.29724	12.51297	0.1881759	0.23250445	2.6192796	21	—	—
129826 1999 NM_{56}	14.6	X	285.66672	117.92255	264.81180	12.36721	0.2165140	0.22012622	2.7165739	21	7 4.7	18.3
129827 1999 NQ_{56}	16.0	X	21.46044	25.60023	263.91460	8.31165	0.2793380	0.27006326	2.3704222	21	9 18.3	18.2
129828 1999 PZ_3	16.7	X	64.32891	130.42137	339.88736	20.58671	0.0926012	0.38501669	1.8713270	21	1 11.8	18.4
129829 1999 RP	16.4	X	223.34233	266.98492	64.67077	3.71496	0.1987570	0.25265443	2.4780959	21	3 1.9	20.5
129830 1999 RQ_3	16.0	X	227.49684	132.05056	210.67244	5.79359	0.1326839	0.25568531	2.4584735	21	3 17.2	19.7
129831 1999 RQ_7	16.3	X	189.25524	262.50773	23.37239	2.99765	0.1560756	0.24219760	2.5489197	21	—	—
129832 1999 RC_8	17.0	X	261.40380	159.28782	184.15869	2.24004	0.2097277	0.25853275	2.4403887	21	4 16.3	20.5
129833 1999 RC_{11}	16.2	X	17.57806	246.75856	43.90696	2.55738	0.2234992	0.26957290	2.3732959	21	9 8.2	18.0
129834 1999 RV_{13}	15.9	X	197.21404	184.11166	108.57142	2.99626	0.1206404	0.24561463	2.5252239	21	—	—
129835 1999 RW_{13}	16.4	X	0.84551	177.76431	106.65288	2.58037	0.1776223	0.26590701	2.3950589	21	7 9.8	18.1
129836 1999 RL_{16}	16.5	X	124.45927	336.47605	350.05110	2.02300	0.1916786	0.23982468	2.5657055	21	—	—
129837 1999 RR_{16}	16.0	X	246.06709	179.49248	162.82290	6.63267	0.1583789	0.25642356	2.4537526	21	4 5.6	19.8
129838 1999 RS_{20}	16.1	X	220.45582	96.41444	257.50960	1.84737	0.1928483	0.25354795	2.4722705	21	3 23.7	20.2
129839 1999 RH_{21}	16.0	X	46.61120	347.25655	6.68577	7.93546	0.2031080	0.23181088	2.6245016	21	—	—
129840 1999 RU_{21}	15.5	X	116.24528	314.43442	3.75662	11.91812	0.1984295	0.23745528	2.5827448	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129841 1999 RG_{25}	15.0	X	267.13614	60.19804	345.79852	8.52288	0.1981811	0.21812698	2.7331478	21	7 18.1	18.9
129842 1999 RT_{25}	16.6	X	104.46751	134.40203	199.39392	4.35171	0.2639255	0.23717260	2.5847966	21	—	—
129843 1999 RY_{25}	16.3	X	59.15682	17.28274	16.34360	5.12432	0.2514626	0.23575132	2.5951749	21	—	—
129844 1999 RC_{26}	16.1	X	159.23072	212.85395	137.74713	3.50779	0.1972708	0.24501753	2.5293248	21	1 28.0	19.9
129845 1999 RG_{27}	16.7	X	74.24099	23.26542	4.49467	22.64929	0.1743705	0.37295789	1.9114496	21	—	—
129846 1999 RO_{29}	16.2	X	240.65862	170.44905	194.88807	15.45367	0.2662472	0.25805105	2.4434247	21	4 22.1	20.4
129847 1999 RH_{40}	15.9	X	288.82016	21.58760	285.32815	8.02931	0.1452432	0.25893590	2.4378550	21	4 1.6	19.4
129848 1999 RY_{48}	15.5	X	63.32353	245.68495	125.18051	4.32719	0.3204035	0.23615953	2.5921835	21	—	—
129849 1999 RX_{55}	16.2	X	73.80937	297.77747	51.54306	2.82094	0.2479226	0.28126558	2.3070570	21	—	—
129850 1999 RW_{63}	16.2	X	243.95618	162.60375	163.47713	6.30816	0.1418041	0.25515151	2.4619012	21	3 14.2	20.0
129851 1999 RV_{65}	16.3	X	254.51485	116.18669	187.10053	6.41611	0.1266540	0.25395100	2.4696539	21	2 23.5	20.1
129852 1999 RN_{91}	16.2	X	301.44237	264.06628	144.77921	2.65600	0.2051647	0.26795132	2.3828614	21	9 14.6	18.1
129853 1999 RJ_{94}	16.2	X	266.10482	154.12182	156.75786	9.68254	0.2605775	0.25577450	2.4579019	21	3 7.2	20.1
129854 1999 RT_{94}	15.7	X	312.44903	281.13932	94.03140	2.49327	0.1156998	0.22120005	2.7077749	21	8 23.7	18.9
129855 1999 RX_{96}	16.9	X	238.38125	160.90494	172.70537	1.93836	0.2248578	0.25437007	2.4669407	21	3 13.7	21.1
129856 1999 RX_{101}	15.1	X	313.35048	87.49528	297.89760	9.45052	0.2211764	0.22377918	2.6869294	21	8 21.5	17.9
129857 1999 RR_{107}	16.4	X	293.96001	72.07788	226.04389	5.41760	0.1299125	0.25800952	2.4436869	21	4 1.7	19.7
129858 1999 RW_{113}	15.5	X	155.91888	107.65382	213.17316	11.91567	0.1127505	0.24303246	2.5430790	21	—	—
129859 1999 RV_{115}	16.4	X	30.13835	58.56765	315.02842	3.74261	0.2433146	0.27808723	2.3246024	21	—	—
129860 1999 RJ_{139}	15.7	X	233.45029	151.46745	158.61412	6.48207	0.1318407	0.25267198	2.4779811	21	2 11.8	19.6
129861 1999 RM_{142}	15.9	X	139.01448	260.96463	117.60128	3.57896	0.0964059	0.24566465	2.5248811	21	1 29.9	19.2
129862 1999 RN_{155}	16.8	X	75.43857	42.75141	262.52781	3.43211	0.2504508	0.27743772	2.3282291	21	12 19.7	20.5
129863 1999 RJ_{157}	15.8	X	240.98202	175.05120	143.71310	8.06910	0.1604247	0.25397526	2.4694966	21	3 1.8	19.6
129864 1999 RJ_{161}	16.5	X	79.68856	68.57515	218.87834	6.12405	0.2390022	0.27665367	2.3326259	21	11 30.9	20.2
129865 1999 RA_{170}	16.2	X	0.88336	307.72027	339.23868	5.47636	0.2393256	0.26610650	2.3938617	21	7 17.5	17.5
129866 1999 RQ_{171}	15.6	X	37.86456	174.63667	160.67995	12.96748	0.2104408	0.22972400	2.6403721	21	12 6.8	19.3
129867 1999 RU_{173}	16.2	X	98.73239	273.91612	84.35949	3.58563	0.2419631	0.23883532	2.5727861	21	—	—
129868 1999 RC_{187}	15.7	X	324.45428	15.32311	348.30124	7.41366	0.1707606	0.22249745	2.6972385	21	8 23.3	18.5
129869 1999 RJ_{198}	15.8	X	85.37803	183.68347	192.93350	13.29384	0.2887807	0.23873573	2.5735016	21	—	—
129870 1999 RF_{200}	14.6	X	308.70417	237.44299	310.88839	14.85521	0.1120508	0.24385448	2.5373608	21	—	—
129871 1999 RH_{203}	16.1	X	41.96217	96.97963	229.74007	7.37655	0.1298113	0.27389239	2.3482774	21	11 25.5	18.8
129872 1999 RW_{212}	15.1	X	237.11935	305.75999	341.75531	12.29652	0.1030195	0.24647827	2.5193217	21	1 24.3	19.0
129873 1999 RH_{214}	16.7	X	0.12383	85.76972	278.73000	4.98998	0.1923729	0.27198358	2.3592516	21	11 20.5	18.8
129874 1999 RN_{219}	16.8	X	51.07837	213.19501	123.26707	2.61460	0.2268449	0.27752476	2.3277423	21	—	—
129875 1999 RZ_{248}	16.1	X	114.62274	305.71079	45.28441	1.35417	0.1835621	0.24024659	2.5627008	21	—	—
129876 Stevenpeterson	16.8	X	348.18798	117.07649	209.21323	4.14629	0.2371048	0.26903081	2.3764829	21	8 18.2	18.1
129877 1999 SP_{2}	15.4	X	40.78512	359.53762	345.64044	25.67434	0.2231964	0.27340802	2.3510501	21	—	—
129878 1999 SQ_{2}	15.4	X	27.47549	2.86184	28.45431	14.24682	0.1802916	0.23224174	2.6212546	21	—	—
129879 Tishasaltzman	15.6	X	24.79944	204.44829	200.54267	14.80874	0.0907114	0.23470489	2.6028829	21	—	—
129880 1999 SX_{4}	15.4	X	263.16597	259.48804	145.21046	3.94570	0.1975845	0.21723498	2.7406246	21	7 9.4	19.4
129881 Chucksee	16.6	X	305.43336	156.70893	257.34924	5.17364	0.2104894	0.26919362	2.3755247	21	9 27.1	18.6
129882 Ustica	16.3	X	296.37117	116.53509	283.47188	0.73463	0.1730016	0.26610288	2.3938834	21	8 25.9	18.5
129883 1999 TO_{2}	14.9	X	59.74232	260.24330	93.94997	13.61510	0.2166456	0.23269628	2.6178399	21	—	—
129884 1999 TB_{4}	15.6	X	331.62780	108.80263	339.66689	4.44785	0.0864945	0.18382069	3.0634194	21	12 24.5	19.4
129885 1999 TW_{7}	15.8	X	149.06071	142.18091	168.78673	14.82111	0.3171272	0.24087647	2.5582312	21	—	—
129886 1999 TA_{9}	15.7	X	291.81688	25.37964	31.18459	4.13223	0.2219093	0.22067871	2.7120379	21	9 1.1	18.9
129887 1999 TT_{17}	15.8	X	220.61041	108.29081	25.28253	2.71149	0.0830934	0.22247855	2.6973913	21	9 29.2	19.6
129888 1999 TF_{21}	16.8	X	14.91587	261.28491	206.85229	22.30083	0.0559896	0.37410411	1.9075433	21	—	—
129889 1999 TH_{25}	15.5	X	31.75575	332.40260	16.27748	12.74195	0.1788378	0.22769983	2.6559970	21	12 5.9	19.1
129890 1999 TE_{29}	16.5	X	157.79385	173.76532	202.43578	5.18546	0.1724553	0.24711477	2.5149938	21	2 22.9	20.5
129891 1999 TO_{29}	16.0	X	141.81320	136.37870	200.65256	4.65704	0.2045289	0.24159423	2.5531618	21	—	—
129892 1999 TS_{34}	15.4	X	30.65723	346.70421	31.14427	15.85859	0.1536331	0.23070242	2.6329015	21	—	—
129893 1999 TW_{34}	15.8	X	257.71352	284.26016	206.37598	21.47889	0.1368471	0.36161717	1.9512070	21	12 2.0	17.7
129894 1999 TK_{35}	16.4	X	296.20494	113.39859	198.11673	14.22364	0.2585622	0.25927244	2.4357450	21	4 5.0	19.9
129895 1999 TM_{35}	16.3	X	169.29924	85.39805	190.23470	22.02236	0.0529479	0.37235087	1.9135264	21	—	—
129896 1999 TP_{35}	15.1	X	359.82958	192.57184	189.90440	28.87860	0.1656496	0.22713338	2.6604110	21	12 1.8	18.6
129897 1999 TV_{35}	16.1	X	111.23247	176.77972	192.20328	14.82389	0.1424668	0.24058050	2.5603289	21	—	—
129898 Sanfordselznick	16.4	X	186.81839	89.41404	183.45236	21.34997	0.0585838	0.37243974	1.9132220	21	—	—
129899 1999 TC_{41}	15.6	X	231.98523	293.56012	179.41770	21.72082	0.0498467	0.22413246	2.6841053	21	9 19.8	19.3
129900 1999 TE_{44}	15.7	X	45.61558	226.53820	342.44216	3.83470	0.0110884	0.21073023	2.7967361	21	5 28.1	19.4
129901 1999 TM_{53}	15.3	X	163.44907	259.30724	13.79954	14.92509	0.1775791	0.23603223	2.5931154	21	—	—
129902 1999 TO_{61}	16.0	X	265.05518	125.90449	340.20332	3.42499	0.0808175	0.22670986	2.6637233	21	10 18.5	19.5
129903 1999 TO_{64}	15.9	X	352.03827	348.44462	331.72312	1.57150	0.0907377	0.22146273	2.7056334	21	8 14.3	18.7
129904 1999 TF_{69}	15.8	X	132.29862	276.16420	345.69066	2.36213	0.0992228	0.22911816	2.6450246	21	12 2.9	19.7
129905 1999 TV_{69}	16.7	X	74.44704	127.17575	227.54861	1.57407	0.0167844	0.23247396	2.6195087	21	—	—
129906 1999 TF_{78}	16.2	X	141.28755	341.20556	358.95559	3.14257	0.2114821	0.24424522	2.5346539	21	—	—
129907 1999 TN_{78}	16.3	X	327.59728	218.20600	167.16122	2.19312	0.0924539	0.22388102	2.6861146	21	10 4.7	19.2
129908 1999 TN_{89}	16.2	X	70.22773	293.99872	58.71271	4.27506	0.2819647	0.23449757	2.6044168	21	—	—
129909 1999 TH_{97}	15.2	X	195.99302	16.76027	59.14602	9.99687	0.2980703	0.21081208	2.7960121	21	6 12.8	20.4
129910 1999 TO_{97}	15.4	X	11.01014	321.06830	89.55993	5.48415	0.2089776	0.23093312	2.6311478	21	—	—
129911 1999 TH_{99}	15.5	X	13.90376	168.70089	162.48070	14.64875	0.2620199	0.22511012	2.6763282	21	11 3.3	18.5
129912 1999 TK_{99}	15.3	X	172.99555	269.03627	64.10761	12.72062	0.1767182	0.24445675	2.5331915	21	1 20.2	19.4
129913 1999 TW_{99}	15.7	X	49.90403	195.73539	149.57982	7.25616	0.1549155	0.27509984	2.3414012	21	—	—
129914 1999 TR_{101}	15.8	X	12.79970	243.63817	77.03619	9.48820	0.2128296	0.26824131	2.3811437	21	10 18.2	18.0
129915 1999 TA_{107}	15.3	X	343.38826	40.92920	263.23109	11.37757	0.2271676	0.26575948	2.3959451	21	6 24.4	17.0
129916 1999 TJ_{108}	15.5	X	127.00735	27.74453	271.97492	4.68291	0.1779664	0.23704351	2.5857350	21	—	—
129917 1999 TH_{114}	16.0	X	33.83164	105.84948	191.71649	5.43985	0.1444951	0.26897763	2.3767962	21	10 4.8	18.4
129918 1999 TP_{115}	16.4	X	1.69041	115.19597	244.52041	3.48975	0.1662427	0.27106951	2.3645523	21	11 12.7	18.3
129919 1999 TJ_{116}	16.6	X	155.46929	125.82287	194.18108	4.15797	0.2128757	0.24182730	2.5515211	21	—	—
129920 1999 TY_{119}	14.9	X	358.59516	171.57071	0.13383	16.83159	0.1275759	0.24508951	2.5288296	21	1 24.8	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
129921 1999 TF_{123}	16.0	X	29.78849	296.80838	80.32140	2.63949	0.1511311	0.23031622	2.6358440	21	—	—
129922 1999 TD_{124}	15.7	X	287.65027	217.88487	168.61239	6.61110	0.1455066	0.21806452	2.7336697	21	7 23.9	19.4
129923 1999 TJ_{126}	15.9	X	77.09606	158.60459	190.19261	14.53528	0.1337311	0.23399467	2.6081470	21	—	—
129924 1999 TK_{127}	16.2	X	76.60119	176.10369	185.11797	4.18585	0.2061096	0.23471499	2.6028082	21	—	—
129925 1999 TM_{127}	15.7	X	143.50266	86.11946	198.01869	3.87177	0.0556715	0.23409223	2.6074224	21	—	—
129926 1999 TO_{127}	16.0	X	108.56712	196.00177	191.47784	10.68421	0.1308071	0.24092352	2.5578982	21	1 6.5	19.4
129927 1999 TU_{127}	16.4	X	90.53856	241.28061	148.32819	3.55876	0.2716701	0.23858504	2.5745850	21	1 5.8	19.1
129928 1999 TN_{131}	15.5	X	179.86481	246.70565	211.82601	4.37977	0.1400553	0.21347314	2.7727277	21	6 28.9	19.9
129929 1999 TV_{141}	15.7	X	148.74177	118.76389	196.09692	5.43194	0.1100259	0.23862681	2.5742846	21	—	—
129930 1999 TX_{141}	16.8	X	255.94353	170.22978	177.32204	1.06915	0.2045535	0.25673090	2.4517939	21	4 16.8	20.4
129931 1999 TV_{144}	16.3	X	106.79339	101.81749	270.01856	2.64771	0.1970167	0.24008406	2.5638572	21	—	—
129932 1999 TB_{148}	16.3	X	43.11503	43.66504	244.12744	3.77751	0.2169016	0.27009136	2.3702578	21	10 16.3	19.0
129933 1999 TE_{149}	15.9	X	76.67789	170.96855	258.65601	2.44932	0.2139077	0.19570321	2.9381282	21	2 7.0	19.3
129934 1999 TA_{151}	15.7	X	245.56510	20.04143	50.89725	3.99397	0.1745764	0.21657108	2.7462226	21	7 28.3	19.8
129935 1999 TJ_{153}	15.3	X	320.22530	350.87699	14.20381	9.66759	0.1056817	0.22010001	2.7167896	21	8 26.8	18.5
129936 1999 TY_{153}	15.8	X	28.21587	184.18906	194.84509	11.20045	0.1746740	0.22993955	2.6387218	21	—	—
129937 1999 TH_{156}	15.7	X	122.46919	208.49156	167.74063	5.84848	0.1636664	0.24026169	2.5625933	21	1 16.2	19.1
129938 1999 TA_{163}	16.3	X	180.31233	179.97029	171.33166	3.53130	0.1267150	0.24655770	2.5187806	21	2 11.9	20.2
129939 1999 TH_{163}	15.9	X	173.03835	253.69957	64.44522	5.78448	0.1300761	0.24180229	2.5516970	21	—	—
129940 1999 TS_{166}	16.2	X	349.69733	57.36494	268.75110	5.66280	0.1544351	0.26545553	2.3977738	21	8 19.9	18.3
129941 1999 TB_{170}	15.5	X	152.50695	178.91628	209.73225	1.24555	0.0956332	0.20141114	2.8823523	21	3 4.9	19.8
129942 1999 TX_{171}	16.2	X	336.81796	8.14470	30.80783	5.76929	0.0615632	0.22492257	2.6778157	21	11 6.4	19.4
129943 1999 TK_{174}	16.1	X	141.49435	184.07159	165.35229	4.78117	0.2363453	0.24093584	2.5578110	21	1 13.7	20.0
129944 1999 TC_{182}	15.6	X	229.34940	358.65937	216.81119	7.08683	0.1396327	0.23706153	2.5856039	21	—	—
129945 1999 TS_{184}	14.9	X	267.97604	44.24898	351.30794	25.30214	0.1389985	0.21650175	2.7468089	21	7 21.4	19.2
129946 1999 TQ_{191}	15.4	X	287.34344	10.29016	3.04248	12.25533	0.1984810	0.21631854	2.7483596	21	6 29.2	19.3
129947 1999 TB_{195}	16.3	X	16.39080	25.94659	315.27625	1.38793	0.2690442	0.22497958	2.6773634	21	11 18.4	19.1
129948 1999 TL_{212}	15.5	X	140.12649	264.53761	12.16221	11.54261	0.1713690	0.23328534	2.6134313	21	12 30.4	20.0
129949 1999 TG_{213}	15.8	X	64.51337	270.74185	7.42399	21.22791	0.2333906	0.27162369	2.3613351	21	10 26.3	19.3
129950 1999 TH_{214}	17.2	X	1.68979	94.22184	22.25745	20.30456	0.1140867	0.37349829	1.9096054	21	—	—
129951 1999 TV_{219}	14.6	X	249.97327	218.05240	2.11601	9.81299	0.1583535	0.23859106	2.5745418	21	—	—
129952 1999 TW_{220}	15.6	X	351.28192	89.42802	267.99187	5.57506	0.1344848	0.26838892	2.3802706	21	10 12.4	18.0
129953 1999 TE_{225}	15.3	X	283.83345	124.65350	350.62453	8.08560	0.1354149	0.23019372	2.6367790	21	11 18.7	18.5
129954 Corksauve	16.2	X	120.68957	278.70499	98.36925	4.82013	0.1229025	0.24146572	2.5540676	21	1 9.7	19.4
129955 Eriksyrstad	15.5	X	359.24351	173.94737	204.11807	14.13047	0.2255773	0.22448402	2.6813021	21	12 1.9	18.3
129956 1999 TT_{255}	16.3	X	116.42462	245.98452	185.73344	1.77659	0.0530227	0.20441623	2.8540340	21	3 10.9	20.2
129957 1999 TQ_{262}	16.0	X	30.36048	169.94647	190.95522	5.02029	0.0917682	0.23024717	2.6363710	21	12 10.3	19.4
129958 1999 TV_{265}	15.1	X	116.21039	48.07167	261.29058	13.30193	0.1340047	0.23584230	2.5945074	21	—	—
129959 1999 TW_{272}	15.5	X	126.83341	297.91857	14.37662	14.01473	0.1546778	0.23535127	2.5981149	21	—	—
129960 1999 TP_{276}	16.0	X	168.42936	243.51295	4.52402	7.28275	0.1646053	0.23341377	2.6124725	21	12 20.2	20.4
129961 1999 TP_{288}	16.4	X	129.84529	203.05846	156.76108	2.19084	0.2204167	0.24058414	2.5603032	21	1 12.7	20.0
129962 Williamverts	16.2	X	299.85959	94.67493	240.43556	5.68784	0.1608849	0.26266196	2.4147449	21	5 28.2	18.8
129963 Marvinwalthall	16.3	X	0.27955	231.91056	86.81879	2.86526	0.1382730	0.26640217	2.3920901	21	9 4.6	18.3
129964 1999 TY_{314}	16.1	X	140.73624	127.98664	208.27610	8.09112	0.1746887	0.23814447	2.5777594	21	—	—
129965 1999 UZ_{4}	16.3	X	189.06861	279.14530	43.91431	15.29781	0.1457226	0.24294607	2.5436819	21	1 23.0	20.6
129966 Michaelward	16.1	X	10.54994	314.67162	2.41646	3.92503	0.2403804	0.26723410	2.3871230	21	10 6.1	17.8
129967 1999 UL_{10}	16.2	X	327.99068	67.76858	14.10225	20.74749	0.1117266	0.36236079	1.9485367	21	—	—
129968 Mitchwhiteley	15.5	X	200.93171	18.43318	42.75461	8.78188	0.1998808	0.20977179	2.8052484	21	5 31.1	20.3
129969 Bradwilliams	15.8	X	151.32331	335.55918	26.90693	5.28131	0.2763665	0.24376203	2.5380023	21	2 13.6	20.0
129970 1999 UH_{19}	16.1	X	88.59209	332.01066	74.76715	0.71495	0.0338227	0.24002325	2.5642902	21	—	—
129971 1999 UM_{22}	16.8	X	212.63409	93.19552	212.95859	13.22176	0.1777652	0.24544446	2.5263910	21	1 17.4	21.2
129972 1999 UF_{23}	15.7	X	49.91666	334.15562	38.54509	13.20600	0.1773672	0.23155157	2.6264606	21	—	—
129973 Michaeldaly	15.5	X	325.89305	202.87747	214.25501	12.59061	0.1810893	0.22559395	2.6725002	21	11 13.8	17.9
129974 1999 US_{33}	16.1	X	25.79966	195.57726	35.57727	4.25870	0.0378132	0.21029742	2.8005721	21	6 1.5	19.7
129975 1999 UA_{36}	15.7	X	219.40572	204.60590	4.69147	8.26817	0.1421141	0.23626147	2.5914377	21	12 26.7	19.5
129976 1999 UJ_{36}	17.0	X	350.93631	67.50624	219.12690	3.21842	0.2989686	0.26532519	2.3985589	21	6 5.6	17.8
129977 1999 UK_{36}	16.6	X	258.65810	38.47022	212.91969	4.02038	0.1433454	0.24750679	2.5123375	21	—	—
129978 1999 UC_{39}	15.6	X	9.39247	92.56798	290.46394	12.40868	0.2065771	0.27349478	2.3505529	21	—	—
129979 1999 UF_{40}	15.9	X	170.86822	319.62129	311.03556	3.22345	0.1121074	0.23551876	2.5968830	21	—	—
129980 Catherinejohnson	15.9	X	44.16404	85.59664	256.47457	5.41070	0.2587018	0.27473895	2.3434511	21	—	—
129981 1999 UZ_{44}	16.3	X	194.74907	161.07482	180.99249	2.77788	0.1643765	0.24565327	2.5249591	21	2 16.2	20.2
129982 Jeffseabrook	15.5	X	126.46032	146.16210	245.26770	14.38171	0.1337841	0.24390960	2.5369785	21	1 30.7	19.2
129983 1999 UR_{48}	16.0	X	350.99526	232.48236	70.20791	8.88804	0.2543278	0.26159484	2.4213074	21	7 14.5	17.4
129984 1999 UC_{51}	15.6	X	76.81028	293.06581	111.14010	14.37652	0.1864428	0.23781190	2.5801621	21	—	—
129985 Jimfreemantle	15.3	X	348.27589	336.21404	85.43975	10.07905	0.0928969	0.22764620	2.6564141	21	12 27.2	18.4
129986 1999 UP_{53}	16.5	X	109.28648	262.18176	37.13441	3.18433	0.0795457	0.22934265	2.6432982	21	12 24.4	20.3
129987 1999 UL_{62}	16.6	X	351.59267	96.52820	66.78751	21.83503	0.0692843	0.37649974	1.8994430	21	—	—
129988 Camerondickinson	15.4	X	349.13991	12.49315	38.83388	15.17614	0.1349265	0.22849780	2.6498098	21	12 16.9	18.5
129989 1999 VS_{5}	16.7	X	66.05377	160.11267	149.45740	1.14138	0.3740120	0.27399023	2.3477184	21	12 26.7	20.7
129990 1999 VW_{13}	16.9	X	245.46705	261.73599	11.12015	20.06867	0.0326148	0.37942548	1.8896660	21	—	—
129991 1999 VL_{14}	16.4	X	111.58993	318.01645	61.46791	23.32683	0.0832463	0.37226651	1.9138155	21	—	—
129992 1999 VQ_{16}	15.9	X	114.46512	300.45999	355.13879	3.71864	0.0780605	0.23087915	2.6315577	21	12 25.7	19.7
129993 1999 VN_{18}	15.8	X	358.51873	42.45954	271.48171	1.57511	0.1238545	0.26410515	2.4059401	21	8 20.5	18.0
129994 1999 VQ_{18}	16.2	X	237.47927	249.92056	27.70265	12.38634	0.1230823	0.24420537	2.5349296	21	1 11.4	20.3
129995 1999 VA_{20}	15.2	X	155.93959	211.82101	55.68434	14.33445	0.1506269	0.23112700	2.6296761	21	—	—
129996 1999 VF_{25}	15.2	X	141.58858	113.57405	249.41150	10.63582	0.1552507	0.23887419	2.5725070	21	1 19.2	19.0
129997 1999 VH_{28}	15.7	X	148.82888	136.67506	233.49316	2.89186	0.1420532	0.24248905	2.5468769	21	2 4.5	19.5
129998 1999 VA_{31}	15.0	X	126.18945	103.23650	239.31961	10.83427	0.1524415	0.23579976	2.5948194	21	—	—
129999 1999 VM_{33}	16.7	X	249.33728	177.08273	227.53098	1.41880	0.2064298	0.25834237	2.4415875	21	6 23.2	20.4
130000 1999 VX_{33}	15.2	X	135.45067	104.62141	49.27671	10.08053	0.1283822	0.20994812	2.8036775	21	7 27.7	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130001 1999 VC_{34}	15.7	X	103.16664	293.37272	58.14971	10.72968	0.1489762	0.23415034	2.6069909	21	—	—
130002 1999 VR_{35}	15.4	X	264.97400	341.46119	63.56374	7.27283	0.2520437	0.21452015	2.7636985	21	7 5.4	19.5
130003 1999 VB_{39}	16.3	X	156.91620	283.81993	54.44782	4.23847	0.3241755	0.24157819	2.5532748	21	1 23.6	20.7
130004 1999 VN_{42}	16.6	X	100.96840	118.57941	256.30328	3.05307	0.0697864	0.23796025	2.5790897	21	—	—
130005 1999 VE_{43}	16.1	X	195.13931	190.36825	86.23051	4.26384	0.1509202	0.23624666	2.5915460	21	—	—
130006 Imranaslam	16.0	X	297.29452	73.66727	256.50065	6.40714	0.2400015	0.26014515	2.4302945	21	5 3.1	19.2
130007 Frankteti	15.7	X	206.31829	60.04082	5.55183	7.84358	0.1560263	0.21140286	2.7908006	21	6 11.9	20.3
130008 1999 VU_{46}	16.5	X	29.13711	17.69445	47.75722	22.87637	0.1112105	0.36909256	1.9247715	21	—	—
130009 1999 VH_{52}	16.1	X	132.99507	313.77831	38.32991	12.55703	0.2308105	0.23938992	2.5688110	21	1 10.1	20.0
130010 1999 VR_{52}	16.5	X	294.83211	217.75449	238.46510	19.19491	0.0909895	0.35935042	1.9594038	21	12 21.7	18.1
130011 1999 VP_{53}	16.2	X	20.52713	11.78509	36.43023	4.19925	0.1802841	0.23115547	2.6294602	21	—	—
130012 1999 VR_{53}	16.0	X	98.25810	352.48696	29.69858	1.19983	0.1213051	0.23844804	2.5755711	21	—	—
130013 1999 VB_{56}	15.8	X	105.50947	159.86350	216.61644	9.04594	0.1366207	0.23858789	2.5745646	21	—	—
130014 1999 VZ_{56}	16.2	X	173.94878	159.87908	165.41792	1.42709	0.1643758	0.24212702	2.5494150	21	1 8.9	20.0
130015 1999 VF_{57}	16.2	X	9.26438	157.76586	220.60798	1.25802	0.0964071	0.22680257	2.6629974	21	12 2.4	19.2
130016 1999 VU_{59}	15.7	X	94.89147	104.12758	222.13705	4.70286	0.1874231	0.23263729	2.6182824	21	—	—
130017 1999 VB_{66}	16.5	X	5.64473	272.83677	104.32501	1.88963	0.1391532	0.22546457	2.6735225	21	11 30.3	19.5
130018 1999 VK_{67}	16.0	X	339.04828	336.52878	58.72572	3.85313	0.1144164	0.22349599	2.6891987	21	11 6.9	18.9
130019 1999 VW_{68}	16.1	X	201.45200	98.96534	232.10551	4.51420	0.1492445	0.24515647	2.5283691	21	2 7.4	20.1
130020 1999 VC_{69}	16.3	X	33.42641	354.56636	39.38436	4.35339	0.1039246	0.23098765	2.6307336	21	—	—
130021 1999 VY_{74}	15.7	X	331.64251	277.93732	198.24012	13.96902	0.1407608	0.23382934	2.6093763	21	—	—
130022 1999 VD_{77}	15.9	X	144.12493	261.81588	161.66851	2.24147	0.0624206	0.20129675	2.8834442	21	4 5.2	20.1
130023 1999 VV_{77}	15.2	X	134.55458	50.17609	26.68012	9.18651	0.1531901	0.20182392	2.8784208	21	4 19.8	19.5
130024 1999 VK_{80}	15.4	X	286.70913	197.99482	206.25821	9.44759	0.1133630	0.21784820	2.7354791	21	8 18.9	19.1
130025 1999 VU_{80}	15.5	X	124.89923	287.83017	31.95996	9.96101	0.1108821	0.23408082	2.6075071	21	—	—
130026 1999 VG_{84}	16.4	X	258.04482	284.15732	16.74246	3.25292	0.1988085	0.25368020	2.4714111	21	2 21.3	20.3
130027 1999 VC_{88}	15.3	X	291.64461	10.03660	59.00193	15.00540	0.0740472	0.21950908	2.7216632	21	10 15.1	18.9
130028 1999 VO_{90}	16.4	X	170.61656	115.14766	208.51641	8.60606	0.2188528	0.24302960	2.5430990	21	1 6.9	20.6
130029 1999 VR_{93}	15.4	X	182.51446	69.84858	29.94720	13.34657	0.1711975	0.21202948	2.7852994	21	7 4.2	20.2
130030 1999 VH_{95}	16.0	X	13.24343	222.01533	206.54792	5.90077	0.0713761	0.23338379	2.6126962	21	—	—
130031 1999 VT_{96}	16.2	X	114.92962	284.63500	58.22527	1.57679	0.0657719	0.23575279	2.5951641	21	—	—
130032 1999 VE_{98}	15.4	X	223.14016	197.87149	48.96417	11.99065	0.1650135	0.23693469	2.5865266	21	—	—
130033 1999 VP_{98}	15.7	X	236.55869	17.48542	226.06829	8.57989	0.0621231	0.23738114	2.5832825	21	—	—
130034 1999 VT_{99}	15.5	X	43.92967	243.77980	48.48574	5.57177	0.1425894	0.22053641	2.7132044	21	10 7.7	18.9
130035 1999 VA_{123}	16.0	X	148.54457	115.82917	202.02921	2.66377	0.2039717	0.23734761	2.5835258	21	—	—
130036 1999 VO_{125}	16.6	X	169.68525	260.50280	46.83129	9.34588	0.1682231	0.23891408	2.5722206	21	—	—
130037 1999 VR_{125}	15.9	X	134.40288	264.29122	46.89545	10.69554	0.1111793	0.23411307	2.6072676	21	—	—
130038 1999 VM_{127}	15.9	X	331.78117	266.69108	170.93255	2.83822	0.0512095	0.23012956	2.6372691	21	12 21.6	19.2
130039 1999 VY_{136}	16.7	X	58.11211	149.38979	234.19473	1.20674	0.0603632	0.23182688	2.6243808	21	—	—
130040 1999 VO_{137}	16.9	X	167.61303	286.94482	47.08017	9.98078	0.1985546	0.24189482	2.5510463	21	1 18.5	21.1
130041 1999 VL_{140}	15.6	X	228.18651	332.89126	222.63951	11.13127	0.1332990	0.23027738	2.6361404	21	12 18.9	19.4
130042 1999 VE_{147}	16.2	X	156.41312	85.75807	230.82149	11.50541	0.1881562	0.23731515	2.5837614	21	—	—
130043 1999 VZ_{148}	16.0	X	51.90680	46.82298	192.02570	2.45567	0.0027022	0.21157105	2.7893214	21	7 15.4	19.7
130044 1999 VK_{149}	15.7	X	345.21055	159.16107	213.57830	5.76362	0.0286253	0.22037007	2.7145696	21	10 13.5	19.0
130045 1999 VZ_{157}	15.9	X	184.77485	278.82174	44.77632	6.37343	0.1608305	0.24245171	2.5471384	21	1 18.3	19.9
130046 1999 VF_{159}	15.7	X	353.04254	7.91587	32.85630	15.69401	0.1298871	0.22685443	2.6625915	21	12 7.0	18.9
130047 1999 VJ_{163}	15.9	X	84.81052	319.01413	27.16996	3.48242	0.2316363	0.23375673	2.6099166	21	—	—
130048 1999 VG_{164}	15.7	X	123.48738	106.17958	236.25823	13.39832	0.1344889	0.23651478	2.5895871	21	—	—
130049 1999 VU_{166}	15.7	X	156.20871	295.44043	35.08359	6.53288	0.2106968	0.23963076	2.5670895	21	1 3.9	19.7
130050 1999 VL_{167}	15.4	X	119.55953	278.31207	53.28149	13.09530	0.2318275	0.23511007	2.5998915	21	—	—
130051 1999 VK_{168}	15.6	X	312.45229	52.66506	281.40279	4.21059	0.1703712	0.25872179	2.4391998	21	6 14.9	18.3
130052 1999 VO_{171}	16.3	X	260.21474	135.63357	303.17668	1.68832	0.1542546	0.21621977	2.7491965	21	8 25.7	20.0
130053 1999 VW_{171}	16.6	X	197.68173	1.68347	254.06493	18.32328	0.0430936	0.36800904	1.9285477	21	—	—
130054 1999 VM_{173}	15.8	X	10.06944	314.04482	43.53785	6.56302	0.0472486	0.22260283	2.6963872	21	10 31.1	19.2
130055 1999 VY_{173}	15.8	X	297.82492	49.64694	317.59146	5.56803	0.1465367	0.26231879	2.4168505	21	7 14.9	18.6
130056 1999 VA_{177}	15.6	X	179.73211	141.00151	195.49354	12.79181	0.1781834	0.24436164	2.5338488	21	1 25.6	20.0
130057 1999 VA_{179}	16.2	X	273.63513	248.40908	85.50319	13.71695	0.2583069	0.25657242	2.4528034	21	4 17.8	20.2
130058 1999 VN_{179}	15.1	X	253.78613	211.31412	162.35345	9.52858	0.1566643	0.21102978	2.7940889	21	5 27.3	19.5
130059 1999 VT_{181}	16.3	X	245.62267	190.62757	219.47786	3.85664	0.0315857	0.21314990	2.7755302	21	7 16.9	20.1
130060 1999 VO_{185}	15.1	X	148.66314	36.92355	218.86534	7.89652	0.0948972	0.22730032	2.6591083	21	12 12.3	19.1
130061 1999 VR_{187}	16.2	X	34.13520	248.02824	114.65076	3.17002	0.2211852	0.22802949	2.6534365	21	—	—
130062 1999 VU_{188}	15.1	X	186.67404	275.75348	213.08783	8.41549	0.1126066	0.21285721	2.7780740	21	8 10.8	19.6
130063 1999 VZ_{191}	16.3	X	82.38203	300.31697	43.29481	4.18438	0.1817439	0.23134244	2.6280432	21	—	—
130064 1999 VB_{192}	15.8	X	130.54244	298.55987	27.31367	4.57651	0.2097256	0.23651268	2.5896025	21	—	—
130065 1999 VC_{192}	15.3	X	293.13643	184.87240	47.53272	15.45641	0.0591159	0.24212661	2.5494180	21	1 22.6	19.1
130066 Timhaltigin	15.4	X	324.25518	354.98827	60.44064	12.03592	0.0702093	0.22381530	2.6866404	21	11 11.0	18.7
130067 Marius–Phaneuf	15.5	X	139.37964	271.19720	82.63736	14.97587	0.2443813	0.24054334	2.5605927	21	1 19.8	19.4
130068 1999 VH_{196}	15.0	X	340.68733	234.67667	197.79042	26.06562	0.1392112	0.22711645	2.6605433	21	12 29.7	18.6
130069 Danielgaudreau	15.2	X	36.39849	149.25369	190.80229	15.12968	0.2430888	0.22608891	2.6685983	21	12 13.4	19.0
130070 1999 VK_{197}	15.6	X	149.88770	323.27964	40.18822	15.70746	0.1379136	0.24420290	2.5349468	21	2 3.8	19.6
130071 Claudebrunet	16.0	X	121.71296	158.82856	186.60568	12.79053	0.2624339	0.23859296	2.5745281	21	—	—
130072 Ilincaignat	15.5	X	106.63088	349.09908	114.68776	9.98288	0.1754981	0.20172435	2.8793680	21	4 30.5	19.8
130073 1999 VH_{204}	16.2	X	334.95062	53.75146	306.20343	3.77374	0.2097506	0.26633473	2.3924940	21	9 10.6	17.9
130074 1999 VG_{205}	15.6	X	137.10805	38.13022	213.97212	3.47711	0.1778349	0.22550579	2.6731967	21	11 27.6	20.0
130075 1999 VO_{217}	15.7	X	332.13542	61.81852	205.97153	5.90434	0.1105975	0.25414911	2.4683704	21	4 21.0	18.4
130076 1999 VA_{224}	15.7	X	266.32897	223.14050	148.47864	4.87941	0.0882124	0.21196993	2.7858211	21	6 15.4	19.5
130077 1999 VA_{225}	15.7	X	116.94537	258.20970	107.10887	5.54724	0.2574006	0.23924873	2.5698215	21	1 10.2	19.0
130078 Taschner	16.3	X	164.81883	316.28907	42.04048	9.36347	0.1927424	0.24592131	2.5231241	21	2 15.5	20.4
130079 1999 WW_{2}	15.5	X	299.36476	282.54283	79.79070	3.68573	0.1964162	0.26019536	2.4299818	21	6 30.6	18.2
130080 1999 WQ_{6}	15.3	X	95.49324	306.78075	80.37428	10.37773	0.1352615	0.23636281	2.5906970	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130081 1999 WM_{12}	16.3	X	255.40650	90.91931	216.67813	2.03000	0.2256789	0.25300894	2.4757805	21	2 23.6	20.5
130082 1999 WP_{13}	14.4	X	348.06489	102.45622	238.91890	12.54484	0.2215074	0.21823954	2.7322080	21	8 31.0	17.2
130083 1999 WV_{14}	15.3	X	69.03957	41.92436	235.23873	5.53807	0.0043631	0.21901078	2.7257900	21	9 26.4	19.0
130084 1999 WM_{16}	16.4	X	338.19194	181.78297	220.92842	5.38488	0.0779548	0.22431916	2.6826157	21	11 14.7	19.4
130085 1999 WX_{16}	15.6	X	46.78167	264.68178	27.98125	8.32834	0.0538995	0.22242158	2.6978518	21	9 29.3	19.1
130086 1999 WW_{17}	16.6	X	136.95117	144.35477	203.90134	0.65061	0.1498625	0.23921374	2.5700721	21	—	—
130087 1999 WA_{25}	15.6	X	147.67023	230.13303	73.46727	14.10513	0.1740370	0.23420663	2.6065732	21	—	—
130088 Grantcunningham	15.8	X	91.26740	144.57529	226.50121	13.05658	0.1815286	0.23523058	2.5990035	21	—	—
130089 Saadatanwar	15.5	X	287.20146	357.97987	77.02285	11.73763	0.2434587	0.21961960	2.7207501	21	9 20.9	19.0
130090 Heatherbowles	15.9	X	173.75423	105.02691	245.53524	13.69253	0.1549703	0.24265530	2.5457135	21	2 2.4	20.2
130091 1999 XC_{10}	16.5	X	226.62522	204.20500	96.92050	24.66523	0.0923491	0.37461614	1.9058047	21	1 2.9	18.7
130092 1999 XD_{13}	15.6	X	17.01098	171.53994	187.17925	8.07692	0.2432371	0.22599195	2.6693616	21	12 10.4	18.7
130093 1999 XP_{14}	15.4	X	310.41448	317.51921	23.67695	11.24227	0.2949531	0.26452895	2.4033696	21	5 26.9	18.1
130094 1999 XW_{14}	16.7	X	254.76823	79.74574	90.31836	23.96594	0.0729511	0.36289935	1.9466084	21	—	—
130095 1999 XR_{16}	14.9	X	133.12674	284.49889	78.72397	28.31088	0.2082103	0.23902327	2.5714372	21	1 20.2	19.0
130096 1999 XJ_{19}	16.2	X	142.57844	298.14032	71.84794	3.08222	0.2657950	0.24413504	2.5354165	21	2 13.2	20.2
130097 1999 XW_{20}	15.4	X	230.60490	30.58827	31.03629	14.26886	0.2269792	0.21417563	2.7666614	21	6 25.2	20.2
