Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136001 2002 VS_{43}	15.5	X	340.35029	200.48139	124.11586	4.63951	0.1632487	0.21144890	2.7903955	20	8 11.3	18.1
136002 2002 VZ_{43}	15.0	X	53.54724	49.99922	290.91644	10.59733	0.2103290	0.22469112	2.6796543	20	—	—
136003 2002 VB_{53}	15.9	X	87.31515	208.93556	175.11147	0.98067	0.1699479	0.23541117	2.5976742	20	—	—
136004 2002 VR_{55}	16.0	X	16.68933	22.74062	318.64775	1.73050	0.1924201	0.21923384	2.7239407	20	11 17.6	19.0
136005 2002 VB_{56}	15.8	X	37.91781	164.35717	148.18249	5.96062	0.1097518	0.21798050	2.7343721	20	10 31.3	19.4
136006 2002 VR_{56}	16.0	X	132.82218	154.63981	187.01758	15.15123	0.2968875	0.23864132	2.5741802	20	1 10.4	20.3
136007 2002 VU_{59}	15.3	X	184.18296	236.45455	162.58607	2.42193	0.0121653	0.19572557	2.9379044	20	4 27.5	19.4
136008 2002 VB_{60}	15.9	X	77.05938	264.37711	97.97805	6.21435	0.2570948	0.23225192	2.6211779	20	—	—
136009 2002 VM_{61}	15.8	X	39.16520	21.27391	314.57799	2.04103	0.0908488	0.22149017	2.7054099	20	11 27.0	19.3
136010 2002 VJ_{63}	15.5	X	153.37389	340.50490	351.59864	5.24448	0.1438427	0.23815137	2.5777096	20	1 5.6	19.3
136011 2002 VB_{64}	15.2	X	37.20302	95.66148	250.41279	13.55201	0.1777688	0.22328749	2.6908725	20	12 20.3	18.8
136012 2002 VG_{64}	15.0	X	9.05268	302.78509	357.66648	6.85567	0.2346328	0.21249769	2.7812065	20	9 13.2	17.6
136013 2002 VP_{66}	15.8	X	342.56681	149.78302	180.34178	2.57180	0.1902071	0.21301625	2.7766910	20	8 23.5	18.3
136014 2002 VV_{67}	15.2	X	147.89251	314.50213	341.24208	10.91095	0.2211799	0.23394356	2.6085269	20	—	—
136015 2002 VT_{68}	13.8	X	210.10506	160.97276	92.17469	23.58701	0.0427722	0.17572177	3.1568383	20	—	—
136016 2002 VQ_{71}	15.2	X	296.79519	340.00861	75.52578	9.72951	0.1149032	0.21600900	2.7509846	20	10 9.3	18.6
136017 2002 VH_{74}	15.3	X	200.04909	299.69978	110.24035	3.60703	0.0511222	0.20046253	2.8914381	20	5 29.5	19.6
136018 2002 VP_{76}	15.2	X	260.58055	116.79900	227.66697	11.87558	0.1169085	0.19945842	2.9011341	20	5 8.5	19.4
136019 2002 VP_{77}	15.4	X	320.99786	253.23188	96.41407	5.34960	0.1167296	0.20986830	2.8043883	20	8 14.1	18.6
136020 2002 VM_{81}	16.6	X	172.46074	180.53281	168.78579	4.31838	0.1999285	0.29966337	2.2116358	20	2 9.9	20.1
136021 2002 VR_{82}	14.3	X	136.68384	3.16092	99.44298	12.48669	0.1065420	0.19301455	2.9653504	20	5 29.6	18.9
136022 2002 VV_{82}	14.6	X	161.14486	293.95530	86.19957	23.05088	0.1345103	0.18681352	3.0306132	20	3 27.1	19.9
136023 2002 VW_{85}	13.9	X	42.36522	57.50860	27.97161	27.15610	0.2478020	0.17529110	3.1620069	20	1 29.3	17.8
136024 2002 VK_{87}	14.9	X	12.56411	78.50885	265.48067	5.84321	0.1072393	0.21734270	2.7397189	20	10 31.6	18.3
136025 2002 VH_{88}	15.8	X	66.07690	343.32719	323.19263	4.40478	0.0251673	0.22028468	2.7152710	20	11 12.9	19.6
136026 2002 VY_{96}	15.1	X	244.42321	339.29313	0.68172	10.25190	0.1174278	0.19761482	2.9191497	20	4 12.4	19.5
136027 2002 VS_{100}	15.9	X	38.04969	26.48566	350.94760	4.07350	0.0762950	0.22586921	2.6703285	20	—	—
136028 2002 VR_{101}	14.2	X	64.81705	3.31324	81.97183	29.06907	0.1322600	0.17988984	3.1078851	20	2 21.2	18.8
136029 2002 VU_{104}	15.9	X	312.29537	97.93988	346.12642	4.32189	0.1343775	0.22050355	2.7134740	20	12 8.2	18.8
136030 2002 VV_{104}	15.1	X	269.71118	58.69523	29.82595	8.56821	0.0634981	0.21481955	2.7611300	20	10 14.8	18.7
136031 2002 VK_{109}	14.9	X	156.78757	330.96570	49.36477	9.24843	0.0931933	0.18757507	3.0224049	20	3 12.4	19.6
136032 2002 VP_{110}	14.2	X	88.85439	349.60630	93.35648	12.28344	0.2333010	0.17975411	3.1094494	20	4 3.1	18.8
136033 2002 VM_{113}	15.5	X	185.66691	355.67983	70.38187	2.98252	0.1290804	0.19839063	2.9115345	20	5 31.9	19.9
136034 2002 VU_{117}	14.8	X	289.25161	58.17672	334.82384	24.51639	0.1624172	0.21123440	2.7922842	20	8 17.8	18.3
136035 2002 VC_{120}	15.3	X	293.37858	339.33892	10.56565	6.38009	0.2451969	0.20640707	2.8356525	20	6 6.3	19.1
136036 2002 VK_{122}	15.1	X	348.23407	16.65401	348.54814	8.97431	0.1960485	0.21761312	2.7374487	20	10 26.3	17.9
136037 2002 VG_{129}	15.7	X	19.82850	118.70707	218.59900	2.90912	0.0451402	0.21517729	2.7580688	20	10 26.4	19.3
136038 2002 WR	15.0	X	301.41541	51.64252	6.65336	33.05403	0.2938069	0.21503696	2.7592686	20	9 25.1	17.6
136039 2002 WR_{4}	15.4	X	12.86548	54.75564	272.80312	8.19537	0.1841167	0.21791006	2.7349613	20	10 18.8	18.6
136040 2002 WL_{7}	15.0	X	33.10969	147.29368	343.10245	0.54508	0.1368943	0.18224052	3.0811020	20	2 19.2	18.6
136041 2002 WY_{11}	15.0	X	281.66184	277.72317	135.61221	11.85613	0.2496496	0.21109870	2.7934807	20	8 15.9	18.5
136042 2002 WJ_{12}	15.0	X	340.92500	241.99373	117.90065	17.74611	0.2625661	0.21552597	2.7550933	20	10 20.1	17.7
136043 2002 WB_{14}	15.9	X	355.54684	194.36422	178.50211	5.33292	0.0876667	0.21711667	2.7416201	20	11 13.6	19.2
136044 2002 XH_{6}	15.6	X	91.95043	208.65125	132.28555	7.27961	0.2784307	0.23007927	2.6376534	20	—	—
136045 2002 XK_{8}	15.6	X	39.98051	356.74120	341.15061	6.22429	0.1529862	0.22164998	2.7041093	20	12 9.4	19.3
136046 2002 XW_{8}	15.3	X	151.61843	102.66921	278.18879	4.15866	0.0601119	0.18761760	3.0219481	20	2 27.5	19.8
136047 2002 XK_{16}	14.7	X	84.04822	98.86823	2.01218	11.08692	0.0213101	0.18843161	3.0132387	20	3 13.9	18.7
136048 2002 XD_{17}	14.6	X	21.25172	166.89217	294.36372	14.22826	0.0293068	0.17777215	3.1325180	20	—	—
136049 2002 XN_{23}	15.1	X	23.71166	85.14265	296.04551	9.23937	0.1689831	0.22411416	2.6842514	20	—	—
136050 2002 XH_{26}	15.2	X	222.04821	82.21655	302.01653	6.43309	0.0661029	0.19981267	2.8977041	20	5 18.9	19.6
136051 2002 XF_{27}	15.1	X	310.93248	37.92906	333.06968	7.22267	0.1076472	0.21163195	2.7887862	20	8 26.4	18.4
136052 2002 XL_{30}	14.7	X	55.66883	180.11748	297.34796	13.44083	0.0754313	0.18460328	3.0547554	20	2 26.3	18.9
136053 2002 XQ_{30}	14.9	X	118.21693	302.07268	9.12779	12.90032	0.2584802	0.22917793	2.6445647	20	—	—
136054 2002 XN_{33}	15.1	X	355.78124	310.22577	105.26247	13.79384	0.1604103	0.22504768	2.6768232	20	—	—
136055 2002 XR_{36}	14.9	X	307.83272	7.22749	32.61687	15.54708	0.1685654	0.21263655	2.7799956	20	9 30.5	18.0
136056 2002 XQ_{49}	15.4	X	74.92646	340.24860	159.20138	1.39890	0.1862467	0.18769542	3.0211128	20	5 13.3	19.3
136057 2002 XZ_{49}	15.6	X	311.40310	347.22313	356.90415	1.39261	0.0748252	0.20452576	2.8530149	20	7 23.9	19.1
136058 2002 XH_{53}	15.4	X	340.64899	274.29222	74.04347	3.00989	0.2024297	0.21291553	2.7775666	20	9 18.9	17.8
136059 2002 XV_{55}	14.3	X	139.59332	149.54351	267.18353	12.72936	0.0891678	0.18386690	3.0629060	20	3 27.5	19.2
136060 2002 XD_{73}	14.9	X	8.24306	292.19432	42.78496	9.30860	0.2080169	0.21509660	2.7587585	20	10 28.3	17.7
136061 2002 XK_{75}	15.9	X	2.43535	71.39419	2.13067	3.19949	0.2202690	0.22508048	2.6765632	20	—	—
136062 2002 XJ_{76}	15.0	X	140.90809	18.02098	41.25304	3.77961	0.1539549	0.18794950	3.0183894	20	4 12.9	19.6
136063 2002 XC_{78}	14.9	X	217.10273	62.37971	274.10065	14.08515	0.0659858	0.19039719	2.9924646	20	3 9.4	19.7
136064 2002 XW_{83}	14.8	X	19.86047	267.64516	113.53589	13.90996	0.1995233	0.22395329	2.6855366	20	—	—
136065 2002 XD_{84}	15.3	X	310.47627	295.05312	121.00889	14.49957	0.1906053	0.21644056	2.7473265	20	10 29.8	18.4
136066 2002 XU_{84}	14.7	X	131.14000	130.83653	299.03378	16.99061	0.2034808	0.18552118	3.0446711	20	4 11.7	19.9
136067 2002 XK_{88}	14.5	X	49.35238	77.20703	348.62427	28.17604	0.3450030	0.22910346	2.6451377	20	1 7.3	17.0
136068 2002 XH_{93}	14.9	X	22.06706	56.86446	69.07336	6.21795	0.1060330	0.17875359	3.1210415	20	1 27.7	18.7
136069 2002 XO_{98}	15.7	X	239.66002	337.21589	45.30952	2.82066	0.0791046	0.20028387	2.8931575	20	6 6.2	19.9
136070 2002 XO_{102}	15.5	X	5.94982	231.72978	83.23589	8.96738	0.3054468	0.21305582	2.7763473	20	10 14.6	18.1
136071 2002 XF_{106}	15.2	X	138.11672	122.81147	307.14564	7.51447	0.0702678	0.19038904	2.9925500	20	4 11.2	19.7
136072 2002 YN	15.7	X	305.85117	305.22966	98.56280	10.11265	0.2793889	0.21161641	2.7889228	20	9 16.3	18.5
136073 2002 YH_{6}	14.8	X	205.42334	55.48895	276.50700	12.60800	0.0829862	0.18388991	3.0626506	20	2 22.8	19.7
136074 2002 YJ_{16}	14.4	X	22.60100	77.04505	77.57919	24.99955	0.0714023	0.18407066	3.0606453	20	3 16.4	18.9
136075 2002 YD_{29}	14.8	X	160.49078	260.78053	109.69995	14.01343	0.1478458	0.18182043	3.0858461	20	3 8.6	19.9
136076 2003 AC_{8}	14.1	X	56.42043	43.78999	42.08848	17.94310	0.1460855	0.17725883	3.1385626	20	2 10.2	18.3
136077 2003 AP_{17}	14.8	X	326.15819	32.53449	7.92425	9.40164	0.1934554	0.21687192	2.7436824	20	10 30.5	17.4
136078 2003 AH_{30}	14.4	X	110.97218	85.05164	297.42674	12.09730	0.1415240	0.17430066	3.1739740	20	1 27.8	19.0
136079 2003 AR_{36}	14.8	X	35.20583	256.63757	111.39410	12.28103	0.2934644	0.22267840	2.6957771	20	—	—
136080 2003 AQ_{49}	14.5	X	20.68495	342.20884	97.93114	16.20200	0.0534619	0.16874363	3.2432801	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136081 2003 AH_{57}	14.5	X	84.50221	109.91220	316.90391	21.30095	0.1157666	0.17627976	3.1501731	20	2 12.9	18.7
136082 2003 AH_{60}	16.2	X	304.36977	83.26053	18.59870	3.69441	0.1264805	0.27183834	2.3600919	20	—	—
136083 2003 AY_{65}	14.3	X	94.52418	33.78029	342.27127	13.42372	0.0955558	0.17108942	3.2135665	20	—	—
136084 2003 AE_{66}	14.2	X	329.33633	190.02811	332.52016	17.94946	0.0973557	0.17078523	3.2173811	20	—	—
136085 2003 AQ_{74}	14.6	X	21.95321	161.46120	330.60543	11.27261	0.1306642	0.17626165	3.1503889	20	2 4.9	18.3
136086 2003 AC_{77}	15.4	X	334.63488	67.42993	0.70542	9.30098	0.2015312	0.21835053	2.7312821	20	—	—
136087 2003 AO_{86}	14.4	X	333.01129	31.00236	123.13221	12.55524	0.0951646	0.17393908	3.1783711	20	—	—
136088 2003 BO_{7}	15.4	X	350.43699	285.17818	184.95475	11.98999	0.1334735	0.22847642	2.6499751	20	—	—
136089 2003 BG_{17}	14.3	X	154.74052	45.51431	349.26117	19.40653	0.1252506	0.17973897	3.1096240	20	3 22.2	19.2
136090 2003 BZ_{28}	14.7	X	51.31940	353.73004	112.83505	11.92047	0.0813506	0.18046696	3.1012557	20	2 15.5	18.7
136091 2003 BK_{31}	14.8	X	189.92729	226.92331	137.08372	17.40685	0.1789194	0.18334517	3.0687139	20	3 27.2	20.1
136092 2003 BN_{36}	14.6	X	58.24904	104.43823	311.29869	14.50160	0.1016809	0.16957203	3.2327087	20	—	—
136093 2003 BA_{48}	16.1	X	263.55181	164.19183	266.89162	2.47533	0.2030916	0.26191506	2.4193335	20	8 26.3	19.1
136094 2003 BC_{51}	16.8	X	279.89571	307.74965	190.93386	1.52588	0.1812418	0.27247908	2.3563905	20	—	—
136095 2003 BG_{68}	15.7	X	330.30908	312.90321	166.25101	13.25779	0.0741897	0.21801833	2.7340558	20	—	—
136096 2003 CV_{8}	14.5	X	101.95934	281.09137	127.48560	15.80558	0.2675401	0.17621971	3.1508887	20	3 9.1	19.3
136097 2003 CS_{17}	15.3	X	15.61767	176.87684	312.17215	11.91828	0.1240358	0.22625169	2.6673182	20	1 10.1	18.3
136098 2003 DD	15.5	X	304.93112	81.52800	328.04508	5.22279	0.0688377	0.20538607	2.8450423	20	10 8.7	19.1
136099 2003 DD_{4}	15.2	X	187.43460	132.49672	142.07658	5.91133	0.1325596	0.21654089	2.7464779	20	—	—
136100 2003 DW_{12}	14.9	X	347.35673	287.50500	175.84329	2.39677	0.0676387	0.15959266	3.3661033	20	—	—
136101 2003 EA_{2}	14.4	X	186.66805	14.03549	354.83314	16.60881	0.1999933	0.18023562	3.1039089	20	3 23.8	19.6
136102 2003 EW_{2}	15.3	X	263.13260	40.28335	162.30880	11.48446	0.0952811	0.21811189	2.7332739	20	—	—
136103 2003 EN_{22}	15.3	X	234.93722	43.83638	160.36754	9.58485	0.1065267	0.21374963	2.7703361	20	—	—
136104 2003 EO_{22}	14.8	X	342.83556	153.13809	40.68963	5.35307	0.0982664	0.17190998	3.2033322	20	2 24.6	18.9
136105 2003 EC_{27}	16.6	X	227.56573	342.26311	180.81030	1.77924	0.1495857	0.26478409	2.4018256	20	11 22.5	19.6
136106 2003 EW_{33}	16.5	X	269.21435	234.03921	256.95154	1.55699	0.1443026	0.26707901	2.3880470	20	12 12.3	18.8
136107 2003 EY_{58}	15.5	X	90.55624	294.95584	134.34520	13.97008	0.1674332	0.22945016	2.6424725	20	2 28.7	18.9
136108 Haumea	0.2	X	217.77009	238.78200	122.16242	28.21354	0.1949020	0.00347345	43.1812864	20	4 27.3	17.3
136109 2003 FA_{22}	17.2	X	277.36242	79.59097	187.70813	4.15189	0.1590959	0.28428499	2.2906923	20	2 5.6	20.4
136110 2003 FZ_{60}	15.5	X	165.19565	186.48994	146.50242	6.18159	0.0723813	0.22134664	2.7065793	20	1 13.7	19.4
136111 2003 FC_{79}	15.6	X	26.21607	129.26600	349.13841	5.84468	0.0819531	0.22338206	2.6901130	20	1 15.3	18.8
136112 2003 FY_{104}	16.8	X	190.21884	148.16956	105.01411	2.96746	0.1741493	0.26764857	2.3846580	20	—	—
136113 2003 GA_{5}	15.3	X	348.07477	211.05660	30.48156	5.50279	0.0921029	0.17720534	3.1391942	20	4 30.5	19.3
136114 2003 GU_{37}	17.2	X	25.07871	50.33522	195.97869	1.65324	0.1233042	0.29734931	2.2230953	20	7 17.9	19.2
136115 2003 HC_{3}	15.3	X	69.56464	180.14002	207.31436	6.54841	0.0632050	0.21280533	2.7785255	20	—	—
136116 2003 HA_{16}	16.7	X	230.37693	52.64293	131.25590	24.81770	0.0890699	0.37780421	1.8950682	20	—	—
136117 2003 HL_{28}	16.7	X	176.37596	191.49987	40.28562	21.46977	0.0445699	0.37511237	1.9041235	20	—	—
136118 2003 KV	16.3	X	54.65938	267.45426	312.08383	3.20705	0.1145871	0.29541651	2.2327814	20	7 26.9	18.7
136119 2003 KH_{19}	15.7	X	49.73557	231.25323	83.01622	8.03601	0.2096658	0.24667576	2.5179768	20	12 5.3	19.3
136120 2003 LG_{7}	7.9	X	16.90241	343.03849	238.30262	20.07416	0.4835263	0.00197235	62.9718285	20	6 21.8	23.6
136121 2003 OA	17.5	X	76.95723	32.28693	208.28508	3.50093	0.1385788	0.30232330	2.1986443	20	9 30.5	20.2
136122 2003 OQ_{29}	16.1	X	340.13272	237.04488	134.50784	7.55062	0.2228830	0.29467327	2.2365343	20	11 25.7	17.8
136123 2003 QK_{40}	16.9	X	189.93494	350.62471	344.75439	1.61209	0.1596377	0.26514929	2.3996196	20	2 10.9	20.8
136124 2003 QC_{56}	16.5	X	117.34091	253.86724	119.08646	3.33859	0.2093875	0.25762293	2.4461310	20	1 21.4	19.8
136125 2003 QU_{65}	15.9	X	306.89146	276.82901	119.02396	5.91957	0.0717166	0.23431642	2.6057590	20	10 4.0	19.0
136126 2003 QN_{79}	16.3	X	24.11241	270.02791	78.32833	6.86051	0.2317823	0.29467877	2.2365064	20	—	—
136127 2003 RA_{15}	14.5	X	108.25163	327.55623	310.27204	11.78477	0.1421828	0.18476334	3.0529909	20	11 29.4	19.5
136128 2003 SO_{36}	16.8	X	297.76002	17.89995	44.33717	0.89526	0.1205204	0.29285784	2.2457676	20	11 3.6	18.7
136129 2003 SL_{57}	17.1	X	54.63307	183.53089	199.12365	4.17108	0.1719805	0.30560623	2.1828702	20	—	—
136130 2003 SH_{87}	16.4	X	259.53867	259.93000	102.93687	5.61327	0.2387773	0.27909979	2.3189767	20	5 16.2	19.8
136131 2003 SE_{96}	15.6	X	271.02070	104.13979	302.87119	7.87772	0.1196128	0.28544331	2.2844911	20	8 19.1	18.0
136132 2003 SC_{98}	16.0	X	28.12457	314.76835	285.84420	9.87208	0.1735651	0.28074482	2.3099090	20	7 20.6	17.9
136133 2003 SC_{110}	16.4	X	356.65967	323.31322	4.98151	6.34328	0.1353445	0.28851527	2.2682461	20	10 3.7	18.3
136134 2003 SY_{117}	16.5	X	37.42184	225.89813	8.73668	0.76013	0.0180075	0.27853656	2.3221018	20	7 5.4	19.1
136135 2003 SN_{138}	16.9	X	76.40793	62.96235	283.12297	6.07305	0.1571157	0.30585499	2.1816865	20	—	—
136136 2003 ST_{147}	16.4	X	22.94537	14.12492	330.55714	7.61644	0.0288357	0.29463048	2.2367508	20	11 23.4	19.2
136137 2003 SU_{188}	15.4	X	167.73435	318.91610	84.83615	5.42888	0.1187345	0.20998247	2.8033717	20	4 18.6	19.8
136138 2003 SH_{199}	16.4	X	359.62509	133.37671	234.58527	6.22918	0.1251874	0.29424779	2.2386897	20	12 9.1	18.5
136139 2003 SH_{201}	15.1	X	91.42450	250.66814	300.86363	22.72541	0.2601184	0.28298481	2.2977034	20	8 15.5	18.9
136140 2003 SS_{220}	16.1	X	326.95151	297.20459	50.95721	4.35611	0.1809176	0.28501714	2.2867678	20	9 3.9	17.6
136141 2003 SM_{228}	17.3	X	79.20638	324.49374	313.76969	0.67092	0.1513680	0.29761245	2.2217848	20	11 23.4	20.4
136142 2003 ST_{235}	16.6	X	89.61700	44.85771	243.59477	3.25905	0.1677844	0.29981520	2.2108891	20	12 18.3	19.7
136143 2003 SQ_{251}	16.2	X	268.83566	184.75895	225.71672	4.19297	0.1453444	0.28246689	2.3005112	20	8 15.9	18.9
136144 2003 SV_{288}	16.6	X	124.44385	228.17501	39.85585	6.16751	0.1517348	0.30221727	2.1991585	20	12 25.1	20.0
136145 2003 SC_{291}	16.6	X	10.62799	336.36026	21.02444	5.48307	0.1759545	0.29434192	2.2382124	20	12 19.1	19.0
136146 2003 SA_{294}	17.0	X	87.14480	215.68730	102.60798	4.17876	0.2451593	0.30255861	2.1975042	20	—	—
136147 2003 SU_{296}	15.2	X	39.89327	91.87605	358.95676	10.87328	0.2487906	0.24426140	2.5345420	20	—	—
136148 2003 SC_{306}	16.4	X	30.04155	35.55443	311.87316	6.62833	0.1334620	0.29568293	2.2314400	20	12 26.3	19.2
136149 2003 SR_{313}	16.7	X	91.01790	257.75022	68.87656	7.91096	0.2895297	0.30571510	2.1823519	20	—	—
136150 2003 TJ	15.6	X	276.94336	33.40316	5.30142	25.19305	0.2702531	0.28110205	2.3079516	20	8 4.4	18.9
136151 2003 TM_{2}	16.1	X	5.54722	235.94233	75.48086	9.02985	0.1605337	0.28757494	2.2731880	20	10 4.5	18.3
136152 2003 TQ_{12}	16.6	X	349.01685	189.42142	218.31964	5.02630	0.1511424	0.29713636	2.2241574	20	—	—
136153 2003 TH_{13}	15.9	X	264.40118	353.87464	71.29855	25.89613	0.2039586	0.28441752	2.2899807	20	9 8.4	19.3
136154 2003 TX_{14}	16.7	X	60.46641	157.81845	159.58175	6.68964	0.1434472	0.29768762	2.2214107	20	12 23.7	19.9
136155 2003 TQ_{24}	17.2	X	35.00201	318.42283	276.94951	3.54815	0.1157411	0.28055580	2.3109465	20	7 16.4	19.5
136156 2003 TX_{27}	15.7	X	116.26621	137.01554	123.69755	14.55698	0.0283579	0.23563026	2.5960637	20	11 25.6	19.6
136157 2003 TQ_{39}	16.9	X	10.99480	294.66109	324.64201	5.31816	0.1474820	0.28083816	2.3093972	20	7 13.2	18.7
136158 2003 UU_{14}	16.4	X	146.20331	293.97157	226.47394	5.98231	0.0375496	0.28250441	2.3003075	20	8 21.5	19.4
136159 2003 UE_{15}	17.2	X	65.32983	51.25782	345.95057	0.91220	0.1280635	0.30850422	2.1691786	20	—	—
136160 2003 UU_{15}	16.7	X	338.77278	247.62140	91.49661	2.01444	0.1862660	0.28612138	2.2808804	20	9 17.8	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136161 2003 US_{23}	16.8	X	5.38512	16.84100	26.23316	2.47393	0.1589008	0.29836907	2.2180271	20	—	—
136162 2003 UR_{29}	16.3	X	279.74507	11.70931	41.90266	7.20563	0.1060891	0.28568123	2.2832226	20	9 21.1	18.6
136163 2003 UY_{40}	16.7	X	1.62467	323.42937	353.14466	2.03296	0.2302689	0.28744797	2.2738574	20	10 9.9	18.2
136164 2003 UO_{47}	16.9	X	116.14606	2.12927	334.61727	1.68194	0.1485059	0.30889093	2.1673678	20	—	—
136165 2003 UQ_{48}	15.4	X	249.07063	127.35991	74.82476	14.06133	0.1290639	0.24482531	2.5306486	20	—	—
136166 2003 UH_{73}	15.2	X	219.58819	346.12037	215.81827	4.41689	0.0767509	0.18071880	3.0983740	20	12 21.8	19.7
136167 2003 UP_{85}	16.8	X	108.32167	215.42366	70.13969	3.31254	0.1490301	0.29916292	2.2141016	20	12 31.5	20.1
136168 2003 UC_{98}	16.3	X	149.39941	274.61899	142.30988	6.61725	0.1281417	0.26351471	2.4095326	20	4 14.9	19.8
136169 2003 UN_{109}	16.8	X	347.50748	344.08935	338.26997	2.40792	0.1425761	0.28441988	2.2899680	20	9 4.8	18.6
136170 2003 UD_{118}	15.7	X	238.15695	138.74311	230.80142	5.17560	0.0132076	0.21542178	2.7559815	20	5 26.8	19.4
136171 2003 UE_{119}	16.3	X	315.44128	145.77823	134.21112	0.76212	0.0271004	0.21410135	2.7673013	20	5 8.9	20.0
136172 2003 US_{123}	16.2	X	345.77357	84.69785	214.24784	10.10821	0.1496891	0.22081576	2.7109157	20	7 12.9	19.2
136173 2003 UU_{129}	15.9	X	172.61174	193.74475	292.85976	6.81484	0.1283384	0.27736824	2.3286179	20	8 6.9	19.4
136174 2003 UJ_{132}	16.2	X	4.52951	17.74585	295.11925	5.86984	0.1946832	0.28597145	2.2816775	20	9 29.8	18.2
136175 2003 UV_{132}	16.3	X	322.46304	18.81465	289.40184	5.81566	0.1218255	0.27630466	2.3345897	20	6 18.3	18.6
136176 2003 UU_{141}	15.7	X	266.95216	224.60204	142.22461	6.47821	0.0456610	0.22032764	2.7149181	20	6 25.6	19.4
136177 2003 UY_{143}	16.6	X	16.54569	336.54774	26.47721	5.46871	0.1684925	0.29495093	2.2351304	20	—	—
136178 2003 UJ_{146}	16.4	X	339.17117	132.86554	179.90920	6.35412	0.1320233	0.28084213	2.3093755	20	7 28.9	18.5
136179 2003 UE_{147}	16.0	X	198.72676	334.51646	80.28989	7.88557	0.0961791	0.27140344	2.3626124	20	6 1.2	19.2
136180 2003 UJ_{183}	16.8	X	69.27920	141.38941	124.54052	1.94016	0.0818346	0.28870906	2.2672310	20	10 18.1	19.5
136181 2003 UB_{199}	17.3	X	125.19994	30.15843	304.77701	0.91941	0.0307912	0.31016034	2.1614500	20	—	—
136182 2003 UE_{202}	17.2	X	342.32881	243.45711	350.41324	0.96914	0.1443705	0.27031146	2.3689710	20	3 28.3	19.4
136183 2003 UH_{208}	14.3	X	1.77618	86.90282	278.84915	15.28505	0.3202779	0.22930700	2.6435722	20	12 21.3	17.0
136184 2003 UV_{209}	16.4	X	38.40753	20.86286	297.47809	3.80321	0.2456425	0.29400225	2.2399360	20	12 12.1	19.4
136185 2003 UH_{210}	16.4	X	264.36833	301.52188	37.51596	10.43162	0.1033810	0.27225012	2.3577115	20	5 4.9	19.4
136186 2003 UV_{210}	16.4	X	281.41158	355.47814	32.97605	7.16393	0.1229935	0.28179059	2.3041906	20	8 12.8	18.9
136187 2003 UP_{218}	15.9	X	290.39334	342.41817	77.36264	8.04177	0.2317571	0.28636500	2.2795866	20	10 3.7	17.7
136188 2003 UC_{232}	16.8	X	140.01281	352.07102	39.48899	2.50881	0.0754808	0.20159865	2.8805647	20	3 1.7	21.1
136189 2003 UT_{237}	17.4	X	173.15973	331.54953	29.47796	1.16113	0.1630284	0.31973630	2.1180754	20	2 22.4	20.2
136190 2003 UU_{243}	16.5	X	85.17136	353.32157	339.73608	1.56304	0.1762836	0.30122989	2.2039615	20	—	—
136191 2003 UU_{247}	16.5	X	307.43835	202.65617	174.95188	6.26517	0.1298205	0.28433444	2.2904267	20	9 8.8	18.3
136192 2003 UT_{253}	15.9	X	246.48550	302.93886	147.40435	23.65674	0.2045255	0.28681855	2.2771828	20	9 5.1	18.8
136193 2003 UX_{256}	16.2	X	17.27947	193.69562	157.70590	4.23688	0.1748939	0.29340992	2.2429496	20	12 20.2	18.7
136194 2003 UX_{267}	16.8	X	59.75683	130.02575	207.58812	1.92732	0.1914898	0.29834333	2.2181547	20	—	—
136195 2003 UU_{276}	16.0	X	132.61897	154.57312	296.16795	4.92593	0.0614688	0.26698180	2.3886267	20	4 28.9	19.3
136196 2003 UF_{279}	16.6	X	317.65125	142.92789	209.13987	5.94915	0.1628508	0.28264209	2.2995604	20	8 13.2	18.5
136197 Johnandrews	17.2	X	337.32529	85.61311	208.46252	2.79601	0.1806600	0.27825298	2.3236792	20	6 20.7	18.7
136198 2003 UJ_{296}	15.9	X	315.62082	151.68942	122.04444	0.59700	0.0278943	0.21261236	2.7802064	20	4 30.8	19.7
136199 Eris	−1.1	X	205.99007	151.63793	35.95080	44.03934	0.4360328	0.00176287	67.8666046	20	10 21.4	18.7
136200 2003 VS_{5}	16.0	X	241.23958	232.50000	57.73035	6.90231	0.1014231	0.25953237	2.4341183	20	2 8.4	19.6
136201 2003 VM_{8}	17.3	X	67.08648	221.51423	132.86152	0.91091	0.2148516	0.30206759	2.1998849	20	—	—
136202 2003 WY_{3}	16.2	X	292.76457	339.02530	45.33946	5.39180	0.1618681	0.28215341	2.3022148	20	8 19.7	18.4
136203 2003 WD_{6}	16.4	X	279.23605	139.94991	246.39878	4.12769	0.2006406	0.28034216	2.3121203	20	7 17.9	19.0
136204 2003 WL_{7}	8.8	X	36.90174	70.15335	4.65638	11.17694	0.2550001	0.01098271	20.0445503	20	2 5.6	21.0
136205 2003 WM_{10}	16.0	X	159.42185	239.77321	355.76734	6.42090	0.1430778	0.29465089	2.2366475	20	12 16.4	19.4
136206 2003 WN_{19}	16.2	X	17.99573	350.23675	0.45371	6.25348	0.1519158	0.29253125	2.2474388	20	12 15.7	18.9
136207 2003 WW_{19}	16.3	X	315.52411	38.88874	322.88705	5.65955	0.1885454	0.28398841	2.2922869	20	8 24.8	17.8
136208 2003 WD_{20}	16.2	X	26.33782	19.70110	301.87258	7.22064	0.1566192	0.28927185	2.2642894	20	11 15.1	19.0
136209 2003 WF_{20}	16.0	X	350.07664	35.30550	311.28585	7.44162	0.2610914	0.28885734	2.2664551	20	11 5.4	17.8
136210 2003 WG_{30}	16.6	X	100.75575	184.72429	305.47879	2.99897	0.1044416	0.26571308	2.3962241	20	5 19.8	19.8
136211 2003 WN_{33}	16.2	X	147.49727	138.42242	285.99858	5.30175	0.1070454	0.26340213	2.4102191	20	4 15.6	19.7
136212 2003 WA_{35}	16.3	X	308.54134	116.72043	270.07325	3.27956	0.1189393	0.28519278	2.2858288	20	9 25.4	18.4
136213 2003 WJ_{50}	15.5	X	178.66005	241.99337	34.88472	13.55714	0.1387521	0.24523125	2.5278551	20	—	—
136214 2003 WM_{50}	16.5	X	25.42808	20.46117	317.25562	6.23769	0.2039523	0.29206140	2.2498485	20	12 16.4	19.4
136215 2003 WK_{61}	15.6	X	197.54444	194.12535	61.79895	12.88236	0.0519832	0.24424083	2.5346842	20	—	—
136216 2003 WK_{71}	17.0	X	291.84664	51.54558	309.53826	1.28216	0.0352707	0.27893809	2.3198728	20	7 29.1	19.7
136217 2003 WK_{72}	16.5	X	9.56608	347.05066	8.29371	4.98713	0.1965449	0.29175511	2.2514228	20	12 17.3	18.9
136218 2003 WR_{73}	16.6	X	15.09960	67.08144	308.25152	2.16599	0.1670989	0.29432943	2.2382758	20	—	—
136219 2003 WZ_{76}	16.4	X	158.64755	320.68215	134.86161	10.03827	0.1755562	0.26805043	2.3822740	20	6 14.8	20.3
136220 2003 WO_{78}	16.6	X	289.77493	19.45616	321.13749	3.26987	0.1653101	0.27702335	2.3305502	20	6 2.1	19.2
136221 2003 WW_{80}	16.7	X	6.27736	349.46407	331.18075	2.30225	0.2456924	0.28701818	2.2761268	20	10 28.3	18.5
136222 2003 WE_{82}	16.4	X	55.43703	22.55627	329.18054	6.79059	0.1542025	0.29847510	2.2175018	20	—	—
136223 2003 WL_{84}	16.4	X	3.75811	351.08833	299.91100	6.02522	0.1115955	0.28130813	2.3068243	20	8 13.6	18.5
136224 2003 WH_{86}	16.1	X	68.39440	352.03725	226.56267	5.55517	0.1300192	0.27722965	2.3293939	20	8 13.0	19.1
136225 2003 WJ_{99}	16.1	X	241.76410	307.93743	334.11243	4.90340	0.0836115	0.25653076	2.4530689	20	1 29.3	19.6
136226 2003 WH_{100}	16.6	X	274.91436	269.25708	49.99359	7.09025	0.1356238	0.26860306	2.3790053	20	4 18.9	19.8
136227 2003 WZ_{103}	16.7	X	26.53276	138.89281	241.07743	1.15126	0.1525559	0.29690183	2.2253285	20	—	—
136228 2003 WN_{106}	16.1	X	214.31786	328.46872	113.34889	6.23310	0.1926723	0.27238672	2.3569232	20	7 17.8	19.8
136229 2003 WG_{112}	15.7	X	235.48148	6.09038	291.39238	5.25892	0.1098875	0.25889087	2.4381377	20	2 7.4	19.4
136230 2003 WC_{117}	16.2	X	205.07998	149.78164	277.67737	5.43972	0.0817794	0.27240122	2.3568396	20	6 26.7	19.4
136231 2003 WH_{118}	16.2	X	282.05750	351.05277	34.00516	7.07342	0.1384955	0.27962261	2.3160852	20	8 5.2	18.8
136232 2003 WH_{119}	16.2	X	343.62898	334.92920	46.67436	7.23182	0.1657468	0.28979032	2.2615879	20	12 4.9	18.2
136233 2003 WX_{120}	16.4	X	29.10716	345.69976	352.68314	4.55415	0.2014525	0.29116550	2.2544612	20	12 21.3	19.2
136234 2003 WA_{121}	16.0	X	278.39830	121.20108	305.01347	4.50686	0.1484766	0.28391639	2.2926745	20	9 24.4	18.3
136235 2003 WL_{122}	16.1	X	259.57227	324.56001	275.01670	5.43877	0.0841766	0.25150889	2.4856148	20	—	—
136236 2003 WP_{137}	16.3	X	234.31983	208.46771	248.32323	4.86353	0.1036186	0.28095025	2.3087829	20	9 8.3	19.2
136237 2003 WU_{141}	15.1	X	62.40948	266.89270	87.21523	14.26916	0.0760094	0.23482209	2.6020167	20	—	—
136238 2003 WX_{141}	15.9	X	319.37250	265.91193	101.19502	4.46416	0.2140444	0.28209960	2.3025076	20	9 15.2	17.2
136239 2003 WG_{142}	16.6	X	298.78738	6.62736	20.77509	1.71286	0.2350901	0.28283003	2.2985416	20	8 22.3	18.1
136240 2003 WY_{143}	15.4	X	318.57932	328.67369	261.59574	11.51590	0.1448535	0.26324738	2.4111636	20	2 8.6	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136241 2003 WM_{170}	16.0	X	308.69216	315.54076	64.74018	10.11396	0.2168785	0.28078614	2.3096824	20	9 13.6	17.8
136242 2003 XZ	16.5	X	314.75229	355.05803	0.93504	6.72039	0.1565742	0.28302414	2.2974905	20	8 19.7	18.3
136243 2003 XY_{2}	16.9	X	226.24743	200.30495	203.15617	5.92677	0.1327953	0.27306070	2.3530433	20	6 14.1	20.3
136244 2003 XV_{3}	16.7	X	165.74498	243.47928	198.98528	5.48558	0.0742396	0.26739564	2.3861615	20	6 1.2	20.0
136245 2003 XE_{4}	16.9	X	128.44059	166.88271	164.53645	4.23107	0.1939884	0.30769679	2.1729717	20	—	—
136246 2003 XN_{5}	16.1	X	74.37647	21.52471	313.70433	6.21049	0.1424008	0.29995522	2.2102010	20	—	—
136247 2003 XU_{5}	16.9	X	298.95353	235.09185	156.42214	2.43373	0.1709458	0.28451266	2.2894701	20	9 9.4	18.5
136248 2003 XK_{9}	15.3	X	337.97901	145.22497	343.51307	11.89427	0.1284486	0.24214165	2.5493124	20	—	—
136249 2003 XP_{15}	16.6	X	147.40583	161.98519	173.17213	3.14486	0.1793428	0.30910173	2.1663822	20	—	—
136250 2003 XP_{16}	16.4	X	211.72068	222.74405	215.61938	7.01932	0.1252622	0.27458969	2.3443003	20	7 14.4	19.9
136251 2003 XD_{19}	16.7	X	318.84951	226.59591	114.69048	7.02291	0.2016154	0.28068896	2.3102155	20	7 26.3	18.3
136252 2003 XX_{34}	15.7	X	359.11616	322.48140	319.72583	8.49981	0.1411655	0.27767102	2.3269248	20	7 24.9	17.6
136253 2003 XA_{39}	15.6	X	167.56003	46.29734	308.17897	6.66110	0.1331900	0.25402247	2.4691907	20	2 11.9	19.2
136254 2003 YL_{7}	15.1	X	69.11113	330.52340	53.32278	15.13678	0.1673271	0.23833059	2.5764172	20	—	—
136255 2003 YE_{18}	16.6	X	359.22574	286.70870	111.25085	3.55973	0.2225776	0.29200083	2.2501596	20	—	—
136256 2003 YS_{31}	16.4	X	214.82183	43.39481	301.48628	3.53012	0.1281729	0.26182673	2.4198776	20	3 15.5	20.1
136257 2003 YR_{37}	17.1	X	302.71652	92.29137	187.40705	1.01165	0.1686403	0.26825395	2.3810689	20	3 25.7	19.9
136258 2003 YQ_{43}	16.2	X	182.39555	237.33681	152.77368	2.33319	0.1666264	0.26059421	2.4275017	20	4 13.3	19.9
136259 2003 YH_{45}	16.5	X	234.19859	15.27581	25.44456	7.12183	0.1563751	0.27384483	2.3485493	20	6 16.1	20.0
136260 2003 YV_{58}	16.0	X	199.44648	206.46078	260.87484	4.84299	0.1460874	0.27438649	2.3454575	20	8 7.6	19.6
136261 2003 YO_{60}	16.6	X	339.76336	239.85811	94.33348	4.02795	0.2179598	0.28331219	2.2959330	20	9 14.1	17.8
136262 2003 YV_{64}	16.1	X	112.69300	279.03778	178.41750	1.06147	0.1422935	0.25773353	2.4454311	20	4 26.6	19.4
136263 2003 YR_{68}	15.4	X	190.79349	18.30301	119.51267	13.15255	0.0244949	0.21570906	2.7535341	20	9 16.9	19.4
136264 2003 YC_{70}	15.1	X	319.30465	139.91638	290.77083	28.52014	0.0774413	0.22659365	2.6646339	20	12 6.9	18.8
136265 2003 YN_{71}	15.3	X	98.04214	325.44121	277.60140	11.30398	0.1254082	0.22275935	2.6951241	20	10 9.5	19.6
136266 2003 YV_{74}	15.3	X	124.07805	145.37137	75.11650	12.53829	0.0559394	0.22213879	2.7001410	20	10 15.9	19.4
136267 2003 YR_{80}	14.4	X	294.81388	225.55164	311.96646	8.92907	0.1755629	0.17676865	3.1443621	20	—	—
136268 2003 YB_{83}	15.9	X	149.75332	213.24989	81.80702	6.81764	0.1187168	0.23700011	2.5860506	20	—	—
136269 2003 YQ_{87}	15.3	X	139.51320	91.53565	310.49613	5.81654	0.1631469	0.25442790	2.4665669	20	3 14.9	19.0
136270 2003 YP_{89}	15.5	X	37.25976	246.80548	70.61419	3.68019	0.0624249	0.22110678	2.7085364	20	10 29.1	18.9
136271 2003 YT_{95}	16.1	X	294.19858	245.02932	100.41323	8.35917	0.1321763	0.27448171	2.3449150	20	6 23.3	18.5
136272 2003 YF_{107}	15.3	X	37.30500	330.29210	181.17713	1.85992	0.0422454	0.19175731	2.9782976	20	3 16.6	19.2
136273 Csermely	16.0	X	225.96383	4.49363	289.58544	11.49940	0.1939844	0.25701284	2.4500005	20	1 22.9	20.0
136274 2003 YO_{111}	15.7	X	226.55870	237.66715	298.01727	6.96331	0.0947472	0.23227066	2.6210370	20	12 7.3	19.2
136275 2003 YM_{113}	16.0	X	200.13779	65.20256	346.88909	7.36670	0.1155031	0.26443760	2.4039232	20	5 27.1	19.7
136276 2003 YZ_{123}	15.9	X	40.69428	359.03500	332.14106	9.02893	0.1664250	0.29377669	2.2410824	20	12 21.8	19.0
136277 2003 YL_{125}	16.4	X	14.18457	2.13564	2.70714	6.33455	0.1416336	0.29215634	2.2493611	20	12 29.2	19.0
136278 2003 YO_{125}	15.1	X	336.15655	25.09716	284.28804	23.12610	0.1799094	0.27658557	2.3330088	20	7 13.2	16.7
136279 2003 YU_{125}	16.4	X	295.42916	91.56577	322.14696	6.39605	0.0471992	0.28621235	2.2803971	20	10 17.4	19.1
136280 2003 YW_{125}	16.5	X	260.60574	355.50352	38.50086	7.41663	0.1297430	0.27398559	2.3477449	20	7 15.8	19.5
136281 2003 YY_{128}	15.5	X	355.08298	286.85981	88.75042	15.41819	0.1212059	0.22459093	2.6804512	20	11 24.0	18.7
136282 2003 YZ_{129}	16.2	X	191.67182	359.80935	41.82446	7.27011	0.1524469	0.26147517	2.4220461	20	5 5.5	19.9
136283 2003 YE_{130}	14.4	X	321.01471	127.19462	41.69228	10.75850	0.0838134	0.17576485	3.1563225	20	—	—
136284 2003 YY_{134}	15.6	X	178.04473	4.01158	13.50697	9.45961	0.2012703	0.25785579	2.4446581	20	3 25.8	19.5
136285 2003 YF_{140}	15.2	X	293.89922	100.13165	116.45994	11.98996	0.0632934	0.18573523	3.0423314	20	1 19.6	19.5
136286 2003 YG_{146}	15.5	X	294.36729	350.43085	82.62305	15.55062	0.0220684	0.22152125	2.7051569	20	11 8.2	19.2
136287 2003 YR_{151}	15.8	X	68.56665	290.15662	49.40781	12.38292	0.0965106	0.23159828	2.6261075	20	—	—
136288 2004 AZ_{1}	15.6	X	79.29173	174.61230	109.37560	15.00168	0.0500870	0.22206764	2.7007178	20	11 11.8	19.6
136289 2004 AY_{2}	14.7	X	32.25648	217.59478	260.20446	21.49578	0.0835841	0.24297181	2.5435022	20	1 13.1	17.9
136290 2004 AH_{6}	15.2	X	308.91579	46.66338	141.63108	11.01970	0.0488398	0.18229690	3.0804668	20	1 6.0	19.6
136291 2004 AV_{9}	15.4	X	293.79837	314.23486	248.78813	0.31034	0.1003278	0.18172919	3.0868788	20	—	—
136292 2004 AU_{10}	15.7	X	73.92164	271.20910	5.40280	1.93969	0.0389131	0.21915028	2.7246331	20	10 18.5	19.2
136293 2004 AG_{14}	14.8	X	247.26196	109.88147	118.07751	27.07899	0.1622285	0.17752074	3.1354748	20	—	—
136294 2004 AK_{26}	16.3	X	0.05372	205.83982	142.67493	6.34538	0.1484397	0.28718432	2.2752488	20	11 15.0	18.6
136295 2004 BF_{2}	16.3	X	217.61605	260.92799	118.53099	4.88147	0.2184666	0.26456647	2.4031424	20	4 30.9	20.4
136296 2004 BR_{2}	16.7	X	250.97725	251.27848	116.38730	3.15315	0.2265724	0.26780254	2.3837439	20	5 14.7	20.2
136297 2004 BN_{9}	14.9	X	198.62094	156.96939	129.54303	10.20502	0.0457946	0.17889319	3.1194176	20	—	—
136298 2004 BP_{9}	16.0	X	100.29287	266.27420	118.98638	7.01740	0.1754795	0.24334734	2.5408848	20	1 12.3	18.9
136299 2004 BU_{13}	15.3	X	54.26102	227.94040	119.28774	15.05750	0.1376050	0.22863094	2.6487809	20	—	—
136300 2004 BU_{14}	15.6	X	256.41551	287.20470	124.14557	5.39215	0.0644418	0.21241366	2.7819400	20	8 7.6	19.4
136301 2004 BX_{14}	16.1	X	268.82514	7.28583	144.13568	3.63953	0.0909724	0.22938946	2.6429386	20	—	—
136302 2004 BL_{19}	15.6	X	105.76589	8.94308	11.16449	6.02578	0.2154849	0.24524946	2.5277300	20	1 20.7	18.9
136303 2004 BC_{23}	16.8	X	191.28545	235.32640	165.20857	0.89284	0.1993962	0.26220225	2.4175666	20	5 3.9	20.7
136304 2004 BB_{24}	15.5	X	356.60018	68.57300	119.37946	9.73972	0.0296902	0.19142821	2.9817102	20	3 11.0	19.6
136305 2004 BA_{34}	15.6	X	251.40620	297.23648	117.52865	5.52794	0.0615971	0.21196267	2.7858846	20	8 6.1	19.4
136306 2004 BF_{35}	15.6	X	37.26837	236.13548	97.02119	4.16924	0.0841137	0.22242835	2.6977972	20	11 21.6	19.1
136307 2004 BX_{43}	16.4	X	195.52378	314.72799	124.14848	3.24599	0.1972952	0.26638514	2.3921921	20	6 25.6	20.3
136308 2004 BK_{44}	14.2	X	210.03168	314.26605	337.82279	16.49489	0.1054647	0.17752742	3.1353962	20	1 22.2	19.3
136309 2004 BO_{44}	14.9	X	13.67706	51.03228	333.47700	14.35265	0.1254602	0.22486030	2.6783101	20	—	—
136310 2004 BB_{47}	15.2	X	26.75988	163.07231	121.36822	10.27079	0.1135363	0.21359609	2.7716636	20	9 8.1	18.7
136311 2004 BP_{47}	16.1	X	251.88418	44.95347	122.61249	1.24310	0.0764676	0.23037063	2.6354289	20	—	—
136312 2004 BQ_{49}	16.1	X	296.81800	173.90503	287.78521	2.26094	0.0766627	0.22766382	2.6562771	20	12 11.5	19.2
136313 2004 BO_{51}	15.0	X	256.33793	91.80080	139.87624	10.90067	0.0927627	0.17795351	3.1303893	20	—	—
136314 2004 BS_{51}	16.3	X	329.33431	287.69334	137.50845	2.83141	0.1949071	0.22822461	2.6519239	20	12 20.7	18.6
136315 2004 BF_{56}	16.2	X	205.94210	268.99538	151.32683	5.76064	0.1410235	0.26520929	2.3992577	20	6 14.4	19.9
136316 2004 BU_{56}	15.3	X	250.26408	152.32986	323.14733	4.11036	0.0975604	0.21915427	2.7246000	20	10 16.7	19.1
136317 2004 BO_{57}	15.9	X	221.28218	132.07438	229.19266	5.56775	0.2791508	0.26237721	2.4164917	20	4 5.6	20.2
136318 2004 BK_{60}	16.0	X	77.36959	189.26914	117.32630	4.20059	0.1194884	0.22599943	2.6693027	20	12 10.8	19.9
136319 2004 BA_{61}	16.4	X	73.39483	15.73034	311.30009	1.19707	0.0812865	0.22821233	2.6520191	20	12 27.6	20.0
136320 2004 BX_{61}	16.1	X	69.83041	198.53366	97.27727	4.71364	0.0776806	0.22269140	2.6956723	20	11 14.4	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136321 2004 BM_{74}	15.7	X	42.01342	108.29540	301.29646	4.37522	0.0879276	0.23515845	2.5995349	20	—	—
136322 2004 BP_{80}	15.9	X	10.53578	33.56448	317.17644	6.89541	0.0495241	0.22040314	2.7142980	20	10 29.6	19.5
136323 2004 BE_{81}	15.3	X	106.04707	273.56419	98.07254	14.52259	0.2019303	0.24372044	2.5382910	20	1 6.5	18.4
136324 2004 BY_{86}	16.2	X	264.60315	64.41895	349.41260	2.47523	0.1425831	0.27308546	2.3529010	20	8 16.4	19.0
136325 2004 BC_{88}	16.2	X	353.39574	305.66644	143.05460	14.22499	0.1390210	0.23533854	2.5982086	20	—	—
136326 2004 BS_{89}	15.8	X	341.37836	201.68339	234.34591	4.79274	0.1456935	0.22930880	2.6435584	20	—	—
136327 2004 BG_{94}	14.8	X	201.27113	23.35712	261.32081	8.74371	0.0520397	0.17735728	3.1374010	20	—	—
136328 2004 BX_{101}	15.5	X	247.01835	133.02427	311.80214	12.96283	0.0837116	0.21419900	2.7664602	20	9 1.3	19.4
136329 2004 BC_{105}	14.8	X	209.12171	121.50060	131.79699	26.02930	0.1032960	0.17460501	3.1702846	20	—	—
136330 2004 BM_{107}	16.9	X	176.09757	351.92929	61.34947	6.71555	0.2013866	0.26087458	2.4257621	20	5 7.4	20.9
136331 2004 BG_{108}	14.4	X	288.50470	177.11861	61.35215	5.77319	0.1739004	0.18202005	3.0835895	20	1 27.0	19.0
136332 2004 BS_{111}	15.0	X	320.72448	88.09828	4.46618	21.91947	0.0269030	0.22497105	2.6774310	20	—	—
136333 2004 BA_{149}	15.2	X	215.00348	315.07270	310.93221	15.26769	0.1794299	0.17754258	3.1352177	20	—	—
136334 2004 BX_{149}	15.2	X	119.00696	340.74696	297.68880	10.82603	0.1700677	0.22894107	2.6463883	20	12 20.1	19.6
136335 2004 CZ_{4}	15.3	X	271.41895	116.63807	86.91133	2.64694	0.1140954	0.17468800	3.1692804	20	—	—
136336 2004 CK_{12}	15.7	X	67.19310	186.73380	322.75450	3.64350	0.1017535	0.19276393	2.9679201	20	4 30.6	19.7
136337 2004 CY_{12}	16.1	X	232.39969	6.74964	129.54954	1.17929	0.0280383	0.21924390	2.7238574	20	11 2.2	19.7
136338 2004 CT_{14}	15.1	X	185.06202	171.26390	138.05903	12.77292	0.1201760	0.17806412	3.1290928	20	1 14.5	20.1
136339 2004 CW_{14}	14.8	X	189.29517	187.09230	139.54735	16.87671	0.1010810	0.18258946	3.0771754	20	2 6.6	19.6
136340 2004 CV_{18}	15.2	X	64.98866	296.23876	100.55133	13.49540	0.1974343	0.23828376	2.5767548	20	—	—
136341 2004 CO_{23}	15.7	X	49.15044	339.05616	326.54027	12.49233	0.1191614	0.21892470	2.7265045	20	10 30.5	19.7