130098 1999 XM_{21}	15.5	X	195.89982	268.90332	189.06254	7.27051	0.1951933	0.21082665	2.7958833	21	7 11.3	20.3
130099 1999 XU_{22}	15.4	X	209.50016	12.03332	61.03338	10.95103	0.2758772	0.21104650	2.7939413	21	6 19.6	20.4
130100 1999 XY_{28}	15.3	X	124.56015	338.36501	228.56707	10.88784	0.1061992	0.21518738	2.7579826	21	9 13.3	19.6
130101 1999 XM_{29}	14.8	X	127.24932	284.30968	233.75151	16.06183	0.0850306	0.20894390	2.8126537	21	7 13.4	19.2
130102 1999 XO_{30}	14.8	X	120.13750	247.03859	101.61274	14.55253	0.1871217	0.23524827	2.5988732	21	—	—
130103 1999 XR_{30}	15.4	X	139.67937	226.49034	119.53373	8.34301	0.2280051	0.23736683	2.5833864	21	1 7.9	19.1
130104 1999 XB_{41}	15.1	X	203.47352	232.56419	243.75590	8.12354	0.1100521	0.21439495	2.7647743	21	8 12.1	19.5
130105 1999 XW_{42}	16.4	X	265.98599	155.53706	247.47790	1.24405	0.2097084	0.26064884	2.4271625	21	7 9.2	19.6
130106 1999 XT_{47}	15.1	X	295.46091	240.52779	244.82355	13.65098	0.0322752	0.22772557	2.6557968	21	12 30.4	18.7
130107 1999 XS_{51}	16.4	X	120.32244	287.56748	65.87975	3.66561	0.2666376	0.23754102	2.5821233	21	1 1.1	19.8
130108 1999 XQ_{58}	15.3	X	164.97722	268.42027	78.37375	10.37564	0.1206732	0.24038157	2.5617413	21	1 24.6	19.2
130109 1999 XC_{65}	15.6	X	10.58485	294.61885	80.89530	8.10895	0.0929175	0.22373156	2.6873107	21	11 29.9	18.9
130110 1999 XQ_{65}	16.2	X	76.84380	223.42270	188.90655	1.15484	0.2594102	0.19133897	2.9826372	21	1 24.6	19.6
130111 1999 XR_{67}	15.2	X	247.58303	20.66939	135.05326	2.95293	0.1375878	0.17793065	3.1306573	21	11 14.5	19.6
130112 1999 XF_{70}	15.5	X	351.51168	319.96096	82.20436	10.25462	0.0595291	0.22353237	2.6889069	21	12 3.4	18.7
130113 1999 XY_{72}	15.5	X	179.18708	128.28638	250.53654	7.31803	0.0541534	0.24425103	2.5346137	21	3 9.9	19.2
130114 1999 XS_{73}	15.8	X	307.48526	186.07466	234.51424	0.97094	0.1839216	0.21997609	2.7178098	21	10 8.7	18.6
130115 1999 XO_{78}	15.6	X	168.14687	161.41252	243.63334	1.09555	0.0497597	0.20097571	2.8865140	21	4 7.7	19.7
130116 1999 XH_{79}	15.9	X	61.43274	279.93899	71.04575	3.67589	0.1289293	0.22750999	2.6574743	21	—	—
130117 1999 XD_{80}	15.3	X	18.23584	102.42385	246.52248	4.06672	0.0778856	0.22084514	2.7106752	21	11 2.5	18.5
130118 1999 XR_{80}	15.9	X	348.59890	151.55369	196.50651	3.28104	0.1111073	0.21726827	2.7403446	21	9 16.1	18.9
130119 1999 XH_{81}	15.3	X	271.74473	16.03446	82.33513	15.58457	0.0673026	0.21933816	2.7230770	21	10 27.2	19.1
130120 1999 XH_{84}	14.9	X	83.66084	279.08702	93.20517	13.45352	0.2042490	0.23130442	2.6283312	21	—	—
130121 1999 XH_{86}	14.8	X	18.85845	94.98675	285.09332	9.41863	0.1668737	0.22314842	2.6919904	21	12 28.2	18.0
130122 1999 XZ_{90}	15.5	X	312.74105	93.60371	267.52673	3.99318	0.2222070	0.25888455	2.4381774	21	7 18.0	17.7
130123 1999 XJ_{92}	15.3	X	348.12076	236.18719	232.37050	2.56898	0.1845984	0.18353727	3.0665722	21	—	—
130124 1999 XJ_{105}	15.9	X	296.60543	158.30266	258.78771	18.74874	0.1410427	0.35540101	1.9738930	21	10 3.1	17.8
130125 1999 XV_{105}	14.7	X	85.18279	137.40598	253.89244	16.93479	0.2061358	0.23338988	2.6126508	21	—	—
130126 Stillmanchase	15.5	X	300.85847	8.50541	30.92596	10.94797	0.2539841	0.21969182	2.7201538	21	8 21.4	18.7
130127 Zoltanfarkas	15.5	X	214.77264	21.40387	91.85523	5.31252	0.0527089	0.21590453	2.7518719	21	8 31.5	19.4
130128 Tarafisher	15.1	X	31.97474	139.25603	252.27309	10.57461	0.1088813	0.18397436	3.0617133	21	—	—
130129 1999 XS_{127}	16.4	X	52.29163	291.98213	129.32492	23.71268	0.1157158	0.37050810	1.9198660	21	—	—
130130 1999 XB_{133}	14.7	X	50.16545	42.68428	317.48519	12.38224	0.1797511	0.22609010	2.6685890	21	—	—
130131 1999 XC_{133}	15.0	X	117.86713	314.47971	44.47209	12.22406	0.1998306	0.23445442	2.6047363	21	—	—
130132 1999 XQ_{133}	14.7	X	134.31190	272.03502	54.02075	15.20995	0.2283348	0.23181224	2.6244913	21	—	—
130133 1999 XP_{134}	16.4	X	355.05951	78.97282	71.21716	22.31050	0.0936279	0.37534082	1.9033508	21	—	—
130134 1999 XR_{135}	16.3	X	26.62080	127.07229	255.33232	18.13289	0.1058648	0.36230640	1.9487317	21	—	—
130135 1999 XF_{136}	16.3	X	74.09396	56.07080	60.53925	22.22094	0.0920489	0.37622741	1.9003595	21	2 23.9	18.4
130136 1999 XP_{137}	15.4	X	47.18025	160.63250	219.99408	13.22089	0.1260430	0.22998166	2.6383997	21	—	—
130137 1999 XT_{137}	15.9	X	114.84471	324.10163	45.72046	8.59471	0.2033394	0.23851534	2.5750866	21	1 6.1	19.3
130138 1999 XT_{145}	15.5	X	346.09011	244.39014	65.93590	4.88379	0.0886827	0.21368867	2.7708630	21	7 21.4	18.8
130139 1999 XF_{148}	15.9	X	105.94553	24.88664	83.32328	1.93712	0.1152496	0.20105053	2.8857978	21	4 23.4	19.9
130140 1999 XC_{150}	15.6	X	180.98659	36.60134	240.64812	6.86339	0.1788891	0.23430969	2.6058088	21	—	—
130141 1999 XZ_{153}	15.7	X	92.64093	131.56106	235.23830	13.72228	0.1895300	0.23342351	2.6123999	21	—	—
130142 1999 XP_{157}	15.6	X	251.67323	204.05354	186.45832	3.50826	0.1934920	0.21016770	2.8017244	21	6 9.9	19.9
130143 1999 XC_{177}	14.8	X	174.50460	21.89010	11.24453	8.32960	0.2316053	0.24407078	2.5358615	21	4 4.7	19.2
130144 1999 XQ_{182}	14.4	X	141.68745	45.52276	297.81474	12.65921	0.2016611	0.23806668	2.5783209	21	1 4.4	18.2
130145 1999 XD_{186}	15.0	X	187.42995	293.13310	17.37529	7.33452	0.2011960	0.23892324	2.5721549	21	1 7.6	19.3
130146 1999 XS_{191}	14.8	X	331.72181	211.02078	331.59130	8.42712	0.0319902	0.19100734	2.9860885	21	1 20.9	18.9
130147 1999 XF_{199}	15.4	X	241.82797	42.46296	46.98145	14.77754	0.1531009	0.21390624	2.7689838	21	8 26.1	19.8
130148 1999 XT_{202}	14.5	X	210.22869	262.61082	292.12336	29.21346	0.1800425	0.21955197	2.7213088	21	11 19.9	19.3
130149 1999 XZ_{204}	15.2	X	294.86482	356.82937	62.41661	14.07637	0.1559615	0.21601985	2.7508924	21	9 26.8	18.7
130150 1999 XJ_{206}	15.0	X	330.65520	335.54759	69.86198	15.36067	0.1519117	0.21856198	2.7295201	21	11 8.5	17.9
130151 1999 XB_{209}	15.0	X	61.72584	68.24823	306.32346	12.79200	0.1487242	0.22990658	2.6389741	21	—	—
130152 1999 XV_{213}	15.2	X	354.86035	267.90848	95.65818	15.63555	0.2113397	0.22104472	2.7090433	21	11 5.4	18.1
130153 1999 XA_{217}	16.4	X	217.53523	245.33517	101.68604	3.74791	0.1994554	0.24395528	2.5366618	21	3 16.4	20.7
130154 1999 XQ_{220}	15.4	X	256.08284	306.60887	109.28152	10.20898	0.2471367	0.26093897	2.4253630	21	7 10.7	19.0
130155 1999 XD_{223}	14.1	X	24.19967	334.00543	104.42301	23.49737	0.1203032	0.18204616	3.0832947	21	—	—
130156 1999 XS_{225}	15.4	X	282.22480	240.89798	93.16337	3.46760	0.0644526	0.20248397	2.8721621	21	5 21.5	19.3
130157 1999 XL_{228}	15.6	X	136.44000	288.11044	88.88046	5.68476	0.3028742	0.23895418	2.5719328	21	2 21.4	19.7
130158 Orsonjohn	14.7	X	347.51548	22.82454	75.03743	18.38185	0.2587347	0.18035613	3.1025262	21	—	—
130159 1999 XH_{233}	15.7	X	295.56909	202.38938	183.19155	9.06107	0.2508673	0.21677368	2.7445112	21	7 16.6	19.2
130160 1999 XP_{235}	15.7	X	310.03744	289.82971	254.92170	8.11704	0.2041565	0.18742287	3.0240409	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130161 Iankubik	15.5	X	230.49275	44.13783	335.99828	1.29926	0.1254274	0.20659294	2.8339514	21	5 11.8	19.9
130162 1999 YM	16.8	X	40.97329	333.89419	115.07725	25.54361	0.0759115	0.37140061	1.9167890	21	—	—
130163 1999 YX_5	16.2	X	43.19187	73.45964	336.90732	18.48523	0.1166575	0.36937849	1.9237781	21	—	—
130164 1999 YW_9	16.0	X	354.07779	195.84919	123.81510	2.89794	0.1874045	0.21700491	2.7425613	21	8 18.7	18.4
130165 1999 YV_{11}	15.7	X	65.48931	112.32563	246.00334	1.73787	0.1205328	0.22843451	2.6502992	21	—	—
130166 1999 YL_{17}	16.2	X	347.48223	236.35267	200.91931	0.63742	0.1556382	0.17802446	3.1295575	21	—	—
130167 1999 YV_{27}	14.8	X	14.21430	21.64334	46.80640	16.63942	0.0867697	0.18065387	3.0991163	21	—	—
130168 1999 YX_{27}	14.5	X	174.76877	25.09771	14.69449	15.27299	0.1906940	0.24483534	2.5305795	21	4 10.5	18.6
130169 2000 AG_1	14.9	X	45.71662	63.60290	300.38109	22.08011	0.2605419	0.27666157	2.3325815	21	—	—
130170 2000 AL_4	14.6	X	297.01560	51.02728	126.02562	11.32438	0.0569783	0.18148737	3.0896203	21	—	—
130171 2000 AS_6	14.9	X	319.54373	121.35592	293.33068	10.35480	0.1144102	0.17565465	3.1576425	21	10 15.9	19.0
130172 2000 AU_6	15.7	X	296.94020	358.02067	53.69653	10.23358	0.1461086	0.21793217	2.7347764	21	9 18.7	19.1
130173 2000 AU_{10}	15.0	X	19.32170	296.84114	75.27670	12.91634	0.1800162	0.22360086	2.6883578	21	12 19.9	18.2
130174 2000 AO_{18}	15.3	X	295.46582	324.43552	80.83364	9.85472	0.1882916	0.21601784	2.7509095	21	8 30.4	18.7
130175 2000 AL_{20}	14.9	X	256.26038	138.24039	317.04658	1.08844	0.1676771	0.16968107	3.2313235	21	9 6.1	19.5
130176 2000 AO_{28}	15.0	X	32.18525	36.67674	89.93475	3.94563	0.1020300	0.18963444	3.0004835	21	1 30.6	18.6
130177 2000 AH_{36}	15.9	X	233.95452	85.17699	341.14178	1.37101	0.2329851	0.21035517	2.8000595	21	7 4.2	20.6
130178 2000 AD_{39}	15.4	X	287.00427	320.17933	93.84491	8.35942	0.2562676	0.21459548	2.7630516	21	8 15.2	18.9
130179 2000 AC_{45}	15.8	X	351.08480	309.91459	88.66543	4.33930	0.1887714	0.22112261	2.7084072	21	12 8.3	18.5
130180 2000 AP_{52}	15.3	X	167.77136	38.34032	304.92222	4.11800	0.1980841	0.24306618	2.5428438	21	1 27.5	19.2
130181 2000 AZ_{52}	15.1	X	186.19836	135.50524	260.39528	13.81705	0.1425379	0.20455394	2.8527529	21	4 14.4	20.0
130182 2000 AZ_{55}	15.6	X	29.06140	121.57311	10.32533	0.70079	0.2842032	0.18837994	3.0137897	21	2 1.2	18.0
130183 2000 AS_{58}	14.6	X	338.97010	178.76164	308.69701	14.83616	0.2319175	0.18180068	3.0860696	21	—	—
130184 2000 AA_{60}	14.5	X	4.13930	170.30408	310.37817	4.81790	0.2638531	0.18439935	3.0570072	21	—	—
130185 2000 AE_{66}	14.7	X	314.21490	152.42141	322.26576	17.64119	0.1721695	0.17676262	3.1444336	21	12 27.4	18.5
130186 2000 AE_{70}	14.7	X	145.12231	205.97285	237.86341	6.85975	0.1412634	0.20216066	2.8752235	21	5 8.0	19.1
130187 2000 AJ_{83}	15.4	X	102.52949	243.98828	124.90782	6.66745	0.2145595	0.23295736	2.6158837	21	—	—
130188 2000 AZ_{85}	14.8	X	66.39910	75.01466	284.91149	11.28079	0.2009668	0.22578674	2.6709787	21	—	—
130189 2000 AY_{86}	15.2	X	323.12009	261.90560	227.59410	2.62722	0.1819212	0.18049415	3.1009443	21	—	—
130190 2000 AG_{90}	12.0	X	33.17183	77.80029	292.10663	14.72211	0.0455933	0.08184893	5.2536447	21	11 18.5	19.0
130191 2000 AS_{92}	16.7	X	297.47777	104.13918	320.32793	17.07370	0.1050080	0.35382499	1.9797501	21	10 20.7	18.8
130192 2000 AB_{93}	16.6	X	133.49316	282.38903	286.61579	16.49446	0.0718487	0.35028763	1.9930561	21	10 1.4	19.6
130193 2000 AM_{95}	14.6	X	283.17141	39.39954	129.77764	9.97736	0.2661103	0.17664553	3.1458230	21	12 28.2	18.4
130194 2000 AZ_{128}	14.7	X	343.62700	154.69059	290.15299	16.85489	0.1826013	0.17878380	3.1206898	21	—	—
130195 2000 AM_{129}	15.6	X	66.20499	179.31813	273.09547	6.66283	0.1603718	0.23473469	2.6026626	21	2 1.0	18.3
130196 2000 AW_{133}	15.4	X	15.40468	36.20059	30.28077	3.11387	0.2870062	0.18377859	3.0638872	21	—	—
130197 2000 AL_{152}	16.3	X	169.35023	110.11012	120.75482	24.29627	0.0569952	0.35919355	1.9599742	21	—	—
130198 2000 AY_{152}	16.3	X	118.55754	216.77940	132.02423	24.20074	0.0814301	0.36753016	1.9302226	21	—	—
130199 2000 AC_{161}	15.2	X	353.51400	72.38381	41.05840	5.21673	0.1475626	0.18243115	3.0789554	21	—	—
130200 2000 AG_{167}	14.6	X	314.10588	285.33936	187.93383	8.79364	0.3073718	0.17913809	3.1165738	21	12 12.8	17.4
130201 2000 AE_{170}	15.4	X	12.60556	166.72938	230.89886	13.70338	0.1081564	0.22612302	2.6683299	21	12 31.8	18.9
130202 2000 AJ_{171}	15.2	X	265.87650	286.69230	128.81450	13.78018	0.1347797	0.21407672	2.7675135	21	8 5.4	18.8
130203 2000 AT_{176}	15.7	X	64.69516	291.99699	173.86553	7.25997	0.1373120	0.23850570	2.5751560	21	2 14.2	18.6
130204 2000 AZ_{176}	15.2	X	246.90594	204.40399	217.41634	9.72625	0.1581733	0.21144997	2.7903861	21	7 16.2	19.5
130205 2000 AY_{181}	15.1	X	12.28351	291.25104	191.48304	7.91758	0.2106517	0.18606582	3.0387268	21	—	—
130206 2000 AK_{201}	16.3	X	334.31435	66.39498	134.21564	26.21861	0.1248547	0.37424751	1.9070559	21	—	—
130207 2000 AV_{205}	14.9	X	129.30776	340.31363	101.80502	10.19750	0.0877545	0.19626047	2.9325639	21	4 19.2	19.3
130208 2000 AB_{211}	15.3	X	353.96694	245.45463	294.73452	0.68703	0.0340291	0.18931812	3.0038248	21	2 13.9	19.4
130209 2000 AZ_{214}	15.7	X	117.44843	260.16457	92.14739	5.07728	0.2713470	0.23593659	2.5938161	21	—	—
130210 2000 AX_{217}	16.1	X	123.87241	66.68160	285.69028	2.58420	0.0172096	0.23073557	2.6326494	21	—	—
130211 2000 AF_{219}	15.1	X	210.91449	28.43231	301.11732	9.93697	0.1030465	0.19263770	2.9692165	21	2 19.8	19.8
130212 2000 AD_{220}	15.2	X	187.55026	275.00260	79.35074	2.86083	0.0596111	0.19264844	2.9691061	21	3 1.3	19.6
130213 2000 AX_{222}	15.9	X	239.10897	341.78003	93.72831	5.63280	0.0474453	0.21154294	2.7895685	21	8 11.6	19.8
130214 2000 AC_{227}	16.4	X	300.24730	296.70027	195.33574	0.69260	0.1280343	0.17553024	3.1591343	21	12 26.5	20.2
130215 2000 AK_{228}	15.5	X	57.90314	74.97795	134.76654	2.81260	0.0048225	0.20127393	2.8836620	21	6 15.5	19.3
130216 2000 AC_{238}	15.1	X	61.76171	91.28881	253.84542	22.17290	0.3242567	0.27582755	2.3372811	21	—	—
130217 2000 AA_{239}	15.9	X	23.83142	26.43476	115.13392	2.41936	0.1550067	0.18908260	3.0063186	21	2 4.2	19.3
130218 2000 AG_{239}	15.3	X	298.60839	17.22842	106.21393	2.85933	0.1381354	0.17730189	3.1380544	21	12 12.8	19.0
130219 2000 AG_{242}	14.6	X	335.98312	232.04845	261.59162	14.83756	0.2218126	0.18094815	3.0957552	21	—	—
130220 2000 AM_{245}	14.5	X	126.77052	56.65790	115.62196	31.50351	0.0636831	0.21025357	2.8009614	21	8 2.6	18.6
130221 2000 AG_{248}	16.5	X	326.62616	304.94394	66.18710	0.60876	0.0882926	0.21321475	2.7749674	21	9 11.9	19.9
130222 2000 BM	15.0	X	296.81853	258.34517	298.79116	7.51054	0.0258495	0.18469489	3.0537452	21	—	—
130223 2000 BA_2	15.3	X	298.79902	0.21055	231.04964	0.28941	0.2229394	0.18444365	3.0565176	21	1 14.2	20.0
130224 2000 BL_7	15.3	X	191.61403	323.90544	89.24007	3.05043	0.0752326	0.20093032	2.8869487	21	5 15.9	19.7
130225 2000 BW_{10}	15.9	X	143.22855	358.82408	113.87851	6.87345	0.0780495	0.20294840	2.8677786	21	6 7.4	20.1
130226 2000 BT_{20}	15.8	X	314.78347	279.43177	123.85827	13.92885	0.2218865	0.21650696	2.7467648	21	9 29.6	18.7
130227 2000 BC_{22}	15.1	X	52.24771	142.62070	98.04818	1.88139	0.0434133	0.15892970	3.3754577	21	7 23.1	19.8
130228 2000 BV_{32}	15.5	X	274.62849	112.67198	2.04261	0.57508	0.1357385	0.17305188	3.1892251	21	10 27.5	19.7
130229 Igorlazbin	15.4	X	324.01308	20.88003	107.50233	3.01912	0.1323162	0.17933613	3.1142790	21	—	—
130230 2000 BN_{36}	15.7	X	99.85264	336.07190	113.44633	3.10911	0.0603551	0.19434986	2.9517521	21	3 16.6	19.8
130231 2000 BS_{38}	15.9	X	36.50654	213.56484	131.22858	6.02718	0.1761346	0.21883102	2.7272825	21	12 8.5	19.5
130232 2000 BC_{50}	16.1	X	205.59587	316.69723	111.27978	3.19312	0.0469758	0.20397600	2.8581389	21	6 19.9	20.2
130233 2000 CJ_8	16.8	X	158.36595	153.64972	126.43461	24.19641	0.0532808	0.36252940	1.9479325	21	—	—
130234 2000 CR_{13}	14.8	X	278.17810	346.27071	150.82096	9.93672	0.0421454	0.17505667	3.1648292	21	12 12.4	19.3
130235 2000 CC_{24}	14.8	X	341.82123	5.41496	138.02013	12.74201	0.1149248	0.18247938	3.0784127	21	—	—
130236 2000 CX_{24}	14.4	X	247.08813	276.61967	313.77322	25.22381	0.1921181	0.17813138	3.1283051	21	—	—
130237 2000 CJ_{26}	14.5	X	290.70225	219.66505	316.71097	15.64607	0.2287404	0.17816904	3.1278642	21	—	—
130238 2000 CK_{32}	15.9	X	22.11318	300.87601	161.27519	1.58564	0.1693118	0.18471361	3.0535389	21	—	—
130239 2000 CU_{39}	14.4	X	302.25097	221.23631	303.59144	26.48865	0.1517561	0.17942874	3.1132074	21	—	—
130240 2000 CD_{41}	15.1	X	302.09883	152.51943	332.57761	4.79172	0.1502265	0.17529249	3.1619901	21	12 18.5	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130241 2000 CE_{53}	15.1	X	0.87596	23.94223	125.81763	10.81688	0.0611565	0.18688006	3.0298938	21	1 14.8	19.2
130242 2000 CR_{54}	15.2	X	320.96649	347.14127	154.46625	13.94059	0.2507519	0.17846318	3.1244264	21	—	—
130243 2000 CA_{75}	16.4	X	240.46910	311.93886	299.62710	19.22549	0.0556128	0.36675764	1.9329321	21	—	—
130244 2000 CD_{76}	14.8	X	309.13841	211.76059	333.36891	14.55755	0.1368553	0.18045005	3.1014495	21	—	—
130245 2000 CO_{77}	14.7	X	304.60018	217.04457	342.79359	16.73372	0.1027148	0.18193230	3.0845809	21	1 2.1	19.4
130246 2000 CN_{83}	14.2	X	269.19970	240.71759	334.04738	25.81465	0.1870494	0.17852342	3.1237234	21	—	—
130247 2000 CE_{85}	15.0	X	10.19327	61.30119	96.63902	2.62519	0.1514205	0.18622492	3.0369958	21	2 2.5	18.5
130248 2000 CV_{90}	15.0	X	326.09050	287.76345	200.51116	9.28574	0.1463970	0.17946812	3.1127519	21	—	—
130249 Markminer	14.9	X	48.00694	256.65244	225.44183	13.13236	0.2303815	0.18995327	2.9971251	21	2 23.4	18.3
130250 2000 CD_{116}	14.7	X	100.27372	349.66242	327.99095	8.78017	0.0758647	0.17470961	3.1690191	21	12 27.2	19.5
130251 2000 CM_{118}	14.9	X	213.62772	248.26996	141.70675	10.04720	0.1251711	0.19964830	2.8992943	21	5 11.4	19.6
130252 2000 CN_{135}	16.0	X	356.09984	71.09287	141.16894	2.18536	0.1398014	0.19052063	2.9911719	21	3 21.9	19.4
130253 2000 DV_{2}	15.8	X	8.77503	246.40389	312.57677	1.94076	0.0307236	0.19252733	2.9703511	21	3 28.1	19.6
130254 2000 DJ_{14}	15.2	X	301.75286	150.89416	145.03237	1.12807	0.1862468	0.19215729	2.9741632	21	4 10.1	19.2
130255 2000 DQ_{18}	15.4	X	302.61239	353.53574	164.97331	5.96547	0.2159171	0.17864277	3.1223320	21	—	—
130256 2000 DG_{24}	14.8	X	267.44501	221.38470	336.93775	9.49344	0.1710844	0.17744832	3.1363279	21	—	—
130257 2000 DB_{31}	14.7	X	87.20547	215.34980	147.63213	10.14119	0.0915394	0.17824181	3.1270128	21	—	—
130258 2000 DL_{33}	14.9	X	201.66904	84.96547	160.63752	11.45335	0.0936980	0.17464624	3.1697856	21	—	—
130259 2000 DV_{33}	15.3	X	274.63798	208.51550	311.02648	3.82428	0.1455289	0.17453996	3.1710723	21	12 20.4	19.5
130260 2000 DP_{38}	14.4	X	339.46692	273.86415	157.60479	15.87017	0.0452002	0.17218533	3.1999163	21	12 13.0	19.0
130261 2000 DV_{38}	15.2	X	284.77057	82.23133	188.50190	3.18201	0.1741070	0.18692406	3.0294183	21	2 19.7	19.7
130262 2000 DY_{39}	14.6	X	211.90078	139.53945	166.79614	10.70785	0.1205404	0.18350988	3.0668774	21	1 27.3	19.5
130263 2000 DP_{42}	15.1	X	340.79251	85.64815	352.63027	5.03310	0.1217166	0.17450742	3.1714665	21	12 24.3	18.9
130264 2000 DZ_{44}	15.3	X	102.25272	25.22947	332.15480	18.72457	0.1777818	0.22427102	2.6829996	21	—	—
130265 2000 DB_{48}	15.1	X	245.95090	279.36286	346.64861	5.95505	0.1487151	0.18123075	3.0925362	21	1 13.6	20.1
130266 2000 DF_{50}	16.1	X	26.19968	265.20389	147.55829	7.94131	0.0748649	0.22194658	2.7016998	21	—	—
130267 2000 DK_{53}	15.4	X	259.93392	260.56509	169.88467	11.22097	0.2797552	0.21025202	2.8009752	21	7 27.3	19.8
130268 2000 DP_{54}	14.8	X	304.03458	22.77707	161.87188	11.37916	0.0390603	0.18022956	3.1039785	21	—	—
130269 2000 DU_{54}	15.5	X	246.41242	46.28487	167.51422	1.78587	0.1141752	0.17548111	3.1597239	21	—	—
130270 2000 DZ_{54}	15.1	X	35.08535	73.60042	356.14905	1.64222	0.1866440	0.18072604	3.0982911	21	—	—
130271 2000 DJ_{60}	15.2	X	272.39134	47.79069	130.16481	1.27221	0.0607115	0.17520421	3.1630522	21	—	—
130272 2000 DY_{60}	15.0	X	266.16726	71.48995	132.07060	2.00946	0.1093516	0.17678235	3.1441996	21	—	—
130273 2000 DV_{64}	15.6	X	12.32420	310.43886	180.37991	4.45957	0.1631067	0.18315668	3.0708189	21	1 1.0	19.1
130274 2000 DT_{65}	15.4	X	237.81499	38.76243	195.00428	2.17318	0.0914945	0.17701655	3.1414258	21	—	—
130275 2000 DD_{70}	15.3	X	186.34413	305.68210	73.52005	2.13514	0.0578565	0.19026524	2.9938480	21	3 30.0	19.6
130276 2000 DY_{76}	16.9	X	256.13448	85.24963	171.13958	6.07239	0.1627354	0.31910066	2.1208873	21	—	—
130277 2000 DT_{79}	14.9	X	319.19386	146.78863	14.55815	4.87094	0.1002485	0.18148028	3.0897008	21	—	—
130278 2000 DZ_{82}	15.1	X	43.06690	124.48398	356.65774	7.72094	0.0526848	0.18714671	3.0270150	21	2 9.4	19.1
130279 2000 DO_{87}	14.4	X	128.04010	164.66497	132.77686	21.15122	0.1105615	0.17249617	3.1960709	21	—	—
130280 2000 DJ_{103}	14.9	X	322.08920	135.00047	6.61968	13.93028	0.1038943	0.17797604	3.1301251	21	—	—
130281 2000 EM	15.4	X	37.45051	70.64075	19.64984	5.66189	0.1522611	0.18161878	3.0881298	21	—	—
130282 2000 EZ_{2}	15.7	X	273.82399	124.93333	226.47599	0.99640	0.1143192	0.19798055	2.9155536	21	5 25.8	19.9
130283 Elizabethgraham	15.0	X	351.59234	87.85425	52.89882	17.16495	0.0669963	0.17892050	3.1191002	21	—	—
130284 2000 EL_{17}	15.1	X	335.30401	349.96053	178.74923	6.60595	0.2013858	0.18125306	3.0922825	21	—	—
130285 2000 EW_{18}	14.8	X	230.75746	112.42795	146.23817	10.81370	0.0682823	0.17974519	3.1095523	21	—	—
130286 2000 EN_{22}	15.7	X	153.82955	233.67486	153.23533	3.88869	0.0980812	0.19092016	2.9869975	21	3 6.6	20.3
130287 2000 EW_{27}	14.3	X	1.45822	273.07300	129.08177	19.49929	0.1379211	0.17308802	3.1887811	21	12 15.6	18.5
130288 2000 ED_{35}	14.9	X	341.78628	329.39309	196.44672	9.45794	0.2074879	0.18330988	3.0691078	21	—	—
130289 2000 EX_{35}	15.2	X	295.44881	124.74369	197.29178	1.57724	0.1139616	0.19586773	2.9364828	21	5 15.8	19.3
130290 2000 EO_{39}	14.8	X	300.29279	168.14414	11.48983	7.95816	0.1508698	0.17706008	3.1409109	21	—	—
130291 2000 ES_{39}	14.9	X	18.09822	0.45719	121.86600	2.15710	0.1317223	0.18131060	3.0916282	21	1 2.9	18.6
130292 2000 ER_{41}	14.8	X	265.46613	184.81886	20.16731	9.59409	0.0578603	0.17453677	3.1711109	21	—	—
130293 2000 EH_{44}	15.0	X	284.76707	241.39849	309.70105	2.53442	0.1145176	0.17608398	3.1525077	21	—	—
130294 2000 EA_{59}	15.3	X	339.02690	296.08259	173.09844	0.36232	0.1545513	0.17947222	3.1127045	21	—	—
130295 2000 EF_{60}	15.5	X	183.09933	290.40691	322.77444	0.79462	0.2757081	0.16789218	3.2542362	21	12 24.3	21.1
130296 2000 EF_{62}	15.6	X	291.66295	16.27897	155.43944	1.49222	0.1315326	0.17545626	3.1600222	21	—	—
130297 2000 ET_{62}	14.5	X	182.87768	108.11864	176.57270	25.29740	0.2244212	0.17182899	3.2043388	21	—	—
130298 2000 EA_{68}	14.4	X	147.95043	121.58621	179.14952	14.38467	0.1235876	0.17105333	3.2140184	21	—	—
130299 2000 EQ_{68}	14.7	X	195.80652	67.55557	185.06939	12.51770	0.1040135	0.17086075	3.2164331	21	—	—
130300 2000 EV_{69}	14.7	X	199.48252	284.84971	11.97938	9.61985	0.0594649	0.17715382	3.1398028	21	1 7.8	19.5
130301 2000 EP_{71}	15.5	X	182.55589	170.42747	176.96916	2.79794	0.1195797	0.18509894	3.0492995	21	2 17.5	20.2
130302 2000 EH_{78}	15.3	X	278.42400	103.87406	45.70100	2.50766	0.2278027	0.17421241	3.1750458	21	12 1.3	19.4
130303 2000 EO_{79}	14.6	X	269.61506	245.31690	347.75645	16.96180	0.0230711	0.18197146	3.0841385	21	1 12.8	19.3
130304 2000 EY_{82}	14.4	X	225.57738	219.36010	13.20483	17.34973	0.1276548	0.17422413	3.1749034	21	—	—
130305 2000 EW_{88}	14.6	X	39.56808	290.82240	138.52685	17.56093	0.1487164	0.18079353	3.0975200	21	—	—
130306 2000 EN_{96}	14.8	X	262.04429	53.92913	155.01471	10.64852	0.0973966	0.17477964	3.1681725	21	—	—
130307 2000 EP_{102}	16.5	X	87.53761	203.13562	193.56482	3.02102	0.1891797	0.22672563	2.6635998	21	—	—
130308 2000 EZ_{102}	14.5	X	244.00594	170.54249	53.65002	17.00610	0.1553943	0.17414223	3.1758988	21	—	—
130309 2000 EM_{103}	14.6	X	309.67126	62.31746	91.50757	19.76159	0.2145615	0.17705459	3.1409758	21	—	—
130310 2000 EP_{103}	14.2	X	249.37901	151.10249	79.20640	18.33894	0.1822044	0.17601839	3.1532908	21	—	—
130311 2000 EW_{105}	14.3	X	262.66649	17.47581	171.81602	27.27201	0.1184817	0.17220571	3.1996639	21	—	—
130312 2000 EX_{107}	14.8	X	283.86859	327.91001	189.15857	11.47222	0.1666503	0.17545931	3.1599856	21	12 27.3	19.0
130313 2000 EM_{120}	15.0	X	329.63935	72.33357	97.46607	6.56423	0.1110646	0.18231421	3.0802717	21	—	—
130314 Williamodonnell	14.4	X	319.02376	101.09064	41.90618	12.52859	0.1040138	0.17887399	3.1196408	21	—	—
130315 2000 EV_{122}	15.4	X	341.34605	231.23445	172.61444	2.24903	0.1107846	0.16808819	3.2517059	21	11 10.6	19.4
130316 2000 EK_{123}	14.7	X	264.08018	63.01081	109.63183	2.62908	0.1670336	0.17342413	3.1846597	21	12 18.9	19.0
130317 2000 EK_{124}	14.6	X	322.75566	304.68605	130.51928	5.21121	0.1161893	0.17045019	3.2215958	21	11 21.8	18.7
130318 2000 EO_{130}	15.2	X	30.79548	14.20544	109.03329	2.93902	0.2262831	0.18508447	3.0494585	21	1 25.1	18.2
130319 Danielpelham	15.1	X	319.97691	61.71055	103.74969	8.99257	0.1653635	0.18011810	3.1052589	21	—	—
130320 Maherrassas	15.1	X	280.19091	26.25771	127.31877	2.05646	0.1321864	0.17333649	3.1857331	21	12 22.4	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130321 2000 EW_{163}	15.2	X	247.06336	80.81481	143.52653	3.00952	0.1815306	0.17499197	3.1656092	21	—	—
130322 2000 EO_{166}	15.3	X	314.64917	172.19537	0.00129	19.48135	0.0656851	0.36542464	1.9376299	21	—	—
130323 2000 ED_{169}	14.6	X	4.19851	71.99101	53.62071	12.37969	0.1936954	0.18254898	3.0776303	21	—	—
130324 2000 EC_{170}	14.8	X	281.67554	0.71616	152.16411	29.93076	0.1906129	0.17379275	3.1801549	21	12 20.1	19.4
130325 2000 EV_{178}	14.2	X	207.43449	180.48144	114.09263	17.05902	0.0400283	0.18228939	3.0805514	21	1 10.7	18.7
130326 2000 EJ_{183}	15.2	X	317.34188	57.22088	134.55599	16.34069	0.1282189	0.18155852	3.0888131	21	1 1.8	19.6
130327 2000 EU_{189}	15.7	X	307.41551	42.61248	200.55750	3.51509	0.0695770	0.18731165	3.0252378	21	2 26.4	19.8
130328 2000 FT_{6}	15.3	X	155.09861	184.67312	200.44054	7.67405	0.1000544	0.18390793	3.0624505	21	3 4.5	20.1
130329 2000 FG_{11}	14.6	X	347.20146	170.24926	23.95315	12.52979	0.1438836	0.18655433	3.0334196	21	2 17.3	18.5
130330 2000 FK_{11}	14.7	X	276.58790	109.73927	87.47472	11.13433	0.1815258	0.17741826	3.1366821	21	—	—
130331 2000 FJ_{14}	15.6	X	31.04295	80.28072	32.40078	1.84710	0.1476197	0.18133692	3.0913290	21	1 12.7	19.1
130332 2000 FC_{23}	14.6	X	235.19315	225.55795	36.52990	27.65459	0.1186212	0.17684811	3.1434202	21	—	—
130333 2000 FT_{23}	14.7	X	249.21596	94.71599	156.33645	17.52461	0.0967683	0.17688398	3.1429952	21	1 2.2	19.8
130334 2000 FD_{24}	14.1	X	202.48167	238.10711	49.68760	26.04848	0.2759805	0.17289975	3.1910956	21	1 1.5	20.1
130335 2000 FZ_{26}	14.8	X	290.20539	249.26037	13.05168	22.35607	0.2937388	0.18119791	3.0929098	21	2 13.8	20.0
130336 2000 FU_{27}	15.0	X	359.67684	289.38179	194.84449	25.80297	0.2195962	0.17980253	3.1088911	21	—	—
130337 2000 FR_{29}	15.1	X	312.96349	151.52355	19.81699	7.46148	0.1070044	0.17686734	3.1431923	21	—	—
130338 2000 FO_{34}	14.5	X	274.22945	100.14183	136.32664	17.09865	0.1038295	0.17907877	3.1172620	21	1 9.4	19.3
130339 2000 FC_{39}	14.0	X	210.53268	257.32978	24.36286	26.76646	0.1517494	0.17466869	3.1695140	21	1 1.7	19.6
130340 2000 FU_{43}	15.1	X	319.93930	23.85059	175.96330	17.47182	0.1584020	0.18095014	3.0957325	21	1 8.7	19.7
130341 2000 FU_{47}	15.2	X	276.85648	124.69715	77.09973	9.59378	0.1655382	0.17515565	3.1636368	21	—	—
130342 2000 FK_{53}	14.8	X	309.53267	30.86770	15.58722	17.06967	0.0915262	0.16045094	3.3540886	21	9 28.1	19.2
130343 2000 FB_{56}	15.0	X	250.56343	82.81695	177.50069	15.90451	0.2043641	0.17732181	3.1378194	21	1 6.2	20.5
130344 2000 FL_{57}	15.0	X	86.72169	19.39903	103.29294	11.71079	0.0564570	0.19007659	2.9958285	21	4 15.1	19.3
130345 2000 FQ_{57}	14.7	X	30.99650	129.57246	17.82431	11.86376	0.0069731	0.18458429	3.0549649	21	2 27.5	19.0
130346 2000 FA_{61}	15.3	X	31.03345	308.24501	173.74139	17.56132	0.1602421	0.18229954	3.0804370	21	1 21.9	19.1
130347 2000 FV_{63}	14.6	X	337.81093	67.64709	48.36239	10.17404	0.0588887	0.17465839	3.1696386	21	—	—
130348 2000 FJ_{72}	16.3	X	287.91850	157.07604	15.08114	1.18404	0.1292112	0.17540956	3.1605831	21	—	—
130349 2000 FC_{73}	14.9	X	279.32188	111.48041	102.07897	7.53622	0.1021989	0.17781149	3.1320559	21	—	—
130350 2000 GS_{4}	15.8	X	197.08886	214.08810	36.85708	22.35369	0.0502833	0.35643571	1.9700712	21	—	—
130351 2000 GQ_{16}	14.9	X	269.59472	88.24258	193.22377	13.34924	0.1095033	0.18359542	3.0659248	21	2 22.3	19.7
130352 2000 GU_{19}	14.9	X	142.42064	89.70146	194.39404	12.16825	0.0092743	0.16904945	3.2393674	21	12 27.5	19.7
130353 2000 GD_{21}	15.1	X	295.87258	20.83977	208.75732	4.66693	0.0802193	0.18090771	3.0962166	21	1 26.4	19.5
130354 2000 GF_{25}	15.2	X	26.85746	247.14853	216.14669	1.08291	0.0752753	0.17821640	3.1273100	21	—	—
130355 2000 GG_{35}	15.1	X	26.45262	240.23647	203.12715	8.67344	0.0679474	0.17492881	3.1663712	21	—	—
130356 2000 GW_{43}	14.8	X	228.88958	25.83695	195.84391	12.81453	0.1074391	0.17063182	3.2193092	21	—	—
130357 2000 GD_{47}	15.3	X	265.38565	327.52456	224.13558	2.03769	0.1475030	0.17227320	3.1988281	21	—	—
130358 2000 GT_{61}	14.9	X	205.75269	93.73903	206.12220	15.50165	0.1041240	0.17611220	3.1521709	21	1 13.6	20.2
130359 2000 GQ_{65}	14.0	X	226.77435	63.75324	207.62609	22.44968	0.2488786	0.17297887	3.1901224	21	—	—
130360 2000 GW_{70}	15.0	X	345.24920	286.41101	215.79787	8.69761	0.0515048	0.17519624	3.1631481	21	—	—
130361 2000 GN_{86}	15.4	X	280.70607	85.88271	124.85617	13.60753	0.2323105	0.17724033	3.1387810	21	—	—
130362 2000 GY_{87}	14.2	X	335.01537	83.41170	65.10089	10.87964	0.1794774	0.17758339	3.1347374	21	—	—
130363 2000 GH_{93}	14.5	X	238.68141	146.53017	148.27590	13.18882	0.1997077	0.17847382	3.1243022	21	2 5.2	19.6
130364 2000 GJ_{97}	14.7	X	196.74512	262.20313	33.04130	10.58768	0.0761071	0.17724160	3.1387660	21	1 2.7	19.6
130365 2000 GV_{100}	15.0	X	279.95649	114.91179	139.95177	5.14223	0.0731632	0.18269205	3.0760233	21	2 9.2	19.4
130366 2000 GT_{116}	15.4	X	302.63695	249.62222	198.97228	3.83282	0.0734230	0.16806895	3.2519540	21	11 10.5	19.7
130367 2000 GS_{118}	15.5	X	30.62149	186.44706	186.32851	10.51821	0.0501972	0.16821521	3.2500687	21	12 7.5	20.1
130368 2000 GF_{121}	15.4	X	9.85055	55.10275	9.73818	0.48420	0.1613777	0.17221483	3.1995508	21	—	—
130369 2000 GZ_{124}	14.3	X	207.02323	117.22412	205.81969	20.67997	0.3591140	0.17311221	3.1884841	21	2 8.1	20.6
130370 2000 GP_{129}	15.6	X	355.44143	244.84388	192.63099	15.92961	0.2303821	0.17374049	3.1807926	21	—	—
130371 2000 GZ_{147}	14.9	X	192.20209	129.18603	191.03732	10.18671	0.0663433	0.18109719	3.0940566	21	1 23.2	19.8
130372 2000 GP_{149}	16.2	X	290.05620	64.62727	140.02840	0.69581	0.1049338	0.17861276	3.1226818	21	—	—
130373 2000 GU_{156}	14.8	X	189.79572	295.43550	18.16435	8.57157	0.1950923	0.17392114	3.1785897	21	1 23.0	20.2
130374 2000 GB_{164}	14.6	X	319.56150	29.00503	125.96767	10.52356	0.1696771	0.17470706	3.1690499	21	—	—
130375 2000 GX_{170}	14.8	X	190.99205	285.04915	352.92744	8.65813	0.0755938	0.17339611	3.1850027	21	—	—
130376 2000 GJ_{178}	14.9	X	256.09020	114.63766	97.50585	6.47349	0.0935295	0.17350879	3.1836237	21	—	—
130377 2000 GJ_{183}	15.3	X	51.20174	208.15404	187.53567	9.17623	0.0691901	0.17411353	3.1762478	21	—	—
130378 2000 HR	15.0	X	58.28074	12.44752	57.34779	6.36969	0.1719780	0.17741969	3.1366653	21	1 8.3	18.6
130379 2000 HO_{15}	14.0	X	24.59151	113.31451	205.97315	16.88499	0.1534551	0.15512221	3.4304682	21	10 2.5	18.4
130380 2000 HN_{33}	15.4	X	164.56914	247.33090	44.90469	3.70527	0.2664302	0.16709484	3.2645803	21	—	—
130381 2000 HR_{35}	14.8	X	218.34688	205.42971	78.21836	12.09567	0.1804046	0.17416156	3.1756638	21	1 9.7	20.1
130382 2000 HW_{60}	14.7	X	172.78644	153.66976	40.05037	5.95476	0.0806761	0.16006438	3.3594866	21	10 15.9	19.8
130383 2000 HA_{61}	17.0	X	216.27860	115.61909	177.78125	1.42033	0.1935189	0.31412423	2.1432283	21	—	—
130384 2000 HB_{77}	14.3	X	164.68604	279.66045	60.80878	24.99257	0.1829533	0.17370016	3.1812849	21	2 5.8	19.9
130385 2000 JS_{29}	15.1	X	164.34804	332.78502	292.93989	2.85052	0.2460403	0.16351405	3.3120687	21	12 25.6	20.8
130386 2000 JY_{33}	15.7	X	93.29985	76.10653	281.89771	5.14939	0.2968765	0.30431498	2.1890407	21	—	—
130387 2000 JJ_{40}	16.7	X	218.86099	185.74121	92.02090	1.35597	0.1235310	0.31221173	2.1519718	21	—	—
130388 2000 JY_{66}	14.9	X	231.26949	146.23632	127.54744	17.54324	0.1906238	0.17469576	3.1691865	21	1 8.3	20.2
130389 2000 JH_{70}	14.7	X	342.93769	285.70947	242.92290	14.33662	0.1989945	0.18101061	3.0950431	21	—	—
130390 2000 JW_{70}	14.8	X	278.24331	17.92183	217.29817	19.97439	0.1004511	0.17935917	3.1140123	21	1 8.4	19.8
130391 2000 JG_{81}	8.0	X	26.68787	170.67304	45.99672	23.46289	0.2817852	0.00299213	47.6959992	21	6 11.4	23.7
130392 2000 KM_{60}	15.0	X	233.77570	225.95053	110.62693	7.40856	0.2521801	0.18024236	3.1038316	21	3 21.9	20.4
130393 2000 KV_{67}	14.1	X	178.29911	213.05256	75.87051	22.04633	0.1603927	0.17180956	3.2045804	21	—	—
130394 2000 LL_{14}	16.2	X	136.31941	172.42880	153.93857	2.49053	0.2159359	0.30463101	2.1875264	21	—	—
130395 2000 LX_{25}	15.3	X	233.68588	65.60028	217.69287	23.62118	0.2342332	0.30991529	2.1625893	21	—	—
130396 2000 LD_{31}	16.2	X	0.71822	146.57369	195.84265	5.31136	0.1683109	0.29080932	2.2563017	21	10 20.5	17.9
130397 2000 LB_{32}	16.2	X	208.80550	45.40008	248.04910	3.99076	0.2093232	0.30859095	2.1687721	21	—	—
130398 2000 NR_{8}	15.8	X	32.39618	245.64000	147.14171	6.35095	0.1187439	0.29641931	2.2277428	21	—	—
130399 2000 NG_{13}	16.4	X	236.85975	45.54701	208.36027	2.68342	0.1500784	0.30716216	2.1754924	21	—	—
130400 2000 NP_{13}	16.5	X	50.92641	132.38625	167.46543	4.46228	0.1731158	0.28748537	2.2736602	21	11 10.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130401 2000 NX_{18}	16.0	X	191.86795	293.48549	309.47321	7.48052	0.1254217	0.30011640	2.2094096	21	—	—
130402 2000 OP_{6}	16.1	X	133.59722	94.16101	247.38992	5.57557	0.1556432	0.30339854	2.1934466	21	—	—
130403 2000 OZ_{13}	16.1	X	247.37508	301.00636	321.98408	1.74502	0.0648135	0.30997280	2.1623218	21	—	—
130404 2000 OQ_{16}	15.8	X	226.28790	223.29211	67.99250	2.89433	0.1084559	0.30990815	2.1626225	21	1 3.6	18.8
130405 2000 OO_{17}	16.0	X	183.61798	192.43267	147.17037	1.73523	0.1635995	0.30914158	2.1661961	21	1 25.1	19.2
130406 2000 OF_{25}	13.8	X	247.86163	35.47113	319.57493	14.04728	0.2384201	0.17889380	3.1194105	21	4 14.1	19.3
130407 2000 OV_{29}	16.4	X	76.58350	133.04640	209.88842	3.25027	0.2238445	0.29547932	2.2324650	21	—	—
130408 2000 ON_{32}	16.2	X	136.90399	91.00286	219.22745	5.73653	0.2071552	0.30059936	2.2070424	21	—	—
130409 2000 OB_{33}	16.2	X	79.16929	163.53021	202.84326	4.65033	0.1956385	0.29867214	2.2165264	21	—	—
130410 2000 OW_{40}	16.7	X	318.07512	120.80629	216.38388	3.31930	0.2116611	0.27854617	2.3220483	21	6 22.5	18.8
130411 2000 OU_{44}	15.6	X	318.70041	53.86408	299.12764	5.63428	0.1715568	0.27887813	2.3202053	21	7 27.3	17.4
130412 2000 OT_{45}	16.2	X	140.75237	77.63599	265.09418	4.04667	0.1215419	0.30272430	2.1967023	21	—	—
130413 2000 OO_{47}	15.9	X	286.96150	19.32428	336.85290	2.74164	0.1752211	0.27434014	2.3457217	21	6 5.3	18.6
130414 2000 OU_{51}	15.5	X	357.53869	117.88684	251.28981	5.68459	0.1242991	0.28477809	2.2880473	21	11 16.7	17.6
130415 2000 OH_{57}	15.0	X	304.44971	316.74772	128.01917	25.47600	0.2821098	0.28880719	2.2667174	21	11 29.7	17.0
130416 2000 OJ_{58}	16.4	X	108.54744	250.41593	106.24519	5.21076	0.1517365	0.30073589	2.2063744	21	—	—
130417 2000 OR_{58}	16.1	X	286.01598	35.58493	116.04100	3.28802	0.0596780	0.29853653	2.2171976	21	—	—
130418 2000 OV_{60}	14.4	X	343.44250	237.29734	120.71268	12.68967	0.2327441	0.14211483	3.6367193	21	9 13.3	18.4
130419 2000 PP	16.6	X	292.52512	245.10787	184.64714	6.46391	0.0732291	0.28841459	2.2687740	21	10 23.1	18.8
130420 2000 PB_{10}	16.0	X	5.01418	283.09426	57.23033	6.10043	0.1883754	0.28430996	2.2905582	21	10 28.8	17.8
130421 2000 PN_{11}	15.6	X	318.26703	260.53562	95.29299	10.30295	0.1002590	0.27900401	2.3195073	21	8 13.2	18.0
130422 2000 PZ_{15}	16.2	X	251.41120	351.42171	290.73942	3.61232	0.0710447	0.31231395	2.1515022	21	1 18.9	18.8
130423 2000 PA_{16}	16.0	X	325.74591	298.56724	140.01936	6.20041	0.0958758	0.29382243	2.2408498	21	—	—
130424 2000 PV_{18}	15.8	X	73.92412	351.50212	323.85306	5.18498	0.1146885	0.29207127	2.2497978	21	12 20.8	18.9
130425 2000 PF_{19}	15.8	X	314.52160	17.05205	354.24191	7.26411	0.1251444	0.28209024	2.3025585	21	8 26.9	17.8
130426 2000 PT_{21}	16.0	X	22.32654	314.37082	7.88605	5.57219	0.1781323	0.28598993	2.2815792	21	10 29.1	18.3
130427 2000 PU_{21}	16.3	X	193.01522	233.48145	14.13966	6.43013	0.2128334	0.30122418	2.2039894	21	—	—
130428 2000 PF_{22}	16.6	X	136.82593	245.78473	53.17612	7.75915	0.1529894	0.29798373	2.2199389	21	—	—
130429 2000 PY_{22}	16.0	X	100.19364	282.67323	108.22789	5.02644	0.1773261	0.30451413	2.1880862	21	—	—
130430 2000 PM_{24}	16.3	X	97.84392	276.98038	69.61745	7.94901	0.2249455	0.29617944	2.2289455	21	—	—
130431 2000 PQ_{24}	16.1	X	261.21570	47.23008	334.22473	9.82999	0.0205235	0.27677681	2.3319340	21	7 2.8	19.1
130432 2000 QM_{4}	15.8	X	237.86522	249.85931	157.17709	8.41283	0.1187162	0.27441708	2.3452832	21	6 23.2	19.3
130433 2000 QO_{9}	16.1	X	170.69697	164.48936	246.93064	3.55847	0.1783842	0.26229435	2.4170006	21	4 19.9	19.9
130434 2000 QU_{11}	16.6	X	231.56575	308.77002	342.46405	2.22206	0.1082866	0.31041204	2.1602815	21	1 9.2	19.5
130435 2000 QB_{12}	15.5	X	304.40605	267.62745	145.90258	6.18868	0.1844959	0.28512245	2.2862047	21	10 7.3	17.2
130436 2000 QY_{13}	15.8	X	157.54748	257.31719	156.91844	2.72079	0.1825122	0.26659810	2.3909180	21	4 12.9	19.5
130437 2000 QJ_{15}	16.6	X	174.81493	105.58075	280.75809	1.25666	0.2161722	0.26432145	2.4046273	21	3 25.0	20.6
130438 2000 QS_{17}	16.0	X	231.39610	331.85710	142.14370	6.58898	0.0426278	0.28485848	2.2876168	21	9 30.7	18.8
130439 2000 QO_{18}	16.4	X	238.17441	136.48889	206.29491	1.75597	0.2107817	0.26833846	2.3805690	21	3 23.8	20.3
130440 2000 QW_{18}	16.3	X	241.65691	41.08401	353.59748	4.74571	0.1765238	0.27392762	2.3480761	21	6 3.7	19.9
130441 2000 QQ_{20}	15.6	X	2.29460	15.92300	343.14145	2.27578	0.1398138	0.28556364	2.2838493	21	11 12.0	17.6
130442 2000 QL_{24}	15.3	X	37.85204	333.67269	321.04416	5.99350	0.1174049	0.28296396	2.2978163	21	10 1.5	17.9
130443 2000 QC_{26}	15.4	X	334.52473	8.31325	358.53490	7.85387	0.1452965	0.28267077	2.2994049	21	9 27.5	17.1
130444 2000 QJ_{29}	16.0	X	70.90322	320.96836	355.20080	6.09980	0.2109470	0.29044508	2.2581877	21	12 28.1	19.5
130445 2000 QV_{31}	16.4	X	322.77069	354.10178	31.22135	4.33380	0.2567698	0.28262586	2.2996485	21	9 25.4	17.3
130446 2000 QO_{36}	16.7	X	316.56058	186.08217	157.91529	6.01127	0.1877952	0.27946676	2.3169461	21	7 4.7	19.0
130447 2000 QZ_{42}	16.4	X	16.57058	230.93604	167.92893	6.05868	0.2544141	0.24373816	2.5381680	21	—	—
130448 2000 QP_{43}	16.5	X	302.95399	253.09206	160.54675	4.31005	0.0385903	0.28610424	2.2809715	21	10 19.6	19.0
130449 2000 QY_{48}	16.5	X	319.48501	254.44143	141.30955	0.89976	0.1772931	0.28383798	2.2930967	21	10 11.1	18.1
130450 2000 QP_{50}	16.3	X	238.50169	235.54178	139.81907	3.87021	0.1628293	0.27139025	2.3626890	21	5 9.2	19.8
130451 2000 QE_{56}	17.2	X	193.44039	144.75321	136.18175	3.44686	0.1200471	0.30369312	2.1920279	21	—	—
130452 2000 QX_{56}	16.3	X	74.99888	91.07135	144.42746	11.88196	0.1112514	0.28193683	2.3033937	21	9 3.8	19.0
130453 2000 QT_{59}	14.0	X	260.51495	293.54213	354.95163	3.26898	0.1563638	0.12428669	3.9766708	21	2 27.5	19.9
130454 2000 QK_{61}	16.1	X	189.46129	30.19499	23.08198	2.70048	0.1272101	0.26860556	2.3789905	21	5 9.0	19.6
130455 2000 QD_{63}	15.9	X	30.51223	275.40853	53.40664	7.23833	0.1021233	0.28598308	2.2816157	21	11 9.9	18.4
130456 2000 QE_{63}	15.8	X	342.25860	323.18751	55.91005	6.95433	0.1307357	0.28477441	2.2880670	21	11 4.7	17.6
130457 2000 QZ_{65}	15.8	X	176.14325	18.51357	70.65758	7.15194	0.0876402	0.27079710	2.3661378	21	6 11.4	19.1
130458 2000 QG_{66}	15.8	X	3.49777	349.01074	44.85830	8.35387	0.1922743	0.28798332	2.2710385	21	—	—
130459 2000 QZ_{66}	16.1	X	294.33214	221.37944	136.65476	7.20564	0.1348184	0.27637980	2.3341666	21	6 26.7	18.7
130460 2000 QL_{67}	15.5	X	128.68025	241.75543	52.62695	6.15241	0.1438576	0.29554669	2.2321257	21	—	—
130461 2000 QR_{71}	15.9	X	67.71548	9.71151	319.23872	5.35410	0.1331769	0.29186698	2.2508475	21	—	—
130462 2000 QU_{73}	15.6	X	163.73184	348.66169	321.33303	3.27129	0.1609939	0.30235807	2.1984757	21	—	—
130463 2000 QR_{74}	15.8	X	170.74565	215.98133	214.26202	1.74358	0.1401183	0.26870766	2.3783879	21	5 13.3	19.4
130464 2000 QU_{77}	16.6	X	271.44835	101.01375	254.30608	1.33149	0.2179163	0.27319848	2.3522521	21	5 9.8	19.9
130465 2000 QF_{78}	16.4	X	220.46793	198.97325	168.97901	2.23013	0.1653158	0.26771516	2.3842625	21	4 11.4	20.1
130466 2000 QL_{78}	16.6	X	269.97135	43.82247	299.60447	1.93608	0.1470480	0.27189531	2.3597622	21	4 30.3	19.8
130467 2000 QO_{78}	16.2	X	73.99331	159.42792	182.24267	3.29186	0.1567330	0.29318441	2.2440996	21	—	—
130468 2000 QQ_{79}	16.0	X	174.28561	121.98215	257.17628	1.00364	0.1925580	0.26217499	2.4177341	21	3 14.8	19.9
130469 2000 QQ_{80}	14.8	X	239.24674	186.54146	346.23040	11.85710	0.0886309	0.24449488	2.5329281	21	12 12.4	18.3
130470 2000 QM_{82}	16.4	X	97.87329	250.30386	171.38510	2.53351	0.1869052	0.25725115	2.4484871	21	2 11.8	19.2
130471 2000 QJ_{85}	16.6	X	88.55095	152.39858	184.93065	4.03808	0.1674394	0.29554594	2.2321295	21	—	—
130472 2000 QM_{85}	16.0	X	2.29574	212.57203	175.31234	5.65921	0.0977885	0.28987888	2.2611272	21	12 20.5	18.5
130473 2000 QJ_{86}	15.7	X	217.38693	140.94071	252.40825	5.22903	0.1143942	0.27116010	2.3640257	21	5 11.9	19.2
130474 2000 QU_{87}	16.8	X	211.90844	15.36755	284.62528	2.82579	0.1936821	0.30803626	2.1713750	21	1 3.6	20.2
130475 2000 QC_{90}	15.4	X	308.18064	56.74262	302.05631	5.51995	0.1317452	0.27846550	2.3224968	21	7 22.5	17.7
130476 2000 QZ_{93}	16.7	X	6.28230	164.67887	229.92752	2.39224	0.1706911	0.29010376	2.2599586	21	—	—
130477 2000 QK_{94}	17.1	X	226.28961	273.78798	47.99645	1.83181	0.1731287	0.31302916	2.1482238	21	2 12.4	20.4
130478 2000 QY_{95}	16.2	X	48.00564	312.83908	9.30794	2.87822	0.1969563	0.28816616	2.2700777	21	12 8.9	19.2
130479 2000 QB_{97}	16.3	X	115.65848	301.50074	22.26207	5.20261	0.1669995	0.29675508	2.2260621	21	—	—
130480 2000 QE_{97}	16.4	X	317.37753	342.66943	68.35955	2.81897	0.2789514	0.28298843	2.2976838	21	10 25.4	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130481 2000 QQ_{97}	16.0	X	28.23447	195.23140	146.15163	5.35926	0.1642294	0.28682844	2.2771305	21	12 5.3	18.6
130482 2000 QX_{97}	16.3	X	298.62202	281.94940	111.00996	3.80339	0.2304591	0.27932927	2.3177064	21	8 10.8	18.4
130483 2000 QX_{100}	15.9	X	292.75815	281.71536	135.22730	7.16438	0.0901081	0.28182125	2.3040234	21	10 3.1	18.3
130484 2000 QY_{101}	16.1	X	66.39096	179.16805	129.53933	6.98493	0.1211591	0.28775679	2.2722302	21	12 4.5	19.1
130485 2000 QN_{103}	16.1	X	151.39832	279.12129	108.27746	2.48282	0.1930098	0.25982232	2.4323071	21	3 5.6	19.8
130486 2000 QA_{106}	15.6	X	165.54916	314.70725	122.30985	8.74667	0.2419371	0.26494162	2.4008734	21	5 23.8	19.8
130487 2000 QJ_{112}	16.7	X	334.00403	4.04377	26.63859	0.88279	0.2088077	0.28419723	2.2911639	21	11 8.6	18.0
130488 2000 QS_{112}	16.4	X	168.75464	33.84738	2.25412	2.06209	0.1815506	0.26328193	2.4109526	21	3 30.6	20.1
130489 2000 QN_{113}	16.1	X	263.62955	134.69637	159.06461	6.17172	0.1134223	0.26600948	2.3944437	21	2 21.6	19.5
130490 2000 QY_{116}	16.3	X	136.23108	187.31695	130.06325	7.66302	0.1895454	0.29775969	2.2210523	21	—	—
130491 2000 QT_{117}	16.6	X	14.49067	223.73988	171.97957	6.96155	0.3121061	0.24203743	2.5500441	21	—	—
130492 2000 QT_{118}	16.5	X	137.22565	0.30984	273.05598	4.53729	0.1700113	0.29431523	2.2383477	21	—	—
130493 2000 QV_{118}	15.8	X	265.44991	166.86015	230.69349	5.66704	0.0670244	0.27671506	2.3322809	21	7 21.6	18.8
130494 2000 QH_{120}	16.6	X	90.16925	100.35473	193.12840	5.50992	0.2035417	0.29058597	2.2574577	21	12 16.7	20.1
130495 2000 QX_{126}	16.0	X	219.22813	359.47224	55.41805	5.12751	0.0799050	0.27244485	2.3565879	21	6 14.9	19.3
130496 2000 QT_{127}	15.4	X	321.27864	331.41171	16.32026	5.71104	0.1743258	0.27676155	2.3320197	21	7 26.2	17.4
130497 2000 QY_{127}	16.0	X	17.60743	216.64152	186.83548	4.58294	0.2599613	0.24101862	2.5572253	21	—	—
130498 2000 QW_{128}	16.0	X	9.14205	0.90516	300.88629	5.49164	0.1138566	0.27910198	2.3189645	21	8 22.2	18.2
130499 2000 QB_{129}	15.4	X	226.72440	206.73880	193.84712	4.76033	0.2189906	0.27054981	2.3675794	21	5 26.5	19.2
130500 2000 QR_{134}	15.8	X	230.51262	353.97824	25.74340	2.83820	0.2135596	0.27107386	2.3645271	21	5 2.3	19.6
130501 2000 QK_{136}	17.1	X	319.09098	250.79747	137.93816	1.43226	0.1753999	0.28374773	2.2935830	21	9 28.5	18.7
130502 2000 QR_{138}	16.7	X	338.42197	141.90467	170.32106	2.79898	0.1631494	0.27695210	2.3309499	21	7 3.4	18.7
130503 2000 QC_{140}	15.7	X	121.50207	41.95124	10.38264	6.72147	0.1184844	0.25831698	2.4417475	21	2 23.9	18.9
130504 2000 QL_{140}	15.5	X	257.42515	22.99307	4.94584	7.20713	0.1028875	0.27365694	2.3496242	21	6 22.6	18.7
130505 2000 QQ_{141}	15.7	X	178.49467	321.55300	95.60590	3.60778	0.1611782	0.26598346	2.3945999	21	5 5.8	19.5
130506 2000 QN_{144}	16.6	X	331.91151	342.73531	32.89282	2.99336	0.2039075	0.28219686	2.3019785	21	10 7.0	17.8
130507 2000 QS_{144}	15.8	X	130.85280	62.84150	27.90762	5.77199	0.1481005	0.26433759	2.4045295	21	4 28.0	19.0
130508 2000 QG_{145}	15.7	X	136.88674	78.97529	36.39594	6.79160	0.0702157	0.26937667	2.3744484	21	5 29.1	18.8
130509 2000 QK_{145}	16.4	X	259.78528	292.82919	55.60126	2.92284	0.1702116	0.27029041	2.3690940	21	4 24.4	19.9
130510 2000 QS_{151}	16.2	X	27.88799	164.10611	166.49156	5.72472	0.2068597	0.28874136	2.2670619	21	11 27.5	18.7
130511 2000 QG_{152}	16.0	X	187.49160	15.56699	51.91662	6.31089	0.1750352	0.26962746	2.3729758	21	5 26.1	19.6
130512 2000 QS_{154}	15.6	X	336.70251	213.53963	204.90373	8.33799	0.1662559	0.28959224	2.2626190	21	12 28.2	17.6
130513 2000 QG_{159}	16.2	X	70.95937	111.05661	188.68915	9.81085	0.1765676	0.28959166	2.2626221	21	12 4.4	19.5
130514 2000 QR_{163}	16.3	X	17.67987	204.15973	213.16621	6.88508	0.1433360	0.29612173	2.2292351	21	—	—
130515 2000 QC_{165}	15.7	X	292.27825	138.16657	255.19104	5.48546	0.1179385	0.28018629	2.3129778	21	8 16.5	18.2
130516 2000 QJ_{166}	15.8	X	210.52081	212.16249	203.60505	7.11139	0.1145968	0.27218125	2.3581092	21	6 4.8	19.4
130517 2000 QW_{168}	15.7	X	111.76286	264.08192	186.66432	6.63433	0.1117301	0.26365360	2.4086863	21	3 30.9	18.6
130518 2000 QN_{169}	16.5	X	218.07023	58.73838	245.54985	3.82981	0.2060721	0.30886425	2.1674926	21	1 13.8	20.0
130519 2000 QQ_{172}	15.7	X	164.58567	303.23595	273.18192	5.57556	0.0678655	0.29122218	2.2541687	21	11 19.9	18.8
130520 2000 QO_{175}	16.4	X	260.06973	174.09806	244.04088	5.32246	0.1159081	0.27862034	2.3216362	21	8 4.5	19.3
130521 2000 QV_{180}	15.5	X	262.45035	114.99774	268.80854	7.20736	0.1229045	0.26809177	2.3820291	21	6 20.5	18.6
130522 2000 QC_{182}	15.9	X	226.81922	4.92093	356.83331	1.94621	0.2278598	0.26478699	2.4018080	21	4 6.4	19.7
130523 2000 QX_{183}	17.0	X	332.52113	179.18070	125.93881	1.49976	0.2215726	0.27843754	2.3226522	21	5 29.9	18.7
130524 2000 QB_{189}	15.9	X	195.70996	189.79686	93.85701	5.84999	0.1597046	0.30414678	2.1898476	21	—	—
130525 2000 QX_{191}	16.1	X	195.60961	195.70662	66.25302	7.11491	0.1426501	0.30130172	2.2036112	21	—	—
130526 2000 QQ_{194}	16.4	X	173.94067	51.23373	0.39360	1.68951	0.1777637	0.26545980	2.3977480	21	4 23.4	20.2
130527 2000 QW_{198}	15.9	X	160.37179	52.60226	354.70070	6.80064	0.0881122	0.26525289	2.3989948	21	3 28.1	19.1
130528 2000 QY_{199}	15.9	X	198.69345	291.33152	145.82963	12.45297	0.1043377	0.27382448	2.3486657	21	6 21.5	19.5
130529 2000 QY_{200}	16.2	X	147.60069	168.80198	117.01960	3.68918	0.1650064	0.29786631	2.2205222	21	—	—
130530 2000 QK_{201}	15.8	X	277.46729	37.91031	17.80716	5.49421	0.1513024	0.28039620	2.3118233	21	8 25.6	18.3
130531 2000 QY_{201}	15.9	X	192.03261	51.09404	6.56345	4.67558	0.2194212	0.26884220	2.3775943	21	5 16.9	19.8
130532 2000 QB_{202}	16.6	X	312.44413	333.30716	19.14107	3.10303	0.1722950	0.27845889	2.3225335	21	7 14.3	18.9
130533 2000 QK_{204}	16.5	X	217.02354	192.57261	73.39836	4.19786	0.0993771	0.30301492	2.1952975	21	—	—
130534 2000 QX_{204}	16.8	X	252.75778	192.21351	179.40844	2.93157	0.2507512	0.27177601	2.3604527	21	5 10.2	20.5
130535 2000 QU_{207}	16.2	X	262.27075	26.68023	358.78904	2.68324	0.2602876	0.27370800	2.3493320	21	6 4.3	19.8
130536 2000 QV_{208}	16.2	X	223.39362	334.03616	83.36037	3.87361	0.1601984	0.27167829	2.3610187	21	6 17.4	19.6
130537 2000 QV_{210}	16.8	X	215.91559	347.44905	2.41718	3.43673	0.1660066	0.26465252	2.4026215	21	3 15.4	20.7
130538 2000 QC_{213}	16.3	X	17.40714	258.89893	140.76246	5.07649	0.1122073	0.29189707	2.2506928	21	—	—
130539 2000 QG_{213}	16.4	X	269.02903	344.29920	4.48865	7.47763	0.0866086	0.27222605	2.3578505	21	5 13.3	19.6
130540 2000 QJ_{213}	16.7	X	281.93931	11.91828	20.48155	3.67735	0.1822307	0.27777879	2.3263229	21	7 21.7	19.4
130541 2000 QJ_{215}	15.9	X	136.91714	70.03738	358.30104	6.62031	0.0847488	0.26353809	2.4093901	21	3 28.1	18.9
130542 2000 QZ_{215}	16.8	X	296.90481	345.01854	50.89088	4.13853	0.2465128	0.27905413	2.3192296	21	8 10.4	19.0
130543 2000 QH_{216}	16.7	X	182.58468	53.38072	13.38227	2.45601	0.1952106	0.26837528	2.3803512	21	5 20.9	20.6
130544 2000 QP_{221}	15.7	X	109.62535	75.79906	1.69219	7.11330	0.2421065	0.26127505	2.4232827	21	3 29.3	18.8
130545 2000 QK_{223}	16.6	X	98.80167	290.93226	40.59558	5.20860	0.1850897	0.29649953	2.2273410	21	—	—
130546 2000 QW_{227}	16.2	X	337.21734	110.89102	178.75928	9.93043	0.0867357	0.27351706	2.3504252	21	6 4.5	18.9
130547 2000 QX_{229}	16.3	X	136.44957	132.61133	144.48555	5.92435	0.0655069	0.29308491	2.2446075	21	—	—
130548 2000 QL_{230}	16.2	X	38.92042	313.96984	58.87766	6.03828	0.1108347	0.29044936	2.2581655	21	—	—
130549 2000 RT	16.4	X	290.59840	307.28247	111.81718	4.02012	0.1803024	0.28272164	2.2991291	21	9 17.3	18.5
130550 2000 RO_{1}	16.3	X	144.29109	325.81195	351.07051	5.82874	0.1494453	0.29870870	2.2163456	21	—	—
130551 2000 RV_{4}	15.9	X	84.31442	115.20502	178.09940	5.44677	0.1116835	0.28755558	2.2732900	21	12 3.3	19.0
130552 2000 RX_{13}	15.3	X	150.27767	235.58066	268.94516	9.16530	0.1263224	0.27660779	2.3328838	21	7 27.5	18.8
130553 2000 RV_{14}	15.7	X	237.75764	139.90609	229.90655	6.41051	0.1167857	0.27058305	2.3673856	21	5 2.9	19.1
130554 2000 RT_{18}	16.0	X	155.81049	2.27912	260.94429	5.67965	0.1758216	0.29575418	2.2310816	21	—	—
130555 2000 RR_{23}	16.0	X	76.78949	109.74511	204.35238	4.69052	0.1702840	0.29001025	2.2604444	21	12 26.8	19.3
130556 2000 RE_{30}	15.6	X	48.20423	52.59850	259.23576	5.83369	0.1276914	0.28565875	2.2833423	21	11 14.3	18.3
130557 2000 RB_{31}	15.2	X	343.43772	116.58030	252.07065	6.06828	0.1357634	0.28271695	2.2991545	21	10 17.8	17.2
130558 2000 RE_{31}	15.9	X	60.60373	67.64938	245.31136	5.20763	0.2008935	0.28803837	2.2707491	21	12 11.9	19.1
130559 2000 RJ_{31}	15.7	X	203.30269	203.15462	235.82199	6.10599	0.0988922	0.27235215	2.3571226	21	6 28.1	19.0
130560 2000 RL_{32}	15.7	X	35.90627	109.80232	213.55720	6.34733	0.0647040	0.28432501	2.2904774	21	11 3.8	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130561 2000 RW_{32}	16.2	X	2.61869	86.07615	264.43246	3.55883	0.1598421	0.28332276	2.2958759	21	11 1.6	18.3
130562 2000 RE_{33}	15.9	X	282.16445	65.04846	229.35250	6.78584	0.1136192	0.26606765	2.3940947	21	3 12.9	19.3
130563 2000 RE_{35}	15.5	X	0.07989	215.58230	198.39250	12.61848	0.1760240	0.24092488	2.5578886	21	—	—
130564 2000 RC_{38}	15.9	X	310.71310	222.20667	156.28759	2.16689	0.1958696	0.27904597	2.3192748	21	8 17.7	17.7
130565 2000 RH_{38}	16.2	X	75.33914	134.39645	164.89408	4.51414	0.1525198	0.28765438	2.2727695	21	12 5.3	19.4
130566 2000 RW_{38}	15.3	X	322.96211	186.78805	247.43744	8.76096	0.1053017	0.23414069	2.6070626	21	12 4.9	18.0
130567 2000 RV_{39}	16.0	X	105.49052	298.50995	5.57266	7.49732	0.2091512	0.29130586	2.2537370	21	—	—
130568 2000 RN_{41}	15.7	X	218.99137	33.87876	324.93564	10.75431	0.2097065	0.26522285	2.3991759	21	3 23.7	19.9
130569 2000 RD_{44}	15.4	X	235.70237	74.45034	296.03701	6.64885	0.1318892	0.26768196	2.3844597	21	4 28.1	19.0
130570 2000 RR_{45}	15.4	X	13.44464	215.25831	210.40707	5.64315	0.2722600	0.24250380	2.5467736	21	—	—
130571 2000 RJ_{46}	16.1	X	261.34257	7.73530	348.84884	5.87274	0.2423471	0.26955053	2.3734272	21	4 26.7	19.8
130572 2000 RF_{48}	15.7	X	279.70230	57.48271	301.08797	5.88396	0.1343106	0.27118591	2.3638757	21	6 5.4	18.6
130573 2000 RZ_{55}	16.9	X	171.67166	187.96080	194.18551	1.28319	0.1793872	0.26235262	2.4166427	21	3 15.7	20.8
130574 2000 RF_{60}	16.3	X	12.17564	172.68690	179.80269	6.34036	0.2027897	0.28475161	2.2881891	21	12 2.2	18.6
130575 2000 RV_{67}	15.9	X	279.10991	346.33423	40.23907	5.27840	0.1774939	0.27390386	2.3482119	21	7 9.3	18.8
130576 2000 RK_{68}	15.7	X	81.53184	241.96561	39.10407	5.95380	0.0871356	0.28540496	2.2846957	21	11 9.6	18.7
130577 2000 RK_{69}	15.7	X	207.45275	45.71924	38.15011	3.69638	0.1329313	0.27314256	2.3525731	21	7 8.6	19.1
130578 2000 RO_{69}	16.3	X	350.34256	346.44797	36.92865	4.40050	0.1480890	0.28525552	2.2854936	21	11 27.7	18.3
130579 2000 RX_{69}	16.2	X	343.83379	303.39260	23.98289	7.38529	0.1378818	0.27871066	2.3211346	21	8 17.5	18.2
130580 2000 RO_{71}	16.7	X	3.63069	214.96387	179.37270	5.15762	0.3068971	0.23833818	2.5763625	21	—	—
130581 2000 RQ_{71}	15.4	X	144.06786	148.13825	235.68173	1.06592	0.1749362	0.25626301	2.4547773	21	2 18.7	18.9
130582 2000 RH_{75}	15.7	X	176.41625	115.87670	303.95209	6.51914	0.0785503	0.26614648	2.3936220	21	4 29.9	19.2
130583 2000 RS_{75}	14.7	X	331.24921	111.53855	356.27132	12.03620	0.2522170	0.24053787	2.5606314	21	—	—
130584 2000 RA_{77}	15.9	X	319.22004	336.23134	21.41633	4.52661	0.2377443	0.27643490	2.3338564	21	7 27.3	17.6
130585 2000 RU_{77}	15.9	X	131.24349	265.74048	132.74838	3.13257	0.1891253	0.25539271	2.4603509	21	2 26.3	19.2
130586 2000 RG_{78}	16.7	X	30.37864	283.70547	67.84855	8.27769	0.1454108	0.28801915	2.2708501	21	12 18.3	19.3
130587 2000 RT_{80}	16.0	X	218.93468	39.41714	212.83293	6.65887	0.1445407	0.30141947	2.2030373	21	—	—
130588 2000 RD_{83}	12.6	X	269.78489	10.80731	356.37208	31.91300	0.0522966	0.08264617	5.2198045	21	6 22.3	19.9
130589 2000 RD_{85}	16.4	X	289.20833	214.33239	150.74520	7.58545	0.1519487	0.27658673	2.3330022	21	6 26.2	19.2
130590 2000 RG_{87}	17.1	X	2.43537	104.38370	215.58665	1.32927	0.2394749	0.28127020	2.3070317	21	9 23.5	18.2
130591 2000 RM_{87}	17.1	X	85.22313	98.37902	186.72157	1.65290	0.2200741	0.28902016	2.2656038	21	12 2.9	20.4
130592 2000 RT_{87}	12.5	X	169.83953	100.75398	346.15472	19.33409	0.0155578	0.08133740	5.2756488	21	6 2.2	19.8
130593 2000 RX_{88}	16.5	X	165.35582	333.16782	273.77948	3.98588	0.1282270	0.29402673	2.2398117	21	12 28.1	19.7
130594 2000 RA_{90}	16.3	X	160.00464	45.77474	229.10714	6.99679	0.1386290	0.29733957	2.2231439	21	—	—
130595 2000 RP_{90}	15.6	X	48.28748	213.29198	232.50258	8.83267	0.1497960	0.25192756	2.4828601	21	—	—
130596 2000 RV_{91}	16.0	X	209.21545	223.91084	196.90787	10.10045	0.1512326	0.27013844	2.3699824	21	6 8.7	19.8
130597 2000 RT_{93}	16.1	X	329.72532	5.05950	50.20345	4.93295	0.1542129	0.28642638	2.2792609	21	12 6.3	17.8
130598 2000 RH_{94}	16.0	X	36.65081	285.42289	6.36294	8.33845	0.2178713	0.28200841	2.3030039	21	10 14.1	18.3
130599 2000 RF_{95}	16.4	X	356.15714	248.31562	153.46352	5.74067	0.2530995	0.23907875	2.5710394	21	—	—
130600 2000 RU_{96}	14.6	X	5.05732	69.92258	300.16290	23.90629	0.0764208	0.28664217	2.2781169	21	11 22.1	17.7
130601 2000 SD	14.1	X	295.16347	105.19290	325.62630	28.85651	0.3122600	0.23030516	2.6359284	21	9 1.4	17.3
130602 2000 SE_{4}	16.5	X	85.07184	284.85259	43.35850	3.22782	0.2002778	0.29216810	2.2493007	21	—	—
130603 2000 SE_{7}	15.7	X	1.47455	295.82920	113.36428	6.41538	0.2512689	0.23950363	2.5679978	21	—	—
130604 2000 SH_{10}	15.4	X	156.34167	204.29946	212.57132	7.07615	0.1103585	0.26162687	2.4211098	21	4 7.8	18.7
130605 2000 SH_{14}	15.9	X	297.42416	212.14296	218.69568	11.82115	0.1579657	0.28505101	2.2865866	21	10 20.2	17.9
130606 2000 SV_{14}	15.4	X	126.52259	55.77532	71.65864	13.13827	0.1311722	0.26870677	2.3783932	21	6 9.7	18.7
130607 2000 SY_{14}	16.1	X	173.83067	2.67049	245.71436	3.38180	0.1289495	0.29600677	2.2298122	21	—	—
130608 2000 SV_{17}	16.2	X	112.22227	277.07595	327.90740	6.17970	0.0789217	0.28490838	2.2873497	21	10 25.4	19.4
130609 2000 SE_{19}	13.8	X	311.59716	53.30505	210.76343	14.45847	0.1228124	0.12497447	3.9620672	21	3 29.6	19.2
130610 2000 SK_{22}	16.7	X	159.45012	327.05343	80.60134	2.45438	0.1726040	0.26261262	2.4150474	21	4 6.2	20.3
130611 2000 SP_{23}	16.4	X	130.79779	65.72015	21.91630	2.54229	0.1687404	0.26347225	2.4097914	21	4 26.5	19.6
130612 2000 SQ_{24}	16.2	X	144.80792	276.45177	45.35068	5.08187	0.1815089	0.30095117	2.2053221	21	—	—
130613 2000 SG_{29}	16.2	X	66.88503	15.87795	213.94264	4.68779	0.1227727	0.27751881	2.3277756	21	8 12.9	19.1
130614 2000 SW_{29}	16.0	X	92.49976	63.01490	29.55051	1.98009	0.1551284	0.25990386	2.4317984	21	3 13.9	18.7
130615 2000 SX_{33}	15.9	X	164.39800	275.67895	141.40028	5.43662	0.0983673	0.26498815	2.4005923	21	4 18.9	19.3
130616 2000 SX_{34}	16.6	X	357.99483	318.69106	66.39488	1.16516	0.1053200	0.28708990	2.2757477	21	12 9.6	18.9
130617 2000 SQ_{36}	16.3	X	182.58077	331.88467	109.58909	5.08013	0.2218407	0.26839242	2.3802499	21	6 10.0	20.3
130618 2000 SU_{36}	16.4	X	204.50267	217.16010	172.07469	3.90755	0.1051142	0.26718302	2.3874273	21	4 24.8	19.9
130619 2000 SY_{36}	16.0	X	5.01804	40.52910	21.50603	4.97299	0.1369499	0.24421864	2.5348378	21	—	—
130620 2000 SJ_{38}	16.8	X	314.24195	215.54933	155.75502	3.14623	0.1207452	0.27929433	2.3178997	21	8 24.5	18.7
130621 2000 SV_{39}	16.7	X	140.80211	324.31942	90.52104	3.29159	0.1916302	0.25983358	2.4322368	21	3 30.4	20.2
130622 2000 SM_{41}	15.9	X	187.48234	357.96390	42.39950	6.87135	0.1157577	0.26549660	2.3975264	21	4 21.3	19.4
130623 2000 SP_{41}	16.2	X	287.48135	272.18699	52.89158	6.26226	0.1159412	0.27060630	2.3672499	21	5 3.4	19.2
130624 2000 SC_{43}	16.2	X	292.26596	220.35855	164.78172	5.99108	0.1229551	0.27702239	2.3305556	21	8 4.5	18.6
130625 2000 SJ_{44}	15.7	X	90.19926	267.25357	25.35416	23.56054	0.2624305	0.28890829	2.2661886	21	12 14.8	19.9
130626 2000 SO_{49}	16.5	X	100.36588	90.57651	235.75304	3.11299	0.0394923	0.29425003	2.2386784	21	—	—
130627 2000 SB_{53}	15.7	X	341.39005	339.71576	35.78923	7.50345	0.1478268	0.28370703	2.2938023	21	10 28.1	17.4
130628 2000 SG_{54}	16.6	X	115.00074	245.18916	195.66434	4.88674	0.1490319	0.26094286	2.4253389	21	3 27.1	19.5
130629 2000 SX_{55}	16.7	X	173.96978	182.60883	205.35182	2.45140	0.1870944	0.26259594	2.4151497	21	3 25.2	20.6
130630 2000 SB_{57}	16.6	X	180.17416	239.08159	202.23437	3.88002	0.1240127	0.26963770	2.3729157	21	6 6.5	20.1
130631 2000 SD_{57}	16.2	X	57.19570	63.26334	189.12317	6.21782	0.0887117	0.27882682	2.3204899	21	8 26.2	18.8
130632 2000 SN_{57}	16.3	X	232.55747	309.53637	182.79424	7.12599	0.0289394	0.28473491	2.2882786	21	10 29.4	19.0
130633 2000 SA_{59}	15.9	X	93.65648	218.11639	211.99453	3.28340	0.1345795	0.25663059	2.4524327	21	2 7.8	18.6
130634 2000 SP_{61}	16.2	X	116.25230	244.05730	24.50347	3.43682	0.1525952	0.28976445	2.2617225	21	12 6.2	19.6
130635 2000 SB_{63}	16.3	X	309.81378	53.19907	271.63393	1.44365	0.1545867	0.27417303	2.3466747	21	5 29.1	18.7
130636 2000 SC_{64}	16.1	X	282.23581	310.32910	31.48274	7.67649	0.1313088	0.27182959	2.3601425	21	5 15.4	19.2
130637 2000 SQ_{64}	16.2	X	175.40582	301.47876	108.48416	3.55560	0.1380825	0.26461866	2.4028265	21	4 23.1	19.9
130638 2000 SC_{66}	16.6	X	242.74160	202.09699	178.13789	3.81423	0.1414159	0.27070395	2.3666806	21	5 21.5	20.0
130639 2000 SQ_{66}	16.2	X	83.45217	129.94546	194.76214	4.18269	0.1297283	0.29136027	2.2534564	21	—	—
130640 2000 SN_{67}	15.7	X	122.73334	103.38842	15.65315	4.66429	0.0871588	0.26680490	2.3896824	21	5 18.2	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130641 2000 SP_{68}	16.3	X	217.14616	3.37975	19.28217	4.71176	0.1420531	0.26742252	2.3860016	21	4 26.6	19.8
130642 2000 SE_{70}	16.6	X	317.78351	312.11139	23.73212	2.96555	0.1662696	0.27601715	2.3362107	21	6 28.3	18.7
130643 2000 SD_{71}	16.7	X	88.07086	176.95594	146.42275	3.22227	0.1938773	0.29216503	2.2493165	21	—	—
130644 2000 SU_{71}	15.7	X	34.56394	7.95737	44.49480	1.72904	0.0796832	0.24651484	2.5190725	21	—	—