136342 2004 CR_{26}	14.7	X	2.37637	11.31048	148.55747	22.75227	0.0758226	0.18292916	3.0733646	20	2 7.6	18.7
136343 2004 CO_{31}	15.8	X	256.08800	117.30865	202.83914	1.31462	0.0804702	0.19621057	2.9330612	20	4 7.2	20.1
136344 2004 CE_{33}	16.5	X	327.33525	199.31013	116.70073	4.85321	0.1466966	0.26702539	2.3883667	20	7 7.5	18.6
136345 2004 CO_{35}	15.0	X	18.88977	244.31930	141.06013	14.25000	0.1762804	0.22619274	2.6677816	20	—	—
136346 2004 CT_{44}	15.9	X	334.45686	215.68569	137.88819	5.90637	0.0688013	0.21663599	2.7456740	20	9 14.7	19.2
136347 2004 CO_{52}	15.0	X	137.07834	247.83091	143.39871	9.70953	0.0758921	0.18514389	3.0488061	20	2 28.6	19.5
136348 2004 CQ_{70}	16.0	X	85.65711	3.20048	345.33435	4.21926	0.0964221	0.23177657	2.6247606	20	—	—
136349 2004 CA_{71}	15.2	X	263.56328	146.70994	135.96121	12.61330	0.0688343	0.18754672	3.0227094	20	3 5.1	19.6
136350 2004 CS_{71}	14.8	X	175.23639	188.13135	110.38822	10.26386	0.0621360	0.17378043	3.1803052	20	—	—
136351 2004 CZ_{71}	16.2	X	62.27290	214.98014	54.37520	7.64055	0.0886503	0.27007773	2.3703375	20	10 13.2	19.2
136352 2004 CA_{77}	15.3	X	298.93204	357.67837	165.00600	1.45439	0.1317044	0.17269369	3.1936335	20	—	—
136353 2004 CC_{78}	16.0	X	96.99112	145.51064	53.08532	3.33428	0.1327774	0.26414431	2.4057022	20	8 24.6	19.3
136354 2004 CK_{78}	15.1	X	31.25102	225.66066	143.95744	12.38675	0.1659825	0.22587490	2.6702836	20	—	—
136355 2004 CF_{81}	15.6	X	278.78162	221.03453	161.51071	4.75328	0.0832818	0.20974996	2.8054431	20	7 26.1	19.3
136356 2004 CG_{98}	16.4	X	218.61772	6.64482	40.55982	5.83732	0.2306102	0.26762445	2.3848013	20	6 2.8	20.3
136357 2004 CX_{121}	16.3	X	47.51506	250.44948	121.39442	4.69204	0.1312841	0.22884101	2.6471597	20	—	—
136358 2004 DB_{3}	15.8	X	323.15889	39.04664	11.62670	3.30428	0.0871761	0.22009485	2.7168320	20	11 11.5	18.9
136359 2004 DS_{4}	15.2	X	47.83696	341.68668	344.84158	9.86347	0.1257373	0.21953823	2.7214223	20	11 28.9	19.1
136360 2004 DO_{19}	16.1	X	233.85510	27.05123	359.62042	4.22306	0.2534251	0.26505838	2.4001683	20	5 18.8	20.1
136361 2004 DP_{23}	14.9	X	3.31884	357.48801	165.08532	18.09978	0.1449913	0.18013607	3.1050524	20	2 7.8	18.7
136362 2004 DF_{27}	15.8	X	327.13637	335.71846	15.61213	4.44264	0.0792379	0.21030985	2.8004617	20	8 29.5	19.1
136363 2004 DS_{30}	15.7	X	252.53862	311.17176	123.78317	9.14560	0.1120107	0.21210205	2.7846641	20	8 28.3	19.6
136364 2004 DV_{72}	15.5	X	251.88351	183.61601	139.81418	12.69800	0.0537044	0.19518471	2.9433293	20	4 14.5	19.9
136365 2004 EZ_{2}	15.1	X	335.51193	342.25558	77.14224	16.22102	0.2697054	0.22544898	2.6736458	20	—	—
136366 2004 EK_{5}	14.9	X	195.31226	258.30440	158.69083	11.89460	0.1218184	0.19759144	2.9193801	20	6 1.3	19.7
136367 Gierlinger	14.6	X	116.74365	129.42193	124.55796	9.05297	0.0793409	0.15481127	3.4350601	20	11 5.8	19.9
136368 2004 EC_{15}	14.6	X	274.89137	354.30133	30.28852	15.80147	0.1388139	0.20493986	2.8491704	20	7 18.9	18.8
136369 2004 EG_{22}	16.1	X	246.77043	84.33718	132.35124	5.38874	0.1295663	0.28900912	2.2656614	20	—	—
136370 2004 ED_{26}	16.4	X	77.70110	147.79694	106.13509	7.57507	0.0954881	0.27110235	2.3643614	20	10 14.3	19.7
136371 2004 ER_{30}	14.4	X	188.89463	349.66745	351.13634	17.55080	0.1452246	0.18033107	3.1028135	20	2 26.8	19.5
136372 2004 EY_{34}	15.0	X	342.18757	352.93456	154.43293	5.62370	0.1070202	0.17379511	3.1801261	20	—	—
136373 2004 EN_{55}	14.5	X	342.83933	186.07082	334.87111	21.58446	0.0265036	0.17586786	3.1550898	20	1 25.3	19.1
136374 2004 EA_{59}	14.3	X	111.18809	38.76258	325.94710	18.45980	0.0719881	0.17074396	3.2178996	20	1 2.5	19.1
136375 2004 EV_{64}	14.8	X	198.17845	226.78938	100.29164	13.05884	0.0718239	0.18165422	3.0877282	20	2 19.1	19.6
136376 2004 EF_{83}	14.6	X	133.59182	328.07118	356.10093	12.37120	0.1754414	0.23296203	2.6158487	20	—	—
136377 2004 FV_{22}	15.7	X	197.55937	323.91777	166.92339	4.57563	0.0142101	0.21135975	2.7911801	20	9 12.0	19.5
136378 2004 FF_{24}	16.4	X	17.75036	5.15157	320.22209	1.96627	0.2088337	0.26814119	2.3817364	20	11 12.6	19.0
136379 2004 FY_{33}	14.3	X	193.96259	305.34055	333.09001	14.36335	0.0103493	0.17155247	3.2077812	20	—	—
136380 2004 FR_{36}	14.6	X	296.81547	54.26670	169.22583	6.34577	0.0565746	0.17610653	3.1522386	20	2 1.6	19.0
136381 2004 FU_{44}	14.7	X	323.02993	13.36743	152.38329	6.83823	0.1142009	0.17215415	3.2003027	20	—	—
136382 2004 FQ_{49}	15.6	X	312.36535	80.30812	346.43220	8.35072	0.1385314	0.21796640	2.7344901	20	11 10.6	18.7
136383 2004 FT_{65}	15.2	X	335.18379	64.45421	120.77609	4.15191	0.1039428	0.17609040	3.1524310	20	1 30.5	19.4
136384 2004 FS_{104}	14.8	X	206.57047	192.93805	150.44082	11.53274	0.1357144	0.18133806	3.0913160	20	3 14.9	19.7
136385 2004 FR_{148}	14.3	X	69.21707	248.36262	193.42960	20.87809	0.0766100	0.17281278	3.1921660	20	2 3.9	18.9
136386 2004 FD_{152}	16.6	X	159.21823	342.69350	326.75968	4.86013	0.1693713	0.29370036	2.2414707	20	—	—
136387 2004 GJ_{34}	14.9	X	19.42410	193.01869	318.19760	16.46862	0.1454052	0.18138037	3.0908353	20	2 20.1	18.6
136388 2004 GA_{37}	14.8	X	357.70967	194.68416	223.71104	13.45520	0.1956744	0.22205198	2.7008447	20	—	—
136389 2004 HJ_{40}	15.4	X	359.61233	199.18783	206.23333	12.19512	0.2530242	0.21950845	2.7216684	20	—	—
136390 2004 HA_{41}	14.8	X	53.34349	259.00066	200.40369	8.61145	0.0385837	0.17376450	3.1804996	20	2 2.2	19.2
136391 2004 JA_{25}	16.1	X	334.21654	293.95671	274.83911	3.26278	0.0200032	0.23727599	2.5840457	20	2 27.2	19.5
136392 2004 PL_{93}	16.2	X	207.41546	31.89243	255.73394	2.95806	0.1016032	0.21919323	2.7242771	20	1 4.6	20.3
136393 2004 SE_{30}	16.5	X	180.96225	312.07534	331.54888	1.71768	0.2017816	0.27217469	2.3581471	20	—	—
136394 2004 TB_{106}	16.4	X	199.35902	245.76305	153.74965	3.09339	0.0681322	0.22862043	2.6488621	20	5 14.6	20.2
136395 2004 TO_{212}	16.7	X	158.01453	152.88455	182.39694	2.09225	0.2327651	0.27393017	2.3480615	20	1 16.3	20.3
136396 2004 XZ_{113}	16.3	X	276.78862	175.53408	66.84504	5.35438	0.0413309	0.26941924	2.3741983	20	1 21.7	19.5
136397 2004 XB_{134}	15.6	X	155.59900	263.87048	289.91422	9.64375	0.2304002	0.23497807	2.6008651	20	10 6.5	20.4
136398 2004 XC_{158}	15.8	X	139.80758	158.10185	275.61282	0.78725	0.0498051	0.21223971	2.7834598	20	4 18.2	19.8
136399 2004 XZ_{176}	16.6	X	322.71638	141.17694	336.79016	19.16607	0.0667467	0.37578050	1.9018659	20	—	—
136400 2004 XW_{180}	14.5	X	246.29791	262.99845	325.57909	21.20177	0.2550463	0.17815149	3.1280696	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136401 2004 YV_{19}	15.3	X	226.85496	64.01834	118.54915	11.57436	0.0716404	0.17848808	3.1241358	20	12 8.9	19.9
136402 2004 YD_{20}	17.0	X	79.27159	58.58603	115.79180	3.01645	0.1434630	0.27822497	2.3238351	20	6 29.8	19.9
136403 2004 YS_{20}	16.4	X	285.15941	312.87309	282.57727	3.31210	0.1935648	0.25974361	2.4327985	20	1 5.3	19.9
136404 2005 AU_{11}	15.8	X	318.88670	278.67410	322.52049	12.49211	0.1688349	0.26819323	2.3814283	20	2 22.8	18.5
136405 2005 AV_{16}	15.5	X	267.74671	23.58085	113.01519	6.34009	0.1495062	0.17961477	3.1110574	20	11 23.1	19.6
136406 2005 AR_{32}	15.9	X	1.72017	286.76896	311.37810	6.20552	0.2507605	0.27207836	2.3587037	20	5 10.2	17.3
136407 2005 AR_{39}	16.5	X	6.52338	158.97028	83.79111	3.52835	0.1857049	0.27364112	2.3497147	20	6 4.9	18.0
136408 2005 AT_{53}	16.5	X	36.61918	250.82807	287.68670	4.24407	0.0992591	0.26993296	2.3711850	20	4 16.8	19.0
136409 2005 AE_{54}	16.3	X	305.14417	104.57869	99.67581	7.61728	0.0858102	0.25718551	2.4489037	20	1 2.5	19.2
136410 2005 AX_{56}	15.1	X	287.88254	92.97856	48.20080	11.07599	0.0962229	0.18362555	3.0655893	20	—	—
136411 2005 AL_{79}	16.3	X	43.41114	169.43181	109.19846	7.38268	0.1649583	0.28879133	2.2668004	20	10 17.3	19.1
136412 2005 BG_{25}	16.0	X	271.04375	27.45927	73.07795	5.86021	0.0709028	0.23880467	2.5730062	20	11 6.2	19.2
136413 2005 CH_{11}	16.5	X	118.86309	59.50414	124.41934	5.05808	0.1075521	0.28438182	2.2901724	20	8 28.9	19.7
136414 2005 CW_{35}	15.9	X	307.13151	246.30981	74.84290	6.92290	0.0442267	0.22012233	2.7166060	20	6 19.7	19.5
136415 2005 CE_{43}	16.2	X	249.85257	317.23649	301.56723	5.74872	0.2068560	0.25553536	2.4594352	20	1 1.7	20.4
136416 2005 CY_{43}	15.3	X	31.94526	309.11767	334.67644	13.45681	0.2886890	0.21880902	2.7274653	20	10 4.9	18.8
136417 2005 CO_{45}	16.9	X	305.21147	177.41480	113.85680	4.63858	0.1407336	0.27131284	2.3631384	20	4 21.9	19.5
136418 2005 CJ_{46}	16.8	X	340.70159	311.30218	327.99208	4.48140	0.1286270	0.27537334	2.3398506	20	6 6.9	19.0
136419 2005 CA_{48}	16.1	X	237.27202	326.87767	311.70672	4.80745	0.1708786	0.25667103	2.4521751	20	1 16.0	20.0
136420 2005 CL_{48}	16.7	X	106.34744	262.92144	324.62422	7.38686	0.0849681	0.29047105	2.2580531	20	10 7.1	19.9
136421 2005 CK_{49}	16.5	X	344.83762	276.38227	310.32004	1.45271	0.1545744	0.26667775	2.3904419	20	3 20.7	18.9
136422 2005 CS_{49}	16.9	X	216.48244	230.86562	317.00096	5.23958	0.0847671	0.30274930	2.1965813	20	12 31.5	19.3
136423 2005 CH_{50}	16.9	X	59.23911	101.26135	132.19052	4.25524	0.0806218	0.28201312	2.3029783	20	8 16.9	19.6
136424 2005 CW_{51}	16.1	X	233.42914	115.00502	164.83105	2.34955	0.1053861	0.25642451	2.4537465	20	1 15.6	19.7
136425 2005 CQ_{58}	16.6	X	45.27111	90.92958	88.49333	1.63051	0.0803973	0.27043093	2.3682732	20	5 4.3	19.0
136426 2005 CJ_{69}	16.3	X	356.45279	267.22189	311.05894	5.98959	0.0730869	0.26879639	2.3778645	20	4 3.4	18.9
136427 2005 ET_{3}	17.0	X	285.86120	152.39757	145.39889	1.62086	0.1870711	0.26963650	2.3729227	20	3 25.9	20.0
136428 2005 EK_{12}	16.5	X	12.73752	191.18100	66.77415	3.57354	0.1928490	0.27460877	2.3441916	20	7 19.8	18.3
136429 2005 EU_{13}	15.8	X	225.49276	139.07410	156.19930	14.75197	0.1458036	0.25492761	2.4633425	20	1 24.9	19.8
136430 2005 EV_{13}	17.1	X	111.98285	50.15556	136.83318	6.37383	0.0440306	0.28205070	2.3027737	20	8 17.6	20.0
136431 2005 ER_{16}	17.0	X	318.48216	137.15801	167.25039	4.73028	0.2307640	0.27132845	2.3630477	20	5 18.4	19.2
136432 Allenlunsford	16.2	X	242.05322	182.86053	118.43254	3.83231	0.1935672	0.25941851	2.4348305	20	2 15.6	20.1
136433 2005 ER_{28}	16.2	X	220.60395	169.24645	78.06207	4.76140	0.0688669	0.24511356	2.5286642	20	—	—
136434 2005 EA_{32}	16.0	X	276.98311	267.20382	18.85366	4.29870	0.1725723	0.26259360	2.4151640	20	3 3.8	19.3
136435 2005 EH_{32}	15.8	X	216.60579	286.35229	16.38482	8.98902	0.0919171	0.25524980	2.4612691	20	1 30.8	19.6
136436 2005 EA_{41}	15.4	X	227.27869	82.41404	109.78425	17.13432	0.0874333	0.23886116	2.5726005	20	—	—
136437 2005 EZ_{42}	16.0	X	187.02451	267.49957	4.32737	9.27411	0.1097586	0.24431699	2.5341575	20	—	—
136438 2005 EU_{45}	14.7	X	164.64868	134.71634	159.64439	12.88148	0.1264203	0.18130344	3.0917095	20	—	—
136439 2005 EV_{53}	16.4	X	340.54977	335.00436	355.61080	7.22972	0.1537978	0.28333964	2.2957847	20	9 4.8	18.1
136440 2005 EK_{56}	16.2	X	335.85439	23.24350	260.24462	1.29747	0.1983897	0.27167647	2.3610292	20	5 26.9	17.9
136441 2005 EP_{58}	17.0	X	14.59590	19.22364	226.35320	0.75220	0.1476870	0.27161904	2.3613620	20	6 26.2	19.0
136442 2005 EE_{62}	16.9	X	4.55190	0.17236	59.18989	0.58255	0.0386913	0.30740765	2.1743341	20	—	—
136443 2005 EN_{67}	15.3	X	78.56643	76.91354	164.41632	10.14405	0.1632677	0.21632409	2.7483125	20	9 26.6	19.3
136444 2005 EX_{84}	14.6	X	242.27115	141.37743	84.60356	12.06273	0.1919374	0.17794204	3.1305238	20	—	—
136445 2005 EP_{108}	15.5	X	50.89991	297.04609	305.49078	8.52192	0.1563436	0.21417134	2.7666984	20	8 19.8	19.0
136446 2005 EO_{115}	15.4	X	119.37385	66.01325	143.16696	5.38715	0.1980330	0.21848778	2.7301381	20	9 30.1	19.9
136447 2005 EN_{124}	16.9	X	207.43477	339.02431	148.79036	4.00263	0.1045588	0.28819520	2.2699252	20	9 22.0	19.8
136448 2005 ES_{125}	15.1	X	208.77417	331.63580	276.17981	9.10274	0.1765637	0.17569491	3.1571600	20	—	—
136449 2005 EA_{140}	15.0	X	7.45861	220.88975	53.74748	14.73138	0.1043029	0.20979311	2.8050584	20	7 21.9	18.6
136450 2005 EX_{141}	16.1	X	231.68872	40.27091	267.53042	4.29573	0.1370854	0.25971934	2.4329500	20	2 14.4	19.8
136451 2005 EU_{154}	16.7	X	226.05824	293.83248	39.25140	2.90442	0.1254982	0.25927883	2.4357049	20	3 14.9	20.3
136452 2005 EQ_{166}	16.7	X	275.80642	303.70283	306.80283	1.58283	0.0725853	0.25591118	2.4570267	20	1 28.2	20.0
136453 2005 EO_{173}	16.1	X	350.08667	137.39640	194.77182	6.24767	0.2128342	0.28484458	2.2876913	20	10 5.7	17.6
136454 2005 EF_{182}	14.3	X	212.19641	116.73050	101.39742	20.35784	0.2185472	0.17286988	3.1914631	20	12 17.6	19.4
136455 2005 ET_{184}	14.5	X	160.33409	283.82830	19.88269	26.93589	0.0546935	0.17610231	3.1522889	20	—	—
136456 2005 EO_{188}	16.0	X	114.86587	132.98169	205.76708	4.31995	0.0673429	0.23993439	2.5649233	20	—	—
136457 2005 EK_{202}	14.4	X	275.77629	181.63736	95.11009	25.72435	0.2255069	0.19203981	2.9753761	20	2 26.8	19.4
136458 2005 EM_{206}	16.0	X	255.90244	262.95830	300.80284	2.55923	0.1400629	0.24278018	2.5448405	20	—	—
136459 2005 EA_{219}	15.3	X	358.24695	245.23363	51.92165	12.04747	0.1410816	0.21042348	2.7994535	20	8 11.6	18.6
136460 2005 EJ_{224}	15.5	X	49.55310	160.78968	142.63812	12.35841	0.1795224	0.22424099	2.6832392	20	11 16.7	19.5
136461 2005 EO_{224}	16.1	X	236.70965	239.68312	80.75538	3.27961	0.2250170	0.25900350	2.4374308	20	3 4.6	20.1
136462 2005 EO_{227}	16.4	X	34.28241	80.26414	131.42182	9.04977	0.0428650	0.27209232	2.3586230	20	5 31.9	19.2
136463 2005 EK_{252}	16.3	X	196.36550	30.02020	334.92179	0.52176	0.2008507	0.26022073	2.4298238	20	3 24.5	20.2
136464 2005 EV_{253}	16.3	X	278.17740	302.71031	339.74900	6.64891	0.1019532	0.26437503	2.4043024	20	3 7.3	19.5
136465 2005 EA_{266}	16.2	X	87.57722	217.82817	339.32994	6.93803	0.0939948	0.27656452	2.3331272	20	8 6.9	19.2
136466 2005 EO_{271}	16.2	X	226.29348	155.55839	184.06345	6.02431	0.1758684	0.26231738	2.4168591	20	3 19.4	20.1
136467 2005 EO_{276}	15.4	X	106.23012	226.11632	89.36460	13.59221	0.1781107	0.23516468	2.5994890	20	—	—
136468 2005 EF_{283}	15.8	X	228.29940	163.17511	147.62470	6.66126	0.0994843	0.25735552	2.4478251	20	2 18.4	19.4
136469 2005 FM_{2}	15.3	X	20.01610	153.77074	101.72680	5.12584	0.0555683	0.20911979	2.8110763	20	7 8.9	18.9
136470 2005 FY_{6}	15.3	X	139.15692	97.46187	153.71236	13.32136	0.1605956	0.22818484	2.6522321	20	12 6.7	19.9
136471 2005 FJ_{7}	16.1	X	286.67058	46.30060	190.06658	6.23763	0.1167274	0.25727410	2.4483416	20	1 15.9	19.6
136472 Makemake	−0.2	X	165.51604	294.83234	79.61900	28.98353	0.1612630	0.00321879	45.4297667	20	4 7.9	17.1
136473 Bakosgáspár	15.9	X	179.23155	196.69248	140.12231	9.14749	0.1295309	0.25420436	2.4680127	20	2 1.9	19.5
136474 2005 GX_{27}	15.0	X	29.63005	321.90711	0.11264	9.84032	0.2373851	0.21737931	2.7394113	20	11 15.0	18.7
136475 2005 GE_{44}	16.5	X	211.46942	273.37149	332.28326	3.89670	0.1975460	0.23943612	2.5684805	20	—	—
136476 2005 GT_{55}	15.1	X	312.44507	311.34455	264.11966	10.70502	0.0981269	0.18907861	3.0063609	20	2 1.1	19.3
136477 2005 GB_{59}	14.5	X	184.38435	136.93083	167.88898	16.65820	0.2259077	0.17540480	3.1606403	20	1 11.7	20.2
136478 2005 GD_{63}	16.3	X	248.05749	105.28888	203.78638	1.78969	0.1928157	0.26129316	2.4231707	20	2 29.1	20.2
136479 2005 GH_{68}	16.0	X	194.22457	348.08683	26.16638	4.64919	0.1953764	0.26030757	2.4292834	20	4 3.8	19.9
136480 2005 GL_{69}	15.3	X	216.36645	325.63634	277.00353	4.15572	0.1389808	0.17569922	3.1571085	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136481 2005 GV_{75}	16.4	X	348.10278	347.27881	18.05811	5.58543	0.1454290	0.28673951	2.2776012	20	11 13.9	18.5
136482 2005 GV_{77}	14.5	X	226.77954	191.71941	54.51772	16.77333	0.1288896	0.17792825	3.1306855	20	—	—
136483 2005 GB_{79}	14.8	X	222.73017	186.68349	104.16387	19.40552	0.1522266	0.18059963	3.0997367	20	1 27.5	19.9
136484 2005 GQ_{81}	15.3	X	246.51904	69.01456	160.69106	23.97585	0.2475851	0.17481418	3.1677551	20	—	—
136485 2005 GU_{82}	16.6	X	247.58370	157.05146	140.10478	1.90002	0.1813186	0.25921712	2.4360915	20	2 15.6	20.4
136486 2005 GY_{95}	14.5	X	199.30169	215.71162	79.92371	28.45943	0.1236844	0.17853341	3.1236070	20	1 11.1	19.7
136487 2005 GZ_{100}	16.0	X	75.99176	132.55382	176.55190	3.43144	0.2476502	0.22431635	2.6826381	20	12 23.2	20.4
136488 2005 GS_{119}	14.7	X	241.94604	130.32203	153.48589	27.66888	0.1411298	0.18396163	3.0618545	20	2 4.1	19.7
136489 2005 GG_{133}	16.1	X	66.21785	156.36382	163.03983	4.23423	0.2099847	0.22365893	2.6878925	20	12 23.3	20.3
136490 2005 GD_{134}	16.9	X	188.81162	284.08314	166.83175	3.84033	0.0392091	0.27434900	2.3456712	20	7 11.3	19.9
136491 2005 GL_{140}	14.9	X	195.93621	173.92004	113.08344	6.85926	0.1489922	0.17502278	3.1652377	20	—	—
136492 2005 GS_{140}	15.8	X	212.07888	64.03358	160.06966	13.08096	0.1187369	0.23532288	2.5983239	20	—	—
136493 2005 GW_{141}	14.5	X	216.31328	208.66353	69.32563	23.16145	0.1026257	0.17788243	3.1312231	20	1 7.2	19.6
136494 2005 GE_{150}	15.0	X	128.41757	156.92436	195.22074	13.97224	0.2750291	0.17299323	3.1899458	20	1 23.2	20.4
136495 2005 GA_{161}	15.4	X	64.84670	313.61264	47.29779	14.63960	0.1299482	0.23540828	2.5976954	20	—	—
136496 2005 GZ_{180}	15.7	X	57.36806	211.69018	85.54227	3.33799	0.0540914	0.22230058	2.6988308	20	10 28.5	19.2
136497 2005 HG_{3}	15.2	X	225.52640	172.41209	111.95170	10.11559	0.1367061	0.17980006	3.1089196	20	1 22.6	20.1
136498 2005 JO_{20}	14.2	X	143.85553	225.90170	91.95144	18.50650	0.1413989	0.17016865	3.2251482	20	—	—
136499 2005 JX_{20}	15.3	X	259.13130	83.39947	145.60974	12.98120	0.0912883	0.17756061	3.1350054	20	—	—
136500 2005 JY_{44}	15.0	X	163.65657	154.39303	185.35629	12.76360	0.2358878	0.17576295	3.1563452	20	2 3.2	20.5
136501 2005 JO_{68}	15.1	X	234.74723	220.59368	109.25585	11.01908	0.0818695	0.19046193	2.9917865	20	4 1.2	19.8
136502 2005 JG_{132}	14.7	X	204.14450	254.25153	13.14402	13.93045	0.1809766	0.17240940	3.1971431	20	—	—
136503 2005 JO_{146}	15.6	X	358.76594	150.43747	140.29363	11.75385	0.1391994	0.20447255	2.8535099	20	7 27.0	18.8
136504 2005 JX_{153}	16.2	X	119.57468	242.32930	190.67177	9.92566	0.1133838	0.25568903	2.4584497	20	3 28.9	19.5
136505 2005 JX_{160}	16.5	X	42.54164	260.59027	154.34854	6.05586	0.1274067	0.23765388	2.5813057	20	—	—
136506 2005 KF_{1}	15.9	X	214.57006	175.90315	158.40214	6.84144	0.1478073	0.18552300	3.0446511	20	3 9.7	20.9
136507 2005 KV_{5}	15.8	X	89.51670	164.62117	332.95520	5.03281	0.0671363	0.26181756	2.4199341	20	5 7.5	18.9
136508 2005 KO_{8}	15.2	X	90.64702	208.23700	237.41173	9.46651	0.0061770	0.18618465	3.0374336	20	2 24.9	19.6
136509 2005 KC_{12}	15.1	X	212.62674	204.43932	130.06241	11.46320	0.0831648	0.18668957	3.0319544	20	3 12.6	19.8
136510 2005 LH	15.0	X	212.23126	214.63053	119.59625	12.28985	0.1111185	0.18606112	3.0387779	20	3 11.9	19.9
136511 2005 MQ_{45}	16.4	X	257.14461	326.87359	134.62095	7.54731	0.0694912	0.27436104	2.3456026	20	10 28.4	19.2
136512 2005 NA_{50}	15.2	X	187.89786	180.11456	163.66505	4.53579	0.1735405	0.17939110	3.1136428	20	2 26.5	20.4
136513 2005 NL_{93}	14.5	X	284.24550	323.10769	277.01168	12.55473	0.1735116	0.18229754	3.0804595	20	1 21.1	19.3
136514 2005 QT_{36}	14.9	X	251.65272	28.25424	282.53232	3.54575	0.1262683	0.17424194	3.1746870	20	3 16.9	19.8
136515 2005 QF_{37}	16.1	X	5.83455	86.37670	209.24810	3.25533	0.2216435	0.26149965	2.4218950	20	9 5.4	18.1
136516 2005 QR_{49}	15.5	X	77.67666	271.07610	152.94985	14.74393	0.1111416	0.22639192	2.6662167	20	1 22.9	18.8
136517 2005 SY_{20}	16.7	X	157.85730	319.65666	82.89530	3.25143	0.1521189	0.30115660	2.2043191	20	4 3.6	19.8
136518 Opitz	16.4	X	110.23621	95.26928	199.49356	9.05737	0.2684122	0.21265168	2.7798637	20	12 30.9	21.5
136519 2005 SZ_{242}	15.8	X	24.60073	211.36660	207.40609	5.44366	0.0320370	0.21217574	2.7840193	20	—	—
136520 2005 UR_{314}	16.8	X	55.27635	203.59910	161.10995	6.63483	0.1100395	0.27582044	2.3373213	20	—	—
136521 2006 DE_{3}	16.6	X	17.13086	308.46071	160.12297	12.11616	0.0757239	0.27152343	2.3619163	20	—	—
136522 2006 DA_{59}	15.4	X	52.92212	13.05410	193.61154	10.38573	0.1512698	0.21920856	2.7241502	20	7 4.3	19.0
136523 2006 DM_{195}	14.9	X	340.22896	234.37241	42.12486	6.17103	0.2757859	0.21577852	2.7529432	20	5 16.1	17.1
136524 2006 EY_{16}	16.1	X	183.61388	195.96309	123.37613	2.14023	0.1911740	0.26621655	2.3932019	20	1 17.7	19.9
136525 2006 FQ_{44}	15.7	X	137.26672	151.96282	80.14815	2.37969	0.0675151	0.24017741	2.5631928	20	11 11.9	19.3
136526 2006 FU_{45}	14.7	X	270.80590	269.46211	207.30890	21.65356	0.2202807	0.17893839	3.1188922	20	10 21.7	18.7
136527 2006 GK_{22}	16.1	X	16.32696	141.86018	150.31137	4.03011	0.1500715	0.22537762	2.6742101	20	9 5.6	19.0
136528 2006 GM_{22}	15.5	X	273.28574	235.41766	76.71012	5.09544	0.0921829	0.21052878	2.7985199	20	4 17.4	19.4
136529 2006 GH_{36}	15.2	X	41.67785	344.09790	212.82160	13.25568	0.1213567	0.21489056	2.7605216	20	5 30.6	18.6
136530 2006 GS_{37}	16.3	X	340.71289	4.39572	262.75546	5.52139	0.0879366	0.28520538	2.2857614	20	5 21.5	18.3
136531 2006 HA_{4}	16.4	X	225.04683	229.65433	178.44330	5.73324	0.0597558	0.29158960	2.2522747	20	6 27.1	19.3
136532 2006 HL_{11}	15.5	X	55.12638	214.64576	56.53328	14.86912	0.0597065	0.23061679	2.6335533	20	9 30.7	19.2
136533 2006 HX_{25}	15.4	X	215.27274	115.67880	118.15013	2.13621	0.1233364	0.18249482	3.0782391	20	—	—
136534 2006 KK_{16}	14.6	X	218.58353	105.02458	104.77902	22.66327	0.1038378	0.17993241	3.1073950	20	12 27.2	19.1
136535 2006 KA_{85}	15.6	X	190.76298	219.97292	134.23176	10.94909	0.1592344	0.25864556	2.4396790	20	3 8.7	19.5
136536 2006 LJ_{5}	15.4	X	57.45381	203.30627	116.21403	14.12179	0.1796080	0.22628376	2.6670662	20	12 13.5	19.4
136537 2006 LX_{6}	16.4	X	317.14297	188.77009	135.42091	8.80404	0.1902878	0.27837748	2.3229863	20	6 23.8	18.4
136538 2006 MN_{3}	15.6	X	85.34234	189.67682	117.36206	12.94024	0.1794481	0.23053518	2.6341747	20	12 25.3	19.9
136539 2144 P–L	16.4	X	81.65664	73.55472	324.76351	3.56018	0.3289137	0.23588427	2.5941996	20	1 28.9	19.1
136540 2543 P–L	15.5	X	26.58697	302.45757	11.52425	5.88454	0.3022746	0.21484615	2.7609020	20	11 11.8	18.9
136541 3012 P–L	14.5	X	243.96516	81.59337	296.66226	9.28584	0.1259666	0.19341052	2.9613017	20	5 30.7	19.1
136542 3089 P–L	15.4	X	95.43083	18.93277	338.40052	13.86938	0.2034781	0.23512900	2.5997520	20	—	—
136543 3111 P–L	15.1	X	204.17825	85.70412	294.74351	9.35971	0.1108005	0.19191209	2.9766961	20	4 20.2	20.0
136544 4773 P–L	16.0	X	298.67342	180.73623	224.71662	1.04564	0.0709343	0.21356029	2.7719733	20	9 27.1	19.5
136545 5552 P–L	16.0	X	56.17552	355.84002	23.39793	7.95344	0.1962927	0.23418187	2.6067570	20	—	—
136546 6208 P–L	15.9	X	223.83930	309.19847	349.40642	14.33305	0.1522763	0.25579991	2.4577391	20	2 1.9	19.9
136547 6297 P–L	15.6	X	34.67974	26.85745	359.83443	14.93467	0.0472795	0.23381202	2.6095051	20	—	—
136548 6329 P–L	15.2	X	99.53254	173.39225	206.72234	5.69171	0.1343106	0.17137887	3.2099470	20	1 11.1	19.8
136549 6702 P–L	16.5	X	324.23726	337.42814	6.02678	7.42964	0.1667689	0.27849000	2.3223606	20	8 19.4	18.3
136550 6747 P–L	16.2	X	103.35523	285.00045	7.66446	16.57583	0.2444421	0.23405033	2.6077335	20	12 27.6	21.0
136551 6864 P–L	16.8	X	254.81914	237.40516	145.93772	3.19470	0.1050844	0.27670084	2.3323608	20	6 24.7	19.7
136552 1047 T–2	15.1	X	177.23873	313.79402	349.07350	9.77037	0.1992874	0.17591295	3.1545506	20	1 5.7	20.5
136553 1445 T–2	14.6	X	202.60553	262.03614	356.41181	11.97068	0.1518952	0.17491916	3.1664877	20	—	—
136554 2062 T–2	16.2	X	120.97741	153.89589	190.34407	4.54492	0.2393050	0.23841863	2.5757829	20	—	—
136555 2254 T–2	15.5	X	78.62764	59.10621	9.10496	12.86543	0.1530113	0.23957222	2.5675076	20	2 9.2	18.6
136556 3299 T–2	16.6	X	53.14005	247.94793	137.49148	3.13411	0.1348706	0.29969380	2.2114861	20	—	—
136557 Neleus	12.5	X	286.32647	162.82351	277.78727	9.96063	0.0627479	0.08280462	5.2131434	20	9 28.9	19.4
136558 5429 T–2	14.5	X	165.14951	156.26336	218.26846	17.18188	0.1531848	0.17966131	3.1105201	20	3 8.6	19.8
136559 1035 T–3	16.6	X	138.89392	354.87888	247.62054	7.35175	0.0736348	0.30121041	2.2040566	20	12 8.9	19.3
136560 1109 T–3	16.3	X	86.33680	204.92900	281.34235	6.16544	0.0522557	0.26637217	2.3922698	20	4 13.1	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136561 1304 $T-3$	14.5	X	120.85765	83.80784	270.26573	7.73417	0.1814300	0.16961875	3.2321151	20	1 11.2	19.4
136562 2609 $T-3$	15.5	X	316.10327	70.86873	213.55339	7.47627	0.1919916	0.20081797	2.8880254	20	4 23.0	18.8
136563 3288 $T-3$	16.5	X	81.68899	164.10884	200.32788	4.21404	0.1848399	0.23568754	2.5956430	20	—	—
136564 1977 VA	19.1	X	257.32862	172.60573	224.48744	2.98453	0.3944018	0.38674390	1.8657512	20	6 10.8	21.4
136565 1977 XF_3	15.3	X	272.81686	335.37908	72.92748	17.86093	0.2197868	0.20160359	2.8805176	20	8 4.2	19.5
136566 1978 VE_4	16.8	X	21.68955	328.29774	52.49825	3.91455	0.1668227	0.28416513	2.2913364	20	—	—
136567 1979 OA_{11}	15.4	X	335.79869	82.73780	236.02668	7.28865	0.0963554	0.19223075	2.9734056	20	7 22.7	19.1
136568 1980 XB	14.3	X	129.60599	41.40183	70.66824	23.82413	0.3708445	0.25890981	2.4380187	20	6 18.2	18.9
136569 1981 EN_2	15.1	X	130.33247	205.15512	258.00449	8.99448	0.1371622	0.18060741	3.0996477	20	5 23.8	19.8
136570 1981 EB_3	15.4	X	49.41382	291.21954	229.07608	8.58969	0.1631840	0.17784934	3.1316115	20	4 28.6	19.3
136571 1981 EL_8	15.0	X	146.65880	101.85062	339.92075	15.93170	0.2029735	0.18116518	3.0932824	20	5 12.3	20.4
136572 1981 EA_{14}	15.8	X	316.26586	31.23925	206.62124	6.64683	0.0853618	0.25197185	2.4825692	20	2 29.4	19.0
136573 1981 EJ_{14}	15.9	X	3.00391	222.87991	319.73101	6.37325	0.0850753	0.25183025	2.4834997	20	2 26.5	18.6
136574 1981 EW_{16}	16.3	X	175.20908	349.53329	229.15356	2.63991	0.2291712	0.21566319	2.7539245	20	11 22.5	21.0
136575 1981 EN_{28}	16.4	X	196.15325	207.38684	354.47668	4.81402	0.1146762	0.26633884	2.3924693	20	12 9.2	19.7
136576 1981 EN_{33}	16.9	X	277.59961	180.34320	318.25907	3.94885	0.1425068	0.29405061	2.2396904	20	—	—
136577 1981 EN_{38}	14.8	X	268.83069	23.98523	197.36229	12.45141	0.0794444	0.17142051	3.2094272	20	—	—
136578 1981 EL_{45}	16.0	X	35.36436	264.37801	258.41872	5.35379	0.0980458	0.25299334	2.4758823	20	3 22.8	18.7
136579 1981 EC_{48}	16.1	X	279.44218	8.56893	221.10461	4.47715	0.1813815	0.22307491	2.6925818	20	—	—
136580 1984 WL	14.9	X	269.51608	193.60691	254.23591	25.31050	0.2805247	0.27141589	2.3625402	20	9 2.7	18.5
136581 1986 GX	15.7	X	203.08478	42.81622	194.17323	9.24417	0.2088619	0.22043906	2.7140032	20	—	—
136582 1992 BA	19.9	X	328.83274	107.44448	140.18874	10.49796	0.0678280	0.63413627	1.3417790	20	2 5.1	19.0
136583 1992 DL_9	15.1	X	185.20952	256.08689	179.94414	9.04404	0.1263609	0.18550853	3.0448095	20	6 13.3	20.1
136584 1992 EE_{28}	15.9	X	236.12107	130.65437	348.42309	11.42673	0.1328231	0.26430025	2.4047559	20	10 4.1	19.1
136585 1992 SG_{19}	14.9	X	254.36596	116.65896	331.15549	11.12615	0.2336922	0.21067666	2.7972102	20	8 27.4	19.0
136586 1992 UC_7	17.1	X	66.89620	97.80790	202.77038	2.44578	0.1676149	0.28567587	2.2832511	20	12 8.9	20.2
136587 1993 FM_4	16.8	X	151.93633	107.21865	73.63417	1.70012	0.1383858	0.26915519	2.3757507	20	9 27.7	20.5
136588 1993 FF_7	16.3	X	15.41877	217.61525	35.07490	4.87946	0.0851011	0.26141578	2.4224130	20	7 3.3	18.9
136589 1993 FD_8	16.9	X	179.36540	79.83197	73.47627	3.20560	0.1506451	0.26982150	2.3718380	20	9 19.7	20.4
136590 1993 FE_{14}	15.4	X	123.66724	29.13510	94.42605	4.88127	0.1784864	0.18861994	3.0112327	20	6 15.5	20.1
136591 1993 FN_{18}	15.1	X	51.30956	168.06855	46.25724	9.44592	0.0655033	0.18848010	3.0127219	20	6 29.4	19.3
136592 1993 FE_{19}	15.1	X	94.43820	45.97501	117.41284	6.23956	0.0773924	0.18805607	3.0172490	20	6 21.9	19.3
136593 1993 FX_{19}	14.9	X	30.61764	187.69534	45.27391	12.27871	0.0839448	0.18809259	3.0168584	20	6 25.5	18.9
136594 1993 FK_{28}	16.2	X	26.30095	5.31315	218.38550	3.50925	0.1726878	0.25920303	2.4361798	20	6 18.1	18.4
136595 1993 FH_{29}	14.9	X	52.70512	157.75523	352.02002	15.81503	0.1606001	0.18371624	3.0645804	20	4 13.5	18.8
136596 1993 FG_{30}	15.4	X	282.41885	40.24726	207.50084	10.83287	0.1972167	0.17680848	3.1438899	20	1 25.2	20.4
136597 1993 FA_{31}	15.6	X	126.61574	349.25086	111.94916	2.42452	0.1900948	0.18708175	3.0277158	20	5 23.2	20.3
136598 1993 FJ_{31}	16.7	X	84.01579	161.21398	54.50494	3.52322	0.1582852	0.26427179	2.4049285	20	9 4.9	20.1
136599 1993 FR_{37}	16.3	X	346.00437	41.39184	170.28687	2.66402	0.1286447	0.25424762	2.4677327	20	3 6.4	18.8
136600 1993 FL_{38}	16.8	X	280.27817	85.49596	47.40121	2.66862	0.1497430	0.27808746	2.3246011	20	—	—
136601 1993 FC_{49}	15.5	X	84.66844	191.89634	31.85725	0.77476	0.0338903	0.19348733	2.9605179	20	8 21.3	19.5
136602 1993 HT_2	16.7	X	209.55299	287.49249	158.71038	6.31898	0.1609884	0.26544383	2.3978442	20	7 20.1	20.3
136603 1993 PR_4	16.6	X	263.66320	55.49096	284.07643	3.76767	0.1736481	0.32214400	2.1075086	20	4 22.0	19.2
136604 1993 QD_1	15.4	X	104.69250	18.00482	340.02097	13.52814	0.2599579	0.23327871	2.6134808	20	—	—
136605 1993 SC_8	16.6	X	19.14834	204.31171	176.58045	2.46970	0.2493149	0.22440152	2.6819593	20	—	—
136606 1993 TD_6	16.0	X	85.28450	101.12266	226.35331	5.52735	0.2237849	0.22674595	2.6634407	20	—	—
136607 1993 TW_{19}	15.7	X	86.80723	291.14609	56.31853	3.89869	0.0526557	0.22799592	2.6536970	20	—	—
136608 1993 TF_{25}	15.9	X	28.56758	359.28849	27.60809	14.53338	0.2515798	0.22536849	2.6742823	20	—	—
136609 1993 TY_{30}	15.9	X	57.21232	259.83570	159.49904	2.99542	0.1651393	0.23057455	2.6338748	20	—	—
136610 1993 TK_{31}	16.1	X	48.80302	322.77713	72.94985	3.47102	0.0875400	0.22804476	2.6533181	20	—	—
136611 1993 TB_{32}	16.0	X	62.17694	311.66899	35.41350	13.70142	0.2746548	0.22614800	2.6681335	20	—	—
136612 1993 TW_{37}	15.9	X	333.67601	25.85615	43.83194	16.23356	0.1923246	0.22271105	2.6955137	20	—	—
136613 1993 TA_{38}	16.2	X	75.79632	271.33518	126.59096	4.41522	0.2167844	0.23075949	2.6324674	20	—	—
136614 1993 VA_6	15.9	X	185.42395	241.76340	270.41003	3.79892	0.0970959	0.21557810	2.7546491	20	9 17.4	20.2
136615 1994 AP_{10}	14.3	X	74.08647	334.88640	108.59055	10.76303	0.0899446	0.15324451	3.4584335	20	2 23.9	19.1
136616 1994 AJ_{12}	15.9	X	11.40089	284.10026	108.27642	3.79506	0.1904053	0.21882352	2.7273448	20	—	—
136617 1994 CC	17.7	X	71.31217	24.85280	268.54690	4.68138	0.4170497	0.47028979	1.6376673	20	—	—
136618 1994 CN_2	16.7	X	260.82004	248.25754	99.33695	1.43929	0.3949476	0.49961300	1.5729451	20	4 3.4	18.6
136619 1994 CH_{18}	16.3	X	340.87774	64.47570	30.78747	4.12683	0.2090799	0.29371247	2.2414091	20	—	—
136620 1994 JC	14.9	X	89.81541	138.28018	37.21267	31.23251	0.5201950	0.16114317	3.3444762	20	9 3.8	21.5
136621 1994 JD_7	15.7	X	259.73542	149.99337	178.86242	1.70927	0.2209008	0.18759494	3.0221914	20	4 7.2	20.5
136622 1994 PC_6	15.5	X	179.98422	43.26588	338.53335	4.02787	0.1677282	0.17630378	3.1498869	20	4 2.9	20.6
136623 1994 PS_6	15.2	X	162.07083	232.58427	174.80765	5.16530	0.1863473	0.17606393	3.1527470	20	4 20.7	20.5
136624 1994 PD_{14}	14.6	X	132.31419	72.94962	295.62229	3.72045	0.1497352	0.17013779	3.2255382	20	2 4.9	19.5
136625 1994 PW_{15}	16.3	X	211.08201	230.80785	166.60564	3.78581	0.2178944	0.25632336	2.4543920	20	5 17.2	20.4
136626 1994 PX_{18}	15.8	X	126.46914	2.74614	335.75241	13.78208	0.1837492	0.24285927	2.5442880	20	—	—
136627 1994 PM_{19}	15.6	X	197.81113	148.82697	149.00351	1.19485	0.2037868	0.17120980	3.2120599	20	1 14.9	21.0
136628 1994 PL_{21}	15.0	X	167.54294	214.07739	129.04631	1.08813	0.1520190	0.17180215	3.2046725	20	2 8.9	20.2
136629 1994 PB_{29}	16.6	X	231.97200	234.24699	107.44306	3.24379	0.2143009	0.25484985	2.4638436	20	3 27.4	20.6
136630 1994 RJ_5	15.4	X	285.93853	288.28024	316.97009	3.96257	0.1016515	0.17263306	3.1943812	20	2 10.0	20.1
136631 1994 RR_6	17.1	X	223.06586	194.89441	233.15177	1.88374	0.1677276	0.25904307	2.4371826	20	7 9.7	20.9
136632 1994 SG_5	16.4	X	78.23478	177.64144	23.54402	3.08226	0.1642785	0.25987890	2.4319541	20	8 8.9	19.7
136633 1994 SH_6	15.2	X	41.28919	123.68666	25.30608	5.02607	0.0771373	0.17188545	3.2036370	20	3 24.9	19.3
136634 1994 SE_7	15.1	X	333.20274	150.43688	43.27210	1.56767	0.1283973	0.17016244	3.2252267	20	2 5.5	19.2
136635 1994 VA_1	19.0	X	210.89829	311.01264	231.73267	7.63732	0.1750436	0.49940473	1.5733824	20	—	—
136636 1994 VE_4	15.8	X	97.62403	189.80268	234.51951	7.29527	0.1452371	0.24407797	2.5358116	20	2 20.9	19.2
136637 1994 WA_5	15.5	X	85.30556	146.32575	46.48192	1.83370	0.1134422	0.17877032	3.1208467	20	7 23.4	19.9
136638 1995 BE_1	15.2	X	32.95388	129.10145	315.82673	26.42694	0.3028844	0.23418460	2.6067367	20	—	—
136639 1995 CD_3	16.2	X	253.92467	7.91901	169.02362	3.53929	0.0175030	0.22651382	2.6652600	20	—	—
136640 1995 CJ_3	16.3	X	48.61517	229.77861	164.26495	4.03916	0.0943952	0.22900109	2.6459259	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136641 1995 CJ_6	16.4	X	135.40713	293.50000	260.98848	1.82052	0.1546332	0.21391984	2.7688664	20	9 21.4	20.8
136642 1995 DF_8	15.9	X	211.72352	257.82448	154.41589	3.24475	0.1325664	0.24635615	2.5201542	20	6 9.9	19.8
136643 1995 EV_6	16.4	X	332.04498	289.30239	159.50862	1.89733	0.0539549	0.22338063	2.6901245	20	—	—
136644 1995 FC_9	16.8	X	149.41383	95.71588	27.09101	12.51840	0.1178833	0.24497821	2.5295955	20	7 9.6	20.9
136645 1995 FV_{12}	16.0	X	301.21237	104.12371	7.56659	4.08384	0.0724084	0.22108761	2.7086930	20	12 29.9	19.2
136646 1995 FW_{14}	16.0	X	145.29988	140.34507	144.52173	4.93378	0.0867357	0.22058000	2.7128470	20	—	—
136647 1995 FR_{17}	16.9	X	33.20687	256.30876	61.91706	6.91315	0.1608474	0.28878717	2.2668222	20	11 22.8	19.6
136648 1995 GQ_2	16.4	X	124.07534	280.70489	105.48277	3.68013	0.0484694	0.23042253	2.6350332	20	1 28.3	19.9
136649 1995 GA_4	15.7	X	41.16184	213.81687	127.72609	4.43767	0.0933156	0.21589651	2.7519400	20	12 6.8	19.5
136650 1995 HK_2	15.9	X	16.50774	271.23675	85.79272	6.10938	0.0409194	0.21310490	2.7759210	20	11 16.7	19.6
136651 1995 HT_3	15.7	X	277.80655	239.34390	166.93773	4.92000	0.0722845	0.20802936	2.8208909	20	8 27.5	19.5
136652 1995 MB_1	15.4	X	292.87506	357.67152	114.52820	10.47421	0.1291203	0.21683735	2.7439740	20	12 13.1	18.6
136653 1995 MU_1	15.1	X	301.27065	262.49848	118.42902	10.11545	0.1443938	0.20469469	2.8514449	20	8 20.4	18.4
136654 1995 MB_2	16.6	X	300.43750	250.57629	244.54741	6.98911	0.0543113	0.29177832	2.2513035	20	—	—
136655 1995 MQ_7	16.3	X	182.54975	191.54308	151.48927	7.31295	0.1440975	0.26579426	2.3957361	20	2 12.2	19.8
136656 1995 OP_2	17.1	X	61.67436	75.10883	196.62043	5.40898	0.0943141	0.28098315	2.3086027	20	10 15.9	20.0
136657 1995 OX_4	15.8	X	193.47701	327.75992	17.32418	1.23145	0.1134893	0.18205696	3.0831728	20	3 3.7	20.5
136658 1995 OQ_6	16.8	X	277.82753	139.18120	200.14680	4.36622	0.1604266	0.27091119	2.3654735	20	5 16.0	19.7
136659 1995 OA_8	16.5	X	316.24288	144.77398	262.65225	6.04842	0.0916456	0.28231177	2.3013538	20	11 12.5	18.7
136660 1995 OA_{12}	16.6	X	321.33283	174.55372	121.24741	2.22458	0.1677667	0.27134601	2.3629458	20	5 20.7	18.9
136661 1995 OL_{12}	17.1	X	299.90379	181.86138	140.17067	1.98098	0.1891687	0.26967396	2.3727029	20	5 18.7	19.7
136662 1995 QZ_3	16.3	X	344.13594	354.38646	335.31668	7.43895	0.1417275	0.27467993	2.3437868	20	9 6.6	18.3
136663 1995 QL_5	15.4	X	66.14861	255.52388	285.75651	9.57499	0.0407602	0.19096002	2.9865818	20	6 2.2	19.5
136664 1995 QM_6	15.5	X	234.48950	53.72726	241.63542	4.87949	0.1402566	0.18291734	3.0734970	20	2 9.6	20.5
136665 1995 QB_9	15.4	X	270.12839	69.66630	175.47596	11.46736	0.0384306	0.18114943	3.0934617	20	1 27.9	20.0
136666 Seidel	16.7	X	300.05070	342.90358	74.29060	3.18613	0.2139215	0.27737472	2.3285816	20	10 19.1	18.1
136667 1995 SZ_7	15.5	X	69.02985	23.26182	176.95916	1.77927	0.0425519	0.19025567	2.9939484	20	7 1.6	19.5
136668 1995 ST_9	17.7	X	356.72836	153.34779	160.38130	1.42006	0.1975922	0.27585610	2.3371199	20	9 15.8	19.4
136669 1995 SF_{11}	16.5	X	136.75330	327.87673	183.62873	2.16649	0.0988059	0.26886696	2.3774483	20	8 1.1	19.8
136670 1995 SU_{16}	15.3	X	211.42390	329.09350	352.61761	7.47945	0.1142811	0.18061746	3.0995327	20	2 23.3	20.1
136671 1995 SN_{17}	14.8	X	218.59066	244.43703	14.66526	16.46171	0.1283311	0.17352041	3.1834816	20	—	—
136672 1995 SU_{18}	15.8	X	201.54697	41.09685	343.03073	0.89674	0.0748731	0.18325153	3.0697591	20	4 27.2	20.5
136673 1995 SB_{20}	17.5	X	321.12167	263.62715	28.26805	1.38946	0.1608642	0.26809794	2.3819925	20	5 14.4	19.7
136674 1995 SH_{20}	15.6	X	48.23386	117.12142	123.36530	0.80925	0.0918559	0.19052718	2.9911034	20	8 2.7	19.4
136675 1995 SA_{23}	16.9	X	176.64825	0.00725	94.05832	2.36059	0.1444112	0.26678282	2.3898142	20	6 28.9	20.6
136676 1995 ST_{24}	16.9	X	294.83392	213.97409	97.10510	1.82168	0.2146067	0.26827139	2.3809657	20	4 21.0	19.6
136677 1995 SW_{24}	16.6	X	265.11252	41.68786	21.34871	7.23761	0.0744241	0.27445835	2.3450481	20	9 13.5	19.3
136678 1995 SG_{25}	16.9	X	237.19279	31.53911	71.68560	2.93856	0.1364406	0.27481721	2.3430062	20	9 19.8	19.8
136679 1995 SK_{26}	16.1	X	138.42411	145.76713	8.30323	4.81950	0.1353589	0.26911462	2.3759895	20	8 10.6	19.6
136680 1995 SW_{27}	15.8	X	185.78144	35.08138	24.36533	1.58546	0.1804204	0.18347830	3.0672293	20	5 23.3	20.8
136681 1995 SE_{29}	16.0	X	128.93386	340.10343	21.41915	0.90269	0.1842817	0.17611111	3.1521839	20	1 28.2	20.8
136682 1995 SC_{31}	17.0	X	299.18987	289.09390	358.94445	4.74874	0.1371962	0.26759943	2.3849499	20	4 5.7	19.8
136683 1995 SG_{34}	17.6	X	339.66149	268.46686	15.31593	1.48050	0.1741800	0.27118218	2.3638973	20	6 8.5	19.5
136684 1995 SD_{35}	14.6	X	122.49663	65.57751	17.58210	17.89979	0.1353509	0.17921458	3.1156870	20	4 18.8	19.4