130645 2000 SC_{73}	16.4	X	160.74702	293.18242	96.97253	2.47876	0.1888316	0.25995365	2.4314878	21	3 17.9	20.1
130646 2000 SW_{74}	16.5	X	318.48077	265.84166	96.59455	2.76002	0.1381175	0.27787113	2.3258075	21	8 17.6	18.4
130647 2000 SG_{75}	15.8	X	276.85999	287.74938	82.67499	3.36837	0.2255606	0.27355915	2.3501841	21	6 5.0	18.7
130648 2000 SW_{76}	12.9	X	324.92569	13.65842	309.34550	3.94189	0.0602657	0.08439942	5.1472637	21	7 6.2	19.4
130649 2000 SR_{81}	15.5	X	85.21100	105.64216	47.05803	3.22075	0.1114013	0.26600150	2.3944917	21	5 18.9	18.2
130650 2000 SB_{83}	16.5	X	36.09263	30.25964	198.36457	4.14501	0.0767583	0.27283366	2.3543485	21	6 15.6	18.9
130651 2000 SA_{86}	15.7	X	294.87315	259.06811	178.23972	12.72763	0.2729222	0.23290554	2.6162716	21	9 27.4	18.2
130652 2000 SG_{86}	15.8	X	247.54820	261.05363	172.96056	12.50077	0.2446561	0.22662108	2.6644190	21	7 23.6	20.2
130653 2000 SO_{88}	16.1	X	334.66674	298.80149	50.24464	6.56733	0.1524377	0.27849794	2.3223164	21	9 2.1	18.1
130654 2000 SN_{94}	16.0	X	288.11064	202.17293	239.62781	4.85786	0.0633816	0.28498672	2.2869305	21	11 1.1	18.6
130655 2000 ST_{95}	16.5	X	113.79694	350.39323	284.86567	3.57967	0.1039121	0.28987974	2.2611227	21	12 10.8	19.8
130656 2000 SD_{97}	16.0	X	38.47116	299.98726	312.57259	5.98140	0.1051855	0.27657127	2.3330892	21	7 31.2	18.3
130657 2000 SH_{97}	16.0	X	152.21163	237.70084	248.97462	4.08859	0.0570975	0.27276660	2.3547343	21	7 3.0	19.2
130658 2000 SQ_{98}	16.3	X	60.38191	10.22758	314.02243	3.22782	0.0659161	0.28783230	2.2718328	21	12 8.8	19.1
130659 2000 SY_{98}	16.5	X	182.33271	194.47637	242.33180	4.35248	0.1313767	0.26885205	2.3775363	21	6 2.5	20.1
130660 2000 SR_{101}	17.0	X	195.97059	34.16087	354.21509	3.12841	0.1284785	0.26585114	2.3953944	21	4 12.9	20.7
130661 2000 SG_{103}	16.5	X	190.39166	68.28227	341.29201	0.63677	0.1840174	0.26626187	2.3929304	21	5 6.1	20.1
130662 2000 SM_{104}	16.0	X	213.67711	156.14846	345.56102	0.61860	0.0518917	0.28196937	2.3032165	21	10 11.3	19.0
130663 2000 SY_{104}	16.1	X	184.60696	261.34620	198.91870	4.22833	0.1464272	0.27099035	2.3650128	21	7 5.5	19.7
130664 2000 SZ_{106}	16.3	X	187.74463	158.05537	230.38265	1.09524	0.2170776	0.26363328	2.4088101	21	4 7.9	20.2
130665 2000 SD_{107}	16.3	X	317.44374	168.86980	199.35775	3.96155	0.1319624	0.27867991	2.3213054	21	8 22.9	18.6
130666 2000 SH_{109}	16.5	X	219.45146	67.22252	343.59182	0.72779	0.1584115	0.27004940	2.3705034	21	6 4.7	20.2
130667 2000 ST_{109}	16.4	X	199.77666	87.04763	299.70705	1.20491	0.2135788	0.26496793	2.4007144	21	4 15.3	20.5
130668 2000 SE_{111}	16.2	X	268.52109	341.83450	30.37828	3.24991	0.1750626	0.27263849	2.3554719	21	6 3.9	19.5
130669 2000 SF_{111}	16.0	X	145.49867	44.57892	27.01880	6.68582	0.1171758	0.26263085	2.4149356	21	4 16.5	19.1
130670 2000 ST_{111}	16.1	X	220.41504	312.81650	19.25030	2.66604	0.1962474	0.26255954	2.4153728	21	2 25.9	19.9
130671 2000 SH_{113}	16.0	X	250.53892	213.16409	184.48667	5.77765	0.0961958	0.27270744	2.3550749	21	6 27.9	19.1
130672 2000 SC_{114}	16.6	X	156.12924	305.72332	31.46242	3.36811	0.2101296	0.30204410	2.1999990	21	—	—
130673 2000 SU_{114}	16.6	X	359.02136	264.05921	179.04967	3.86644	0.2558338	0.24297137	2.5435053	21	—	—
130674 2000 SB_{116}	15.6	X	110.44717	1.53905	37.04980	7.12183	0.1153912	0.25399216	2.4693871	21	1 21.9	18.7
130675 2000 SF_{117}	16.1	X	175.86742	324.56213	76.05383	3.15027	0.1768922	0.26269027	2.4145714	21	4 13.1	19.9
130676 2000 SH_{117}	16.5	X	281.83537	205.77154	142.90374	3.15088	0.1868444	0.27188624	2.3598147	21	5 18.5	19.5
130677 2000 ST_{117}	16.2	X	272.09065	299.60016	49.30622	5.52659	0.1556126	0.27033859	2.3688125	21	5 10.2	19.3
130678 2000 SS_{118}	15.8	X	293.90414	316.47538	47.13448	3.57520	0.1985820	0.27485253	2.3428054	21	6 22.9	18.5
130679 2000 SD_{119}	16.4	X	184.59912	15.75875	38.48667	5.07186	0.1338704	0.26524934	2.3990161	21	5 5.9	20.1
130680 2000 SK_{119}	15.8	X	242.15461	295.61512	34.83107	6.98921	0.1373240	0.26412072	2.4058455	21	3 19.3	19.4
130681 2000 SK_{121}	15.9	X	208.76466	345.60405	64.64655	6.63037	0.1099819	0.26792808	2.3829992	21	5 26.2	19.1
130682 2000 SM_{122}	15.5	X	217.79896	341.60205	42.62427	7.59238	0.1244766	0.26632087	2.3925770	21	4 30.9	19.0
130683 2000 SV_{123}	15.7	X	314.30437	28.98119	38.17772	15.87840	0.2096809	0.23483991	2.6018851	21	11 2.5	17.6
130684 2000 SH_{126}	16.5	X	138.61452	229.02694	180.82050	6.52371	0.1511766	0.25917707	2.4363424	21	3 15.0	20.0
130685 2000 SP_{127}	15.5	X	268.01324	199.62427	141.30716	6.06097	0.2546932	0.26860038	2.3790211	21	4 16.5	19.2
130686 2000 SR_{128}	16.3	X	324.38201	196.39347	136.85580	6.54941	0.1265856	0.27434730	2.3456808	21	7 12.7	18.6
130687 2000 SZ_{131}	12.3	X	283.58247	69.38161	286.41293	19.05342	0.0934692	0.08281655	5.2126428	21	6 19.7	19.2
130688 2000 SR_{136}	16.0	X	140.25979	87.73809	333.84979	7.09152	0.0843144	0.26175668	2.4203093	21	3 21.9	19.3
130689 2000 SM_{138}	15.5	X	2.14944	89.56568	237.48333	3.98676	0.1866587	0.28096656	2.3086936	21	9 25.8	17.2
130690 2000 SO_{140}	15.8	X	97.58881	86.22693	299.06976	1.81633	0.1881296	0.25119473	2.4876868	21	—	—
130691 2000 SW_{145}	15.8	X	183.83061	60.65452	14.28930	6.54589	0.0812850	0.26823309	2.3811924	21	5 30.6	19.2
130692 2000 SK_{148}	16.6	X	244.17366	21.35714	323.04435	2.03968	0.1966460	0.26655528	2.3911740	21	3 31.5	20.4
130693 2000 SB_{149}	16.0	X	205.79904	228.24717	197.50040	3.89192	0.1386388	0.26921910	2.3753748	21	6 11.9	19.6
130694 2000 SO_{149}	16.5	X	146.54847	46.22368	31.24247	2.88215	0.1622072	0.26239860	2.4163604	21	4 29.5	20.0
130695 2000 SJ_{150}	16.6	X	276.81186	333.10933	7.92730	3.08192	0.1710050	0.27021071	2.3695598	21	5 2.3	19.9
130696 2000 SK_{152}	15.8	X	337.85072	224.01144	190.81650	5.23815	0.2204007	0.23705413	2.5856577	21	12 12.4	17.9
130697 2000 SP_{153}	16.8	X	203.17522	351.04146	46.64875	3.13370	0.2210555	0.26573047	2.3961195	21	5 2.4	20.8
130698 2000 SW_{153}	16.9	X	61.59849	285.77967	71.90159	1.18100	0.1777099	0.29072463	2.2567399	21	—	—
130699 2000 SG_{156}	16.2	X	284.41406	283.29854	15.17540	6.30784	0.1590625	0.26632691	2.3925408	21	3 19.2	19.4
130700 2000 SA_{160}	15.0	X	153.27629	259.38871	216.75984	21.82883	0.2314734	0.26890063	2.3772499	21	6 26.4	19.4
130701 2000 SG_{168}	15.9	X	211.79289	116.60420	291.68835	6.37317	0.0989235	0.26866534	2.3786376	21	5 26.5	19.3
130702 2000 ST_{169}	16.3	X	316.19671	330.02935	349.46050	2.53580	0.2174104	0.27354326	2.3502751	21	5 19.9	18.6
130703 2000 SH_{170}	16.1	X	250.64753	349.41341	16.90652	6.67739	0.1144475	0.26840380	2.3801826	21	5 11.9	19.5
130704 2000 SH_{176}	16.1	X	271.25297	148.95843	244.71081	6.15977	0.1775256	0.27411960	2.3469797	21	7 6.9	19.1
130705 2000 SF_{178}	15.5	X	140.36590	236.18200	221.50227	24.57107	0.1673215	0.26274112	2.4142599	21	5 20.5	19.2
130706 2000 SP_{179}	15.6	X	335.90179	87.34045	20.68829	12.26797	0.2251912	0.24122000	2.5558018	21	—	—
130707 2000 ST_{179}	15.5	X	316.83725	80.88853	344.07135	3.82312	0.2693555	0.23392784	2.6086438	21	10 28.9	17.4
130708 2000 SE_{186}	16.5	X	132.56519	73.30904	193.42839	3.16804	0.1219821	0.29055098	2.2576389	21	12 19.8	19.9
130709 2000 SR_{186}	15.6	X	150.06428	234.80648	219.24747	22.90670	0.2135176	0.26690618	2.3890778	21	5 28.3	19.6
130710 2000 SN_{187}	16.0	X	127.26183	18.78323	135.52253	1.60163	0.0230933	0.27248847	2.3563364	21	7 5.9	18.7
130711 2000 SR_{191}	16.1	X	68.50539	208.28848	306.73775	1.38811	0.1478848	0.26518979	2.3993753	21	5 1.1	18.6
130712 2000 SP_{193}	16.7	X	210.98575	121.20876	322.15532	1.53938	0.1547448	0.27418960	2.3465802	21	7 10.0	20.2
130713 2000 SQ_{195}	16.6	X	95.10992	88.50668	200.15791	1.79989	0.0519081	0.28876471	2.2669397	21	12 3.8	19.3
130714 2000 SR_{198}	16.0	X	116.94952	186.35856	336.65942	1.80464	0.1399752	0.27250167	2.3562603	21	7 19.4	19.2
130715 2000 SV_{203}	16.3	X	106.89539	243.63553	33.59220	4.54788	0.1449368	0.28873173	2.2671124	21	12 7.6	19.7
130716 2000 SL_{206}	16.7	X	94.29161	275.23516	40.81501	3.89358	0.1287268	0.29030500	2.2589140	21	—	—
130717 2000 SN_{207}	16.4	X	170.44542	233.03372	185.85782	5.25839	0.0975983	0.26472805	2.4021645	21	4 26.9	19.7
130718 2000 SM_{209}	15.9	X	337.24101	182.56696	134.78281	7.84482	0.1047645	0.27590195	2.3368609	21	7 14.9	18.3
130719 2000 SZ_{210}	16.0	X	127.02077	284.16856	149.59539	9.19477	0.2268324	0.25939778	2.4349603	21	4 14.9	19.7
130720 2000 SQ_{212}	16.3	X	305.19294	309.42930	104.46182	7.41148	0.0991446	0.28144649	2.3060683	21	10 20.4	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130721 2000 SB_{213}	16.0	X	22.17865	162.25914	112.50158	7.00619	0.1586181	0.27757018	2.3274883	21	8 13.4	18.0
130722 2000 SS_{214}	16.1	X	127.24973	166.22287	12.50735	7.55061	0.0571610	0.27661536	2.3328413	21	8 17.3	19.2
130723 2000 SO_{216}	16.2	X	188.41368	156.66805	135.69419	6.76657	0.1646426	0.30061097	2.2069856	21	—	—
130724 2000 SH_{218}	15.7	X	243.93177	247.97209	125.24699	6.45265	0.2206060	0.26902967	2.3764897	21	5 8.5	19.5
130725 2000 SJ_{218}	16.3	X	72.04095	209.29959	98.78634	7.80255	0.1336553	0.28642548	2.2792657	21	12 10.6	19.5
130726 2000 SE_{223}	16.4	X	265.20625	153.11110	194.76043	6.73635	0.0489885	0.26953707	2.3735062	21	5 16.2	19.4
130727 2000 SM_{223}	16.3	X	117.09172	92.47658	9.63669	2.31713	0.1464462	0.26233974	2.4167218	21	4 26.9	19.4
130728 2000 SJ_{224}	16.2	X	314.09868	112.77220	160.45653	1.24367	0.1860116	0.26766629	2.3845527	21	3 17.4	18.8
130729 2000 SK_{227}	16.3	X	319.02206	282.65137	171.41859	3.82371	0.2600667	0.23837594	2.5760904	21	12 27.2	18.0
130730 2000 SO_{227}	16.1	X	235.07495	264.87212	127.51274	6.97219	0.1196312	0.26860936	2.3789681	21	6 1.1	19.6
130731 2000 SF_{230}	16.5	X	241.19275	344.42266	29.72193	4.14126	0.2148895	0.26865102	2.3787222	21	5 4.7	20.4
130732 2000 SQ_{230}	16.6	X	238.45771	18.17650	29.88947	2.89271	0.1987672	0.27106043	2.3646052	21	6 17.0	20.1
130733 2000 SU_{231}	15.6	X	126.11031	190.37287	5.09179	22.24867	0.1709463	0.27923610	2.3182219	21	9 17.6	19.2
130734 2000 SW_{233}	15.5	X	323.35049	359.89411	86.71495	7.48088	0.2880463	0.23957946	2.5674559	21	12 29.5	16.9
130735 2000 SC_{236}	15.6	X	55.47873	16.11277	100.77777	5.97596	0.1405506	0.25617409	2.4553453	21	2 11.9	17.9
130736 2000 ST_{241}	15.7	X	285.66235	352.51337	17.73926	6.93800	0.1246383	0.27696353	2.3308858	21	7 4.1	18.6
130737 2000 SU_{241}	16.4	X	245.88151	341.89809	60.51784	5.35393	0.1367791	0.27535772	2.3399391	21	6 23.9	19.7
130738 2000 SJ_{246}	15.9	X	110.27195	80.39730	22.75957	11.30501	0.1510795	0.26311311	2.4119838	21	4 19.9	19.0
130739 2000 SK_{247}	16.0	X	153.07942	290.41418	160.78192	12.58747	0.0371072	0.26837739	2.3803387	21	5 17.4	19.4
130740 2000 SH_{251}	16.4	X	124.68368	165.43430	126.52883	4.40941	0.1654088	0.29340051	2.2429976	21	—	—
130741 2000 SZ_{253}	16.8	X	138.56829	280.29491	45.25160	4.81126	0.1482707	0.29876009	2.2160914	21	—	—
130742 2000 SA_{256}	15.6	X	105.75859	127.91893	45.93851	7.40623	0.0663617	0.27170602	2.3608580	21	7 11.6	18.7
130743 2000 SQ_{256}	15.5	X	198.20352	89.51426	81.42714	6.85683	0.1924166	0.28188611	2.3036700	21	10 21.4	19.1
130744 2000 SH_{259}	16.6	X	20.66684	78.21718	284.16301	1.77093	0.1361658	0.28568898	2.2831813	21	12 17.7	19.1
130745 2000 ST_{259}	15.9	X	322.98921	237.98801	78.58233	7.11544	0.1358597	0.27307017	2.3529889	21	6 12.3	18.2
130746 2000 SF_{260}	16.5	X	268.37044	340.65704	28.32915	2.05681	0.1565309	0.27124881	2.3635103	21	6 2.0	19.7
130747 2000 SV_{260}	16.3	X	158.43697	289.22807	174.84948	6.21530	0.1174792	0.26831290	2.3807202	21	6 13.7	19.9
130748 2000 ST_{264}	16.4	X	144.76415	219.36301	179.14622	6.14167	0.1179098	0.25935183	2.4352479	21	3 2.8	19.8
130749 2000 SP_{265}	16.2	X	97.36968	6.93985	65.10759	6.76416	0.1281013	0.25620644	2.4551386	21	2 20.0	19.1
130750 2000 SV_{267}	16.2	X	17.11115	223.74739	102.62786	2.78662	0.1424402	0.28152372	2.3056465	21	10 22.4	18.5
130751 2000 SH_{274}	16.3	X	282.91565	166.26647	184.46407	5.74643	0.1459540	0.27118779	2.3638648	21	5 29.2	19.3
130752 2000 SP_{274}	16.2	X	71.91034	295.78912	44.55873	5.14315	0.1601575	0.28985454	2.2612538	21	—	—
130753 2000 SA_{275}	16.2	X	214.77536	193.83356	183.04950	6.02849	0.1218514	0.26455989	2.4031823	21	4 19.3	19.7
130754 2000 SV_{275}	16.4	X	289.49051	213.57949	182.28296	4.93857	0.2242167	0.27596540	2.3365027	21	7 28.7	19.0
130755 2000 SX_{275}	15.5	X	289.65912	143.62871	191.11948	10.46021	0.2365055	0.27044831	2.3681718	21	5 2.5	18.7
130756 2000 SB_{276}	16.0	X	344.63260	261.31034	38.83317	7.01394	0.1359247	0.27353700	2.3503110	21	6 30.2	18.1
130757 2000 SL_{277}	16.2	X	247.52987	280.44682	87.40038	2.71487	0.2999274	0.26823059	2.3812071	21	4 27.7	20.1
130758 2000 SM_{277}	15.0	X	52.92805	328.00625	48.02340	14.31378	0.1747354	0.24179184	2.5517706	21	—	—
130759 2000 SX_{278}	16.2	X	246.66399	212.58787	162.99748	2.42300	0.2351284	0.26825226	2.3810789	21	5 11.2	20.0
130760 2000 SD_{279}	14.6	X	227.19890	327.25512	30.44025	14.26650	0.1136730	0.26331862	2.4107287	21	4 8.9	18.1
130761 2000 SW_{281}	16.1	X	197.56339	223.11127	243.14574	6.50867	0.0565313	0.27635288	2.3343182	21	7 29.7	19.3
130762 2000 SV_{285}	16.1	X	91.52516	83.66526	19.19589	6.94480	0.0814337	0.26175864	2.4202972	21	3 16.1	19.0
130763 2000 SV_{288}	16.5	X	215.95287	38.87361	225.10999	7.40427	0.1411172	0.30209125	2.1997701	21	—	—
130764 2000 SM_{298}	16.1	X	104.59233	158.14291	268.48038	4.85845	0.1016915	0.25737201	2.4477206	21	2 13.3	19.2
130765 2000 SX_{299}	16.0	X	82.76652	326.74778	293.92871	4.31667	0.2439254	0.28450699	2.2895006	21	10 30.6	19.6
130766 2000 SJ_{301}	15.9	X	93.45086	239.99730	250.31854	3.76970	0.0751364	0.26369216	2.4084515	21	4 22.2	18.8
130767 2000 SR_{307}	15.9	X	52.80605	63.38827	263.18134	5.90774	0.1398026	0.28645301	2.2791197	21	12 12.8	18.6
130768 2000 SV_{308}	15.8	X	70.34862	10.02125	267.10181	6.38954	0.1282351	0.28224929	2.3016935	21	10 24.5	18.8
130769 2000 SA_{314}	15.1	X	312.54575	107.31736	252.95710	12.32702	0.1596556	0.27650565	2.3334583	21	7 23.9	17.7
130770 2000 SS_{321}	16.5	X	125.48114	255.24246	205.21607	0.53795	0.1499834	0.26507745	2.4000531	21	5 5.7	19.9
130771 2000 SU_{324}	16.5	X	140.15829	38.61961	194.81716	22.30382	0.1191203	0.28574916	2.2828607	21	11 16.0	20.1
130772 2000 SD_{326}	16.1	X	257.35996	238.89505	12.91054	10.09691	0.1079578	0.25630883	2.4544847	21	—	—
130773 2000 SH_{326}	16.1	X	45.09168	184.83643	14.38509	7.24721	0.0500438	0.26762867	2.3847762	21	5 12.4	18.9
130774 2000 SX_{329}	16.6	X	160.48872	24.79359	68.74951	3.20416	0.1624608	0.26555520	2.3971737	21	6 3.7	20.4
130775 2000 SB_{335}	16.6	X	183.40366	3.46258	80.51595	4.71751	0.1092113	0.27036275	2.3686714	21	6 12.9	20.1
130776 2000 SB_{348}	15.5	X	165.20532	277.03920	107.11988	15.62773	0.1775495	0.25904578	2.4371656	21	3 19.5	19.6
130777 2000 SA_{364}	16.3	X	149.91314	177.49756	105.93601	7.66690	0.1284502	0.29734828	2.2231005	21	—	—
130778 2000 SX_{369}	15.8	X	166.43725	337.65943	88.61504	7.18102	0.0973778	0.26668716	2.3903857	21	5 3.6	19.3
130779 2000 TQ_{1}	15.9	X	326.83799	39.09759	45.25533	12.15485	0.1609695	0.23717663	2.5847673	21	12 28.0	18.6
130780 2000 TH_{3}	16.3	X	117.21838	350.30361	165.98348	6.49288	0.0646055	0.27308700	2.3528922	21	6 30.2	19.4
130781 2000 TF_{4}	16.6	X	162.32999	82.79829	15.95594	1.42836	0.1505955	0.26880543	2.3778111	21	6 11.7	20.2
130782 2000 TH_{6}	16.4	X	73.46182	193.78627	304.28799	0.71048	0.1316067	0.26252539	2.4155823	21	4 12.3	19.0
130783 2000 TD_{11}	16.4	X	354.93063	76.65274	178.49980	4.58453	0.1122994	0.26976874	2.3721472	21	5 12.3	18.7
130784 2000 TF_{11}	16.5	X	172.71790	223.43592	36.83486	4.04845	0.1392842	0.29434892	2.2381770	21	—	—
130785 2000 TM_{12}	16.0	X	227.95150	307.76226	115.07169	7.15517	0.1065016	0.27205906	2.3588152	21	7 4.3	19.4
130786 2000 TH_{16}	16.2	X	314.24006	276.61741	180.36429	4.52907	0.2918056	0.23775160	2.5805983	21	12 16.6	17.7
130787 2000 TE_{17}	16.7	X	358.82510	71.12177	28.24342	7.21280	0.2324622	0.24424224	2.5346745	21	—	—
130788 2000 TY_{18}	16.3	X	263.20953	274.82992	207.96943	7.38854	0.2522246	0.23384743	2.6092417	21	10 13.5	19.5
130789 2000 TT_{19}	16.0	X	20.15822	198.96433	127.35073	7.49210	0.1332539	0.28329824	2.2960084	21	10 28.8	18.5
130790 2000 TW_{20}	16.6	X	168.45842	192.92841	103.18035	6.66698	0.1938102	0.30033864	2.2083195	21	—	—
130791 2000 TQ_{26}	15.8	X	82.07289	75.88534	51.04691	8.32234	0.1644872	0.26092759	2.4254335	21	4 18.5	18.4
130792 2000 TW_{27}	15.5	X	239.56570	296.01115	204.42207	29.18063	0.3363640	0.23131541	2.6282480	21	9 28.1	20.0
130793 2000 TL_{31}	16.6	X	168.79476	135.39990	49.27652	7.02246	0.0946073	0.28278855	2.2987664	21	10 14.2	19.8
130794 2000 TH_{34}	16.0	X	98.57196	76.72005	44.68984	8.18661	0.1276735	0.26208669	2.4182771	21	4 27.5	18.8
130795 2000 TS_{38}	16.1	X	107.08702	167.32458	121.36780	7.83597	0.1281257	0.29173980	2.2515016	21	12 22.8	19.3
130796 2000 TQ_{39}	15.8	X	304.54828	292.43834	90.46107	7.56522	0.1159517	0.27980892	2.3150569	21	8 29.2	18.2
130797 2000 TW_{39}	15.8	X	258.36318	299.36900	112.70415	7.34897	0.1461381	0.27712503	2.3299801	21	7 22.1	18.8
130798 2000 TQ_{41}	16.5	X	128.10942	187.28653	79.55164	6.46342	0.1052887	0.29103826	2.2551183	21	12 15.3	19.6
130799 2000 TL_{43}	16.2	X	324.05558	342.97324	58.75584	8.26357	0.1110953	0.28374625	2.2935909	21	11 3.4	18.1
130800 2000 TT_{45}	16.2	X	280.61482	357.77504	79.68624	7.93361	0.1110326	0.28235362	2.3011264	21	10 11.7	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130801 2000 TO_{49}	15.8	X	355.53516	332.91674	120.79035	8.55023	0.1546062	0.24476041	2.5310959	21	—	—
130802 2000 TX_{51}	15.9	X	113.28774	296.16478	122.15605	9.15580	0.1434854	0.25563348	2.4588058	21	2 25.2	19.0
130803 2000 TS_{52}	16.5	X	358.38464	64.31652	213.26357	3.88584	0.0815011	0.27239175	2.3568942	21	6 23.4	18.9
130804 2000 TE_{55}	15.6	X	45.96037	316.46499	209.44956	10.32215	0.2006539	0.25990356	2.4318002	21	4 11.4	17.5
130805 2000 TU_{62}	15.6	X	349.33302	38.22959	60.86845	8.31215	0.1514754	0.24368474	2.5385389	21	—	—
130806 2000 TB_{66}	15.8	X	67.37645	186.18995	23.46234	7.40974	0.0769815	0.27085869	2.3657791	21	7 10.2	18.7
130807 2000 TY_{67}	15.9	X	258.76148	146.94088	252.29099	2.92739	0.1091779	0.27348817	2.3505907	21	7 9.2	18.9
130808 2000 UU	16.4	X	13.59711	157.25501	220.05570	4.06724	0.1705000	0.28520820	2.2857464	21	—	—
130809 2000 UJ_{5}	16.1	X	128.70196	87.96654	233.60296	4.85311	0.2354996	0.29441995	2.2378170	21	—	—
130810 2000 UN_{5}	16.4	X	91.14493	141.92665	195.62804	5.72280	0.1551084	0.29144065	2.2530420	21	—	—
130811 2000 UH_{6}	16.5	X	53.68008	313.45390	28.35815	4.54027	0.1900970	0.28793491	2.2712930	21	—	—
130812 2000 UP_{6}	15.8	X	1.52276	219.86489	214.32659	2.52342	0.2134670	0.24177943	2.5518579	21	—	—
130813 2000 UM_{8}	15.9	X	197.68972	19.83982	47.58366	12.01817	0.1354628	0.26694907	2.3888219	21	6 4.2	19.7
130814 2000 UW_{8}	15.1	X	7.07237	169.98330	231.62905	13.14735	0.1735658	0.23856734	2.5747124	21	—	—
130815 2000 UD_{9}	15.5	X	228.60826	318.61971	49.20594	8.91408	0.1171939	0.26415473	2.4056390	21	4 22.7	19.0
130816 2000 UJ_{9}	16.0	X	181.81059	344.39918	33.56394	1.67711	0.1937090	0.25946551	2.4345365	21	3 21.3	19.9
130817 2000 UU_{9}	16.2	X	160.45176	315.79695	68.03016	3.07007	0.1918473	0.25714658	2.4491509	21	3 10.6	19.9
130818 2000 UM_{13}	15.4	X	104.03593	149.85699	238.04097	7.00823	0.1640055	0.25155045	2.4853410	21	1 3.3	18.3
130819 2000 UQ_{14}	16.5	X	295.77368	61.71136	5.12855	12.74604	0.2623031	0.23193974	2.6235294	21	9 17.1	19.1
130820 2000 UH_{17}	15.9	X	263.02002	171.18308	156.44139	6.17362	0.1355555	0.26613029	2.3937191	21	4 5.8	19.4
130821 2000 UT_{19}	16.5	X	337.64065	126.52233	67.21738	2.57227	0.0532686	0.25622575	2.4550153	21	1 25.1	19.6
130822 2000 UD_{20}	16.7	X	18.75974	285.16623	44.13214	4.29732	0.1096591	0.28115202	2.3076782	21	10 23.6	18.9
130823 2000 UJ_{22}	15.9	X	332.28282	354.21839	96.87707	3.13081	0.1483658	0.23996235	2.5647241	21	—	—
130824 2000 UQ_{25}	15.9	X	255.47225	246.95884	114.07844	4.55251	0.2022192	0.26838784	2.3802769	21	5 4.7	19.6
130825 2000 UV_{25}	15.9	X	310.01013	261.92464	92.02546	8.29361	0.1344840	0.27393864	2.3480131	21	7 18.1	18.2
130826 2000 UT_{28}	16.5	X	123.35393	207.56059	260.18994	1.65764	0.1443906	0.26232393	2.4168189	21	5 12.2	19.8
130827 2000 UB_{34}	15.7	X	81.10782	48.94914	300.47704	1.35405	0.0515723	0.24385262	2.5373737	21	—	—
130828 2000 UL_{36}	16.4	X	120.13040	66.46990	25.96070	2.44359	0.1644645	0.25972171	2.4329352	21	4 20.7	19.7
130829 2000 UX_{36}	16.5	X	146.42541	9.55037	352.15984	2.34675	0.2049611	0.25423474	2.4678161	21	1 29.3	20.0
130830 2000 UJ_{40}	15.9	X	243.30237	347.61718	40.66810	7.11716	0.1217683	0.26910807	2.3760281	21	6 2.3	19.3
130831 2000 UL_{43}	16.7	X	184.97653	183.19846	184.92289	0.69293	0.2040386	0.25956660	2.4339044	21	3 11.7	20.7
130832 2000 UG_{44}	15.6	X	39.61790	22.52578	25.64723	3.87966	0.1959255	0.24367937	2.5385762	21	—	—
130833 2000 UH_{44}	16.3	X	7.80881	288.15169	27.40807	3.36222	0.2425109	0.27844459	2.3226131	21	10 1.2	17.8
130834 2000 US_{44}	16.9	X	215.71483	272.23606	89.98188	0.40045	0.2225549	0.26315496	2.4117281	21	3 29.8	20.9
130835 2000 US_{46}	16.0	X	101.77484	282.91068	43.30338	7.56390	0.1872510	0.29131890	2.2536697	21	—	—
130836 2000 UJ_{47}	16.5	X	61.43081	297.41661	45.16352	4.05278	0.1751288	0.28772492	2.2723980	21	—	—
130837 2000 UU_{47}	15.4	X	310.87509	220.21563	235.80821	6.63793	0.1568227	0.23659878	2.5889742	21	12 12.9	17.8
130838 2000 UY_{47}	16.3	X	348.45249	195.29011	142.78948	0.96024	0.2183473	0.27790204	2.3256350	21	9 14.4	17.3
130839 2000 UY_{50}	15.4	X	345.56929	250.35278	238.91473	23.58312	0.2116955	0.24276141	2.5449716	21	—	—
130840 2000 UN_{51}	16.3	X	318.86430	0.27223	22.37066	2.83245	0.2250010	0.27866186	2.3214056	21	9 10.9	17.8
130841 2000 UG_{52}	16.4	X	191.94313	327.70731	75.44818	1.38716	0.1490487	0.26325253	2.4111321	21	4 29.7	20.0
130842 2000 UY_{54}	16.4	X	96.18258	260.39861	95.73545	5.70368	0.2221838	0.29410260	2.2394264	21	—	—
130843 2000 UP_{60}	16.7	X	143.05577	102.39811	334.21554	1.99971	0.1708210	0.26144557	2.4222290	21	4 24.9	20.4
130844 2000 UL_{61}	15.7	X	313.98324	71.30875	15.25746	12.94983	0.1358022	0.23746043	2.5827075	21	12 3.2	18.6
130845 2000 UQ_{62}	15.2	X	238.52498	97.01233	280.63667	4.91404	0.1551691	0.26805567	2.3822430	21	5 10.3	18.8
130846 2000 UL_{63}	15.7	X	204.85213	111.46543	309.38679	2.28842	0.0443012	0.26817662	2.3815266	21	6 7.6	18.7
130847 2000 UB_{64}	16.7	X	213.23664	86.21545	328.45146	7.95460	0.2529237	0.22032871	2.7149093	21	5 30.9	21.6
130848 2000 UF_{64}	16.7	X	146.48953	34.99824	268.26498	5.29406	0.1365168	0.29590443	2.2303263	21	—	—
130849 2000 UU_{64}	16.0	X	83.63711	102.93133	1.98998	7.24273	0.0342848	0.25883718	2.4384748	21	3 1.1	18.9
130850 2000 UU_{66}	16.1	X	88.89331	129.33335	339.26011	5.66625	0.0740567	0.25871801	2.4392235	21	3 16.4	19.1
130851 2000 UO_{68}	16.9	X	112.24971	68.54609	18.54675	2.61186	0.1729705	0.25789831	2.4443894	21	4 5.4	20.2
130852 2000 UR_{68}	16.4	X	33.57624	5.54433	277.99592	2.92254	0.1517294	0.27798122	2.3251934	21	9 14.1	18.7
130853 2000 UW_{68}	16.1	X	90.59981	287.01937	276.32236	2.29021	0.0547170	0.27207390	2.3587295	21	7 29.7	19.0
130854 2000 UD_{73}	16.1	X	26.11714	230.51659	155.02543	5.16219	0.1871714	0.23906738	2.5711210	21	—	—
130855 2000 UX_{73}	15.7	X	248.98832	310.47253	46.77710	7.18302	0.1389888	0.26646234	2.3917300	21	4 27.9	19.0
130856 2000 UZ_{73}	15.9	X	165.32848	324.47420	83.99883	3.66230	0.0966835	0.25970524	2.4330381	21	4 8.6	19.3
130857 2000 UV_{77}	15.8	X	17.14638	239.31422	192.05054	3.16048	0.1897110	0.24159660	2.5531452	21	—	—
130858 2000 UJ_{79}	15.5	X	331.40506	284.32576	40.78913	5.09922	0.2207720	0.27357069	2.3501180	21	7 1.6	17.3
130859 2000 UO_{81}	14.6	X	359.52138	168.63442	261.18017	5.16786	0.2565458	0.23865565	2.5740772	21	—	—
130860 2000 UY_{82}	15.9	X	5.06957	232.20386	54.38739	10.42790	0.1035383	0.27397811	2.3477876	21	7 24.0	18.4
130861 2000 UH_{85}	16.5	X	177.29275	17.34986	57.64940	7.50971	0.0940550	0.26599545	2.3945280	21	5 24.6	20.0
130862 2000 US_{86}	16.1	X	282.34868	212.50972	120.03698	5.23370	0.0833175	0.26788395	2.3832609	21	5 13.6	19.2
130863 2000 UB_{103}	15.4	X	228.29739	74.40125	268.77518	6.02922	0.1479431	0.26113934	2.4241222	21	3 15.7	19.4
130864 2000 UD_{103}	15.0	X	59.56616	336.34357	41.71802	14.63607	0.1719339	0.24262074	2.5459552	21	—	—
130865 2000 UJ_{107}	16.7	X	103.61928	225.83756	108.19851	6.22619	0.1575115	0.29289084	2.2455989	21	—	—
130866 2000 UO_{109}	15.3	X	269.53514	5.80161	103.10146	7.48246	0.2447877	0.23123686	2.6288432	21	10 8.9	18.7
130867 2000 US_{110}	15.7	X	256.95191	67.63479	32.96663	23.21151	0.2509010	0.22746212	2.6578471	21	9 19.6	19.9
130868 2000 VZ	16.3	X	89.89909	283.94332	66.37493	2.56236	0.0651131	0.24366659	2.5386650	21	—	—
130869 2000 VH_{1}	14.8	X	342.14503	206.70475	239.14773	12.73984	0.2621036	0.23653300	2.5894542	21	—	—
130870 2000 VK_{1}	15.1	X	21.62278	244.11972	203.41046	4.52360	0.2771383	0.24173473	2.5521724	21	—	—
130871 2000 VG_{2}	14.4	X	155.27047	221.59310	281.45518	22.40639	0.3157621	0.21323472	2.7747941	21	7 30.7	19.7
130872 2000 VQ_{2}	16.0	X	324.75024	289.84094	186.88229	4.51974	0.1937761	0.24084808	2.5584322	21	—	—
130873 2000 VR_{2}	16.0	X	86.05911	249.65098	74.74211	10.68694	0.1676688	0.28992572	2.2608837	21	—	—
130874 2000 VK_{3}	16.4	X	257.05360	47.50250	353.35529	1.77159	0.1920396	0.27139509	2.3626609	21	6 28.3	19.6
130875 2000 VN_{3}	15.8	X	224.83762	267.51968	219.02009	5.53817	0.0484924	0.27946347	2.3169644	21	10 4.0	18.6
130876 2000 VU_{4}	16.3	X	215.56895	334.10108	76.10820	3.33855	0.0721892	0.26755636	2.3852058	21	6 4.9	19.7
130877 2000 VT_{7}	16.3	X	224.65218	305.98544	38.68268	7.73449	0.0983135	0.26197074	2.4189906	21	3 21.9	19.8
130878 2000 VM_{13}	15.9	X	330.67591	284.98879	67.87120	7.83255	0.1368871	0.27662926	2.3327631	21	8 31.9	18.1
130879 2000 VP_{13}	16.3	X	103.70641	345.23947	113.69107	3.63368	0.1353788	0.25764371	2.4459994	21	4 6.5	19.3
130880 2000 VV_{13}	15.7	X	337.18879	174.86432	156.53899	2.89326	0.1788660	0.27555492	2.3388226	21	8 1.2	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130881 2000 VX_{13}	15.9	X	250.29146	309.28651	67.48445	6.93585	0.1268751	0.26861751	2.3789200	21	5 26.3	18.9
130882 2000 VN_{15}	16.4	X	161.87409	191.16475	186.88326	1.73837	0.1775539	0.25701383	2.4499942	21	3 1.7	20.1
130883 2000 VU_{15}	16.9	X	100.15775	220.81061	126.62846	2.54931	0.2130215	0.29380999	2.2409131	21	—	—
130884 2000 VY_{17}	16.1	X	223.20668	327.00140	81.40925	5.50014	0.1252604	0.26765408	2.3846253	21	6 7.8	19.4
130885 2000 VV_{21}	15.9	X	57.43038	120.44260	99.63742	4.43364	0.0910206	0.26844524	2.3799376	21	7 11.0	18.5
130886 2000 VO_{22}	15.8	X	346.13035	40.71213	67.45752	5.88448	0.1966977	0.24204961	2.5499586	21	—	—
130887 2000 VB_{23}	16.1	X	359.87668	21.23948	27.64626	2.57080	0.2211424	0.23874441	2.5734391	21	—	—
130888 2000 VU_{23}	16.4	X	201.80777	330.64119	43.71924	3.40128	0.2074397	0.26249208	2.4157867	21	4 3.3	20.4
130889 2000 VX_{23}	16.4	X	197.73900	350.00542	43.64825	3.83481	0.1774180	0.26354603	2.4093417	21	4 23.1	20.3
130890 2000 VE_{24}	15.8	X	258.95857	316.24629	38.50484	6.94333	0.1170339	0.26686957	2.3892963	21	5 7.1	18.9
130891 2000 VP_{24}	15.5	X	71.70628	334.68608	29.16865	2.46858	0.0962243	0.24256094	2.5463737	21	—	—
130892 2000 VV_{24}	16.2	X	154.73754	50.58725	47.37285	6.77963	0.0860206	0.26568160	2.3964133	21	5 28.9	19.5
130893 2000 VA_{27}	16.8	X	121.88445	205.64686	221.17782	1.41070	0.1919369	0.25658904	2.4526974	21	3 23.4	20.2
130894 2000 VC_{28}	15.7	X	14.44050	328.03718	117.32745	5.22439	0.2162185	0.24315445	2.5422284	21	—	—
130895 2000 VM_{28}	16.3	X	324.78490	204.98598	184.22255	4.13508	0.2301232	0.27926309	2.3180725	21	10 9.3	17.4
130896 2000 VY_{28}	14.9	X	339.07879	8.33949	81.81161	7.06380	0.3179880	0.23853566	2.5749404	21	—	—
130897 2000 VS_{30}	16.1	X	355.85406	303.33785	80.75259	7.67195	0.1823629	0.28239215	2.3009171	21	12 14.3	17.9
130898 2000 VQ_{31}	15.9	X	229.78150	357.58912	49.17551	7.24573	0.1216146	0.26808978	2.3820409	21	6 12.4	19.4
130899 2000 VG_{32}	16.6	X	135.64899	9.53610	55.55065	3.50647	0.1858769	0.25733582	2.4479500	21	4 6.3	20.1
130900 2000 VH_{32}	15.6	X	160.93524	326.60097	61.18632	3.13234	0.2015631	0.25726216	2.4484173	21	3 16.7	19.5
130901 2000 VB_{33}	15.4	X	245.90927	233.27210	231.24859	13.37909	0.3095470	0.22604079	2.6689771	21	8 18.9	20.0
130902 2000 VW_{33}	16.1	X	202.58995	187.67612	231.21517	8.13859	0.1849517	0.26540501	2.3980780	21	5 29.6	19.9
130903 2000 VE_{35}	14.6	X	90.40181	312.54598	74.68308	13.76639	0.1674875	0.24644477	2.5195500	21	—	—
130904 2000 VH_{39}	14.9	X	291.42299	35.00819	91.03798	33.68130	0.2206167	0.23285851	2.6166239	21	12 12.9	17.4
130905 2000 VO_{39}	16.2	X	69.32114	6.36244	280.73219	4.28572	0.2012349	0.28434368	2.2903771	21	11 16.4	19.4
130906 2000 VD_{42}	16.0	X	114.56120	258.93280	257.53649	3.08792	0.0351229	0.26843435	2.3800020	21	6 22.9	19.0
130907 2000 VQ_{44}	16.1	X	272.12047	66.68043	50.09030	13.28109	0.2066949	0.23355961	2.6113849	21	10 28.1	19.2
130908 2000 VH_{45}	15.8	X	332.35670	284.28516	64.33854	8.67686	0.0909986	0.27545216	2.3394042	21	8 31.4	18.3
130909 2000 VG_{46}	16.4	X	347.85550	237.49840	185.91451	8.70233	0.1494497	0.23900051	2.5716005	21	—	—
130910 2000 VU_{53}	15.7	X	136.74439	308.79211	1.21785	4.83457	0.0509954	0.24396316	2.5366072	21	—	—
130911 2000 VK_{54}	16.1	X	58.13307	74.92924	257.94498	6.10733	0.1527999	0.28586222	2.2822587	21	12 28.6	19.2
130912 2000 VJ_{56}	16.0	X	317.58593	343.29702	345.99258	2.06912	0.2257272	0.27250555	2.3562379	21	6 5.9	18.1
130913 2000 VX_{62}	15.2	X	293.81212	68.69163	42.07548	22.45004	0.0848343	0.23258949	2.6186411	21	12 2.7	18.5
130914 2000 WY	16.4	X	107.71852	91.53581	68.18886	7.73163	0.0569606	0.26654514	2.3912347	21	6 21.2	19.4
130915 2000 WO_{2}	15.4	X	339.54337	12.76218	93.99925	5.42696	0.2057762	0.23826155	2.5769149	21	—	—
130916 2000 WY_{4}	15.0	X	42.54027	127.22224	279.01838	21.97110	0.0861162	0.24241029	2.5474285	21	—	—
130917 2000 WE_{8}	15.6	X	3.52918	125.95300	118.81405	7.43995	0.0947928	0.26475785	2.4019843	21	5 15.7	18.2
130918 2000 WP_{8}	15.1	X	220.14571	212.50333	283.98042	12.92871	0.1476553	0.22637658	2.6663371	21	9 17.9	19.5
130919 2000 WU_{8}	15.8	X	308.28491	6.67539	49.28106	10.64694	0.1311467	0.22969709	2.6405783	21	10 15.5	18.7
130920 2000 WL_{11}	14.9	X	157.16183	225.10738	314.86291	8.98506	0.2244131	0.21966739	2.7203554	21	9 15.5	19.7
130921 2000 WF_{15}	15.7	X	255.46314	12.02057	87.42996	13.00784	0.1510564	0.22923513	2.6441247	21	9 25.4	19.6
130922 2000 WK_{15}	16.4	X	322.69059	103.28190	315.32687	2.82157	0.2711250	0.23329788	2.6133376	21	11 4.5	18.0
130923 2000 WB_{16}	16.6	X	353.26027	225.66652	243.63933	3.68074	0.2203201	0.24274524	2.5450847	21	—	—
130924 2000 WH_{17}	16.1	X	296.53980	302.87905	57.54902	4.93610	0.1937685	0.27206527	2.3587793	21	6 23.3	18.8
130925 2000 WY_{17}	15.5	X	355.21138	0.61874	96.62349	5.47146	0.2724413	0.24113012	2.5564369	21	—	—
130926 2000 WF_{19}	14.9	X	290.14664	249.61794	193.93643	11.77766	0.2462000	0.23157622	2.6262743	21	10 1.2	17.8
130927 2000 WM_{22}	16.1	X	308.38240	32.73771	66.51117	14.68334	0.2144708	0.23748754	2.5825109	21	12 8.0	18.2
130928 2000 WN_{25}	16.1	X	51.71454	78.11705	57.76209	6.82036	0.0825572	0.25474697	2.4645068	21	3 3.2	18.9
130929 2000 WA_{26}	15.9	X	277.61694	214.15737	270.06357	3.47744	0.2140904	0.23346093	2.6121207	21	11 11.4	19.0
130930 2000 WR_{26}	16.4	X	64.93394	260.04631	63.78804	7.44938	0.1391589	0.28378650	2.2933741	21	12 22.5	19.4
130931 2000 WF_{29}	15.5	X	254.74447	68.34992	79.77206	28.18807	0.2087456	0.23272713	2.6176086	21	11 19.4	19.2
130932 2000 WP_{29}	15.4	X	174.77954	323.33131	238.95698	23.37118	0.1653004	0.27887158	2.3202416	21	11 5.5	19.1
130933 2000 WL_{31}	15.5	X	352.26631	314.58655	106.73037	8.39769	0.0441467	0.23789115	2.5795891	21	12 30.9	18.8
130934 2000 WA_{32}	15.8	X	315.22113	69.40492	91.44443	12.67115	0.0898657	0.24435662	2.5338835	21	—	—
130935 2000 WL_{35}	16.4	X	279.65142	296.51395	152.59278	5.91184	0.2415504	0.22962498	2.6411311	21	9 24.3	19.4
130936 2000 WD_{40}	15.6	X	229.06541	211.47058	216.44706	7.42606	0.1822859	0.22095188	2.7098021	21	7 4.6	20.1
130937 2000 WM_{40}	15.7	X	333.79849	265.80780	153.36884	5.04196	0.1715472	0.23379226	2.6096522	21	12 6.1	18.2
130938 2000 WK_{41}	15.2	X	288.29606	238.19511	241.27916	10.92795	0.1582608	0.23211342	2.6222205	21	12 2.2	17.8
130939 2000 WR_{41}	15.5	X	63.55076	265.06939	145.69515	7.16194	0.0865581	0.24385402	2.5373640	21	—	—
130940 2000 WE_{43}	16.0	X	321.73926	56.07821	78.54645	15.12179	0.1089321	0.24223957	2.5486253	21	—	—
130941 2000 WY_{43}	16.0	X	350.32000	350.57716	64.66730	4.43910	0.0165327	0.23836004	2.5762050	21	12 18.0	19.3
130942 2000 WB_{50}	16.5	X	36.89634	246.35216	103.99994	7.44055	0.1459319	0.28646037	2.2790806	21	12 25.5	19.2
130943 2000 WY_{51}	17.1	X	339.84587	14.50823	261.57257	0.34758	0.1545696	0.26632856	2.3925309	21	5 9.5	19.2
130944 2000 WK_{54}	16.0	X	51.44046	102.29325	255.82935	4.97720	0.1942414	0.28820940	2.2698507	21	—	—
130945 2000 WC_{55}	15.5	X	304.23565	6.67476	87.54392	5.92859	0.2279346	0.23113907	2.6295846	21	11 19.3	17.8
130946 2000 WT_{61}	15.6	X	41.84720	343.78539	95.44777	7.20128	0.2407029	0.24342866	2.5403189	21	—	—
130947 2000 WP_{62}	15.5	X	285.15149	21.70308	60.78823	22.92526	0.0645235	0.22800779	2.6536049	21	10 28.1	19.1
130948 2000 WM_{66}	15.9	X	334.03516	24.61877	57.47773	17.92050	0.1218009	0.23775284	2.5805894	21	—	—
130949 2000 WQ_{66}	16.1	X	32.98965	276.92891	65.37689	6.65813	0.2164754	0.28340937	2.2954081	21	12 19.4	18.9
130950 2000 WS_{72}	15.9	X	341.93767	257.63854	311.39056	4.36220	0.0400640	0.25747401	2.4470741	21	2 20.7	18.9
130951 2000 WQ_{74}	16.2	X	322.14594	330.06981	7.91573	4.34577	0.2134269	0.27441834	2.3452760	21	7 3.2	18.3
130952 2000 WB_{76}	15.7	X	272.61165	313.96546	35.31377	7.60297	0.1435183	0.26824011	2.3811508	21	5 12.2	18.9
130953 2000 WT_{79}	16.2	X	4.97625	55.69971	45.07924	6.43873	0.1853218	0.24349677	2.5398452	21	—	—
130954 2000 WL_{81}	15.8	X	320.85728	227.21062	274.05551	6.98402	0.1532424	0.24194239	2.5507119	21	—	—
130955 2000 WT_{90}	15.7	X	280.64887	26.66948	67.14645	2.67363	0.0762244	0.23154119	2.6265391	21	10 27.7	18.9
130956 2000 WE_{95}	15.6	X	210.78752	46.82500	58.11498	4.49629	0.1809957	0.22177417	2.7030997	21	8 5.8	19.9
130957 2000 WS_{95}	16.1	X	357.16984	155.00475	271.73093	0.67567	0.1610281	0.23816582	2.5776054	21	—	—
130958 2000 WD_{96}	15.8	X	331.20028	27.31454	55.31119	4.49075	0.1410450	0.23622367	2.5917142	21	—	—
130959 2000 WF_{96}	16.5	X	257.45665	33.96202	339.34838	1.65318	0.2110061	0.26790975	2.3831079	21	5 19.7	20.0
130960 2000 WS_{97}	15.5	X	186.44756	293.17222	69.90218	3.17248	0.2213645	0.25675208	2.4516590	21	3 9.5	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
130961 2000 WV_{98}	15.4	X	30.20892	352.43769	91.72244	6.53889	0.1420747	0.24296357	2.5435598	21	—	—
130962 2000 WX_{98}	17.0	X	251.72073	154.49273	247.24970	0.69760	0.1834724	0.27018108	2.3697331	21	6 24.3	20.5
130963 2000 WD_{101}	14.7	X	265.50148	26.67552	92.63604	12.49106	0.1310760	0.22960529	2.6412821	21	11 4.9	18.2
130964 2000 WW_{101}	15.6	X	185.67201	342.75427	91.95817	12.51224	0.1635589	0.26600398	2.3944768	21	6 4.6	19.5
130965 2000 WK_{106}	16.4	X	68.68038	196.00646	161.88609	6.90566	0.2647136	0.24293248	2.5437767	21	—	—
130966 2000 WA_{112}	16.3	X	272.71833	325.73764	33.92026	7.03386	0.1233411	0.26781864	2.3836483	21	5 29.6	19.4
130967 2000 WX_{112}	15.4	X	5.79217	46.47353	55.82391	11.54678	0.0809816	0.24356906	2.5393426	21	—	—
130968 2000 WC_{113}	16.0	X	267.88786	97.30830	17.73353	4.87206	0.2010812	0.23122457	2.6289363	21	10 17.3	19.2
130969 2000 WC_{114}	15.8	X	261.56767	40.54958	61.12489	13.03187	0.1197413	0.22922062	2.6442363	21	10 10.1	19.4
130970 2000 WD_{114}	16.4	X	97.79879	64.08934	27.71919	2.97692	0.1504705	0.25423735	2.4677992	21	3 21.1	19.3
130971 2000 WP_{114}	15.8	X	250.40254	358.32129	30.78719	3.10612	0.1833868	0.26856166	2.3792498	21	6 5.4	19.1
130972 2000 WB_{116}	15.2	X	189.99301	37.65348	308.12928	5.83577	0.1818896	0.25484102	2.4639005	21	2 15.6	19.1
130973 2000 WS_{116}	16.3	X	120.37283	45.15434	18.08232	2.58753	0.1732153	0.25386234	2.4702289	21	3 15.8	19.7
130974 2000 WX_{116}	16.1	X	134.15897	20.37621	39.92419	6.43061	0.1404268	0.25500698	2.4628313	21	3 25.5	19.6
130975 2000 WB_{118}	15.3	X	244.78503	71.55796	75.22457	13.52796	0.0996477	0.23059262	2.6337373	21	11 15.4	18.8
130976 2000 WW_{118}	15.8	X	1.45115	108.28721	356.05821	2.67324	0.1008618	0.24305632	2.5429126	21	—	—
130977 2000 WO_{123}	16.0	X	2.05204	352.41746	48.07109	2.89984	0.2135970	0.23533240	2.5982538	21	—	—
130978 2000 WN_{125}	15.7	X	166.37063	287.62938	78.63282	2.06682	0.2481502	0.25411076	2.4686187	21	2 26.1	19.7
130979 2000 WF_{126}	15.7	X	252.69935	295.95371	38.16052	7.69693	0.1265723	0.26232872	2.4167895	21	4 4.4	19.3
130980 2000 WJ_{126}	15.0	X	286.77279	20.56121	58.85246	12.05346	0.1771368	0.22672700	2.6635891	21	10 7.3	18.3
130981 2000 WX_{126}	15.8	X	208.32638	266.00442	86.58020	2.86380	0.2728757	0.25982896	2.4322657	21	3 13.8	20.1
130982 2000 WH_{130}	16.0	X	280.02020	31.15137	77.32796	3.20734	0.1611388	0.23182990	2.6243581	21	11 3.5	18.9
130983 2000 WM_{130}	15.8	X	254.84517	297.44235	104.29800	12.32825	0.1475178	0.27271410	2.3550366	21	7 2.6	19.0
130984 2000 WA_{133}	16.2	X	355.63798	58.25808	3.50881	11.60855	0.1777571	0.23955656	2.5676195	21	—	—
130985 2000 WX_{133}	15.2	X	107.23004	17.41711	21.98847	14.32604	0.0849591	0.25160156	2.4850044	21	1 16.1	18.6
130986 2000 WD_{138}	16.9	X	168.67939	51.59137	21.72823	1.33482	0.1547728	0.26332452	2.4106927	21	5 15.7	20.7
130987 2000 WO_{140}	15.6	X	264.74270	278.20727	70.83027	7.89757	0.1591954	0.26591217	2.3950279	21	5 3.6	19.0
130988 2000 WT_{141}	14.9	X	176.16639	350.06384	26.30090	10.26325	0.2918786	0.25524952	2.4612710	21	3 21.7	19.3
130989 2000 WL_{142}	15.4	X	22.60064	311.66944	118.96387	13.87856	0.1613322	0.24457691	2.5323617	21	—	—
130990 2000 WF_{153}	15.9	X	142.11896	84.67945	321.62688	1.40410	0.1689297	0.25564800	2.4587127	21	3 16.6	19.6
130991 2000 WC_{158}	14.7	X	206.25154	39.20230	50.38042	11.71716	0.3218395	0.21786702	2.7353216	21	7 6.8	19.9
130992 2000 WT_{159}	16.0	X	76.46781	219.06239	72.51738	11.72036	0.1116162	0.28139839	2.3063310	21	11 21.4	19.2
130993 2000 WZ_{159}	15.7	X	333.37221	48.46809	92.32782	8.45886	0.1535373	0.24392282	2.5368869	21	—	—
130994 2000 WA_{162}	15.7	X	341.17975	292.92127	129.13565	10.83349	0.1463472	0.23684343	2.5871910	21	12 23.7	18.4
130995 2000 WZ_{166}	16.6	X	173.89277	276.78056	136.04099	2.07672	0.2322401	0.26210425	2.4181691	21	4 28.5	20.6
130996 2000 WE_{167}	15.9	X	274.07229	182.45957	176.38548	4.04958	0.1358356	0.26979669	2.3719834	21	5 30.3	19.0
130997 2000 WS_{167}	16.6	X	122.03200	239.30724	94.27061	8.47933	0.1924996	0.29466646	2.2365687	21	—	—
130998 2000 WY_{170}	15.7	X	56.71664	28.40523	109.83383	7.19492	0.0810452	0.25632724	2.4543672	21	3 13.9	18.5
130999 2000 WU_{172}	15.4	X	9.18373	222.80671	106.13886	24.00390	0.2475952	0.27958534	2.3162910	21	11 9.9	18.1
131000 2000 WL_{178}	15.0	X	237.26951	174.45504	268.39782	14.14448	0.0713418	0.22188816	2.7021739	21	8 9.0	19.1
131001 2000 WJ_{180}	15.9	X	187.14092	52.50770	89.51340	13.77582	0.2430248	0.22238968	2.6981099	21	9 1.8	20.8
131002 2000 WP_{188}	16.2	X	133.07453	27.43062	260.18744	5.01505	0.1286528	0.29055399	2.2576233	21	—	—
131003 2000 WC_{192}	15.5	X	352.90088	354.83632	98.83358	16.02398	0.1544606	0.24280326	2.5446792	21	—	—
131004 2000 WT_{195}	16.3	X	229.49386	322.78869	71.97719	2.91968	0.1043803	0.26566681	2.3965023	21	5 28.9	19.6
131005 2000 XF_{2}	15.1	X	284.97671	250.03728	268.28056	3.55252	0.1986432	0.23550644	2.5969735	21	—	—
131006 2000 XW_{3}	15.6	X	256.38351	129.49917	21.93774	12.25505	0.2421195	0.23415501	2.6069562	21	11 10.2	19.2
131007 2000 XL_{8}	15.3	X	301.55527	358.19254	57.28902	13.29087	0.2154500	0.22827754	2.6515140	21	9 25.3	18.3
131008 2000 XM_{8}	15.0	X	11.93685	75.96007	346.89079	6.72587	0.1994105	0.23874250	2.5734529	21	—	—
131009 2000 XP_{9}	14.8	X	323.15135	16.90384	65.96369	16.44833	0.1110867	0.23188430	2.6239476	21	12 15.3	17.7
131010 2000 XQ_{9}	15.4	X	247.36766	50.38626	31.57915	13.13251	0.2426143	0.22226546	2.6991151	21	8 10.4	19.8
131011 2000 XA_{10}	15.1	X	259.25314	107.73417	64.99908	14.35771	0.0769439	0.23477855	2.6023384	21	—	—
131012 2000 XJ_{10}	15.3	X	207.86928	109.20401	63.80965	15.09869	0.1099399	0.22668224	2.6639397	21	11 4.3	19.3
131013 2000 XM_{10}	15.3	X	31.50140	353.82376	60.57031	16.28959	0.1071217	0.23770626	2.5809265	21	—	—
131014 2000 XG_{13}	16.7	X	268.81013	329.87921	57.56609	1.65318	0.2241074	0.27000338	2.3707727	21	6 19.1	19.9
131015 2000 XV_{15}	14.9	X	154.07306	309.36746	321.94307	12.82758	0.0372218	0.24158236	2.5532455	21	—	—
131016 2000 XX_{25}	15.4	X	232.25636	358.74098	50.37618	11.45269	0.2013981	0.21958102	2.7210688	21	6 12.2	19.9
131017 2000 XR_{26}	15.4	X	261.03371	94.03112	30.02398	13.76080	0.0584098	0.23106977	2.6301103	21	11 8.7	18.9
131018 2000 XA_{27}	15.9	X	261.61656	24.87548	35.71093	12.40274	0.1769020	0.22386092	2.6862753	21	8 5.9	19.9
131019 2000 XC_{31}	15.5	X	310.83456	106.41200	46.18830	15.39542	0.1380364	0.24075719	2.5590761	21	—	—
131020 2000 XG_{32}	15.0	X	7.99516	87.03910	296.76180	15.46244	0.2370576	0.23531075	2.5984131	21	12 31.7	17.9
131021 2000 XR_{33}	15.4	X	247.25250	110.67441	24.22755	11.58826	0.1393313	0.22956164	2.6416169	21	10 24.7	18.9
131022 2000 XQ_{37}	14.6	X	21.21474	354.72454	3.89935	14.00678	0.2273920	0.23230579	2.6207728	21	12 13.4	18.0
131023 2000 XK_{38}	15.4	X	271.67085	65.03395	32.85850	16.27883	0.1884622	0.22597476	2.6694970	21	10 6.1	18.8
131024 2000 XD_{39}	15.2	X	301.32553	91.97906	358.05396	11.74809	0.1513231	0.23299574	2.6155964	21	11 10.5	18.3
131025 2000 XO_{39}	15.2	X	305.57342	194.96708	322.22160	14.45514	0.0759186	0.24083244	2.5585430	21	—	—
131026 2000 XE_{41}	15.3	X	289.08476	141.49444	321.83868	11.98418	0.2177560	0.23278872	2.6171469	21	10 26.7	18.4
131027 2000 XP_{42}	15.2	X	332.18185	41.43128	27.86321	15.13586	0.1079831	0.23405189	2.6077219	21	12 11.3	18.4
131028 2000 XQ_{42}	15.5	X	257.83986	96.45790	9.08120	12.90646	0.1225079	0.22786595	2.6547060	21	10 3.0	18.7
131029 2000 XV_{42}	14.8	X	332.36561	98.41471	322.27455	16.73362	0.1650534	0.23348473	2.6119432	21	12 1.5	17.8
131030 2000 XG_{46}	15.6	X	284.45758	42.67428	62.75253	29.77001	0.1775796	0.23003499	2.6379918	21	11 10.3	18.8
131031 2000 XU_{46}	15.0	X	312.89981	42.90501	10.66402	12.49005	0.1547313	0.22954798	2.6417217	21	10 12.9	17.9
131032 2000 XQ_{48}	15.9	X	13.25692	30.61544	27.27153	7.64372	0.1540495	0.23878161	2.5731719	21	—	—
131033 2000 XG_{50}	15.0	X	142.26264	152.55821	9.11858	12.89168	0.1279257	0.21330281	2.7742036	21	8 16.2	19.5
131034 2000 XZ_{52}	15.4	X	298.06931	70.50175	26.66750	12.46325	0.0845820	0.23245512	2.6196502	21	11 23.0	18.6
131035 2000 XV_{53}	16.6	X	257.79927	158.62313	218.82268	1.86514	0.1111955	0.26785150	2.3834534	21	6 7.4	19.6
131036 2000 YE	15.6	X	212.32962	338.55102	9.23303	24.22609	0.2051752	0.25951829	2.4342064	21	3 15.7	19.8
131037 2000 YN	15.4	X	302.40333	99.76541	334.73398	21.73437	0.0401417	0.23075065	2.6325346	21	10 24.2	19.3
131038 2000 YP	15.3	X	130.36775	104.82813	56.94316	31.38413	0.2891219	0.21406069	2.7676517	21	8 23.9	20.8
131039 2000 YO_{2}	15.9	X	281.47802	67.77810	24.09723	13.01612	0.2645456	0.22957858	2.6414870	21	9 28.9	19.0
131040 2000 YM_{8}	16.2	X	208.45259	233.32236	132.75214	3.41977	0.2054367	0.25928119	2.4356901	21	3 30.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131041 2000 YA_{13}	15.4	X	197.14297	302.96148	212.99735	10.09480	0.2177367	0.22269352	2.6956551	21	9 19.8	20.1
131042 2000 YF_{16}	15.4	X	313.82159	236.24493	239.01201	2.96523	0.1935155	0.23503010	2.6004813	21	—	—
131043 2000 YU_{25}	15.8	X	348.48562	56.36749	39.57877	2.20240	0.1584930	0.23788290	2.5796487	21	—	—
131044 2000 YB_{26}	15.7	X	307.43897	260.30090	187.52020	3.90205	0.1186927	0.23378009	2.6097427	21	11 26.9	18.5
131045 2000 YH_{32}	16.4	X	207.69779	240.82084	136.09272	4.44531	0.2689101	0.30876059	2.1679777	21	4 8.8	20.1
131046 2000 YX_{32}	16.4	X	168.08579	69.83767	285.54563	7.01498	0.2311624	0.29983920	2.2107711	21	2 4.8	19.9
131047 2000 YB_{35}	15.2	X	168.76717	332.05327	136.27846	13.90993	0.2859926	0.21259891	2.7803237	21	7 3.8	20.4
131048 2000 YM_{38}	15.9	X	288.11046	310.83544	170.82168	2.83006	0.0579375	0.23309094	2.6148842	21	12 16.4	19.1
131049 2000 YP_{38}	15.9	X	349.93403	124.60223	242.76462	3.81664	0.1706308	0.27686811	2.3314213	21	11 2.1	17.6
131050 2000 YF_{48}	15.9	X	231.44924	185.33541	188.73283	2.18437	0.2283166	0.26205372	2.4184800	21	4 26.4	19.7
131051 2000 YK_{48}	16.5	X	183.79761	27.27319	111.13147	3.83029	0.1085562	0.26829682	2.3808153	21	8 27.4	19.9
131052 2000 YW_{48}	16.3	X	52.57698	280.55572	96.79431	7.48028	0.1222086	0.28568482	2.2832034	21	—	—
131053 2000 YY_{50}	15.6	X	228.46367	328.33403	116.09910	14.85667	0.1732240	0.22005079	2.7171947	21	7 27.1	19.7
131054 2000 YA_{53}	15.8	X	14.38370	331.82255	106.99882	4.97488	0.1887885	0.23985824	2.5654661	21	—	—
131055 2000 YP_{54}	15.8	X	351.03958	315.70850	104.80187	2.73395	0.2150369	0.23489434	2.6014831	21	—	—
131056 2000 YU_{54}	15.1	X	268.44700	83.99120	107.13511	8.42565	0.1216328	0.23684699	2.5871651	21	—	—
131057 2000 YG_{56}	15.7	X	224.00849	38.79653	110.11402	12.54116	0.0677471	0.22752821	2.6573324	21	10 30.7	19.6
131058 2000 YE_{58}	16.0	X	205.62834	204.53688	172.91320	1.07449	0.1959943	0.25936783	2.4351477	21	4 9.8	19.9
131059 2000 YP_{59}	15.6	X	20.49956	73.36319	330.80984	1.81508	0.1962298	0.23671939	2.5880947	21	—	—
131060 2000 YB_{62}	15.3	X	199.32735	255.15865	294.60769	11.61405	0.1348615	0.22708296	2.6608048	21	11 6.8	19.6
131061 2000 YG_{62}	16.0	X	73.94279	296.22339	243.45994	1.92792	0.1080163	0.25746152	2.4471532	21	6 10.2	18.8
131062 2000 YG_{69}	16.1	X	325.05270	258.79051	217.02075	4.30149	0.2004654	0.23908373	2.5710037	21	—	—
131063 2000 YP_{69}	15.9	X	324.14915	11.59431	100.92090	4.56958	0.1365461	0.23893187	2.5720930	21	—	—
131064 2000 YA_{70}	15.6	X	320.59872	52.29431	99.93370	4.80873	0.1802097	0.24182777	2.5515178	21	—	—
131065 2000 YS_{75}	16.5	X	346.82732	125.56172	282.67221	1.13465	0.2370520	0.23512339	2.5997933	21	12 23.9	18.5
131066 2000 YF_{77}	14.9	X	219.22677	228.78412	266.92132	13.60415	0.0557635	0.22719454	2.6599336	21	9 26.2	19.0
131067 2000 YO_{78}	15.3	X	201.54644	275.13355	277.10183	11.61407	0.2000211	0.22988307	2.6391539	21	11 8.1	19.7
131068 2000 YT_{79}	16.3	X	176.96116	77.89949	267.49752	4.94667	0.2056373	0.30071454	2.2064788	21	1 29.6	19.6
131069 2000 YD_{83}	15.6	X	13.15928	155.66835	245.13546	3.00929	0.1441455	0.23694936	2.5864198	21	—	—
131070 2000 YY_{85}	15.2	X	267.34213	87.60783	112.18830	15.15830	0.1311016	0.23934890	2.5691044	21	—	—
131071 2000 YR_{89}	16.1	X	339.53556	332.68634	66.99924	2.57778	0.1367915	0.23116478	2.6293896	21	11 16.3	18.7
131072 2000 YH_{91}	16.4	X	281.78282	22.84132	345.72088	0.63731	0.1947584	0.26815440	2.3816582	21	6 13.4	19.5
131073 2000 YQ_{91}	15.8	X	152.73461	358.99957	67.57509	3.37302	0.1611739	0.25698777	2.4501598	21	4 23.1	19.5
131074 2000 YZ_{92}	15.6	X	270.71472	281.65857	263.46499	10.63416	0.0872693	0.23858371	2.5745947	21	—	—
131075 2000 YP_{94}	15.7	X	207.50987	285.13284	273.79486	4.03051	0.0415886	0.23154350	2.6265216	21	12 11.2	19.4
131076 2000 YC_{103}	15.3	X	227.04006	320.98142	158.37778	7.54577	0.2270239	0.22238834	2.6981207	21	9 2.9	19.7
131077 2000 YH_{105}	15.1	X	198.59024	99.10188	9.64874	8.72922	0.3137381	0.21535653	2.7565382	21	7 26.9	20.2
131078 2000 YL_{106}	15.5	X	190.47910	358.78524	357.01800	2.37140	0.2011951	0.25676764	2.4515600	21	3 1.9	19.5
131079 2000 YG_{110}	15.1	X	273.69636	306.09890	99.55325	17.88201	0.1193379	0.22161005	2.7044342	21	8 7.4	18.8
131080 2000 YC_{111}	15.7	X	253.02536	92.83005	86.57683	4.61066	0.1032020	0.23389230	2.6089080	21	—	—
131081 2000 YG_{119}	16.4	X	232.00559	68.34979	1.36823	9.50181	0.2265306	0.21981839	2.7191096	21	7 8.7	21.0
131082 2000 YG_{121}	15.2	X	315.26071	350.48778	123.46374	14.74605	0.1147707	0.23353990	2.6115318	21	—	—
131083 2000 YV_{122}	15.2	X	304.98623	300.37388	132.58454	12.15564	0.2526680	0.23181428	2.6244759	21	10 21.2	17.8
131084 2000 YE_{123}	15.5	X	280.88480	283.89976	221.16229	9.30885	0.1715007	0.23318724	2.6141642	21	12 22.5	18.4
131085 2000 YL_{124}	15.9	X	216.55473	260.67141	130.39616	3.37551	0.1714483	0.26472931	2.4021569	21	5 8.0	19.6
131086 2000 YT_{126}	15.5	X	257.51378	79.53006	102.61421	13.38177	0.1173803	0.23327480	2.6135100	21	—	—
131087 2000 YM_{127}	15.8	X	276.51841	74.00137	88.49387	4.82892	0.1385328	0.23385055	2.6092185	21	—	—
131088 2000 YZ_{131}	15.1	X	303.48248	66.37449	109.19228	3.55697	0.0599528	0.19168247	2.9790728	21	—	—
131089 2000 YY_{134}	15.6	X	332.53111	168.43304	266.82188	13.51691	0.1524658	0.23861684	2.5743563	21	12 26.2	18.0
131090 2000 YY_{136}	15.1	X	304.53737	273.13285	247.80336	13.93013	0.0935773	0.23701148	2.5859679	21	—	—
131091 2000 YG_{140}	15.2	X	337.74456	38.22461	68.10313	15.82378	0.0679975	0.23363506	2.6108227	21	—	—
131092 2000 YP_{142}	16.1	X	284.55873	103.43672	98.98805	5.56097	0.0801730	0.23993738	2.5649020	21	—	—
131093 2000 YV_{142}	15.2	X	309.35271	254.35730	201.78509	26.98469	0.2580085	0.23400585	2.6080640	21	12 1.1	17.8
131094 2001 AQ_{3}	15.5	X	246.84611	320.50870	121.53080	13.57611	0.1613967	0.22248797	2.6973151	21	8 15.1	19.4
131095 2001 AW_{3}	15.7	X	40.12135	204.50489	207.63205	4.54078	0.1622084	0.24019577	2.5630622	21	—	—
131096 2001 AT_{5}	15.6	X	291.21728	238.92253	240.23250	3.15835	0.2189925	0.23156467	2.6263616	21	11 28.6	18.1
131097 2001 AG_{8}	16.0	X	328.24857	246.78261	98.41064	9.72244	0.1544406	0.27072640	2.3665498	21	8 8.7	18.1
131098 2001 AL_{13}	15.8	X	244.39765	318.16470	146.18024	9.02997	0.1534733	0.22308706	2.6924840	21	9 11.5	19.7
131099 2001 AP_{13}	15.3	X	124.96322	83.06472	114.42115	8.54401	0.0997582	0.21818339	2.7326767	21	9 8.7	19.4
131100 2001 AB_{20}	15.3	X	93.48972	147.44370	230.90448	7.42072	0.0706113	0.24212387	2.5494371	21	—	—
131101 2001 AA_{21}	16.3	X	226.48616	259.67827	147.17526	6.75046	0.1369908	0.26601812	2.3943919	21	6 9.3	19.9
131102 2001 AB_{24}	16.1	X	214.99389	254.84566	145.43892	3.46506	0.1953158	0.26185441	2.4197070	21	5 17.5	20.0
131103 2001 AS_{26}	15.2	X	313.87280	324.85266	54.89391	8.69796	0.2752033	0.22730960	2.6590359	21	8 12.7	17.9
131104 2001 AN_{28}	15.3	X	164.16661	115.21732	36.19253	11.27268	0.1410268	0.21710407	2.7417262	21	8 25.6	19.9
131105 2001 AV_{28}	16.0	X	140.03416	30.43611	36.88087	3.05818	0.1707209	0.25702562	2.4499193	21	4 11.4	19.6
131106 2001 AN_{29}	15.7	X	129.05050	37.19701	17.16659	3.30475	0.1743046	0.25384178	2.4703623	21	3 14.7	19.2
131107 2001 AV_{30}	15.5	X	323.33118	65.25069	84.65896	14.30371	0.1195735	0.24091062	2.5579894	21	—	—
131108 2001 AO_{32}	15.5	X	308.43498	94.50881	44.09635	5.66515	0.1380259	0.23721130	2.5845155	21	—	—
131109 2001 AA_{33}	16.0	X	18.23317	29.27600	36.47385	4.15487	0.1678381	0.23910561	2.5708469	21	—	—
131110 2001 AS_{34}	15.1	X	34.49132	28.70489	42.79604	4.71894	0.1947691	0.24221890	2.5487703	21	—	—
131111 2001 AN_{35}	15.2	X	203.73868	74.54528	31.26174	9.26454	0.1372172	0.21796984	2.7344613	21	8 4.6	19.6
131112 2001 AQ_{35}	14.7	X	169.71318	293.10042	321.43151	12.15281	0.1508915	0.23281253	2.6169685	21	12 31.3	19.0
131113 2001 AO_{45}	15.5	X	141.86571	137.10805	39.59753	6.17721	0.2155028	0.21760783	2.7374931	21	9 5.3	20.1
131114 2001 AY_{48}	15.1	X	249.00810	18.51286	65.60157	31.26991	0.1752869	0.22287960	2.6941545	21	9 2.8	19.8
131115 2001 BN	15.5	X	240.90004	96.92052	82.09984	7.93551	0.0685609	0.23032193	2.6358004	21	12 23.4	18.8
131116 2001 BS	15.8	X	261.56176	25.65727	107.95504	14.67799	0.2026009	0.22813889	2.6525882	21	11 8.1	19.5
131117 2001 BC_{1}	15.5	X	294.32168	275.61990	231.95668	6.47416	0.1413806	0.23443534	2.6048777	21	—	—
131118 2001 BA_{4}	15.6	X	124.92960	181.70803	349.50872	8.94436	0.1986227	0.21299087	2.7769116	21	8 13.2	20.2
131119 2001 BK_{4}	15.1	X	250.50639	1.74226	351.23564	15.38760	0.2060875	0.25961108	2.4336263	21	4 12.1	19.2
131120 2001 BY_{4}	15.2	X	2.91373	9.44480	110.37393	13.44502	0.1117243	0.23926984	2.5696703	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131121 2001 BS_{7}	15.8	X	242.38411	76.48421	44.79781	3.70661	0.1358487	0.22519754	2.6756356	21	10 3.3	19.4
131122 2001 BG_{11}	16.6	X	296.42972	174.56980	177.90546	2.59361	0.2352930	0.26743752	2.3859124	21	6 4.7	19.6
131123 2001 BO_{22}	15.7	X	328.94617	281.36970	131.51230	3.63186	0.1214402	0.23072807	2.6327064	21	11 16.1	18.4
131124 2001 BT_{22}	16.0	X	327.11082	150.03853	313.87678	1.64146	0.0759404	0.23557400	2.5964770	21	—	—
131125 2001 BD_{24}	15.0	X	224.42162	125.45772	117.74284	19.02553	0.2576888	0.23543742	2.5974810	21	—	—
131126 2001 BD_{28}	15.3	X	222.20119	38.08383	125.30808	15.09804	0.0582839	0.22671131	2.6637119	21	11 16.6	19.3
131127 2001 BJ_{31}	16.0	X	311.09934	4.17660	125.88816	4.47665	0.1514806	0.23425003	2.6062512	21	—	—
131128 2001 BX_{31}	16.5	X	280.24841	3.70021	100.23525	0.40860	0.2947058	0.22843216	2.6503174	21	10 5.2	19.4
131129 2001 BE_{36}	15.6	X	252.36275	41.55916	33.73614	3.30491	0.0761124	0.22087156	2.7104590	21	8 24.7	19.2
131130 2001 BH_{36}	15.2	X	130.27286	119.87518	117.32539	13.82255	0.1131582	0.22338431	2.6900949	21	11 6.7	19.6
131131 2001 BL_{36}	15.2	X	155.99163	187.65029	336.09707	8.74723	0.0770399	0.21532313	2.7568233	21	8 26.3	19.2
131132 2001 BW_{36}	16.4	X	97.53969	66.89755	120.87052	6.85769	0.0602249	0.26215502	2.4178569	21	7 17.9	19.3
131133 2001 BA_{41}	15.6	X	173.43528	163.45205	283.31005	7.33593	0.1245497	0.21180738	2.7872462	21	6 7.8	19.9
131134 2001 BD_{44}	15.1	X	184.23397	26.40234	143.30141	15.60354	0.1224246	0.21845225	2.7304341	21	10 6.2	19.5
131135 2001 BW_{46}	15.4	X	110.94416	277.87841	237.35676	8.15204	0.2148509	0.20993941	2.8037550	21	7 8.5	19.8
131136 2001 BT_{47}	15.3	X	143.06794	248.97287	323.99174	12.89534	0.0719042	0.21967139	2.7203224	21	10 6.9	19.6
131137 2001 BC_{50}	15.2	X	158.64942	331.47137	149.77326	12.66464	0.1727615	0.21046486	2.7990865	21	7 8.3	19.9
131138 2001 BV_{50}	15.4	X	154.32660	146.14113	22.67977	7.49716	0.1492958	0.21520000	2.7578748	21	9 4.5	19.8
131139 2001 BE_{52}	15.6	X	153.33296	153.77078	116.02467	4.01045	0.1048678	0.23192875	2.6236123	21	—	—
131140 2001 BV_{52}	15.0	X	212.47764	297.29365	244.77865	11.53399	0.1076743	0.22711578	2.6605484	21	11 17.1	18.9
131141 2001 BX_{53}	15.7	X	265.66436	57.85843	165.32628	7.82794	0.1465551	0.23914398	2.5705719	21	—	—
131142 2001 BF_{57}	16.0	X	93.32144	357.14221	166.22165	6.78158	0.1130347	0.25709865	2.4494553	21	6 16.3	19.2
131143 2001 BM_{62}	15.2	X	177.21086	333.58592	149.55955	9.85522	0.1422256	0.21363474	2.7713293	21	7 27.0	19.6
131144 2001 BF_{63}	15.4	X	321.54633	337.60558	148.35376	12.97079	0.1079431	0.23537489	2.5979411	21	—	—
131145 2001 BZ_{72}	15.0	X	29.59662	339.59165	244.52330	6.11859	0.1298047	0.20496731	2.8489160	21	6 5.4	18.0
131146 2001 BN_{73}	15.6	X	184.77132	267.09146	274.68531	10.76084	0.1090402	0.22406806	2.6846196	21	10 13.5	19.9
131147 2001 BD_{75}	15.2	X	357.89653	268.58293	178.79644	16.59378	0.2920182	0.23694845	2.5864265	21	—	—
131148 2001 BM_{79}	16.6	X	182.51683	144.78981	304.54445	1.03662	0.2030004	0.21346345	2.7728116	21	6 20.3	21.3
131149 2001 BF_{80}	16.1	X	268.34457	226.42724	201.36255	10.09358	0.2271274	0.22262611	2.6961993	21	8 8.1	20.1
131150 2001 BE_{82}	15.3	X	153.03539	334.44404	293.97134	12.15040	0.1472085	0.23014740	2.6371328	21	12 31.6	19.6
131151 2001 CD_{7}	15.4	X	157.79969	38.49471	124.26173	5.71841	0.0532796	0.21613431	2.7499212	21	8 27.5	19.3
131152 2001 CH_{9}	15.9	X	207.91168	127.00437	49.53262	5.00314	0.0795707	0.22457556	2.6805735	21	11 8.3	19.7
131153 2001 CV_{9}	14.9	X	217.84235	335.62525	326.22354	13.79140	0.1967918	0.24467903	2.5316571	21	1 22.5	19.2
131154 2001 CZ_{9}	15.7	X	164.89886	124.10242	25.34636	8.02016	0.2589832	0.21500373	2.7595529	21	8 22.6	20.7
131155 2001 CC_{10}	15.7	X	151.66117	1.84493	235.68613	7.95152	0.0711485	0.22671568	2.6636777	21	11 23.2	19.4
131156 2001 CK_{14}	15.8	X	177.43513	235.86410	339.09979	4.79717	0.1799493	0.22500650	2.6771498	21	11 15.8	20.2
131157 2001 CH_{16}	15.4	X	341.72652	345.50417	100.70820	6.56397	0.1716921	0.18612702	3.0380606	21	—	—
131158 2001 CD_{18}	15.4	X	33.31802	312.12250	256.14019	2.28490	0.1687148	0.20549367	2.8440491	21	5 24.0	18.4
131159 2001 CS_{19}	15.2	X	193.39873	37.83568	75.06691	9.57545	0.2662302	0.21474001	2.7618117	21	7 28.7	20.2
131160 2001 CQ_{21}	15.1	X	227.15803	345.57391	99.48201	9.60405	0.1607417	0.21880168	2.7275263	21	7 28.3	19.3
131161 2001 CL_{23}	15.0	X	140.63105	305.46573	312.73303	10.82506	0.1590615	0.22670537	2.6637585	21	12 6.6	19.5
131162 2001 CO_{24}	16.2	X	353.78521	322.47705	169.48821	4.85091	0.0914987	0.24057224	2.5603875	21	—	—
131163 2001 CT_{26}	15.1	X	119.16091	278.83190	324.31479	11.64523	0.0948435	0.22182616	2.7026774	21	10 21.1	19.4
131164 2001 CW_{27}	15.7	X	120.42378	161.53601	353.39473	13.01818	0.1740262	0.21053756	2.7984421	21	7 18.4	20.2
131165 2001 CU_{28}	15.0	X	45.40067	168.20858	101.25417	10.61568	0.1515288	0.21392305	2.7688387	21	9 12.8	18.6
131166 2001 CK_{30}	15.6	X	205.93990	111.49532	119.29004	1.12259	0.1076212	0.23212486	2.6221344	21	—	—
131167 2001 CH_{31}	15.7	X	215.48109	244.85770	50.09878	6.14763	0.0710170	0.24225835	2.5484936	21	1 9.6	19.4
131168 2001 CR_{32}	15.3	X	218.40670	154.67615	37.44864	13.92793	0.0840816	0.23046564	2.6347046	21	12 7.9	19.2
131169 2001 CX_{32}	15.2	X	121.72605	84.81892	64.91599	14.25358	0.1321565	0.21148360	2.7900902	21	7 5.4	19.5
131170 2001 CD_{34}	15.4	X	209.36638	18.29453	74.53515	14.24621	0.1864492	0.21646770	2.7470969	21	7 19.5	20.0
131171 2001 CO_{36}	15.3	X	26.03713	23.64137	39.18564	5.82298	0.3020836	0.23777268	2.5804458	21	—	—
131172 2001 CV_{37}	15.1	X	225.41471	75.70984	86.26332	22.74863	0.0399966	0.22601253	2.6691995	21	11 21.6	19.0
131173 2001 CN_{38}	15.6	X	274.12595	125.24341	43.43790	12.34999	0.1505349	0.23450544	2.6043585	21	—	—
131174 2001 CW_{38}	15.5	X	192.07749	35.31329	93.85303	14.19832	0.1120885	0.21864995	2.7287880	21	8 24.7	19.9
131175 2001 CX_{38}	15.8	X	178.84626	357.17043	82.85053	9.29208	0.1954342	0.21309116	2.7760403	21	6 5.9	20.3
131176 2001 CE_{39}	14.9	X	206.09558	203.87718	18.47068	10.55534	0.1955233	0.23027214	2.6361803	21	12 20.8	19.2
131177 2001 CL_{39}	15.5	X	187.98841	108.65793	89.04080	12.14850	0.2166693	0.22422434	2.6833720	21	11 7.8	20.1
131178 2001 CK_{40}	14.9	X	145.66299	59.99014	62.47577	10.36905	0.1295864	0.21114444	2.7930773	21	6 25.2	19.2
131179 2001 CW_{40}	15.4	X	215.60829	200.99060	66.65200	15.70322	0.0787965	0.23782005	2.5801032	21	—	—
131180 2001 CR_{41}	15.4	X	315.28485	181.06042	359.14230	2.16995	0.1279087	0.19087311	2.9874883	21	—	—
131181 2001 CT_{41}	15.8	X	263.03608	185.22867	199.54374	5.76807	0.0514980	0.21424571	2.7660581	21	7 3.1	19.7
131182 2001 CC_{43}	15.0	X	261.09271	14.36978	109.14740	22.74296	0.0369633	0.22396128	2.6854728	21	11 20.7	19.0
131183 2001 CJ_{45}	14.8	X	229.82117	344.25909	129.16984	26.57394	0.1905951	0.21948958	2.7218244	21	9 4.9	19.3
131184 2001 CE_{46}	15.3	X	289.56190	5.55227	89.50141	18.01176	0.1434340	0.22494525	2.6776358	21	11 8.6	18.7
131185 2001 CR_{46}	15.9	X	205.65936	84.21436	26.61682	10.62980	0.1602844	0.21849641	2.7300662	21	8 12.6	20.4
131186 Pauluckas	15.7	X	138.52679	95.93292	128.77664	4.50172	0.1209104	0.22062443	2.7124827	21	10 26.9	19.9
131187 2001 DW	16.3	X	153.90321	176.64836	101.67646	1.71643	0.0927042	0.23053197	2.6341992	21	—	—