136685 1995 SJ_{35}	15.8	X	96.29223	83.14273	20.91882	13.60817	0.1215551	0.17837957	3.1254026	20	4 15.2	20.2
136686 1995 SQ_{35}	17.3	X	247.14949	235.45850	185.31351	3.57014	0.2017847	0.27172937	2.3607228	20	7 22.7	20.5
136687 1995 SH_{36}	17.6	X	29.56401	290.59219	5.41934	2.78717	0.2399145	0.27839788	2.3228728	20	10 27.6	20.3
136688 1995 SA_{37}	15.8	X	102.69600	30.74846	270.91213	0.90157	0.0430486	0.20563421	2.8427531	20	12 20.7	19.8
136689 1995 SF_{38}	17.3	X	300.99081	213.54652	198.37320	0.57177	0.1342361	0.27774273	2.3265242	20	10 19.2	19.1
136690 1995 SE_{41}	16.9	X	269.36391	288.16924	110.55553	2.25350	0.1914793	0.27160196	2.3614610	20	7 23.3	19.6
136691 1995 SC_{44}	15.2	X	150.11225	207.99055	198.74743	10.84621	0.1243443	0.17938811	3.1136774	20	4 4.2	20.0
136692 1995 SC_{45}	16.4	X	129.13953	92.75174	6.63833	0.59483	0.1340240	0.18121660	3.0926972	20	5 17.9	21.2
136693 1995 SE_{45}	17.5	X	332.69975	262.99269	18.35561	4.13047	0.1834952	0.26839587	2.3802295	20	5 16.9	19.5
136694 1995 SS_{49}	17.5	X	349.22503	240.69701	35.79855	3.41424	0.1824506	0.27068406	2.3667965	20	6 19.4	19.3
136695 1995 SP_{50}	16.6	X	260.51909	153.35807	210.19608	2.30237	0.2460845	0.26815952	2.3816279	20	5 16.2	20.1
136696 1995 SC_{52}	17.5	X	26.04297	75.92620	199.78871	0.99502	0.1768188	0.27347896	2.3506435	20	9 10.7	19.7
136697 1995 SN_{60}	16.8	X	79.79865	169.40915	35.23860	3.15475	0.1228352	0.27099373	2.3649932	20	8 10.8	19.8
136698 1995 SO_{63}	17.1	X	331.34758	119.53516	206.33101	1.33470	0.3398074	0.27389543	2.3482601	20	7 12.1	17.4
136699 1995 SD_{71}	14.3	X	71.60128	125.75283	17.56087	17.08127	0.1644632	0.17936490	3.1139460	20	5 5.3	18.6
136700 1995 SM_{79}	17.1	X	134.78460	291.56403	322.70280	1.23636	0.0347483	0.28474470	2.2882262	20	12 16.9	20.1
136701 1995 SY_{79}	15.1	X	154.09101	42.99193	348.79145	11.04636	0.1221555	0.18122808	3.0925665	20	3 19.9	20.0
136702 1995 SU_{85}	16.6	X	156.20926	16.23898	26.88315	2.06592	0.2067884	0.17926097	3.1151495	20	4 10.6	21.9
136703 1995 SJ_{88}	16.4	X	303.23915	57.90902	210.56946	4.30603	0.0876361	0.18269232	3.0760202	20	3 30.9	20.7
136704 1995 TW	15.1	X	179.13835	164.01819	244.62419	22.72645	0.1448016	0.18293588	3.0732893	20	5 3.4	20.2
136705 1995 TY_1	16.3	X	348.34230	348.44792	356.44980	4.49897	0.1749321	0.27664220	2.3326904	20	10 14.0	18.2
136706 1995 TT_4	16.3	X	136.78323	288.05666	207.92717	2.60374	0.1790909	0.18435803	3.0574640	20	7 12.4	21.2
136707 1995 TE_6	15.8	X	151.96741	351.64243	26.58225	10.78997	0.1365744	0.17691968	3.1425723	20	3 8.8	20.8
136708 1995 TY_7	16.0	X	338.22531	286.98379	25.83204	5.83607	0.2242176	0.27140380	2.3626104	20	7 26.8	17.5
136709 1995 TE_9	17.0	X	334.23512	176.71025	168.63304	6.74954	0.1843695	0.27621408	2.3351001	20	9 12.6	18.5
136710 1995 UU_{10}	16.8	X	317.04058	42.58661	310.35721	1.50961	0.2338155	0.27392059	2.3481163	20	8 5.4	18.3
136711 1995 UC_{11}	17.0	X	331.51422	33.24149	275.43369	1.10590	0.1975301	0.27184866	2.3600321	20	6 29.6	18.8
136712 1995 UE_{11}	14.9	X	173.59738	210.73925	200.45803	8.08192	0.0838681	0.18327654	3.0694799	20	5 2.2	19.5
136713 1995 US_{12}	16.4	X	297.62308	71.81649	11.97745	2.61309	0.1832921	0.27824284	2.3237356	20	11 27.7	17.9
136714 1995 UX_{13}	16.4	X	105.02399	141.28952	23.47289	6.64471	0.0546397	0.26685777	2.3893667	20	7 8.2	19.6
136715 1995 UO_{14}	15.0	X	80.13608	225.69074	229.18733	7.58344	0.0980070	0.17465197	3.1697162	20	3 9.1	19.5
136716 1995 UA_{15}	16.7	X	104.14226	236.96967	23.28956	7.11850	0.0844587	0.27774537	2.3265095	20	11 16.9	20.1
136717 1995 UM_{17}	16.4	X	322.13116	238.47701	104.30690	3.36808	0.2201637	0.27163091	2.3612933	20	8 3.2	17.8
136718 1995 UP_{18}	15.1	X	154.49760	68.69893	4.57672	9.02635	0.0463538	0.18351592	3.0668101	20	5 3.3	19.6
136719 1995 UT_{18}	16.7	X	210.99062	271.32242	211.50710	5.90252	0.0717898	0.27508009	2.3415132	20	9 18.9	19.7
136720 1995 UD_{24}	15.8	X	243.17912	327.05796	333.93789	2.37405	0.0478821	0.17722939	3.1389102	20	3 5.1	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136721 1995 UC_{25}	16.3	X	53.74762	127.49075	91.03258	4.34138	0.1704968	0.26504018	2.4002782	20	7 31.7	19.0
136722 1995 UO_{27}	15.7	X	90.65617	54.63573	25.51257	9.83740	0.0754043	0.17678064	3.1442199	20	3 8.1	20.1
136723 1995 UC_{31}	16.9	X	336.34400	149.89041	154.27972	2.63491	0.2103095	0.26929488	2.3749291	20	7 2.7	18.4
136724 1995 UK_{33}	15.2	X	154.33015	348.99796	53.62786	11.75118	0.2270791	0.17843511	3.1247541	20	4 13.0	20.5
136725 1995 UP_{40}	15.1	X	52.68514	211.66285	202.81705	7.14569	0.0389937	0.17051499	3.2207796	20	—	—
136726 1995 UH_{41}	15.3	X	239.14143	113.40952	205.07292	8.67071	0.0856737	0.18196789	3.0841788	20	3 16.3	20.0
136727 1995 UB_{51}	17.2	X	28.76171	52.32702	209.38068	1.93660	0.1755701	0.27160417	2.3614482	20	8 23.9	19.5
136728 1995 UW_{52}	15.0	X	117.54571	81.59821	6.81964	11.15901	0.0977750	0.18043173	3.1016594	20	4 15.8	19.6
136729 1995 UR_{57}	15.9	X	249.30902	188.41125	203.33948	4.70315	0.1747785	0.18880540	3.0092604	20	6 17.8	20.5
136730 1995 UE_{59}	16.9	X	275.04932	259.64671	84.91753	3.47771	0.2048368	0.26659742	2.3909221	20	5 13.1	19.9
136731 1995 US_{59}	17.3	X	350.44440	53.87456	227.02579	0.69050	0.1737024	0.26973873	2.3723232	20	6 30.6	18.8
136732 1995 UV_{60}	15.1	X	117.53470	359.63769	28.53293	9.80872	0.0916134	0.17482618	3.1676102	20	2 9.3	19.8
136733 1995 UE_{61}	15.0	X	69.02694	293.62574	180.41278	11.00711	0.0365119	0.17825775	3.1268263	20	3 12.2	19.2
136734 1995 VF_{6}	16.8	X	353.28530	267.73711	55.23097	6.61381	0.0626983	0.27100990	2.3648991	20	9 12.9	19.4
136735 1995 VP_{10}	15.3	X	231.51488	120.83594	204.77837	16.37051	0.2065490	0.18141469	3.0904454	20	3 7.9	20.7
136736 1995 VW_{10}	15.2	X	167.47999	253.47067	69.65046	6.84053	0.1440183	0.17298036	3.1901041	20	1 17.4	20.3
136737 1995 VA_{12}	16.3	X	262.07859	254.47524	104.68809	3.90708	0.1849259	0.26684574	2.3894386	20	5 20.4	19.7
136738 1995 VV_{12}	16.1	X	149.76267	78.06893	65.58619	6.79373	0.0859439	0.26804575	2.3823017	20	8 7.9	19.6
136739 1995 VD_{13}	15.3	X	330.67587	87.53856	145.26521	3.74377	0.0666636	0.17921743	3.1156540	20	3 28.2	19.4
136740 1995 VW_{14}	15.6	X	169.77485	200.71302	236.29622	4.29210	0.1343649	0.18112244	3.0937690	20	5 30.4	20.6
136741 1995 VL_{16}	16.4	X	347.99216	141.77667	224.91103	1.63945	0.2291688	0.27631444	2.3345347	20	11 26.8	18.3
136742 1995 VA_{17}	15.7	X	115.59823	21.05090	248.37742	1.62522	0.0177134	0.19775318	2.9177880	20	11 22.9	19.8
136743 Echigo	16.6	X	314.18085	161.97140	244.51868	1.25255	0.2328945	0.27531969	2.3401545	20	11 4.6	17.9
136744 1995 WP_{7}	16.8	X	294.61485	132.00854	271.95887	1.33858	0.2312843	0.27213254	2.3583906	20	9 6.5	18.8
136745 1995 WL_{8}	18.0	X	279.52608	131.54471	247.94866	17.78302	0.4840025	0.27085383	2.3658075	20	5 27.0	21.7
136746 1995 WJ_{17}	15.8	X	34.02549	232.03754	261.76878	3.65460	0.1340901	0.17292539	3.1907801	20	2 24.6	19.6
136747 1995 WD_{18}	15.3	X	109.16259	160.94806	246.43627	3.96603	0.1666238	0.17342948	3.1845942	20	2 26.6	20.0
136748 1995 WG_{23}	16.4	X	337.95094	265.88887	33.55799	7.05411	0.1208424	0.26934038	2.3746617	20	7 6.1	18.7
136749 1995 WM_{23}	17.2	X	128.50695	136.37458	19.30881	1.61282	0.1264679	0.26699332	2.3885579	20	7 31.4	20.5
136750 1995 YL_{5}	16.7	X	291.35742	278.60878	115.80387	2.05964	0.1661626	0.23149895	2.6268586	20	8 21.7	19.5
136751 1995 YN_{5}	15.3	X	120.08275	295.05351	71.26988	11.01002	0.2043943	0.17102540	3.2143683	20	1 29.9	20.3
136752 1995 YD_{11}	16.7	X	206.40991	165.67832	256.81484	4.49746	0.1938659	0.26132800	2.4229554	20	6 14.4	20.5
136753 1995 YJ_{17}	15.6	X	148.80479	9.58026	80.57831	6.28115	0.1310841	0.17976927	3.1092746	20	5 26.6	20.5
136754 1996 AA_{6}	16.6	X	4.47419	20.81361	7.45128	2.52419	0.2120772	0.27594628	2.3366107	20	—	—
136755 1996 AH_{10}	15.6	X	289.49473	247.92291	284.76005	6.32088	0.1509828	0.23897563	2.5717789	20	—	—
136756 1996 AO_{18}	16.7	X	244.10949	281.06120	97.57587	4.80486	0.2561820	0.26602779	2.3943339	20	5 19.6	20.6
136757 1996 BV_{15}	16.0	X	129.57271	16.60066	294.81994	10.90170	0.1787350	0.23787345	2.5797170	20	—	—
136758 1996 EC_{6}	16.0	X	34.30358	286.37181	174.08752	6.64358	0.2015602	0.24248496	2.5469056	20	—	—
136759 1996 FB_{2}	15.6	X	339.30258	352.53029	183.43354	25.40523	0.0963472	0.24184054	2.5514279	20	1 10.6	19.4
136760 1996 FX_{9}	16.3	X	40.62883	284.81484	196.23664	6.45416	0.1754814	0.24426598	2.5345103	20	2 7.8	18.7
136761 1996 GH_{14}	15.0	X	255.35565	298.04142	35.28242	9.60980	0.1420680	0.20562064	2.8428782	20	4 16.3	19.2
136762 1996 GC_{21}	15.5	X	182.22775	81.31901	208.92735	14.78734	0.1196319	0.23144515	2.6272657	20	—	—
136763 1996 HU_{4}	16.6	X	257.77030	91.02677	146.61282	4.07695	0.1672216	0.23661881	2.5888280	20	—	—
136764 1996 HM_{23}	15.7	X	358.30650	69.14402	132.92048	2.80484	0.1352089	0.24357393	2.5393088	20	3 17.1	18.2
136765 1996 JA	15.3	X	175.65757	191.21817	62.35092	11.50379	0.1540706	0.22955482	2.6416693	20	—	—
136766 1996 JD_{4}	16.1	X	36.13829	32.85833	61.89848	11.41136	0.1616403	0.23728064	2.5840119	20	—	—
136767 1996 JA_{9}	16.3	X	37.51892	194.09977	150.54860	7.03156	0.1050891	0.22077132	2.7112794	20	12 9.3	20.0
136768 1996 JY_{9}	16.3	X	39.02998	310.78026	110.27238	2.77983	0.1139658	0.23112389	2.6296997	20	—	—
136769 1996 OD	15.3	X	69.72594	352.26082	276.23318	12.91777	0.0998562	0.21056707	2.7981807	20	10 3.6	19.6
136770 1996 PC_{1}	20.6	X	174.69143	45.90888	326.23281	25.10170	0.4515076	0.39534382	1.8385950	20	3 8.4	24.3
136771 1996 PA_{2}	16.4	X	118.91654	33.20292	318.62346	5.45128	0.2270859	0.30598944	2.1810473	20	—	—
136772 1996 RK_{20}	16.2	X	323.38222	315.42534	118.33510	1.64041	0.0480944	0.21316941	2.7753609	20	12 10.9	19.6
136773 1996 TR_{6}	18.5	X	3.89962	117.60377	196.29750	22.09907	0.1803074	0.49401399	1.5848076	20	12 1.3	20.1
136774 1996 TC_{12}	16.4	X	36.00072	228.79116	123.58502	0.52808	0.0833369	0.21072036	2.7968234	20	12 10.6	20.1
136775 1996 TF_{21}	16.1	X	65.06425	359.18978	212.99051	2.93872	0.0729437	0.19418617	2.9534107	20	7 16.3	20.1
136776 1996 TB_{22}	17.3	X	32.30881	46.38386	266.20746	1.11278	0.0732513	0.28881568	2.2666730	20	10 30.1	19.7
136777 1996 TN_{27}	15.0	X	132.31544	263.28138	175.28727	11.07860	0.1507755	0.18732003	3.0251476	20	4 29.5	19.8
136778 1996 TN_{37}	16.1	X	262.30559	232.18532	209.21922	1.21723	0.0362428	0.20201269	2.8766275	20	9 26.3	20.1
136779 1996 TO_{68}	17.0	X	133.01673	324.35642	14.01331	1.07076	0.2226192	0.30513514	2.1851163	20	—	—
136780 1996 VV_{11}	16.0	X	213.35700	200.47211	348.45570	6.86616	0.1040729	0.29166180	2.2519030	20	12 21.9	18.8
136781 1996 VA_{17}	15.7	X	295.41840	355.15230	54.11561	2.85802	0.0645556	0.20203476	2.8764180	20	9 27.7	19.5
136782 1996 VJ_{26}	16.9	X	308.10695	132.04476	326.47474	5.96482	0.1255052	0.29308076	2.2446287	20	—	—
136783 1996 VR_{26}	15.8	X	163.52407	168.81840	186.83235	10.02497	0.0676024	0.18049710	3.1009104	20	2 11.3	20.5
136784 1996 WT_{1}	15.1	X	209.07639	213.64099	195.95150	0.74076	0.3349842	0.19062650	2.9900644	20	5 25.8	20.6
136785 1996 XC_{2}	16.3	X	70.34094	194.30173	74.23823	7.93052	0.1002331	0.28508519	2.2864039	20	10 26.8	19.3
136786 1996 XX_{4}	16.3	X	17.21987	339.58318	0.04353	5.40834	0.1504080	0.28836585	2.2690296	20	11 26.8	18.9
136787 1996 XG_{10}	16.4	X	47.02787	252.11600	93.20392	6.32474	0.1530062	0.29191932	2.2505785	20	—	—
136788 1996 XG_{11}	16.6	X	198.73476	80.04175	128.42006	3.49150	0.0526176	0.29153559	2.2525529	20	—	—
136789 1996 XV_{11}	15.8	X	305.55807	244.69298	93.09049	8.71310	0.1503032	0.27417333	2.3466730	20	6 28.4	18.2
136790 1996 YV_{2}	16.4	X	210.74299	177.05650	298.68308	3.24020	0.1800411	0.27810047	2.3245287	20	8 28.8	20.0
136791 1997 AF_{8}	15.8	X	94.75695	263.99384	270.31689	2.85894	0.2247329	0.18228956	3.0805494	20	7 23.9	20.5
136792 1997 AU_{16}	14.3	X	106.39265	330.30426	109.88029	31.34008	0.3234723	0.17888140	3.1195547	20	5 6.7	20.0
136793 1997 AQ_{18}	18.3	X	108.86713	37.00933	296.26751	17.37450	0.4653390	0.80226402	1.1470733	20	—	—
136794 1997 AS_{19}	16.4	X	70.88091	294.15097	267.19324	2.11286	0.1229836	0.26844741	2.3799248	20	7 22.9	19.2
136795 1997 BQ	18.1	X	17.87248	147.45550	50.19094	10.99172	0.4786098	0.42676310	1.7472088	20	—	—
136796 1997 BO_{6}	15.6	X	351.61589	44.28793	93.07945	3.80416	0.1011303	0.21154929	2.7895127	20	—	—
136797 1997 CF_{1}	16.5	X	67.45977	341.03115	115.28279	8.03306	0.1422295	0.29929387	2.2134557	20	2 12.9	18.3
136798 1997 CG_{2}	16.5	X	287.20618	17.37860	322.90194	1.69219	0.1342186	0.27105536	2.3646346	20	6 3.4	19.1
136799 1997 CP_{5}	17.2	X	270.55992	287.92696	143.34408	4.23864	0.1757378	0.27892912	2.3199225	20	9 16.5	19.7
136800 1997 CS_{13}	15.1	X	143.71627	74.22779	302.39605	6.10725	0.0564905	0.17387953	3.1790967	20	2 15.5	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136801 1997 CC_{25}	16.9	X	340.44897	238.99475	44.70061	3.17617	0.1688413	0.26725737	2.3869844	20	6 10.6	18.6
136802 1997 CB_{27}	15.7	X	86.49294	143.74930	24.85865	6.93294	0.2196308	0.26355026	2.4093159	20	7 13.1	19.1
136803 Calliemorgan	15.4	X	105.71793	173.39255	347.15709	24.95313	0.2372489	0.26801381	2.3824910	20	8 2.6	19.5
136804 1997 EQ_{5}	16.6	X	48.64368	158.16268	6.08559	2.40576	0.1083725	0.25918076	2.4363193	20	4 20.4	19.3
136805 1997 EM_{30}	17.1	X	238.46479	130.27325	175.65875	1.20531	0.1416469	0.25362533	2.4717676	20	2 20.5	21.0
136806 1997 EG_{32}	17.2	X	1.38307	81.13507	192.76525	0.55565	0.1560178	0.26367142	2.4085778	20	7 13.9	19.1
136807 1997 EQ_{38}	14.8	X	333.24117	199.39419	327.53719	1.48255	0.2526777	0.16715209	3.2638348	20	—	—
136808 1997 EN_{47}	16.5	X	37.87550	357.59693	200.69905	1.96696	0.1356183	0.25999508	2.4312295	20	5 27.3	18.9
136809 1997 GB_{1}	17.0	X	278.24731	234.08961	192.95354	4.68407	0.1723821	0.27650863	2.3334415	20	9 21.8	19.2
136810 1997 GZ_{8}	16.8	X	33.05309	204.79229	194.62829	21.28419	0.0895671	0.36925101	1.9242209	20	—	—
136811 1997 GG_{13}	16.2	X	180.89914	313.55820	195.56650	6.13906	0.0526163	0.27188816	2.3598036	20	9 19.4	19.2
136812 1997 GH_{17}	16.9	X	57.61193	300.01903	291.56784	1.69080	0.1725048	0.26510014	2.3999162	20	8 24.2	19.8
136813 1997 GM_{35}	16.5	X	159.78009	39.83885	144.93345	2.85882	0.1476894	0.27211125	2.3585136	20	10 10.8	20.0
136814 1997 HB_{3}	17.1	X	313.58536	38.39023	212.67722	0.75427	0.1559457	0.25520189	2.4615772	20	3 4.9	19.9
136815 1997 HL_{3}	16.4	X	153.70461	159.37107	7.42479	3.85780	0.1691610	0.27163596	2.3612640	20	9 11.2	20.0
136816 1997 HL_{8}	16.1	X	211.57567	31.17221	187.77695	3.36406	0.0772020	0.23862820	2.5742746	20	—	—
136817 1997 JR_{5}	15.5	X	141.10759	256.15154	102.75046	16.62280	0.2222762	0.24247806	2.5469539	20	2 3.3	19.5
136818 Selqet	18.9	X	257.80164	203.81571	259.93795	12.77859	0.3463650	1.08577001	0.9375134	20	—	—
136819 1997 MG_{7}	16.3	X	198.66685	49.96185	222.97865	8.96462	0.1793964	0.23632952	2.5909403	20	—	—
136820 1997 MF_{9}	16.0	X	329.22660	254.55293	291.63036	4.52926	0.0614920	0.24064683	2.5598585	20	1 17.4	19.2
136821 1997 NR_{3}	16.2	X	246.64140	31.82490	276.80520	3.63015	0.0891014	0.24518504	2.5281727	20	3 6.5	19.9
136822 1997 PW_{4}	14.2	X	313.10607	174.25099	155.42142	3.31774	0.1358989	0.12395197	3.9838267	20	6 25.0	19.3
136823 1997 QR	16.1	X	104.32522	112.42825	280.71691	4.38944	0.2734425	0.23263497	2.6182998	20	2 11.8	19.6
136824 Nonamikeiko	15.5	X	12.24813	49.30162	322.07077	3.96289	0.1733151	0.22033395	2.7148662	20	12 18.2	18.7
136825 Slawitschek	15.7	X	124.92315	273.78989	114.98356	4.78995	0.2583095	0.23556299	2.5965579	20	2 28.5	19.7
136826 1997 SM_{4}	15.6	X	77.95975	92.48971	216.79119	7.77249	0.2728841	0.22229305	2.6988917	20	12 25.9	20.3
136827 1997 SC_{23}	16.2	X	91.69084	225.68482	289.02034	1.35365	0.1173453	0.24296964	2.5435174	20	6 13.7	19.5
136828 1997 ST_{23}	16.5	X	78.11738	333.23230	12.04590	2.24016	0.0772260	0.22268284	2.6957413	20	—	—
136829 1997 SL_{32}	15.6	X	289.29237	33.99070	18.78615	3.67588	0.1179170	0.21234477	2.7825416	20	9 17.9	19.1
136830 1997 SM_{34}	15.7	X	280.83147	184.59017	358.95781	9.54500	0.0585634	0.22756852	2.6570186	20	—	—
136831 1997 TA_{1}	15.7	X	98.18274	199.48295	180.44417	3.34681	0.2625946	0.23248677	2.6194125	20	1 17.5	19.0
136832 1997 TH_{27}	15.7	X	336.06267	335.44162	45.44688	5.33105	0.1304250	0.21341607	2.7732220	20	10 24.2	18.7
136833 1997 UP	16.7	X	252.52538	193.31150	193.06222	6.69040	0.1413961	0.29223998	2.2489319	20	6 20.9	19.6
136834 1997 UD_{1}	15.7	X	123.87386	149.06445	269.46481	8.53805	0.0937261	0.23558743	2.5963783	20	3 9.8	19.5
136835 1997 UL_{19}	14.6	X	240.59095	36.86864	106.49765	3.45776	0.0856027	0.12633399	3.9335913	20	10 27.9	20.3
136836 1997 VO_{5}	14.9	X	97.63675	271.97215	64.66358	13.21522	0.2842897	0.22325658	2.6911209	20	—	—
136837 1997 VV_{7}	15.1	X	81.37655	290.85061	46.29168	12.86883	0.1610979	0.22031218	2.7150451	20	—	—
136838 1997 WG_{22}	14.8	X	62.90763	203.32157	50.15098	16.10070	0.1017136	0.20610703	2.8384038	20	9 21.3	19.0
136839 1997 WT_{22}	18.7	X	102.93023	74.76310	71.95186	8.15946	0.3058097	0.54433726	1.4855616	20	7 22.2	20.2
136840 1997 WN_{28}	15.0	X	25.76652	142.05112	234.85511	24.89058	0.1397365	0.21836956	2.7311233	20	—	—
136841 1997 WU_{50}	15.3	X	5.18498	304.14674	68.21643	11.28034	0.3742969	0.21664641	2.7455860	20	—	—
136842 1997 XN_{9}	15.1	X	44.18979	23.23774	80.45305	22.83566	0.0522172	0.22813112	2.6526484	20	1 21.5	18.7
136843 1997 YX_{5}	15.1	X	223.26467	156.18198	292.36990	7.26058	0.1802957	0.20071544	2.8890088	20	7 31.6	19.6
136844 1997 YA_{11}	16.1	X	3.72782	330.23492	118.25770	4.27458	0.2856640	0.21883623	2.7272392	20	—	—
136845 1997 YU_{14}	16.3	X	29.11468	162.33960	296.53759	1.21179	0.1872367	0.22268880	2.6956932	20	—	—
136846 1997 YV_{14}	16.6	X	229.26616	268.32172	301.28294	2.30009	0.0950609	0.30275141	2.1965711	20	—	—
136847 1998 BC_{4}	15.3	X	137.19974	21.74633	96.75462	3.23776	0.1968264	0.19171654	2.9787199	20	6 23.1	20.1
136848 1998 BF_{44}	15.3	X	299.94363	18.26948	98.90286	9.53022	0.2867837	0.21245132	2.7816112	20	12 16.9	17.6
136849 1998 CS_{1}	17.6	X	58.93971	97.67725	110.78042	7.79004	0.5782109	0.54107545	1.4915260	20	10 7.3	20.2
136850 1998 DX_{2}	15.1	X	327.45564	58.28285	39.77330	10.01648	0.2692532	0.21275605	2.7789545	20	—	—
136851 1998 DY_{8}	15.8	X	34.62583	244.81267	26.92880	1.97820	0.0727679	0.19494357	2.9457560	20	8 23.2	19.6
136852 1998 DQ_{18}	16.7	X	200.52251	333.07192	138.78817	3.83700	0.0616621	0.28558789	2.2837200	20	8 25.8	19.6
136853 1998 DM_{19}	17.3	X	192.86628	150.64176	12.26686	2.89419	0.1406222	0.29017408	2.2595935	20	10 17.6	20.6
136854 1998 DM_{28}	16.6	X	318.78894	304.86715	150.23121	5.99685	0.0631179	0.29659799	2.2268481	20	—	—
136855 1998 EE_{5}	15.0	X	178.37684	331.56046	329.01176	4.93843	0.1448315	0.17273008	3.1931849	20	1 1.2	20.2
136856 1998 FA_{6}	15.3	X	115.06043	155.58406	15.98260	11.37537	0.0751857	0.19015363	2.9950193	20	7 31.0	19.9
136857 1998 FD_{7}	15.6	X	96.65457	141.41010	15.42359	2.08697	0.1400585	0.18824134	3.0152688	20	6 24.5	20.0
136858 1998 FW_{10}	17.1	X	267.35211	149.71330	333.85162	2.34569	0.1079709	0.29324091	2.2438114	20	12 11.7	19.2
136859 1998 FS_{32}	16.3	X	289.00643	162.62039	353.04809	6.03662	0.0751091	0.29984542	2.2107405	20	—	—
136860 1998 FQ_{34}	15.6	X	330.07233	194.17405	347.11781	7.20158	0.1834507	0.21863280	2.7289307	20	—	—
136861 1998 FJ_{39}	16.6	X	66.53196	44.61065	158.53606	3.49087	0.1190973	0.27735130	2.3287127	20	7 19.0	19.4
136862 1998 FW_{40}	16.2	X	46.06897	182.48504	18.60851	5.80791	0.1646413	0.27411143	2.3470263	20	6 20.6	18.6
136863 1998 FA_{41}	16.4	X	128.46600	14.82509	178.13896	4.67193	0.0850914	0.28381251	2.2932339	20	9 18.5	19.3
136864 1998 FB_{41}	16.2	X	53.34518	72.90781	177.75762	4.70527	0.2888808	0.27837488	2.3230008	20	10 4.4	19.3
136865 1998 FE_{41}	16.2	X	13.04671	299.97043	171.87328	3.18556	0.0381377	0.30457967	2.1877723	20	—	—
136866 1998 FB_{46}	15.3	X	64.18107	110.83627	23.29584	5.88727	0.1518089	0.18102479	3.0948814	20	4 15.7	19.2
136867 1998 FW_{48}	15.4	X	21.20858	42.93965	208.80925	4.15604	0.1721452	0.18716051	3.0268663	20	7 14.8	18.8
136868 1998 FC_{49}	15.2	X	303.55173	213.46585	353.25426	8.11686	0.1542185	0.21729315	2.7401354	20	1 2.3	19.1
136869 1998 FB_{55}	16.7	X	75.32717	250.76314	12.29102	5.72184	0.1457689	0.28358794	2.2944444	20	10 26.4	19.9
136870 1998 FC_{55}	16.6	X	185.80338	139.58056	120.76392	0.65210	0.1353010	0.29688709	2.2254022	20	—	—
136871 1998 FO_{57}	16.0	X	249.49326	182.65240	353.55633	7.21908	0.1821881	0.29658731	2.2269015	20	—	—
136872 1998 FZ_{66}	16.3	X	356.67680	133.19042	132.43684	2.94812	0.2003107	0.27284566	2.3542795	20	6 20.2	17.6
136873 1998 FY_{68}	15.5	X	56.06669	298.88194	221.04724	3.97594	0.1751038	0.18118804	3.0930222	20	5 11.1	19.1
136874 1998 FH_{74}	15.6	X	332.36059	193.38893	197.53617	21.13955	0.8839238	0.30143399	2.2029665	20	5 26.6	17.7
136875 1998 FV_{76}	15.5	X	38.52396	83.63121	100.20471	3.62773	0.2043215	0.18114254	3.0935400	20	5 18.7	19.0
136876 1998 FM_{93}	15.1	X	176.88790	40.00428	110.13864	10.41862	0.0623562	0.19687587	2.9264497	20	9 11.1	19.6
136877 1998 FB_{102}	14.5	X	351.71168	201.42409	350.38571	18.93931	0.1292718	0.17703754	3.1411774	20	3 2.9	18.2
136878 1998 FD_{122}	16.8	X	108.83956	52.22116	128.61476	0.87343	0.1493711	0.27923246	2.3182420	20	8 15.3	20.1
136879 1998 FH_{124}	15.4	X	64.08037	117.56228	81.57686	3.70648	0.1532369	0.18741461	3.0241298	20	7 10.6	19.3
136880 1998 FR_{130}	16.7	X	17.41600	41.73485	184.25658	1.89605	0.1581364	0.27254484	2.3560115	20	5 31.9	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136881 1998 FL_{133}	16.8	X	244.72664	204.07229	27.34563	3.15997	0.1405865	0.30203174	2.2000590	20	—	—
136882 1998 FE_{134}	15.1	X	22.87354	65.67075	126.42978	1.72206	0.1363426	0.17976812	3.1092879	20	4 24.2	18.6
136883 1998 FB_{147}	16.0	X	97.41087	66.19580	210.29969	5.08371	0.1713365	0.28583134	2.2824231	20	12 8.5	19.5
136884 1998 FC_{148}	14.8	X	89.27144	305.65431	167.20640	13.93132	0.0313625	0.18171583	3.0870301	20	4 7.7	19.2
136885 1998 GO_{2}	15.9	X	47.44342	104.86905	100.63035	9.07110	0.1817427	0.27503323	2.3417792	20	7 3.3	18.1
136886 1998 GL_{12}	15.5	X	91.22699	110.01209	79.05952	2.53398	0.1114235	0.19006899	2.9959084	20	7 26.2	19.8
136887 1998 HQ_{9}	14.5	X	312.67155	192.28684	86.16466	14.22877	0.0842806	0.17925396	3.1152307	20	5 2.4	18.8
136888 1998 HR_{10}	16.9	X	190.41626	164.47505	69.80590	2.69297	0.1695626	0.29403886	2.2397501	20	—	—
136889 1998 HR_{17}	14.5	X	85.81225	138.73472	351.17970	10.74773	0.1704200	0.18214257	3.0822066	20	5 8.4	19.0
136890 1998 HO_{20}	14.8	X	89.38170	132.21559	26.33339	10.35015	0.2894146	0.18578243	3.0418161	20	7 8.3	19.7
136891 1998 HK_{23}	16.0	X	184.71843	210.45697	51.10268	3.84680	0.1536835	0.29610420	2.2293230	20	—	—
136892 1998 HD_{24}	16.6	X	295.25760	272.21090	187.87509	5.98640	0.0382703	0.28922637	2.2645268	20	12 27.1	19.1
136893 1998 HK_{25}	16.3	X	159.47771	23.62079	85.40924	3.63590	0.1271475	0.18837535	3.0138386	20	6 28.8	21.1
136894 1998 HC_{35}	16.9	X	191.21076	143.82596	66.44056	5.17312	0.1650212	0.29189978	2.2506789	20	12 14.7	20.0
136895 1998 HP_{38}	14.3	X	165.58546	58.83338	21.38036	19.17836	0.1116375	0.18476824	3.0529370	20	5 24.2	19.3
136896 1998 HO_{39}	14.2	X	86.54173	104.37979	26.87997	13.58421	0.1342215	0.18148698	3.0896247	20	5 7.2	18.6
136897 1998 HJ_{41}	18.5	X	224.07769	120.09426	211.86611	38.87606	0.1247708	0.61912191	1.3633853	20	1 10.3	20.9
136898 1998 HM_{43}	15.0	X	117.69555	337.59013	180.65420	10.52103	0.1228419	0.18788594	3.0190701	20	7 15.9	19.8
136899 1998 HH_{44}	16.2	X	350.32497	188.41913	35.19849	6.54926	0.1943617	0.26795336	2.3828493	20	3 25.2	18.1
136900 1998 HL_{49}	17.3	X	285.34276	239.24817	205.98428	10.98021	0.6363890	0.42681035	1.7470799	20	8 16.0	18.2
136901 1998 HT_{49}	16.1	X	337.55865	211.76541	105.50570	10.19707	0.2584036	0.27260940	2.3556395	20	7 30.5	17.1
136902 1998 HL_{55}	15.0	X	74.69773	128.63162	28.97827	12.28249	0.1714434	0.18265798	3.0764058	20	5 31.5	19.3
136903 1998 HR_{58}	17.4	X	333.20866	147.30715	110.80148	0.96530	0.2619186	0.26816889	2.3815724	20	3 29.4	19.5
136904 1998 HY_{59}	14.7	X	239.32974	229.39710	35.22881	16.51196	0.1063238	0.16928143	3.2364072	20	1 18.7	20.0
136905 1998 HF_{78}	14.5	X	71.60438	233.63443	218.40320	21.08189	0.1315541	0.17402906	3.1772755	20	2 24.3	19.1
136906 1998 HX_{83}	16.7	X	76.96635	193.35307	83.29054	3.85410	0.2498438	0.28202463	2.3029156	20	11 25.1	20.4
136907 1998 HS_{86}	16.4	X	2.63384	66.58470	224.50213	8.75472	0.2508626	0.27393726	2.3480210	20	8 24.3	18.2
136908 1998 HV_{92}	16.9	X	136.06016	216.42710	33.12548	3.86254	0.1251967	0.28771835	2.2724326	20	12 10.3	20.2
136909 1998 HJ_{93}	16.1	X	2.29829	34.36317	239.01721	5.80225	0.1006695	0.27369117	2.3494283	20	7 11.5	18.3
136910 1998 HN_{93}	16.6	X	126.15530	8.79259	244.54959	6.02228	0.0779737	0.28716479	2.2753520	20	12 5.7	19.8
136911 1998 HQ_{95}	16.6	X	97.88245	15.34653	192.59824	6.04329	0.0859309	0.27881945	2.3205308	20	8 31.3	19.6
136912 1998 HP_{96}	16.6	X	15.07520	180.21976	83.13167	3.67312	0.2078082	0.27319495	2.3522724	20	8 6.4	18.4
136913 1998 HB_{100}	16.6	X	205.60118	166.50714	65.59397	8.40940	0.1600617	0.29429811	2.2384345	20	—	—
136914 1998 HA_{103}	14.1	X	79.82945	275.07635	222.32775	9.13828	0.2804060	0.18028679	3.1033216	20	5 30.7	18.6
136915 1998 HM_{109}	14.3	X	81.84418	95.90512	56.05107	22.99959	0.1490791	0.18293824	3.0732630	20	5 29.9	18.7
136916 1998 HW_{115}	14.9	X	90.70459	13.09462	153.19024	10.14302	0.1072109	0.18437925	3.0572294	20	6 25.1	19.4
136917 1998 HB_{127}	16.5	X	55.80771	254.11412	357.60350	7.01580	0.1072175	0.27957672	2.3163386	20	9 11.9	19.1
136918 1998 HT_{133}	16.0	X	338.20434	203.70405	75.68190	5.52093	0.2227665	0.27179009	2.3603712	20	5 22.9	17.4
136919 1998 HZ_{138}	14.2	X	90.95340	54.14811	49.73456	16.81699	0.1928237	0.18033484	3.1027703	20	4 22.7	18.6
136920 1998 HN_{145}	14.5	X	22.52302	97.44887	56.00115	16.87011	0.0695237	0.17399339	3.1777097	20	3 11.5	18.9
136921 1998 HV_{147}	16.3	X	38.20690	225.76724	49.01260	25.64880	0.1925770	0.27741140	2.3283764	20	10 15.2	19.5
136922 Brianbauer	15.8	X	293.06215	95.89760	238.23851	5.16818	0.2536438	0.27001818	2.3706861	20	5 13.8	18.5
136923 1998 JH_{2}	16.2	X	298.22525	287.28670	51.10903	6.62564	0.4415051	0.31605455	2.1344927	20	4 26.1	18.8
136924 1998 KX_{5}	16.2	X	357.33799	52.26559	256.95428	3.57812	0.1912887	0.27614795	2.3354729	20	9 6.0	18.1
136925 1998 ME	15.5	X	99.37298	272.10641	224.37761	14.74953	0.1993694	0.18091087	3.0961805	20	6 8.9	20.3
136926 1998 MY	16.1	X	280.32371	91.14045	220.02388	7.82226	0.3435995	0.26299980	2.4126765	20	3 15.7	20.0
136927 1998 MA_{3}	16.5	X	327.06694	264.91468	100.91622	7.23059	0.1539602	0.27813384	2.3243427	20	10 5.4	18.5
136928 1998 MO_{15}	16.5	X	64.24369	17.45520	80.09311	5.34486	0.0995232	0.30420177	2.1895837	20	2 2.6	18.4
136929 1998 MA_{16}	16.3	X	231.01743	113.00647	236.17164	4.08416	0.2095662	0.26297618	2.4128210	20	4 1.7	20.1
136930 1998 OT_{3}	16.0	X	57.50254	63.06006	281.36794	5.75665	0.1718392	0.28108836	2.3080266	20	—	—
136931 1998 OE_{6}	15.8	X	17.38400	39.27720	294.41844	4.62978	0.2188685	0.27495821	2.3422051	20	11 27.2	18.4
136932 1998 OB_{7}	15.9	X	275.78446	10.34124	292.80070	6.13962	0.2769287	0.25896690	2.4376605	20	3 8.5	19.8
136933 1998 QX_{4}	15.6	X	298.77531	145.26358	240.57205	5.60697	0.1361056	0.26896994	2.3768415	20	8 29.0	18.0
136934 1998 QP_{5}	16.4	X	17.26040	124.90432	313.13759	18.59119	0.0974520	0.37530045	1.9034874	20	—	—
136935 1998 QK_{6}	13.8	X	291.31099	145.60900	205.96305	6.34315	0.1792474	0.12341788	3.9953116	20	6 15.5	19.3
136936 1998 QO_{20}	16.5	X	245.42595	153.43541	182.41361	3.41877	0.2218355	0.25765873	2.4459044	20	3 29.8	20.5
136937 1998 QT_{28}	16.4	X	299.01071	21.10545	265.76298	4.89847	0.0994058	0.25927816	2.4357091	20	4 9.1	19.6
136938 1998 QA_{37}	16.8	X	249.73923	118.39857	192.77644	6.57115	0.2840788	0.25588714	2.4571806	20	2 26.6	21.1
136939 1998 QV_{43}	15.9	X	272.22341	322.78796	62.91765	3.29999	0.2265227	0.26440595	2.4041150	20	7 2.3	18.8
136940 1998 QG_{45}	15.9	X	286.44408	132.95504	240.47846	3.68384	0.2069443	0.26495172	2.4008124	20	7 8.4	18.7
136941 1998 QT_{57}	17.1	X	187.24556	180.76658	210.25169	0.55673	0.1911789	0.25397263	2.4695137	20	4 18.4	21.2
136942 1998 QK_{70}	15.4	X	210.20721	161.13627	243.95996	12.80554	0.2215696	0.25844740	2.4409260	20	5 25.0	19.4
136943 1998 QH_{73}	16.4	X	289.35442	88.32016	207.45799	7.50707	0.2885029	0.25972548	2.4329117	20	3 12.0	19.9
136944 1998 QK_{81}	16.0	X	190.86606	119.84293	239.20167	11.97043	0.1836107	0.25292974	2.4762973	20	3 7.8	20.3
136945 1998 QD_{86}	15.4	X	217.70382	166.49309	244.16877	11.92568	0.2357621	0.25907684	2.4369708	20	6 6.8	19.5
136946 1998 QY_{99}	16.7	X	335.98323	265.83232	29.73948	2.76516	0.2087484	0.26433154	2.4045661	20	6 16.0	18.4
136947 1998 QS_{100}	16.0	X	293.37719	305.03756	70.45813	3.33539	0.2223292	0.26557948	2.3970276	20	7 22.2	18.3
136948 1998 QO_{106}	16.1	X	281.10878	315.44171	23.57033	6.28711	0.1322307	0.26134249	2.4228658	20	5 22.7	19.1
136949 1998 QE_{110}	16.2	X	183.17168	270.26748	109.00369	3.49597	0.2185331	0.25378831	2.4707092	20	4 2.6	20.3
136950 1998 RT_{1}	15.1	X	284.22110	261.55174	325.88280	13.19284	0.0214615	0.24584381	2.5236543	20	1 19.7	18.5
136951 1998 RQ_{3}	17.0	X	359.79534	92.48201	343.10679	17.74394	0.1218921	0.37213518	1.9142658	20	—	—
136952 1998 RY_{3}	15.8	X	142.13764	347.47825	3.84681	13.50630	0.2227654	0.24476637	2.5310548	20	1 28.9	19.9
136953 1998 RP_{4}	16.7	X	316.51590	253.86026	182.90189	22.33252	0.0735480	0.36643346	1.9340720	20	—	—
136954 1998 RX_{4}	16.7	X	344.42910	221.67850	184.78507	21.51412	0.0886461	0.36605113	1.9354185	20	—	—
136955 1998 RJ_{5}	15.7	X	2.58551	205.37826	41.34088	9.17106	0.1784016	0.26063424	2.4272531	20	5 30.6	17.7
136956 1998 RV_{6}	16.8	X	324.49870	295.75111	349.11379	4.79766	0.1723236	0.26248180	2.4158498	20	5 6.5	19.2
136957 1998 RQ_{8}	16.2	X	221.96744	19.83433	339.60527	3.13259	0.1297898	0.25810209	2.4431026	20	4 10.9	20.0
136958 1998 RN_{9}	16.6	X	320.57595	249.41724	356.01785	0.84382	0.1427756	0.25720762	2.4487634	20	3 9.9	19.5
136959 1998 RJ_{15}	16.2	X	11.17929	94.73795	179.15480	2.10727	0.1340572	0.26548639	2.3975879	20	8 1.8	18.3
136960 1998 RD_{27}	16.3	X	317.31349	122.88436	181.41249	7.20828	0.1087543	0.26264944	2.4148217	20	6 4.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
136961 1998 RP_{29}	16.3	X	305.99300	308.47802	85.90436	2.39971	0.1848155	0.26960432	2.3731115	20	9 26.1	18.2
136962 1998 RV_{30}	16.7	X	235.72384	130.99564	258.18051	1.68423	0.1976317	0.26018625	2.4300385	20	5 29.6	20.5
136963 1998 RR_{31}	15.9	X	214.33508	159.54345	230.22999	5.66953	0.1230173	0.25804727	2.4434486	20	5 14.3	19.4
136964 1998 RG_{36}	16.4	X	36.79769	91.19423	322.99480	6.13389	0.0914494	0.28391070	2.2927051	20	—	—
136965 1998 RA_{38}	16.0	X	122.29364	107.35483	286.46954	1.59803	0.1109088	0.24680499	2.5170978	20	2 10.5	19.5
136966 1998 RL_{39}	16.3	X	328.37882	235.81991	133.74772	3.41358	0.1861197	0.26996860	2.3709763	20	10 9.8	17.9
136967 1998 RQ_{39}	15.8	X	195.65437	302.01655	77.61396	3.22212	0.1951608	0.25442784	2.4665672	20	4 12.8	19.8
136968 1998 RY_{40}	16.1	X	115.86085	190.59949	156.68215	10.47574	0.2270862	0.24109697	2.5566712	20	—	—
136969 1998 RG_{41}	15.8	X	281.92795	340.74273	337.50546	6.25196	0.1384346	0.25935879	2.4352043	20	4 22.3	19.0
136970 1998 RS_{44}	16.1	X	21.68728	260.14404	145.46883	7.17153	0.1544650	0.28017180	2.3130575	20	—	—
136971 1998 RA_{48}	16.2	X	243.75622	53.76225	314.98063	4.25061	0.1166599	0.25899000	2.4375155	20	5 18.2	19.7
136972 1998 RA_{49}	16.9	X	137.13588	157.72426	181.74644	6.15501	0.2571948	0.24302804	2.5431099	20	1 8.2	20.9
136973 1998 RM_{50}	16.3	X	247.58659	339.20660	7.95594	3.26784	0.2023860	0.25779903	2.4450169	20	4 15.9	20.1
136974 1998 RO_{50}	16.4	X	308.79300	1.00805	25.39465	1.54784	0.1936565	0.26854827	2.3793289	20	9 16.9	18.3
136975 1998 RS_{51}	16.6	X	265.86510	307.14800	30.49603	5.44479	0.1646621	0.25939240	2.4349940	20	4 27.3	20.0
136976 1998 RA_{61}	15.0	X	121.42645	328.74087	347.77201	11.04712	0.1154512	0.19183306	2.9775136	20	—	—
136977 1998 RM_{61}	16.1	X	242.61176	111.57988	196.68582	6.71836	0.1991454	0.25308673	2.4752732	20	2 22.2	20.1
136978 1998 RH_{65}	16.3	X	151.12348	17.06099	348.39702	1.08454	0.1713471	0.24658966	2.5185629	20	2 14.1	20.0
136979 1998 RX_{76}	16.2	X	248.89893	289.59700	134.27844	5.58441	0.1811342	0.26377185	2.4079664	20	8 1.3	19.3
136980 1998 SR	16.3	X	94.20852	65.74055	24.67653	2.66830	0.1242551	0.24654816	2.5188456	20	3 22.7	19.3
136981 1998 SF_{3}	16.3	X	269.81128	278.75023	39.85610	6.99128	0.1535888	0.25726411	2.4484049	20	4 9.9	19.8
136982 1998 SK_{3}	15.8	X	117.00343	139.99340	68.49118	6.08266	0.1767217	0.26917896	2.3756109	20	10 2.8	19.5
136983 1998 SN_{4}	16.0	X	337.27429	281.42137	56.64827	2.15667	0.1980230	0.26737126	2.3863066	20	9 7.2	17.6
136984 1998 SW_{10}	16.0	X	119.81936	152.53805	183.23555	12.44269	0.2966940	0.23832659	2.5764460	20	—	—
136985 1998 SD_{12}	15.8	X	123.81139	174.91505	200.52445	18.72442	0.2147450	0.24246153	2.5470697	20	1 30.0	19.9
136986 1998 SX_{15}	17.0	X	210.81353	96.89547	178.62629	4.36719	0.1220002	0.24537557	2.5268638	20	—	—
136987 1998 SV_{20}	16.6	X	100.85063	181.07223	194.88016	3.75566	0.0961359	0.24083358	2.5585350	20	—	—
136988 1998 SO_{33}	16.7	X	54.04814	16.46546	6.58466	20.62309	0.1076232	0.37301246	1.9112632	20	—	—
136989 1998 SX_{33}	16.6	X	96.23686	298.74334	8.28799	21.37214	0.0967845	0.37035889	1.9203816	20	—	—
136990 1998 SW_{34}	16.7	X	209.83205	213.98887	14.21883	19.85866	0.0626080	0.37276569	1.9121066	20	—	—
136991 1998 SA_{36}	16.4	X	160.51956	316.44809	25.59974	3.60491	0.1859291	0.24442895	2.5333836	20	1 27.9	20.4
136992 1998 SL_{45}	15.5	X	358.61601	158.28183	17.11247	5.74426	0.0573069	0.24819166	2.5077135	20	2 16.0	18.5
136993 1998 ST_{49}	17.7	X	51.21622	48.10681	18.20474	24.48196	0.5952477	0.28100312	2.3084933	20	3 9.4	18.7
136994 1998 SX_{56}	15.6	X	283.95537	26.18934	24.10493	3.05157	0.2441617	0.26687488	2.3892646	20	8 24.7	17.9
136995 1998 SD_{57}	16.4	X	255.43060	183.05221	127.50482	2.21166	0.1896632	0.25528592	2.4610370	20	3 10.9	20.3
136996 1998 SJ_{63}	15.1	X	201.98681	97.22223	296.94611	3.51181	0.3249369	0.25434046	2.4671322	20	5 1.0	19.6
136997 1998 SP_{72}	16.0	X	241.16452	315.18905	70.37690	2.26908	0.1972905	0.25847438	2.4407561	20	5 30.4	19.8
136998 1998 SG_{75}	16.3	X	151.90526	244.54046	127.97540	3.49859	0.1701637	0.24617716	2.5213756	20	2 23.9	20.0
136999 1998 SG_{76}	16.4	X	210.57888	42.54150	299.62178	6.16018	0.1728829	0.25305939	2.4754514	20	3 6.9	20.5
137000 1998 SH_{78}	16.3	X	264.96575	56.08706	286.84658	3.56809	0.0961520	0.25905958	2.4370790	20	5 12.3	19.4
137001 1998 SA_{81}	16.6	X	253.33030	193.71679	204.48701	2.80590	0.2122410	0.26206918	2.4183848	20	6 27.7	20.1
137002 1998 SN_{83}	15.8	X	311.87903	297.02293	2.01259	5.85237	0.1040786	0.25992367	2.4316748	20	5 16.3	18.6
137003 1998 SU_{90}	16.7	X	213.31020	356.36766	6.90642	3.81756	0.1124385	0.25441538	2.4666478	20	4 8.7	20.4
137004 1998 SA_{92}	15.9	X	160.78905	110.52020	197.83002	12.87724	0.1944437	0.24226752	2.5484293	20	—	—
137005 1998 SN_{93}	16.8	X	220.27464	208.47802	167.26598	1.20283	0.1978845	0.25624849	2.4548701	20	4 28.2	20.8
137006 1998 SX_{94}	16.0	X	52.74386	226.38040	163.06044	10.67561	0.1375344	0.23648553	2.5898006	20	—	—
137007 1998 SC_{108}	15.7	X	299.18871	109.20732	331.08322	4.21313	0.1777744	0.27170260	2.3608779	20	11 22.5	17.6
137008 1998 SL_{108}	16.1	X	26.09551	208.37534	237.23867	3.41640	0.1590803	0.23770216	2.5809562	20	—	—
137009 1998 SS_{120}	16.2	X	242.01389	210.50164	130.73652	3.81843	0.1646511	0.21020990	2.8013494	20	4 10.8	20.7
137010 1998 ST_{121}	16.3	X	118.40989	52.53653	325.13731	2.92759	0.2735538	0.24272468	2.5452284	20	2 8.2	20.0
137011 1998 SF_{122}	14.1	X	279.98457	1.64177	354.36660	5.36512	0.3297180	0.12467979	3.9683078	20	5 16.7	20.0
137012 1998 SY_{125}	16.6	X	118.44235	320.50250	48.72353	5.30223	0.2633894	0.24243408	2.5472619	20	1 29.1	20.3
137013 1998 SF_{130}	16.2	X	108.28112	51.41184	14.66979	4.29532	0.2238790	0.24524714	2.5277459	20	3 23.0	19.5
137014 1998 SM_{130}	14.1	X	279.14034	121.95863	219.13882	1.66170	0.2821788	0.12353711	3.9927404	20	5 5.8	19.9
137015 1998 SW_{130}	14.1	X	288.06567	79.14667	260.06213	2.76213	0.3311701	0.12483490	3.9650200	20	5 6.1	19.8
137016 1998 SH_{131}	16.2	X	64.19507	65.73151	351.21495	4.78051	0.3236485	0.23838918	2.5759950	20	1 20.4	18.1
137017 1998 SW_{139}	15.1	X	130.64455	193.03957	222.19526	11.62670	0.1127506	0.24741270	2.5129743	20	3 15.9	18.8
137018 1998 SL_{160}	16.2	X	171.96983	238.45782	112.40114	4.47586	0.1405859	0.24711484	2.5149933	20	2 14.8	20.0
137019 1998 SE_{168}	15.4	X	160.18834	246.76535	48.93468	5.33487	0.2221307	0.24313571	2.5423590	20	—	—
137020 1998 TL	16.1	X	127.54881	40.57699	2.71726	6.46163	0.2400531	0.24530529	2.5273464	20	3 16.1	19.9
137021 1998 TV_{2}	16.0	X	71.93151	215.52259	229.14882	5.21910	0.1394937	0.24228752	2.5482891	20	2 10.4	19.0
137022 1998 TF_{3}	15.9	X	358.34120	41.79818	15.37934	21.83670	0.0294174	0.37032462	1.9205001	20	—	—
137023 1998 TB_{15}	16.5	X	153.46557	295.74659	30.63877	4.20595	0.1617238	0.24058208	2.5603177	20	—	—
137024 1998 TH_{15}	17.1	X	156.61941	263.75174	215.94486	0.59793	0.1371294	0.25601882	2.4563379	20	7 12.1	20.7
137025 1998 TT_{15}	16.0	X	37.88645	226.07201	247.27996	3.51478	0.0311362	0.24271323	2.5453084	20	1 19.8	19.2
137026 1998 TX_{16}	16.4	X	220.14970	287.69382	356.16027	4.65847	0.1603216	0.24511397	2.5286613	20	1 9.4	20.5