131188 2001 DE_{2}	15.3	X	121.62515	122.58875	143.58880	12.26564	0.0472058	0.22516377	2.6759030	21	11 27.6	19.3
131189 2001 DO_{3}	15.8	X	179.74914	334.46596	74.25866	7.29449	0.1863076	0.25766712	2.4458513	21	4 28.5	19.7
131190 2001 DH_{6}	15.1	X	147.66593	196.28020	359.25740	11.80025	0.1040941	0.21878034	2.7277037	21	9 26.7	19.2
131191 2001 DC_{7}	15.4	X	100.46711	240.37222	356.00173	9.00344	0.0203881	0.21760253	2.7375376	21	9 18.4	19.1
131192 2001 DN_{7}	15.6	X	343.91478	301.76923	138.83854	12.59940	0.1911268	0.23160807	2.6260334	21	—	—
131193 2001 DY_{7}	15.9	X	152.40675	3.00657	137.65592	3.44385	0.1234242	0.21292013	2.7775266	21	7 25.1	20.0
131194 2001 DD_{10}	15.4	X	102.93881	155.97172	53.64056	7.62697	0.1819492	0.21201424	2.7854329	21	9 9.1	19.8
131195 2001 DZ_{11}	15.6	X	127.56265	173.04682	352.09854	7.84237	0.1536073	0.21092631	2.7950026	21	8 4.5	20.0
131196 2001 DY_{17}	14.7	X	41.63040	281.81207	28.50918	10.52319	0.0791809	0.21916288	2.7245286	21	10 17.2	18.1
131197 2001 DA_{18}	15.7	X	208.20928	111.92389	47.33268	8.30924	0.1036673	0.22181435	2.7027734	21	10 17.1	19.7
131198 2001 DW_{19}	15.4	X	296.68107	233.03089	11.09497	16.79966	0.1105600	0.24287599	2.5441712	21	2 7.6	19.2
131199 2001 DO_{23}	15.5	X	69.72655	114.70637	126.03367	6.00058	0.1027857	0.21364493	2.7712412	21	8 28.2	19.1
131200 2001 DD_{27}	15.2	X	186.56767	157.98671	346.56041	4.70780	0.1016363	0.21726747	2.7403513	21	9 3.6	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131201 2001 DN_{27}	16.2	X	226.74171	82.16532	25.79356	5.01272	0.1337398	0.21894938	2.7262995	21	8 30.1	20.3
131202 2001 DS_{28}	15.5	X	122.83326	174.69556	30.51602	5.48656	0.0787657	0.21562782	2.7542257	21	9 13.4	19.5
131203 2001 DT_{29}	15.2	X	116.21639	65.29107	116.01034	7.33081	0.0069292	0.21221952	2.7836364	21	7 25.8	18.8
131204 2001 DE_{32}	15.7	X	178.48724	124.89307	130.59821	9.85400	0.1803521	0.22974110	2.6402411	21	—	—
131205 2001 DK_{36}	15.6	X	263.33291	357.94489	162.85428	3.02552	0.0322386	0.23118142	2.6292634	21	—	—
131206 2001 DV_{41}	15.9	X	107.55402	281.54425	132.89369	3.45954	0.1739335	0.24658833	2.5185720	21	2 16.9	18.9
131207 2001 DH_{43}	15.3	X	302.07514	235.15000	158.49154	6.17926	0.0361101	0.21826017	2.7320359	21	9 10.7	18.9
131208 2001 DH_{48}	15.4	X	220.86855	28.40652	70.11648	5.79815	0.0723566	0.21861191	2.7291045	21	8 17.8	19.3
131209 2001 DS_{48}	15.1	X	111.89567	141.15411	78.10586	9.70716	0.0931859	0.21772874	2.7364795	21	9 23.9	19.3
131210 2001 DV_{48}	16.1	X	154.27065	98.87119	91.61956	8.65164	0.2310207	0.21846035	2.7303666	21	10 3.8	21.0
131211 2001 DE_{49}	15.4	X	240.38917	189.76108	93.58574	10.15002	0.0212514	0.24453363	2.5326606	21	1 24.2	18.9
131212 2001 DU_{49}	15.8	X	168.19353	111.14632	47.29549	8.48101	0.1340237	0.21708691	2.7418706	21	9 6.1	20.2
131213 2001 DP_{50}	15.2	X	244.57449	331.68014	102.74952	13.71914	0.1300864	0.21843616	2.7305682	21	8 6.7	19.2
131214 2001 DV_{62}	16.0	X	212.30603	327.47181	165.01846	2.63506	0.0105576	0.21987124	2.7186738	21	9 25.5	19.5
131215 2001 DB_{63}	15.3	X	120.77582	108.57031	149.22109	14.14927	0.0515240	0.22381418	2.6866493	21	11 17.3	19.4
131216 2001 DL_{63}	15.4	X	173.38676	86.95478	153.46101	14.63334	0.1174075	0.22739542	2.6583668	21	12 18.5	19.8
131217 2001 DW_{67}	15.4	X	285.40362	291.48009	157.71419	13.84208	0.1533208	0.22494572	2.6776320	21	10 19.9	18.7
131218 2001 DL_{71}	15.4	X	211.50417	17.43581	156.42323	6.58451	0.1029252	0.22338091	2.6901222	21	11 8.3	19.4
131219 2001 DT_{76}	15.4	X	23.75504	296.30179	287.54803	4.19941	0.2518059	0.20174556	2.8791661	21	6 4.0	18.0
131220 2001 DN_{78}	15.8	X	130.28039	114.27340	64.60422	1.60623	0.0114983	0.21237577	2.7822708	21	8 11.1	19.6
131221 2001 DZ_{80}	15.7	X	149.15916	95.61516	37.64957	8.90581	0.1008640	0.21128307	2.7918554	21	7 12.6	20.1
131222 2001 DW_{82}	16.1	X	269.93099	336.40737	159.35208	8.86671	0.0736479	0.22669191	2.6638640	21	12 6.8	19.6
131223 2001 DQ_{91}	15.4	X	64.67576	89.47675	168.82810	7.92067	0.1839411	0.21176763	2.7875950	21	9 25.3	19.1
131224 2001 DT_{92}	15.5	X	231.06654	300.51541	107.30214	4.55572	0.0965502	0.21180028	2.7873084	21	6 19.5	19.6
131225 2001 DD_{93}	15.3	X	234.14445	310.10805	180.17046	10.76574	0.1309977	0.22256844	2.6966650	21	10 5.2	19.0
131226 2001 DM_{93}	15.3	X	115.53865	250.24409	284.75919	6.61181	0.1586974	0.21163426	2.7887660	21	8 1.8	19.6
131227 2001 DZ_{95}	15.9	X	316.86796	20.69126	78.41124	4.11629	0.0300888	0.23101236	2.6305461	21	12 28.4	19.2
131228 2001 DK_{97}	15.5	X	31.41980	291.16647	132.76423	10.05165	0.0526396	0.23495901	2.6010057	21	—	—
131229 2001 DU_{100}	15.3	X	231.19585	137.82977	25.88453	12.08070	0.1268962	0.22812787	2.6526736	21	11 11.1	19.2
131230 2001 DD_{101}	15.6	X	217.79548	26.69549	79.52326	8.18897	0.0880164	0.21894962	2.7262976	21	8 23.8	19.7
131231 2001 DJ_{101}	15.3	X	70.63755	295.00558	14.21265	14.12620	0.0631897	0.22658354	2.6647133	21	11 16.4	19.2
131232 2001 DC_{103}	15.1	X	30.19407	151.98793	119.70063	10.32832	0.1155478	0.21140256	2.7908032	21	8 13.1	18.4
131233 2001 DL_{105}	16.4	X	259.94482	265.40198	215.89890	2.97794	0.1911409	0.22684049	2.6627006	21	10 15.7	19.8
131234 2001 DT_{107}	15.4	X	155.82636	113.70593	162.64271	11.73375	0.1898790	0.22705664	2.6610104	21	—	—
131235 2001 DA_{109}	16.0	X	111.37898	103.63532	27.48565	2.75102	0.1015644	0.20516932	2.8470457	21	5 26.3	19.9
131236 2001 ER	15.2	X	193.31541	14.32053	177.99633	16.62406	0.0449657	0.22397376	2.6853730	21	11 17.2	19.3
131237 2001 EE_{1}	15.4	X	201.87182	205.80952	9.92168	11.60850	0.1073078	0.22841674	2.6504367	21	12 16.6	19.5
131238 2001 EW_{1}	15.3	X	205.48192	37.31253	91.53795	9.14095	0.1111299	0.21770336	2.7366922	21	9 7.0	19.6
131239 2001 EB_{2}	15.1	X	224.77826	64.04143	104.15250	12.44478	0.1370734	0.22507100	2.6766383	21	11 14.3	19.1
131240 2001 EN_{8}	14.8	X	31.68504	206.17655	122.66717	3.87501	0.1309366	0.21876995	2.7277900	21	11 5.1	18.1
131241 2001 EY_{8}	15.3	X	276.65438	235.51613	139.60448	5.59351	0.0213829	0.21052999	2.7985092	21	7 13.2	19.2
131242 2001 EE_{9}	15.9	X	261.24785	349.11966	146.43158	4.55531	0.1371546	0.22584018	2.6705573	21	11 15.1	19.3
131243 2001 EV_{14}	15.5	X	120.57544	126.08523	115.07488	13.27299	0.2071408	0.21628657	2.7486304	21	11 5.9	20.3
131244 2001 FD	15.7	X	159.20195	41.75495	121.40589	8.88645	0.1539341	0.21232977	2.7826727	21	9 1.2	20.3
131245 Bakich	15.5	X	290.29642	182.55945	188.38866	4.34671	0.0846463	0.21153236	2.7896614	21	7 16.3	19.1
131246 2001 FH_{4}	15.9	X	169.17054	125.57312	129.67728	3.42497	0.0673907	0.22992434	2.6388381	21	—	—
131247 2001 FU_{4}	14.9	X	218.64093	167.45614	192.32576	10.09796	0.0977445	0.19598742	2.9352871	21	4 7.6	19.3
131248 2001 FX_{8}	15.3	X	113.39590	194.76179	19.06538	15.43958	0.1016179	0.21287043	2.7779589	21	9 18.5	19.5
131249 2001 FP_{12}	15.6	X	211.91939	51.24381	82.76667	3.25217	0.1750491	0.21763414	2.7372725	21	9 12.6	20.0
131250 2001 FV_{13}	15.6	X	38.93684	92.58322	46.83659	2.73698	0.0461051	0.19419647	2.9533064	21	2 23.9	19.5
131251 2001 FY_{13}	15.0	X	123.54874	45.98913	48.55590	2.39792	0.0302726	0.19963219	2.8994503	21	4 15.8	19.1
131252 2001 FJ_{16}	15.6	X	199.78128	340.89865	182.99105	12.69303	0.0891555	0.21866698	2.7286463	21	10 13.9	19.6
131253 2001 FA_{18}	15.2	X	89.13312	107.48297	193.61831	12.68890	0.1401126	0.21982736	2.7190355	21	12 9.6	19.5
131254 2001 FN_{18}	14.7	X	73.07715	259.72170	201.17619	10.40530	0.0767314	0.19353233	2.9600589	21	2 21.3	18.7
131255 2001 FB_{23}	14.8	X	224.13793	217.81336	32.78054	23.08205	0.0388591	0.18155786	3.0888206	21	—	—
131256 2001 FA_{25}	15.2	X	59.98879	99.74889	173.18356	13.23748	0.2044163	0.21194204	2.7860654	21	10 12.5	19.1
131257 2001 FG_{29}	14.1	X	242.70756	75.39233	197.53425	17.08502	0.2415104	0.18228092	3.0806468	21	1 10.4	19.7
131258 2001 FD_{30}	15.5	X	201.74339	336.74662	279.05598	11.98595	0.3004414	0.22869288	2.6483027	21	—	—
131259 2001 FE_{30}	15.1	X	116.24224	35.92259	41.71247	12.60975	0.0116068	0.19703567	2.9248672	21	3 19.5	19.3
131260 2001 FG_{33}	15.1	X	167.36964	358.84849	198.33504	14.41693	0.1247019	0.21903124	2.7256202	21	10 19.5	19.4
131261 2001 FU_{35}	15.2	X	196.44594	184.14775	11.13186	0.73442	0.1536708	0.17483539	3.1674989	21	11 6.4	20.2
131262 2001 FD_{36}	14.9	X	157.61452	352.40746	181.86843	6.57999	0.0671747	0.21506074	2.7590652	21	9 9.3	19.0
131263 2001 FX_{39}	14.7	X	226.00310	22.22253	348.64544	6.21265	0.1724999	0.25100915	2.4889128	21	4 18.4	18.7
131264 2001 FA_{43}	15.1	X	145.90813	50.54295	358.90954	11.85281	0.1005940	0.24537949	2.5268369	21	3 19.0	18.5
131265 2001 FD_{43}	15.3	X	7.46318	65.47048	192.40145	12.55936	0.0580723	0.20419934	2.8560545	21	6 12.4	19.2
131266 2001 FM_{44}	16.2	X	286.52200	355.52024	197.45766	5.16736	0.1850538	0.23405970	2.6076639	21	—	—
131267 2001 FX_{45}	15.0	X	12.26877	265.66409	8.86861	10.39869	0.1250681	0.20482763	2.8502111	21	7 18.9	18.4
131268 2001 FW_{50}	15.4	X	88.61066	80.08992	191.13438	10.98494	0.1951382	0.21488749	2.7605479	21	11 8.8	19.7
131269 2001 FF_{51}	14.8	X	176.18068	322.03241	10.69004	8.56786	0.0773295	0.18772701	3.0207738	21	1 25.7	19.5
131270 2001 FY_{59}	15.6	X	183.75989	67.36902	21.73808	4.58637	0.0550055	0.20852732	2.8163984	21	6 21.3	19.8
131271 2001 FT_{61}	15.4	X	77.42693	316.73914	9.96235	10.11237	0.0979387	0.22462150	2.6802080	21	12 24.3	19.4
131272 2001 FR_{63}	15.3	X	15.77374	72.38544	114.47773	3.31603	0.0129592	0.19736748	2.9215881	21	3 24.3	19.3
131273 2001 FQ_{64}	15.0	X	57.84620	299.03313	18.46210	9.11777	0.1495572	0.21875956	2.7278764	21	11 24.1	18.9
131274 2001 FO_{65}	15.4	X	78.70514	75.96783	94.66560	4.26840	0.1487037	0.20367270	2.8609757	21	6 13.0	19.2
131275 2001 FL_{66}	15.1	X	158.25577	1.16601	161.86509	9.86029	0.2110588	0.21334517	2.7738364	21	8 29.6	19.8
131276 2001 FV_{67}	14.8	X	41.04464	118.36834	177.35376	24.34010	0.0634303	0.21341628	2.7732202	21	9 23.9	18.2
131277 2001 FB_{69}	15.4	X	184.37718	304.88850	123.80125	3.08330	0.0484377	0.20371157	2.8606118	21	5 27.4	19.5
131278 2001 FQ_{70}	14.8	X	273.34286	251.56911	23.50887	11.93949	0.1182830	0.19183873	2.9774548	21	2 24.6	19.4
131279 2001 FC_{71}	15.2	X	341.53279	112.96447	156.98088	8.46159	0.1750343	0.19973290	2.8984756	21	5 11.3	18.5
131280 2001 FX_{82}	15.6	X	137.00509	324.36940	244.56257	7.23197	0.1240173	0.21589433	2.7519585	21	9 30.9	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131281 2001 FP_{92}	15.1	X	31.17155	217.85005	72.94017	8.02121	0.1118908	0.21238061	2.7822286	21	9 13.5	18.6
131282 2001 FW_{93}	15.2	X	180.62074	353.69167	114.29439	10.53785	0.1481671	0.21127418	2.7919337	21	7 11.9	19.7
131283 2001 FX_{96}	14.6	X	218.21491	218.56997	35.81127	15.40088	0.1736194	0.18147901	3.0897152	21	—	—
131284 2001 FH_{97}	14.9	X	101.05083	7.64358	102.73163	6.88689	0.0300421	0.19760173	2.9192787	21	4 10.8	19.0
131285 2001 FO_{104}	15.4	X	55.83097	227.46744	89.59499	5.67672	0.1365237	0.21951846	2.7215857	21	11 22.4	19.0
131286 2001 FP_{104}	15.5	X	53.56754	172.29447	86.70033	4.31841	0.0423096	0.21154429	2.7895566	21	8 21.5	19.2
131287 2001 FS_{106}	15.2	X	70.81044	242.03721	35.83806	5.55796	0.1984226	0.21555505	2.7548455	21	10 28.7	19.2
131288 2001 FT_{106}	16.0	X	180.79612	112.20248	8.10632	1.99768	0.1018685	0.21299916	2.7768396	21	7 28.7	20.2
131289 2001 FD_{107}	15.2	X	346.49432	281.79526	35.23995	4.85393	0.0627066	0.21106287	2.7937968	21	8 2.2	18.7
131290 2001 FL_{109}	15.8	X	341.75456	260.27352	332.17452	1.92462	0.1515382	0.19641813	2.9309945	21	3 20.9	19.2
131291 2001 FD_{111}	15.3	X	113.19120	6.01386	136.20831	2.80269	0.0230282	0.20411957	2.8567986	21	6 2.2	19.3
131292 2001 FD_{112}	14.5	X	33.45231	250.32266	60.04399	31.72099	0.1235800	0.21261408	2.7801914	21	10 26.1	18.5
131293 2001 FY_{112}	15.5	X	333.43120	358.22549	33.82687	6.52202	0.0388911	0.22071263	2.7117601	21	10 23.4	18.7
131294 2001 FM_{115}	15.7	X	67.00591	347.64842	220.47680	1.40201	0.0920723	0.20596733	2.8396871	21	7 7.9	19.3
131295 2001 FH_{121}	14.4	X	182.61399	263.66993	27.38758	25.83060	0.2275433	0.17933856	3.1142509	21	—	—
131296 2001 FK_{121}	15.3	X	201.02582	48.21988	245.23423	13.25983	0.1963066	0.23320853	2.6140051	21	—	—
131297 2001 FB_{125}	14.9	X	185.37280	148.30168	184.75675	10.49004	0.1193736	0.18883138	3.0089844	21	2 1.3	19.8
131298 2001 FJ_{125}	15.7	X	24.89005	321.81579	202.19671	5.92588	0.1696449	0.19596745	2.9354865	21	3 4.6	18.9
131299 2001 FE_{128}	14.9	X	61.42369	122.36771	63.45404	40.13389	0.1362350	0.20532646	2.8455929	21	6 1.4	18.5
131300 2001 FF_{131}	15.7	X	75.78880	107.22538	137.85782	4.16595	0.0386607	0.21261573	2.7801771	21	8 31.5	19.5
131301 2001 FG_{139}	15.3	X	82.87086	232.10705	214.61998	2.17619	0.1185324	0.19423433	2.9529225	21	2 24.6	19.2
131302 2001 FO_{143}	15.3	X	152.35676	333.22528	196.61405	12.58766	0.1058572	0.21102613	2.7941211	21	8 27.4	19.8
131303 2001 FV_{144}	15.2	X	183.39492	152.58068	124.40893	16.44274	0.1481620	0.22772757	2.6557813	21	—	—
131304 2001 FA_{145}	15.2	X	177.46653	158.89276	93.59431	15.15825	0.2198754	0.22360086	2.6883578	21	12 28.9	19.8
131305 2001 FF_{145}	14.6	X	195.84468	195.93705	89.01832	18.52892	0.1718699	0.18062054	3.0994975	21	—	—
131306 2001 FE_{152}	15.4	X	53.14149	123.74773	105.23686	5.66154	0.0720783	0.20849445	2.8166944	21	7 13.6	19.1
131307 2001 FD_{154}	14.8	X	132.17205	2.57564	101.55809	7.23411	0.0361085	0.20108181	2.8854985	21	5 11.4	18.9
131308 2001 FN_{154}	16.7	X	159.34831	127.98590	92.07681	4.06039	0.1522260	0.27007569	2.3703495	21	11 14.6	20.3
131309 2001 FH_{158}	15.7	X	103.00779	247.18499	339.87814	6.85099	0.1631221	0.21318609	2.7752161	21	9 23.6	19.9
131310 2001 FZ_{158}	15.5	X	269.91555	356.60836	163.28901	13.45357	0.0372558	0.23085608	2.6317331	21	—	—
131311 2001 FF_{159}	15.0	X	296.88802	27.15142	187.76197	11.63648	0.0607188	0.18898210	3.0073843	21	1 10.7	19.5
131312 2001 FR_{160}	15.7	X	191.40111	139.06237	147.81379	11.93423	0.1683126	0.23050366	2.6344148	21	—	—
131313 2001 FO_{171}	15.0	X	110.11589	92.40340	134.38505	16.28253	0.1623381	0.21268528	2.7795709	21	10 7.4	19.6
131314 2001 FW_{173}	15.3	X	341.60257	103.40730	23.00206	8.57809	0.2234788	0.18524806	3.0476629	21	—	—
131315 2001 FK_{177}	16.9	X	19.03858	220.20584	346.71919	1.16190	0.0432441	0.20149739	2.8815297	21	4 21.1	20.6
131316 2001 FE_{179}	14.7	X	205.28147	236.06883	82.74137	11.09953	0.0313821	0.19190986	2.9767192	21	2 7.1	19.1
131317 2001 FF_{180}	15.4	X	222.39396	225.28205	52.75722	13.54727	0.1370042	0.23627297	2.5913536	21	—	—
131318 2001 FL_{194}	7.8	X	35.10560	171.84808	2.18478	13.72357	0.1722079	0.00399662	39.3255025	21	4 28.9	23.2
131319 2001 GB_{5}	15.4	X	190.90469	147.49156	139.23422	14.06054	0.1715485	0.23023078	2.6364961	21	—	—
131320 2001 GJ_{8}	15.3	X	284.93701	153.79110	76.85843	9.92291	0.1502447	0.18667114	3.0321540	21	1 7.7	19.9
131321 2001 GW_{8}	15.1	X	357.52770	154.28024	36.06923	10.64678	0.0265751	0.19231043	2.9725842	21	3 8.5	19.2
131322 2001 GK_{9}	14.9	X	288.16153	85.78048	117.68360	10.00329	0.0856324	0.18442105	3.0567674	21	—	—
131323 2001 GE_{11}	15.2	X	38.35665	59.73813	189.50804	8.56878	0.2081831	0.20238004	2.8731454	21	8 4.6	18.5
131324 2001 HH_{7}	16.9	X	351.94395	141.50133	354.68818	20.83580	0.0705874	0.38101018	1.8844227	21	—	—
131325 2001 HW_{8}	15.0	X	249.50870	88.52864	187.13003	5.73812	0.1593021	0.18575661	3.0420980	21	1 24.1	20.0
131326 2001 HG_{18}	14.8	X	241.09653	50.25368	169.07132	27.22654	0.1318434	0.17813448	3.1282688	21	—	—
131327 2001 HC_{23}	15.2	X	50.96263	62.00295	31.56106	14.28695	0.0885395	0.18989219	2.9977678	21	1 19.9	19.2
131328 2001 HM_{23}	15.9	X	60.91570	84.20472	183.23766	4.53527	0.0217868	0.21259583	2.7803506	21	9 6.4	19.6
131329 2001 HP_{24}	15.2	X	78.81006	310.32298	56.84495	3.84431	0.1790180	0.17439359	3.1728463	21	—	—
131330 2001 HW_{26}	14.1	X	194.72394	59.67234	219.25226	21.99263	0.1061992	0.17862271	3.1225658	21	—	—
131331 2001 HC_{27}	14.5	X	237.28378	51.83324	203.68328	15.70849	0.1838382	0.18019105	3.1044207	21	—	—
131332 2001 HK_{30}	16.1	X	102.87067	76.96890	82.08599	26.98211	0.0530558	0.39585589	1.8370091	21	6 9.4	17.4
131333 2001 HZ_{31}	14.8	X	232.60092	203.98866	68.56087	18.18585	0.1723629	0.18093074	3.0959538	21	1 7.6	20.1
131334 2001 HD_{34}	15.4	X	243.15351	29.89981	228.59077	6.58505	0.2080463	0.18137543	3.0908914	21	—	—
131335 2001 HO_{34}	15.7	X	183.17162	13.14125	210.30030	1.68778	0.1692553	0.22017607	2.7161639	21	12 2.4	19.9
131336 2001 HP_{35}	14.6	X	219.01508	23.47429	237.61631	10.85574	0.1770578	0.17922449	3.1155722	21	—	—
131337 2001 HP_{37}	14.3	X	236.46895	208.89266	58.24859	11.74158	0.0204651	0.18325849	3.0696815	21	1 11.9	18.8
131338 2001 HU_{41}	14.7	X	137.70783	316.12975	34.96119	9.86939	0.0591351	0.18473060	3.0533516	21	1 2.3	19.2
131339 2001 HZ_{42}	15.5	X	243.60308	73.25445	196.58621	10.67044	0.1260498	0.18553630	3.0445057	21	1 13.4	20.5
131340 2001 HW_{44}	14.6	X	237.26377	312.51921	21.20830	14.94479	0.1978159	0.19260061	2.9695977	21	3 23.4	19.6
131341 2001 HN_{47}	14.8	X	265.46405	254.78808	22.11548	11.48417	0.0630602	0.19029808	2.9935036	21	2 24.2	19.3
131342 2001 HG_{49}	15.1	X	165.73370	21.05702	241.99090	10.86310	0.1494301	0.22309200	2.6924442	21	—	—
131343 2001 HX_{53}	15.0	X	259.61483	132.08083	118.10202	16.68695	0.0960500	0.18471961	3.0534727	21	1 10.2	19.6
131344 2001 HK_{54}	14.7	X	187.22980	95.02310	193.27703	12.53487	0.1446281	0.18005894	3.1059390	21	—	—
131345 2001 HY_{55}	15.0	X	271.42449	119.17246	97.44294	10.42338	0.1281951	0.18194371	3.0844520	21	—	—
131346 2001 HU_{56}	15.1	X	252.15528	213.43460	5.90398	6.17463	0.1115124	0.18012102	3.1052253	21	—	—
131347 2001 HE_{58}	14.9	X	176.10967	40.43562	98.40597	9.96079	0.0991545	0.21194181	2.7860674	21	8 18.5	19.2
131348 2001 HB_{59}	15.1	X	108.12330	19.80150	255.52850	13.57087	0.3272259	0.21626108	2.7488464	21	12 6.5	20.1
131349 2001 HN_{59}	15.5	X	262.54353	103.15291	186.36150	4.79881	0.1944299	0.18881732	3.0091338	21	2 17.7	20.3
131350 2001 HC_{64}	14.8	X	260.55618	183.25940	44.86757	12.49480	0.0475292	0.18252416	3.0779093	21	—	—
131351 2001 JE	14.8	X	27.22496	89.65194	236.28157	7.97646	0.1608740	0.21125617	2.7920924	21	10 25.7	18.1
131352 2001 JA_{1}	14.7	X	161.57863	92.18271	219.82432	4.23332	0.1489710	0.17655191	3.1469349	21	—	—
131353 2001 JE_{2}	14.2	X	105.11133	269.02127	90.40905	16.63722	0.1063720	0.17543979	3.1602199	21	—	—
131354 2001 JJ_{2}	15.3	X	163.24499	161.87146	181.90990	9.36004	0.0535725	0.18170412	3.0871628	21	1 19.8	20.0
131355 2001 JV_{3}	14.4	X	142.28522	307.52297	64.84894	10.71264	0.1024501	0.18349194	3.0670774	21	2 10.1	19.1
131356 2001 JB_{4}	15.0	X	277.46358	266.35401	65.19856	12.84971	0.0564900	0.19684019	2.9268033	21	5 14.3	19.1
131357 2001 JM_{8}	14.7	X	323.90026	304.17131	41.17141	9.65082	0.2463402	0.20297957	2.8674851	21	7 13.9	17.8
131358 2001 KA_{2}	15.3	X	240.19679	246.55730	118.15037	9.41529	0.0692323	0.19654980	2.9296854	21	5 12.0	19.7
131359 2001 KJ_{2}	15.2	X	48.58033	186.77227	95.49951	9.74346	0.1188082	0.20927828	2.8096569	21	9 29.5	19.0
131360 2001 KN_{4}	14.9	X	292.16311	291.56186	237.13102	15.01531	0.2135913	0.18010817	3.1053730	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131361 2001 KN_5	14.7	X	215.67673	227.53916	45.80387	17.80361	0.1754571	0.17911042	3.1168948	21	—	—
131362 2001 KO_5	15.2	X	239.57731	145.61086	136.81880	0.83113	0.2586569	0.18201080	3.0836940	21	1 20.7	20.6
131363 2001 KF_7	14.3	X	170.56260	36.67013	242.93903	15.52878	0.1959132	0.17257321	3.1951196	21	—	—
131364 2001 KR_7	15.0	X	260.79208	262.46984	78.07313	10.49940	0.0924156	0.19593610	2.9357996	21	5 2.6	19.3
131365 2001 KN_{11}	14.6	X	169.32216	90.91367	233.29889	14.43595	0.1006484	0.17910820	3.1169206	21	1 6.6	19.6
131366 2001 KE_{16}	15.0	X	219.38919	106.63531	96.60320	8.49523	0.1757934	0.17399523	3.1776873	21	12 5.6	19.9
131367 2001 KS_{16}	14.7	X	231.75005	0.65348	220.16246	13.73633	0.1293207	0.17581671	3.1557017	21	—	—
131368 2001 KR_{18}	14.3	X	108.22986	152.79216	201.66258	10.59774	0.2077474	0.17234488	3.1979410	21	—	—
131369 2001 KX_{18}	16.8	X	2.67843	261.99608	227.69640	20.01485	0.0977071	0.37835310	1.8932350	21	—	—
131370 2001 KF_{22}	15.2	X	78.56380	297.01650	58.51027	13.47778	0.1952079	0.21959692	2.7209374	21	—	—
131371 2001 KJ_{25}	15.0	X	218.87524	257.88817	41.53189	10.11643	0.1872944	0.18238093	3.0795205	21	1 29.3	20.3
131372 2001 KR_{26}	14.7	X	246.43361	36.54824	245.34775	10.08988	0.1110810	0.18403563	3.0610337	21	1 29.6	19.6
131373 2001 KS_{26}	14.6	X	264.38091	115.32542	242.43739	9.72619	0.2117439	0.19544509	2.9407146	21	5 10.5	19.1
131374 2001 KG_{29}	15.3	X	333.47791	153.00128	41.45160	1.58753	0.1556016	0.18893416	3.0078930	21	1 20.6	19.1
131375 2001 KL_{30}	14.7	X	212.35002	104.50652	236.40390	8.90780	0.2549573	0.18535610	3.0464785	21	3 4.2	20.3
131376 2001 KX_{31}	14.2	X	157.71430	236.39824	62.64157	27.71711	0.2303336	0.17514004	3.1638248	21	—	—
131377 2001 KQ_{33}	14.5	X	226.79498	131.62281	72.80677	10.52299	0.0523496	0.17444143	3.1722662	21	12 27.8	19.1
131378 2001 KP_{35}	15.0	X	254.81201	61.00913	190.53916	4.28689	0.1955939	0.18145068	3.0900368	21	—	—
131379 2001 KT_{38}	14.7	X	226.94035	185.48114	81.46757	18.88838	0.1623254	0.17970401	3.1100273	21	—	—
131380 2001 KL_{39}	15.2	X	240.65926	128.53143	155.62158	11.94659	0.1942301	0.18254232	3.0777051	21	1 25.0	20.5
131381 2001 KU_{39}	13.9	X	194.85268	81.59114	211.90744	18.90273	0.1389323	0.17702048	3.1413792	21	—	—
131382 2001 KY_{39}	14.0	X	237.13442	145.05890	215.76034	18.58507	0.2940496	0.18922867	3.0047713	21	4 14.5	19.4
131383 2001 KJ_{40}	14.8	X	304.44425	25.22318	191.36680	11.41255	0.2577729	0.18464195	3.0543288	21	—	—
131384 2001 KC_{41}	16.5	X	326.72292	64.97298	84.09998	24.14170	0.0199442	0.37544665	1.9029932	21	—	—
131385 2001 KE_{41}	14.7	X	209.23984	221.23856	97.69688	18.18273	0.1807665	0.18361698	3.0656847	21	2 12.9	20.0
131386 2001 KR_{42}	14.7	X	235.30752	134.36858	100.34464	13.47592	0.1055210	0.17912511	3.1167244	21	—	—
131387 2001 KN_{49}	14.0	X	166.63511	103.83459	249.33075	19.80122	0.2828949	0.17925149	3.1152593	21	2 11.1	19.8
131388 2001 KQ_{52}	14.8	X	202.13583	189.81893	33.18940	29.65527	0.0649666	0.22346468	2.6894499	21	12 28.3	19.2
131389 2001 KG_{53}	14.8	X	202.34686	284.54399	71.49894	11.39781	0.1252250	0.18906982	3.0064541	21	3 24.1	19.8
131390 2001 KN_{55}	15.2	X	75.66420	221.04554	75.58094	17.44600	0.2449332	0.21239264	2.7821235	21	11 30.8	19.6
131391 2001 KR_{55}	14.3	X	306.22462	52.77252	101.02373	17.24206	0.0470076	0.17803150	3.1294750	21	—	—
131392 2001 KS_{55}	14.7	X	221.46902	75.63489	191.80341	9.79215	0.0683449	0.17904201	3.1176888	21	—	—
131393 2001 KS_{56}	15.0	X	137.59025	193.19147	94.74356	11.29997	0.1365758	0.22169235	2.7037648	21	—	—
131394 2001 KC_{60}	14.6	X	253.96669	135.85083	166.76256	10.14929	0.2654878	0.18203150	3.0834602	21	2 21.6	19.9
131395 2001 KS_{61}	14.6	X	223.04475	50.17681	193.03510	20.08544	0.2199519	0.17787870	3.1312668	21	—	—
131396 2001 KK_{62}	14.6	X	34.05425	260.98227	193.95501	9.09339	0.0580995	0.18320200	3.0703124	21	—	—
131397 2001 KX_{62}	15.0	X	228.16007	72.27929	176.42849	13.95972	0.1651137	0.17795891	3.1303259	21	—	—
131398 2001 KZ_{64}	14.9	X	245.29380	81.71853	146.53065	17.23191	0.1208679	0.17951975	3.1121550	21	—	—
131399 2001 KN_{65}	15.0	X	279.30483	71.57513	116.06328	12.23770	0.1630420	0.18133613	3.0913379	21	—	—
131400 2001 KT_{74}	14.0	X	195.10740	68.87065	260.02515	21.79518	0.2518050	0.17626610	3.1503358	21	2 2.8	19.9
131401 2001 LY	14.6	X	193.70752	235.57822	93.39048	12.72718	0.2007203	0.18064402	3.0992289	21	2 12.1	20.0
131402 2001 LP_3	14.3	X	220.77983	72.95059	258.63306	9.26723	0.3567931	0.18275326	3.0753364	21	2 25.2	20.2
131403 2001 LS_3	14.9	X	30.90482	341.71800	273.78402	10.04984	0.2893128	0.19897823	2.9057997	21	8 11.1	18.0
131404 2001 LZ_4	15.1	X	235.18449	60.54576	202.20597	8.66067	0.0872227	0.18035644	3.1025225	21	—	—
131405 2001 LB_8	15.0	X	201.50927	308.24710	332.11093	3.26978	0.0912850	0.17358822	3.1826525	21	—	—
131406 2001 LB_{12}	14.1	X	186.67043	55.79581	269.60712	15.97821	0.1139590	0.17665058	3.1457631	21	1 24.4	19.3
131407 2001 LR_{18}	15.1	X	278.20392	354.31562	246.99291	10.20917	0.1722756	0.18013208	3.1050981	21	1 10.2	20.0
131408 2001 MN_3	13.8	X	175.62103	76.18648	194.07080	32.21811	0.1069513	0.17149465	3.2085021	21	—	—
131409 2001 MX_5	14.6	X	340.95221	231.97038	85.41823	15.50482	0.2851602	0.19656225	2.9295616	21	7 4.2	17.1
131410 2001 MN_8	14.2	X	239.96338	176.81008	112.86784	28.44633	0.2366963	0.17985648	3.1082695	21	1 30.6	19.6
131411 2001 MN_9	16.6	X	137.11902	98.53176	146.87998	24.48031	0.0602272	0.35470080	1.9764899	21	12 13.8	19.6
131412 2001 MP_{16}	14.5	X	90.76621	284.37480	77.87457	9.40576	0.0541153	0.16839669	3.2477332	21	—	—
131413 2001 NT	16.1	X	162.91807	18.54339	207.20348	20.82520	0.0362234	0.35507144	1.9751143	21	12 15.2	18.7
131414 2001 NB_6	14.8	X	185.01098	182.87261	144.78096	19.65268	0.0692453	0.17686084	3.1432693	21	1 26.9	19.6
131415 2001 NA_{19}	16.7	X	209.22478	113.78142	161.05070	22.63522	0.0499807	0.36910919	1.9247137	21	—	—
131416 2001 OA	15.3	X	270.62325	143.92124	110.22004	2.69931	0.2935010	0.18130262	3.0917189	21	1 9.7	20.5
131417 2001 OC_5	14.1	X	289.09315	43.74896	301.84036	21.74060	0.3293897	0.18996050	2.9970490	21	4 29.3	19.1
131418 2001 OO_5	14.1	X	289.52416	333.67541	301.45732	21.89995	0.0795206	0.18156796	3.0887060	21	3 4.6	18.9
131419 2001 OH_{13}	16.5	X	176.07957	312.44661	135.52341	25.23287	0.0678125	0.38679051	1.8656013	21	6 11.9	19.2
131420 2001 OO_{45}	17.0	X	225.32403	104.82948	149.28203	23.94319	0.1048418	0.37034045	1.9204453	21	—	—
131421 2001 OL_{58}	14.2	X	155.02119	211.32221	147.08533	3.76054	0.1545056	0.12358378	3.9917352	21	2 15.3	20.2
131422 2001 OU_{71}	14.8	X	144.63783	220.24669	121.99662	18.90353	0.1927887	0.17180494	3.2046379	21	1 15.6	19.9
131423 2001 OF_{77}	14.6	X	257.33615	308.86738	4.94515	18.13200	0.2304935	0.17968096	3.1102933	21	3 15.2	19.8
131424 2001 OZ_{79}	15.4	X	209.34294	89.60523	190.68140	0.89147	0.1645098	0.17285389	3.1916599	21	—	—
131425 2001 OK_{81}	14.2	X	233.06939	0.61326	323.20917	18.92948	0.2775750	0.17842982	3.1248158	21	2 27.2	19.8
131426 2001 OX_{93}	15.0	X	226.93959	181.25031	110.58563	10.71238	0.1455714	0.17767709	3.1336352	21	1 26.4	20.0
131427 2001 OW_{98}	13.9	X	183.53146	62.41883	314.93006	14.73578	0.2079228	0.17600448	3.1534569	21	3 21.9	19.5
131428 2001 OO_{100}	15.0	X	184.18263	203.07677	91.21351	6.57974	0.1445378	0.17071630	3.2182471	21	—	—
131429 2001 OH_{101}	13.0	X	148.96331	165.51478	291.76612	22.33926	0.1356785	0.18590805	3.0404457	21	5 28.7	18.1
131430 2001 OX_{102}	13.9	X	190.54961	122.16232	247.24147	7.72320	0.2402562	0.17664537	3.1458248	21	3 22.3	19.5
131431 2001 PL_4	16.3	X	163.56864	141.91886	275.67078	19.58939	0.0828605	0.38005222	1.8875880	21	3 19.9	19.0
131432 2001 PX_{39}	15.1	X	310.03556	318.97312	284.55806	7.79942	0.2093567	0.18035516	3.1025373	21	2 10.3	19.5
131433 2001 PB_{40}	14.7	X	196.21170	105.40614	282.17633	8.93965	0.0917067	0.18110728	3.0939416	21	4 15.9	19.7
131434 2001 PX_{40}	14.7	X	233.40963	49.80203	291.32932	8.91688	0.0758580	0.18068238	3.0987903	21	3 28.9	19.5
131435 2001 PD_{42}	14.8	X	261.67025	242.15662	44.56944	8.72538	0.1774075	0.18275376	3.0753308	21	2 20.9	19.8
131436 2001 QS_{11}	15.0	X	238.64946	242.43720	109.11748	2.08988	0.1735940	0.18395458	3.0619328	21	4 14.2	20.0
131437 2001 QX_{37}	14.7	X	182.25515	165.89601	126.56464	8.06251	0.1379224	0.17072581	3.2181276	21	—	—
131438 2001 QS_{60}	14.6	X	179.18136	120.36181	210.20387	11.18874	0.3159456	0.17383156	3.1796815	21	2 1.3	20.6
131439 2001 QK_{68}	16.4	X	109.20498	169.88671	177.12800	22.85825	0.0770761	0.36369290	1.9437758	21	—	—
131440 2001 QB_{71}	14.3	X	262.64817	56.69343	298.87771	5.18897	0.2284595	0.18648147	3.0342097	21	5 3.5	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131441 2001 QS_{82}	15.0	X	69.57217	130.59891	329.20124	22.77967	0.2749940	0.26802159	2.3824449	21	2 25.2	16.7
131442 2001 QX_{86}	13.9	X	196.86078	45.86154	307.08768	15.71603	0.0989411	0.17668177	3.1453928	21	3 4.2	19.0
131443 2001 QH_{88}	15.3	X	149.98503	126.40884	148.87007	1.94719	0.1642732	0.16368636	3.3097438	21	12 26.0	20.7
131444 2001 QA_{91}	16.2	X	353.38699	131.42146	254.38723	18.73072	0.0792351	0.35235091	1.9852679	21	12 16.3	17.8
131445 2001 QG_{94}	16.7	X	210.22283	123.01866	189.91959	22.01998	0.1161751	0.37485282	1.9050024	21	—	—
131446 2001 QP_{100}	15.1	X	202.23468	148.37257	158.33620	17.58028	0.1917004	0.17457318	3.1706699	21	1 21.3	20.6
131447 2001 QZ_{113}	11.9	X	288.27665	315.09293	33.23575	33.82089	0.0400248	0.08246747	5.2273421	21	6 15.4	19.1
131448 2001 QD_{128}	14.8	X	342.19064	14.16615	271.28529	7.97977	0.0683693	0.19109681	2.9851564	21	6 10.7	18.6
131449 2001 QL_{134}	14.5	X	267.30791	28.65065	265.06720	10.18465	0.1497203	0.17903300	3.1177934	21	2 28.6	19.5
131450 2001 QH_{151}	16.2	X	31.07944	183.17943	289.21391	19.79987	0.0615985	0.36629456	1.9345609	21	—	—
131451 2001 QD_{174}	12.5	X	290.25956	335.13334	8.53746	27.25742	0.0774073	0.08566457	5.0964592	21	6 9.9	19.6
131452 2001 QV_{186}	15.2	X	268.07267	132.55450	168.35954	10.09100	0.0636493	0.18058321	3.0999246	21	3 25.7	19.7
131453 2001 QR_{189}	14.2	X	268.43112	333.96222	283.52214	18.05431	0.2195557	0.17678238	3.1441992	21	1 16.2	19.3
131454 2001 QE_{190}	15.2	X	203.22669	106.39986	284.49162	18.63173	0.2678711	0.18100432	3.0951147	21	4 21.4	21.1
131455 2001 QG_{190}	14.3	X	177.46716	127.98851	267.56777	15.47016	0.2219191	0.17837756	3.1254261	21	4 8.6	19.9
131456 2001 QF_{191}	17.0	X	46.40711	165.34278	215.70042	20.31172	0.0912246	0.35788825	1.9647370	21	—	—
131457 2001 QJ_{191}	16.2	X	60.87022	135.27544	215.94403	20.28048	0.0816999	0.35639935	1.9702051	21	—	—
131458 2001 QA_{194}	14.4	X	124.97302	143.99602	259.55689	11.10913	0.1488109	0.17106257	3.2139027	21	2 26.3	19.4
131459 2001 QC_{194}	14.5	X	236.61648	345.38190	299.20881	14.02356	0.1852284	0.17318319	3.1876128	21	1 24.4	19.9
131460 2001 QE_{194}	12.6	X	284.31087	1.32255	340.58811	27.76266	0.0618717	0.08530839	5.1106351	21	6 4.4	19.8
131461 2001 QF_{221}	14.5	X	210.96439	79.22848	293.37931	10.54801	0.1322700	0.18373151	3.0644105	21	4 9.9	19.6
131462 2001 QL_{227}	15.3	X	260.34806	119.81117	224.38017	9.36750	0.1263054	0.18548759	3.0450387	21	4 29.9	19.8
131463 2001 QT_{286}	15.1	X	282.73348	127.48457	218.92646	10.77904	0.1412619	0.18947489	3.0021677	21	5 27.5	19.3
131464 2001 QK_{289}	14.2	X	145.47221	201.26909	124.85197	23.07352	0.0678725	0.16901085	3.2398606	21	—	—
131465 2001 QU_{290}	16.9	X	84.84541	143.99453	181.13245	22.83918	0.0849930	0.35827059	1.9633389	21	—	—
131466 2001 QU_{326}	14.5	X	164.56371	265.29568	125.73428	22.53308	0.0711490	0.17860787	3.1227388	21	3 29.2	19.6
131467 2001 RZ_{5}	16.9	X	290.68988	2.23666	283.26226	19.10755	0.0633183	0.37939548	1.8897656	21	2 20.0	19.4
131468 2001 RM_{7}	14.5	X	204.55915	346.58050	340.71494	6.66418	0.2061145	0.12636936	3.9328573	21	2 21.6	21.0
131469 2001 RR_{9}	16.1	X	36.75077	221.45151	235.37000	19.60481	0.1012096	0.36910396	1.9247319	21	—	—
131470 2001 RN_{46}	16.3	X	29.93616	215.12933	285.73440	19.23094	0.0747226	0.37052427	1.9198101	21	—	—
131471 2001 RY_{46}	16.2	X	127.07987	261.37719	39.05237	21.78478	0.0542964	0.35940565	1.9592031	21	—	—
131472 2001 RV_{67}	14.3	X	271.10589	85.65683	202.26107	15.69268	0.2075381	0.17847536	3.1242842	21	2 20.9	19.5
131473 2001 RQ_{73}	15.7	X	20.09487	357.03090	210.32407	12.61310	0.0350356	0.23004163	2.6379410	21	4 20.4	18.9
131474 2001 RA_{82}	14.7	X	227.00978	47.59187	320.57194	9.81877	0.1155493	0.18314520	3.0709473	21	4 21.5	19.7
131475 2001 RL_{82}	14.3	X	195.03410	108.40019	292.19821	8.95134	0.1047050	0.18195709	3.0843008	21	5 1.1	19.3
131476 2001 RB_{92}	15.5	X	277.03431	273.84506	12.26541	4.74805	0.2779703	0.18087836	3.0965515	21	2 22.5	20.6
131477 2001 RN_{93}	14.9	X	209.61546	216.98508	107.91440	2.30795	0.1515073	0.17424282	3.1746763	21	2 18.5	20.0
131478 2001 RV_{95}	17.1	X	336.41925	272.56265	142.64999	2.05619	0.1213289	0.30092735	2.2054384	21	12 22.3	18.8
131479 2001 RG_{99}	17.5	X	4.06486	257.63575	159.40497	4.84044	0.2039622	0.30663908	2.1779658	21	—	—
131480 2001 RY_{101}	14.4	X	25.36938	216.01335	147.91976	16.94948	0.0973581	0.15492262	3.4334139	21	11 26.4	19.3
131481 2001 RT_{111}	14.4	X	198.45744	254.08192	72.69647	0.51682	0.1363660	0.12435610	3.9751909	21	2 16.7	20.5
131482 2001 SF_{30}	17.7	X	104.21179	335.07885	66.19027	0.69765	0.1122155	0.31712004	2.1297089	21	—	—
131483 2001 SS_{34}	14.9	X	211.39908	190.59725	136.76762	2.28229	0.1350459	0.17422978	3.1748347	21	2 22.7	20.0
131484 2001 SU_{38}	14.7	X	206.48426	284.64728	22.38828	14.48224	0.2235642	0.17123147	3.2117889	21	1 31.6	20.4
131485 2001 SO_{68}	14.8	X	216.67170	161.05197	196.00479	17.23768	0.2200041	0.17687979	3.1430449	21	3 30.2	20.1
131486 2001 SZ_{78}	17.1	X	206.86268	133.43939	160.57365	22.17778	0.0699672	0.37259357	1.9126954	21	—	—
131487 2001 SS_{90}	16.7	X	184.68057	250.22665	186.30391	4.17768	0.1561320	0.28371359	2.2937669	21	6 4.8	20.3
131488 2001 SL_{94}	16.3	X	200.93866	134.14928	321.83825	6.85555	0.1165642	0.28820994	2.2698478	21	7 19.6	19.5
131489 2001 SA_{159}	16.4	X	309.70320	233.29568	218.22660	4.78730	0.1327529	0.30055853	2.2072423	21	12 25.7	18.1
131490 2001 SJ_{164}	14.7	X	189.44653	320.41276	21.21542	19.67915	0.2286318	0.17231917	3.1982591	21	3 2.3	20.4
131491 2001 SW_{178}	16.7	X	234.04572	212.37330	169.01332	5.77951	0.1501312	0.28084204	2.3093759	21	5 13.2	20.2
131492 2001 SP_{181}	14.7	X	145.76271	307.19650	141.55039	7.59707	0.1953594	0.18236815	3.0796644	21	5 21.9	19.8
131493 2001 SP_{185}	15.7	X	291.51951	149.54632	126.17188	2.38978	0.1759080	0.18236662	3.0796816	21	3 6.9	20.3
131494 2001 ST_{227}	17.5	X	60.98867	9.79859	28.43598	1.77172	0.0852174	0.31063858	2.1592311	21	—	—
131495 2001 SW_{236}	17.2	X	332.78331	42.88124	28.16372	4.51628	0.0935203	0.30320456	2.1943820	21	—	—
131496 2001 SM_{239}	16.6	X	347.28353	197.48998	121.29282	5.04616	0.1429136	0.29075704	2.2565722	21	8 7.8	18.1
131497 2001 SQ_{248}	17.2	X	353.50027	218.34759	184.68016	4.83621	0.1780463	0.30065477	2.2067713	21	—	—
131498 2001 ST_{260}	16.8	X	175.52866	82.85277	337.96643	3.47978	0.0995414	0.27875562	2.3208850	21	5 1.7	20.1
131499 2001 SU_{266}	16.3	X	283.01797	34.71620	51.00175	6.72934	0.1167435	0.29438186	2.2380100	21	10 26.2	18.3
131500 2001 SK_{270}	13.9	X	218.74559	195.73222	139.48941	15.79500	0.1890104	0.17670949	3.1450638	21	3 10.9	19.2
131501 2001 SX_{272}	14.4	X	241.83897	285.82518	68.07523	23.00618	0.1860611	0.18178280	3.0862720	21	4 26.9	19.6
131502 2001 SW_{273}	14.3	X	268.17760	265.77106	11.55475	2.77362	0.1681491	0.12572902	3.9461994	21	2 21.3	20.2
131503 2001 SS_{279}	16.6	X	287.89191	45.72516	21.03274	5.12908	0.1671507	0.29320540	2.2439925	21	9 27.0	18.5
131504 2001 SX_{280}	16.8	X	357.91235	199.51296	196.64745	2.91610	0.1400410	0.30057894	2.2071424	21	—	—
131505 2001 SK_{283}	16.5	X	204.83087	357.94156	86.53182	3.99010	0.1907218	0.28146749	2.3059536	21	7 3.6	20.2
131506 2001 SP_{288}	14.7	X	216.70965	82.50887	241.12824	8.58351	0.0777478	0.17396265	3.1780841	21	2 20.5	19.7
131507 2001 SC_{305}	18.1	X	60.17525	97.89645	307.08410	0.59159	0.1173751	0.31124084	2.1564447	21	—	—
131508 2001 SE_{318}	16.5	X	129.08783	129.65857	11.51192	5.88862	0.0719686	0.28276200	2.2989102	21	6 25.7	19.5
131509 2001 TK_{11}	16.1	X	249.41556	61.99692	1.12043	2.24586	0.2300444	0.23709054	2.5853930	21	7 15.6	19.9
131510 2001 TV_{33}	16.6	X	57.22388	60.57130	331.98538	4.96260	0.1771517	0.30681820	2.1771180	21	—	—
131511 2001 TL_{43}	15.9	X	6.16717	346.30885	22.28416	8.46557	0.1638620	0.29302806	2.2448978	21	12 8.5	18.2
131512 2001 TS_{46}	15.6	X	174.30745	65.44815	52.22268	21.92121	0.2733958	0.27596062	2.3365297	21	7 22.9	20.2
131513 2001 TD_{69}	17.6	X	67.81484	26.51196	15.84082	1.44287	0.1419171	0.31142599	2.1555899	21	—	—
131514 2001 TU_{79}	16.6	X	67.58021	231.56688	178.52904	2.49434	0.0985621	0.31072950	2.1588098	21	—	—
131515 2001 TO_{96}	16.6	X	264.49387	190.17168	246.26075	4.20540	0.0990309	0.29191719	2.2505894	21	9 10.4	19.3
131516 2001 TH_{117}	15.8	X	352.23850	136.30262	290.30133	5.03413	0.1010021	0.29852680	2.2172458	21	—	—
131517 2001 TN_{120}	14.5	X	208.09746	35.55892	308.34970	10.69981	0.2534916	0.17617082	3.1514716	21	3 5.3	20.2
131518 2001 TW_{120}	14.3	X	191.53370	110.86024	247.62452	16.43664	0.1513814	0.17379036	3.1801841	21	3 5.7	19.9
131519 2001 TL_{191}	16.7	X	242.56685	280.69410	249.52727	4.63835	0.0788495	0.30042871	2.2078781	21	12 29.2	19.1
131520 2001 TW_{192}	16.0	X	354.18377	104.51135	348.54102	7.24499	0.0866916	0.30273556	2.1966478	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131521 2001 TJ_{193}	15.9	X	11.40532	72.98521	311.81108	5.34409	0.1822935	0.29731458	2.2232685	21	—	—
131522 2001 TW_{196}	14.3	X	252.88793	272.22226	52.30347	27.06062	0.1663149	0.18038014	3.1022508	21	4 8.7	19.5
131523 2001 TY_{199}	14.6	X	194.59108	204.04100	107.12152	9.47388	0.0981428	0.16973711	3.2306124	21	1 20.4	19.6
131524 2001 TD_{236}	16.7	X	170.47926	269.67271	124.59252	6.70347	0.1321890	0.27377008	2.3489768	21	3 28.9	20.2
131525 2001 UZ_{41}	17.1	X	75.49838	345.46111	56.34689	4.35492	0.1191347	0.31163484	2.1546267	21	—	—
131526 2001 UJ_{46}	17.3	X	51.95922	304.67105	147.12150	2.66199	0.1572208	0.31317696	2.1475478	21	—	—
131527 2001 UQ_{52}	17.1	X	163.19605	241.87965	95.67572	1.97685	0.1259013	0.31604245	2.1345472	21	—	—
131528 2001 UT_{52}	16.7	X	114.33290	142.23021	187.89905	5.71424	0.0537114	0.30739605	2.1743887	21	—	—
131529 2001 UE_{73}	15.7	X	182.22713	198.62743	143.92913	0.85271	0.2158453	0.17157463	3.2075049	21	2 17.1	21.0
131530 2001 UO_{79}	16.6	X	258.45071	329.28186	204.68183	2.38235	0.0677911	0.30449230	2.1881907	21	—	—
131531 2001 UL_{81}	16.5	X	344.32209	36.86598	77.77551	2.56819	0.1095668	0.30700936	2.1762142	21	—	—
131532 2001 UK_{95}	17.1	X	315.91524	72.21247	12.15691	6.94629	0.0900286	0.29945516	2.2126608	21	12 26.1	19.2
131533 2001 UV_{103}	17.8	X	56.04647	216.19339	184.61084	5.51569	0.1238298	0.30919448	2.1659490	21	—	—
131534 2001 UQ_{104}	16.9	X	104.97713	42.76025	91.32751	3.15862	0.1429252	0.27690366	2.3312217	21	5 25.4	19.9
131535 2001 UU_{111}	16.8	X	216.45850	69.84577	15.30996	3.94944	0.0803377	0.28639180	2.2794444	21	7 25.8	19.8
131536 2001 UW_{112}	16.3	X	316.17641	186.90537	271.60803	3.55490	0.0688331	0.30067530	2.2066708	21	—	—
131537 2001 UV_{115}	17.6	X	85.61088	201.06571	189.12835	1.80395	0.0866138	0.31084388	2.1582802	21	—	—
131538 2001 UH_{123}	15.9	X	296.16161	205.61472	211.39993	4.69950	0.0704909	0.29169351	2.2517398	21	10 8.9	18.2
131539 2001 US_{133}	13.2	X	268.34529	120.33399	229.25552	1.57750	0.0915852	0.08315902	5.1983216	21	5 25.7	20.2
131540 2001 UX_{150}	17.3	X	298.03564	261.43870	162.64117	1.92273	0.1863497	0.29313437	2.2443550	21	10 9.9	19.0
131541 2001 UE_{153}	17.3	X	155.79165	312.42088	67.42580	1.39124	0.1443980	0.31881305	2.1221626	21	2 14.4	20.0
131542 2001 UH_{153}	16.7	X	164.89930	248.49517	221.08405	4.52646	0.1355381	0.27938839	2.3173794	21	6 27.9	20.1
131543 2001 UZ_{163}	17.2	X	1.94012	201.35368	175.17288	6.34765	0.1767155	0.29859190	2.2169235	21	12 18.4	19.3
131544 2001 UD_{177}	15.2	X	243.42617	109.28444	211.59008	14.24132	0.2544689	0.17817560	3.1277874	21	3 4.4	20.8
131545 2001 UK_{209}	16.8	X	263.92092	157.18370	316.21958	3.84839	0.1211511	0.29796465	2.2200336	21	11 1.0	19.3
131546 2001 VJ_{3}	13.5	X	2.92995	264.65061	21.66838	4.28813	0.0354722	0.08231676	5.2337207	21	7 13.3	20.3
131547 2001 VD_{12}	16.4	X	10.61581	11.71996	3.02694	8.52252	0.1389148	0.29812121	2.2192563	21	12 23.7	18.8
131548 2001 VF_{17}	16.9	X	150.49104	60.24419	33.86452	2.51241	0.1621983	0.27541587	2.3396097	21	5 24.7	20.5
131549 2001 VJ_{21}	16.8	X	170.35570	190.73071	285.41692	1.65198	0.1901362	0.28082794	2.3094533	21	7 13.6	20.5
131550 2001 VX_{21}	16.5	X	228.83285	97.07969	44.59956	5.57336	0.0826761	0.29372130	2.2413642	21	10 29.3	19.2
131551 2001 VX_{23}	16.4	X	253.31819	228.53803	252.61978	4.19359	0.0837096	0.29406152	2.2396350	21	11 2.3	18.7
131552 2001 VG_{27}	16.7	X	334.22251	190.72498	244.17327	1.86864	0.0969108	0.29925730	2.2136360	21	—	—
131553 2001 VN_{29}	16.8	X	220.79724	18.93480	69.79776	7.81413	0.1669487	0.28437111	2.2902298	21	7 28.4	20.2
131554 2001 VK_{31}	16.6	X	17.37512	351.76754	95.02758	2.67442	0.1272372	0.30612914	2.1803837	21	—	—
131555 2001 VS_{32}	16.7	X	339.50630	8.55085	33.74610	3.69196	0.1284401	0.29584087	2.2306457	21	12 6.8	18.5
131556 2001 VP_{33}	16.9	X	11.74292	190.10787	202.19727	2.84549	0.1875443	0.29979628	2.2109821	21	—	—
131557 2001 VS_{34}	16.7	X	230.57780	247.89718	214.11636	3.44866	0.1546945	0.28650615	2.2788378	21	8 24.5	19.7
131558 2001 VB_{36}	16.4	X	26.08468	183.47207	210.22358	3.99056	0.1324533	0.30127192	2.2037565	21	—	—
131559 2001 VU_{37}	15.9	X	190.83199	49.99278	76.44187	22.02441	0.1646219	0.28321572	2.2964543	21	8 24.8	20.0
131560 2001 VT_{41}	16.6	X	207.85586	158.24896	41.37674	5.04958	0.0918106	0.29821780	2.2187771	21	12 19.2	19.4
131561 2001 VN_{42}	16.4	X	276.68510	78.75650	52.15133	3.52588	0.0546426	0.29741031	2.2227914	21	12 28.6	18.7
131562 2001 VR_{42}	16.5	X	109.14817	33.89978	317.69194	1.35027	0.2273543	0.30896913	2.1670021	21	—	—
131563 2001 VY_{44}	16.0	X	289.78498	346.19304	58.57750	4.75158	0.1471293	0.28833886	2.2691712	21	8 31.5	18.3
131564 2001 VR_{45}	16.1	X	300.47047	1.83338	68.95930	7.33661	0.1253196	0.29244161	2.2478980	21	11 4.1	18.0
131565 2001 VX_{48}	16.0	X	258.06211	311.29351	105.73908	4.22255	0.1629774	0.28376379	2.2934964	21	7 26.7	18.8
131566 2001 VM_{52}	16.5	X	255.67341	87.38768	17.26228	7.72737	0.0556086	0.29414754	2.2391984	21	10 17.9	19.0
131567 2001 VG_{60}	17.1	X	235.63989	94.39920	18.32559	3.91912	0.2093610	0.28943785	2.2634236	21	9 10.3	20.3
131568 2001 VK_{61}	16.4	X	288.72341	216.38832	279.46008	6.95403	0.0389815	0.30228841	2.1988135	21	—	—
131569 2001 VE_{63}	17.2	X	22.17675	28.54586	14.81655	4.97836	0.1445626	0.30311233	2.1948271	21	—	—
131570 2001 VJ_{66}	16.5	X	258.15085	99.13583	41.68782	7.99762	0.1046943	0.29673773	2.2261489	21	12 5.2	18.8
131571 2001 VM_{66}	16.0	X	39.62606	156.74172	279.80650	3.48282	0.1098016	0.30865592	2.1684678	21	—	—
131572 2001 VT_{66}	16.3	X	187.15677	349.55096	36.06483	6.41873	0.2397786	0.27428281	2.3460485	21	4 5.4	20.3
131573 2001 VX_{78}	16.8	X	226.02773	277.96550	242.65019	4.49231	0.0850242	0.29686031	2.2255360	21	11 20.5	19.5
131574 2001 VE_{86}	16.7	X	130.37874	234.89690	31.61621	8.27530	0.0949873	0.29930547	2.2133985	21	12 18.2	19.9
131575 2001 VP_{86}	13.6	X	124.61965	163.00415	275.00291	21.40836	0.0840748	0.17769961	3.1333703	21	3 25.2	18.7
131576 2001 VT_{86}	14.6	X	196.69675	123.40050	266.30194	11.02182	0.2236060	0.17896466	3.1185870	21	4 18.7	20.1
131577 2001 VW_{111}	16.2	X	278.14018	295.71442	271.93197	2.69594	0.0960495	0.30924963	2.1656915	21	—	—
131578 2001 VT_{113}	16.7	X	202.47764	227.73775	43.88962	3.27668	0.0583159	0.30873162	2.1681133	21	—	—
131579 2001 VA_{120}	17.0	X	337.52805	65.70447	45.46100	3.65852	0.1040032	0.30264777	2.1970726	21	—	—
131580 2001 VX_{120}	16.0	X	247.48011	32.11951	72.40845	6.50864	0.1021710	0.28760070	2.2730523	21	10 1.8	18.8
131581 2001 VG_{121}	13.1	X	298.87393	28.92681	281.31872	2.84299	0.0503527	0.08259429	5.2219899	21	5 20.8	19.9
131582 2001 WK_{4}	16.6	X	236.81433	54.93127	66.27284	9.32455	0.1982314	0.29125772	2.2539853	21	9 29.0	19.8
131583 2001 WM_{4}	16.2	X	167.78668	271.84191	66.32229	22.32481	0.1077468	0.36594740	1.9357842	21	—	—
131584 2001 WT_{5}	14.8	X	136.45553	208.17589	286.46900	23.59833	0.2800790	0.27326272	2.3518834	21	7 11.5	18.8
131585 2001 WW_{7}	16.8	X	231.00277	319.90422	126.82370	4.73852	0.1239178	0.28615599	2.2806965	21	8 9.2	19.8
131586 2001 WH_{8}	17.1	X	242.74962	326.54231	142.11657	2.78957	0.0993657	0.29056914	2.2575449	21	9 29.2	19.8
131587 2001 WA_{10}	16.9	X	13.73745	267.40995	183.12977	3.46972	0.0914907	0.30612540	2.1804015	21	—	—
131588 2001 WF_{28}	16.9	X	255.55257	303.09347	175.93572	4.63097	0.0985998	0.29372016	2.2413699	21	11 2.5	19.3
131589 2001 WW_{35}	17.3	X	46.08783	283.00741	124.05476	3.03855	0.1442751	0.30621619	2.1799705	21	—	—
131590 2001 WV_{39}	16.4	X	281.58551	245.80411	184.21315	3.88016	0.1413191	0.28987996	2.2611216	21	9 23.3	18.3
131591 2001 WX_{52}	17.4	X	63.32592	86.63995	290.08659	1.40666	0.1063793	0.30649983	2.1786254	21	—	—
131592 2001 WT_{64}	16.8	X	105.74343	236.28346	38.32522	21.61242	0.0749441	0.35025228	1.9931901	21	12 5.4	19.5
131593 2001 WH_{99}	16.4	X	69.93495	357.00387	140.98421	6.73486	0.0920912	0.26966717	2.3727428	21	4 2.6	19.0
131594 2001 WL_{99}	16.1	X	5.41011	185.69250	200.60468	4.40162	0.1565441	0.29537565	2.2329873	21	—	—
131595 2001 WP_{100}	17.5	X	238.77120	29.78767	234.11265	1.78825	0.0962444	0.31332786	2.1468582	21	—	—
131596 2001 XK	14.7	X	39.03420	278.20664	205.06014	20.56559	0.3253412	0.25816910	2.4426798	21	1 4.9	16.6
131597 2001 XT_{2}	15.5	X	260.45356	27.13303	40.93077	24.46270	0.2030357	0.28455899	2.2892217	21	8 23.2	19.1
131598 2001 XK_{6}	16.6	X	297.21078	31.62929	113.10604	24.81376	0.0320634	0.35510136	1.9750033	21	—	—
131599 2001 XM_{7}	16.4	X	210.39420	260.82873	234.34251	3.22585	0.0929583	0.28770285	2.2725142	21	9 22.5	19.6
131600 2001 XG_{9}	17.1	X	66.33960	356.77492	24.88192	7.87393	0.1071901	0.30601302	2.1809353	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131601 2001 XV_{9}	16.1	X	141.62995	57.27983	3.60046	3.44067	0.1728427	0.21936966	2.7228163	21	4 7.5	20.2
131602 2001 XS_{16}	16.7	X	197.72383	114.83397	20.99641	10.40738	0.1558325	0.28349813	2.2949290	21	9 9.1	20.2
131603 2001 XD_{18}	16.6	X	106.43504	174.69971	348.88806	4.99508	0.1571826	0.27500929	2.3419151	21	7 10.5	19.8
131604 2001 XE_{18}	15.6	X	264.25166	47.35235	37.04253	6.38080	0.1392241	0.28845307	2.2685722	21	9 20.1	18.2
131605 2001 XH_{18}	16.3	X	172.87079	59.25882	52.90210	10.39146	0.1042905	0.27886424	2.3202823	21	7 10.7	19.8
131606 2001 XM_{18}	16.2	X	188.81342	204.35176	308.76468	6.51897	0.1073936	0.28586546	2.2822415	21	9 18.7	19.5
131607 2001 XQ_{19}	16.0	X	97.37045	172.48144	36.66138	7.09783	0.1156170	0.27997676	2.3141316	21	8 29.7	19.1
131608 2001 XV_{19}	15.9	X	226.69960	183.02347	309.58237	8.05770	0.0557947	0.28882840	2.2666064	21	10 11.9	19.0
131609 2001 XJ_{21}	15.9	X	309.66883	330.93857	45.86923	7.36184	0.1417203	0.28629378	2.2799646	21	8 27.1	18.1
131610 2001 XN_{22}	16.7	X	233.75012	17.09841	42.09525	5.52468	0.2467159	0.28170064	2.3046810	21	6 23.2	20.5
131611 2001 XX_{22}	15.8	X	262.15206	32.26133	26.50780	4.56605	0.1104820	0.28501355	2.2867870	21	8 14.0	18.5
131612 2001 XU_{24}	16.0	X	241.29964	13.50694	53.03506	5.79367	0.1862799	0.28253275	2.3001537	21	7 17.5	19.3
131613 2001 XA_{27}	15.9	X	202.20769	87.95253	346.55578	7.25718	0.1657969	0.27643383	2.3338624	21	6 18.6	19.6
131614 2001 XK_{27}	16.2	X	306.96964	15.29588	60.51613	7.32187	0.0890808	0.29006021	2.2601848	21	11 23.9	18.1
131615 2001 XF_{28}	15.6	X	5.04954	304.43088	67.37763	7.65990	0.1752755	0.29162707	2.2520818	21	12 13.9	17.6
131616 2001 XX_{29}	16.3	X	90.84925	289.95686	237.31103	5.02984	0.2632908	0.26939717	2.3743279	21	7 9.6	19.6
131617 2001 XX_{31}	16.7	X	280.13164	246.73897	283.97951	4.22523	0.0942415	0.30349259	2.1929934	21	—	—
131618 2001 XX_{33}	16.6	X	347.27806	30.12208	143.86982	1.73954	0.1371269	0.26093506	2.4253873	21	—	—
131619 2001 XE_{40}	16.1	X	202.87537	111.50933	13.14897	7.40556	0.0517966	0.28512641	2.2861835	21	9 6.4	19.0
131620 2001 XQ_{41}	16.5	X	243.38884	136.86011	339.52949	8.23871	0.0917364	0.28911817	2.2650917	21	10 7.7	19.3
131621 2001 XP_{45}	16.2	X	52.92101	354.36958	350.03013	6.98961	0.1605225	0.29705063	2.2245853	21	—	—
131622 2001 XE_{46}	16.7	X	187.04409	53.96318	21.45780	6.81082	0.1956184	0.27607785	2.3358682	21	6 4.3	20.6
131623 2001 XG_{46}	16.2	X	326.86101	61.84636	12.32642	6.71742	0.1143169	0.29480251	2.2358805	21	12 31.2	18.3
131624 2001 XF_{52}	16.2	X	337.13891	10.24963	85.31190	2.17205	0.0264513	0.30223532	2.1990709	21	—	—
131625 2001 XN_{56}	16.4	X	344.12817	266.11433	89.79095	7.27076	0.1379933	0.29060635	2.2573522	21	10 7.9	18.3
131626 2001 XR_{58}	16.0	X	310.13668	138.42299	238.03459	5.38092	0.1498250	0.28827520	2.2695052	21	8 18.4	18.1
131627 2001 XF_{60}	15.7	X	103.76617	314.41952	86.02717	3.56876	0.0956633	0.31131367	2.1561084	21	—	—
131628 2001 XX_{60}	16.3	X	112.69457	121.90636	73.79231	3.17363	0.1092317	0.28244550	2.3006273	21	8 27.0	19.3
131629 2001 XB_{62}	15.8	X	197.91540	177.19128	270.69687	5.82655	0.1023974	0.27964763	2.3159470	21	7 4.3	19.2
131630 2001 XO_{64}	16.0	X	321.37690	171.02567	266.11047	3.44132	0.0865170	0.29433045	2.2382706	21	12 23.0	17.8
131631 2001 XQ_{66}	16.1	X	91.53678	189.42361	257.74332	3.02458	0.1322436	0.26343923	2.4099929	21	2 26.1	18.7
131632 2001 XT_{66}	16.0	X	249.99247	178.33071	277.86254	4.29141	0.1025739	0.28628634	2.2800041	21	9 16.7	18.8
131633 2001 XK_{67}	16.6	X	84.77870	308.93347	145.86834	0.66724	0.1708221	0.26441819	2.4040408	21	3 5.9	19.1
131634 2001 XN_{68}	15.2	X	169.84503	218.83578	309.64296	23.45383	0.2834837	0.28028134	2.3124549	21	9 6.3	19.7
131635 2001 XW_{71}	12.8	X	271.05660	294.53607	74.61851	3.65303	0.0652226	0.08040050	5.3165539	21	6 23.3	19.8
131636 2001 XJ_{72}	17.0	X	8.12145	43.23346	88.94552	2.37102	0.1360330	0.26033675	2.4291019	21	—	—
131637 2001 XU_{72}	16.3	X	328.86880	209.23867	176.66337	6.05298	0.1437281	0.29277719	2.2461800	21	10 21.1	18.0
131638 2001 XB_{73}	15.9	X	260.76857	123.93081	89.45356	5.76037	0.0794733	0.30789512	2.1720385	21	—	—
131639 2001 XE_{76}	17.2	X	357.87456	198.24859	241.44853	2.88902	0.0719756	0.30414199	2.1898706	21	—	—
131640 2001 XK_{77}	16.1	X	46.52011	265.27245	183.31293	5.91217	0.1579752	0.26037821	2.4288440	21	—	—
131641 2001 XX_{82}	16.8	X	13.40713	340.57837	106.66080	4.78089	0.0865350	0.30538559	2.1839215	21	—	—
131642 2001 XO_{85}	15.7	X	77.48806	143.61882	199.30255	3.22092	0.1201635	0.29870223	2.2163775	21	—	—
131643 2001 XS_{85}	16.8	X	165.44904	314.95205	133.90714	2.90625	0.1868633	0.27441604	2.3452891	21	6 3.6	20.6
131644 2001 XM_{86}	16.1	X	50.51844	180.30935	244.14159	3.55401	0.1740914	0.30567646	2.1825358	21	—	—
131645 2001 XS_{87}	16.8	X	299.36550	6.16783	32.09348	6.66435	0.1806354	0.28691809	2.2766561	21	9 3.1	18.8
131646 2001 XH_{88}	15.8	X	257.82958	110.29292	305.36970	5.06077	0.1542268	0.28260902	2.2997398	21	7 25.4	18.5
131647 2001 XP_{90}	15.3	X	196.27163	222.39720	286.01026	2.19819	0.1361741	0.18806755	3.0171261	21	9 13.2	20.0
131648 2001 XH_{99}	15.4	X	241.86635	348.64260	346.62821	2.20256	0.1133983	0.31970587	2.1182098	21	3 17.4	18.0
131649 2001 XK_{101}	16.4	X	215.06637	208.12998	325.28615	4.29502	0.0604473	0.29258019	2.2471882	21	11 25.4	19.1
131650 2001 XA_{103}	16.7	X	283.77149	21.85681	210.55106	2.37580	0.0620320	0.31237212	2.1512351	21	—	—
131651 2001 XC_{105}	16.5	X	196.53551	165.79401	153.31978	1.34987	0.1305103	0.31042371	2.1602274	21	1 9.2	19.4
131652 2001 XM_{105}	16.6	X	274.15327	170.54881	20.45897	6.84155	0.0828715	0.30481245	2.1866583	21	—	—
131653 2001 XO_{106}	16.2	X	323.13483	21.04647	28.72767	6.83552	0.0715138	0.29478043	2.2359922	21	11 13.6	18.3
131654 2001 XC_{107}	16.6	X	123.66241	112.07009	323.90135	3.99102	0.1257333	0.27001937	2.3706791	21	3 25.7	19.8
131655 2001 XT_{112}	17.1	X	354.11950	233.37617	186.87735	4.28062	0.1409633	0.29908870	2.2144679	21	—	—
131656 2001 XL_{114}	16.1	X	205.13034	280.55559	329.00248	5.15266	0.0633916	0.30319083	2.1944483	21	—	—
131657 2001 XP_{114}	16.3	X	111.20819	204.25294	4.95645	4.43691	0.0671845	0.28293717	2.2979613	21	9 7.8	19.2
131658 2001 XM_{118}	16.6	X	47.65635	312.43256	73.53568	6.51482	0.1540656	0.29937886	2.2130368	21	—	—
131659 2001 XQ_{134}	16.8	X	245.29174	167.81152	77.21929	6.05733	0.1279696	0.30941263	2.1649308	21	—	—
131660 2001 XM_{144}	16.0	X	282.74023	325.78162	99.41046	6.80374	0.1385067	0.23932243	2.5692939	21	9 16.2	19.1
131661 2001 XX_{146}	16.6	X	261.37047	47.96435	81.10300	2.75074	0.0258071	0.29486301	2.2355747	21	12 5.6	19.0
131662 2001 XX_{149}	16.7	X	98.97704	212.34721	94.53168	2.18547	0.0229754	0.29748382	2.2224252	21	—	—
131663 2001 XE_{150}	16.6	X	318.49682	359.22912	86.09143	1.01509	0.0317795	0.29694758	2.2250999	21	12 28.9	19.0
131664 2001 XZ_{164}	16.9	X	165.67659	152.81492	76.66293	1.91385	0.0700367	0.29472906	2.2362520	21	12 9.9	19.9
131665 2001 XA_{167}	16.4	X	271.84386	298.62440	90.23396	7.12885	0.0888196	0.28313258	2.2969039	21	7 16.8	19.0
131666 2001 XC_{167}	15.8	X	275.92556	359.28552	89.10872	7.10125	0.0633979	0.29084785	2.2561024	21	10 27.6	18.3
131667 2001 XW_{168}	15.8	X	264.45860	318.32345	95.19202	3.75265	0.1527415	0.23477134	2.6023917	21	7 30.4	19.3
131668 2001 XO_{171}	16.7	X	148.21751	55.89432	238.25146	1.05616	0.0292749	0.30203778	2.2000297	21	—	—
131669 2001 XP_{175}	16.0	X	159.14846	134.99309	107.82443	6.40169	0.0674362	0.29416426	2.2391135	21	12 20.1	19.0
131670 2001 XJ_{176}	16.5	X	48.22606	260.63982	113.78325	2.38277	0.1312387	0.29975702	2.2111751	21	—	—
131671 2001 XQ_{176}	15.9	X	185.53540	92.82683	99.02516	7.00610	0.0604689	0.29030477	2.2589152	21	11 15.6	18.8
131672 2001 XV_{177}	16.6	X	162.28825	172.37540	273.15151	5.75846	0.0669632	0.27333932	2.3514440	21	5 19.0	19.7
131673 2001 XH_{179}	16.6	X	39.86197	163.70527	269.99214	2.01568	0.0799835	0.30506219	2.1854647	21	—	—
131674 2001 XE_{183}	17.0	X	15.01744	253.14224	154.86136	0.48986	0.1736066	0.29920891	2.2138747	21	—	—
131675 2001 XG_{184}	15.5	X	321.44758	147.71901	228.01020	3.69707	0.1819610	0.28739473	2.2741382	21	9 8.6	17.2
131676 2001 XY_{184}	15.7	X	353.64037	243.50429	104.74587	7.12637	0.1391054	0.28720852	2.2751210	21	10 14.8	17.7
131677 2001 XZ_{184}	16.3	X	193.60458	330.43429	97.84233	1.68474	0.1951599	0.27616168	2.3353955	21	6 2.1	20.1
131678 2001 XV_{186}	16.6	X	217.68667	35.89416	81.15065	0.33599	0.1498311	0.28444674	2.2898238	21	9 1.6	19.9
131679 2001 XY_{186}	16.2	X	126.08845	124.75115	95.09314	6.95158	0.1483777	0.28466421	2.2886575	21	10 17.9	19.7
131680 2001 XK_{187}	16.3	X	4.68552	193.56072	168.47872	2.55077	0.0982559	0.29086528	2.2560123	21	11 17.8	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131681 2001 XK_{189}	17.4	X	281.94877	197.37507	275.34261	1.46830	0.0626429	0.29322941	2.2438700	21	12 8.7	19.7
131682 2001 XX_{192}	16.2	X	85.88150	163.65953	117.07180	6.95330	0.1750361	0.28755806	2.2732770	21	11 25.5	19.6
131683 2001 XP_{194}	16.3	X	43.92552	168.87201	220.71679	1.81157	0.1315986	0.29965346	2.2116845	21	—	—
131684 2001 XG_{197}	16.1	X	201.57411	236.00415	263.60603	5.60629	0.1332177	0.28302477	2.2974871	21	9 12.4	19.6
131685 2001 XH_{201}	16.5	X	263.66470	79.50448	103.47116	7.02674	0.0552762	0.29911773	2.2143246	21	—	—
131686 2001 XG_{204}	16.1	X	126.10453	172.45454	38.24997	4.91580	0.1310279	0.28568756	2.2831888	21	10 3.2	19.3
131687 2001 XW_{206}	16.5	X	199.64290	5.73614	149.10729	3.65833	0.1365924	0.28845730	2.2685500	21	10 5.4	19.6
131688 2001 XW_{207}	16.6	X	219.81737	292.10356	207.46789	5.02476	0.0836704	0.28990843	2.2609736	21	10 12.9	19.6
131689 2001 XT_{209}	16.5	X	294.18161	262.50773	221.85744	5.82195	0.1137681	0.29781841	2.2207603	21	—	—
131690 2001 XR_{214}	15.9	X	316.80532	245.65160	211.24790	6.02479	0.1291739	0.29511837	2.2342849	21	—	—
131691 2001 XN_{232}	16.8	X	46.06818	120.65129	353.93730	1.75040	0.1277682	0.26255858	2.4153787	21	1 17.4	18.9
131692 2001 XK_{233}	16.5	X	32.29878	190.32886	309.15701	1.53030	0.1447581	0.26319752	2.4114681	21	1 26.5	18.3
131693 2001 XC_{239}	16.5	X	297.56594	26.68317	47.94758	2.67751	0.1404351	0.29269133	2.2466193	21	10 31.9	18.4
131694 2001 XZ_{239}	15.7	X	211.82318	358.79293	307.40347	4.84022	0.1810133	0.31229025	2.1516110	21	1 10.5	18.9
131695 2001 XS_{254}	7.7	X	40.68430	0.85923	94.77079	4.26602	0.0482794	0.00437779	37.0083007	21	2 9.2	23.2
131696 2001 XT_{254}	7.4	X	5.41518	133.30734	359.12392	0.52112	0.3159602	0.00259461	52.4510953	21	2 11.5	23.0
131697 2001 XH_{255}	8.2	X	323.31413	222.50498	323.13207	2.86874	0.0708018	0.00481519	34.7317729	21	2 11.8	23.4
131698 2001 XS_{257}	17.0	X	320.28651	76.37758	342.74546	3.33614	0.1115657	0.29540886	2.2328199	21	11 23.4	18.8
131699 2001 YA	16.8	X	150.80408	3.96919	182.05745	2.46531	0.0934949	0.28655734	2.2785664	21	9 24.2	19.8
131700 2001 YN	15.6	X	233.03523	324.24043	100.44384	26.04366	0.2463945	0.28109015	2.3080168	21	6 30.1	19.2
131701 2001 YV	15.8	X	357.77644	134.65961	26.99111	10.04041	0.1970213	0.25564049	2.4587608	21	—	—
131702 2001 YZ_{3}	14.7	X	316.24270	223.23182	283.46660	30.51133	0.4019427	0.24974962	2.4972738	21	—	—
131703 2001 YF_{9}	16.5	X	191.58294	134.43232	23.16434	4.79521	0.0480891	0.28737965	2.2742177	21	10 6.5	19.3
131704 2001 YB_{10}	16.6	X	88.03833	175.51030	304.07292	1.57574	0.1637680	0.26766902	2.3845365	21	4 13.2	19.3
131705 2001 YE_{11}	16.2	X	308.73468	153.91716	252.32649	2.16995	0.1298006	0.28809190	2.2704678	21	10 7.9	18.1
131706 2001 YS_{18}	16.1	X	266.79126	140.72536	278.80265	1.16205	0.1250218	0.23404282	2.6077893	21	8 13.9	19.7
131707 2001 YM_{39}	16.7	X	210.94185	221.47955	49.47153	3.14653	0.1914095	0.30858106	2.1688185	21	—	—
131708 2001 YB_{44}	17.0	X	179.31304	116.94389	48.37508	2.91954	0.0990086	0.28689342	2.2767866	21	9 29.4	20.1
131709 2001 YE_{49}	16.1	X	178.25967	273.95945	26.03488	3.51822	0.0725836	0.30767185	2.1730891	21	—	—
131710 2001 YM_{50}	16.3	X	307.35852	13.71476	24.09931	0.73159	0.1972288	0.23980586	2.5658397	21	9 6.5	18.7
131711 2001 YJ_{54}	16.3	X	186.75819	326.08658	33.85186	2.45996	0.1923372	0.26875837	2.3780887	21	3 2.9	20.1
131712 2001 YE_{65}	16.7	X	85.09343	77.24588	61.28719	2.05426	0.1346825	0.26886948	2.3774335	21	5 2.3	19.4
131713 2001 YN_{65}	16.9	X	154.14709	135.79558	321.42654	2.84141	0.1202901	0.27412127	2.3469701	21	5 29.6	20.2
131714 2001 YZ_{70}	16.6	X	184.21733	197.89379	315.37173	0.93338	0.1197584	0.23341344	2.6124750	21	9 12.0	20.7
131715 2001 YD_{71}	16.5	X	261.14798	95.10763	91.93555	4.42683	0.0456551	0.30032204	2.2084009	21	—	—
131716 2001 YJ_{71}	16.6	X	238.16770	200.36294	77.09559	4.02340	0.0939967	0.31020598	2.1612381	21	—	—
131717 2001 YL_{71}	16.1	X	304.88474	276.03452	76.25733	6.59482	0.1939492	0.28297531	2.2977548	21	6 24.7	18.5
131718 2001 YB_{72}	16.4	X	219.27647	232.61650	319.99540	4.94522	0.0852774	0.29467558	2.2365226	21	12 25.3	19.0
131719 2001 YR_{77}	16.2	X	230.96481	28.70162	55.40216	2.67228	0.0484716	0.23156964	2.6263240	21	8 13.2	19.9
131720 2001 YG_{78}	16.4	X	174.70348	347.59239	79.76349	3.57389	0.2076278	0.27388787	2.3483033	21	5 15.9	20.3
131721 2001 YK_{80}	16.1	X	83.42856	250.39985	97.58408	4.29453	0.2011963	0.30123003	2.2039609	21	—	—
131722 2001 YR_{82}	16.2	X	111.97851	78.31626	45.18338	3.18073	0.1788867	0.26999128	2.3708435	21	5 24.2	19.5
131723 2001 YT_{82}	16.4	X	34.35489	11.46075	359.47302	3.04113	0.1433271	0.29678387	2.2259181	21	—	—
131724 2001 YZ_{83}	16.3	X	123.42058	188.68715	341.95669	2.20253	0.0973962	0.27706235	2.3303315	21	8 2.4	19.5
131725 2001 YB_{86}	17.2	X	285.09099	77.45337	40.47142	2.70418	0.1012997	0.29372830	2.2413285	21	12 17.9	19.3
131726 2001 YS_{86}	16.5	X	172.45121	10.44227	102.20832	3.54345	0.1143923	0.27698209	2.3307816	21	7 10.1	19.8
131727 2001 YH_{87}	16.2	X	234.37678	46.23669	12.90048	3.29622	0.0800116	0.22854853	2.6494177	21	7 10.4	20.0
131728 2001 YJ_{87}	16.2	X	17.01817	149.17385	41.92903	3.52742	0.1126396	0.26439896	2.4041573	21	3 18.1	18.4
131729 2001 YP_{91}	16.1	X	253.77856	3.48393	106.24664	5.38542	0.1035053	0.28769137	2.2725746	21	10 17.3	18.7
131730 2001 YE_{92}	15.6	X	332.31224	77.03912	312.50119	4.41036	0.1511575	0.28960593	2.2625477	21	10 29.9	17.4
131731 2001 YX_{94}	16.8	X	135.60746	270.80679	185.94596	1.34446	0.1483492	0.27093791	2.3653180	21	5 11.9	20.1