137027 1998 TH_{17}	16.8	X	351.51877	337.86101	293.84526	1.34734	0.1586518	0.25970830	2.4330190	20	6 17.1	18.8
137028 1998 TO_{17}	15.9	X	167.23959	273.96617	6.33147	3.25774	0.1692801	0.23713257	2.5850875	20	—	—
137029 1998 TB_{19}	17.0	X	152.72677	350.29754	8.45289	3.96625	0.2786330	0.24536846	2.5269126	20	2 17.1	21.2
137030 1998 TR_{19}	16.0	X	306.60465	99.16970	24.00840	20.64286	0.0820205	0.36877655	1.9258709	20	—	—
137031 1998 TJ_{22}	16.9	X	3.93541	41.38911	26.83087	1.01230	0.0922071	0.23224137	2.6212573	20	—	—
137032 1998 UO_{1}	16.6	X	307.91034	252.48007	358.45378	25.49793	0.7632665	0.48899517	1.5956330	20	—	—
137033 1998 UM_{6}	15.9	X	100.41047	250.74402	57.49865	5.18194	0.1681875	0.23218330	2.6216944	20	—	—
137034 1998 UD_{14}	16.1	X	356.63772	75.74299	177.92881	2.23479	0.1413865	0.25644246	2.4536320	20	5 30.6	18.4
137035 1998 UE_{17}	16.0	X	321.22102	128.98429	320.90209	6.59889	0.0645581	0.27609773	2.3357561	20	—	—
137036 1998 UC_{18}	16.3	X	205.57074	184.91674	261.06026	7.51758	0.1930610	0.25905428	2.4371123	20	7 13.1	20.2
137037 1998 UM_{19}	17.0	X	311.36423	23.17906	34.16119	22.06170	0.1018655	0.36197771	1.9499112	20	12 13.5	18.9
137038 1998 UA_{26}	16.4	X	97.68403	293.64052	78.04338	5.03934	0.2208015	0.23853909	2.5749157	20	—	—
137039 Lisiguang	15.5	X	63.22648	338.51173	61.22893	14.75194	0.1802410	0.23448555	2.6045058	20	—	—
137040 1998 UY_{35}	16.1	X	270.90579	5.21526	37.77804	3.06694	0.2054087	0.26337916	2.4103592	20	7 29.8	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137041 1998 UG_{43}	15.2	X	124.30410	79.13022	345.91050	6.19102	0.1413258	0.24692575	2.5162771	20	3 27.1	18.8
137042 1998 UT_{46}	16.0	X	40.63471	179.81474	13.45092	2.22058	0.1333295	0.25637201	2.4540814	20	5 23.5	18.4
137043 1998 UL_{49}	16.7	X	37.64525	230.42713	216.84247	4.14012	0.2658856	0.23570595	2.5955079	20	—	—
137044 1998 UC_{50}	16.6	X	62.15119	166.12216	335.10679	4.38332	0.4291572	0.28834815	2.2691225	20	6 4.9	19.2
137045 1998 VE	15.7	X	231.21623	100.61700	270.49272	1.11905	0.2286299	0.25521981	2.4614620	20	4 29.5	19.8
137046 1998 VE_{6}	15.7	X	74.35121	35.64265	27.34442	11.72553	0.2302660	0.23940730	2.5686866	20	2 6.9	18.6
137047 1998 VZ_{10}	15.9	X	103.14402	205.39590	221.99491	3.60428	0.2511805	0.24382552	2.5375617	20	3 20.9	19.5
137048 1998 VP_{13}	16.2	X	86.62948	131.20819	247.32682	3.60081	0.2492374	0.23802838	2.5785975	20	—	—
137049 1998 VB_{14}	15.5	X	36.88397	93.30872	351.28575	4.73123	0.2096061	0.23680113	2.5874991	20	—	—
137050 1998 VL_{15}	15.6	X	53.76676	212.40927	223.39636	11.85924	0.2643440	0.23800216	2.5787869	20	1 9.4	17.8
137051 1998 VA_{27}	15.9	X	114.80928	141.13588	236.97154	13.18642	0.1767841	0.24115286	2.5562762	20	1 18.9	19.6
137052 Tjelvar	16.9	X	202.05670	209.89820	64.29771	14.91230	0.8096150	0.70695535	1.2479812	20	—	—
137053 1998 VQ_{33}	16.8	X	7.78580	4.83014	59.23357	23.05649	0.0939757	0.36834446	1.9273768	20	—	—
137054 1998 VB_{34}	15.9	X	46.42139	59.78356	73.50048	7.48775	0.2197067	0.24097727	2.5575178	20	3 22.9	18.3
137055 1998 VN_{36}	15.6	X	149.70409	128.75524	240.39536	11.80224	0.1899398	0.24404508	2.5360395	20	2 13.8	19.8
137056 1998 VW_{43}	15.4	X	63.32706	316.22105	101.53819	10.20071	0.1951570	0.23347246	2.6120347	20	—	—
137057 1998 VK_{44}	16.6	X	284.13489	63.98557	64.69085	23.06405	0.0780290	0.36497457	1.9392225	20	—	—
137058 1998 VN_{45}	16.1	X	127.11192	347.03403	50.75161	9.93599	0.2937968	0.24424738	2.5346390	20	3 18.7	20.3
137059 1998 VA_{49}	15.9	X	230.98922	235.67626	167.04586	8.83149	0.2652098	0.25766147	2.4458870	20	6 7.2	20.1
137060 1998 VO_{50}	15.6	X	65.92673	282.44995	129.22832	3.53659	0.1870863	0.23744119	2.5828470	20	—	—
137061 1998 VR_{50}	16.3	X	218.81906	164.66995	250.53939	1.15991	0.1917986	0.25663129	2.4524283	20	6 16.6	20.2
137062 1998 WM	16.6	X	187.15882	172.54078	45.64125	22.51485	0.3152758	0.72741229	1.2244723	20	—	—
137063 1998 WK_{1}	14.7	X	197.33604	350.92692	336.03839	15.10684	0.1417833	0.24629948	2.5205408	20	2 11.1	18.6
137064 1998 WP_{5}	18.9	X	79.82629	97.56870	36.13302	19.50222	0.1950896	0.61192189	1.3740590	20	4 20.9	17.4
137065 1998 WH_{6}	15.9	X	163.73593	131.90966	240.18631	13.03798	0.1883669	0.24566001	2.5249129	20	2 29.2	20.3
137066 Gellért-hegy	17.3	X	341.57202	29.48250	30.56838	20.67405	0.0886280	0.36397565	1.9427690	20	—	—
137067 1998 WQ_{9}	15.6	X	99.70265	190.07391	214.11887	5.38227	0.2418259	0.24097125	2.5575604	20	2 13.8	18.9
137068 1998 WD_{13}	15.7	X	165.30936	105.55216	266.14485	3.34597	0.2136437	0.24627325	2.5207197	20	3 6.6	19.9
137069 1998 WQ_{15}	16.1	X	123.44383	331.45081	77.51320	9.52213	0.3576108	0.24449911	2.5328989	20	4 3.9	20.5
137070 1998 WE_{21}	15.8	X	24.66298	27.06657	36.96524	6.82906	0.2562702	0.23280117	2.6170536	20	—	—
137071 1998 WD_{29}	16.2	X	65.79336	207.96891	278.06638	0.33386	0.0289604	0.24717641	2.5145756	20	3 15.7	19.2
137072 1998 WM_{30}	16.3	X	192.19808	195.66663	57.09138	3.21684	0.0429212	0.23327298	2.6135236	20	—	—
137073 1998 WG_{33}	15.6	X	278.32480	261.87755	92.19758	3.39843	0.2061214	0.25844321	2.4409523	20	5 30.1	18.8
137074 1998 WJ_{34}	16.9	X	254.64058	3.31821	59.85111	1.62200	0.1378102	0.26200800	2.4187613	20	8 15.2	19.9
137075 1998 WK_{38}	16.8	X	96.14263	336.71406	73.34829	1.35412	0.2009379	0.24104024	2.5570723	20	2 13.2	19.8
137076 1998 XK_{3}	14.6	X	73.31816	134.65706	271.59150	18.26123	0.2521935	0.23351697	2.6117028	20	1 9.4	17.2
137077 1998 XE_{4}	16.3	X	189.42447	16.30242	100.53924	3.25922	0.1732859	0.25828881	2.4419250	20	8 9.9	20.0
137078 1998 XZ_{4}	16.2	X	18.93133	9.60498	324.45098	23.15800	0.6381832	0.36520987	1.9383895	20	—	—
137079 1998 XC_{5}	16.2	X	309.70877	114.25234	353.82622	5.49962	0.1696038	0.22661461	2.6644696	20	—	—
137080 1998 XD_{7}	15.6	X	294.48001	144.65098	230.75395	5.60889	0.1532186	0.26213200	2.4179985	20	8 1.9	18.2
137081 1998 XO_{7}	15.3	X	102.28288	27.38831	230.76524	9.48156	0.1293146	0.22216673	2.6999146	20	11 6.8	19.5
137082 Maurobachini	15.7	X	357.18095	220.25712	255.89361	13.92765	0.1109098	0.23324808	2.6137096	20	—	—
137083 1998 XZ_{13}	16.0	X	155.70234	272.68361	113.13256	3.24496	0.2202334	0.24597560	2.5227528	20	3 19.2	20.1
137084 1998 XS_{16}	16.4	X	217.03116	358.30424	272.99815	26.55674	0.4966239	0.73839031	1.2123055	20	—	—
137085 1998 XD_{18}	15.3	X	289.18055	332.75699	241.23229	13.07096	0.0507159	0.23943472	2.5684905	20	1 1.5	19.0
137086 1998 XX_{18}	16.1	X	88.38762	298.41202	70.31066	5.02563	0.1126523	0.23517170	2.5994373	20	—	—
137087 1998 XC_{19}	16.1	X	132.95835	251.19811	71.54041	2.78229	0.0856717	0.23499736	2.6007228	20	—	—
137088 1998 XT_{23}	16.5	X	220.21974	0.94011	153.78045	2.97498	0.1538687	0.26700017	2.3885171	20	11 2.9	19.7
137089 1998 XT_{43}	15.4	X	52.52665	320.95117	83.89611	13.17566	0.1575438	0.23271228	2.6177199	20	—	—
137090 1998 XZ_{57}	15.6	X	194.94169	334.43735	101.95434	9.64293	0.1904825	0.25366754	2.4714934	20	6 22.1	19.5
137091 1998 XU_{63}	15.0	X	7.84670	113.90963	306.19411	9.81477	0.1698283	0.22969071	2.6406272	20	—	—
137092 1998 XX_{68}	15.5	X	141.61107	80.48457	288.17398	9.93829	0.3059827	0.24278281	2.5448221	20	2 17.6	19.9
137093 1998 XW_{70}	15.9	X	90.93172	10.36759	69.34815	5.62321	0.1816767	0.24108658	2.5567447	20	3 16.0	19.1
137094 1998 XD_{84}	15.4	X	37.81047	196.46674	246.33776	14.33296	0.1248414	0.23443156	2.6049056	20	—	—
137095 1998 XX_{86}	15.1	X	38.96727	288.94886	141.52508	5.60975	0.2726342	0.23372027	2.6101880	20	—	—
137096 1998 XG_{97}	15.8	X	312.13332	129.64633	310.62201	4.05267	0.0914306	0.21987683	2.7186277	20	12 3.6	19.0
137097 1998 XP_{97}	15.5	X	49.31859	184.47571	242.25062	7.05704	0.1694606	0.23582265	2.5946516	20	—	—
137098 1998 YP_{2}	16.0	X	292.51384	163.89005	309.12084	8.78687	0.2016205	0.22049739	2.7135245	20	12 5.6	18.9
137099 1998 YW_{3}	18.2	X	2.40849	194.83069	94.27699	28.79416	0.4627459	0.85418843	1.1001036	20	—	—
137100 1998 YM_{7}	13.9	X	174.56778	28.53114	331.05519	13.78378	0.2237266	0.24459351	2.5322472	20	2 29.4	18.3
137101 1998 YN_{17}	16.9	X	348.70235	17.55120	120.81513	1.46478	0.0907764	0.23075069	2.6325343	20	—	—
137102 1998 YL_{19}	15.9	X	86.63312	280.85991	297.55483	6.36062	0.0990239	0.25336891	2.4734350	20	8 29.6	19.2
137103 1998 YP_{27}	14.9	X	32.01366	13.91151	33.40712	14.04537	0.2525724	0.23011711	2.6373642	20	—	—
137104 1998 YU_{30}	15.9	X	64.19390	346.23810	101.26112	6.66574	0.2200091	0.23675881	2.5878074	20	2 18.5	18.5
137105 1998 YK_{31}	15.5	X	122.15471	313.58230	89.53027	5.27777	0.2252735	0.24332296	2.5410546	20	3 11.3	19.3
137106 1999 AQ_{5}	15.8	X	71.49163	77.61153	73.72812	6.45068	0.1243724	0.24190696	2.5509610	20	5 13.9	18.8
137107 1999 AT_{6}	15.8	X	343.13194	313.44554	129.54388	3.30990	0.1972371	0.22521213	2.6755200	20	—	—
137108 1999 AN_{10}	17.9	X	1.77229	268.33295	314.37827	39.93231	0.5620660	0.55939513	1.4587816	20	8 19.4	18.1
137109 1999 AL_{11}	16.2	X	154.43027	159.33954	290.51779	6.31810	0.0383036	0.24689718	2.5164712	20	5 25.1	19.6
137110 1999 AN_{12}	15.0	X	71.64471	270.86960	117.77367	14.81840	0.2074824	0.23124060	2.6288148	20	—	—
137111 1999 AX_{18}	16.0	X	136.23587	79.45947	130.60619	4.91673	0.0110297	0.21344746	2.7729501	20	10 9.6	19.8
137112 1999 AF_{20}	16.1	X	71.61549	74.03988	323.63937	4.68110	0.2316217	0.23058941	2.6337617	20	—	—
137113 1999 AG_{20}	15.7	X	119.63601	259.68206	323.62212	6.99807	0.0266453	0.21058782	2.7979968	20	10 1.1	19.7
137114 1999 AT_{24}	15.6	X	71.97890	225.06852	311.00418	3.84554	0.1216970	0.24338028	2.5406556	20	6 17.1	18.8
137115 1999 AZ_{30}	15.8	X	11.01203	319.00953	129.81431	4.60308	0.1953800	0.22893355	2.6464463	20	—	—
137116 1999 BL_{2}	15.8	X	52.34071	87.15621	319.10346	4.45216	0.1976817	0.22783777	2.6549249	20	—	—
137117 1999 BK_{4}	15.8	X	306.04088	31.35699	108.32555	11.92251	0.1848389	0.22522080	2.6754513	20	—	—
137118 1999 BV_{4}	15.3	X	357.19875	91.97209	329.74259	11.64316	0.1717664	0.22207003	2.7006984	20	—	—
137119 1999 BU_{6}	14.8	X	345.01599	136.11037	10.10799	16.37316	0.2799099	0.22716813	2.6601397	20	—	—
137120 1999 BJ_{8}	18.1	X	30.43290	221.87565	339.59672	8.98904	0.5498210	0.37648645	1.8994877	20	8 20.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137121 1999 BJ_{11}	16.0	X	206.98933	34.53496	129.68615	3.39880	0.1243372	0.21320556	2.7750472	20	10 26.1	20.2
137122 1999 BX_{12}	16.0	X	141.65278	131.56491	295.29829	6.27107	0.2619151	0.24419478	2.5350029	20	4 25.4	20.4
137123 1999 BX_{21}	14.8	X	93.28712	304.98948	112.32283	13.02443	0.2148799	0.23865974	2.5740478	20	2 24.2	18.1
137124 1999 BH_{30}	15.7	X	315.99396	105.93733	333.46811	1.93220	0.0110586	0.22003088	2.7173587	20	12 9.5	19.2
137125 1999 CT_{3}	18.7	X	95.36437	268.23525	321.92547	34.23638	0.1318752	0.57831986	1.4267810	20	11 8.6	21.2
137126 1999 CF_{9}	18.0	X	333.08010	90.28165	157.07315	5.54736	0.6002789	0.41753441	1.7728604	20	—	—
137127 1999 CV_{22}	15.4	X	43.61761	121.57260	328.08147	11.83492	0.1553775	0.23260408	2.6185317	20	1 5.5	18.1
137128 1999 CQ_{31}	15.2	X	200.36074	106.69597	79.00509	6.02528	0.0984828	0.21602875	2.7508169	20	11 16.9	19.3
137129 1999 CE_{34}	16.0	X	14.46867	328.88455	130.79954	3.11766	0.1630706	0.22896574	2.6461983	20	—	—
137130 1999 CM_{38}	15.5	X	161.29207	53.79868	138.19608	4.84351	0.1351290	0.21053994	2.7984210	20	10 14.5	20.0
137131 1999 CN_{39}	15.8	X	57.13843	75.26202	114.12744	6.92036	0.0369985	0.24395785	2.5366440	20	6 1.8	19.0
137132 1999 CL_{43}	15.6	X	7.91034	330.63803	135.71465	14.41822	0.1448468	0.22816620	2.6523765	20	—	—
137133 1999 CE_{54}	15.3	X	222.50007	186.75598	337.96875	13.79909	0.1431113	0.21476862	2.7615665	20	11 3.1	19.7
137134 1999 CJ_{60}	16.3	X	28.38326	284.13854	161.39556	1.92031	0.1852984	0.22924708	2.6440328	20	—	—
137135 1999 CK_{63}	14.9	X	332.92810	185.54123	264.59975	12.55649	0.0945610	0.22251941	2.6970611	20	—	—
137136 1999 CL_{88}	15.2	X	14.90421	11.62974	63.63588	10.57768	0.1419958	0.22764906	2.6563919	20	—	—
137137 1999 CU_{95}	15.3	X	353.95215	131.03982	341.33261	11.78184	0.1346850	0.22723191	2.6596419	20	—	—
137138 1999 CC_{98}	16.1	X	287.18153	128.15280	1.17278	2.00146	0.2329996	0.22044599	2.7139463	20	12 14.7	18.7
137139 1999 CM_{98}	16.0	X	128.11812	120.83963	323.02502	4.11665	0.2818532	0.24271369	2.5453052	20	5 7.9	20.3
137140 1999 CH_{105}	15.3	X	309.14527	240.87945	256.31045	12.78158	0.1389231	0.22473398	2.6793136	20	—	—
137141 1999 CL_{112}	15.3	X	318.44863	276.06780	201.18961	11.91386	0.1631234	0.22314193	2.6920426	20	—	—
137142 1999 CZ_{113}	15.2	X	359.74482	127.81252	301.57267	12.07743	0.1319198	0.22286010	2.6943117	20	—	—
137143 1999 CT_{115}	15.7	X	192.75565	347.87691	193.33716	7.81897	0.1502086	0.21301619	2.7766916	20	10 29.7	20.0
137144 1999 CL_{117}	15.0	X	272.94002	308.07221	254.06122	10.97692	0.2260041	0.22401997	2.6850037	20	—	—
137145 1999 CA_{135}	15.9	X	239.92829	130.31966	342.56042	2.67601	0.0365805	0.21218286	2.7839569	20	10 8.9	19.6
137146 1999 CS_{145}	15.3	X	223.21010	315.21001	346.00610	6.01159	0.1687588	0.18318852	3.0704631	20	2 8.2	20.4
137147 1999 CW_{145}	15.3	X	353.74563	35.61786	296.70572	1.05756	0.0102139	0.20648046	2.8349805	20	9 9.5	19.0
137148 1999 CA_{151}	15.3	X	60.37305	53.91743	161.48851	2.58345	0.0393642	0.19908825	2.9047291	20	7 9.8	19.3
137149 1999 CB_{151}	15.0	X	9.75716	184.10608	155.26137	5.62749	0.0463723	0.20900655	2.8120915	20	10 16.2	18.7
137150 1999 CX_{155}	15.3	X	247.87814	343.79940	155.83055	15.87022	0.2238392	0.21617733	2.7495563	20	11 1.1	19.4
137151 1999 DO	15.3	X	316.27876	287.78345	165.77339	9.77800	0.1449354	0.22011495	2.7166667	20	12 28.8	18.3
137152 1999 DY_{4}	15.3	X	344.85596	289.28053	215.34963	12.93289	0.0578575	0.22960011	2.6413218	20	—	—
137153 1999 EC	15.4	X	161.07735	221.95541	4.59908	5.36712	0.0233334	0.21433109	2.7653234	20	11 26.3	19.4
137154 1999 EN	17.2	X	176.72484	147.72347	333.34825	1.06987	0.1293742	0.25138206	2.4864508	20	8 3.4	20.9
137155 1999 EA_{4}	17.7	X	119.85578	100.70834	348.67367	2.31450	0.1176562	0.28689934	2.2767553	20	4 18.5	20.7
137156 1999 EF_{4}	17.2	X	34.63842	93.97026	344.68390	2.21071	0.2485003	0.22883592	2.6471990	20	—	—
137157 1999 EW_{10}	16.3	X	325.83622	256.80451	178.49908	4.53486	0.0378383	0.21592762	2.7516757	20	12 16.9	20.0
137158 1999 FB	17.9	X	263.36333	3.03183	37.10836	12.89545	0.6068259	0.76902817	1.1798892	20	5 26.9	18.8
137159 1999 FO_{1}	15.6	X	199.43550	154.47242	304.46811	1.11121	0.0262519	0.20271998	2.8699324	20	8 1.6	19.5
137160 1999 FF_{32}	15.1	X	222.07924	133.19882	16.15527	13.08022	0.2292178	0.21116991	2.7928527	20	10 10.4	19.4
137161 1999 FK_{34}	14.4	X	321.78524	198.24654	29.55834	16.09864	0.0853440	0.18489240	3.0515700	20	3 12.9	18.6
137162 1999 FW_{35}	15.4	X	255.26190	64.34987	71.61783	2.71837	0.1728241	0.21642731	2.7474387	20	11 9.3	18.8
137163 1999 FE_{40}	15.3	X	322.69790	226.07074	303.73309	6.31344	0.2087236	0.22778737	2.6553165	20	—	—
137164 1999 FO_{51}	15.0	X	276.35365	50.07430	178.35255	16.71658	0.1956755	0.17965315	3.1106143	20	—	—
137165 Annis	15.3	X	198.03696	271.03560	349.43660	9.58467	0.2055311	0.17213204	3.2005767	20	—	—
137166 Netabahcall	15.2	X	266.23185	99.86771	158.53974	11.09880	0.0765621	0.18071049	3.0984689	20	2 4.7	19.8
137167 1999 GC_{3}	15.7	X	215.43266	65.60685	217.57387	0.43448	0.1936861	0.17680772	3.1438989	20	1 11.5	21.1
137168 1999 GK_{3}	15.5	X	284.65333	259.26406	14.15739	5.28136	0.1100625	0.18627262	3.0364772	20	3 12.1	19.7
137169 1999 GY_{9}	15.7	X	14.87357	10.41930	342.09823	3.05331	0.0999740	0.21496798	2.7598588	20	11 14.4	19.2
137170 1999 HF_{1}	14.6	X	282.05750	253.40622	155.86661	25.65992	0.4624379	1.32936614	0.8191680	20	—	—
137171 1999 HM_{7}	14.7	X	269.16416	257.15005	35.64552	16.56251	0.0797370	0.18407550	3.0605916	20	3 26.9	19.2
137172 1999 HJ_{9}	15.5	X	20.67741	219.53208	20.45655	4.88673	0.1599142	0.19273161	2.9682518	20	6 27.2	18.9
137173 1999 JY_{4}	16.6	X	132.85348	248.73675	29.64499	8.92945	0.2448778	0.30189564	2.2007202	20	—	—
137174 1999 JH_{5}	15.5	X	31.10722	115.16545	51.90765	31.08806	0.2834324	0.23331154	2.6132356	20	4 25.6	17.8
137175 1999 JA_{11}	18.3	X	62.47147	328.33712	116.24684	16.43576	0.3413052	0.69581287	1.2612691	20	—	—
137176 1999 JZ_{11}	16.1	X	116.36621	204.76704	124.28671	4.38531	0.2632345	0.30552579	2.1832534	20	—	—
137177 1999 JK_{12}	15.9	X	237.30926	113.32529	87.39218	7.81372	0.2548134	0.21665161	2.7455421	20	12 25.5	19.8
137178 1999 JT_{15}	16.8	X	195.55948	137.54963	144.30007	1.43380	0.1450544	0.31133157	2.1560257	20	—	—
137179 1999 JQ_{16}	15.4	X	163.39343	329.47908	59.19987	11.77533	0.0541030	0.18145929	3.0899390	20	3 28.6	20.1
137180 1999 JF_{20}	15.4	X	66.26358	231.07926	24.51216	8.33278	0.2094813	0.19952796	2.9004599	20	10 4.3	19.6
137181 1999 JA_{30}	14.6	X	261.62997	59.23839	222.47872	26.13001	0.1637967	0.18011077	3.1053431	20	2 10.8	20.0
137182 1999 JG_{40}	14.9	X	331.45104	61.64855	150.85828	1.72152	0.2106976	0.18157501	3.0886260	20	2 12.4	18.5
137183 1999 JX_{49}	14.3	X	166.71138	240.50889	66.88717	14.29936	0.1607022	0.16939864	3.2349142	20	—	—
137184 1999 JG_{63}	14.0	X	25.26339	248.13119	50.24659	8.01933	0.5580360	0.19373971	2.9579463	20	11 25.4	18.2
137185 1999 JT_{70}	15.3	X	333.31977	112.34693	61.61043	13.37093	0.2200679	0.22660940	2.6645105	20	—	—
137186 1999 JT_{72}	15.8	X	29.30538	68.19111	147.16014	3.69213	0.1459721	0.23671897	2.5880977	20	6 7.6	18.5
137187 1999 JC_{74}	14.8	X	246.40341	74.96563	186.16075	9.59072	0.1819887	0.17514300	3.1637891	20	1 10.9	20.2
137188 1999 JE_{85}	15.1	X	213.31727	61.44622	97.44854	17.79708	0.1433359	0.21017745	2.8016377	20	10 30.6	19.7
137189 1999 JU_{87}	14.8	X	1.79289	48.57660	101.14622	12.85455	0.2283556	0.22879592	2.6475075	20	—	—
137190 1999 JC_{88}	14.6	X	243.81797	78.98105	109.43033	13.58788	0.1374399	0.21627218	2.7487524	20	—	—
137191 1999 JG_{88}	14.5	X	99.26042	27.55870	118.78142	11.35736	0.0620526	0.19157415	2.9801956	20	6 5.5	18.8
137192 1999 JL_{89}	15.4	X	259.99723	123.22093	91.02504	9.13915	0.1075393	0.22008777	2.7168903	20	—	—
137193 1999 JB_{96}	14.6	X	230.69274	141.87309	126.46241	15.55140	0.2372831	0.17254135	3.1955130	20	1 5.9	20.2
137194 1999 JJ_{103}	16.6	X	138.27257	181.51140	122.89474	4.91489	0.1936285	0.30633151	2.1794233	20	—	—
137195 1999 JJ_{114}	15.7	X	322.27889	165.18660	56.84674	9.85156	0.0909566	0.22788112	2.6545882	20	2 26.9	19.2
137196 1999 JS_{129}	15.0	X	250.27628	56.08192	108.35536	10.19558	0.2083754	0.21317191	2.7753392	20	12 3.9	18.8
137197 1999 KA_{1}	17.3	X	290.57682	97.86874	159.09405	2.46024	0.1575634	0.32125798	2.1113818	20	2 2.9	19.8
137198 1999 KR_{2}	16.5	X	235.59494	83.43300	169.00319	1.62609	0.1586179	0.26668765	2.3903827	20	—	—
137199 1999 KX_{4}	16.9	X	35.46289	76.42718	104.92416	16.57035	0.2925688	0.56021247	1.4573623	20	1 4.3*	15.1
137200 1999 KX_{12}	15.8	X	351.19662	109.70560	133.64931	3.78718	0.1603120	0.23313284	2.6145708	20	5 3.7	18.3

* The additional oppositions: **137199** 3 30.9, $V = 17.0$, 5 12.6, $V = 16.7$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137201 1999 KF_{13}	17.3	X	165.16737	149.12084	132.36136	3.76498	0.2621404	0.30554030	2.1831842	20	—	—
137202 1999 KJ_{13}	14.6	X	192.09708	91.72573	238.75695	19.52701	0.2760080	0.17364954	3.1819032	20	2 8.9	20.7
137203 1999 LX	16.6	X	132.84439	227.04862	128.42340	4.04467	0.1650711	0.30989100	2.1627023	20	1 1.7	19.2
137204 1999 LX_{2}	14.9	X	150.39735	247.00814	112.39115	9.38193	0.0648704	0.17488010	3.1669591	20	2 5.5	19.6
137205 1999 LN_{11}	15.5	X	232.53987	95.62655	177.97894	14.55741	0.2171918	0.17290257	3.1910608	20	1 12.1	21.1
137206 1999 LJ_{25}	16.6	X	103.88315	201.43374	102.17647	7.05058	0.2809715	0.29876846	2.2160500	20	—	—
137207 1999 LW_{31}	14.6	X	134.37230	356.84714	63.03851	12.32266	0.1122836	0.18216851	3.0819140	20	4 8.6	19.4
137208 1999 MC_{2}	16.2	X	47.90365	199.92794	116.76534	7.77531	0.2866319	0.28989073	2.2610656	20	12 23.4	19.7
137209 1999 NU_{1}	15.7	X	22.84195	20.62331	285.75061	20.46726	0.1483647	0.28517484	2.2859247	20	10 6.2	18.9
137210 1999 NO_{2}	16.2	X	70.93761	40.35884	276.41020	7.03098	0.1821970	0.29233828	2.2484277	20	—	—
137211 1999 NM_{4}	16.2	X	70.64762	209.14706	105.34946	8.44863	0.1674818	0.29403755	2.2397567	20	12 31.8	19.4
137212 1999 NB_{6}	16.7	X	71.70029	170.83168	131.11709	7.50213	0.2104464	0.29286593	2.2457262	20	12 20.5	20.2
137213 1999 NX_{10}	16.4	X	127.57346	66.17472	291.12384	6.10519	0.1441232	0.30448936	2.1882048	20	—	—
137214 1999 NF_{33}	16.5	X	89.71955	201.82556	113.53794	9.48555	0.2372425	0.29628337	2.2284242	20	—	—
137215 1999 NU_{36}	16.5	X	119.11417	287.09847	55.97297	3.98051	0.1651119	0.30275669	2.1965456	20	—	—
137216 1999 NV_{62}	16.2	X	76.23570	86.83354	239.26584	7.68907	0.2185204	0.29566849	2.2315127	20	—	—
137217 Racah	16.2	X	345.00365	159.82131	211.18058	6.27973	0.1259301	0.28551540	2.2841066	20	11 16.0	18.3
137218 1999 OQ_{5}	16.4	X	54.11141	187.29789	141.84178	10.98764	0.1769649	0.29241134	2.2480532	20	—	—
137219 1999 PX_{2}	16.8	X	177.30751	90.37231	276.68740	2.00739	0.1796782	0.31311438	2.1478340	20	3 5.4	20.0
137220 1999 PF_{8}	16.6	X	194.40491	192.35543	102.12202	2.85071	0.1723124	0.30794855	2.1717872	20	—	—
137221 1999 RX	16.1	X	322.15476	99.25208	269.79204	3.57850	0.1650478	0.28396927	2.2923899	20	9 23.0	17.8
137222 1999 RB_{1}	16.0	X	131.87506	54.21201	204.93079	4.79591	0.1650193	0.29361452	2.2419075	20	12 19.0	19.4
137223 1999 RM_{7}	16.4	X	289.93542	61.79732	7.22214	8.33513	0.0658901	0.28434385	2.2903762	20	10 29.9	18.8
137224 1999 RW_{9}	16.3	X	264.21546	214.44107	179.52905	4.75338	0.1607575	0.27596203	2.3365218	20	7 13.4	19.2
137225 1999 RB_{15}	17.1	X	40.72709	237.11163	155.56193	1.97697	0.2037456	0.29494717	2.2351494	20	—	—
137226 1999 RA_{19}	17.0	X	75.06336	154.28347	175.82058	4.35020	0.1717759	0.29414611	2.2392056	20	—	—
137227 1999 RR_{19}	16.8	X	338.64490	174.65789	164.23136	4.96870	0.2142668	0.28160806	2.3051861	20	9 16.3	18.1
137228 1999 RT_{20}	16.4	X	259.75131	27.24350	326.70132	4.98894	0.1320233	0.27212229	2.3584498	20	5 14.7	19.6
137229 1999 RD_{21}	16.5	X	304.19308	86.57165	341.11865	5.50047	0.2119914	0.28477000	2.2880906	20	11 16.8	18.1
137230 1999 RG_{22}	15.4	X	240.27660	75.23640	355.42952	22.38291	0.2970680	0.27519050	2.3408869	20	7 27.4	19.5
137231 1999 RQ_{22}	16.1	X	350.89002	202.00597	179.30154	23.03153	0.2225715	0.28641175	2.2793385	20	12 26.8	19.0
137232 1999 RZ_{23}	16.3	X	102.72816	147.74613	142.75629	6.67180	0.1358771	0.29219944	2.2491399	20	12 30.5	19.6
137233 1999 RE_{24}	15.8	X	34.51097	17.06423	47.04343	4.41012	0.1186129	0.29743649	2.2226609	20	—	—
137234 1999 RT_{24}	16.0	X	57.42536	87.77976	328.72122	5.38928	0.1370379	0.29902451	2.2147847	20	—	—
137235 1999 RY_{24}	16.4	X	279.46630	164.81799	200.56769	5.43545	0.1120383	0.27535131	2.3399754	20	7 2.4	19.1
137236 1999 RA_{25}	16.1	X	277.09577	46.40317	336.21255	6.40552	0.1053729	0.27676338	2.3320094	20	7 28.1	18.8
137237 1999 RG_{26}	16.6	X	327.17143	354.12889	24.76895	4.41452	0.2721660	0.28261581	2.2997030	20	10 30.1	17.2
137238 1999 RN_{29}	15.6	X	275.21913	254.59309	185.20937	21.68071	0.3558219	0.28243092	2.3007065	20	8 30.9	18.2
137239 1999 RB_{31}	15.7	X	61.93712	312.96520	349.69948	24.85745	0.1650914	0.28725864	2.2748564	20	11 29.8	19.6
137240 1999 RD_{35}	15.4	X	268.55013	199.67054	204.92958	24.36396	0.2159628	0.27587035	2.3370394	20	7 20.2	19.0
137241 1999 RV_{36}	16.5	X	312.22333	338.63432	18.08559	6.50195	0.1427541	0.27964834	2.3159431	20	8 17.1	18.6
137242 1999 RY_{53}	17.0	X	69.63927	178.87235	151.84310	6.12054	0.2092646	0.29416337	2.2391180	20	—	—
137243 1999 RP_{59}	16.4	X	288.60454	16.09953	355.90502	6.53625	0.1355824	0.27924271	2.3181853	20	7 26.7	18.9
137244 1999 RY_{59}	16.6	X	300.32286	16.75072	301.09531	5.75190	0.0803731	0.32360100	2.1011779	20	5 30.2	18.8
137245 1999 RW_{62}	16.3	X	342.27516	176.17382	189.71316	5.47322	0.1340657	0.28558502	2.2837353	20	11 4.4	18.3
137246 1999 RN_{63}	17.0	X	114.01564	125.74535	186.41161	4.73559	0.1604291	0.29753932	2.2221488	20	—	—
137247 1999 RG_{66}	16.7	X	247.36598	184.64684	151.44449	2.44481	0.0816392	0.31736677	2.1286050	20	4 11.2	19.1
137248 1999 RD_{74}	16.3	X	11.38775	234.38561	150.56429	6.29781	0.1497784	0.29052447	2.2577763	20	—	—
137249 1999 RS_{74}	16.5	X	293.27160	325.75638	149.61599	8.31593	0.0278862	0.29576115	2.2310466	20	—	—
137250 1999 RO_{75}	17.0	X	68.86113	123.55652	189.74395	5.94178	0.1581740	0.29108340	2.2548852	20	12 26.8	20.4
137251 1999 RC_{76}	16.7	X	251.24639	220.38122	196.90928	3.98916	0.2229968	0.27662431	2.3327909	20	7 20.0	19.8
137252 1999 RG_{82}	16.3	X	87.92508	333.07045	307.73328	4.50558	0.1502633	0.28977140	2.2616863	20	12 3.6	19.7
137253 1999 RO_{86}	16.1	X	77.14715	179.19461	86.34262	3.14962	0.2654083	0.28795596	2.2711823	20	11 13.9	19.7
137254 1999 RL_{87}	16.5	X	214.00621	47.90858	274.13394	0.47020	0.1965343	0.26321159	2.4113822	20	2 15.7	20.4
137255 1999 RO_{87}	16.7	X	323.84647	11.48451	359.64988	4.33446	0.1471565	0.28227259	2.3015668	20	10 2.4	18.4
137256 1999 RS_{87}	16.7	X	326.55578	44.11902	11.47040	3.49876	0.1953022	0.28677650	2.2774054	20	12 26.7	18.4
137257 1999 RQ_{88}	16.3	X	289.57213	208.88350	187.12945	5.78987	0.1733162	0.27978624	2.3151820	20	8 24.9	18.5
137258 1999 RP_{95}	16.5	X	289.78426	190.69792	157.77718	7.29171	0.2098939	0.27529578	2.3402900	20	6 7.8	19.3
137259 1999 RZ_{96}	16.5	X	2.20946	84.86575	329.93717	7.06161	0.1128915	0.29234637	2.2483862	20	—	—
137260 1999 RM_{101}	16.8	X	111.19947	107.85612	198.17851	8.49842	0.1846724	0.29704440	2.2246164	20	—	—
137261 1999 RS_{109}	16.4	X	15.50571	35.24738	301.58476	4.76468	0.1916042	0.28542420	2.2845931	20	11 26.9	19.0
137262 1999 RF_{120}	16.6	X	72.42977	341.34123	325.13408	5.07723	0.2079233	0.29245400	2.2478345	20	12 26.5	20.2
137263 1999 RQ_{120}	16.5	X	211.84345	39.88936	289.76513	3.69575	0.1742647	0.31281158	2.1492198	20	2 17.9	19.8
137264 1999 RT_{121}	15.9	X	56.04082	122.94510	259.04973	7.42697	0.2151864	0.29701927	2.2247419	20	—	—
137265 1999 RO_{125}	16.6	X	332.27006	46.46212	302.74153	3.35237	0.1752560	0.28233104	2.3012491	20	9 13.8	18.2
137266 1999 RU_{125}	16.2	X	26.39527	158.97898	275.32944	3.01484	0.1539277	0.29901379	2.2148377	20	—	—
137267 1999 RS_{131}	16.0	X	304.26380	146.08857	240.23536	5.29116	0.1164383	0.28301614	2.2975338	20	9 14.9	18.3
137268 1999 RO_{139}	16.5	X	39.25155	224.50032	136.22628	3.86275	0.1983291	0.29260119	2.2470806	20	—	—
137269 1999 RH_{141}	16.1	X	193.85901	92.82814	319.82300	5.88485	0.1015704	0.27143543	2.3624268	20	5 21.7	19.5
137270 1999 RW_{143}	15.9	X	89.37130	78.67441	227.09273	2.28391	0.2055506	0.29309088	2.2445770	20	—	—
137271 1999 RC_{147}	16.6	X	61.09635	61.97107	252.27028	4.47527	0.1810035	0.29083144	2.2561873	20	12 22.5	19.8
137272 1999 RU_{154}	16.6	X	22.34608	94.31460	281.14301	1.93818	0.2316861	0.29080336	2.2563325	20	—	—
137273 1999 RX_{154}	16.4	X	298.90933	77.37485	325.48657	5.42434	0.1626595	0.28293767	2.2979586	20	9 25.9	18.4
137274 1999 RR_{156}	16.3	X	11.05538	66.12156	329.91403	6.74361	0.1471380	0.29189246	2.2507165	20	—	—
137275 1999 RP_{160}	16.1	X	45.04234	166.96413	143.73804	7.03844	0.1373777	0.28788944	2.2715322	20	11 25.9	19.1
137276 1999 RT_{162}	16.5	X	25.35807	51.72340	276.67693	3.76526	0.1998910	0.28690651	2.2767173	20	12 1.5	19.1
137277 1999 RT_{164}	16.0	X	16.43030	47.21584	325.63915	7.43242	0.1612141	0.28989394	2.2610489	20	—	—
137278 1999 RU_{165}	16.3	X	277.91549	63.57224	349.80446	6.39875	0.1552149	0.28109716	2.3079784	20	9 5.3	18.6
137279 1999 RP_{168}	16.4	X	302.29782	347.15145	349.35717	6.41648	0.1357915	0.27649390	2.3335244	20	6 23.2	18.9
137280 1999 RQ_{178}	16.4	X	54.52214	277.09299	14.89292	6.92297	0.1100141	0.28648604	2.2789444	20	11 4.8	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137281 1999 RL_{181}	16.4	X	9.04026	196.83520	162.52735	7.29395	0.1644203	0.28738376	2.2741960	20	12 16.4	19.0
137282 1999 RJ_{182}	16.4	X	332.43519	317.00300	351.86132	7.01129	0.1242618	0.27710139	2.3301126	20	7 11.3	18.6
137283 1999 RQ_{182}	16.5	X	263.40026	23.17622	323.55675	2.13221	0.2447711	0.27233281	2.3572342	20	4 25.8	20.0
137284 1999 RZ_{182}	17.3	X	61.59520	129.53054	167.89558	6.43101	0.2847214	0.28939969	2.2636225	20	12 11.7	21.0
137285 1999 RY_{184}	16.8	X	56.36181	296.86108	35.55627	5.73650	0.1758441	0.29124055	2.2540739	20	—	—
137286 1999 RR_{186}	16.7	X	150.87051	110.81615	169.16719	3.04414	0.2180751	0.29901714	2.2148212	20	—	—
137287 1999 RM_{188}	16.7	X	160.49339	328.21042	67.73822	4.36093	0.1625339	0.31119205	2.1566701	20	3 29.2	19.8
137288 1999 RX_{190}	16.0	X	131.54471	25.82965	258.30628	5.03751	0.1918939	0.29623270	2.2286783	20	—	—
137289 1999 RP_{193}	16.5	X	17.36598	135.65149	141.01174	6.33493	0.0983862	0.27548992	2.3391904	20	8 15.6	18.8
137290 1999 RK_{202}	16.3	X	249.75448	135.84659	297.64539	4.45210	0.1494532	0.27779536	2.3262304	20	8 20.9	19.1
137291 1999 RD_{206}	16.3	X	52.21226	42.04630	276.33034	5.21918	0.2544954	0.28910497	2.2651607	20	12 25.9	19.8
137292 1999 RL_{206}	16.3	X	30.22480	159.54533	199.00798	23.85896	0.1680641	0.28939918	2.2636252	20	—	—
137293 1999 RL_{208}	15.9	X	319.38588	75.62943	300.69009	6.48830	0.1277878	0.28120350	2.3073965	20	9 27.4	18.2
137294 1999 RE_{215}	6.5	X	76.19193	116.40448	149.29865	1.35263	0.1095394	0.00324032	45.2283231	20	9 17.7	23.0
137295 1999 RB_{216}	7.4	X	6.97418	208.14719	175.67867	12.68056	0.2930744	0.00300418	47.5684091	20	11 2.4	22.7
137296 1999 RL_{219}	16.3	X	36.29506	212.90413	145.45441	5.96408	0.2134710	0.29220098	2.2491320	20	—	—
137297 1999 RC_{226}	16.6	X	331.12219	91.16048	247.17474	5.94518	0.1433611	0.28124506	2.3071692	20	8 21.3	18.6
137298 1999 RF_{226}	16.3	X	313.86835	153.82719	249.39253	5.80575	0.0969254	0.28533674	2.2850599	20	11 2.6	18.5
137299 1999 RK_{229}	16.5	X	48.45083	272.05338	114.81208	6.69267	0.1767802	0.29631149	2.2282832	20	—	—
137300 1999 RC_{233}	16.1	X	328.80067	164.08522	238.32794	4.66699	0.1528051	0.28690240	2.2767391	20	12 5.6	18.0
137301 1999 RP_{239}	16.2	X	51.00381	17.99888	276.43523	9.56021	0.1731522	0.28495336	2.2871090	20	11 11.9	19.3
137302 1999 RB_{254}	17.0	X	337.77218	177.90491	166.98348	5.90486	0.1854355	0.28350017	2.2949180	20	9 24.0	18.4
137303 1999 SX_{9}	16.6	X	44.62241	326.77678	33.84471	5.20229	0.1535770	0.29124142	2.2540694	20	—	—
137304 1999 SK_{12}	16.5	X	56.67189	348.80112	330.95283	4.71028	0.2808479	0.29110321	2.2547828	20	—	—
137305 1999 SO_{14}	16.9	X	265.11923	184.26420	159.19919	1.54343	0.1992167	0.27161474	2.3613870	20	4 30.3	20.3
137306 1999 SU_{16}	16.2	X	334.77210	135.79808	228.42653	6.53148	0.1510659	0.28268845	2.2993090	20	10 14.7	18.1
137307 1999 SZ_{27}	15.3	X	317.27393	135.83846	248.27805	24.54844	0.2057526	0.28183073	2.3039718	20	9 24.7	17.8
137308 1999 TF_{2}	16.3	X	352.69443	173.31956	216.75792	5.64640	0.2578143	0.28648544	2.2789476	20	—	—
137309 1999 TM_{5}	15.9	X	215.01418	71.37810	27.51009	5.90111	0.1896964	0.27469321	2.3437112	20	8 13.3	19.4
137310 1999 TF_{9}	16.3	X	357.88476	345.22663	21.67115	5.94376	0.1856955	0.28479471	2.2879583	20	12 10.6	18.5
137311 1999 TX_{9}	13.8	X	309.70566	13.44694	49.91149	26.36250	0.2750871	0.27976236	2.3153138	20	11 20.0	14.6
137312 1999 TK_{10}	14.2	X	207.01751	218.87712	180.55147	7.79003	0.1722561	0.12476565	3.9664868	20	5 19.9	20.6
137313 1999 TR_{12}	17.2	X	264.13446	356.95692	2.64246	1.46452	0.1977135	0.27131788	2.3631091	20	5 20.3	20.6
137314 1999 TQ_{14}	17.3	X	119.45967	354.03879	14.74582	1.25399	0.1205718	0.30139842	2.2031398	20	—	—
137315 1999 TB_{20}	16.8	X	264.07882	329.01819	59.47206	5.62926	0.1486572	0.27416693	2.3467095	20	7 8.5	19.8
137316 1999 TQ_{20}	16.6	X	281.63415	312.97078	24.03179	2.72745	0.2033192	0.27255418	2.3559577	20	5 9.8	19.7
137317 1999 TY_{21}	16.5	X	217.14417	53.77926	24.61736	4.94041	0.1333811	0.27432047	2.3458338	20	7 23.1	19.8
137318 1999 TG_{22}	16.7	X	276.22858	328.34537	173.43364	5.40363	0.0968197	0.29149043	2.2527855	20	—	—
137319 1999 TV_{23}	16.7	X	258.65297	331.20262	87.50573	1.36184	0.1097432	0.23024517	2.6363862	20	8 15.4	20.2
137320 1999 TZ_{28}	16.2	X	109.69847	96.23953	206.72631	3.57051	0.1871570	0.29452766	2.2372713	20	—	—
137321 1999 TN_{29}	16.7	X	257.17652	174.51432	198.46359	4.75152	0.2346239	0.27300035	2.3533901	20	5 26.9	20.1
137322 1999 TR_{32}	16.7	X	317.59116	106.42631	204.23828	2.30358	0.2564025	0.27582437	2.3372991	20	5 20.6	18.8
137323 1999 TF_{35}	15.9	X	277.12494	229.60918	194.12382	21.02953	0.2747181	0.27933792	2.3176585	20	8 22.8	18.8
137324 1999 TX_{35}	16.3	X	288.66634	348.37909	19.29250	13.20104	0.1681975	0.27543024	2.3395283	20	7 15.2	19.2
137325 1999 TQ_{37}	16.0	X	288.56668	131.69847	258.02606	6.04567	0.1319684	0.28005034	2.3137263	20	8 18.5	18.6
137326 1999 TT_{40}	16.1	X	347.77713	24.83034	29.03311	7.50177	0.1702352	0.28893248	2.2660621	20	—	—
137327 1999 TK_{41}	16.7	X	350.43694	241.41140	28.63337	6.02027	0.2160014	0.27179098	2.3603661	20	6 8.7	18.3
137328 1999 TJ_{42}	17.3	X	247.55322	145.96819	336.76519	2.50934	0.1099501	0.28629279	2.2799699	20	11 4.8	19.9
137329 1999 TO_{45}	16.8	X	338.49057	331.63258	326.09351	1.90179	0.1304151	0.27411565	2.3470022	20	7 3.5	18.7
137330 1999 TS_{45}	16.2	X	203.16266	252.22246	221.42156	4.25090	0.0909658	0.27616869	2.3353560	20	8 25.1	19.5
137331 1999 TX_{53}	16.9	X	316.90438	182.70767	213.85166	6.36376	0.1049588	0.28240946	2.3008231	20	10 29.5	18.7
137332 1999 TS_{58}	17.0	X	296.90613	192.66572	163.58178	2.42054	0.2070843	0.27444275	2.3451369	20	7 1.0	19.2
137333 1999 TN_{63}	16.2	X	84.48000	144.14536	52.76974	7.47316	0.0788105	0.26991843	2.3712701	20	7 31.5	19.3
137334 1999 TC_{67}	17.0	X	358.82173	305.04911	342.16347	1.89890	0.1098794	0.27502169	2.3418447	20	7 29.4	19.2
137335 1999 TE_{68}	17.0	X	179.03003	277.41826	180.58360	2.84577	0.1430664	0.26800856	2.3825221	20	7 6.2	20.7
137336 1999 TG_{68}	16.7	X	48.33103	332.18534	173.44949	2.50030	0.1378315	0.25647392	2.4534313	20	3 28.0	19.1
137337 1999 TX_{76}	17.3	X	291.39885	312.71823	187.02755	0.20145	0.1092524	0.28977596	2.2616626	20	—	—
137338 1999 TH_{77}	16.4	X	177.83586	155.14575	24.08062	3.80227	0.1968940	0.27974371	2.3154167	20	10 18.2	19.8
137339 1999 TD_{78}	17.0	X	337.28755	308.04904	0.07243	2.79430	0.2238801	0.28038959	2.3118596	20	7 14.2	18.2
137340 1999 TB_{83}	16.9	X	225.20893	49.89549	162.91582	2.83688	0.1578700	0.29561785	2.2317675	20	—	—
137341 1999 TD_{83}	15.9	X	143.39348	19.04167	123.87406	2.04149	0.1084457	0.17720115	3.1392436	20	7 23.5	20.7
137342 1999 TU_{85}	17.6	X	245.07979	231.42687	165.22364	1.54099	0.1905425	0.27105528	2.3646351	20	6 19.4	21.1
137343 1999 TV_{85}	17.5	X	332.91010	286.39316	81.99470	1.52406	0.2171146	0.28049170	2.3112985	20	10 23.9	18.8
137344 1999 TB_{89}	16.7	X	33.24101	346.83104	358.69162	2.46922	0.1827996	0.28886004	2.2664409	20	—	—
137345 1999 TK_{89}	16.7	X	60.12279	301.24902	31.24814	1.74063	0.2240778	0.29139581	2.2532732	20	—	—
137346 1999 TP_{90}	16.2	X	357.10840	323.40926	41.43283	6.42617	0.1911326	0.28576497	2.2827765	20	12 7.5	18.3
137347 1999 TL_{94}	16.5	X	248.73275	350.77185	42.30474	5.59865	0.1564409	0.27338320	2.3511924	20	6 23.0	19.7
137348 1999 TZ_{94}	16.2	X	325.99818	327.56978	72.08879	6.43676	0.2345167	0.28409675	2.2917041	20	12 1.9	17.3
137349 1999 TQ_{97}	13.5	X	206.73019	230.01383	160.84955	9.44262	0.1795840	0.12419508	3.9786260	20	5 10.7	20.0
137350 1999 TK_{100}	16.1	X	140.44236	235.35557	48.86032	8.01774	0.2000405	0.29672783	2.2261984	20	—	—
137351 1999 TO_{100}	16.4	X	5.28439	248.99542	121.27622	4.04685	0.1731275	0.28684412	2.2770474	20	12 26.8	18.9
137352 1999 TY_{103}	16.2	X	354.27694	356.43245	332.86331	4.13303	0.1285124	0.28038939	2.3118607	20	9 26.7	18.4
137353 1999 TW_{104}	16.3	X	341.19248	97.03306	235.00030	3.30210	0.2033813	0.27964753	2.3159476	20	9 6.8	17.9
137354 1999 TA_{105}	16.9	X	32.48714	125.06824	233.19798	2.58065	0.2121411	0.28890509	2.2662053	20	—	—
137355 1999 TS_{106}	16.1	X	0.14152	98.55868	245.22452	6.06023	0.1585773	0.28516426	2.2859812	20	11 5.7	18.3
137356 1999 TN_{108}	16.2	X	10.78072	56.59654	314.34235	7.08414	0.1434955	0.28830284	2.2693602	20	—	—
137357 1999 TQ_{108}	16.5	X	37.21134	71.46336	257.90666	2.73177	0.1729359	0.28814304	2.2701992	20	12 14.4	19.4
137358 1999 TE_{111}	16.3	X	338.29781	98.90856	315.01660	6.48912	0.0943597	0.28860432	2.2677795	20	—	—
137359 1999 TS_{113}	15.9	X	205.22801	91.56381	349.03272	6.14355	0.1178608	0.27322285	2.3521122	20	7 13.7	19.3
137360 1999 TF_{114}	16.0	X	291.79502	41.94956	9.41132	5.53852	0.1527669	0.28139511	2.3063489	20	9 28.6	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137361 1999 TQ_{114}	16.5	X	65.81609	325.13562	2.16221	1.05945	0.1824471	0.29106203	2.2549955	20	—	—
137362 1999 TC_{117}	16.8	X	106.42897	326.52593	355.09943	3.88152	0.1627841	0.29545770	2.2325739	20	—	—
137363 1999 TD_{117}	16.4	X	314.02066	173.44169	214.05082	3.61613	0.1327730	0.28174706	2.3044279	20	10 7.7	18.5
137364 1999 TZ_{118}	16.8	X	355.70508	128.86340	188.65967	2.18416	0.1728904	0.28036998	2.3119674	20	9 17.1	18.6
137365 1999 TU_{120}	17.1	X	267.31136	104.81986	283.60045	1.50980	0.2321845	0.27499372	2.3420035	20	6 29.0	20.2
137366 1999 TV_{120}	16.2	X	19.06551	310.60650	3.26192	7.38116	0.1490405	0.28258567	2.2998665	20	10 21.2	18.6
137367 1999 TC_{123}	16.8	X	283.13922	350.91302	5.26635	5.28116	0.1694520	0.27400382	2.3476408	20	6 14.5	19.6
137368 1999 TE_{124}	16.6	X	326.15151	292.47747	66.90664	3.81227	0.1812413	0.28009111	2.3135018	20	9 20.2	18.1
137369 1999 TQ_{124}	16.8	X	350.18715	348.12801	345.32452	5.05577	0.1444807	0.28143515	2.3061302	20	9 27.3	18.8