131732 2001 YC_{103}	17.1	X	171.80120	291.49109	158.83163	3.14138	0.1470143	0.27586775	2.3370541	21	6 10.2	20.6
131733 2001 YY_{108}	17.1	X	288.09366	85.14585	24.16279	2.73283	0.1441637	0.29496107	2.2350792	21	12 6.1	18.9
131734 2001 YK_{111}	16.0	X	271.51105	46.51653	31.32701	7.72249	0.0612999	0.28625295	2.2801814	21	10 3.6	18.5
131735 2001 YG_{113}	16.4	X	264.57611	330.62973	154.72632	5.24557	0.1363534	0.28934151	2.2639260	21	11 19.1	18.8
131736 2001 YB_{114}	16.1	X	129.38345	323.55879	206.38538	3.98258	0.0939145	0.27455155	2.3445173	21	8 6.2	19.3
131737 2001 YD_{114}	15.7	X	275.81200	273.13061	158.90499	5.63696	0.2781561	0.23567413	2.5957415	21	8 19.0	19.1
131738 2001 YF_{114}	15.2	X	222.22986	134.84160	260.93998	12.20916	0.1893641	0.27457422	2.3443883	21	5 15.9	19.1
131739 2001 YJ_{115}	16.2	X	168.09664	82.24707	38.13086	3.39893	0.0977838	0.27708681	2.3301944	21	7 16.3	19.4
131740 2001 YH_{117}	16.3	X	123.78137	7.15991	102.42238	4.99626	0.1579723	0.26980750	2.3719200	21	5 17.9	19.5
131741 2001 YV_{121}	16.9	X	7.45406	25.77817	354.10696	5.02044	0.1606843	0.29763119	2.2216915	21	12 29.9	19.2
131742 2001 YX_{121}	16.6	X	302.94973	236.18774	313.01537	5.31117	0.0333731	0.30985098	2.1628885	21	—	—
131743 2001 YH_{125}	16.5	X	230.92608	101.13572	38.42199	6.20816	0.1775466	0.28986043	2.2612232	21	10 15.4	19.3
131744 2001 YW_{125}	16.3	X	115.59860	197.86969	340.03512	4.75112	0.0552568	0.27990139	2.3145470	21	7 29.5	19.2
131745 2001 YT_{130}	16.9	X	333.60095	36.27780	44.35576	5.21830	0.0912768	0.29644850	2.2275966	21	—	—
131746 2001 YW_{130}	16.2	X	205.23437	359.55154	77.91408	7.29751	0.0762982	0.27767439	2.3269059	21	6 29.9	19.3
131747 2001 YJ_{133}	15.3	X	329.99132	191.38911	203.47704	3.81562	0.1654005	0.29109164	2.2548426	21	11 6.6	16.7
131748 2001 YU_{133}	17.1	X	51.57760	173.57989	41.19698	3.42061	0.1639609	0.27161541	2.3613830	21	7 5.5	19.4
131749 2001 YE_{134}	16.2	X	240.18889	271.17628	326.86731	4.10971	0.1114337	0.30748240	2.1739816	21	—	—
131750 2001 YS_{137}	15.8	X	208.59784	102.10834	20.24915	8.11585	0.0505705	0.28470775	2.2884241	21	9 11.3	18.8
131751 2001 YT_{151}	16.1	X	314.25612	359.53677	358.32692	6.48188	0.1932564	0.28580928	2.2825405	21	7 25.2	18.0
131752 2001 YQ_{154}	16.3	X	28.85345	298.37442	36.93695	7.31093	0.0293964	0.28911756	2.2650949	21	11 5.0	18.8
131753 2001 YR_{154}	15.9	X	78.76749	320.39393	33.69040	6.84102	0.1315927	0.30035538	2.2082375	21	—	—
131754 2002 AO	15.8	X	202.53213	190.54432	311.16357	6.18279	0.1278028	0.28372420	2.2937098	21	9 17.2	19.1
131755 2002 AN_{1}	15.7	X	289.42812	5.17011	192.12291	2.76502	0.1321449	0.25172592	2.4841859	21	—	—
131756 2002 AQ_{1}	15.8	X	220.11313	353.42631	123.52184	4.44648	0.1164390	0.28339709	2.2954744	21	9 9.2	18.9
131757 2002 AV_{2}	15.7	X	244.72920	358.72133	77.58325	24.73941	0.2096939	0.28289633	2.2981824	21	8 4.0	19.5
131758 2002 AV_{5}	15.9	X	82.48444	38.33096	346.75921	2.85876	0.1517521	0.30381698	2.1914321	21	—	—
131759 2002 AP_{8}	17.3	X	86.95107	139.14507	25.50793	0.79562	0.1501101	0.26690995	2.3890553	21	6 14.5	20.3
131760 2002 AW_{9}	16.0	X	116.73508	123.17772	318.90507	1.32834	0.0966871	0.26393583	2.4069689	21	3 22.6	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131761 2002 AB_{10}	16.0	X	70.59704	96.37240	110.81168	2.96452	0.1629061	0.27104946	2.3646690	21	7 25.0	18.5
131762 Csonka	16.7	X	304.54420	285.55177	165.37720	4.57273	0.2159963	0.24349768	2.5398388	21	11 20.5	18.9
131763 Donátbánki	17.0	X	171.46694	300.16693	138.18396	1.76174	0.1664631	0.27152794	2.3618902	21	5 25.8	20.8
131764 2002 AZ_{11}	16.9	X	12.06324	353.85189	54.41518	2.32067	0.1349799	0.29782540	2.2207256	21	—	—
131765 2002 AF_{12}	15.8	X	10.45059	244.52635	108.03379	7.75583	0.1447987	0.28975785	2.2617568	21	11 21.9	18.1
131766 2002 AT_{12}	16.3	X	101.40808	349.64607	134.67324	5.46566	0.1001532	0.26673284	2.3901127	21	5 2.5	19.3
131767 2002 AZ_{12}	16.3	X	51.90433	151.33439	134.88096	7.93899	0.1269333	0.28110426	2.3079396	21	10 18.5	19.1
131768 2002 AB_{14}	16.0	X	153.42543	100.46114	74.83445	3.70542	0.1311336	0.27855828	2.3219810	21	9 14.7	19.4
131769 2002 AE_{15}	16.1	X	169.58404	83.28046	13.38431	12.81764	0.1405215	0.27563908	2.3383465	21	6 14.5	19.9
131770 2002 AZ_{16}	15.8	X	190.59441	298.20833	244.38927	5.95184	0.0447814	0.28949771	2.2631116	21	11 8.1	18.7
131771 2002 AB_{17}	16.0	X	44.76012	132.73411	222.59041	5.06771	0.1114100	0.29557049	2.2320059	21	—	—
131772 2002 AV_{18}	16.0	X	141.56426	88.13345	28.28861	2.80917	0.1031630	0.27136609	2.3628292	21	6 9.4	19.2
131773 2002 AW_{18}	15.9	X	223.77889	341.20576	106.10139	4.63007	0.1778397	0.28003618	2.3138043	21	7 27.2	19.2
131774 2002 AZ_{18}	15.2	X	239.40500	293.79806	119.38683	23.21261	0.3132966	0.27984714	2.3148462	21	6 18.5	19.4
131775 2002 AF_{20}	16.0	X	21.17422	224.32404	216.24788	6.66698	0.0806727	0.30240091	2.1982681	21	—	—
131776 2002 AM_{20}	15.9	X	79.70342	92.09407	141.37062	7.64365	0.0965240	0.27918486	2.3185055	21	9 4.7	18.7
131777 2002 AE_{21}	16.6	X	183.67189	299.28336	42.88042	2.82604	0.2469594	0.31375568	2.1449063	21	2 4.0	20.0
131778 2002 AL_{23}	16.6	X	200.62964	311.35592	246.32376	6.76959	0.0929661	0.29165658	2.2519299	21	12 6.4	19.4
131779 2002 AO_{23}	16.0	X	203.44349	246.64593	248.64833	5.13796	0.1157967	0.28367591	2.2939700	21	9 10.5	19.4
131780 2002 AM_{24}	17.1	X	214.72713	243.06929	157.11310	2.84759	0.2303958	0.27673158	2.3321880	21	5 15.1	21.1
131781 2002 AL_{25}	16.1	X	257.78603	196.07370	320.36011	7.12980	0.0810163	0.29383052	2.2408087	21	12 31.9	18.6
131782 2002 AZ_{26}	16.7	X	168.53463	292.19105	186.65863	1.74336	0.1761046	0.27621381	2.3351016	21	7 14.9	20.5
131783 2002 AE_{27}	16.0	X	48.43350	75.66458	120.97891	7.44235	0.1613877	0.26454453	2.4032753	21	6 1.7	18.4
131784 2002 AL_{27}	16.4	X	157.15295	142.68074	35.98399	3.02010	0.0789379	0.28284642	2.2984528	21	9 22.2	19.6
131785 2002 AU_{27}	16.6	X	111.30092	81.45520	23.57195	5.07232	0.0741305	0.26734130	2.3864848	21	4 12.5	19.5
131786 2002 AH_{28}	17.1	X	270.33736	82.40650	31.12892	3.16282	0.1597489	0.29036716	2.2585916	21	11 5.5	19.2
131787 2002 AR_{29}	16.2	X	186.36855	140.24990	101.10918	4.76307	0.0537861	0.29823482	2.2186927	21	—	—
131788 2002 AS_{30}	16.5	X	133.22904	106.80972	117.35156	6.10721	0.1553659	0.28496932	2.2870236	21	10 29.9	20.1
131789 2002 AU_{34}	16.2	X	155.12862	130.11359	314.90441	1.76989	0.1726723	0.27126379	2.3634232	21	5 18.1	19.7
131790 2002 AH_{39}	16.9	X	187.22538	216.62818	192.86880	1.87814	0.2129642	0.27286714	2.3541559	21	5 3.8	20.8
131791 2002 AU_{39}	16.9	X	188.76300	244.03617	172.65602	2.38100	0.2143700	0.27382353	2.3486711	21	5 14.6	20.8
131792 2002 AC_{41}	16.5	X	299.51881	306.36089	173.88710	4.01146	0.1274854	0.24436600	2.5338186	21	12 29.8	19.2
131793 2002 AF_{41}	16.8	X	102.36215	303.17474	236.73321	2.07102	0.1032657	0.27383146	2.3486258	21	7 19.5	19.8
131794 2002 AJ_{46}	16.6	X	137.14012	226.72840	149.40654	1.79512	0.1965890	0.26160495	2.4212450	21	2 3.6	20.0
131795 2002 AU_{50}	17.2	X	251.26439	105.96775	303.98534	1.56171	0.1983992	0.28152435	2.3056430	21	7 3.3	20.5
131796 2002 AB_{51}	16.7	X	117.16087	234.77214	285.19569	1.26850	0.1564652	0.27350313	2.3505050	21	7 16.9	19.9
131797 2002 AQ_{52}	16.9	X	104.37253	310.53781	135.09735	2.21665	0.1601648	0.26406499	2.4061840	21	3 22.1	19.7
131798 2002 AV_{52}	16.9	X	108.69210	183.06477	297.87080	3.02584	0.0629608	0.26803712	2.3823529	21	4 27.9	19.8
131799 2002 AD_{53}	17.1	X	208.16492	210.37597	216.43567	2.10448	0.1402949	0.27651888	2.3333838	21	6 15.5	20.4
131800 2002 AM_{53}	17.2	X	304.04607	180.24980	198.88822	2.11585	0.1761732	0.28595831	2.2817474	21	8 8.0	19.2
131801 2002 AU_{53}	16.0	X	195.58546	2.85065	178.48147	2.25364	0.0682984	0.23698096	2.5861899	21	11 3.6	19.5
131802 2002 AR_{56}	17.0	X	160.22024	59.98357	162.50158	1.43590	0.1591135	0.28874369	2.2670497	21	11 20.0	20.5
131803 2002 AD_{59}	16.0	X	145.83014	157.71232	137.60285	6.63317	0.1713295	0.29601626	2.2297645	21	—	—
131804 2002 AY_{62}	15.7	X	101.65263	303.67285	296.41926	9.46210	0.1341506	0.27977089	2.3152667	21	10 8.7	19.2
131805 2002 AE_{64}	16.4	X	153.47738	296.12476	210.49731	1.95177	0.1504418	0.27436210	2.3455965	21	8 5.1	19.9
131806 2002 AS_{66}	16.1	X	138.46367	345.01358	180.13545	3.74597	0.1756352	0.27398869	2.3477272	21	8 15.7	19.7
131807 2002 AN_{75}	16.4	X	78.16413	64.32056	312.25241	1.43565	0.2092938	0.25436011	2.4670051	21	—	—
131808 2002 AB_{77}	17.4	X	164.49374	138.73328	17.56013	2.53068	0.1011368	0.28128433	2.3069545	21	8 30.9	20.7
131809 2002 AW_{85}	16.6	X	7.02883	355.36462	177.72927	3.75188	0.1445455	0.26037378	2.4288716	21	1 27.2	18.9
131810 2002 AV_{86}	16.4	X	207.70568	352.79742	228.32914	5.65201	0.0505261	0.29625694	2.2285567	21	—	—
131811 2002 AC_{87}	15.7	X	231.76044	39.33308	158.74490	5.51825	0.1289184	0.24439810	2.5335968	21	12 30.3	19.2
131812 2002 AK_{87}	16.8	X	101.03134	271.35604	191.47721	3.54748	0.1744845	0.26589422	2.3951357	21	4 11.7	19.7
131813 2002 AR_{87}	16.2	X	125.85222	150.42893	253.89209	5.91390	0.1457467	0.26224109	2.4173279	21	2 17.0	19.4
131814 2002 AW_{87}	16.3	X	126.46721	335.97954	203.28813	3.30870	0.1743276	0.27795476	2.3253410	21	8 22.4	19.9
131815 2002 AT_{88}	16.0	X	125.15488	77.52305	143.64421	6.92478	0.0735693	0.28468140	2.2885654	21	10 14.0	19.1
131816 2002 AS_{89}	15.9	X	186.79528	177.89347	247.12199	4.20406	0.1675420	0.27264343	2.3554435	21	5 22.4	19.6
131817 2002 AH_{90}	15.7	X	121.30875	176.59539	261.03833	4.46025	0.1621558	0.26430472	2.4047288	21	3 30.2	18.9
131818 2002 AB_{91}	16.3	X	337.27811	290.97895	309.35593	1.21454	0.1292800	0.26668782	2.3903817	21	3 15.1	19.0
131819 2002 AO_{93}	17.5	X	171.76407	199.59470	308.10453	1.22534	0.1396222	0.28070091	2.3101500	21	8 25.5	20.8
131820 2002 AX_{93}	17.1	X	221.29749	85.70382	75.90323	3.91097	0.0794763	0.29031463	2.2588641	21	11 15.9	19.8
131821 2002 AG_{95}	16.4	X	95.52444	124.02897	88.33370	3.60169	0.1076614	0.27852670	2.3221566	21	8 28.7	19.4
131822 2002 AM_{96}	17.4	X	198.83988	61.72775	47.78946	1.63834	0.1430869	0.28025757	2.3125856	21	8 2.9	20.9
131823 2002 AY_{97}	15.9	X	148.40248	345.76803	339.86428	4.60884	0.2445824	0.30550792	2.1833385	21	—	—
131824 2002 AQ_{98}	16.1	X	113.36312	156.86219	96.72717	8.46127	0.1075966	0.28693433	2.2765702	21	11 14.7	19.4
131825 2002 AP_{99}	15.9	X	303.29453	285.19342	94.06783	6.55930	0.1630761	0.28428012	2.2907185	21	8 12.0	18.1
131826 2002 AS_{101}	16.0	X	121.81436	21.98756	300.44074	5.51499	0.2073115	0.30129211	2.2036581	21	—	—
131827 2002 AO_{102}	16.5	X	198.50012	218.50096	0.09522	2.92115	0.0435873	0.29477812	2.2360039	21	—	—
131828 2002 AQ_{106}	16.3	X	185.88556	24.08666	300.57892	4.28366	0.2226316	0.30944235	2.1647922	21	1 13.1	19.6
131829 2002 AM_{107}	16.8	X	97.48303	243.57486	343.72431	1.67429	0.1593977	0.27923912	2.3182052	21	9 24.7	19.9
131830 2002 AQ_{107}	16.1	X	332.44273	141.18262	112.51207	6.97343	0.1155394	0.26640941	2.3920468	21	4 2.4	18.8
131831 2002 AC_{108}	16.9	X	112.29110	103.67448	340.23473	0.76669	0.1571182	0.26521035	2.3992513	21	3 28.6	19.8
131832 2002 AK_{108}	16.2	X	241.71992	177.61208	316.22715	4.68116	0.1092918	0.28872881	2.2671276	21	10 28.1	19.0
131833 2002 AJ_{110}	16.3	X	201.67514	28.20570	87.33789	3.33540	0.0482157	0.28039470	2.3118315	21	8 21.8	19.3
131834 2002 AO_{110}	16.5	X	67.68744	131.91055	72.54249	3.19377	0.1452532	0.27179524	2.3603414	21	7 13.7	19.2
131835 2002 AJ_{113}	16.9	X	325.26858	14.62342	76.84637	1.97927	0.0744030	0.29476083	2.2360913	21	—	—
131836 2002 AP_{113}	16.6	X	34.93836	280.65644	308.20751	1.76869	0.1413891	0.27153360	2.3618573	21	6 21.4	18.7
131837 2002 AX_{113}	16.4	X	276.89699	261.05367	313.25663	1.91578	0.1502623	0.25222209	2.4809269	21	—	—
131838 2002 AG_{115}	16.1	X	66.86652	127.17958	112.17398	5.84179	0.1005399	0.27696739	2.3308641	21	8 27.1	18.8
131839 2002 AO_{116}	15.5	X	247.73317	321.82854	126.70437	13.77335	0.1238570	0.23254475	2.6189770	21	8 31.6	19.2
131840 2002 AV_{116}	16.5	X	95.86066	191.47824	332.84430	2.04040	0.1395383	0.27029150	2.3690876	21	6 24.7	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131841 2002 AK_{117}	16.3	X	173.33610	33.27069	133.62437	6.74213	0.0570270	0.28169634	2.3047045	21	9 27.4	19.4
131842 2002 AY_{117}	16.1	X	108.55584	231.69015	330.74363	3.03070	0.1626662	0.27558167	2.3386712	21	9 3.5	19.3
131843 2002 AM_{118}	16.1	X	180.21089	149.89956	340.58896	0.97266	0.1203873	0.27782427	2.3260690	21	8 11.9	19.5
131844 2002 AW_{119}	16.9	X	68.53692	99.49907	106.91519	1.96763	0.2560944	0.27001217	2.3707212	21	8 5.7	19.6
131845 2002 AH_{120}	16.3	X	139.76203	191.17169	321.62932	1.72415	0.1513205	0.27520517	2.3408037	21	7 31.3	19.8
131846 2002 AU_{120}	16.8	X	280.14368	59.51480	50.20588	1.98144	0.1416172	0.29090189	2.2558230	21	11 20.7	18.9
131847 2002 AN_{121}	15.3	X	21.36676	256.33579	119.44939	7.38507	0.1853481	0.29374098	2.2412641	21	—	—
131848 2002 AK_{123}	15.7	X	73.65599	135.27674	106.83458	6.44461	0.2242639	0.27510872	2.3413507	21	9 29.2	19.0
131849 2002 AP_{125}	16.1	X	105.81133	29.92723	111.44992	5.20049	0.0755296	0.26698942	2.3885812	21	5 27.6	19.0
131850 2002 AT_{125}	16.3	X	96.77600	9.87853	130.46743	5.69539	0.1744733	0.26717640	2.3874667	21	5 29.6	19.4
131851 2002 AW_{125}	15.7	X	39.38864	236.46439	318.01439	9.49283	0.2082563	0.26379390	2.4078322	21	5 10.1	17.8
131852 2002 AC_{128}	16.7	X	321.69871	289.93111	124.81741	0.96088	0.0784716	0.28911289	2.2651193	21	11 18.9	18.9
131853 2002 AL_{129}	16.7	X	48.23049	296.77709	184.09422	6.71050	0.0901827	0.25940266	2.4349297	21	1 28.4	19.3
131854 2002 AK_{130}	16.6	X	76.71688	329.24376	183.00350	3.57639	0.1330855	0.26666580	2.3905133	21	5 9.8	19.2
131855 2002 AL_{132}	16.9	X	118.83414	220.90420	244.55389	0.42439	0.1476176	0.27011930	2.3700944	21	5 3.7	20.1
131856 2002 AQ_{137}	16.5	X	142.08097	276.52461	87.21850	4.91996	0.1419359	0.30849951	2.1692007	21	1 7.4	18.8
131857 2002 AY_{144}	16.8	X	7.96276	280.45735	267.06588	0.59557	0.1476013	0.26192042	2.4193005	21	2 19.1	19.0
131858 2002 AC_{145}	16.1	X	27.94354	129.89716	125.13091	5.33707	0.1309411	0.27468220	2.3437738	21	7 18.3	18.1
131859 2002 AS_{147}	16.5	X	48.73180	137.01463	74.56652	3.41372	0.1622249	0.26978772	2.3720359	21	6 24.3	18.8
131860 2002 AN_{148}	16.3	X	101.56875	90.32226	71.01621	11.78993	0.0983370	0.27210563	2.3585461	21	6 21.1	19.3
131861 2002 AS_{148}	16.0	X	41.15346	29.90843	138.21753	2.79586	0.1539973	0.26014403	2.4303014	21	4 1.6	18.1
131862 2002 AA_{151}	16.3	X	198.02838	108.54419	319.23487	2.00679	0.1550405	0.27435213	2.3456533	21	6 5.8	19.8
131863 2002 AG_{152}	16.9	X	94.81251	141.98694	36.92298	2.77313	0.1203101	0.27164189	2.3612296	21	7 11.6	19.9
131864 2002 AM_{152}	16.4	X	223.94793	64.18542	333.51440	1.91605	0.1558749	0.27368166	2.3494827	21	5 22.4	20.0
131865 2002 AD_{153}	16.4	X	155.13865	99.74220	344.79149	0.81402	0.1579388	0.26992991	2.3712029	21	5 16.8	19.8
131866 2002 AG_{153}	16.3	X	145.67028	151.09220	331.62976	4.30336	0.1770042	0.27260577	2.3556604	21	6 28.8	19.9
131867 2002 AA_{154}	16.3	X	151.62605	92.87018	34.39086	3.11354	0.1052607	0.27344456	2.3508406	21	7 6.9	19.6
131868 2002 AW_{154}	16.1	X	269.89274	141.70486	324.05555	3.39168	0.2096064	0.23760565	2.5816550	21	10 5.9	19.3
131869 2002 AJ_{155}	16.0	X	128.62428	41.39315	33.03069	1.83699	0.1527956	0.26409310	2.4060133	21	4 5.1	19.3
131870 2002 AU_{156}	16.3	X	302.48247	260.77125	149.61918	5.45898	0.1547072	0.23632611	2.5909652	21	9 23.0	18.9
131871 2002 AP_{157}	16.9	X	176.95446	311.47035	145.62920	1.60297	0.1247635	0.27480509	2.3430750	21	6 23.9	20.4
131872 2002 AN_{158}	16.5	X	116.50269	267.24732	192.38681	2.93918	0.1649757	0.26687131	2.3892859	21	4 26.1	19.5
131873 2002 AJ_{159}	16.4	X	125.95038	328.52048	291.90172	5.40452	0.1562031	0.28726901	2.2748016	21	12 4.8	19.9
131874 2002 AP_{160}	16.5	X	270.24031	313.38949	153.18910	5.93554	0.0398633	0.28820823	2.2698568	21	11 15.5	19.1
131875 2002 AR_{161}	16.5	X	128.75324	26.02428	141.74642	2.93306	0.1006356	0.27540972	2.3396445	21	8 4.4	19.5
131876 2002 AZ_{161}	16.6	X	111.79044	329.99103	160.66376	2.53720	0.1388270	0.26890809	2.3772059	21	5 29.3	19.7
131877 2002 AG_{163}	16.2	X	312.94692	10.90652	213.81102	1.66187	0.1405873	0.25691217	2.4506405	21	1 18.6	19.3
131878 2002 AY_{163}	16.5	X	1.83178	30.18191	185.12857	2.15058	0.1293443	0.26276755	2.4140980	21	3 23.1	18.8
131879 2002 AR_{164}	16.1	X	346.79874	248.39919	301.24094	4.00551	0.1365998	0.25703176	2.4498803	21	1 19.7	18.8
131880 2002 AV_{164}	16.4	X	67.99390	12.44755	156.81393	7.03534	0.0518645	0.26701085	2.3884534	21	5 9.6	19.2
131881 2002 AZ_{165}	16.5	X	61.31192	24.21361	184.61615	2.82939	0.0714861	0.27073875	2.3664778	21	6 26.9	19.1
131882 2002 AA_{166}	16.5	X	72.99420	311.66021	245.55091	2.62158	0.1320448	0.27005170	2.3704899	21	7 8.1	19.2
131883 2002 AF_{166}	15.7	X	25.04508	23.74812	201.51373	3.10570	0.1266730	0.26694940	2.3888200	21	5 25.2	17.9
131884 2002 AJ_{166}	16.0	X	16.73539	41.94435	156.56360	3.26166	0.1528332	0.26203578	2.4185903	21	3 26.8	18.2
131885 2002 AP_{168}	16.9	X	105.74125	295.64171	216.52053	0.46099	0.1259683	0.27026971	2.3692150	21	6 18.3	19.9
131886 2002 AU_{168}	17.0	X	353.62518	147.78052	234.94001	2.30483	0.1624506	0.29306450	2.2447117	21	12 8.3	18.9
131887 2002 AC_{175}	16.5	X	98.61914	114.64565	318.71596	4.51293	0.0901031	0.26090539	2.4255711	21	2 13.1	19.4
131888 2002 AY_{177}	16.8	X	20.72623	190.62799	356.63457	0.99564	0.1760758	0.26164608	2.4209913	21	3 15.8	18.8
131889 2002 AD_{179}	17.0	X	143.21121	350.40814	24.49710	0.84565	0.1594223	0.31074926	2.1587183	21	1 26.5	19.3
131890 2002 AE_{179}	16.0	X	82.50109	134.47020	118.02121	8.29657	0.1080294	0.28075593	2.3098481	21	10 9.9	19.1
131891 2002 AQ_{179}	16.2	X	24.30530	129.04795	43.27954	2.58109	0.1398011	0.26033796	2.4290944	21	3 3.4	18.4
131892 2002 AJ_{182}	16.8	X	224.71785	37.81507	1.78098	4.82856	0.2176765	0.27728864	2.3290635	21	5 21.3	20.6
131893 2002 AW_{182}	16.9	X	157.78812	141.05279	31.81881	6.31172	0.1364390	0.28152835	2.3056212	21	9 16.6	20.3
131894 2002 AK_{184}	16.4	X	19.00382	304.72499	67.78122	4.53030	0.1853180	0.29415788	2.2391459	21	—	—
131895 2002 AH_{186}	16.1	X	46.74013	260.91197	62.11029	8.37302	0.1703447	0.28983152	2.2613736	21	12 5.1	18.8
131896 2002 AQ_{189}	15.6	X	177.16013	221.70022	210.64252	11.78565	0.1735827	0.27227104	2.3575907	21	5 24.0	19.4
131897 2002 AL_{198}	16.6	X	192.61445	219.87186	212.67565	5.27293	0.1462797	0.27535516	2.3399536	21	6 7.4	20.1
131898 2002 BB_{1}	15.4	X	283.70009	334.30934	137.15521	16.07855	0.1194433	0.24157379	2.5533058	21	11 25.7	18.7
131899 2002 BC_{1}	17.6	X	224.03877	271.39020	185.10796	1.98235	0.1923638	0.28180809	2.3040952	21	8 6.6	20.9
131900 2002 BG_{1}	16.3	X	128.08486	92.44599	64.94835	2.99815	0.1529930	0.27362181	2.3498253	21	7 25.9	19.6
131901 2002 BY_{1}	16.1	X	91.53180	222.30203	308.56306	1.28291	0.1041417	0.26925991	2.3751347	21	6 22.4	19.0
131902 2002 BA_{2}	15.8	X	203.98779	30.13007	143.75112	14.66052	0.1954505	0.23463509	2.6033991	21	10 27.6	20.2
131903 2002 BE_{7}	16.0	X	245.69096	1.66893	63.95161	7.75362	0.0962055	0.27977276	2.3152564	21	8 3.7	19.1
131904 2002 BD_{8}	15.8	X	106.24414	196.87281	326.13860	7.86871	0.1319828	0.27147691	2.3621862	21	7 6.3	19.0
131905 2002 BQ_{9}	15.6	X	147.23882	121.53763	129.11243	9.17259	0.2905627	0.28521112	2.2857308	21	12 11.0	19.9
131906 2002 BA_{10}	15.9	X	272.06838	307.09328	101.70060	2.65654	0.1985337	0.28230631	2.3013835	21	7 27.9	18.5
131907 2002 BG_{14}	15.7	X	111.08882	279.46613	257.52971	1.55631	0.1542454	0.27290420	2.3539428	21	8 1.7	19.1
131908 2002 BO_{14}	17.0	X	191.48376	314.05574	178.36554	3.19541	0.1098965	0.27941644	2.3172243	21	8 26.5	20.2
131909 2002 BX_{14}	16.9	X	209.97988	248.79150	171.25741	2.36542	0.1895975	0.27473099	2.3434964	21	6 6.5	20.5
131910 2002 BR_{15}	16.2	X	63.05027	341.02856	248.16649	3.91572	0.2114281	0.27210031	2.3585768	21	8 21.1	19.1
131911 2002 BC_{16}	16.9	X	83.62636	10.49183	202.22922	2.28148	0.1707799	0.27361556	2.3498611	21	8 20.1	20.0
131912 2002 BQ_{16}	16.4	X	117.23736	307.14840	228.02731	2.10242	0.1004687	0.27362000	2.3498356	21	7 31.1	19.6
131913 2002 BA_{17}	15.9	X	84.59925	7.54968	148.07880	6.32054	0.0628886	0.26661483	2.3908180	21	5 16.5	18.8
131914 2002 BD_{17}	14.9	X	120.95638	235.83242	332.50117	12.40699	0.0970838	0.22583176	2.6706237	21	9 12.7	19.0
131915 2002 BB_{18}	16.4	X	213.93678	39.95590	135.04777	5.68346	0.0112355	0.28986599	2.2611943	21	12 5.1	19.1
131916 2002 BJ_{18}	16.5	X	47.09616	112.81559	118.67724	10.49818	0.0981520	0.27276775	2.3547278	21	7 12.0	19.0
131917 2002 BM_{19}	15.7	X	66.75420	149.67528	93.23706	5.82759	0.1652397	0.27393808	2.3480163	21	9 12.8	18.7
131918 2002 BA_{20}	15.9	X	102.38215	200.98129	164.26680	4.56660	0.2023428	0.30421068	2.1895410	21	—	—
131919 2002 BM_{24}	16.2	X	186.63157	287.56097	163.76791	6.50326	0.1069329	0.27521970	2.3407213	21	6 26.4	19.6
131920 2002 BA_{27}	16.0	X	195.19313	102.70551	83.30806	5.22752	0.1952524	0.28488944	2.2874511	21	11 5.3	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
131921 2002 BH_{27}	16.2	X	129.04458	201.28517	6.81543	7.96368	0.0688328	0.28380816	2.2932574	21	9 27.9	19.2
131922 2002 BX_{28}	15.5	X	234.30206	121.08047	70.23955	10.31782	0.0753494	0.23982078	2.5657333	21	12 31.9	19.0
131923 2002 CR_{1}	16.4	X	59.33803	194.81597	25.52852	2.58424	0.1667558	0.27068012	2.3668195	21	7 28.6	18.9
131924 2002 CT_{1}	15.7	X	252.70596	19.18556	351.85177	7.49123	0.1268775	0.27526525	2.3404631	21	5 18.3	19.0
131925 2002 CB_{2}	16.2	X	102.87822	62.75100	350.38566	7.41462	0.1223508	0.25952190	2.4341839	21	1 30.5	19.0
131926 2002 CQ_{2}	17.1	X	179.89399	86.22979	74.21579	5.31900	0.0943372	0.28227684	2.3015436	21	9 25.1	20.3
131927 2002 CE_{3}	16.1	X	86.94183	111.69908	37.68382	4.66540	0.1224210	0.26736055	2.3863703	21	5 18.0	18.8
131928 2002 CV_{4}	15.9	X	126.66753	167.74835	19.23245	6.64283	0.1397468	0.27721012	2.3295033	21	9 3.2	19.3
131929 2002 CN_{5}	16.8	X	114.72491	205.71022	355.59764	3.13841	0.0839270	0.27682288	2.3316752	21	9 2.1	20.0
131930 2002 CC_{6}	16.1	X	30.84625	168.34589	29.21236	1.69329	0.1130570	0.26385766	2.4074443	21	4 21.9	18.4
131931 2002 CQ_{8}	17.1	X	126.38516	290.41125	221.33632	1.49597	0.1525378	0.27373855	2.3491572	21	7 15.3	20.3
131932 2002 CB_{11}	16.2	X	354.36071	110.18509	131.38617	3.49096	0.1594177	0.26368119	2.4085183	21	4 16.4	18.3
131933 2002 CC_{13}	15.6	X	144.24992	5.50505	109.87215	9.77813	0.1709586	0.27171982	2.3607781	21	6 17.4	19.2
131934 2002 CF_{13}	15.4	X	119.84936	33.06007	31.64222	5.97281	0.2122674	0.26280773	2.4138519	21	3 22.7	18.6
131935 2002 CW_{13}	16.5	X	44.44521	148.94412	354.83927	2.43899	0.1418982	0.25927709	2.4357158	21	2 28.3	18.6
131936 2002 CQ_{14}	16.4	X	111.20416	335.05775	113.80117	5.56536	0.1781446	0.26222854	2.4174050	21	4 9.7	19.6
131937 2002 CB_{15}	16.2	X	80.39925	275.48242	162.92373	3.45476	0.1639858	0.25921413	2.4361102	21	2 1.9	18.6
131938 2002 CC_{15}	16.6	X	240.98443	11.81092	79.53645	0.73029	0.0545698	0.28184263	2.3039069	21	9 7.5	19.3
131939 2002 CH_{15}	16.7	X	168.56423	159.47193	126.80805	6.50036	0.1570887	0.29717467	2.2239662	21	—	—
131940 2002 CR_{24}	16.1	X	82.66202	330.77753	237.95583	5.90703	0.0809047	0.27305278	2.3530888	21	7 28.8	19.1
131941 2002 CB_{25}	16.2	X	312.54611	238.48932	19.54336	1.36428	0.1603933	0.26067943	2.4269726	21	2 28.1	19.1
131942 2002 CC_{28}	16.0	X	305.62017	329.47626	59.36192	5.90424	0.1515106	0.28522286	2.2856681	21	9 5.2	18.1
131943 2002 CS_{28}	15.9	X	337.35620	341.98771	31.41128	4.67644	0.1264148	0.28666492	2.2779963	21	10 16.2	17.6
131944 2002 CF_{29}	16.4	X	55.30102	156.11612	8.59970	4.23036	0.0185940	0.26619049	2.3933581	21	4 7.1	19.1
131945 2002 CL_{29}	15.6	X	229.96631	28.63419	2.60726	6.09818	0.2234965	0.27579339	2.3374741	21	5 14.3	19.5
131946 2002 CQ_{30}	16.0	X	21.89137	163.26410	46.42868	4.39372	0.0920481	0.26622792	2.3931338	21	4 23.5	18.4
131947 2002 CM_{31}	16.9	X	88.56143	111.05718	20.76085	6.51162	0.1270183	0.26601949	2.3943837	21	4 25.5	19.8
131948 2002 CS_{31}	16.0	X	44.94295	237.88671	3.90638	5.74008	0.1512414	0.27279629	2.3545635	21	8 4.4	18.4
131949 2002 CC_{33}	16.6	X	241.65131	0.51623	65.69552	5.83318	0.1129801	0.27933250	2.3176885	21	7 26.8	19.7
131950 2002 CO_{33}	16.8	X	215.70463	89.53489	40.41470	7.34951	0.0490007	0.28295994	2.2978380	21	10 1.1	19.7
131951 2002 CS_{33}	16.7	X	266.97281	19.75801	45.29592	5.70602	0.1802802	0.28340285	2.2954433	21	8 19.3	19.5
131952 2002 CQ_{34}	16.0	X	8.37003	341.62358	11.67216	5.12087	0.2259548	0.28848292	2.2684157	21	11 29.4	18.1
131953 2002 CB_{36}	16.4	X	77.83322	78.00761	121.61798	3.41697	0.1145010	0.27251969	2.3561565	21	7 16.2	19.0
131954 2002 CD_{36}	16.2	X	64.59607	99.54894	113.88350	3.09781	0.1477497	0.27198546	2.3592408	21	7 22.4	18.8
131955 2002 CS_{36}	16.8	X	180.77786	99.06819	89.90076	2.61686	0.0901883	0.28592315	2.2819345	21	11 1.8	20.0
131956 2002 CK_{37}	16.0	X	309.55861	123.56473	115.86238	2.38277	0.1452973	0.25786561	2.4445960	21	2 2.3	19.3
131957 2002 CG_{39}	16.4	X	43.36358	321.47096	261.54060	2.59107	0.0925578	0.27077240	2.3662817	21	6 21.6	18.8
131958 2002 CS_{41}	16.4	X	67.71124	28.06745	213.90006	9.63324	0.1080060	0.27658012	2.3330394	21	8 27.4	19.4
131959 2002 CJ_{42}	15.9	X	82.01142	269.42895	268.96087	11.33048	0.1579708	0.26946199	2.3739471	21	6 28.3	18.7
131960 2002 CB_{43}	15.9	X	187.69666	74.82888	32.67101	4.45745	0.1876972	0.27606733	2.3359276	21	7 19.2	19.6
131961 2002 CD_{43}	15.6	X	43.67565	78.31120	86.04122	7.21410	0.1326355	0.26146226	2.4221259	21	4 2.4	18.0
131962 2002 CG_{45}	16.8	X	193.85119	337.69849	115.16846	1.92023	0.1328293	0.27551113	2.3390704	21	7 5.9	20.1
131963 2002 CT_{49}	16.2	X	228.58124	185.17765	213.54364	6.18706	0.1202925	0.27414595	2.3468293	21	6 1.2	19.6
131964 2002 CY_{49}	16.6	X	101.70332	295.65683	243.91698	5.64230	0.1212521	0.27261176	2.3556259	21	7 19.8	19.7
131965 2002 CU_{50}	16.5	X	346.22021	164.12787	212.18334	1.99907	0.1743685	0.28828749	2.2694407	21	11 12.9	17.9
131966 2002 CP_{51}	16.0	X	180.47246	317.87389	170.49591	1.34266	0.1896397	0.27729534	2.3290260	21	8 7.5	19.6
131967 2002 CR_{52}	15.5	X	348.13197	213.08190	43.71229	7.43798	0.0948789	0.26489803	2.4011368	21	5 3.0	18.0
131968 2002 CY_{52}	16.2	X	42.58820	158.18072	201.46845	3.47955	0.1931978	0.29556587	2.2320291	21	—	—
131969 2002 CG_{53}	15.9	X	98.24548	35.84746	153.34784	8.14807	0.2095080	0.27161864	2.3613644	21	8 10.0	19.3
131970 2002 CW_{53}	16.3	X	67.09970	354.26431	234.07664	1.63416	0.1582039	0.27203753	2.3589397	21	8 18.0	19.1
131971 2002 CQ_{54}	16.6	X	95.15241	347.21116	208.72919	2.79260	0.1740350	0.27211871	2.3584705	21	8 10.9	19.9
131972 2002 CG_{56}	15.9	X	264.55291	145.27735	309.13261	1.49075	0.0689865	0.23269153	2.6178756	21	10 5.5	19.2
131973 2002 CK_{56}	15.9	X	101.63427	3.81394	197.04954	2.11154	0.1577751	0.27262069	2.3555745	21	8 23.6	19.3
131974 2002 CQ_{57}	16.3	X	109.90393	271.38802	209.07030	1.77714	0.1592658	0.26539655	2.3981290	21	5 15.5	19.5
131975 2002 CB_{58}	16.7	X	124.00795	131.19950	130.85368	1.08062	0.1773928	0.28632222	2.2798137	21	12 5.9	20.2
131976 2002 CM_{61}	15.9	X	232.56101	8.22008	31.37076	7.15639	0.1490590	0.27546930	2.3393072	21	6 2.7	19.5
131977 2002 CB_{62}	16.2	X	97.51750	91.52616	36.72290	6.36022	0.1358232	0.26642707	2.3919411	21	5 5.5	19.2
131978 2002 CE_{62}	15.9	X	55.86684	139.40954	60.38239	7.45599	0.0448248	0.26961463	2.3730511	21	5 31.5	18.6
131979 2002 CJ_{64}	16.5	X	209.30336	41.63103	43.93021	7.17173	0.1658967	0.27725157	2.3292711	21	7 11.5	20.2
131980 2002 CG_{70}	16.7	X	239.50601	19.46130	112.88878	6.95678	0.0218243	0.28734859	2.2743816	21	11 10.9	19.5
131981 2002 CQ_{72}	17.2	X	159.32946	52.51750	125.93506	0.86346	0.1539671	0.28043580	2.3116056	21	9 23.2	20.5
131982 2002 CQ_{73}	17.0	X	140.28458	4.61754	121.56467	4.50013	0.1424251	0.27234316	2.3571745	21	6 25.1	20.3
131983 2002 CH_{77}	16.9	X	144.01214	351.00930	105.38908	2.34292	0.1383572	0.26938578	2.3743949	21	5 20.1	20.2
131984 2002 CZ_{77}	16.5	X	56.11910	140.39863	103.41372	3.31489	0.1242382	0.27402355	2.3475281	21	8 20.5	19.1
131985 2002 CL_{80}	16.7	X	26.56930	175.43805	64.54466	2.37057	0.1362164	0.26889776	2.3772668	21	6 21.6	18.8
131986 2002 CF_{81}	16.3	X	64.17989	269.38368	327.27442	4.50767	0.1872328	0.27261982	2.3555795	21	8 30.9	19.2
131987 2002 CR_{82}	15.3	X	213.37846	267.16263	35.11327	2.39208	0.0418778	0.20360865	2.8615756	21	1 23.1	19.5
131988 2002 CS_{83}	16.3	X	304.51517	163.61791	114.24091	4.87595	0.1675172	0.26188678	2.4195077	21	3 16.8	19.5
131989 2002 CF_{87}	16.7	X	345.55803	128.19353	330.86736	2.66921	0.0487551	0.24673831	2.5175513	21	—	—
131990 2002 CX_{89}	17.0	X	73.09823	254.73626	338.09937	1.82913	0.1828748	0.27342320	2.3509631	21	9 6.3	19.9
131991 2002 CU_{92}	16.7	X	268.96997	55.51326	333.63197	1.86675	0.1752621	0.27878115	2.3207434	21	6 28.8	19.6
131992 2002 CE_{94}	16.1	X	23.40102	186.19983	26.52276	1.75060	0.1220255	0.26435431	2.4044281	21	5 1.0	18.3
131993 2002 CQ_{94}	16.7	X	54.81753	190.80824	28.28567	2.56449	0.1304770	0.26943070	2.3741309	21	7 12.2	19.2
131994 2002 CH_{95}	15.6	X	149.50264	108.54673	146.12534	6.23158	0.0594082	0.23782268	2.5800841	21	12 14.5	19.3
131995 2002 CT_{95}	16.5	X	4.92941	98.74384	131.83563	2.72075	0.1615818	0.26336684	2.4104344	21	4 21.1	18.5
131996 2002 CC_{96}	16.2	X	62.05209	17.17131	133.70402	3.11527	0.1296095	0.26265754	2.4147720	21	4 13.2	18.6
131997 2002 CM_{97}	16.4	X	234.95147	350.95508	128.71605	4.99645	0.0895178	0.28324378	2.2963027	21	10 6.2	19.2
131998 2002 CP_{97}	16.1	X	333.11492	156.93367	68.44676	2.15431	0.1383627	0.25832019	2.4417273	21	2 17.4	18.8
131999 2002 CT_{97}	15.9	X	288.15259	245.00723	25.88019	2.98374	0.1499753	0.25807372	2.4432816	21	2 18.0	19.2
132000 2002 CZ_{97}	15.9	X	94.70070	17.01128	136.74795	3.24787	0.1661284	0.26751780	2.3854350	21	6 12.5	19.0