137370 1999 TA_{126}	17.0	X	332.42139	339.64528	2.30532	5.99433	0.1762213	0.27964726	2.3159491	20	9 4.4	18.6
137371 1999 TF_{126}	16.1	X	186.90274	99.97369	21.30465	2.84224	0.1552047	0.27524869	2.3405569	20	8 15.7	19.7
137372 1999 TM_{126}	16.4	X	301.24284	64.81805	343.00815	6.34190	0.0870715	0.28233750	2.3012140	20	10 15.4	18.8
137373 1999 TD_{128}	16.7	X	24.24472	73.19069	10.54409	3.97785	0.1055900	0.29749344	2.2223773	20	—	—
137374 1999 TJ_{128}	16.9	X	311.45204	326.20065	49.89962	3.93901	0.1859833	0.27955443	2.3164617	20	9 11.5	18.5
137375 1999 TM_{131}	16.5	X	287.71271	213.82761	199.76042	5.79294	0.0587329	0.28218890	2.3020218	20	10 6.1	19.0
137376 1999 TT_{133}	16.3	X	71.19133	298.57288	323.31572	1.14268	0.2318674	0.28430796	2.2905689	20	10 30.4	19.6
137377 1999 TD_{135}	17.1	X	336.38979	135.34696	332.99594	1.41283	0.1487077	0.29318086	2.2441178	20	—	—
137378 1999 TS_{136}	16.4	X	255.71993	20.03212	8.83833	6.46982	0.1157043	0.27338867	2.3511610	20	7 2.9	19.5
137379 1999 TV_{138}	16.6	X	207.42305	48.51702	3.85312	1.59939	0.1785166	0.26897224	2.3768280	20	6 2.6	20.2
137380 1999 TO_{144}	16.4	X	90.08053	120.84881	187.95051	3.02613	0.1668324	0.29257332	2.2472233	20	—	—
137381 1999 TQ_{149}	16.6	X	288.31071	120.95579	286.40506	1.82930	0.2054801	0.27937075	2.3174770	20	9 4.6	18.7
137382 1999 TF_{150}	16.3	X	301.97804	270.54641	73.69019	3.74261	0.1405993	0.27523369	2.3406420	20	7 3.9	18.5
137383 1999 TL_{151}	16.9	X	348.54294	221.41961	160.69842	5.02017	0.2220798	0.28504953	2.2865945	20	12 23.7	19.0
137384 1999 TS_{154}	16.8	X	233.28855	66.74088	1.34612	5.44165	0.2157411	0.27281311	2.3544668	20	7 17.9	20.4
137385 1999 TC_{155}	16.8	X	346.70445	66.72848	253.82917	3.77965	0.2759709	0.27988515	2.3146366	20	9 7.9	17.9
137386 1999 TK_{155}	16.6	X	302.59514	40.51450	6.07824	5.90274	0.2172603	0.28049622	2.3112737	20	10 5.6	18.1
137387 1999 TB_{156}	16.2	X	203.77668	355.88824	28.76091	1.64845	0.1832978	0.26526687	2.3989105	20	4 24.5	20.0
137388 1999 TY_{156}	16.7	X	288.28886	78.64239	357.08682	8.54025	0.0560174	0.28518782	2.2858553	20	11 6.3	19.4
137389 1999 TL_{157}	16.7	X	5.41128	219.10164	213.33682	1.22209	0.1055909	0.29429949	2.2384276	20	—	—
137390 1999 TS_{157}	16.5	X	356.66551	61.88992	350.66635	6.42297	0.0888164	0.29094363	2.2556072	20	—	—
137391 1999 TF_{158}	16.6	X	207.01318	66.02864	346.81472	4.93375	0.2122654	0.26824853	2.3811010	20	5 31.6	20.5
137392 1999 TS_{159}	16.6	X	321.39379	230.06229	203.09535	6.60550	0.0616652	0.28907262	2.2653297	20	12 30.2	19.0
137393 1999 TW_{159}	16.6	X	240.75071	187.95953	263.52771	2.32698	0.1149043	0.28053266	2.3110735	20	9 9.1	19.3
137394 1999 TK_{162}	16.7	X	270.35112	329.18229	83.24992	3.83387	0.1480194	0.27723679	2.3293539	20	8 24.1	19.2
137395 1999 TZ_{163}	16.5	X	4.36439	209.12496	181.65874	9.88639	0.2178399	0.28704275	2.2759969	20	—	—
137396 1999 TY_{164}	15.7	X	289.33225	197.46160	208.69958	24.45207	0.1568348	0.28100579	2.3084787	20	9 8.2	18.4
137397 1999 TH_{165}	16.4	X	144.09553	130.90973	326.11064	4.46059	0.1838290	0.26611881	2.3937879	20	6 1.5	20.1
137398 1999 TW_{170}	16.4	X	212.62069	18.52476	23.12291	4.91823	0.1327677	0.26883482	2.3776378	20	5 26.5	20.0
137399 1999 TY_{171}	16.9	X	212.11288	256.16116	194.89695	2.72248	0.1614635	0.27276108	2.3547661	20	7 29.7	20.5
137400 1999 TC_{177}	16.8	X	28.15754	6.73858	18.06374	4.45584	0.0764863	0.29049302	2.2579392	20	—	—
137401 1999 TM_{177}	16.1	X	253.58378	178.58293	201.02237	6.12499	0.1989524	0.27122798	2.3636312	20	6 5.2	19.5
137402 1999 TS_{177}	16.9	X	357.04035	325.31652	31.31414	6.87932	0.2281772	0.28301965	2.2975148	20	11 30.2	18.9
137403 1999 TE_{178}	16.8	X	217.20657	247.31295	169.11930	2.91076	0.2320905	0.26949583	2.3737484	20	6 14.4	20.6
137404 1999 TT_{178}	15.5	X	188.57495	62.97814	75.08968	5.23769	0.1853817	0.27463206	2.3440591	20	9 8.4	19.2
137405 1999 TX_{179}	16.2	X	209.68957	185.31682	207.97114	6.30012	0.0695453	0.26701202	2.3884465	20	5 17.4	19.5
137406 1999 TC_{180}	16.4	X	322.75514	340.99373	359.06862	5.70910	0.1467336	0.27711647	2.3300281	20	8 10.3	18.3
137407 1999 TK_{180}	16.4	X	335.45812	1.27378	12.34335	7.07304	0.1187018	0.28208789	2.3025713	20	10 28.4	18.4
137408 1999 TK_{183}	16.7	X	310.14475	308.91723	92.80544	3.62359	0.1235580	0.28173958	2.3044687	20	10 25.5	18.7
137409 1999 TJ_{186}	16.2	X	248.63283	8.08861	336.02694	7.88710	0.1420391	0.26784898	2.3834683	20	4 15.4	19.8
137410 1999 TQ_{186}	16.7	X	333.75528	83.79451	300.83217	5.92351	0.1342013	0.28323161	2.2963684	20	11 12.4	18.8
137411 1999 TS_{188}	16.5	X	32.48091	36.47543	302.28581	6.77508	0.1855560	0.28662777	2.2781931	20	12 22.8	19.4
137412 1999 TM_{189}	16.3	X	166.89420	356.77418	297.52886	6.69914	0.1668922	0.29881716	2.2158092	20	—	—
137413 1999 TY_{189}	16.4	X	0.81123	58.32332	266.81963	8.22703	0.2658304	0.28162426	2.3050977	20	10 24.2	18.4
137414 1999 TB_{190}	16.3	X	259.85997	167.60289	283.91416	8.27227	0.1729414	0.27949227	2.3168052	20	9 23.2	19.2
137415 1999 TY_{192}	16.1	X	173.07203	88.39147	330.89050	6.92252	0.1450020	0.26452333	2.4034037	20	5 7.7	20.0
137416 1999 TW_{193}	16.5	X	269.11585	12.03376	7.29372	5.13843	0.2031042	0.27338141	2.3512026	20	6 22.9	19.5
137417 1999 TW_{194}	16.4	X	306.40403	339.59516	14.28212	4.42940	0.1998409	0.27583116	2.3372608	20	7 19.5	18.5
137418 1999 TK_{195}	16.5	X	269.89069	191.98204	276.34050	6.04275	0.1793148	0.28210951	2.3024537	20	11 7.6	18.6
137419 1999 TN_{195}	16.2	X	330.72222	4.27836	321.54912	5.07717	0.1520263	0.27552813	2.3389741	20	8 1.9	17.9
137420 1999 TT_{195}	16.2	X	217.83929	163.23724	271.89069	6.33324	0.0839610	0.27189440	2.3597675	20	7 21.8	19.3
137421 1999 TR_{199}	15.7	X	105.07271	315.51204	275.69811	5.79074	0.0747213	0.27879888	2.3206450	20	10 8.4	18.9
137422 1999 TE_{202}	16.8	X	292.99543	243.08073	249.96745	3.31340	0.0535366	0.29149444	2.2527649	20	—	—
137423 1999 TO_{202}	15.7	X	13.88004	56.95471	212.08185	7.67587	0.0757163	0.22665761	2.6641327	20	7 18.9	19.1
137424 1999 TY_{202}	16.4	X	7.11101	285.11626	6.74925	7.98871	0.1192633	0.27791862	2.3255425	20	8 26.6	18.6
137425 1999 TV_{205}	16.9	X	21.51940	68.37283	284.09564	2.35066	0.1523216	0.28493676	2.2871978	20	12 21.5	19.5
137426 1999 TM_{207}	15.8	X	140.51452	140.35246	301.95914	13.09669	0.0975274	0.26437192	2.4043213	20	4 27.5	19.5
137427 1999 TF_{211}	15.2	X	80.75111	161.82818	348.12255	39.17630	0.6098258	0.25714475	2.4491625	20	8 11.9	20.5
137428 1999 TJ_{211}	17.0	X	4.93122	172.28315	219.22867	4.79295	0.1468621	0.28976727	2.2617078	20	—	—
137429 1999 TX_{212}	16.5	X	49.94319	144.90685	220.50368	5.87675	0.1426273	0.29180311	2.2511760	20	—	—
137430 1999 TA_{213}	15.8	X	136.47781	161.21315	358.58162	5.64711	0.1585081	0.27384237	2.3485634	20	8 17.5	19.4
137431 1999 TU_{215}	16.8	X	304.04299	276.69118	91.71092	3.02398	0.1954016	0.27768000	2.3268746	20	8 8.3	18.8
137432 1999 TD_{216}	16.7	X	267.04541	233.53810	152.86786	2.39457	0.1761854	0.27430277	2.3459347	20	7 4.4	19.6
137433 1999 TT_{216}	16.9	X	53.30284	21.96592	315.95732	1.23865	0.2038291	0.28880247	2.2667421	20	—	—
137434 1999 TQ_{219}	16.4	X	293.17155	41.77380	325.89719	5.46100	0.1573895	0.27652551	2.3333466	20	7 22.7	18.6
137435 1999 TE_{220}	16.1	X	274.74673	125.08494	241.97298	6.12731	0.1323922	0.27415233	2.3467929	20	6 24.4	18.9
137436 1999 TE_{226}	16.5	X	260.45078	324.37695	331.36936	0.62779	0.1747782	0.26305591	2.4123335	20	2 26.1	20.1
137437 1999 TG_{229}	17.0	X	1.57371	85.65874	219.04197	4.37630	0.2102835	0.28076624	2.3097916	20	9 12.7	18.7
137438 1999 TP_{232}	16.7	X	32.98727	285.26616	106.94411	7.17375	0.1191447	0.29222639	2.2490016	20	—	—
137439 1999 TL_{233}	16.7	X	75.07064	39.81343	257.29745	6.14525	0.2431875	0.28998074	2.2605977	20	12 18.9	20.2
137440 1999 TX_{235}	16.4	X	0.77266	346.29089	64.76089	6.87259	0.1108281	0.29002322	2.2603769	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137441 1999 TG_{238}	16.5	X	199.52683	24.56750	71.61016	6.92121	0.2086843	0.27172888	2.3607256	20	7 22.7	20.3
137442 1999 TJ_{239}	15.0	X	225.62344	77.27935	63.69691	8.48849	0.1042395	0.28300413	2.2975988	20	11 2.4	17.8
137443 1999 TK_{240}	16.5	X	297.80048	180.23607	142.01427	3.09595	0.1711554	0.27209192	2.3586253	20	5 19.1	19.2
137444 1999 TE_{245}	14.4	X	9.53525	115.33438	272.36565	20.24480	0.2860981	0.28284403	2.2984657	20	—	—
137445 1999 TE_{247}	16.0	X	157.39819	323.63181	218.37596	6.60335	0.0479431	0.27864430	2.3215031	20	10 5.9	19.2
137446 1999 TW_{252}	16.6	X	349.40034	245.68428	140.71782	2.63775	0.1037697	0.28635716	2.2796282	20	12 13.4	18.9
137447 1999 TN_{254}	16.1	X	262.08933	308.19138	69.05229	14.07938	0.1975152	0.27316518	2.3524432	20	6 10.9	19.1
137448 1999 TS_{257}	16.7	X	312.45313	134.53998	175.12264	6.08963	0.2851952	0.27481728	2.3430058	20	5 4.6	19.0
137449 1999 TB_{264}	16.8	X	318.10769	255.95417	207.19835	3.79591	0.0747554	0.29002686	2.2603581	20	—	—
137450 1999 TG_{273}	15.2	X	249.69050	119.07401	319.58193	25.47532	0.1392939	0.27931573	2.3177813	20	8 25.2	18.3
137451 1999 TD_{280}	16.6	X	349.31740	311.07206	44.11062	1.47922	0.1146588	0.28366487	2.2940296	20	10 28.4	18.4
137452 1999 TW_{281}	15.9	X	71.47070	217.82500	102.94634	8.76441	0.0708022	0.24228674	2.5482945	20	12 20.0	19.4
137453 1999 TL_{283}	16.7	X	351.68951	188.64736	179.72847	5.69641	0.1398706	0.28358083	2.2944828	20	11 26.1	19.0
137454 1999 TT_{283}	16.6	X	308.43397	271.12273	58.61148	7.25769	0.2634054	0.27497000	2.3421382	20	5 30.6	18.9
137455 1999 TE_{285}	16.1	X	278.41354	5.49942	80.68751	7.32718	0.1037881	0.28141093	2.3062625	20	11 5.1	18.5
137456 1999 TF_{288}	16.8	X	234.21533	15.48530	91.72536	1.35813	0.1916297	0.27751689	2.3277863	20	9 12.9	19.8
137457 1999 TC_{289}	16.4	X	325.89758	67.65651	357.28796	7.48143	0.0519543	0.28704292	2.2759960	20	12 25.2	19.0
137458 1999 TD_{290}	16.0	X	249.96623	278.49519	179.34928	5.75306	0.1092178	0.27909185	2.3190206	20	10 4.0	18.7
137459 1999 TH_{293}	16.2	X	83.94865	9.10854	306.16682	4.34845	0.1817146	0.29003992	2.2602902	20	—	—
137460 1999 TN_{313}	15.7	X	212.28452	200.93503	260.69947	1.73993	0.0564743	0.18346892	3.0673338	20	8 15.6	20.2
137461 1999 TJ_{316}	16.3	X	15.61699	44.88048	219.65313	6.79872	0.1336924	0.27258754	2.3557655	20	7 25.5	18.7
137462 1999 TN_{316}	17.3	X	41.25081	85.54387	216.27251	2.02183	0.1658674	0.28209697	2.3025219	20	11 10.3	20.0
137463 1999 TT_{320}	16.8	X	27.98964	30.02938	321.17712	2.87774	0.1173417	0.28643343	2.2792235	20	12 23.5	19.5
137464 1999 TV_{320}	16.6	X	346.53324	307.14277	35.38149	8.56233	0.1553562	0.27955762	2.3164441	20	10 8.7	18.4
137465 1999 UG_{3}	16.7	X	204.18566	55.12536	352.88625	2.40709	0.0999869	0.26656967	2.3910880	20	5 28.1	20.2
137466 1999 UB_{4}	16.6	X	189.35867	38.12242	27.77417	2.78028	0.1707589	0.26740500	2.3861058	20	6 3.4	20.3
137467 1999 UN_{9}	16.3	X	149.24028	109.98893	315.35270	0.27269	0.2317346	0.26106650	2.4245731	20	4 30.0	20.4
137468 1999 UT_{11}	16.3	X	138.86526	319.23471	199.49269	1.58560	0.1342989	0.27118662	2.3638716	20	8 15.1	19.8
137469 1999 UE_{14}	16.1	X	228.13674	35.95062	57.26421	7.21015	0.1871033	0.27516110	2.3410536	20	8 20.9	19.5
137470 1999 UX_{15}	16.4	X	300.53285	263.81468	110.14510	3.59286	0.1662585	0.27718853	2.3296243	20	8 14.7	18.4
137471 1999 UN_{16}	16.3	X	300.80021	339.76717	20.33944	3.92216	0.1889223	0.27594034	2.3366442	20	7 19.8	18.6
137472 1999 UW_{16}	16.6	X	260.83751	57.42159	10.26775	2.30733	0.1912433	0.27661436	2.3328469	20	8 23.4	19.3
137473 1999 UY_{16}	16.6	X	217.22179	48.87598	10.89040	5.15222	0.2249572	0.27125778	2.3634581	20	6 18.8	20.5
137474 1999 UT_{17}	16.7	X	12.20465	137.93410	169.73811	2.45261	0.1719436	0.28143078	2.3061541	20	10 6.4	18.9
137475 1999 UD_{19}	16.9	X	331.00044	333.02199	36.45222	5.43256	0.1650417	0.28111977	2.3078547	20	10 17.7	18.7
137476 1999 UC_{20}	17.3	X	338.38853	19.32068	57.49752	1.74990	0.0868716	0.29078017	2.2564525	20	—	—
137477 1999 UG_{20}	16.5	X	211.66565	107.47196	71.63774	1.70781	0.0425209	0.28844601	2.2686092	20	12 14.8	19.2
137478 1999 UP_{21}	16.8	X	27.75523	82.72407	207.42543	0.63113	0.2267155	0.28069039	2.3102077	20	10 15.6	19.3
137479 1999 UC_{24}	16.4	X	344.12921	26.94128	316.81163	4.87100	0.1397600	0.28024647	2.3126466	20	9 28.9	18.3
137480 1999 UD_{30}	16.7	X	213.04888	104.54566	30.83525	9.59552	0.1688939	0.28055511	2.3109502	20	10 1.8	19.9
137481 1999 UJ_{30}	16.9	X	202.02987	149.67274	31.25796	9.43187	0.0785517	0.28707677	2.2758170	20	11 26.9	20.0
137482 1999 UM_{30}	16.9	X	5.05836	155.93986	185.49420	3.18407	0.2648754	0.28458732	2.2890697	20	11 30.9	19.0
137483 1999 UT_{32}	17.1	X	108.73596	132.72426	27.50724	3.04368	0.1240039	0.26904805	2.3763814	20	7 15.1	20.4
137484 1999 UK_{34}	17.0	X	80.66216	44.91015	206.52602	2.18420	0.1392864	0.28040186	2.3117922	20	10 16.9	20.3
137485 1999 UR_{35}	16.8	X	60.95989	337.10360	315.92558	0.59627	0.2172444	0.28421640	2.2910608	20	11 27.8	19.9
137486 1999 UY_{35}	16.7	X	28.13474	94.36988	192.25527	9.20664	0.0972001	0.28151030	2.3057198	20	9 17.5	19.3
137487 1999 UA_{37}	16.6	X	299.64348	20.62234	31.96602	4.03144	0.1673385	0.28213456	2.3023174	20	10 16.0	18.4
137488 1999 UG_{44}	16.6	X	357.56987	125.49147	253.70487	5.37542	0.1497571	0.28503380	2.2866787	20	12 22.7	18.9
137489 1999 UN_{45}	16.7	X	289.82221	181.41994	245.61463	6.53959	0.2061801	0.28075328	2.3098627	20	10 8.3	18.5
137490 1999 UQ_{50}	16.2	X	299.67853	206.22818	118.05351	3.54349	0.1769050	0.27184253	2.3600676	20	5 24.1	18.7
137491 1999 UD_{51}	16.3	X	260.95991	350.06019	87.56560	8.07332	0.2082956	0.27713081	2.3299477	20	9 7.9	19.2
137492 1999 UM_{51}	16.4	X	314.79774	278.35095	152.78828	6.16645	0.1315455	0.28412318	2.2915619	20	12 19.2	18.4
137493 1999 UO_{51}	16.0	X	37.27510	232.76577	115.95597	5.76789	0.1865265	0.28701681	2.2761340	20	—	—
137494 1999 UJ_{52}	15.6	X	147.16153	22.96649	117.43003	9.02493	0.1867360	0.26878609	2.3779252	20	8 1.7	19.3
137495 1999 UH_{53}	16.6	X	298.53731	111.34662	319.56610	5.68567	0.1623446	0.28324140	2.2963155	20	11 10.2	18.5
137496 1999 UM_{53}	16.6	X	4.17036	59.47224	220.99439	6.72956	0.1153302	0.27322760	2.3520850	20	7 26.3	19.0
137497 1999 VH	17.0	X	275.75983	305.12635	128.56789	2.46363	0.1906364	0.27954866	2.3164936	20	9 26.9	19.3
137498 1999 VP_{8}	15.7	X	216.84234	15.04423	84.88617	5.36298	0.1884622	0.27388110	2.3483420	20	8 15.9	19.2
137499 1999 VS_{11}	16.3	X	207.23529	41.89891	52.43249	5.91670	0.1985365	0.27057396	2.3674385	20	7 28.7	20.1
137500 1999 VG_{13}	15.6	X	317.37256	91.82142	39.99490	22.23486	0.2374275	0.28628559	2.2800081	20	—	—
137501 1999 VE_{15}	17.1	X	349.25871	141.75172	309.72931	1.28946	0.0647577	0.29548041	2.2324595	20	—	—
137502 1999 VP_{19}	16.4	X	3.86863	313.41042	46.38646	6.18051	0.1958773	0.28384561	2.2930556	20	12 11.9	18.7
137503 1999 VZ_{19}	16.2	X	42.25726	288.34612	33.15521	5.70184	0.2149924	0.28624617	2.2802174	20	12 14.5	19.4
137504 1999 VO_{21}	16.8	X	330.87037	115.04083	223.93029	11.10001	0.3187930	0.27896722	2.3197113	20	8 7.9	18.0
137505 1999 VZ_{21}	16.6	X	278.60764	146.86069	194.91488	1.82548	0.2382466	0.27052650	2.3677155	20	5 8.3	19.8
137506 1999 VA_{22}	16.6	X	228.09763	202.39970	154.36525	1.07828	0.2328908	0.26536079	2.3983444	20	4 9.0	20.6
137507 1999 VH_{23}	16.7	X	258.22291	17.50225	19.90082	6.58191	0.1104804	0.27329796	2.3516812	20	7 20.9	19.7
137508 1999 VV_{27}	16.7	X	269.13334	35.84150	35.00576	5.64929	0.2083246	0.27802027	2.3249756	20	9 9.2	19.1
137509 1999 VA_{29}	16.1	X	269.48204	60.27732	50.20156	4.31100	0.1270896	0.28200411	2.3030273	20	11 19.8	18.2
137510 1999 VL_{30}	16.0	X	201.45318	149.20878	246.75884	5.16772	0.1317395	0.26448918	2.4036106	20	5 7.8	19.7
137511 1999 VW_{32}	16.5	X	328.60872	152.77972	221.18480	2.76769	0.1138667	0.27916551	2.3186127	20	10 15.8	18.6
137512 1999 VZ_{33}	16.1	X	139.08573	280.94721	238.05373	6.16222	0.0598497	0.27144068	2.3623963	20	8 10.2	19.4
137513 1999 VY_{35}	16.3	X	167.35067	197.66001	226.14948	3.05274	0.1999735	0.26229470	2.4169984	20	5 12.5	20.1
137514 1999 VG_{37}	16.3	X	8.03086	160.83933	249.15869	6.27603	0.2115332	0.28772839	2.2723798	20	—	—
137515 1999 VC_{38}	16.4	X	255.53522	133.51634	255.77830	1.17678	0.2090737	0.27112362	2.3642378	20	6 18.9	19.8
137516 1999 VY_{41}	16.8	X	74.19276	274.03393	348.18970	3.83902	0.1275771	0.28150697	2.3057380	20	10 21.3	19.9
137517 1999 VT_{42}	16.9	X	16.38444	38.08907	310.50016	1.60618	0.1826966	0.28522935	2.2856334	20	12 13.9	19.5
137518 1999 VA_{43}	17.5	X	279.56014	154.54714	172.92352	2.15677	0.2232427	0.26882141	2.3777169	20	4 22.4	20.5
137519 1999 VW_{43}	16.9	X	12.36135	347.46082	35.35380	2.91806	0.2571909	0.28845650	2.2685542	20	—	—
137520 1999 VP_{44}	16.6	X	231.05779	82.06669	335.78923	5.29150	0.1921586	0.27256287	2.3559076	20	7 3.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137521 1999 VZ_{46}	16.3	X	28.10203	111.55959	215.63901	7.87442	0.1644769	0.28363711	2.2941793	20	11 28.1	19.0
137522 1999 VD_{48}	16.3	X	324.14466	64.01318	355.01997	9.74717	0.1496757	0.28503159	2.2866959	20	12 20.8	18.5
137523 1999 VJ_{49}	16.2	X	231.59022	146.78854	249.43952	5.24776	0.1119432	0.26944352	2.3740556	20	6 12.3	19.3
137524 1999 VM_{49}	17.0	X	228.50803	147.08327	238.33784	5.86900	0.2435724	0.26869777	2.3784463	20	5 14.2	20.8
137525 1999 VM_{50}	17.0	X	254.00595	81.30713	314.89406	1.34038	0.2157477	0.27200100	2.3591509	20	6 25.9	20.3
137526 1999 VB_{51}	16.5	X	319.54945	341.08606	348.30037	4.24546	0.1627765	0.27483531	2.3429033	20	7 12.6	18.4
137527 1999 VA_{52}	16.4	X	235.46545	191.29506	293.24387	1.14439	0.1757725	0.27876519	2.3208319	20	10 9.4	19.2
137528 1999 VP_{54}	16.2	X	347.19633	115.80205	204.86217	2.11578	0.1439061	0.27753089	2.3277080	20	8 30.0	17.9
137529 1999 VR_{54}	16.8	X	217.19026	44.32420	43.42299	2.99816	0.1781378	0.27287072	2.3541353	20	7 30.9	20.2
137530 1999 VH_{58}	15.5	X	247.03613	223.40549	227.32654	11.81257	0.1567547	0.27650355	2.3334701	20	9 5.5	18.8
137531 1999 VX_{58}	16.4	X	320.24862	354.12798	46.65462	7.04393	0.1359435	0.28156536	2.3054192	20	11 11.6	18.2
137532 1999 VL_{59}	14.3	X	255.53265	109.11399	260.26523	1.52194	0.0935313	0.12534297	3.9542979	20	6 6.1	20.0
137533 1999 VQ_{61}	16.5	X	355.52263	82.76244	230.98466	2.68049	0.1601661	0.27754971	2.3276027	20	9 6.9	18.5
137534 1999 VT_{61}	16.4	X	282.42418	204.31193	227.47107	6.51186	0.0642519	0.28078702	2.3096776	20	10 22.7	18.9
137535 1999 VE_{62}	16.8	X	159.07970	210.84528	226.47412	0.54926	0.1575087	0.26405304	2.4062566	20	5 20.7	20.6
137536 1999 VC_{63}	17.0	X	270.43607	345.57982	51.44207	4.86672	0.1926369	0.27474706	2.3434050	20	7 23.7	19.8
137537 1999 VR_{66}	16.8	X	227.99208	168.83355	223.76246	5.55885	0.1214482	0.26836145	2.3804330	20	6 2.4	20.1
137538 1999 VJ_{67}	16.7	X	206.66259	245.89018	217.21279	1.86979	0.1205465	0.27277215	2.3547024	20	8 12.8	20.0
137539 1999 VD_{69}	16.7	X	222.07848	299.28877	191.44536	2.05053	0.1626566	0.27888503	2.3201670	20	10 3.8	19.8
137540 1999 VE_{69}	17.1	X	326.66405	315.18842	60.37127	2.93305	0.1140540	0.28040425	2.3117790	20	10 16.5	19.2
137541 1999 VN_{70}	17.1	X	286.67922	307.67879	106.12589	0.83460	0.1988480	0.27826398	2.3236179	20	9 14.2	19.1
137542 1999 VQ_{70}	16.7	X	307.87609	302.11272	56.92715	4.08036	0.1480096	0.27555779	2.3388063	20	8 9.1	18.8
137543 1999 VW_{70}	17.0	X	10.80337	129.60265	214.73163	3.49716	0.2351345	0.28345159	2.2951802	20	12 8.3	19.3
137544 1999 VG_{72}	16.2	X	267.10155	146.16090	251.31191	2.79338	0.2117804	0.27299259	2.3534347	20	7 14.4	19.1
137545 1999 VP_{75}	16.7	X	16.43213	26.10864	220.47249	5.25115	0.0909029	0.26820303	2.3813703	20	6 25.6	19.2
137546 1999 VY_{76}	17.4	X	9.43503	234.19220	81.78190	3.79916	0.1928456	0.27871779	2.3210950	20	10 18.4	19.5
137547 1999 VZ_{76}	17.0	X	17.98043	80.43351	162.44091	2.14074	0.1520613	0.26730297	2.3867130	20	6 29.2	19.2
137548 1999 VE_{77}	15.9	X	103.18602	71.95882	75.37309	5.64539	0.1505130	0.26326979	2.4110267	20	6 22.9	19.1
137549 1999 VW_{77}	16.9	X	293.88096	5.05871	30.02079	3.38716	0.2179163	0.27726897	2.3291736	20	8 27.4	18.9
137550 1999 VV_{78}	16.1	X	313.86403	301.91159	33.77621	7.55155	0.1438906	0.27485735	2.3427780	20	7 14.4	18.4
137551 1999 VL_{84}	16.4	X	138.26722	308.76555	229.15467	2.82015	0.0647586	0.27512247	2.3412727	20	9 6.4	19.7
137552 1999 VG_{85}	16.2	X	100.45640	24.63002	223.55534	6.00911	0.0796163	0.28037791	2.3119238	20	10 29.1	19.1
137553 1999 VY_{85}	16.5	X	219.91669	34.48413	26.28358	4.87231	0.1434973	0.27068330	2.3668010	20	6 29.7	20.1
137554 1999 VA_{86}	16.6	X	303.47548	310.37272	30.12748	5.66234	0.2524164	0.27503583	2.3417644	20	6 9.1	19.0
137555 1999 VE_{86}	15.8	X	146.54367	116.12688	10.29563	2.59107	0.1421956	0.26816777	2.3815790	20	7 12.1	19.3
137556 1999 VA_{89}	16.6	X	61.67383	279.86896	186.97351	1.79577	0.1029877	0.30265689	2.1970284	20	2 10.5	18.7
137557 1999 VH_{89}	17.1	X	215.20018	239.07206	198.96037	1.71114	0.1656060	0.27107960	2.3644937	20	7 15.4	20.6
137558 1999 VY_{89}	16.4	X	237.54682	53.60478	18.59989	6.76826	0.0939146	0.27630356	2.3345960	20	8 15.4	19.4
137559 1999 VE_{90}	16.9	X	352.23824	127.29448	203.03899	0.79182	0.2440788	0.28132368	2.3067393	20	10 11.9	18.2
137560 1999 VL_{92}	16.3	X	334.67324	318.69780	27.17112	6.90835	0.1359949	0.28016907	2.3130725	20	9 17.6	18.3
137561 1999 VH_{94}	16.2	X	1.10133	115.62361	203.42576	3.14258	0.2407413	0.28126768	2.3070455	20	10 13.4	17.8
137562 1999 VX_{95}	16.7	X	216.94649	42.91922	32.50458	2.54215	0.1791641	0.27198956	2.3592170	20	7 13.5	20.2
137563 1999 VB_{96}	17.0	X	85.24686	132.61701	196.55709	3.07430	0.0454231	0.29047402	2.2580377	20	—	—
137564 1999 VD_{100}	16.9	X	299.66171	297.38924	44.97232	4.42085	0.2219725	0.27364417	2.3496973	20	6 11.2	19.2
137565 1999 VW_{101}	16.3	X	349.61999	235.55360	55.77247	11.04877	0.1539962	0.27226365	2.3576334	20	7 19.6	18.5
137566 1999 VO_{104}	16.9	X	356.25264	294.23474	52.41591	7.22956	0.1363275	0.28076276	2.3098106	20	10 31.3	18.9
137567 1999 VZ_{104}	16.7	X	175.61797	285.39109	215.20529	1.80381	0.1639902	0.27240798	2.3568006	20	8 27.5	20.5
137568 1999 VW_{106}	16.6	X	359.03638	98.42207	227.97817	6.96958	0.1344528	0.27776958	2.3263743	20	9 30.5	18.8
137569 1999 VJ_{108}	16.7	X	173.21630	214.39461	224.77968	3.70813	0.1633812	0.26481945	2.4016117	20	6 6.1	20.5
137570 1999 VF_{109}	16.6	X	179.50023	248.72319	237.51802	4.47962	0.0594758	0.27146243	2.3622702	20	8 15.4	19.9
137571 1999 VT_{110}	17.3	X	270.06196	241.23421	228.87878	5.75490	0.1369150	0.28131704	2.3067756	20	11 19.1	19.3
137572 1999 VC_{112}	17.0	X	29.01265	43.28555	76.09410	2.10668	0.0505037	0.29833276	2.2182071	20	1 3.9	19.1
137573 1999 VR_{113}	16.2	X	105.77342	40.73235	317.71529	2.89283	0.2013269	0.29691892	2.2252431	20	—	—
137574 1999 VF_{120}	16.4	X	274.18712	318.58684	39.99202	5.76554	0.1613967	0.27351953	2.3504110	20	6 5.9	19.4
137575 1999 VT_{121}	16.9	X	244.44710	73.18946	40.18396	5.70112	0.1702272	0.27987936	2.3146685	20	10 9.2	19.5
137576 1999 VZ_{123}	16.9	X	266.27982	153.20470	164.22494	2.05859	0.2062957	0.26537213	2.3982761	20	3 27.6	20.4
137577 1999 VW_{125}	16.5	X	79.43534	135.11984	54.94377	2.95299	0.1555498	0.26757817	2.3850762	20	7 24.8	19.5
137578 1999 VN_{127}	17.4	X	301.42777	351.27795	55.97308	3.10836	0.1523905	0.28156277	2.3054333	20	10 13.4	19.2
137579 1999 VH_{130}	17.2	X	326.28268	3.24445	39.81773	2.98677	0.1036885	0.28502417	2.2867302	20	11 26.3	19.4
137580 1999 VO_{136}	16.2	X	253.17246	7.27039	56.63615	6.72735	0.1511846	0.27335198	2.3513714	20	8 15.8	19.2
137581 1999 VV_{137}	16.5	X	121.18740	126.07796	290.09992	1.04402	0.1500250	0.30316655	2.1945654	20	3 8.7	19.2
137582 1999 VE_{139}	16.6	X	124.43182	65.22230	102.38070	3.23562	0.1341164	0.26920472	2.3754594	20	8 12.9	20.0
137583 1999 VE_{141}	16.3	X	30.97846	298.82032	38.67162	7.09447	0.1727114	0.28511966	2.2862196	20	12 16.2	19.3
137584 1999 VK_{142}	16.9	X	184.75837	252.69080	160.03159	1.56446	0.1708707	0.26440775	2.4041041	20	5 13.9	20.6
137585 1999 VJ_{145}	17.1	X	332.58528	220.65040	201.68922	5.11118	0.2164435	0.28664141	2.2781209	20	—	—
137586 1999 VS_{145}	16.9	X	89.48065	349.54144	155.46168	0.95931	0.0958238	0.26201886	2.4186945	20	5 25.1	19.8
137587 1999 VU_{146}	16.4	X	154.68547	112.92207	21.11371	1.55137	0.1287235	0.26910259	2.3760603	20	7 30.4	19.8
137588 1999 VN_{147}	17.0	X	317.38010	206.25009	193.97356	1.46033	0.2054568	0.28088552	2.3091376	20	11 5.7	18.4
137589 1999 VR_{149}	16.6	X	282.61900	311.75329	31.90575	3.45499	0.1710989	0.27062937	2.3671154	20	5 25.9	19.4
137590 1999 VF_{151}	17.1	X	276.73676	150.25241	276.31407	1.59845	0.1762043	0.27769204	2.3268074	20	9 17.5	19.6
137591 1999 VN_{153}	16.8	X	216.20275	150.45867	201.47649	2.97035	0.1817620	0.26263964	2.4148818	20	3 25.3	20.6
137592 1999 VU_{153}	17.1	X	204.54822	73.54412	46.96770	5.62510	0.1570461	0.27487940	2.3426528	20	9 3.6	20.6
137593 1999 VM_{158}	16.3	X	276.78380	120.82642	238.54377	5.58762	0.1443480	0.27178331	2.3604104	20	6 14.4	19.1
137594 1999 VA_{161}	16.0	X	78.83544	114.83767	44.77168	3.41791	0.1402133	0.26213302	2.4179922	20	6 6.6	19.0
137595 1999 VP_{161}	17.0	X	206.10787	38.75646	344.61802	2.03494	0.2050438	0.26516611	2.3995181	20	4 23.8	20.9
137596 1999 VV_{161}	16.6	X	257.53647	13.38895	29.89287	6.49162	0.1016552	0.27326337	2.3518797	20	7 30.4	19.5
137597 1999 VW_{161}	16.6	X	289.05572	332.64311	22.24197	4.57608	0.2702735	0.27408775	2.3471615	20	6 3.5	19.3
137598 1999 VA_{164}	16.1	X	146.66249	137.25509	7.97919	2.77423	0.1069372	0.27041556	2.3683630	20	8 5.8	19.5
137599 1999 VN_{164}	16.3	X	172.12054	178.56473	240.36133	6.44970	0.1067202	0.26380747	2.4077496	20	5 7.5	19.8
137600 1999 VJ_{169}	17.2	X	235.65037	135.08794	315.64339	1.62543	0.1742491	0.27394247	2.3479912	20	8 23.9	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137601 1999 VO_{170}	17.3	X	230.43275	53.03412	41.39138	2.51937	0.1802754	0.27338732	2.3511688	20	8 23.6	20.5
137602 1999 VF_{171}	16.4	X	290.04184	328.66617	44.34329	5.14223	0.1841654	0.27348802	2.3505916	20	7 20.8	18.8
137603 1999 VJ_{171}	16.7	X	38.23342	59.57179	265.23703	4.14852	0.2519239	0.28451226	2.2894723	20	12 19.1	19.7
137604 1999 VP_{173}	16.9	X	328.57195	338.41418	66.39352	6.26849	0.1541186	0.28328442	2.2960830	20	12 7.2	18.5
137605 1999 VK_{174}	13.8	X	216.35494	46.83858	87.02279	24.23057	0.2507410	0.27854004	2.3220824	20	10 6.2	17.9
137606 1999 VJ_{175}	16.7	X	307.33184	83.42082	263.19392	2.48196	0.2055905	0.27610453	2.3357178	20	7 6.6	18.7
137607 1999 VC_{176}	16.3	X	4.96832	217.33278	116.93356	4.58649	0.2569464	0.28349566	2.2949423	20	11 19.4	18.4
137608 1999 VZ_{176}	16.5	X	191.59600	270.13937	175.16021	5.89824	0.1671245	0.26923693	2.3752699	20	7 1.1	20.2
137609 1999 VF_{180}	16.5	X	335.47644	10.38661	69.71402	7.27939	0.1402787	0.28861936	2.2677008	20	—	—
137610 1999 VB_{183}	16.9	X	69.41127	246.25784	242.97637	1.35702	0.1633946	0.25630725	2.4544948	20	4 13.2	19.4
137611 1999 VU_{183}	16.7	X	277.96149	345.36229	69.25451	5.72864	0.1957943	0.27586146	2.3370896	20	9 2.1	19.1
137612 1999 VQ_{187}	16.0	X	133.81392	38.88666	87.98195	4.96025	0.0983275	0.26609553	2.3939275	20	6 25.3	19.3
137613 1999 VW_{188}	16.8	X	256.00962	218.44449	163.88579	2.52417	0.2416372	0.27123136	2.3636116	20	6 6.2	20.2
137614 1999 VN_{189}	16.3	X	340.81744	141.07262	232.59389	7.58745	0.2226062	0.28124042	2.3071946	20	11 22.8	17.8
137615 1999 VR_{191}	16.6	X	187.54946	124.86603	59.13558	4.06625	0.1001996	0.28118298	2.3075088	20	11 11.7	19.7
137616 1999 VJ_{192}	16.0	X	230.74096	134.11735	335.56320	6.59851	0.2037152	0.27721581	2.3294714	20	9 8.9	19.1
137617 1999 VJ_{195}	15.9	X	221.95144	209.54481	184.69059	6.19455	0.1222586	0.26890377	2.3772314	20	5 29.4	19.4
137618 1999 VT_{197}	16.3	X	321.52315	325.61675	102.57809	4.78654	0.1170178	0.28574546	2.2828804	20	12 27.0	18.1
137619 1999 VG_{204}	16.9	X	324.58454	91.24944	25.61653	5.74129	0.0500519	0.29453743	2.2372218	20	—	—
137620 1999 VD_{207}	16.3	X	143.24615	124.78236	10.00150	2.10411	0.1556168	0.26819507	2.3814174	20	7 20.5	19.8
137621 1999 VL_{207}	17.1	X	249.76481	305.85282	232.93895	1.68511	0.0706529	0.28964888	2.2623240	20	—	—
137622 1999 VR_{207}	16.3	X	19.32480	26.71369	241.30712	4.96702	0.0861728	0.27401317	2.3475873	20	8 1.7	18.8
137623 1999 VB_{211}	16.6	X	186.00674	273.42735	155.24720	6.66486	0.2522683	0.26604123	2.3942532	20	6 4.4	20.8
137624 1999 VQ_{213}	16.2	X	224.64255	229.52494	142.93777	3.41883	0.2122997	0.26739610	2.3861588	20	4 27.8	20.1
137625 1999 VT_{219}	16.3	X	1.48749	217.89656	178.69636	6.63731	0.1558688	0.28722973	2.2750090	20	—	—
137626 1999 VG_{220}	16.9	X	54.08601	257.46865	355.35153	5.43487	0.1364715	0.28085059	2.3093291	20	9 15.5	19.7
137627 1999 VS_{220}	17.0	X	281.59476	99.47273	328.39411	2.65862	0.1474577	0.27930581	2.3178362	20	10 3.5	19.2
137628 1999 VH_{222}	17.4	X	37.66333	306.33478	319.27756	1.72719	0.1874987	0.27751023	2.3278235	20	9 17.2	20.0
137629 1999 VN_{226}	13.9	X	68.16843	127.87868	264.42312	16.56194	0.1535941	0.15461284	3.4379985	20	—	—
137630 1999 WV	16.2	X	61.41947	151.88379	267.86512	5.11434	0.1775803	0.29557952	2.2319604	20	—	—
137631 1999 WU_{1}	16.0	X	16.70242	316.61869	61.45561	9.44016	0.1785377	0.28746464	2.2737695	20	—	—
137632 Ramsauer	17.1	X	319.81316	213.56170	169.17018	1.68748	0.2104038	0.28174269	2.3044517	20	10 12.7	18.3
137633 1999 WR_{2}	16.6	X	241.33745	57.74867	328.05374	1.82692	0.1994052	0.26935468	2.3745776	20	5 30.3	20.3
137634 1999 WF_{5}	16.4	X	39.17982	309.90916	35.01578	7.74777	0.2608475	0.28952466	2.2629711	20	—	—
137635 1999 WD_{8}	16.5	X	227.29884	29.87979	74.58196	5.39544	0.1778106	0.27455968	2.3444711	20	9 4.8	19.8
137636 1999 WS_{8}	16.1	X	111.72849	231.07392	121.55330	5.70813	0.1383476	0.29533051	2.2332148	20	—	—
137637 1999 WS_{10}	17.2	X	183.42055	307.75878	232.48108	6.33870	0.1635000	0.27854655	2.3220462	20	10 26.1	20.8
137638 1999 WS_{11}	16.2	X	81.64007	303.27190	34.50297	4.53018	0.1556696	0.29358532	2.2420562	20	—	—
137639 1999 WC_{12}	17.2	X	346.50439	233.65922	87.77449	3.02177	0.2369149	0.27533017	2.3400952	20	9 8.6	18.4
137640 1999 WW_{12}	16.7	X	174.94594	112.31581	86.03626	3.35541	0.1668519	0.28023108	2.3127313	20	11 11.5	20.1
137641 1999 WE_{13}	16.7	X	313.09551	95.12243	241.33532	3.11245	0.1313021	0.27387289	2.3483889	20	7 13.3	18.9
137642 1999 WU_{14}	17.2	X	149.29026	107.46356	69.46386	2.15091	0.0884878	0.27499316	2.3420066	20	9 20.9	20.4
137643 1999 WC_{15}	17.4	X	340.69644	122.55600	202.66573	1.47766	0.2258684	0.27937182	2.3174711	20	8 25.9	18.6
137644 1999 WJ_{15}	16.3	X	336.88040	71.66679	228.80970	2.79734	0.1966524	0.27347469	2.3506680	20	6 29.0	18.0
137645 1999 WZ_{15}	16.1	X	305.84193	232.61692	58.88379	7.04473	0.2328612	0.26843132	2.3800199	20	4 8.3	18.9
137646 1999 WB_{16}	16.6	X	75.65419	89.42454	75.32789	2.28690	0.1243061	0.26360383	2.4089895	20	6 7.1	19.5
137647 1999 WR_{16}	17.2	X	320.35858	159.51941	240.15126	1.78876	0.1579580	0.28355095	2.2946440	20	11 11.6	18.8
137648 1999 WF_{19}	17.0	X	270.38496	176.33412	243.93014	1.15949	0.1554959	0.27696043	2.3309032	20	8 31.9	19.4
137649 1999 WJ_{20}	17.2	X	208.53435	67.22855	346.28900	2.77929	0.1913989	0.26786598	2.3833675	20	6 4.4	21.0
137650 1999 WZ_{24}	16.5	X	327.08957	261.63252	75.56936	10.15325	0.0595081	0.27346031	2.3507504	20	8 21.8	19.2
137651 1999 WG_{25}	16.8	X	74.62037	45.11587	223.91249	1.24372	0.1802916	0.27988203	2.3146538	20	11 6.6	20.2
137652 1999 WJ_{25}	16.9	X	139.39537	337.44682	237.46132	4.00865	0.0976295	0.27913809	2.3187645	20	10 28.9	20.1
137653 1999 XY	15.1	X	217.38353	175.19768	273.54308	4.46376	0.1992073	0.26982523	2.3718161	20	7 28.4	18.8
137654 1999 XP_{2}	17.1	X	186.83600	76.20059	83.60983	3.25073	0.1484253	0.27634285	2.3343746	20	10 6.6	20.6
137655 1999 XE_{3}	15.3	X	123.23988	322.45027	212.79854	6.29546	0.0611274	0.27138194	2.3627372	20	8 13.3	18.6
137656 1999 XU_{6}	16.5	X	232.49972	80.08867	312.15419	1.49908	0.2047910	0.26859562	2.3790492	20	5 29.6	20.3
137657 1999 XZ_{8}	15.5	X	309.27076	338.68154	69.59360	26.04489	0.2312397	0.28101416	2.3084329	20	11 8.1	17.2
137658 1999 XZ_{9}	16.7	X	246.04340	317.56266	76.51829	5.46721	0.2206001	0.27071108	2.3666391	20	6 13.4	20.1
137659 1999 XD_{12}	16.2	X	273.31615	110.86309	326.62065	6.75653	0.2535112	0.27837329	2.3230096	20	9 13.0	18.6
137660 1999 XO_{12}	15.6	X	155.59078	167.64112	250.77707	11.96792	0.1812889	0.25819360	2.4425253	20	4 21.6	19.6
137661 1999 XF_{15}	15.5	X	298.13461	159.34653	309.33607	24.55835	0.2648489	0.27988961	2.3146120	20	—	—
137662 1999 XJ_{16}	15.7	X	345.50304	145.39598	251.36328	23.93273	0.1698856	0.28383382	2.2931191	20	12 27.0	18.1
137663 1999 XH_{19}	16.1	X	23.53681	300.06042	47.71742	7.39347	0.1387505	0.28699795	2.2762337	20	12 15.6	18.9
137664 1999 XJ_{22}	16.4	X	296.13593	160.23679	205.49644	4.29655	0.2273497	0.27563853	2.3383496	20	7 10.2	18.6
137665 1999 XR_{24}	16.9	X	268.89626	321.35633	91.31277	3.27871	0.2292957	0.27566706	2.3381882	20	8 6.7	19.7
137666 1999 XG_{25}	15.4	X	348.56050	333.16335	70.56662	11.34249	0.1149910	0.28538661	2.2847937	20	—	—
137667 1999 XW_{25}	16.8	X	326.45592	306.70235	78.66668	5.65907	0.1551024	0.28036984	2.3119682	20	11 3.0	18.6
137668 1999 XK_{28}	16.5	X	276.62402	320.88637	91.73618	3.66864	0.1569764	0.27619391	2.3352138	20	9 2.2	18.9
137669 1999 XX_{28}	16.9	X	291.02233	222.70522	189.42038	2.31632	0.1673978	0.27800234	2.3250756	20	9 24.8	18.9
137670 1999 XE_{33}	15.8	X	141.17450	36.05120	92.13516	2.20768	0.1252428	0.26076415	2.4264469	20	7 7.2	19.4
137671 1999 XP_{35}	18.6	X	321.48795	198.28984	263.46625	21.10526	0.1842771	0.57361827	1.4345667	20	—	—
137672 1999 XP_{40}	15.6	X	255.89282	112.79347	54.18215	23.94106	0.2310288	0.28618805	2.2805261	20	—	—
137673 1999 XX_{40}	16.5	X	5.38909	349.45196	41.70705	4.00508	0.1649639	0.28680441	2.2772576	20	—	—
137674 1999 XA_{42}	17.2	X	231.33771	60.70987	45.89779	0.47708	0.2864778	0.27494755	2.3422656	20	8 27.5	20.8
137675 1999 XF_{42}	16.4	X	213.48063	143.61243	330.68893	1.83208	0.1498233	0.27467138	2.3438354	20	9 2.6	19.7
137676 1999 XH_{42}	16.3	X	225.21191	132.39868	308.23941	1.67371	0.1825308	0.27216387	2.3582096	20	7 28.4	19.8
137677 1999 XA_{44}	16.8	X	287.35599	333.82917	29.03075	3.02047	0.2393685	0.27385885	2.3484692	20	6 18.9	19.6
137678 1999 XW_{44}	16.4	X	259.88859	194.24816	246.45070	4.91781	0.1434615	0.27716924	2.3297324	20	9 14.6	19.2
137679 1999 XC_{45}	16.4	X	320.96203	286.82046	58.45748	3.12974	0.2330128	0.27645157	2.3337626	20	8 4.5	17.8
137680 1999 XW_{45}	16.8	X	160.52590	139.00801	327.02306	1.60350	0.1657718	0.26589979	2.3951022	20	6 29.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137681 1999 XT_{46}	16.8	X	287.41766	155.82339	239.09465	6.10037	0.1091843	0.27568016	2.3381141	20	8 27.2	19.5
137682 1999 XD_{48}	16.6	X	224.41556	16.38574	78.29325	6.14268	0.1941688	0.27301913	2.3532821	20	8 16.7	20.1
137683 1999 XS_{50}	17.0	X	240.21052	279.78074	109.15711	2.12196	0.1969159	0.26922334	2.3753498	20	6 3.2	20.4
137684 1999 XH_{51}	17.4	X	209.90769	230.86631	212.83301	0.61801	0.1605147	0.26983369	2.3717665	20	7 18.1	21.0
137685 1999 XT_{51}	16.8	X	283.40348	295.31667	67.32086	3.27894	0.2367679	0.27273764	2.3549011	20	6 13.0	19.5
137686 1999 XA_{52}	16.2	X	68.89109	90.76862	285.89041	1.57836	0.2160528	0.24525974	2.5276593	20	—	—
137687 1999 XV_{55}	16.2	X	172.77362	187.91787	255.88186	7.86624	0.2136746	0.26459827	2.4029499	20	6 11.9	20.1
137688 1999 XF_{59}	16.4	X	244.17313	300.39772	62.19645	2.95162	0.1878490	0.26667091	2.3904828	20	5 4.5	19.9
137689 1999 XB_{60}	17.4	X	210.39704	237.31394	182.93405	0.73544	0.1790678	0.26748394	2.3856363	20	6 16.1	21.1
137690 1999 XW_{61}	16.7	X	304.03403	83.89348	30.49630	2.62256	0.1444462	0.28669492	2.2778374	20	—	—
137691 1999 XC_{62}	16.4	X	312.11171	240.23999	120.70380	1.73760	0.2203134	0.27637362	2.3342014	20	8 9.6	17.7
137692 1999 XU_{62}	16.2	X	278.73841	336.78755	60.23081	5.24451	0.1056090	0.22602531	2.6690989	20	8 16.2	19.6
137693 1999 XG_{63}	17.3	X	247.72271	332.90043	77.31430	2.63181	0.1794607	0.27143644	2.3624209	20	7 12.9	20.4
137694 1999 XW_{64}	17.0	X	305.93777	164.06127	235.86239	2.35088	0.1711909	0.27834966	2.3231411	20	10 6.3	18.9
137695 1999 XT_{68}	16.7	X	54.32295	264.38388	154.93695	0.90009	0.2043245	0.29466660	2.2365680	20	—	—
137696 1999 XA_{69}	16.7	X	117.43490	235.29704	246.14846	1.69440	0.1515311	0.26077251	2.4263950	20	6 4.3	20.1
137697 1999 XM_{69}	16.7	X	274.87141	157.75234	255.43468	5.41429	0.1932746	0.27508070	2.3415097	20	8 19.4	19.2
137698 1999 XR_{69}	16.5	X	228.14828	325.17579	81.74218	6.25345	0.1451370	0.26795179	2.3828586	20	6 19.4	20.0
137699 1999 XE_{72}	15.7	X	216.56859	6.16664	80.27283	10.80485	0.1413592	0.27012882	2.3700387	20	8 2.2	19.2
137700 1999 XV_{72}	16.8	X	215.81851	187.72551	181.03837	0.91400	0.1693823	0.26262024	2.4150006	20	4 16.2	20.6
137701 1999 XR_{73}	16.3	X	84.76485	301.49824	81.98833	3.96498	0.1789189	0.29472707	2.2362621	20	—	—
137702 1999 XZ_{75}	15.7	X	29.39987	166.90539	244.54359	3.03037	0.1608455	0.28974574	2.2618198	20	—	—
137703 1999 XE_{78}	16.0	X	219.20462	28.96898	69.17684	3.01328	0.1778829	0.27210172	2.3585686	20	8 16.3	19.5
137704 1999 XV_{78}	16.4	X	137.78210	234.06596	83.50244	6.75925	0.2128422	0.29481363	2.2358243	20	—	—
137705 1999 XL_{81}	16.4	X	215.55476	330.22625	85.83419	6.54200	0.0703249	0.26640056	2.3920998	20	6 24.4	19.6
137706 1999 XB_{83}	16.7	X	260.44110	305.55097	96.91953	3.37844	0.2160776	0.27113032	2.3641988	20	7 12.5	19.6
137707 1999 XJ_{83}	15.8	X	254.96405	330.61754	87.02973	3.25881	0.1893225	0.27149391	2.3620875	20	7 31.6	18.7
137708 1999 XK_{89}	16.4	X	318.18404	337.80938	99.25750	6.93391	0.0791828	0.28136468	2.3065152	20	12 29.8	18.6
137709 1999 XX_{89}	15.9	X	182.85222	144.63363	258.34723	4.83696	0.2079262	0.26056998	2.4276522	20	4 28.4	20.0
137710 1999 XH_{93}	15.5	X	256.65078	341.08725	105.31381	5.84333	0.2086737	0.27380619	2.3487703	20	9 12.2	18.3
137711 1999 XJ_{96}	15.7	X	312.50317	135.15599	271.25079	3.13234	0.1643948	0.27975298	2.3153655	20	11 2.1	17.4
137712 1999 XU_{96}	16.8	X	8.16420	39.38202	24.68935	1.72316	0.2077295	0.28884869	2.2665003	20	—	—
137713 1999 XX_{96}	15.9	X	233.26982	9.27719	72.29739	9.92118	0.1269894	0.27213846	2.3583564	20	8 19.3	19.2
137714 1999 XY_{96}	16.5	X	246.59161	336.07902	69.81307	8.43592	0.1946768	0.27054188	2.3676257	20	7 3.4	19.8
137715 1999 XA_{98}	15.8	X	229.71382	1.22864	75.52688	2.85018	0.1745037	0.27085874	2.3657789	20	7 29.6	19.3
137716 1999 XG_{98}	16.4	X	218.75140	328.05503	76.38651	3.19093	0.2073102	0.26675352	2.3899892	20	6 1.6	20.0
137717 1999 XT_{101}	16.1	X	232.64918	91.59196	326.76937	2.55360	0.2234570	0.26841431	2.3801205	20	7 2.1	19.6
137718 1999 XA_{102}	16.2	X	265.55616	118.57272	302.72422	3.51109	0.2246905	0.27304022	2.3531609	20	8 13.5	18.9
137719 1999 XS_{102}	16.7	X	174.56231	3.27676	68.25079	3.47785	0.1904156	0.26206243	2.4184264	20	5 28.5	20.7
137720 1999 XU_{102}	16.1	X	107.41735	56.84736	58.05843	3.11531	0.1624412	0.25703545	2.4498568	20	5 16.3	19.4
137721 1999 XW_{103}	16.4	X	253.70522	345.28718	70.80049	4.01906	0.1760489	0.27056929	2.3674658	20	7 30.0	19.4
137722 1999 XN_{104}	16.0	X	20.21920	119.64761	264.86811	23.56322	0.3028765	0.28732794	2.2744906	20	—	—
137723 1999 XR_{107}	15.8	X	256.08119	30.51838	36.01095	7.70800	0.1947981	0.27553983	2.3389079	20	8 17.5	18.9
137724 1999 XW_{111}	16.8	X	287.03714	356.46747	58.06171	3.62138	0.1416927	0.27717570	2.3296961	20	9 26.8	19.1
137725 1999 XY_{111}	16.9	X	242.12252	102.23723	307.40740	0.66688	0.1822118	0.27061231	2.3672149	20	7 4.9	20.2
137726 1999 XL_{115}	16.4	X	42.89702	158.37914	263.86326	5.66415	0.1715390	0.29403729	2.2397581	20	—	—
137727 1999 XG_{117}	15.9	X	127.45544	56.44049	282.56929	4.94152	0.2125145	0.29807837	2.2194690	20	—	—
137728 1999 XP_{117}	16.5	X	298.67064	337.02785	29.34498	7.25014	0.1804933	0.27517727	2.3409619	20	7 28.9	18.9
137729 1999 XW_{118}	17.0	X	273.37776	336.19596	56.24972	3.32351	0.2268805	0.27418823	2.3465880	20	7 14.6	19.7
137730 1999 XR_{121}	16.4	X	343.44974	351.50579	23.75158	3.42191	0.1642354	0.28134138	2.3066426	20	11 21.6	18.3
137731 1999 XW_{121}	16.1	X	336.42405	71.93152	304.59530	5.48104	0.1514471	0.28175855	2.3043652	20	11 5.9	18.2
137732 1999 XY_{121}	16.5	X	319.27602	99.69607	304.65183	4.76721	0.1574360	0.28210347	2.3024865	20	11 14.5	18.4
137733 1999 XG_{122}	14.9	X	111.39413	269.50309	253.93672	21.22925	0.1885442	0.26725988	2.3869695	20	7 21.0	18.9
137734 1999 XC_{123}	15.9	X	317.86853	63.56069	303.17780	6.34381	0.1443024	0.27768859	2.3268266	20	9 7.8	18.1
137735 1999 XF_{124}	15.9	X	206.50163	138.39425	334.62537	4.61691	0.1875127	0.27287082	2.3541347	20	8 21.1	19.3
137736 1999 XX_{125}	16.2	X	175.20556	60.82114	19.12079	6.27956	0.1044545	0.26540137	2.3980999	20	6 7.6	19.8
137737 1999 XD_{128}	17.1	X	238.91845	26.75122	46.72606	2.85148	0.1810732	0.27233639	2.3572136	20	8 4.4	20.3
137738 1999 XK_{130}	15.7	X	78.19033	97.52895	48.93941	9.09407	0.1737678	0.25797633	2.4438965	20	5 22.9	18.6
137739 1999 XO_{130}	15.9	X	97.08980	126.23578	39.92572	10.06429	0.2303804	0.26274088	2.4142614	20	7 23.9	19.7
137740 1999 XN_{131}	16.7	X	285.05583	307.88911	64.87430	7.70827	0.1481813	0.27239908	2.3568519	20	7 18.0	19.4
137741 1999 XA_{135}	15.3	X	142.28844	87.27139	90.19700	24.43554	0.2027666	0.27010224	2.3701942	20	9 27.3	19.8
137742 1999 XH_{136}	15.5	X	241.23896	65.49967	36.90809	23.62760	0.2572319	0.27204235	2.3589118	20	9 18.7	19.2
137743 1999 XE_{138}	16.9	X	223.88441	168.43457	239.43866	6.30735	0.1037918	0.26848512	2.3797020	20	6 19.8	20.3
137744 1999 XU_{138}	16.2	X	177.69226	47.29642	93.57853	7.58174	0.0546183	0.26923108	2.3753043	20	9 8.5	19.5
137745 1999 XY_{141}	15.3	X	124.60433	235.68849	270.57195	21.85939	0.2867864	0.26360986	2.4089528	20	7 19.7	19.7
137746 1999 XP_{153}	16.5	X	283.81686	226.43364	243.25773	5.58496	0.1943816	0.27900878	2.3194809	20	12 7.6	18.0
137747 1999 XC_{154}	15.8	X	159.68124	34.84577	108.81850	5.80912	0.1675139	0.26809738	2.3819959	20	8 18.1	19.6
137748 1999 XQ_{154}	16.7	X	147.73442	334.90731	132.66713	2.96966	0.1564943	0.26326994	2.4110258	20	6 18.3	20.5
137749 1999 XR_{154}	16.7	X	281.16084	316.84689	109.52880	4.54612	0.2119533	0.27737139	2.3286003	20	9 22.9	18.8
137750 1999 XB_{157}	15.9	X	340.86475	244.81939	230.92848	5.47271	0.1001324	0.29000711	2.2604607	20	—	—
137751 1999 XB_{159}	16.3	X	1.39333	290.60914	224.70463	3.42357	0.0857302	0.29702784	2.2246991	20	1 7.4	18.5
137752 1999 XU_{160}	16.7	X	177.25623	207.24643	260.22111	7.41827	0.2269410	0.26492957	2.4009462	20	7 14.8	20.8
137753 1999 XP_{161}	16.0	X	195.97454	93.48127	57.06528	6.54569	0.1364523	0.27534781	2.3399952	20	10 6.1	19.4
137754 1999 XY_{162}	16.0	X	211.04347	138.88824	111.90407	7.84617	0.1083510	0.23955236	2.5676496	20	—	—
137755 1999 XB_{164}	16.6	X	223.76935	281.37621	163.81794	2.29308	0.1714300	0.27100849	2.3649073	20	8 2.6	20.0
137756 1999 XZ_{166}	15.4	X	333.59158	123.14032	310.41532	5.77942	0.1246980	0.28593523	2.2818702	20	—	—
137757 1999 XK_{171}	16.5	X	225.47199	71.64153	342.08912	2.55650	0.1929662	0.26694376	2.3888536	20	6 21.3	20.0
137758 1999 XH_{173}	15.3	X	324.92348	24.58860	35.70421	5.67737	0.1444015	0.28040459	2.3117772	20	12 21.7	17.3
137759 1999 XM_{173}	16.1	X	322.57912	30.04182	61.66242	6.10832	0.1539364	0.28330989	2.2959454	20	—	—
137760 1999 XF_{176}	15.9	X	344.09015	341.41309	67.24102	7.15408	0.2115097	0.28170840	2.3046387	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137761 1999 XG_{177}	14.8	X	24.01200	65.07161	74.13219	12.93485	0.0533794	0.24695551	2.5160749	20	2 7.3	18.0
137762 1999 XM_{179}	15.8	X	83.51729	46.34440	68.77702	8.64824	0.1579906	0.25211076	2.4816573	20	4 18.4	18.9
137763 1999 XW_{179}	16.0	X	313.65677	326.00051	52.48448	4.59530	0.1606154	0.27411009	2.3470339	20	9 22.0	17.8
137764 1999 XX_{179}	16.1	X	185.87307	100.48063	342.26725	5.96167	0.0808783	0.26356680	2.4092151	20	6 25.0	19.6
137765 1999 XT_{182}	15.9	X	342.14715	33.68933	9.55375	7.37006	0.1679782	0.28363886	2.2941698	20	—	—
137766 1999 XM_{184}	15.2	X	69.57950	29.27121	41.48878	8.98066	0.2009658	0.20161431	2.8804156	20	2 10.8	18.7
137767 1999 XG_{186}	16.1	X	14.79535	32.54177	336.93091	5.12728	0.1820664	0.28423822	2.2909436	20	—	—
137768 1999 XU_{187}	15.3	X	47.59218	21.31314	341.91134	6.33991	0.2218507	0.28831419	2.2693007	20	—	—
137769 1999 XU_{189}	16.1	X	255.17762	109.05960	301.07787	8.74022	0.2223990	0.27195089	2.3594407	20	7 16.1	19.3
137770 1999 XD_{195}	15.7	X	101.51835	178.56314	354.83744	6.71274	0.0509445	0.26451750	2.4034390	20	7 15.8	18.9
137771 1999 XS_{196}	16.7	X	236.65538	351.02810	29.15508	5.34220	0.2369201	0.26619125	2.3933536	20	5 14.5	20.5
137772 1999 XZ_{197}	15.6	X	273.06559	60.60402	339.14056	6.71463	0.1128363	0.27098710	2.3650318	20	8 14.2	18.2
137773 1999 XM_{216}	16.8	X	251.78432	248.57581	105.02797	5.69956	0.1568026	0.26230017	2.4169648	20	5 5.9	20.3
137774 1999 XP_{217}	17.1	X	249.09059	111.91165	315.12125	0.73226	0.1619502	0.27051566	2.3677787	20	8 9.5	19.9
137775 1999 XH_{218}	16.4	X	263.26405	142.07196	93.53789	3.60101	0.1235133	0.24378091	2.5378713	20	—	—
137776 1999 XJ_{218}	16.8	X	144.93263	359.92717	85.97384	2.24389	0.1543254	0.25867291	2.4395071	20	5 18.0	20.5
137777 1999 XN_{218}	16.1	X	243.06238	328.10592	92.54545	4.52638	0.1838747	0.26919795	2.3754992	20	7 21.3	19.2
137778 1999 XL_{220}	16.3	X	208.56924	102.77415	340.53683	10.19508	0.1256266	0.26685452	2.3893862	20	7 21.5	19.8
137779 1999 XL_{221}	16.4	X	308.01922	54.58643	347.07348	4.97691	0.1642956	0.27912121	2.3188580	20	10 13.8	18.2
137780 1999 XO_{223}	16.5	X	134.91170	247.62211	278.91992	5.81388	0.1333519	0.26585739	2.3953568	20	8 19.2	20.1
137781 1999 XX_{224}	15.7	X	265.65937	47.00717	290.34041	8.15796	0.2603158	0.26275138	2.4141970	20	4 11.3	19.5
137782 1999 XF_{226}	16.0	X	220.38622	130.53505	298.14826	2.58213	0.1364569	0.26677673	2.3898506	20	7 11.3	19.2
137783 1999 XQ_{226}	16.8	X	256.98501	99.36689	323.68973	1.77128	0.1689518	0.27126042	2.3634428	20	8 13.5	19.6
137784 1999 XV_{228}	16.8	X	259.02094	107.80462	321.50809	1.93927	0.1529655	0.27223650	2.3577901	20	8 27.9	19.7
137785 1999 XB_{234}	16.5	X	21.39839	252.19475	105.44533	8.10320	0.2414112	0.28572995	2.2829630	20	—	—
137786 1999 XE_{237}	17.0	X	194.26616	89.40393	41.21571	2.56393	0.1662890	0.27301493	2.3533063	20	9 3.7	20.5
137787 1999 XV_{237}	15.3	X	31.95824	3.79505	59.89565	6.80825	0.1218552	0.19543022	2.9408637	20	—	—
137788 1999 XP_{238}	16.0	X	37.52886	282.86288	256.04048	5.36186	0.0899534	0.25972063	2.4329420	20	4 19.3	18.7
137789 1999 XF_{239}	16.2	X	331.35585	137.88699	288.44306	4.95275	0.1387829	0.28531172	2.2851934	20	—	—
137790 1999 XJ_{239}	16.8	X	273.10139	3.06883	24.53923	8.39955	0.2529618	0.27384000	2.3485769	20	7 2.9	19.9
137791 1999 XR_{242}	15.3	X	348.14440	125.00880	334.32894	13.67740	0.1276475	0.23901740	2.5714793	20	—	—
137792 1999 XP_{245}	16.8	X	330.18228	242.01948	152.20803	4.32904	0.2286916	0.28212397	2.3023750	20	12 3.1	18.2
137793 1999 XU_{250}	16.4	X	166.18392	66.01989	79.50838	3.35599	0.1052002	0.27304827	2.3531147	20	8 28.6	19.9
137794 1999 XK_{252}	16.5	X	265.10644	273.35062	103.93296	5.04935	0.2074683	0.26790835	2.3831162	20	6 14.2	19.6
137795 1999 XM_{252}	16.6	X	310.48324	76.55239	218.72237	3.96798	0.2123931	0.26774801	2.3840675	20	4 21.3	18.9
137796 1999 XB_{254}	17.0	X	143.84106	294.51097	246.77062	0.72001	0.1269928	0.26894233	2.3770041	20	9 18.8	20.4
137797 1999 XS_{255}	16.3	X	216.45951	322.94195	96.70642	8.01772	0.1277167	0.26515882	2.3995621	20	6 25.3	19.7
137798 1999 XH_{256}	16.6	X	112.07488	210.06152	279.31417	3.00848	0.1523048	0.26185539	2.4197010	20	6 8.9	20.1
137799 1999 YB	18.5	X	41.71271	192.74087	30.98838	6.78997	0.0748182	0.64895535	1.3212738	20	8 25.3	17.8
137800 1999 YE	15.2	X	326.33812	355.69578	85.91861	26.02488	0.2199590	0.28694063	2.2765368	20	—	—
137801 1999 YR	15.2	X	328.82403	179.39778	252.99828	23.75528	0.2446872	0.28189262	2.3036345	20	—	—
137802 1999 YT	16.9	X	268.04239	272.61083	116.42468	31.58499	0.3519140	0.41621891	1.7765939	20	6 22.1	19.1
137803 1999 YR_{1}	16.4	X	267.91248	202.41090	221.60556	2.35510	0.1833649	0.27443000	2.3452096	20	8 27.8	19.2
137804 1999 YQ_{2}	16.7	X	210.75873	194.90143	304.10423	1.74654	0.2108911	0.27271790	2.3550147	20	9 25.1	20.3
137805 1999 YK_{5}	16.6	X	162.75837	292.84896	349.55335	16.74636	0.5583230	1.30488847	0.8293804	20	—	—
137806 1999 YW_{6}	15.6	X	320.43031	144.08608	300.67809	23.59556	0.2186424	0.28361912	2.2942762	20	—	—
137807 1999 YE_{7}	15.8	X	252.68647	339.79846	50.17354	14.29608	0.2481877	0.26901143	2.3765971	20	6 9.9	19.5
137808 1999 YU_{7}	16.8	X	11.22455	341.72142	101.10102	5.94539	0.1241311	0.29167592	2.2518304	20	—	—
137809 1999 YL_{8}	16.6	X	252.51137	125.71086	102.90170	6.00923	0.0561397	0.29023646	2.2592697	20	—	—
137810 1999 YS_{8}	16.3	X	12.75701	316.74050	100.17761	5.01409	0.0966399	0.28534737	2.2850031	20	—	—
137811 1999 YD_{14}	16.4	X	250.15578	263.95755	129.61085	3.35691	0.2280860	0.26665480	2.3905791	20	6 16.4	19.9
137812 1999 YU_{14}	16.7	X	224.29450	122.25534	306.79899	4.02782	0.1227366	0.26674938	2.3900140	20	7 17.9	20.1
137813 1999 YB_{16}	16.7	X	240.92719	153.66594	144.96180	2.89291	0.2010302	0.25802842	2.4435676	20	2 10.4	20.8
137814 1999 YJ_{17}	16.1	X	176.52546	158.89296	293.30580	5.25501	0.0892193	0.26173070	2.4204695	20	6 26.7	19.6
137815 1999 YS_{23}	17.3	X	215.81277	221.17452	175.86347	2.28522	0.1906063	0.26677188	2.3898796	20	5 21.7	21.0
137816 1999 YD_{25}	14.0	X	286.65169	108.29380	255.21679	4.15838	0.1966615	0.12567575	3.9473144	20	6 21.5	19.3
137817 2000 AE_{1}	16.8	X	198.02093	192.82108	222.63917	0.52926	0.1752855	0.26136855	2.4227048	20	5 29.2	20.7
137818 2000 AR_{3}	15.8	X	192.21609	110.18649	302.85866	12.95665	0.1632822	0.26265776	2.4147707	20	5 18.1	19.9
137819 2000 AD_{4}	16.4	X	318.10932	95.70838	293.87434	4.40013	0.2702668	0.27773782	2.3265516	20	10 13.0	17.4
137820 2000 AL_{6}	16.6	X	149.09288	112.53853	44.51534	0.91689	0.1557787	0.26612392	2.3937573	20	8 24.3	20.3
137821 2000 AO_{7}	16.4	X	273.03748	352.85449	52.56944	5.10638	0.2001723	0.27349077	2.3505758	20	8 8.6	19.2
137822 2000 AB_{13}	16.5	X	289.13546	20.31765	58.59787	2.51533	0.1886778	0.27938980	2.3173716	20	11 1.0	18.2
137823 2000 AN_{14}	16.8	X	241.43371	166.61393	280.22397	1.85527	0.1389304	0.27339260	2.3511385	20	8 30.3	19.7
137824 2000 AT_{16}	16.3	X	257.12843	352.16976	88.69767	4.73194	0.1995656	0.27459127	2.3442912	20	9 6.3	19.2
137825 2000 AX_{17}	16.0	X	107.75760	59.27820	295.64331	1.93890	0.1925580	0.29330338	2.2434928	20	—	—
137826 2000 AX_{21}	15.7	X	260.43006	314.71607	46.14577	5.63595	0.2539214	0.26902004	2.3765464	20	5 11.1	19.0
137827 2000 AY_{21}	15.9	X	108.06884	213.99532	309.73044	1.77373	0.1261182	0.26416453	2.4055795	20	7 18.6	19.3
137828 2000 AC_{22}	16.3	X	349.61177	156.70595	274.75280	6.51133	0.0723527	0.28616863	2.2806293	20	—	—
137829 2000 AC_{24}	16.5	X	55.05539	121.06657	300.00355	6.68033	0.1125089	0.29282278	2.2459469	20	—	—
137830 2000 AP_{24}	15.7	X	76.88252	80.44917	88.46212	2.37311	0.1290566	0.25899421	2.4374891	20	6 15.6	18.7
137831 2000 AM_{25}	16.3	X	91.17577	147.75240	359.90057	2.36580	0.1311574	0.25842860	2.4410443	20	6 5.1	19.4
137832 2000 AW_{25}	16.1	X	146.94469	0.71933	75.36077	3.56185	0.1708438	0.25856895	2.4401609	20	5 8.7	19.9
137833 2000 AZ_{25}	16.7	X	162.08629	119.34697	314.05198	1.22144	0.1908556	0.26047467	2.4282443	20	5 19.4	20.7
137834 2000 AM_{26}	16.8	X	181.91579	77.00045	358.10061	1.50458	0.1628158	0.26298657	2.4127575	20	6 8.7	20.7
137835 2000 AX_{27}	15.7	X	123.40849	51.52274	305.16193	8.17306	0.1863171	0.24616563	2.5214543	20	1 7.1	19.1
137836 2000 AZ_{27}	16.6	X	183.69027	56.73701	20.75846	2.30956	0.1869238	0.26339579	2.4102578	20	6 13.2	20.4
137837 2000 AX_{28}	15.3	X	318.85831	223.32473	324.94485	6.90594	0.2002934	0.24408168	2.5357860	20	—	—
137838 2000 AD_{29}	16.4	X	86.16767	50.94271	46.35135	3.04653	0.1518379	0.25208563	2.4818221	20	3 25.2	19.3
137839 2000 AM_{32}	16.0	X	102.61598	89.57258	81.68234	3.15153	0.1377707	0.26128917	2.4231955	20	7 24.1	19.3
137840 2000 AX_{32}	15.9	X	265.18765	91.19384	332.77520	3.13847	0.1525646	0.27195316	2.3594275	20	8 29.6	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137841 2000 AN_{35}	16.5	X	140.97957	20.93197	93.05869	2.81009	0.1018483	0.26167419	2.4208179	20	6 16.2	19.9
137842 2000 AK_{37}	16.0	X	31.03095	269.92317	92.43353	6.72576	0.1565514	0.28238102	2.3009775	20	—	—
137843 2000 AM_{37}	15.1	X	313.31741	265.82510	292.44961	10.87282	0.1192227	0.24564512	2.5250149	20	1 2.9	18.2
137844 2000 AS_{37}	16.0	X	274.31728	237.29304	302.99639	6.24525	0.0613133	0.28705976	2.2759069	20	—	—
137845 2000 AT_{37}	16.9	X	235.06181	78.96773	354.16434	2.01967	0.1915966	0.26950047	2.3737211	20	7 28.4	20.4
137846 2000 AT_{41}	15.6	X	212.07076	87.68365	323.77638	12.11589	0.2629924	0.26401124	2.4065106	20	5 30.9	20.1
137847 2000 AT_{43}	16.6	X	234.17812	295.09884	104.38801	2.97131	0.1668828	0.26562437	2.3967576	20	6 13.9	20.0
137848 2000 AT_{45}	16.4	X	250.37574	165.96277	258.62074	2.02540	0.1596474	0.27210899	2.3585267	20	8 7.5	19.5
137849 2000 AY_{50}	16.9	X	85.60208	74.69334	98.50716	1.90870	0.1146661	0.25935182	2.4352479	20	7 1.5	19.8
137850 2000 AL_{52}	15.5	X	4.38958	101.98646	349.10074	4.85545	0.1368834	0.29290490	2.2455271	20	—	—
137851 2000 AR_{52}	16.5	X	347.31514	186.53893	250.23748	2.71875	0.2097136	0.28891920	2.2661315	20	—	—
137852 2000 AW_{52}	16.2	X	329.43683	60.04436	329.06156	4.53736	0.1520033	0.28208376	2.3025938	20	11 11.8	18.1
137853 2000 AB_{53}	15.7	X	352.46636	156.53674	266.31796	5.04588	0.1869240	0.28763490	2.2728721	20	—	—
137854 2000 AG_{54}	16.6	X	145.75906	140.58425	294.12023	10.43414	0.2384014	0.25795760	2.4440148	20	5 6.2	20.9
137855 2000 AQ_{56}	15.4	X	152.66294	1.70201	102.45732	7.16693	0.0649540	0.26039419	2.4287446	20	6 14.5	18.7
137856 2000 AP_{57}	16.2	X	359.29161	58.19605	96.98501	0.18432	0.1279293	0.24527598	2.5275478	20	1 11.4	19.0
137857 2000 AT_{59}	15.8	X	73.15606	177.42744	338.16009	2.03914	0.1342985	0.25505550	2.4625190	20	5 22.2	18.6
137858 2000 AX_{59}	16.3	X	304.86031	1.27729	84.95216	2.71453	0.1607859	0.27936435	2.3175124	20	12 20.2	17.9
137859 2000 AX_{61}	15.6	X	158.16953	138.22472	317.35415	5.98460	0.0781508	0.25951693	2.4342149	20	6 9.2	19.2
137860 2000 AK_{65}	15.5	X	17.72786	40.10416	115.85629	14.04384	0.1522591	0.24684877	2.5168002	20	2 15.9	17.9
137861 2000 AA_{66}	15.9	X	117.73657	346.56441	100.68289	7.41465	0.1355066	0.25318615	2.4746251	20	4 21.6	19.4
137862 2000 AP_{66}	16.3	X	325.55852	31.45607	81.13117	4.14217	0.1992049	0.28411728	2.2915937	20	—	—
137863 2000 AQ_{66}	16.0	X	195.19422	24.14321	97.12915	6.13015	0.1798451	0.26710328	2.3879024	20	8 22.8	19.7
137864 2000 AU_{78}	15.9	X	89.90425	3.84054	127.61492	2.77001	0.1605577	0.25659422	2.4526645	20	5 17.6	19.0
137865 2000 AJ_{82}	16.7	X	274.39873	294.79830	122.72575	4.71088	0.2281572	0.27417035	2.3466900	20	8 22.7	19.1
137866 2000 AP_{82}	16.5	X	211.21089	282.05573	135.55452	1.81331	0.1690569	0.26513678	2.3996951	20	6 14.1	20.1
137867 2000 AO_{83}	16.9	X	131.27550	207.03546	250.05094	0.73495	0.1481045	0.25832061	2.4417246	20	5 17.5	20.5
137868 2000 AA_{84}	15.9	X	78.48901	57.94434	110.76479	4.21481	0.1174280	0.25894139	2.4378205	20	6 15.9	18.9
137869 2000 AA_{86}	16.5	X	75.96487	322.67968	203.34373	1.69483	0.1510327	0.25706483	2.4496701	20	6 13.8	19.4
137870 2000 AE_{86}	16.5	X	151.17675	13.22044	125.63782	2.86869	0.1595299	0.26421916	2.4052479	20	8 2.1	20.1
137871 2000 AO_{86}	16.4	X	142.01408	311.30497	161.90413	1.14647	0.1440469	0.26041500	2.4286153	20	6 19.1	20.1
137872 2000 AH_{87}	15.8	X	252.73720	46.87360	115.42327	12.60503	0.1015773	0.23238992	2.6201402	20	12 24.7	19.2
137873 2000 AC_{91}	16.5	X	220.90684	287.98662	130.84561	5.29092	0.1830125	0.26515062	2.3996116	20	6 24.3	20.2
137874 2000 AV_{93}	16.1	X	225.25275	61.30502	88.27793	1.34052	0.1553955	0.27799769	2.3251016	20	11 3.5	19.1
137875 2000 AE_{98}	15.4	X	40.15933	9.31221	87.06955	5.82909	0.2171525	0.24245327	2.5471275	20	1 4.8	17.2
137876 2000 AR_{104}	16.2	X	185.55297	335.05207	125.79555	5.41771	0.1446133	0.26882908	2.3776717	20	7 16.8	19.8
137877 2000 AB_{105}	16.2	X	210.18012	161.14215	221.06030	6.47923	0.1905494	0.26346996	2.4098054	20	4 26.9	20.1
137878 2000 AS_{106}	16.6	X	160.16974	309.38476	139.41008	3.18306	0.1525601	0.26201584	2.4187131	20	6 6.0	20.3
137879 2000 AJ_{114}	12.0	X	256.68804	199.93570	268.36120	12.36478	0.0693398	0.08151044	5.2681794	20	9 24.3	19.2
137880 2000 AA_{115}	16.1	X	163.00007	266.41571	250.35931	5.68891	0.1785975	0.26787350	2.3833229	20	9 2.7	20.0
137881 2000 AR_{119}	15.5	X	127.56534	222.01819	257.87605	7.74504	0.2264216	0.25879026	2.4387696	20	6 19.3	19.5
137882 2000 AF_{120}	15.7	X	187.86856	117.16060	289.74433	5.22498	0.1151440	0.25881920	2.4385878	20	5 7.5	19.5
137883 2000 AP_{127}	16.1	X	310.58921	166.28873	289.19871	3.38839	0.1298725	0.28045646	2.3114921	20	—	—
137884 2000 AG_{128}	15.1	X	26.23889	159.73063	305.93800	21.01826	0.0781781	0.24221929	2.5487675	20	—	—
137885 2000 AG_{129}	16.5	X	52.51444	305.63153	129.35244	7.94360	0.0705396	0.29135425	2.2534874	20	—	—
137886 2000 AP_{133}	16.2	X	202.76833	172.09913	277.57752	14.05721	0.1070059	0.26759083	2.3850010	20	7 20.3	19.6
137887 2000 AU_{133}	16.4	X	235.84552	3.36178	89.74546	4.52413	0.1394448	0.27229263	2.3574661	20	9 3.8	19.5
137888 2000 AG_{135}	16.3	X	154.69926	114.15844	27.31037	4.91574	0.1138595	0.26612989	2.3937215	20	8 10.5	19.8
137889 2000 AO_{136}	15.2	X	259.48893	275.92705	323.61844	11.11250	0.1605707	0.24223020	2.5486910	20	—	—
137890 2000 AZ_{146}	15.8	X	302.47456	18.86022	40.49950	6.03713	0.2411072	0.27675774	2.3320411	20	10 25.1	17.1
137891 2000 AJ_{149}	14.9	X	6.24527	105.05281	113.49954	13.98961	0.1688526	0.25836672	2.4414341	20	5 1.8	17.4
137892 2000 AR_{154}	15.7	X	328.40156	82.50488	284.41972	8.21376	0.2309453	0.27973956	2.3154396	20	9 30.9	17.2
137893 2000 AO_{157}	16.2	X	230.55874	205.79795	278.71221	3.84924	0.2043510	0.27472741	2.3435167	20	9 26.9	19.6
137894 2000 AZ_{158}	16.1	X	186.16007	156.78481	319.57017	7.05624	0.1141385	0.26711955	2.3878054	20	8 8.9	19.7
137895 2000 AS_{164}	16.7	X	198.05032	282.45607	148.00757	2.44036	0.1921034	0.26350761	2.4095759	20	6 17.3	20.6
137896 2000 AS_{167}	15.3	X	304.64555	312.63090	218.08377	9.90608	0.1353353	0.23999862	2.5644657	20	—	—
137897 2000 AM_{169}	16.1	X	187.69502	149.15985	210.43276	7.92509	0.1428909	0.25777434	2.4451730	20	3 7.3	20.0
137898 2000 AK_{172}	16.2	X	140.81222	251.66623	215.40190	7.57230	0.1990872	0.26162292	2.4211342	20	6 13.3	20.1
137899 2000 AR_{187}	15.0	X	240.36480	73.46204	104.68083	23.72299	0.2628553	0.28374185	2.2936147	20	12 19.3	17.6
137900 2000 AQ_{192}	15.4	X	129.98936	297.94757	176.55827	10.12878	0.1806332	0.25934463	2.4352929	20	6 11.9	19.3
137901 2000 AD_{204}	15.2	X	308.16628	209.49047	305.06882	7.64060	0.1134387	0.23786247	2.5797964	20	—	—
137902 2000 AQ_{213}	16.1	X	187.39273	174.83808	102.58057	3.63697	0.1174357	0.24003048	2.5642387	20	—	—
137903 2000 AT_{214}	16.3	X	180.03997	21.30326	83.09480	1.67927	0.0509813	0.26682751	2.3895474	20	7 18.9	19.6
137904 2000 AU_{217}	17.1	X	211.21315	100.45623	282.35162	1.80942	0.2098667	0.26205428	2.4184765	20	4 27.4	21.1
137905 2000 AT_{225}	16.1	X	193.47106	2.02879	298.13472	3.33473	0.0573191	0.24568116	2.5247680	20	—	—
137906 2000 AL_{227}	16.0	X	252.89229	78.45514	320.12759	5.92782	0.1040585	0.26337606	2.4103781	20	7 14.4	19.1
137907 2000 AT_{231}	16.9	X	213.28737	345.69002	91.49809	3.48884	0.1799375	0.26672639	2.3901513	20	7 11.5	20.4
137908 2000 AT_{232}	16.8	X	231.56151	319.07521	111.76920	7.46281	0.2429683	0.26816213	2.3816124	20	7 15.4	20.4
137909 2000 AN_{235}	16.0	X	50.24491	239.61562	288.45547	3.88336	0.1323045	0.25418825	2.4681170	20	5 1.6	18.6
137910 2000 AP_{238}	16.3	X	243.16101	35.89175	62.27981	6.14972	0.1858724	0.27160031	2.3614706	20	9 14.6	19.4
137911 2000 AB_{246}	17.6	X	314.43786	312.29495	29.38988	3.75785	0.4941852	0.28176456	2.3043325	20	5 12.8	19.6
137912 2000 AK_{251}	16.7	X	271.27456	222.38817	288.65281	4.22094	0.1103422	0.28284338	2.2984693	20	—	—
137913 2000 BH_{3}	14.6	X	330.37202	73.91430	100.50667	13.65102	0.0636728	0.24342424	2.5403497	20	1 2.8	17.5
137914 2000 BU_{7}	16.1	X	74.92776	187.96827	340.80602	5.74490	0.1558938	0.25798617	2.4438343	20	6 16.9	19.2
137915 2000 BK_{8}	16.3	X	132.64008	114.75300	51.30235	5.56260	0.0899848	0.26516149	2.3995460	20	8 18.8	19.8
137916 2000 BM_{10}	16.5	X	199.85987	136.98109	109.97785	2.94001	0.0620266	0.28515714	2.2860192	20	—	—
137917 2000 BW_{12}	16.5	X	236.63237	265.63925	332.47336	3.88247	0.1517402	0.23683951	2.5872195	20	—	—
137918 2000 BO_{13}	17.3	X	127.33635	195.71281	317.90207	3.93757	0.2430995	0.26160544	2.4212420	20	8 2.9	21.3
137919 2000 BD_{14}	14.6	X	262.52100	296.93870	331.66481	7.23620	0.1601257	0.24500211	2.5294310	20	1 30.0	18.5
137920 2000 BW_{16}	16.2	X	156.96943	101.56066	1.64620	1.62054	0.1503403	0.26178440	2.4201384	20	6 21.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
137921 2000 BV_{17}	16.1	X	219.83469	126.57627	315.36927	4.59747	0.1130527	0.26735899	2.3863796	20	7 31.5	19.2
137922 2000 BA_{18}	16.7	X	192.24097	108.56871	42.48484	3.39048	0.1733360	0.27113525	2.3641701	20	9 27.6	20.4
137923 2000 BF_{18}	16.3	X	97.88655	144.75570	40.70773	4.46941	0.1528817	0.26197574	2.4189599	20	8 10.2	19.7
137924 2000 BD_{19}	17.2	X	90.78085	324.33890	333.70603	25.73218	0.8950021	1.20121170	0.8764417	20	—	—
137925 2000 BJ_{19}	15.9	X	152.35950	175.50810	131.23002	31.11254	0.7638145	0.67125065	1.2918524	20	—	—
137926 2000 BS_{22}	16.1	X	317.16000	175.68364	351.62038	4.19296	0.1579123	0.23977468	2.5660621	20	—	—
137927 2000 BX_{23}	16.0	X	171.67062	52.17047	38.52857	6.82692	0.1094231	0.26161456	2.4211857	20	6 18.7	19.7
137928 2000 BO_{24}	15.9	X	89.17470	95.04454	25.51055	11.99456	0.1281126	0.25337109	2.4734208	20	4 24.2	18.9
137929 2000 BG_{26}	16.3	X	114.49906	128.90409	59.84109	2.89680	0.1380238	0.26382925	2.4076171	20	8 31.1	19.8
137930 2000 BN_{26}	16.0	X	128.91029	109.87893	42.67846	2.73335	0.1335238	0.26151114	2.4218241	20	7 28.1	19.6
137931 2000 BY_{26}	15.9	X	174.69075	109.02693	352.00456	2.40610	0.1531751	0.26210222	2.4181816	20	7 6.3	19.7
137932 2000 BS_{28}	16.6	X	162.99030	87.22259	88.69681	3.45960	0.1375084	0.26968566	2.3726343	20	10 3.3	20.2
137933 2000 BH_{32}	16.9	X	212.35687	138.86648	308.46808	2.37337	0.1595088	0.26723899	2.3870939	20	7 25.7	20.4
137934 2000 BO_{32}	15.7	X	282.86472	158.85539	298.41005	2.37701	0.0371635	0.22871384	2.6481409	20	11 18.3	19.0
137935 2000 BT_{32}	16.4	X	181.84519	299.53135	117.95122	1.98984	0.1772680	0.25998198	2.4313112	20	5 17.5	20.3
137936 2000 BB_{34}	16.2	X	302.35970	62.97167	327.82029	2.12598	0.2321384	0.27225145	2.3577038	20	9 2.9	17.8
137937 2000 BP_{34}	15.5	X	111.65330	57.18865	359.32102	4.56872	0.0128374	0.24637864	2.5200008	20	2 13.8	18.7
137938 2000 BK_{35}	16.0	X	244.32590	356.11388	59.93010	4.11458	0.1744126	0.26748556	2.3856267	20	7 17.9	19.4
137939 2000 BW_{35}	16.3	X	150.31628	92.49301	94.92735	4.72721	0.1377176	0.26970072	2.3725460	20	10 6.3	20.0
137940 2000 BQ_{37}	16.7	X	285.56804	44.18373	309.92094	1.13658	0.1659921	0.26541094	2.3980423	20	6 15.9	19.5
137941 2000 BQ_{42}	16.4	X	41.86726	291.56144	301.28775	0.43956	0.1399027	0.26008939	2.4306418	20	7 27.0	19.0
137942 2000 BB_{47}	15.7	X	235.54823	327.77623	111.05876	4.68245	0.0541177	0.26833465	2.3805915	20	8 25.8	18.7
137943 2000 BZ_{48}	16.9	X	203.50552	189.84655	294.28209	7.31980	0.1804344	0.27051991	2.3677539	20	8 29.9	20.5
137944 2000 BC_{49}	16.9	X	146.28359	215.63541	315.15387	1.67229	0.1498525	0.26697373	2.3886748	20	9 7.5	20.7
137945 2000 BF_{49}	16.8	X	175.81423	11.57605	128.36795	2.01676	0.1270811	0.26739309	2.3861767	20	8 29.0	20.2
137946 2000 BF_{51}	16.7	X	190.63572	146.90807	300.09568	4.55542	0.1911134	0.26500446	2.4004939	20	7 2.2	20.5
137947 2000 CD_{1}	16.6	X	182.64836	349.60099	148.36701	2.88776	0.1609449	0.26661431	2.3908211	20	8 31.6	20.2
137948 2000 CY_{3}	16.1	X	6.34335	148.20921	275.67677	3.70921	0.1291540	0.28629144	2.2799771	20	—	—
137949 2000 CV_{6}	16.3	X	223.68093	350.84529	83.96597	7.80077	0.0939474	0.26686926	2.3892981	20	7 29.8	19.6
137950 2000 CB_{7}	16.2	X	172.71867	135.99282	104.72160	7.99486	0.1808344	0.27828584	2.3234962	20	12 30.1	19.6
137951 2000 CG_{11}	15.9	X	237.82755	131.84087	272.36504	7.98648	0.1841312	0.26592316	2.3949619	20	6 22.3	19.2
137952 2000 CY_{11}	16.7	X	171.60218	245.56877	178.29276	2.27581	0.1837030	0.25941644	2.4348435	20	5 16.5	20.6
137953 2000 CG_{12}	15.5	X	11.38751	120.63214	271.93050	3.25236	0.1773697	0.28239528	2.3009001	20	—	—
137954 2000 CK_{13}	12.6	X	342.26904	262.35337	144.12034	5.70038	0.0430258	0.08344260	5.1865372	20	11 5.5	19.3
137955 2000 CD_{15}	16.5	X	332.31135	67.42162	327.34069	1.48350	0.2368242	0.27776069	2.3264240	20	12 7.2	17.8
137956 2000 CW_{17}	15.9	X	339.76225	82.68164	292.47155	2.36465	0.1799632	0.27534661	2.3400020	20	11 13.5	17.8
137957 2000 CZ_{17}	16.7	X	185.71050	317.75319	147.37865	3.42901	0.1281154	0.26451767	2.4034380	20	7 22.9	20.2
137958 2000 CX_{18}	16.3	X	193.22833	296.77852	137.20396	10.07987	0.2017439	0.26291638	2.4131868	20	6 17.9	20.4
137959 2000 CZ_{18}	15.4	X	317.95023	49.18842	162.24447	1.06987	0.0847125	0.24638565	2.5199530	20	1 30.5	18.6
137960 2000 CD_{19}	16.8	X	138.78287	326.58087	145.97496	1.63303	0.1425945	0.25908206	2.4369381	20	6 14.8	20.4
137961 2000 CO_{19}	15.9	X	132.06139	346.32077	165.24914	5.60573	0.1015905	0.26222395	2.4174332	20	7 26.2	19.4
137962 2000 CA_{22}	16.1	X	228.45709	67.84558	149.34568	5.37272	0.0638742	0.23485674	2.6017608	20	—	—
137963 2000 CB_{23}	15.6	X	273.61322	142.91385	264.37592	4.68372	0.1964326	0.27001909	2.3706807	20	8 8.4	18.5
137964 2000 CZ_{23}	15.0	X	319.66884	37.71576	166.29583	3.30718	0.0581766	0.24533745	2.5271256	20	1 26.8	18.2
137965 2000 CT_{24}	16.4	X	171.63332	239.39507	263.01690	1.44998	0.1487166	0.26613768	2.3936748	20	8 26.1	20.1
137966 2000 CZ_{24}	15.3	X	289.46419	133.38941	274.97610	4.40217	0.2253859	0.27270246	2.3551036	20	9 1.9	17.4
137967 2000 CS_{26}	15.3	X	302.98567	317.64557	251.28690	2.08633	0.0696765	0.24317627	2.5420763	20	1 10.4	18.7
137968 2000 CY_{31}	16.5	X	358.30057	344.87361	169.81576	4.66290	0.2092761	0.24353721	2.5395640	20	—	—
137969 2000 CA_{32}	16.7	X	162.79635	246.83626	224.61715	2.19334	0.1506610	0.26129060	2.4231866	20	7 7.7	20.5
137970 2000 CR_{33}	15.7	X	341.30825	162.99476	323.16922	13.95550	0.1238730	0.23835613	2.5762332	20	—	—
137971 2000 CQ_{39}	16.0	X	266.65692	284.81114	128.92455	7.57242	0.1922839	0.26985650	2.3716328	20	8 10.3	18.6
137972 2000 CB_{40}	16.8	X	35.22632	270.64463	153.44417	23.91986	0.0620777	0.38250668	1.8795045	20	—	—
137973 2000 CH_{40}	16.6	X	274.27344	171.60333	331.25633	19.73848	0.0602185	0.37583982	1.9016658	20	—	—
137974 2000 CG_{41}	16.2	X	120.64168	94.30269	347.47945	1.89543	0.0599107	0.25349410	2.4726206	20	4 3.5	19.3
137975 2000 CQ_{41}	16.6	X	311.59994	181.36384	278.91115	3.98798	0.1178225	0.28109382	2.3079967	20	—	—
137976 2000 CT_{41}	16.0	X	213.18579	143.73165	272.40779	5.64126	0.0961938	0.26206558	2.4184070	20	6 19.3	19.5
137977 2000 CU_{41}	15.2	X	286.23333	254.58034	275.10654	7.18139	0.0576478	0.18829413	3.0147053	20	—	—
137978 2000 CL_{43}	16.8	X	172.52860	172.37904	271.31174	1.28544	0.1846613	0.26019471	2.4299858	20	6 11.2	20.6
137979 2000 CG_{47}	15.1	X	184.04981	288.38773	300.71277	12.59269	0.0556224	0.22910536	2.6451231	20	12 29.3	18.8
137980 2000 CC_{49}	16.1	X	12.77165	203.06086	288.25211	2.57784	0.1636323	0.24276763	2.5449282	20	—	—
137981 2000 CH_{50}	16.1	X	313.00351	354.05433	189.41076	3.64178	0.2302672	0.23945081	2.5683755	20	—	—
137982 2000 CR_{53}	15.6	X	6.82458	161.25530	326.07133	3.87328	0.1617008	0.24052969	2.5606895	20	—	—
137983 2000 CU_{54}	15.5	X	266.93459	45.73688	160.26305	17.61028	0.1212141	0.23618415	2.5920033	20	—	—
137984 2000 CV_{55}	15.6	X	207.46951	79.15544	140.41012	11.83259	0.1282149	0.23076932	2.6323926	20	—	—
137985 2000 CP_{56}	15.4	X	269.74050	145.07386	351.32491	11.23590	0.1248704	0.22901321	2.6458326	20	12 9.6	18.8
137986 2000 CG_{60}	15.7	X	279.98376	73.10990	311.11977	4.32250	0.2396147	0.26754170	2.3852930	20	7 9.5	18.6
137987 2000 CN_{61}	15.6	X	269.50983	359.26272	192.86447	7.61006	0.1406774	0.23427117	2.6060944	20	—	—
137988 2000 CA_{62}	15.2	X	10.49989	173.49984	315.38187	13.54792	0.1017326	0.24093354	2.5578272	20	—	—
137989 2000 CB_{62}	15.0	X	173.04185	327.38084	325.96596	25.25852	0.1546469	0.28220904	2.3019123	20	—	—
137990 2000 CD_{62}	15.6	X	169.77471	280.06034	183.64469	10.36913	0.1777005	0.26026203	2.4295668	20	7 3.7	19.7
137991 2000 CM_{64}	16.0	X	18.23874	116.18733	335.95307	3.62332	0.0657137	0.24015445	2.5633562	20	—	—
137992 2000 CE_{66}	16.7	X	323.96266	182.76318	247.24252	2.41696	0.1268015	0.27907269	2.3191268	20	—	—
137993 2000 CH_{66}	16.5	X	151.02005	50.31445	85.03590	4.92540	0.1039079	0.26280699	2.4138565	20	7 27.6	20.0
137994 2000 CQ_{66}	16.6	X	151.86696	327.57678	165.61311	1.57358	0.1361578	0.26161266	2.4211974	20	7 25.2	20.3
137995 2000 CV_{74}	16.0	X	211.27914	129.35041	134.50621	3.15848	0.1564029	0.23795688	2.5791140	20	—	—
137996 2000 CT_{77}	16.5	X	153.17400	156.70607	295.84977	1.61870	0.1593853	0.25757078	2.4464611	20	6 3.7	20.2
137997 2000 CX_{77}	16.7	X	101.27732	212.68033	300.38828	1.71732	0.1225335	0.25669262	2.4520376	20	6 24.8	20.0
137998 2000 CK_{80}	15.2	X	14.58583	181.32571	326.18415	17.03985	0.0904317	0.24502448	2.5292770	20	2 1.6	18.0
137999 2000 CM_{80}	15.4	X	219.87318	56.31128	337.30283	13.63762	0.2732802	0.26133277	2.4229259	20	5 10.9	20.0
138000 2000 CK_{82}	15.6	X	228.29536	75.28941	10.85849	2.12469	0.1842527	0.26756484	2.3851554	20	8 8.4	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138001 2000 CV_{82}	16.4	X	189.48517	76.16441	103.83879	1.47471	0.1484649	0.27183670	2.3601014	20	11 2.6	19.8
138002 2000 CN_{84}	15.8	X	3.74706	29.34491	119.23271	1.67211	0.0924636	0.24314023	2.5423275	20	1 13.9	18.5
138003 2000 CK_{85}	16.3	X	177.17861	49.95932	56.09546	2.98296	0.0822028	0.26138751	2.4225876	20	7 16.9	19.8
138004 2000 CW_{85}	16.1	X	134.99299	15.72154	113.65741	2.26515	0.1277775	0.25867386	2.4395011	20	7 2.1	19.5
138005 2000 CT_{87}	14.8	X	197.80197	234.97280	333.13155	13.74029	0.0829460	0.22780978	2.6551424	20	12 14.5	18.9
138006 2000 CV_{87}	15.8	X	117.24201	132.72639	328.25956	14.10734	0.0541052	0.25267612	2.4779540	20	4 17.1	19.4
138007 2000 CN_{88}	15.9	X	331.33309	163.73837	356.33339	12.99976	0.2085777	0.23932894	2.5692473	20	—	—
138008 2000 CT_{88}	15.0	X	173.40021	207.74464	2.57543	12.53827	0.1211514	0.22339518	2.6900077	20	11 13.5	19.4
138009 2000 CX_{99}	15.9	X	272.11941	38.04425	137.24074	4.45258	0.1139317	0.23499403	2.6007473	20	—	—
138010 2000 CG_{100}	16.3	X	171.37530	144.86303	318.86564	4.93780	0.1435060	0.26215473	2.4178587	20	7 6.8	20.1
138011 2000 CO_{100}	16.4	X	160.17513	85.29192	341.62627	1.24350	0.0710116	0.25579851	2.4577481	20	5 3.3	19.7
138012 2000 CC_{101}	15.9	X	296.41408	144.66312	115.26829	2.83643	0.0831174	0.25124873	2.4873304	20	3 6.6	19.0
138013 2000 CN_{101}	14.6	X	245.09676	118.67403	183.37244	15.97419	0.6349890	0.48788861	1.5980447	20	1 21.2	18.5
138014 2000 CN_{103}	16.3	X	144.64680	226.20332	252.43070	7.79036	0.1879866	0.25950662	2.4342794	20	6 30.6	20.1
138015 2000 CT_{109}	15.8	X	137.12524	284.68291	221.75724	8.12428	0.2106001	0.26138930	2.4225766	20	7 28.7	20.0
138016 Kerribeisser	16.7	X	191.72648	80.83701	0.40213	3.88371	0.2089338	0.26197092	2.4189895	20	6 25.0	20.7
138017 2000 CG_{113}	17.1	X	291.27880	315.50515	139.86763	2.36820	0.1856817	0.27871733	2.3210976	20	12 2.9	18.8
138018 2000 CL_{113}	16.5	X	201.05176	170.63069	317.05845	4.38991	0.1723456	0.26905407	2.3763460	20	9 3.5	20.1
138019 2000 CG_{117}	16.5	X	182.42566	71.28632	59.26139	1.42741	0.1505820	0.26724247	2.3870731	20	8 22.6	20.0
138020 2000 CL_{118}	16.3	X	194.73918	30.90300	27.89623	2.47915	0.1740383	0.26063209	2.4272665	20	5 30.1	20.3
138021 2000 CG_{121}	16.1	X	324.61788	125.69413	262.20194	1.42976	0.2315899	0.27366839	2.3495587	20	10 31.9	17.3
138022 2000 CH_{121}	16.3	X	263.64349	239.02799	281.70460	5.38774	0.0692777	0.27976653	2.3152908	20	—	—
138023 2000 CL_{126}	15.4	X	237.43664	188.44762	30.06847	2.90072	0.1422740	0.23288575	2.6164199	20	—	—
138024 2000 CW_{131}	16.4	X	178.20596	195.02109	161.36469	2.56187	0.1103199	0.24678448	2.5172373	20	2 25.1	20.1
138025 2000 CB_{134}	16.4	X	179.53817	170.90667	146.65928	7.04031	0.0976470	0.24207861	2.5497549	20	1 9.1	20.2
138026 2000 DR	15.3	X	20.74267	9.65405	107.99331	8.02259	0.1948833	0.24200541	2.5502690	20	—	—
138027 2000 DD_{1}	16.3	X	154.49691	298.02748	240.81931	3.03293	0.2063858	0.26773084	2.3841694	20	9 24.5	20.3
138028 2000 DY_{1}	15.6	X	315.93484	88.21297	140.57313	2.73560	0.0511584	0.24733659	2.5134899	20	2 25.2	18.7
138029 2000 DP_{2}	16.7	X	175.87179	1.95751	157.77568	1.89483	0.1020031	0.26716486	2.3875354	20	9 25.4	20.1
138030 2000 DP_{4}	16.1	X	167.66217	109.67882	7.11298	8.57735	0.0695368	0.26200747	2.4187646	20	7 22.7	19.6
138031 2000 DK_{9}	13.3	X	294.54753	299.49659	158.01379	2.95438	0.0355940	0.08148979	5.2690693	20	11 4.7	20.2
138032 2000 DC_{11}	15.7	X	40.30647	28.09366	66.52171	0.45237	0.0082182	0.19267907	2.9687915	20	1 8.7	19.8
138033 2000 DQ_{11}	16.5	X	177.54067	86.75569	171.13023	3.51435	0.2022459	0.22678439	2.6631397	20	—	—
138034 2000 DQ_{16}	15.3	X	18.05833	123.73966	332.93673	22.01578	0.0792668	0.23863015	2.5742606	20	—	—
138035 2000 DE_{17}	17.2	X	48.30458	52.18295	337.31398	17.74617	0.1091901	0.37940324	1.8897399	20	—	—
138036 2000 DM_{17}	16.9	X	283.39772	143.35971	280.14207	1.78993	0.2382540	0.27192144	2.3596110	20	9 12.7	19.0
138037 2000 DG_{18}	15.6	X	101.58932	42.77039	11.99139	1.94531	0.1472341	0.24637677	2.5200136	20	2 17.8	18.8
138038 2000 DV_{18}	15.3	X	208.24707	348.63779	321.56350	12.19119	0.1638269	0.24462322	2.5320421	20	1 30.9	19.5
138039 2000 DN_{19}	15.9	X	311.41609	206.67007	325.26576	14.41456	0.0558855	0.23980664	2.5658342	20	—	—
138040 2000 DJ_{21}	16.6	X	242.54566	293.81910	155.67357	2.38148	0.1916637	0.27041238	2.3683816	20	8 28.1	19.9
138041 2000 DN_{21}	15.6	X	191.00024	104.73558	317.69840	5.90270	0.1191709	0.25928169	2.4356870	20	6 1.0	19.3
138042 2000 DW_{21}	15.9	X	271.36598	185.90616	316.67774	8.39107	0.0563518	0.23061624	2.6335574	20	12 31.2	19.2
138043 2000 DT_{23}	17.1	X	155.09455	333.87944	136.53946	1.95982	0.1345706	0.26002064	2.4310702	20	6 28.4	20.8
138044 2000 DW_{24}	15.8	X	293.92002	208.08408	339.06522	7.17710	0.1088287	0.23846731	2.5754323	20	—	—
138045 2000 DD_{27}	16.8	X	306.50719	248.18312	212.60108	1.74453	0.1755477	0.27989074	2.3146057	20	—	—
138046 2000 DQ_{27}	17.0	X	104.96444	307.56950	205.25294	2.31403	0.1424866	0.25740788	2.4474932	20	7 1.2	20.3
138047 2000 DS_{30}	15.8	X	83.52465	272.14262	312.75098	5.74049	0.1113837	0.21395397	2.7685720	20	9 1.4	19.7
138048 2000 DG_{32}	15.7	X	25.36958	67.33373	338.25157	13.86970	0.0355318	0.23269739	2.6178316	20	—	—
138049 2000 DO_{33}	16.1	X	238.60709	122.47208	305.12912	3.15300	0.0984456	0.26509852	2.3999260	20	8 5.3	19.2
138050 2000 DJ_{34}	16.9	X	189.94766	229.53682	206.34159	1.01809	0.1520337	0.26030907	2.4292741	20	6 17.8	20.7
138051 2000 DM_{34}	15.5	X	113.97402	326.52717	145.39103	3.19524	0.0627846	0.25370724	2.4712355	20	5 8.0	18.8
138052 2000 DB_{36}	16.3	X	43.47450	107.52764	337.07905	6.53256	0.0588853	0.28908642	2.2652576	20	—	—
138053 2000 DL_{37}	15.5	X	266.72400	139.28108	97.04658	2.05266	0.0487899	0.24090072	2.5580595	20	1 4.5	18.9
138054 2000 DC_{38}	15.2	X	121.71304	44.66803	155.46195	14.09058	0.1224053	0.21576926	2.7530219	20	9 16.3	19.5
138055 2000 DM_{38}	16.2	X	258.53443	260.16959	325.44994	2.89412	0.0966158	0.23768182	2.5811034	20	—	—
138056 2000 DN_{38}	16.4	X	151.35617	237.91833	168.34197	3.71997	0.2000221	0.25211940	2.4816005	20	4 7.3	20.3
138057 2000 DQ_{38}	15.7	X	255.48134	141.03963	334.37707	13.74851	0.0453949	0.22422471	2.6833690	20	10 27.5	19.6
138058 2000 DX_{38}	15.9	X	334.78951	74.64974	312.96986	3.64399	0.2472874	0.27455059	2.3445228	20	11 30.9	17.4
138059 2000 DA_{39}	15.9	X	195.45060	91.58281	324.89984	6.90570	0.1292209	0.25819068	2.4425437	20	5 27.9	19.8
138060 2000 DC_{39}	15.7	X	210.87331	296.63633	311.61477	3.73927	0.0993512	0.23404005	2.6078099	20	—	—
138061 2000 DE_{39}	16.4	X	178.24632	260.16394	170.70868	8.17155	0.2058413	0.25894168	2.4378187	20	6 1.3	20.6
138062 2000 DB_{42}	16.9	X	272.20847	96.07793	350.99375	2.02888	0.1801127	0.27328347	2.3517644	20	10 9.4	19.1
138063 2000 DQ_{43}	16.2	X	140.12444	274.95712	7.79592	1.87665	0.0563892	0.22975406	2.6401418	20	—	—
138064 2000 DD_{45}	15.9	X	207.00912	8.79296	271.59337	1.63461	0.1441637	0.23714917	2.5849668	20	—	—
138065 2000 DB_{46}	16.5	X	112.13440	279.93167	258.72017	1.72491	0.1463099	0.26045694	2.4283545	20	8 13.3	20.0
138066 2000 DO_{47}	16.0	X	96.07906	144.65860	160.20598	13.62617	0.0426003	0.22703570	2.6611741	20	12 22.6	20.0
138067 2000 DX_{47}	16.2	X	95.55323	186.93371	7.72121	1.15068	0.1376531	0.25990620	2.4317838	20	8 16.4	19.6
138068 2000 DE_{51}	15.8	X	292.26034	16.40574	146.23503	5.90244	0.0756181	0.23461898	2.6035182	20	—	—
138069 2000 DY_{51}	14.8	X	155.66101	116.58586	153.71038	11.69491	0.1846542	0.17867617	3.1219429	20	12 31.5	20.2
138070 2000 DA_{53}	16.4	X	86.16296	308.49313	238.50870	1.66783	0.1443417	0.25764298	2.4460040	20	7 25.4	19.7
138071 2000 DH_{54}	15.4	X	32.97246	116.65218	166.80079	13.58136	0.2269244	0.21279354	2.7786281	20	10 2.9	18.8
138072 2000 DY_{54}	16.8	X	4.61996	173.95611	355.83216	0.91968	0.0982116	0.24510504	2.5287228	20	2 12.9	19.4
138073 2000 DJ_{56}	16.0	X	350.68810	76.82564	158.74298	3.54136	0.2629750	0.19917760	2.9038603	20	4 13.7	18.4
138074 2000 DD_{57}	15.7	X	214.96198	82.28321	172.49188	5.07683	0.1067373	0.23465315	2.6032654	20	—	—
138075 2000 DE_{57}	16.1	X	276.35121	78.20411	309.69691	1.49908	0.1885119	0.26469530	2.4023626	20	7 17.8	19.0
138076 2000 DQ_{57}	15.5	X	148.40595	319.04328	291.68851	2.29764	0.2690240	0.22308732	2.6924819	20	12 9.3	20.2
138077 2000 DV_{57}	16.2	X	151.91108	221.68444	233.97447	1.35260	0.1743364	0.25714033	2.4491906	20	6 7.5	20.1
138078 2000 DQ_{58}	15.8	X	104.80929	76.94091	175.97974	4.37395	0.0685190	0.22022954	2.7157242	20	10 30.3	19.6
138079 2000 DT_{58}	15.5	X	298.17471	209.23457	325.74605	3.53779	0.1783025	0.23622019	2.5917397	20	—	—
138080 2000 DA_{59}	16.0	X	251.43967	21.46404	337.68449	8.24604	0.0828320	0.25556493	2.4592455	20	5 17.3	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138081 2000 DM_{60}	15.9	X	31.38705	91.91797	350.03249	3.18581	0.2197828	0.23992067	2.5650211	20	—	—
138082 2000 DO_{61}	16.3	X	26.17990	102.14070	354.16207	3.67075	0.1492196	0.23983113	2.5656595	20	—	—
138083 2000 DL_{62}	15.6	X	74.65843	86.50843	164.67777	13.14053	0.1213943	0.21484287	2.7609302	20	9 29.6	19.5
138084 2000 DY_{62}	15.4	X	135.41294	61.98293	314.00108	2.29392	0.0584420	0.24214824	2.5492661	20	1 28.7	18.8
138085 2000 DZ_{62}	16.3	X	231.88813	242.22306	182.39404	2.37512	0.1981780	0.26406599	2.4061779	20	7 11.4	19.8
138086 2000 DD_{64}	16.4	X	339.46845	342.47068	185.82186	4.76506	0.1447254	0.24107036	2.5568594	20	—	—
138087 2000 DQ_{64}	16.1	X	200.55968	56.51618	194.15812	2.02142	0.0998716	0.23193342	2.6235771	20	—	—
138088 2000 DE_{66}	15.7	X	162.50718	354.02544	334.47525	4.72384	0.1560894	0.23860455	2.5744447	20	1 11.4	19.7
138089 2000 DQ_{67}	15.7	X	296.66041	290.42294	162.73669	14.89391	0.0527226	0.22604721	2.6689265	20	12 3.7	19.4
138090 2000 DS_{68}	16.0	X	258.35214	241.55184	204.74679	1.43761	0.1876463	0.27042217	2.3683244	20	9 14.1	18.8
138091 2000 DC_{69}	15.5	X	212.57406	219.07183	314.75885	2.93598	0.1503350	0.22418047	2.6837220	20	11 9.3	19.4
138092 2000 DY_{69}	15.6	X	195.41017	188.64197	9.97795	2.54853	0.1409748	0.22470580	2.6795376	20	11 23.4	19.7
138093 2000 DF_{72}	16.1	X	59.86915	297.74112	155.95327	7.51969	0.1609182	0.24384300	2.5374404	20	2 6.2	18.6
138094 2000 DR_{72}	15.8	X	121.37440	94.46663	148.54231	4.13366	0.1265309	0.21966297	2.7203920	20	11 8.2	20.0
138095 2000 DK_{79}	16.0	X	274.20979	2.54666	43.46286	60.67831	0.4143429	0.41619490	1.7766623	20	—	—
138096 2000 DL_{80}	15.7	X	84.78366	105.52112	128.46546	17.71152	0.1469789	0.21596792	2.7513334	20	9 26.6	20.0
138097 2000 DZ_{80}	16.1	X	272.21728	43.26759	57.46065	3.57414	0.1284821	0.27528874	2.3403299	20	11 8.5	18.2
138098 2000 DK_{81}	16.2	X	197.14440	306.33905	107.33251	7.90870	0.0980894	0.25914894	2.4365187	20	5 29.9	19.9
138099 2000 DT_{83}	15.6	X	249.87499	227.82716	6.83974	8.08098	0.1174038	0.23823809	2.5770840	20	—	—
138100 2000 DU_{84}	16.9	X	197.28390	287.46407	135.10068	2.69070	0.1934766	0.26126333	2.4233552	20	6 6.5	20.9
138101 2000 DM_{86}	15.7	X	229.29788	209.89368	23.74628	7.42141	0.0770662	0.23552345	2.5968485	20	—	—
138102 2000 DE_{90}	16.6	X	259.68402	76.59107	315.09638	3.93595	0.2000911	0.26601356	2.3944193	20	6 28.6	19.9
138103 2000 DK_{90}	16.7	X	210.25458	234.49784	180.93515	0.87136	0.1570164	0.26186299	2.4196542	20	6 10.9	20.2
138104 2000 DQ_{92}	15.6	X	143.47471	254.06927	40.63197	2.64025	0.1862234	0.22652259	2.6651912	20	—	—
138105 2000 DS_{93}	15.8	X	289.82625	144.56627	23.33759	2.71390	0.1839212	0.23543717	2.5974829	20	—	—
138106 2000 DB_{96}	15.0	X	88.25670	303.37918	313.27555	7.87829	0.2272976	0.21923087	2.7239654	20	10 27.1	19.6
138107 2000 DL_{96}	16.0	X	130.88165	116.50327	313.59673	6.92788	0.1956537	0.25371799	2.4711657	20	4 13.1	19.8
138108 2000 DC_{102}	15.0	X	72.46580	57.60320	147.14360	17.75518	0.0739206	0.20928053	2.8096367	20	7 17.6	19.0
138109 2000 DD_{102}	15.8	X	187.62830	304.60697	135.24332	8.71965	0.1687898	0.26004498	2.4309185	20	6 20.8	19.7
138110 2000 DW_{102}	16.8	X	160.55799	56.00507	79.86982	3.35360	0.1752553	0.26255658	2.4153910	20	8 8.1	20.7
138111 2000 DO_{106}	16.0	X	291.85866	140.81508	42.12225	5.50401	0.1568358	0.23590026	2.5940824	20	—	—
138112 2000 DB_{107}	15.4	X	315.77413	75.01362	29.88068	9.63574	0.0172359	0.22910264	2.6451440	20	—	—
138113 2000 DR_{110}	15.4	X	14.78406	55.40158	6.65246	21.98108	0.0565434	0.23139212	2.6276671	20	—	—
138114 2000 DK_{115}	16.6	X	25.43411	284.28119	191.70413	5.81088	0.2180079	0.24228282	2.5483220	20	—	—
138115 2000 DV_{116}	15.8	X	171.41082	340.10531	324.11254	12.97782	0.1412279	0.23799259	2.5788560	20	—	—
138116 2000 EZ	15.8	X	256.88298	50.40410	334.39263	6.11752	0.2552681	0.26561990	2.3967844	20	6 7.7	19.5
138117 2000 EJ_{2}	17.0	X	307.14517	235.25266	250.26494	0.47987	0.0428120	0.23176458	2.6248511	20	—	—
138118 2000 EA_{4}	15.6	X	138.42444	72.99565	56.97274	3.46723	0.1277621	0.25941012	2.4348831	20	7 6.9	19.2
138119 2000 EO_{4}	16.6	X	126.68631	333.25572	324.39974	3.52989	0.0122480	0.23180509	2.6245453	20	—	—
138120 2000 ED_{5}	15.8	X	300.82015	1.74635	161.71036	14.78444	0.0340741	0.23583798	2.5945391	20	—	—
138121 2000 EK_{8}	17.2	X	209.37676	159.92401	358.52054	1.16446	0.1209122	0.27280850	2.3544932	20	10 29.9	20.2
138122 2000 ER_{10}	15.9	X	331.21926	353.80510	149.90341	0.27163	0.1791576	0.19010269	2.9955544	20	—	—
138123 2000 ES_{10}	15.4	X	244.92399	121.77402	133.77938	11.37266	0.0948848	0.24052610	2.5607150	20	—	—
138124 2000 EG_{11}	16.5	X	343.12051	299.20021	207.50391	3.08003	0.1251346	0.24002240	2.5642963	20	—	—
138125 2000 EE_{12}	15.6	X	192.83572	342.09414	73.48809	7.22202	0.1099027	0.25816690	2.4426937	20	5 26.3	19.2
138126 2000 EC_{13}	15.3	X	307.99681	68.09366	120.33419	15.34372	0.0630312	0.23991000	2.5650971	20	—	—
138127 2000 EE_{14}	17.1	X	27.32497	197.83592	155.76176	26.46222	0.5330324	1.83056828	0.6618284	20	—	—
138128 2000 ES_{14}	15.6	X	222.29553	175.58866	42.16930	12.67267	0.2240280	0.23064162	2.6333642	20	—	—
138129 2000 EH_{17}	16.4	X	111.72724	288.75587	192.67290	4.30680	0.1463316	0.25354728	2.4722748	20	5 28.8	19.9
138130 2000 EO_{18}	15.5	X	333.28628	116.66861	67.73573	2.61264	0.0403139	0.24354889	2.5394828	20	1 23.7	18.6
138131 2000 ES_{20}	16.1	X	149.82714	248.62567	177.84263	22.73330	0.3397397	0.25673362	2.4517766	20	5 10.7	20.9
138132 2000 EZ_{20}	15.1	X	220.38700	280.33457	305.58801	12.36430	0.1282024	0.23163041	2.6258646	20	—	—
138133 2000 EY_{21}	16.8	X	70.02191	169.01513	156.88729	23.06511	0.0714853	0.37053951	1.9197575	20	—	—
138134 2000 ET_{22}	16.5	X	265.95791	225.42508	154.09161	2.44007	0.2354838	0.26538019	2.3982275	20	6 14.2	19.7
138135 2000 EV_{24}	15.7	X	94.94565	195.42446	184.29913	3.82597	0.1179989	0.23501230	2.6006126	20	—	—
138136 2000 EE_{29}	15.1	X	54.10959	338.87032	109.99123	13.46692	0.1324726	0.24164208	2.5528247	20	1 18.4	17.7
138137 2000 EW_{31}	16.4	X	9.91119	116.51284	357.08097	7.14171	0.1609954	0.24055489	2.5605107	20	—	—
138138 2000 EQ_{32}	15.7	X	308.32671	175.08430	1.73270	10.88053	0.1466361	0.23811526	2.5779702	20	—	—
138139 2000 EV_{43}	15.5	X	256.95294	149.15276	17.72937	4.15510	0.1525519	0.22801980	2.6535117	20	12 27.8	18.6
138140 2000 EZ_{43}	16.8	X	23.35262	336.46373	177.18608	3.65722	0.1726721	0.24458689	2.5322928	20	2 20.9	19.2
138141 2000 EV_{45}	16.0	X	349.97172	190.83029	354.95005	2.26673	0.1773979	0.24289625	2.5440297	20	2 1.7	18.4
138142 2000 EE_{50}	15.6	X	287.27206	166.97967	5.62233	13.33449	0.0974364	0.23628962	2.5912319	20	—	—
138143 2000 EL_{54}	17.2	X	276.21141	297.65987	179.51455	22.14344	0.0805650	0.36965361	1.9228235	20	—	—
138144 2000 EH_{56}	16.0	X	34.36373	133.84329	345.96133	6.65102	0.1575816	0.24296553	2.5435461	20	1 27.7	18.4
138145 2000 EO_{59}	16.7	X	85.57073	116.04641	153.17646	1.13605	0.0585756	0.26851717	2.3795126	20	11 4.8	19.9
138146 2000 EW_{60}	16.6	X	27.19238	175.07429	350.72445	6.47526	0.1720167	0.24650086	2.5191678	20	3 18.9	18.8
138147 2000 ER_{61}	16.7	X	11.92756	160.81044	352.38779	3.90974	0.1787990	0.24309043	2.5426747	20	1 28.7	19.0
138148 2000 EJ_{63}	16.2	X	182.86028	211.49601	20.82175	2.38234	0.1700140	0.27379541	2.3488319	20	12 29.8	19.5
138149 2000 EG_{64}	16.5	X	312.98796	52.92920	168.25566	4.99913	0.1954257	0.24136327	2.5547904	20	1 20.1	20.0
138150 2000 EY_{64}	16.5	X	29.90147	98.62549	358.35932	5.32330	0.1861662	0.23928359	2.5695719	20	—	—
138151 2000 EE_{66}	15.7	X	262.95662	153.08487	8.36755	13.23170	0.1357501	0.22876495	2.6477464	20	—	—
138152 2000 EO_{68}	16.3	X	35.93999	285.65704	218.65110	2.88592	0.1050153	0.24453291	2.5326655	20	2 29.6	19.1
138153 2000 EW_{68}	16.5	X	322.25742	54.38428	170.75619	5.36697	0.0918042	0.24354472	2.5395118	20	2 22.6	19.5
138154 2000 EO_{69}	15.8	X	179.94940	196.79981	355.10768	2.34108	0.1150373	0.22030288	2.7151215	20	10 31.9	19.9
138155 2000 ES_{70}	17.1	X	154.20339	281.50612	177.74951	25.44166	0.3195157	0.40518668	1.8086975	20	6 21.3	20.8
138156 2000 EE_{73}	16.6	X	24.37616	120.49606	340.37285	3.64093	0.1163976	0.24092111	2.5579152	20	—	—
138157 2000 EJ_{77}	15.7	X	188.21999	327.66823	96.16649	7.45532	0.1140546	0.25756042	2.4465267	20	6 1.7	19.3
138158 2000 ED_{82}	15.5	X	277.89841	98.36419	21.39155	8.33653	0.0456952	0.22668435	2.6639232	20	12 8.6	19.0
138159 2000 EC_{85}	15.9	X	146.51319	282.76631	256.06503	7.09885	0.1799339	0.26541253	2.3980327	20	9 14.9	20.0
138160 2000 ET_{87}	15.4	X	303.12145	116.95923	12.70620	13.05562	0.1214038	0.23062448	2.6334947	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138161 2000 EB_{88}	15.5	X	339.91262	242.00996	303.60698	16.60349	0.1160925	0.24347692	2.5399832	20	1 23.9	18.3
138162 2000 EH_{88}	15.0	X	166.40519	285.68287	303.74553	13.93173	0.0928128	0.22521664	2.6754842	20	12 4.9	19.3
138163 2000 EK_{93}	15.1	X	31.82326	301.17579	201.43299	14.21104	0.1190156	0.24483028	2.5306143	20	2 17.1	18.1
138164 2000 EG_{96}	15.6	X	142.28640	270.71195	355.62245	12.70333	0.1307348	0.22521810	2.6754727	20	12 25.8	20.1
138165 2000 EM_{96}	15.1	X	349.99486	116.16564	17.92518	13.84363	0.1247322	0.23903777	2.5713332	20	—	—
138166 2000 ER_{97}	15.3	X	228.72177	120.72332	35.31978	23.44133	0.2881641	0.27093662	2.3653255	20	10 27.6	18.8
138167 2000 EP_{99}	16.0	X	106.35368	359.72581	350.92726	2.04275	0.0680000	0.23390841	2.6087882	20	—	—
138168 2000 EK_{100}	17.1	X	13.48916	334.12672	188.70224	4.07411	0.0705755	0.24430443	2.5342444	20	2 17.9	20.1
138169 2000 EN_{100}	16.9	X	200.36712	95.62028	319.23411	1.72696	0.1649272	0.25695122	2.4503921	20	5 30.7	20.9
138170 2000 EP_{100}	16.6	X	247.63390	317.86548	275.71962	0.94852	0.0912575	0.23535953	2.5980541	20	—	—
138171 2000 EK_{102}	15.2	X	184.14458	181.83317	184.96958	5.46060	0.1754649	0.24674987	2.5174726	20	3 16.6	19.3
138172 2000 EU_{102}	15.9	X	55.09449	317.12732	344.44849	4.31699	0.1041483	0.21844537	2.7304915	20	11 3.8	19.7
138173 2000 ET_{103}	15.2	X	56.62574	325.66269	112.64855	13.41720	0.1289388	0.24031831	2.5621908	20	1 7.9	17.9
138174 2000 EV_{103}	16.1	X	340.12281	333.51141	235.51867	4.31090	0.1742706	0.24381150	2.5376590	20	2 14.6	18.9
138175 2000 EE_{104}	20.3	X	285.06420	280.95791	25.56818	5.23823	0.2931438	0.97941330	1.0042119	20	1 6.2	19.0
138176 2000 EM_{105}	15.2	X	275.28171	66.02671	80.07707	9.43956	0.0649840	0.22755680	2.6571098	20	—	—
138177 2000 EP_{105}	15.6	X	291.35099	170.55519	33.35836	15.46076	0.0564474	0.23674383	2.5879165	20	—	—
138178 2000 EK_{106}	15.2	X	158.05048	116.52242	155.52984	14.98785	0.0811704	0.22691011	2.6621559	20	—	—
138179 2000 EY_{107}	14.9	X	137.27824	92.70895	175.67508	27.05736	0.2383132	0.22541229	2.6739359	20	12 22.8	20.1
138180 2000 EN_{110}	15.8	X	149.04696	86.87176	33.73014	9.88724	0.2014607	0.25886194	2.4383193	20	7 9.5	20.0
138181 2000 ET_{110}	15.4	X	13.47458	95.71095	25.36530	9.52315	0.0562955	0.23860672	2.5744291	20	—	—
138182 2000 EC_{111}	14.9	X	59.93245	239.78253	12.13773	24.77187	0.1709290	0.21085816	2.7956048	20	9 22.9	18.8
138183 2000 EF_{112}	14.7	X	162.44718	71.38138	296.70866	12.98871	0.1266306	0.24538965	2.5267671	20	2 20.3	18.7
138184 2000 EQ_{112}	16.2	X	228.37656	247.00547	265.08939	3.93189	0.1629703	0.27266593	2.3553139	20	11 7.2	19.1
138185 2000 EK_{113}	16.6	X	57.99143	247.04767	188.10698	4.60173	0.1968442	0.24113440	2.5564066	20	1 11.4	19.0
138186 2000 EB_{115}	15.8	X	116.33682	66.43716	177.87929	5.08547	0.1109848	0.21966087	2.7204093	20	11 3.9	20.0
138187 2000 EJ_{115}	15.9	X	67.84941	20.87730	345.99894	13.87768	0.0682822	0.23121367	2.6290189	20	—	—
138188 2000 EV_{115}	16.5	X	119.88133	50.94639	171.49416	2.06154	0.0182552	0.21817474	2.7327490	20	10 4.3	20.2
138189 2000 EZ_{115}	15.6	X	167.04411	154.57263	177.38314	5.63036	0.2388887	0.23840430	2.5758861	20	1 23.6	19.9
138190 2000 EK_{118}	15.1	X	315.13154	172.40854	14.96095	15.16377	0.0418658	0.24183083	2.5514963	20	1 4.8	18.8
138191 2000 EH_{119}	15.2	X	291.20760	152.11290	2.91403	21.91454	0.0300354	0.23410776	2.6073070	20	—	—
138192 2000 EA_{120}	15.4	X	103.16409	101.42724	45.12219	7.08942	0.0797520	0.25621963	2.4550544	20	6 11.4	18.6
138193 2000 ER_{124}	16.2	X	349.39811	141.01680	9.91829	5.43400	0.2183429	0.24064231	2.5598905	20	—	—
138194 2000 EA_{127}	15.7	X	344.16168	114.00406	20.85001	7.35995	0.1661532	0.23777784	2.5804085	20	—	—
138195 2000 EG_{128}	16.6	X	58.17696	199.12822	166.64932	23.45573	0.0936908	0.37523624	1.9037045	20	—	—
138196 2000 ES_{129}	14.9	X	119.32070	344.19173	8.58196	13.05945	0.1570557	0.23528422	2.5986085	20	—	—
138197 2000 EG_{131}	17.2	X	134.41106	74.52814	177.05937	22.66002	0.0585080	0.36901912	1.9250269	20	—	—
138198 2000 EV_{131}	15.0	X	74.97510	41.55128	4.26753	14.82694	0.0932112	0.23747732	2.5825850	20	—	—
138199 2000 EJ_{132}	16.3	X	355.45050	143.70338	349.46931	7.75638	0.1382916	0.23858406	2.5745921	20	—	—
138200 2000 EW_{137}	15.6	X	29.06645	325.03640	142.16432	14.64465	0.1426976	0.23927646	2.5696229	20	—	—
138201 2000 EZ_{137}	16.5	X	312.82796	54.37154	336.24974	2.27948	0.1939222	0.27056666	2.3674812	20	10 3.1	18.1
138202 2000 EG_{139}	15.8	X	127.86835	344.79083	333.47249	3.87726	0.1085194	0.23075142	2.6325288	20	—	—
138203 2000 EJ_{142}	16.3	X	226.50130	262.65984	152.84774	6.75341	0.1062041	0.26240946	2.4162937	20	7 2.9	19.7
138204 2000 EY_{146}	15.7	X	82.35676	50.47184	95.45295	9.53801	0.1811156	0.25288677	2.4765778	20	5 31.3	18.9
138205 2000 EZ_{148}	14.9	X	273.39626	305.84172	3.81348	11.18402	0.6128839	0.23740247	2.5831278	20	2 25.1	20.2
138206 2000 EJ_{149}	17.0	X	162.12113	73.98475	39.85448	2.88832	0.1654958	0.26081635	2.4261232	20	7 11.1	20.7
138207 2000 EN_{149}	16.6	X	201.23688	91.49545	88.70150	2.88772	0.1388134	0.27304724	2.3531206	20	11 16.8	20.0
138208 2000 EN_{162}	15.6	X	157.72043	327.26503	325.35089	1.26631	0.1253366	0.23117740	2.6292939	20	—	—
138209 2000 EK_{163}	15.5	X	208.69495	311.76807	170.23727	0.99550	0.1404566	0.17017225	3.2251027	20	8 29.2	20.4
138210 2000 EA_{166}	16.0	X	64.48137	65.71740	7.38137	2.87149	0.1208383	0.24097150	2.5575586	20	1 14.0	18.7
138211 2000 EF_{167}	15.3	X	212.88218	161.83198	4.71207	14.62533	0.0988204	0.22485644	2.6783407	20	11 2.7	19.4
138212 2000 EY_{172}	16.3	X	287.54067	309.27759	232.04165	3.17257	0.1709545	0.23459416	2.6037018	20	—	—
138213 2000 EL_{174}	15.9	X	257.56652	189.54143	276.31159	0.93797	0.0465650	0.17658876	3.1464971	20	10 15.2	20.3
138214 2000 EU_{178}	15.1	X	233.88619	80.07694	122.30240	15.63626	0.1093506	0.23168270	2.6254695	20	—	—
138215 2000 EJ_{181}	15.2	X	142.86802	315.70655	48.28718	9.77444	0.0869230	0.24237361	2.5476856	20	1 28.9	18.9
138216 2000 EG_{183}	14.8	X	229.15140	217.01554	19.09974	15.12711	0.0552128	0.23467460	2.6031068	20	—	—
138217 2000 EJ_{192}	16.7	X	210.63160	38.56943	192.35982	4.66910	0.2062472	0.22926685	2.6438808	20	—	—
138218 2000 EW_{193}	16.0	X	340.43186	85.68823	336.64877	5.52911	0.0174061	0.22639555	2.6661881	20	12 21.9	19.5
138219 2000 EF_{196}	16.8	X	76.87586	282.18793	190.68803	1.51960	0.1005940	0.24761812	2.5115843	20	3 23.8	19.6
138220 2000 ET_{196}	15.2	X	166.25301	343.56088	348.89179	15.22343	0.1108450	0.23797246	2.5790014	20	1 19.9	19.3
138221 Baldry	16.7	X	181.21572	87.23534	184.72311	4.62300	0.1312876	0.23046315	2.6347236	20	—	—
138222 2000 FU_{3}	15.7	X	181.93694	48.93005	77.84867	9.51633	0.1635207	0.26357112	2.4091888	20	8 19.4	19.6
138223 2000 FK_{6}	16.5	X	347.53895	140.16954	21.57546	3.62217	0.1513331	0.23929418	2.5694961	20	—	—
138224 2000 FB_{7}	16.1	X	153.72843	180.77676	197.86079	4.22338	0.0848213	0.24220059	2.5488988	20	2 24.3	19.7
138225 2000 FR_{8}	16.4	X	190.72167	81.55413	189.72756	7.13618	0.2032585	0.22897281	2.6461438	20	—	—
138226 2000 FV_{12}	14.4	X	184.52423	156.74462	50.84330	14.23614	0.1213390	0.22395592	2.6855156	20	11 24.2	18.6
138227 2000 FK_{16}	15.6	X	355.93227	53.62108	82.28925	4.20636	0.1649980	0.23926993	2.5696696	20	—	—
138228 2000 FG_{17}	15.7	X	255.23548	20.81693	66.74631	5.48821	0.2204794	0.26947900	2.3738472	20	9 9.7	18.6
138229 2000 FV_{18}	15.5	X	152.66170	329.27395	119.68887	10.66454	0.1838376	0.25455358	2.4657549	20	6 1.9	19.6
138230 2000 FE_{19}	15.2	X	107.41529	271.40741	51.06570	14.19646	0.0507284	0.22792412	2.6542543	20	—	—
138231 2000 FK_{20}	15.3	X	176.43928	1.19963	155.64956	14.23099	0.1536676	0.21659193	2.7460464	20	9 15.4	19.7
138232 2000 FV_{22}	15.9	X	235.30295	17.38274	203.98002	17.08245	0.2236909	0.22961774	2.6411866	20	—	—
138233 2000 FM_{23}	15.6	X	285.95928	92.42851	92.73055	12.53956	0.1385743	0.23378011	2.6097426	20	—	—
138234 2000 FN_{23}	15.3	X	93.62750	224.66455	74.85211	15.46122	0.0499319	0.22235248	2.6984108	20	12 11.8	19.1
138235 2000 FV_{24}	15.5	X	125.52441	158.04491	102.42666	10.43893	0.0644141	0.22107202	2.7088203	20	12 1.8	19.5
138236 2000 FA_{25}	15.6	X	79.96280	20.01209	63.25520	14.45295	0.0988152	0.24171337	2.5523228	20	2 25.4	19.0
138237 2000 FQ_{28}	15.6	X	296.26786	108.38883	359.68371	13.20824	0.1315347	0.22623000	2.6674887	20	12 13.9	18.8
138238 2000 FQ_{30}	15.5	X	233.20848	155.87922	26.28279	14.14678	0.1331623	0.22619333	2.6677769	20	12 15.4	19.4
138239 2000 FU_{32}	16.2	X	181.79228	359.91809	119.41888	3.78292	0.1370065	0.26134267	2.4228647	20	8 6.9	19.9
138240 2000 FP_{33}	15.8	X	197.95732	57.34181	69.48967	10.31685	0.1937965	0.26605196	2.3941889	20	9 4.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138241 2000 FS_{33}	15.2	X	119.33455	269.94211	15.09239	11.22176	0.1536050	0.22310244	2.6923603	20	12 26.5	19.8
138242 2000 FW_{33}	15.6	X	236.90563	48.26495	128.60702	2.87313	0.0247354	0.22649853	2.6653799	20	12 30.9	19.1
138243 2000 FQ_{35}	15.7	X	167.81050	212.50205	30.26872	14.11928	0.0960856	0.22433159	2.6825167	20	12 21.9	20.0
138244 2000 FJ_{38}	16.1	X	317.57912	41.26987	169.67952	5.68019	0.0977268	0.24051843	2.5607694	20	1 27.5	19.4
138245 2000 FG_{40}	15.2	X	140.87466	31.97879	157.99659	8.38026	0.2002671	0.21407698	2.7675113	20	9 24.3	19.9
138246 2000 FZ_{46}	15.3	X	125.56706	182.95530	68.52817	10.66364	0.1758474	0.21871166	2.7282747	20	11 22.7	19.8
138247 2000 FN_{50}	16.4	X	68.68017	31.73206	338.81610	1.87126	0.1163938	0.22911830	2.6450235	20	—	—
138248 2000 FP_{53}	16.5	X	171.47678	75.54140	199.72352	1.39573	0.1706080	0.22701743	2.6613168	20	—	—
138249 2000 FL_{56}	15.6	X	309.55587	68.39932	37.02458	9.94230	0.0787366	0.22730901	2.6590405	20	—	—
138250 2000 FS_{56}	16.2	X	326.07516	112.87634	67.70817	5.62180	0.0967418	0.23852003	2.5750528	20	1 1.3	19.6
138251 2000 FH_{57}	15.9	X	139.22715	94.61645	145.57718	5.42301	0.0920169	0.22148342	2.7054649	20	11 21.8	20.0
138252 2000 FM_{58}	15.8	X	359.79588	20.68515	50.95073	3.63976	0.0981842	0.22958346	2.6414495	20	—	—
138253 2000 FB_{60}	16.8	X	141.54861	26.48507	117.30796	3.41906	0.1422120	0.25866199	2.4395757	20	7 29.2	20.6
138254 2000 FD_{61}	15.3	X	163.58997	202.40618	120.00745	15.17127	0.1120309	0.23377946	2.6097474	20	1 1.5	19.3
138255 2000 FJ_{69}	16.4	X	333.82793	14.08043	185.62737	6.30749	0.0848912	0.24218880	2.5489815	20	2 5.5	19.6
138256 2000 FR_{69}	16.0	X	25.26055	238.61644	192.37677	14.64206	0.0603147	0.23194295	2.6235052	20	—	—
138257 2000 FR_{70}	16.8	X	88.60561	230.55144	194.49167	8.56721	0.1605866	0.24151076	2.5537500	20	2 12.8	19.9
138258 2000 GD_{2}	19.1	X	349.37856	16.97205	358.12257	32.13699	0.4767147	1.49427319	0.7577327	20	—	—
138259 2000 GQ_{3}	17.0	X	152.26318	266.59292	29.34809	22.28715	0.0690837	0.37406501	1.9076762	20	—	—
138260 2000 GS_{3}	16.7	X	120.12281	128.37639	208.42408	21.39787	0.1414148	0.37442391	1.9064569	20	—	—
138261 2000 GR_{4}	15.3	X	16.40845	138.48126	11.49679	26.91867	0.1977401	0.24365160	2.5387691	20	2 17.8	18.2
138262 2000 GM_{9}	15.4	X	316.47965	107.16486	345.33936	3.97758	0.0652233	0.22781646	2.6550904	20	12 30.1	18.6
138263 2000 GW_{9}	15.8	X	88.90207	105.81847	355.19146	5.19707	0.0525936	0.24628265	2.5206555	20	3 17.7	18.9
138264 2000 GQ_{11}	16.3	X	112.85201	278.60888	153.86841	0.99831	0.1325348	0.24665867	2.5180931	20	3 23.9	19.5
138265 2000 GY_{13}	16.2	X	326.99897	80.61672	18.88119	4.66207	0.0698685	0.22899536	2.6459701	20	—	—
138266 2000 GC_{14}	15.8	X	237.32156	146.83673	18.26564	8.49275	0.0719392	0.22510175	2.6763945	20	12 8.1	19.4
138267 2000 GQ_{15}	15.7	X	54.33162	249.09370	196.26078	14.47625	0.0868912	0.23896529	2.5718532	20	1 8.5	19.0
138268 2000 GR_{15}	15.8	X	191.88947	283.30514	209.61481	4.49548	0.2311709	0.26561642	2.3968054	20	8 27.9	19.9
138269 2000 GY_{15}	15.9	X	354.49933	275.85782	198.07390	6.02432	0.1227502	0.23501219	2.6006133	20	—	—
138270 2000 GZ_{15}	15.3	X	67.13777	28.74400	8.74329	14.62436	0.1107961	0.23349089	2.6118972	20	—	—
138271 2000 GS_{16}	15.9	X	25.13064	345.98873	358.96793	2.04325	0.0768474	0.21938697	2.7226731	20	11 17.4	19.3
138272 2000 GX_{17}	16.5	X	348.42096	107.39573	25.62889	4.42044	0.1975414	0.23724377	2.5842796	20	—	—
138273 2000 GL_{19}	16.4	X	131.74390	152.47677	338.84427	1.84958	0.1159904	0.25536653	2.4605191	20	6 30.3	19.8
138274 2000 GY_{19}	16.4	X	332.19211	186.96349	11.80682	2.42249	0.0730831	0.24143368	2.5542936	20	2 6.3	19.5
138275 2000 GG_{20}	15.2	X	148.01673	125.69467	192.57577	11.80695	0.1910482	0.22996733	2.6385093	20	—	—
138276 2000 GL_{21}	16.8	X	84.38726	127.97799	170.81419	22.01860	0.0546976	0.36738189	1.9307419	20	—	—
138277 2000 GT_{23}	15.6	X	221.37880	112.58347	3.30152	2.58455	0.0338231	0.21561635	2.7543234	20	9 21.1	19.3
138278 2000 GY_{23}	15.6	X	29.69894	354.95617	349.08279	1.75394	0.2448152	0.21754933	2.7379839	20	12 17.3	19.1
138279 2000 GB_{24}	15.6	X	115.87845	166.28819	205.60879	3.18680	0.1561953	0.23521793	2.5990967	20	1 13.6	19.0
138280 2000 GC_{24}	15.2	X	47.38606	11.37523	13.29417	9.16255	0.2067768	0.22840720	2.6505104	20	—	—
138281 2000 GM_{25}	16.2	X	328.07751	151.14026	6.93279	2.33669	0.1100401	0.23607528	2.5928002	20	—	—
138282 2000 GA_{30}	15.0	X	145.84291	51.22506	198.78635	11.40921	0.1409756	0.22120383	2.7077441	20	12 8.6	19.5
138283 2000 GP_{30}	16.1	X	323.34776	52.46093	20.57938	2.03628	0.0668532	0.22370682	2.6875088	20	12 13.0	19.3
138284 2000 GS_{30}	15.9	X	334.22292	313.07412	186.85408	2.85590	0.1042673	0.23459466	2.6036981	20	—	—
138285 2000 GF_{31}	15.6	X	262.52348	27.07266	188.27955	4.62968	0.2314416	0.23305723	2.6151363	20	—	—
138286 2000 GO_{32}	16.4	X	272.29247	33.47961	64.91797	0.65457	0.1939774	0.27127024	2.3633858	20	10 24.5	18.7
138287 2000 GB_{33}	16.1	X	266.57048	269.16888	210.43784	6.06258	0.0991995	0.22280718	2.6947383	20	11 16.6	19.6
138288 2000 GH_{33}	16.6	X	311.54844	12.71330	211.98333	4.52473	0.1949982	0.24049504	2.5609354	20	1 22.5	20.0
138289 2000 GS_{33}	16.3	X	146.41603	31.26250	263.46204	1.21025	0.0677419	0.22752329	2.6573707	20	—	—
138290 2000 GW_{33}	16.3	X	35.91089	178.21199	321.34086	1.27545	0.0932856	0.24271222	2.5453155	20	2 23.8	18.9
138291 2000 GF_{34}	16.2	X	17.44644	250.64631	196.16258	5.21679	0.2215718	0.23517936	2.5993808	20	—	—
138292 2000 GE_{37}	16.3	X	83.03271	72.83347	12.14743	2.06247	0.1035013	0.24210273	2.5495856	20	2 25.8	19.3
138293 2000 GF_{37}	15.7	X	9.93762	308.63160	21.50502	4.07881	0.0749516	0.21427477	2.7658080	20	10 6.6	19.2
138294 2000 GC_{38}	15.9	X	280.71651	77.30670	51.60004	2.50442	0.0536420	0.22523099	2.6753707	20	12 24.5	19.3
138295 2000 GZ_{39}	14.9	X	234.01254	287.45036	199.49727	10.23361	0.0415865	0.16939647	3.2349419	20	10 12.3	19.5
138296 2000 GE_{40}	16.6	X	193.88950	77.11666	20.89678	5.44021	0.1616999	0.25932171	2.4354365	20	7 21.9	20.4
138297 2000 GQ_{41}	15.7	X	96.41112	233.81416	16.81366	9.17366	0.1082509	0.21463942	2.7626745	20	10 18.9	19.7
138298 2000 GG_{46}	16.5	X	55.33331	100.09115	31.44960	5.11767	0.1142670	0.24433765	2.5340147	20	3 20.0	19.3
138299 2000 GH_{46}	15.1	X	227.01717	29.49207	195.82622	11.69430	0.1275752	0.22911880	2.6450197	20	—	—
138300 2000 GX_{48}	16.5	X	33.78762	240.93392	16.80240	6.86374	0.2498529	0.20541928	2.8447356	20	9 2.2	19.8
138301 2000 GO_{49}	15.8	X	350.04088	87.10504	199.67516	10.51509	0.1143852	0.20399862	2.8579277	20	7 3.6	19.3
138302 2000 GH_{53}	16.3	X	325.50189	303.10767	209.59620	3.39043	0.2183856	0.23535180	2.5981110	20	—	—
138303 2000 GB_{54}	16.5	X	43.10038	303.41098	191.03696	3.41156	0.1723161	0.24349636	2.5398480	20	3 5.5	18.8
138304 2000 GE_{55}	16.2	X	174.13320	11.00673	204.41354	4.06658	0.2022143	0.22068950	2.7119495	20	11 20.2	20.6
138305 2000 GV_{57}	15.5	X	153.34330	168.84240	10.99936	4.86733	0.0875237	0.21363039	2.7713669	20	9 21.1	19.6
138306 2000 GK_{59}	16.3	X	299.27537	139.07434	118.19186	1.79935	0.1886703	0.19202890	2.9754888	20	2 26.6	20.4
138307 2000 GT_{59}	16.4	X	261.62661	29.50055	182.13188	3.35461	0.1231117	0.23192292	2.6236563	20	—	—
138308 2000 GN_{60}	15.6	X	88.45458	242.79737	24.44643	8.43953	0.2581962	0.21326845	2.7745016	20	11 12.3	20.3
138309 2000 GY_{60}	16.1	X	92.98865	180.37490	2.90516	2.24421	0.1525324	0.25536493	2.4605293	20	7 30.7	19.4
138310 2000 GH_{61}	16.0	X	262.33231	159.53522	5.32341	2.31252	0.0719028	0.22704363	2.6611121	20	—	—
138311 2000 GG_{63}	15.2	X	75.78039	188.68421	20.41672	11.24256	0.0746069	0.20599743	2.8394105	20	8 1.8	19.3
138312 2000 GY_{63}	15.8	X	104.62722	243.85091	29.46555	5.28890	0.1213852	0.21743039	2.7389823	20	11 25.5	20.1
138313 2000 GH_{69}	15.7	X	277.67629	327.70282	191.49143	3.35964	0.1232651	0.22797759	2.6538393	20	—	—
138314 2000 GG_{70}	15.1	X	57.54864	293.31193	17.32920	5.93614	0.1302825	0.21500531	2.7595393	20	11 21.3	19.0
138315 2000 GQ_{71}	15.3	X	324.34427	64.78010	36.78008	13.50630	0.0515151	0.22562943	2.6722201	20	—	—
138316 2000 GG_{73}	16.3	X	316.43365	332.49083	230.36185	2.19496	0.1600195	0.23811844	2.5779473	20	1 7.4	19.7
138317 2000 GN_{74}	15.0	X	85.98644	105.17430	208.72388	3.25228	0.1744706	0.21821527	2.7324106	20	12 30.5	19.3
138318 2000 GZ_{74}	15.9	X	298.78755	96.69731	49.53938	4.44425	0.1112075	0.22883043	2.6472413	20	—	—
138319 2000 GL_{77}	16.5	X	306.69161	162.42845	34.88297	3.11587	0.1174254	0.23644122	2.5901242	20	—	—
138320 2000 GR_{79}	15.8	X	280.91265	109.71550	30.88515	7.85983	0.1347946	0.22571192	2.6715689	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138321 2000 GJ_{80}	16.6	X	233.79544	201.82984	342.72720	2.19596	0.1477296	0.27488784	2.3426048	20	—	—
138322 2000 GP_{81}	15.6	X	326.69444	324.38747	202.06698	11.82899	0.1311684	0.23527362	2.5986865	20	—	—
138323 2000 GT_{81}	16.6	X	208.00614	198.93422	28.75246	23.11655	0.0517997	0.37347762	1.9096759	20	—	—
138324 2000 GC_{82}	16.3	X	253.31211	286.77165	209.16048	20.50810	0.0747002	0.36846366	1.9269611	20	—	—
138325 2000 GO_{82}	16.8	X	86.27397	164.41560	173.33666	25.72776	0.8049931	0.30997651	2.1623046	20	1 21.8	19.9
138326 2000 GX_{86}	16.5	X	335.20723	56.16465	118.98236	5.03407	0.1659452	0.23942282	2.5685756	20	—	—
138327 2000 GY_{89}	15.6	X	158.79935	231.05336	49.19530	12.41738	0.0250846	0.22790318	2.6544169	20	—	—
138328 2000 GC_{90}	15.9	X	315.29910	347.53120	170.51456	12.24816	0.0978888	0.23332137	2.6131622	20	—	—
138329 2000 GG_{90}	15.1	X	322.60146	39.97788	67.68952	22.76586	0.0204198	0.22763566	2.6564961	20	—	—
138330 2000 GE_{91}	14.8	X	144.73518	154.48841	50.58172	19.35162	0.0686607	0.21549185	2.7553841	20	10 19.2	19.0
138331 2000 GU_{93}	15.1	X	157.15156	140.56133	68.00669	12.68941	0.1517956	0.21815174	2.7329410	20	11 1.8	19.6
138332 2000 GJ_{94}	14.9	X	66.23340	268.17753	159.07381	14.64790	0.1043085	0.23603517	2.5930939	20	1 7.0	18.1
138333 2000 GK_{97}	16.0	X	254.21000	127.08966	79.47123	3.38576	0.1307218	0.23219770	2.6215860	20	—	—
138334 2000 GW_{98}	15.9	X	25.99124	178.85959	333.55081	4.46551	0.2041456	0.24407040	2.5358641	20	2 26.1	17.8
138335 2000 GW_{100}	15.9	X	200.40742	49.12407	142.19830	3.98422	0.0418196	0.22293966	2.6936707	20	12 1.4	19.6
138336 2000 GJ_{102}	15.6	X	203.42528	47.18014	205.54222	9.43520	0.1055927	0.22989910	2.6390313	20	—	—
138337 2000 GS_{104}	15.8	X	346.65258	359.57150	150.97901	4.99635	0.1319635	0.23715142	2.5849505	20	—	—
138338 2000 GC_{105}	16.1	X	7.13970	83.27358	58.77551	5.69662	0.1814109	0.23946163	2.5682981	20	1 2.5	18.5
138339 2000 GT_{105}	15.7	X	325.59709	160.10344	352.23172	4.03196	0.2167409	0.23531221	2.5984024	20	—	—
138340 2000 GB_{110}	16.4	X	181.12918	63.62204	94.42330	2.09805	0.1172682	0.26507826	2.4000483	20	9 28.5	19.8
138341 2000 GD_{110}	16.1	X	105.64853	71.40407	53.99276	4.32797	0.1308946	0.25108679	2.4883997	20	5 23.9	19.4
138342 2000 GF_{110}	16.0	X	339.86041	161.09030	30.16114	11.29203	0.1227165	0.24133682	2.5549770	20	2 4.8	19.2
138343 2000 GF_{112}	15.5	X	53.76054	101.59707	176.79900	12.81884	0.1969394	0.21170716	2.7881257	20	10 19.5	19.4
138344 2000 GN_{112}	15.3	X	6.14618	34.22291	18.78513	14.83353	0.0783364	0.22768791	2.6560897	20	—	—
138345 2000 GW_{112}	15.8	X	290.48139	300.52097	189.19940	13.83895	0.0338422	0.22666550	2.6640708	20	—	—
138346 2000 GL_{113}	15.7	X	300.60122	273.25865	234.20517	10.69648	0.2095104	0.23182441	2.6243995	20	—	—
138347 2000 GB_{114}	15.7	X	351.77934	183.73608	352.36264	6.00004	0.1424527	0.24114628	2.5563226	20	1 28.6	18.5
138348 2000 GN_{114}	15.7	X	320.46922	237.37988	293.16228	2.51436	0.1234780	0.23664228	2.5886568	20	—	—
138349 2000 GK_{115}	16.1	X	43.16640	11.38979	108.32719	3.55305	0.1587060	0.24350912	2.5397593	20	2 13.4	18.3
138350 2000 GT_{115}	15.7	X	200.11708	204.25800	24.56145	12.05164	0.1288602	0.22662298	2.6644041	20	—	—
138351 2000 GF_{116}	15.8	X	329.53901	353.01341	168.55667	7.84987	0.1133610	0.23650896	2.5896296	20	—	—
138352 2000 GS_{116}	15.0	X	115.02068	352.59902	354.25945	15.01640	0.2009741	0.23297794	2.6157296	20	—	—
138353 2000 GX_{117}	16.0	X	249.74257	75.54167	352.55493	7.95579	0.2294819	0.26632142	2.3925736	20	8 4.2	19.3
138354 2000 GF_{118}	16.1	X	342.68309	137.46968	0.16505	14.86189	0.0369712	0.23651531	2.5895832	20	—	—
138355 2000 GH_{118}	15.4	X	326.74169	79.91786	1.85142	13.40972	0.0639638	0.22736502	2.6586037	20	—	—
138356 2000 GW_{121}	15.4	X	5.09610	270.59297	101.25176	9.47646	0.1608932	0.21527733	2.7572142	20	12 5.5	18.7
138357 2000 GB_{123}	16.5	X	16.63773	22.96099	55.77767	22.92058	0.0884547	0.37802375	1.8943345	20	—	—
138358 2000 GL_{127}	15.5	X	203.85527	151.15364	99.03056	14.06056	0.1518320	0.22802493	2.6534719	20	—	—
138359 2000 GX_{127}	17.9	X	332.45121	4.73085	43.99923	20.23824	0.3612215	0.80824504	1.1414074	20	—	—
138360 2000 GA_{130}	16.7	X	41.55176	287.39072	159.32509	0.99171	0.0657410	0.23635130	2.5907811	20	—	—
138361 2000 GZ_{131}	16.4	X	100.14341	211.01520	185.08945	4.66218	0.0750164	0.23694492	2.5864521	20	1 11.6	19.8
138362 2000 GP_{132}	16.4	X	56.21535	8.41104	33.45183	21.34217	0.0676820	0.37719320	1.8971142	20	—	—
138363 2000 GO_{137}	15.3	X	309.48210	19.94459	91.58875	17.20304	0.0932658	0.22460520	2.6803377	20	—	—
138364 2000 GU_{138}	14.9	X	40.58044	337.61196	126.88656	8.55493	0.1790804	0.23983763	2.6656131	20	1 17.3	17.1
138365 2000 GG_{139}	14.9	X	103.89635	226.96900	99.78032	10.61572	0.2507138	0.22292635	2.6937779	20	—	—
138366 2000 GH_{139}	15.4	X	79.55563	239.85785	63.11729	15.10512	0.0857972	0.21911936	2.7248894	20	12 2.7	19.3
138367 2000 GJ_{139}	16.0	X	20.49033	82.03294	70.59291	9.39643	0.1197998	0.24221890	2.5487703	20	2 20.5	18.8
138368 2000 GE_{140}	15.4	X	78.40693	187.54721	108.87031	5.86198	0.2419934	0.21524480	2.7574921	20	12 9.0	19.8
138369 2000 GL_{140}	16.2	X	174.92780	41.18621	109.24444	3.51276	0.1323306	0.26292373	2.4131419	20	9 11.4	19.8
138370 2000 GS_{143}	15.5	X	191.49549	156.42590	55.71981	11.69197	0.0457158	0.22262884	2.6961772	20	12 14.5	19.4
138371 2000 GK_{144}	15.8	X	294.44071	287.50313	14.08834	1.57545	0.0775550	0.19867139	2.9087908	20	5 1.5	19.5
138372 2000 GN_{144}	15.7	X	279.63697	15.49307	18.99004	1.06984	0.1102570	0.21011425	2.8021995	20	8 9.6	19.1
138373 2000 GQ_{150}	15.4	X	134.11259	194.20019	185.60016	4.94263	0.3025404	0.23934460	2.5691352	20	2 27.3	19.6
138374 2000 GA_{151}	16.8	X	43.36994	110.96894	187.23176	2.17783	0.1620391	0.21323934	2.7747540	20	10 25.1	20.5
138375 2000 GS_{151}	16.3	X	27.11830	95.24365	14.21713	3.43339	0.0874640	0.23598957	2.5934279	20	—	—
138376 2000 GV_{152}	15.7	X	350.37552	191.84338	297.61443	3.62198	0.1688763	0.23608985	2.5926935	20	—	—
138377 2000 GX_{153}	15.6	X	225.27128	132.89536	1.44917	23.95897	0.2058288	0.26976555	2.3721659	20	10 1.9	19.0
138378 2000 GP_{154}	16.4	X	230.95887	279.48529	299.47930	4.85115	0.1540622	0.22969883	2.6405650	20	—	—
138379 2000 GD_{157}	15.8	X	49.78158	156.04250	206.53935	5.48455	0.0410178	0.22224225	2.6993030	20	—	—
138380 2000 GM_{157}	15.0	X	173.00069	308.70522	268.46556	11.66861	0.1459966	0.22341025	2.6898867	20	11 23.3	19.4
138381 2000 GL_{162}	15.2	X	272.48378	147.24072	63.18350	14.94260	0.1447766	0.23550780	2.5969635	20	—	—
138382 2000 GM_{162}	15.2	X	358.43045	89.54405	31.39693	14.09651	0.0841192	0.23646409	2.5899572	20	—	—
138383 2000 GA_{163}	15.4	X	58.40644	193.36127	94.32682	10.97997	0.2022811	0.21226027	2.7832801	20	11 7.9	19.6
138384 2000 GJ_{164}	16.6	X	336.59980	224.61239	299.19767	1.37537	0.1407378	0.23934162	2.5691566	20	—	—
138385 2000 GZ_{168}	16.4	X	268.46773	140.85701	51.59823	22.56849	0.0270475	0.37854567	1.8925929	20	—	—
138386 2000 GF_{169}	15.2	X	78.90851	247.43614	56.20124	13.94142	0.1740373	0.21723179	2.7406514	20	12 10.6	19.5
138387 2000 GY_{172}	14.5	X	67.53990	339.09775	33.36375	14.11245	0.1683829	0.22864409	2.6486794	20	—	—
138388 2000 GX_{173}	13.6	X	282.60563	190.36694	265.40671	7.69560	0.1342990	0.12545224	3.9520014	20	10 11.1	19.0
138389 2000 GS_{174}	15.9	X	308.59287	245.68482	206.21559	1.64329	0.0655917	0.22333271	2.6905092	20	12 15.7	19.2
138390 2000 GB_{175}	16.1	X	298.88986	304.14860	187.50170	3.45610	0.0293798	0.22643572	2.6658728	20	—	—
138391 2000 GK_{177}	16.1	X	68.13450	158.58416	168.26592	3.95690	0.0739014	0.22391284	2.6858601	20	12 19.6	19.9
138392 2000 HY	15.3	X	265.85495	84.64456	28.05560	4.18381	0.1142169	0.22000737	2.7175522	20	11 2.6	18.7
138393 2000 HF_{3}	15.8	X	72.21002	7.00897	37.65326	8.88811	0.1890318	0.23193750	2.6235463	20	—	—
138394 2000 HA_{4}	15.9	X	313.73879	225.71199	219.05050	1.84535	0.0417441	0.22068192	2.7120116	20	12 13.5	19.3
138395 2000 HD_{5}	15.8	X	31.61335	271.79318	221.67960	28.64333	0.1749775	0.24002724	2.5642618	20	1 29.6	19.2
138396 2000 HV_{7}	15.3	X	204.07335	98.93273	47.67088	9.47585	0.0877865	0.21620637	2.7493101	20	10 7.0	19.4
138397 2000 HB_{11}	15.4	X	203.06089	100.78568	62.52869	4.17062	0.1019506	0.21732972	2.7398280	20	10 23.3	19.4
138398 2000 HG_{11}	15.5	X	80.61904	196.61533	79.31766	3.17848	0.1540141	0.21296341	2.7771503	20	11 8.4	19.6
138399 2000 HK_{11}	15.5	X	100.75344	54.32363	20.05531	15.07362	0.1246928	0.24299031	2.5433731	20	3 15.2	18.9
138400 2000 HL_{12}	15.5	X	248.10353	195.66563	40.41523	16.21536	0.0893877	0.23172961	2.6251152	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138401 2000 HB_{13}	14.9	X	98.42611	88.46215	231.36153	16.60218	0.1890449	0.21940213	2.7225477	20	—	—
138402 2000 HN_{14}	16.4	X	111.40825	287.63920	130.84730	7.15181	0.1541477	0.38722945	1.8641912	20	2 17.5	17.6
138403 2000 HM_{21}	15.5	X	296.19997	120.71240	71.05823	8.27241	0.1458230	0.23376955	2.6098212	20	—	—
138404 2000 HA_{24}	19.1	X	282.13665	142.14575	309.39859	2.16496	0.3186730	0.81085923	1.1389528	20	—	—
138405 2000 HV_{24}	15.6	X	52.50959	94.01154	33.75852	18.00061	0.1306008	0.24196436	2.5505575	20	3 19.6	18.6
138406 2000 HN_{27}	14.8	X	193.35350	339.70575	207.86550	36.04034	0.1362046	0.22125263	2.7073460	20	11 8.2	19.1
138407 2000 HR_{27}	16.5	X	227.88191	299.46059	222.86194	21.08918	0.0705685	0.36844865	1.9270134	20	12 30.5	18.7
138408 2000 HY_{28}	15.7	X	242.96497	75.66627	83.89844	22.85286	0.2442660	0.27593266	2.3366875	20	11 29.5	18.5
138409 2000 HH_{30}	15.4	X	117.42846	124.31826	152.90920	13.53118	0.2023327	0.21844052	2.7305319	20	12 17.2	20.2
138410 2000 HV_{31}	15.1	X	269.43761	39.62158	92.13247	22.85749	0.0594393	0.22300011	2.6931838	20	12 12.8	18.6
138411 2000 HY_{33}	16.6	X	190.49354	53.36549	193.64852	21.93727	0.0265465	0.37675526	1.8985841	20	—	—
138412 2000 HD_{34}	15.3	X	187.88130	219.92332	356.51219	12.86447	0.1077931	0.22557645	2.6726384	20	12 9.4	19.5
138413 2000 HW_{39}	15.5	X	78.23750	185.38849	183.53158	13.25856	0.2726610	0.23139580	2.6276392	20	—	—
138414 2000 HY_{41}	15.9	X	35.98648	254.35333	223.83431	3.25782	0.1629699	0.24096502	2.5576044	20	1 26.1	18.3
138415 2000 HM_{44}	16.0	X	188.96092	183.85787	72.98864	5.46790	0.1647396	0.22620888	2.6676547	20	—	—
138416 2000 HB_{45}	16.3	X	241.77074	118.02559	115.56585	2.93383	0.1374284	0.23135341	2.6279602	20	—	—
138417 2000 HN_{48}	16.2	X	251.56899	225.32787	349.61356	1.48857	0.1458630	0.22977858	2.6399539	20	—	—
138418 2000 HZ_{48}	15.5	X	328.93672	142.56133	48.71834	10.41227	0.1421443	0.23792586	2.5793382	20	1 13.9	18.8
138419 2000 HU_{56}	15.4	X	272.37549	85.12720	200.41604	13.61797	0.2561696	0.19029340	2.9935527	20	2 20.4	20.5
138420 2000 HA_{57}	15.3	X	35.90208	114.05906	54.59116	14.35871	0.1307060	0.24484061	2.5305431	20	4 14.1	18.0
138421 2000 HJ_{59}	16.2	X	43.49917	230.99826	22.28548	6.60161	0.1729034	0.25439757	2.4667629	20	9 5.6	19.1
138422 2000 HP_{60}	15.9	X	214.35473	205.00039	26.30656	3.99878	0.0357105	0.22727908	2.6592739	20	—	—
138423 2000 HB_{64}	16.3	X	62.23883	119.07384	25.82151	6.34743	0.1443913	0.24693836	2.5161914	20	4 21.6	18.9
138424 2000 HP_{66}	16.1	X	341.74084	65.42795	36.13149	2.53598	0.0744770	0.22789983	2.6544428	20	—	—
138425 2000 HV_{68}	15.5	X	42.29421	320.83517	30.56903	7.07046	0.1941154	0.21764291	2.7371989	20	—	—
138426 2000 HY_{69}	15.3	X	100.58876	4.46754	226.31805	11.71924	0.1011344	0.21262263	2.7801169	20	9 25.2	19.6
138427 2000 HG_{75}	14.9	X	84.12519	123.16763	205.57707	16.66068	0.1459687	0.22010952	2.7167113	20	—	—
138428 2000 HG_{77}	15.1	X	213.97815	251.06116	55.73515	14.65172	0.1526737	0.24073629	2.5592243	20	2 4.9	19.5
138429 2000 HP_{77}	15.4	X	346.54431	357.08210	123.24134	14.45572	0.1080607	0.23514030	2.5996687	20	—	—
138430 2000 HS_{80}	15.4	X	109.33654	68.39207	131.45675	7.83065	0.1056025	0.20891647	2.8128998	20	8 31.6	19.5
138431 2000 HZ_{81}	15.2	X	25.22541	320.55028	38.18387	9.78538	0.1784847	0.21680708	2.7442294	20	12 19.3	18.8
138432 2000 HM_{82}	15.9	X	270.85944	272.36684	196.61988	3.31429	0.0575695	0.21910758	2.7249871	20	11 13.5	19.4
138433 2000 HV_{82}	16.0	X	258.94689	193.53677	23.98009	4.41490	0.0775855	0.23109880	2.6298900	20	—	—
138434 2000 HF_{83}	16.1	X	345.39005	177.30521	64.16844	4.12020	0.1179827	0.24500734	2.5293950	20	4 21.7	18.6
138435 2000 HX_{87}	15.2	X	96.20837	238.49515	60.34628	9.77470	0.1207458	0.21823082	2.7322807	20	12 18.2	19.4
138436 2000 HA_{89}	16.1	X	35.44366	252.52542	210.72777	10.10325	0.1005529	0.23617642	2.5920598	20	1 3.8	19.1
138437 2000 HN_{89}	14.6	X	27.51567	286.22454	50.49809	20.79595	0.2186994	0.21184967	2.7868752	20	11 27.3	18.2
138438 2000 HG_{95}	15.9	X	292.53418	278.46986	298.66192	5.18958	0.2099467	0.23717599	2.5847720	20	—	—
138439 2000 HD_{98}	15.9	X	64.29906	205.40933	200.18223	13.42676	0.0975091	0.23145564	2.6271863	20	—	—
138440 2000 HP_{99}	15.6	X	105.16493	209.58201	20.53191	13.65117	0.1723707	0.21241064	2.7819663	20	10 9.4	19.9
138441 2000 HB_{100}	15.7	X	124.39762	49.55884	174.45392	7.77665	0.1951561	0.21384596	2.7695042	20	10 21.3	20.3
138442 2000 HN_{103}	14.9	X	54.58824	201.60214	124.34526	10.32759	0.1449354	0.21687034	2.7436957	20	12 11.6	18.9
138443 2000 HR_{104}	15.7	X	77.19627	244.17769	89.47830	6.79979	0.0294945	0.22030844	2.7150758	20	—	—
138444 2000 JS_{1}	15.8	X	338.76220	155.56863	52.49536	11.44077	0.0658630	0.24151097	2.5537486	20	3 6.1	19.1
138445 Westenburger	16.4	X	142.30923	199.13302	74.87123	4.71722	0.1406178	0.27190888	2.3596837	20	—	—
138446 2000 JP_{4}	15.6	X	57.03453	279.35611	140.17467	12.31249	0.1180695	0.23057592	2.6338644	20	—	—
138447 2000 JQ_{6}	15.3	X	119.86614	170.76885	96.60912	13.79536	0.1584128	0.21749354	2.7384521	20	12 6.6	19.9
138448 2000 JV_{7}	16.1	X	347.90983	72.05973	40.05318	5.91910	0.1673284	0.23159237	2.6261521	20	—	—
138449 2000 JF_{8}	15.6	X	106.26580	195.34752	103.95055	3.28255	0.0539480	0.22169271	2.7037619	20	12 26.2	19.6
138450 2000 JQ_{8}	16.4	X	266.90353	296.19321	195.88955	21.82921	0.0420727	0.36664637	1.9333232	20	—	—
138451 2000 JR_{9}	15.4	X	242.19082	83.61601	196.00573	16.53099	0.2588762	0.18392424	3.0622694	20	1 21.4	21.0
138452 2000 JO_{10}	15.1	X	183.68918	92.01756	57.08744	22.22981	0.2968326	0.26342387	2.4100865	20	9 22.4	19.8
138453 2000 JO_{11}	14.9	X	82.14274	53.17472	248.24545	6.02682	0.0690157	0.21674760	2.7447314	20	12 2.1	18.8
138454 2000 JQ_{11}	15.8	X	344.28057	300.82246	242.87951	10.30681	0.2187924	0.23933126	2.5692307	20	1 11.2	18.8
138455 2000 JQ_{13}	15.5	X	92.73971	198.13366	70.88131	5.21620	0.0549971	0.21457250	2.7632489	20	11 3.4	19.4
138456 2000 JD_{21}	15.4	X	99.89553	270.30369	17.27447	9.42584	0.1410416	0.21773016	2.7364677	20	12 8.8	19.8
138457 2000 JN_{23}	15.4	X	208.27552	221.40314	338.08013	7.27026	0.2332227	0.22351798	2.6890223	20	11 26.7	19.9
138458 2000 JS_{24}	15.0	X	80.66214	86.22607	21.91941	15.70617	0.1373453	0.24333672	2.5409588	20	3 31.9	18.1
138459 2000 JQ_{31}	15.2	X	85.05942	232.45081	39.19637	5.56032	0.1366410	0.21271830	2.7792832	20	11 5.0	19.4
138460 2000 JP_{33}	15.6	X	243.84322	340.16981	237.77243	12.96093	0.1968784	0.22849264	2.6498497	20	—	—
138461 2000 JA_{35}	15.8	X	99.63474	60.87119	229.38093	10.55677	0.0581281	0.21792323	2.7348512	20	12 7.4	19.7
138462 2000 JO_{41}	16.3	X	200.36598	42.21813	183.27248	2.35695	0.0638397	0.22495944	2.6775231	20	—	—
138463 2000 JV_{41}	16.1	X	254.99617	6.58136	213.49749	12.97160	0.1213053	0.23122530	2.6289308	20	—	—
138464 2000 JJ_{42}	16.4	X	334.80997	265.65637	42.72250	9.80680	0.3271729	0.20026965	2.8932944	20	6 14.1	18.7
138465 2000 JV_{42}	16.2	X	327.28330	355.30998	216.18402	8.15706	0.1050874	0.23959049	2.5673771	20	2 7.7	19.6
138466 2000 JO_{43}	15.7	X	234.18556	276.42818	223.44862	4.12449	0.0702921	0.21752119	2.7382200	20	11 1.9	19.4
138467 2000 JL_{44}	15.6	X	149.52407	194.76681	60.99309	9.42283	0.0863247	0.22001532	2.7174868	20	12 18.9	19.7
138468 2000 JW_{44}	16.8	X	175.53077	111.91817	43.98824	0.90833	0.1491709	0.26154817	2.4215954	20	9 17.0	20.6
138469 2000 JJ_{56}	15.2	X	88.81284	167.84231	83.36376	9.25841	0.1746601	0.21047901	2.7989610	20	10 22.6	19.6
138470 2000 JF_{60}	15.8	X	314.94750	285.53476	284.86822	2.35767	0.1741897	0.23804673	2.5784650	20	1 13.3	19.0
138471 2000 JC_{75}	15.1	X	175.38323	291.73696	9.91003	27.00930	0.0223206	0.23270182	2.6177984	20	—	—
138472 2000 JB_{77}	15.8	X	111.01499	301.46721	51.95904	4.59098	0.1103842	0.22736130	2.6586328	20	—	—
138473 2000 JT_{78}	15.6	X	21.01777	181.89584	204.25936	13.83891	0.0695955	0.22369246	2.6876238	20	—	—
138474 2000 JP_{79}	16.1	X	228.71425	45.78490	91.51286	3.31061	0.1664179	0.26878239	2.3779470	20	10 20.1	19.1
138475 2000 JD_{84}	15.0	X	94.36914	245.51358	200.53446	12.56890	0.1591661	0.24097162	2.5575578	20	3 20.6	18.4
138476 2000 JJ_{85}	15.5	X	209.17026	328.34027	235.00367	10.99407	0.1296676	0.22468480	2.6797046	20	12 15.2	19.5
138477 2000 JY_{86}	14.6	X	158.98692	263.19656	72.68424	18.30190	0.2717564	0.17977802	3.1091737	20	2 3.2	20.2
138478 2000 JF_{87}	16.0	X	16.37667	281.64730	118.86838	2.76369	0.0327617	0.22519762	2.6756349	20	—	—
138479 2000 KU_{2}	14.7	X	253.05546	122.77871	146.07787	17.64197	0.3305251	0.18246317	3.0785951	20	1 15.9	20.3
138480 2000 KZ_{2}	16.9	X	219.33108	134.44588	73.87014	23.30654	0.0535037	0.37066108	1.9193377	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138481 2000 KD_3	15.3	X	116.20089	107.43418	231.52840	10.24809	0.3164064	0.22195966	2.7015935	20	—	—
138482 2000 KR_4	17.0	X	279.78451	268.98456	236.40123	20.14559	0.0741196	0.37063461	1.9194291	20	—	—
138483 2000 KT_7	16.1	X	234.36570	75.54659	146.55237	2.90045	0.1440438	0.22691386	2.6621266	20	—	—
138484 2000 KD_9	15.2	X	143.92135	126.54260	62.85475	8.75329	0.1547660	0.21253379	2.7808916	20	9 28.1	19.8
138485 2000 KY_9	15.6	X	60.18172	212.42017	235.44101	16.88006	0.1248911	0.23579505	2.5948540	20	1 21.9	18.9
138486 2000 KH_{11}	15.8	X	126.35282	19.47887	240.45907	4.11368	0.0800596	0.21718615	2.7410353	20	11 30.2	19.8
138487 2000 KF_{15}	15.8	X	292.10535	114.31592	62.60252	12.30559	0.1313567	0.23021996	2.6365787	20	—	—
138488 2000 KY_{16}	15.2	X	131.30414	357.38963	240.77571	11.24029	0.1325563	0.21492932	2.7601897	20	11 9.2	19.5
138489 2000 KL_{17}	16.3	X	204.69097	29.89117	154.76663	1.53324	0.1245518	0.26803666	2.3823556	20	11 27.0	19.3
138490 2000 KK_{20}	15.9	X	354.65550	332.93684	235.73426	3.03351	0.1717447	0.24214160	2.5493127	20	3 13.6	18.2
138491 2000 KE_{27}	14.9	X	17.38290	125.00823	250.13554	7.77886	0.1662683	0.21424416	2.7660714	20	12 27.2	18.3
138492 2000 KF_{34}	15.1	X	35.55614	271.91098	77.91835	8.84078	0.2198224	0.21411384	2.7671937	20	12 27.1	18.8
138493 2000 KQ_{35}	16.4	X	330.63673	99.20070	130.20375	4.11818	0.1750773	0.24065493	2.5598010	20	3 1.7	19.3
138494 2000 KD_{37}	15.7	X	0.25960	293.89901	36.42733	4.48424	0.1063569	0.20943537	2.8082517	20	9 24.9	19.0
138495 2000 KG_{37}	15.8	X	331.13682	333.06535	39.24506	5.68744	0.1702823	0.21104893	2.7939199	20	10 3.2	18.5
138496 2000 KE_{38}	16.3	X	68.39703	162.50910	121.60688	4.40932	0.0578855	0.21191952	2.7862628	20	10 24.9	20.2
138497 2000 KS_{42}	15.9	X	169.30091	250.31179	230.44448	8.04895	0.1945840	0.25717384	2.4489779	20	7 23.7	20.1
138498 2000 KV_{42}	15.7	X	16.07443	293.23983	44.55957	4.00563	0.0990440	0.21286239	2.7780289	20	10 28.6	18.9
138499 2000 KE_{43}	15.8	X	72.47815	95.44791	235.06554	3.51823	0.1032454	0.21857389	2.7294210	20	12 30.7	19.7
138500 2000 KF_{51}	15.8	X	79.62967	76.14871	235.30236	2.28554	0.1079443	0.21727211	2.7403123	20	12 15.7	19.9
138501 2000 KH_{52}	15.8	X	14.33208	82.27731	76.34558	6.29398	0.2210900	0.24152691	2.5536363	20	2 10.0	17.9
138502 2000 KQ_{52}	15.5	X	66.19338	76.94253	194.90260	7.22674	0.1952258	0.21035558	2.8000558	20	10 23.6	19.6
138503 2000 KC_{58}	15.9	X	229.78759	69.59763	112.27136	7.90204	0.1515334	0.27261775	2.3555914	20	12 22.1	18.7
138504 2000 KW_{62}	15.9	X	181.86440	77.21443	118.70459	8.83221	0.1925775	0.26701624	2.3884213	20	11 13.4	19.8
138505 2000 KY_{63}	15.2	X	217.41134	344.04595	182.08893	14.03214	0.1373868	0.21967643	2.7202809	20	11 9.2	19.3
138506 2000 KP_{64}	16.0	X	214.51858	87.83128	113.41112	4.45300	0.2338856	0.22411885	2.6842139	20	12 6.8	20.2
138507 2000 KA_{68}	15.6	X	162.74495	66.65282	137.84610	3.26504	0.0548468	0.21558438	2.7545956	20	11 2.4	19.6
138508 2000 KO_{69}	16.3	X	202.20687	342.74683	161.26242	23.30837	0.0553287	0.35964908	1.9583189	20	11 2.4	18.9
138509 2000 KO_{72}	15.0	X	205.67300	163.72361	149.09136	17.91092	0.0916066	0.18432204	3.0578619	20	2 5.5	19.8
138510 2000 KT_{73}	16.0	X	262.20897	120.21263	172.35509	8.76653	0.2181209	0.23839361	2.5759631	20	2 21.2	20.0
138511 2000 KZ_{82}	15.1	X	316.22435	46.63353	180.65980	6.29164	0.0990339	0.19008222	2.9957694	20	2 22.7	19.0
138512 2000 LE_3	13.8	X	215.28372	18.65562	269.07219	34.73838	0.3314733	0.17500446	3.1654586	20	1 8.6	19.9
138513 2000 LT_6	15.6	X	57.12806	192.38119	208.95111	8.09254	0.1439999	0.22626117	2.6672437	20	—	—
138514 2000 LA_{10}	16.3	X	215.05004	137.55694	81.44026	24.65833	0.0554684	0.36984850	1.9221479	20	—	—
138515 2000 LN_{24}	15.4	X	236.94429	122.42631	124.49756	16.44101	0.3476718	0.17909119	3.1171179	20	—	—
138516 2000 LM_{32}	15.7	X	219.56973	70.16730	178.56808	8.28288	0.1312862	0.22851339	2.6496892	20	—	—
138517 2000 LO_{32}	15.8	X	241.13883	72.70158	187.33232	7.71810	0.2343096	0.18155411	3.0888630	20	1 2.7	21.2
138518 2000 NB_7	15.6	X	241.22286	235.73947	155.39298	6.67376	0.0719270	0.19291673	2.9663527	20	6 20.4	19.9
138519 2000 NE_{12}	15.3	X	216.85659	71.47319	240.63293	14.44116	0.3643707	0.17962635	3.1109237	20	2 4.9	21.4
138520 2000 NK_{14}	14.1	X	287.62622	309.44639	308.94538	14.80728	0.1595007	0.18226551	3.0808204	20	2 16.1	18.7
138521 2000 NL_{18}	14.9	X	184.10415	277.94657	115.86273	10.56358	0.1233333	0.18363127	3.0655256	20	4 25.8	19.9
138522 2000 NW_{19}	13.7	X	185.98461	90.81220	302.18796	14.99587	0.2520956	0.18158075	3.0885610	20	4 15.3	19.4
138523 2000 NL_{20}	14.4	X	174.91304	20.80508	289.08510	16.22611	0.1787220	0.17381168	3.1799241	20	1 9.7	19.7
138524 2000 OJ_8	16.8	X	132.13214	181.25582	226.59925	6.24460	0.5677291	0.27244120	2.3566090	20	4 15.5	21.6
138525 2000 OP_8	16.8	X	237.10896	76.81608	128.05500	23.28683	0.0603418	0.36744837	1.9305090	20	—	—
138526 2000 OR_8	16.0	X	238.08322	44.70862	131.21264	23.57225	0.0526738	0.36282414	1.9468774	20	—	—
138527 2000 OJ_{20}	14.7	X	175.30410	60.54986	288.85943	17.31889	0.1784342	0.17840280	3.1251313	20	2 16.6	20.1
138528 2000 OX_{21}	14.7	X	291.68324	340.91059	320.05987	12.80239	0.1346328	0.18891585	3.0080874	20	4 12.5	19.1
138529 2000 OB_{31}	14.4	X	209.36337	95.65146	275.20595	9.75817	0.2177376	0.18368463	3.0649319	20	4 10.3	19.9
138530 2000 OJ_{34}	14.3	X	228.08762	81.06114	283.31898	8.38296	0.2013997	0.18561614	3.0436325	20	4 19.4	19.5
138531 2000 OC_{38}	14.1	X	175.35624	128.30780	267.97875	15.26329	0.2182113	0.18143163	3.0902531	20	4 12.7	19.6
138532 2000 OA_{40}	15.0	X	237.43405	72.60780	241.23552	10.52735	0.1685484	0.18307230	3.0717624	20	2 29.1	20.2
138533 2000 OF_{40}	14.3	X	132.88912	119.02493	274.59376	10.74849	0.0781909	0.17631153	3.1497947	20	2 22.2	19.1
138534 2000 OT_{41}	14.9	X	229.41598	133.96813	197.18681	9.35382	0.0968121	0.18279699	3.0748459	20	3 21.2	19.7
138535 2000 OO_{57}	14.7	X	268.87854	321.00976	328.73676	5.00556	0.1547194	0.18449403	3.0559613	20	3 6.7	19.3
138536 2000 OZ_{59}	15.0	X	241.75902	101.87287	237.36931	3.15104	0.1606074	0.18514369	3.0488082	20	4 7.1	19.8
138537 2000 OK_{67}	6.2	X	358.15992	357.78184	4.37487	4.87709	0.1437006	0.00308205	46.7637734	20	9 23.2	22.2
138538 2000 PL_3	16.5	X	143.26481	261.20542	312.53077	16.54018	0.0714111	0.35543558	1.9737650	20	11 9.9	19.3
138539 2000 PB_6	14.5	X	187.89116	122.85166	186.36760	25.85642	0.2757313	0.17528406	3.1620915	20	1 18.3	20.6
138540 2000 PZ_{14}	14.4	X	180.33184	256.07901	120.07872	14.54054	0.1995869	0.18136236	3.0910399	20	4 4.1	19.9
138541 2000 PV_{20}	15.4	X	183.26193	179.61386	106.43185	10.51634	0.1327706	0.21962722	2.7206872	20	—	—
138542 2000 PK_{25}	15.5	X	275.73748	188.19365	81.87256	1.28643	0.2245762	0.18216815	3.0819181	20	2 13.3	20.2
138543 2000 QR_6	14.6	X	146.23359	219.30548	157.69388	3.46886	0.2370637	0.17308119	3.1888650	20	3 5.7	19.9
138544 2000 QY_9	14.6	X	288.64905	30.35732	306.64920	10.86126	0.1621569	0.19265297	2.9690596	20	5 25.9	18.8
138545 2000 QD_{11}	14.9	X	233.14655	178.42040	144.68304	11.11740	0.1393492	0.18295132	3.0731165	20	3 15.7	19.8
138546 2000 QM_{12}	15.4	X	221.51528	220.44548	126.54208	2.29950	0.2072404	0.18313508	3.0710604	20	3 28.6	20.6
138547 2000 QA_{15}	15.2	X	261.41782	214.09048	71.16506	1.08783	0.2059503	0.18253310	3.0778088	20	2 19.6	20.2
138548 2000 QN_{16}	15.0	X	163.42956	78.04562	339.75426	9.03608	0.1078559	0.18285556	3.0741892	20	4 26.1	19.9
138549 2000 QY_{21}	15.0	X	201.71142	137.79077	170.69112	16.36611	0.2073460	0.17475040	3.1685259	20	1 27.5	20.6
138550 2000 QD_{31}	14.4	X	141.50037	226.25598	133.23457	14.18796	0.2588316	0.17225087	3.1991046	20	2 13.2	19.6
138551 2000 QF_{32}	14.9	X	131.95109	275.84665	88.02970	6.13029	0.1617880	0.17131362	3.2107620	20	2 2.0	19.8
138552 2000 QF_{33}	14.9	X	248.99725	265.15019	49.35017	9.90568	0.2389936	0.18293222	3.0733304	20	3 15.1	20.1
138553 2000 QZ_{40}	14.5	X	181.48108	260.17695	163.67433	9.31120	0.1337270	0.18552478	3.0446317	20	5 27.0	19.5
138554 2000 QN_{44}	15.7	X	304.53475	238.49361	122.15504	2.79443	0.1123342	0.19460626	2.9491589	20	7 30.0	19.1
138555 2000 QS_{44}	15.7	X	238.09933	253.91057	129.66687	4.35989	0.1890926	0.18746890	3.0235459	20	5 26.8	20.5
138556 2000 QC_{47}	15.1	X	220.13030	219.97305	132.59308	3.23405	0.1802389	0.18243899	3.0788671	20	4 4.6	20.1
138557 2000 QS_{47}	14.8	X	136.00206	242.66557	158.53085	1.79986	0.2380047	0.17466157	3.1696001	20	3 25.3	19.9
138558 2000 QP_{51}	15.4	X	272.84165	150.42874	154.74635	6.09317	0.2671417	0.18669955	3.0318464	20	3 18.4	20.2
138559 2000 QZ_{56}	15.6	X	176.26692	301.78768	96.36505	2.64714	0.1701505	0.18078071	3.0976665	20	4 21.1	20.6
138560 2000 QM_{59}	15.1	X	225.40126	318.20646	0.86874	15.53148	0.2055392	0.18061130	3.0996032	20	3 2.5	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138561 2000 QY_{66}	16.6	X	208.84767	247.57375	117.61185	3.48553	0.2326419	0.28037276	2.3119521	20	4 4.5	20.4
138562 2000 QC_{68}	14.9	X	207.61203	343.62161	24.38920	9.36934	0.2186109	0.18049227	3.1009658	20	4 10.2	20.3
138563 2000 QE_{69}	14.4	X	160.81158	66.57636	303.14098	20.83679	0.1483559	0.17815869	3.1279853	20	2 24.5	19.6
138564 2000 QH_{74}	15.1	X	139.26164	95.12428	326.35035	8.22005	0.3060145	0.17555739	3.1588086	20	4 20.8	20.8
138565 2000 QG_{76}	14.4	X	130.63519	61.31929	333.58557	14.39971	0.1545992	0.17346176	3.1841991	20	3 3.8	19.2
138566 2000 QS_{78}	14.9	X	178.58284	23.93593	330.64253	6.52450	0.1601508	0.17572595	3.1567882	20	3 1.7	20.2
138567 2000 QU_{79}	15.3	X	241.42188	346.69416	344.26180	1.78505	0.1851110	0.18213334	3.0823107	20	3 26.8	20.2
138568 2000 QK_{81}	15.0	X	261.71237	131.98252	167.57513	9.82233	0.0518856	0.18097957	3.0953969	20	3 25.1	19.4
138569 2000 QQ_{81}	14.9	X	176.24662	10.30956	338.12867	8.67236	0.0808790	0.17524292	3.1625864	20	2 20.1	19.8
138570 2000 QS_{84}	16.4	X	286.02777	130.89884	233.36807	2.90941	0.1278332	0.29248387	2.2476815	20	7 9.8	18.9
138571 2000 QY_{87}	14.5	X	238.33074	352.61220	323.01449	14.91331	0.0519014	0.18018781	3.1044579	20	3 11.6	19.3
138572 2000 QV_{92}	14.4	X	138.46831	152.99158	273.16711	3.19596	0.1418064	0.17710835	3.1403401	20	4 16.5	19.3
138573 2000 QB_{107}	14.8	X	153.88394	49.39597	287.93669	4.53028	0.1358561	0.17137942	3.2099402	20	1 19.7	19.8
138574 2000 QS_{109}	15.1	X	285.89671	126.94416	151.52159	10.44366	0.0596224	0.18281344	3.0746614	20	3 28.5	19.4
138575 2000 QG_{114}	14.9	X	119.22782	28.89861	16.46737	4.38516	0.1763184	0.17238168	3.1974859	20	3 9.9	19.8
138576 2000 QU_{114}	15.0	X	195.28950	227.09786	161.94658	11.10422	0.1397666	0.18084624	3.0969182	20	4 28.9	20.1
138577 2000 QX_{122}	14.0	X	158.44302	210.28783	190.60531	28.18981	0.1922152	0.17534498	3.1613590	20	4 9.9	19.3
138578 2000 QL_{124}	14.4	X	133.71180	193.72008	198.27131	10.55426	0.1093780	0.17201582	3.2020181	20	2 27.2	19.3
138579 2000 QA_{132}	14.6	X	206.88277	22.98973	321.69219	16.65678	0.1956169	0.18170927	3.0871044	20	3 8.4	20.0
138580 2000 QC_{132}	14.1	X	196.27608	77.53592	326.11344	16.87609	0.2636085	0.18467193	3.0539983	20	5 5.4	19.8
138581 2000 QQ_{133}	15.3	X	186.79384	343.06800	7.87342	2.81427	0.2565446	0.17849310	3.1240772	20	3 6.6	20.8
138582 2000 QP_{134}	14.9	X	228.37760	250.17158	116.28436	5.78893	0.1771063	0.18533671	3.0466911	20	4 29.4	19.9
138583 2000 QF_{136}	14.9	X	203.93615	201.38679	158.26634	11.56965	0.1421382	0.18170480	3.0871551	20	4 1.2	19.9
138584 2000 QC_{139}	14.7	X	207.09858	326.87942	0.18701	4.69101	0.1844922	0.17622482	3.1508277	20	2 24.5	19.9
138585 2000 QG_{140}	14.8	X	168.28987	170.88633	190.42260	11.64719	0.1812542	0.17667734	3.1454454	20	2 29.1	20.1
138586 2000 QL_{142}	14.8	X	244.55840	147.37158	180.36195	26.67509	0.1048119	0.17971232	3.1099315	20	4 3.6	19.5
138587 2000 QF_{143}	15.6	X	213.40331	328.93568	23.01821	0.68136	0.2105837	0.17943137	3.1131769	20	3 27.1	20.9
138588 2000 QY_{146}	16.0	X	49.15169	205.72176	10.27883	7.12411	0.0372412	0.28757603	2.2731823	20	6 29.2	18.7
138589 2000 QC_{154}	14.6	X	233.69197	126.53240	235.61652	9.44503	0.1164227	0.18616381	3.0376603	20	4 30.8	19.4
138590 2000 QN_{154}	14.8	X	226.05806	228.60945	193.15737	16.84399	0.2456434	0.18890586	3.0081934	20	6 25.1	20.2
138591 2000 QB_{156}	15.0	X	229.24179	54.73422	276.68958	8.24090	0.1172354	0.18176908	3.0864272	20	3 16.8	20.0
138592 2000 QD_{160}	14.4	X	162.69121	150.71889	240.13668	8.50325	0.0989253	0.17843106	3.1248014	20	3 24.3	19.3
138593 2000 QH_{160}	14.8	X	176.45430	228.06949	180.05424	18.75729	0.2612217	0.18013967	3.1050109	20	5 5.9	20.5
138594 2000 QM_{160}	14.7	X	196.12153	75.69746	201.68564	11.83685	0.0863472	0.16944063	3.2343798	20	—	—
138595 2000 QD_{161}	15.0	X	210.04624	150.58301	210.94697	7.84719	0.2620311	0.18225567	3.0809313	20	4 1.9	20.4
138596 2000 QL_{161}	15.3	X	182.35942	127.12241	188.42497	9.64693	0.2093369	0.17475596	3.1684587	20	1 20.9	20.9
138597 2000 QZ_{161}	14.4	X	127.36436	106.09354	301.64504	14.65077	0.2818767	0.17439759	3.1727978	20	3 21.3	20.0
138598 2000 QV_{164}	15.2	X	167.03657	133.95180	226.61077	8.36941	0.0914775	0.17546118	3.1599632	20	2 21.6	20.1
138599 2000 QO_{166}	15.5	X	124.44723	97.36724	207.01587	5.56611	0.1401578	0.26281480	2.4138086	20	—	—
138600 2000 QJ_{174}	14.9	X	221.33123	181.80473	177.84880	9.34514	0.0855368	0.18376659	3.0640206	20	4 19.8	19.6
138601 2000 QK_{175}	15.0	X	212.90418	168.47739	174.20509	8.71388	0.1210519	0.18048738	3.1010219	20	3 18.9	19.9
138602 2000 QY_{176}	15.0	X	150.72478	237.54981	185.08962	8.23181	0.1633381	0.17943609	3.1131223	20	4 27.9	20.0
138603 2000 QG_{177}	14.6	X	188.96510	86.77646	317.87537	7.20774	0.2008794	0.18199210	3.0839053	20	5 5.7	19.9
138604 2000 QO_{177}	15.0	X	225.92718	24.43409	264.02851	2.38359	0.2437443	0.17659056	3.1464758	20	1 23.6	20.4
138605 2000 QW_{177}	15.0	X	304.99633	110.29759	168.88451	22.15744	0.1876740	0.18609175	3.0384445	20	4 4.1	19.1
138606 2000 QR_{179}	14.7	X	166.15490	318.46353	24.68138	4.97945	0.1270886	0.17219964	3.1997390	20	2 8.1	19.8
138607 2000 QF_{184}	14.8	X	163.98318	27.40578	341.24208	17.17039	0.1571327	0.17712867	3.1401000	20	3 4.9	19.8
138608 2000 QX_{184}	14.6	X	228.29526	322.39640	342.06249	13.73209	0.1162045	0.17908495	3.1171904	20	2 19.7	19.5
138609 2000 QH_{188}	15.2	X	227.35161	277.16396	75.30588	6.40303	0.1658666	0.18334100	3.0687605	20	4 12.9	20.2
138610 2000 QY_{188}	15.0	X	180.17375	278.72825	90.04834	5.90715	0.1468716	0.17830780	3.1262413	20	3 22.6	20.1
138611 2000 QJ_{189}	14.6	X	212.67420	222.95960	94.19193	10.07653	0.1699034	0.17801531	3.1296648	20	2 19.9	19.9
138612 2000 QM_{194}	14.9	X	208.45083	110.89466	247.71839	9.87578	0.1200640	0.18264540	3.0765471	20	3 29.5	20.0
138613 2000 QV_{196}	14.6	X	157.47138	11.34940	328.08349	13.24723	0.0962426	0.17257062	3.1951517	20	1 24.9	19.5
138614 2000 QO_{197}	14.5	X	107.09148	292.01774	158.33534	18.95670	0.2870865	0.17554510	3.1589560	20	5 5.9	19.8
138615 2000 QY_{197}	14.7	X	229.63158	334.21357	347.93191	11.93112	0.1288818	0.18055631	3.1002325	20	3 9.7	19.6
138616 2000 QZ_{204}	15.4	X	198.39195	194.06758	187.41517	5.03576	0.1533720	0.18059305	3.0998121	20	4 20.2	20.5
138617 2000 QP_{205}	14.8	X	190.84577	2.59862	352.99275	10.33273	0.2253878	0.17715932	3.1397378	20	3 14.0	20.1
138618 2000 QZ_{209}	15.8	X	303.48253	98.89067	213.38669	2.28132	0.2704771	0.19032131	2.9932600	20	4 28.9	19.7
138619 2000 QL_{211}	14.8	X	140.37257	320.38142	98.20422	2.55009	0.2266766	0.17600344	3.1534693	20	4 17.9	20.0
138620 2000 QD_{220}	15.0	X	289.34949	349.90127	318.24298	7.08928	0.0327868	0.18735201	3.0248034	20	5 7.8	19.3
138621 2000 QQ_{221}	15.1	X	264.27002	243.57220	49.36125	5.74023	0.2182507	0.18386111	3.0629703	20	3 2.9	20.0
138622 2000 QU_{221}	15.1	X	278.61647	277.46262	17.02066	9.08824	0.1285470	0.18514619	3.0487808	20	3 28.2	19.5
138623 2000 QQ_{225}	15.1	X	317.64659	295.74827	344.26584	8.55926	0.0839481	0.18761958	3.0219268	20	5 2.1	19.1
138624 2000 QX_{226}	15.2	X	246.95150	62.64635	256.29766	8.94972	0.1437651	0.18322568	3.0700479	20	3 17.1	20.2
138625 2000 QL_{244}	15.6	X	202.18703	314.36056	356.02862	2.79583	0.1784478	0.17692396	3.1425216	20	2 1.4	20.7
138626 2000 QM_{248}	15.6	X	210.36893	315.05931	99.22400	0.84992	0.1130068	0.18814188	3.0163315	20	6 11.4	20.1
138627 2000 QK_{250}	15.4	X	165.03247	223.13980	146.62204	1.38896	0.2232792	0.17726231	3.1385216	20	3 11.1	20.8
138628 2000 QM_{251}	7.1	X	50.03422	313.78546	355.54503	15.68621	0.2704002	0.00328017	44.8612564	20	10 17.7	23.1
138629 2000 RR	14.6	X	187.23895	148.67002	179.42157	27.46789	0.1775752	0.17559849	3.1583156	20	2 6.2	20.2
138630 2000 RU	13.8	X	106.58132	133.55957	265.92362	19.53458	0.1885593	0.17206335	3.2014285	20	2 10.5	18.9
138631 2000 RE_{8}	15.0	X	64.97340	228.82054	331.84609	30.52869	0.2126846	0.24038922	2.5616870	20	8 5.2	18.7
138632 2000 RS_{14}	14.9	X	107.15094	203.72846	197.77227	14.64880	0.1035961	0.17151653	3.2082293	20	2 7.5	19.7
138633 2000 RD_{15}	14.6	X	219.76271	115.47544	184.23584	21.91919	0.1077462	0.17542490	3.1603988	20	2 1.9	19.9
138634 2000 RW_{15}	14.6	X	155.29179	183.76693	205.57845	11.18777	0.2541943	0.17514058	3.1638182	20	3 25.9	20.1
138635 2000 RP_{17}	15.0	X	252.40792	139.26872	196.86096	14.29288	0.1330529	0.18386577	3.0629186	20	4 18.6	19.7
138636 2000 RJ_{18}	14.7	X	285.93894	157.85438	314.80222	9.50135	0.1411006	0.20433811	2.8547613	20	11 23.7	18.3
138637 2000 RN_{20}	14.1	X	179.58200	38.79295	317.45839	12.12352	0.1049659	0.17544703	3.1601331	20	2 29.6	19.2
138638 2000 RF_{24}	14.7	X	153.23458	172.56350	222.63520	10.24409	0.1177940	0.17693432	3.1423991	20	3 21.7	19.8
138639 2000 RH_{24}	15.0	X	141.79914	117.70963	316.42029	15.62077	0.2258953	0.17779341	3.1322682	20	4 29.8	20.6
138640 2000 RO_{26}	14.6	X	185.94168	357.81193	320.56732	13.99913	0.1833840	0.17296175	3.1903330	20	1 29.6	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138641 2000 RH_{27}	15.3	X	41.38758	103.33850	311.44446	10.75156	0.0901502	0.21243367	2.7817653	20	—	—
138642 2000 RV_{27}	15.3	X	36.84328	98.21848	267.00354	4.91122	0.0850842	0.20660983	2.8337969	20	12 26.7	19.2
138643 2000 RH_{29}	14.8	X	125.10327	189.97724	241.55934	8.13683	0.2251009	0.17400730	3.1775404	20	4 17.3	20.0
138644 2000 RQ_{30}	14.5	X	199.37942	29.83649	316.76174	10.37465	0.1454493	0.17652347	3.1472730	20	3 7.5	19.7
138645 2000 RQ_{31}	14.7	X	224.78474	125.51137	229.96547	5.98357	0.2014658	0.18087414	3.0965997	20	4 8.3	19.9
138646 2000 RK_{34}	14.7	X	202.93299	3.74884	303.61381	8.20451	0.1376614	0.17248357	3.1962265	20	1 29.2	19.9
138647 2000 RK_{39}	14.7	X	133.61585	112.11430	300.28752	15.04311	0.0365378	0.17788916	3.1311441	20	3 9.0	19.5
138648 2000 RL_{39}	14.9	X	250.23443	109.86502	241.96927	9.32545	0.1309447	0.18598833	3.0395707	20	5 4.0	19.5
138649 2000 RZ_{39}	14.7	X	328.01974	22.61188	218.52478	10.54026	0.0092386	0.18101033	3.0950462	20	4 7.2	19.1
138650 2000 RY_{53}	14.6	X	146.36370	61.98572	297.25843	14.18282	0.1097485	0.17260672	3.1947061	20	2 2.5	19.4
138651 2000 RQ_{59}	14.9	X	119.03681	106.00201	320.60415	4.76765	0.1532775	0.17250577	3.1959524	20	3 29.2	19.8
138652 2000 RR_{63}	14.4	X	138.54589	133.06094	218.13486	6.70097	0.1660092	0.16974900	3.2304615	20	1 22.4	19.5
138653 2000 RT_{76}	14.5	X	219.26495	311.07150	345.24744	15.72004	0.1739366	0.17696133	3.1420792	20	2 2.9	19.8
138654 2000 RP_{77}	14.9	X	118.35253	278.34308	179.49439	13.78027	0.2126005	0.17726048	3.1385432	20	5 15.4	20.0
138655 2000 RG_{81}	14.1	X	115.61651	63.55875	307.23060	21.33286	0.0932560	0.16882370	3.2422546	20	1 16.9	18.8
138656 2000 RQ_{81}	14.7	X	110.49787	248.41324	198.35405	9.81252	0.2520739	0.17422943	3.1748390	20	4 27.4	19.7
138657 2000 RU_{81}	14.6	X	210.70159	9.41796	295.70314	13.37446	0.1510254	0.17503136	3.1651343	20	1 31.5	19.9
138658 2000 RA_{84}	15.0	X	328.03179	86.71092	162.85869	9.38200	0.0896446	0.18587906	3.0407619	20	4 13.1	18.9
138659 2000 RQ_{88}	15.1	X	206.75470	80.85268	318.50606	10.13477	0.1484155	0.18371355	3.0646103	20	5 15.7	20.2
138660 2000 RR_{88}	15.6	X	74.16837	125.97869	290.47249	4.97155	0.0216059	0.21897763	2.7260651	20	—	—
138661 2000 RH_{89}	15.2	X	131.64517	215.12607	202.36126	16.37352	0.1804135	0.17482361	3.1676413	20	4 3.6	20.2
138662 2000 RV_{89}	14.9	X	263.56851	332.04074	320.75666	9.69240	0.0828096	0.17986268	3.1081980	20	3 11.1	19.6
138663 2000 RE_{91}	14.6	X	145.59924	197.48496	255.77563	9.22091	0.0596788	0.18224785	3.0810195	20	5 21.5	19.1
138664 2000 RK_{93}	14.8	X	176.63722	19.76233	0.45618	11.34506	0.0864734	0.17722984	3.1389049	20	3 27.4	19.6
138665 2000 RE_{96}	15.0	X	171.63217	125.22891	213.48631	21.05462	0.2323714	0.17364713	3.1819326	20	2 4.5	20.8
138666 2000 RX_{96}	15.3	X	351.98116	193.69138	279.43825	17.42876	0.0790021	0.36466104	1.9403339	20	—	—
138667 2000 RZ_{99}	14.8	X	193.18483	144.97508	226.35016	19.17570	0.1174426	0.17905729	3.1175114	20	3 30.6	20.0
138668 2000 RB_{103}	14.8	X	176.68783	141.37725	250.08328	9.16683	0.2275047	0.17731147	3.1379415	20	4 10.9	20.4
138669 2000 RJ_{104}	14.5	X	307.86970	76.83940	329.79595	16.14935	0.0890583	0.19643064	2.9308701	20	9 30.2	18.4
138670 2000 RH_{106}	15.6	X	232.70800	330.07031	304.13859	6.36449	0.1346429	0.22445257	2.6815527	20	1 12.0	19.7
138671 2000 SY_{3}	14.3	X	166.82785	246.09663	130.12362	17.86479	0.2723700	0.17491037	3.1665937	20	3 26.7	20.1
138672 2000 SL_{4}	14.8	X	179.56569	156.82396	233.27462	10.63446	0.1338041	0.18157253	3.0886541	20	4 10.7	19.9
138673 2000 SH_{6}	14.6	X	145.94663	305.78498	137.19458	23.61945	0.2565370	0.17728287	3.1382789	20	5 27.9	20.4
138674 2000 SJ_{6}	14.1	X	150.12814	302.99346	65.51134	18.92468	0.2078444	0.17213339	3.2005600	20	3 6.7	19.7
138675 2000 SU_{8}	17.1	X	341.65490	184.42355	260.03101	1.99129	0.0317294	0.30762829	2.1732943	20	—	—
138676 2000 SZ_{15}	14.7	X	148.79007	95.47076	331.84374	7.14426	0.2278810	0.17701991	3.1413860	20	5 1.2	20.1
138677 2000 SU_{16}	14.9	X	167.33767	224.62726	220.31594	8.31649	0.2375548	0.18075531	3.0979566	20	6 8.7	20.4
138678 2000 SS_{23}	16.1	X	223.39669	126.10824	256.67485	1.85730	0.2320239	0.23187143	2.6240446	20	5 7.7	20.5
138679 2000 SD_{30}	15.5	X	355.42736	281.41349	69.73330	2.80371	0.0879113	0.19872793	2.9082391	20	10 11.4	19.0
138680 2000 SN_{31}	15.6	X	260.55182	8.28854	339.04997	0.76877	0.1388471	0.18561283	3.0436688	20	5 9.4	20.2
138681 2000 SX_{32}	14.8	X	70.88310	73.46109	23.59243	8.48881	0.1116117	0.17127729	3.2112160	20	3 7.9	19.1
138682 2000 SJ_{34}	14.7	X	155.78304	355.03143	35.72879	9.69668	0.0959054	0.17508990	3.1644288	20	3 23.8	19.6
138683 2000 SS_{35}	15.5	X	239.74987	207.55466	137.46597	2.18567	0.1964518	0.18264110	3.0765953	20	4 11.3	20.4
138684 2000 SS_{40}	15.0	X	314.50681	34.14193	224.12348	10.84422	0.1065958	0.18118640	3.0930408	20	3 28.7	19.2
138685 2000 SM_{45}	14.4	X	186.04499	85.03115	291.67413	20.44433	0.1069433	0.18106990	3.0943674	20	3 21.9	19.8
138686 2000 SK_{50}	14.9	X	221.85234	148.98431	195.50535	10.08883	0.0871436	0.17978579	3.1090841	20	3 30.9	19.7
138687 2000 SJ_{51}	15.3	X	269.32805	51.43239	274.38459	7.54171	0.0745236	0.18474730	3.0531676	20	4 29.2	19.8
138688 2000 SE_{53}	15.5	X	253.73585	145.29839	208.26535	4.19841	0.1426390	0.18533127	3.0467506	20	5 9.9	20.1
138689 2000 SW_{55}	14.7	X	115.39100	279.81887	193.92489	10.12626	0.1235030	0.17962932	3.1108893	20	5 21.5	19.4
138690 2000 SY_{56}	15.9	X	213.37781	154.67201	203.67935	0.47585	0.1894296	0.17997643	3.1068882	20	4 4.1	21.0
138691 2000 SP_{57}	14.7	X	271.67348	281.80621	1.63431	21.99870	0.0621461	0.17819459	3.1275652	20	3 16.9	19.1
138692 2000 SV_{58}	14.8	X	132.79601	27.17150	357.71983	9.35721	0.0848946	0.17135033	3.2103034	20	2 20.3	19.6
138693 2000 ST_{59}	15.6	X	257.07838	117.37705	200.89286	4.68821	0.1714942	0.18200213	3.0837920	20	3 27.5	20.4
138694 2000 SV_{59}	15.0	X	262.73316	107.11782	188.44165	22.21699	0.0843361	0.17847911	3.1242405	20	3 15.2	19.6
138695 2000 SD_{60}	15.6	X	248.68611	185.34722	237.92524	1.05819	0.2608149	0.18822941	3.0153962	20	7 16.7	20.4
138696 2000 SB_{69}	14.7	X	140.11860	189.53859	189.95215	10.39062	0.1450606	0.17094467	3.2153802	20	2 22.9	19.7
138697 2000 ST_{69}	16.5	X	234.82272	303.31904	71.60645	4.05838	0.2351858	0.28362149	2.2942635	20	5 7.5	20.1
138698 2000 SQ_{76}	16.2	X	20.10523	235.13657	160.99296	7.93043	0.3140536	0.20469509	2.8514413	20	—	—
138699 2000 SL_{77}	15.2	X	46.70574	129.85613	303.83218	1.96102	0.2492760	0.16322354	3.3159974	20	1 15.3	18.5
138700 2000 SD_{79}	15.0	X	293.19069	269.16710	26.46368	10.51391	0.1447840	0.18335728	3.0685787	20	4 13.5	19.1
138701 2000 SJ_{80}	15.3	X	323.46312	333.33686	328.43398	1.01974	0.0922281	0.18735887	3.0247295	20	6 11.5	18.9
138702 2000 SW_{85}	16.0	X	102.85153	310.12383	135.91845	4.97097	0.0947990	0.27280038	2.3545400	20	3 22.7	18.8
138703 2000 SK_{89}	14.4	X	97.41806	54.21386	33.69219	14.59935	0.1518774	0.17171078	3.2058092	20	4 5.4	19.0
138704 2000 SO_{90}	14.4	X	216.12554	120.16680	262.69809	13.14997	0.2085530	0.18342626	3.0678095	20	5 2.0	19.7
138705 2000 SU_{90}	13.7	X	142.58813	119.92696	257.09245	20.94411	0.1233830	0.17201329	3.2020496	20	2 12.9	19.0
138706 2000 SR_{92}	15.1	X	193.80892	115.29436	244.27045	9.35319	0.1106227	0.17810495	3.1286145	20	3 16.9	20.2
138707 2000 SP_{95}	14.8	X	154.10656	119.75184	210.91464	11.64838	0.0867173	0.16814813	3.2509331	20	1 7.0	19.9
138708 2000 SW_{95}	15.3	X	163.68453	96.35656	323.30926	5.19868	0.0997799	0.17956099	3.1116785	20	4 30.0	20.3
138709 2000 SJ_{101}	15.1	X	162.29185	177.29770	259.76454	10.39216	0.1016929	0.18154411	3.0889766	20	5 21.6	19.8
138710 2000 SE_{103}	15.0	X	243.30823	140.50704	191.75931	5.11227	0.1846981	0.18103040	3.0948175	20	3 30.4	20.0
138711 2000 SN_{104}	16.1	X	153.90399	150.63121	188.67454	1.70981	0.0925565	0.21799049	2.7342886	20	1 11.7	20.2
138712 2000 SJ_{105}	15.9	X	263.53189	146.86722	182.86381	5.67339	0.1819385	0.18435849	3.0574588	20	4 17.0	20.5
138713 2000 SK_{117}	16.4	X	110.01502	284.98882	130.43649	2.77346	0.1861948	0.26951151	2.3736563	20	3 3.8	19.3
138714 2000 SC_{126}	15.1	X	258.55591	284.08715	22.70750	5.31414	0.1310719	0.17915651	3.1163603	20	3 21.4	19.9
138715 2000 SK_{129}	14.0	X	136.28107	235.19334	211.07379	21.13948	0.2374725	0.17956619	3.1116185	20	5 17.5	19.3
138716 2000 SU_{130}	14.2	X	226.56199	9.92692	261.15782	14.30438	0.1991468	0.17277544	3.1926260	20	1 5.5	19.6
138717 2000 SB_{135}	14.8	X	161.41702	109.69227	232.80919	11.79860	0.0414223	0.16949392	3.2337018	20	1 22.9	19.7
138718 2000 SW_{139}	15.0	X	161.96925	93.56617	269.90213	4.10937	0.1685177	0.17204882	3.2016087	20	2 26.2	20.3
138719 2000 SB_{144}	14.9	X	141.30683	263.82408	188.96168	9.49960	0.0345519	0.18056495	3.1001337	20	5 15.8	19.4
138720 2000 SV_{156}	14.6	X	159.70307	182.07528	219.64882	22.44450	0.1447304	0.17914717	3.1164685	20	4 6.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138721 2000 SY_{156}	14.2	X	209.51735	97.52261	299.66967	16.88462	0.2875177	0.18122358	3.0926178	20	5 8.8	20.0
138722 2000 SA_{157}	15.4	X	231.65344	97.70574	222.91893	7.58174	0.0784736	0.17852037	3.1237590	20	3 10.9	20.3
138723 2000 SY_{158}	15.6	X	172.38663	307.27863	107.47875	2.38361	0.1975283	0.18059815	3.0997537	20	5 7.7	20.8
138724 2000 SZ_{164}	16.3	X	116.28183	249.15933	218.51973	7.26218	0.0545628	0.28101626	2.3084214	20	5 1.9	18.9
138725 2000 SF_{175}	14.7	X	154.01068	123.28463	259.22338	10.38492	0.1306464	0.17162636	3.2068604	20	3 6.5	19.9
138726 2000 SY_{176}	14.3	X	199.90511	109.07824	239.94174	13.36394	0.0340607	0.17267347	3.1938828	20	3 10.1	19.3
138727 2000 SU_{180}	19.0	X	133.44277	136.10099	328.03181	11.89291	0.6069014	0.32280637	2.1046246	20	6 24.0	23.7
138728 2000 SO_{186}	15.0	X	165.80059	232.15311	205.73614	9.45322	0.0442865	0.18371830	3.0645575	20	5 25.7	19.5
138729 2000 SB_{187}	14.4	X	171.60736	162.04101	257.96401	13.08810	0.2586921	0.17851927	3.1237719	20	5 12.5	19.9
138730 2000 SP_{187}	14.9	X	216.11389	31.55901	316.98353	9.74616	0.0532132	0.17733848	3.1376228	20	3 27.5	19.7
138731 2000 SE_{191}	15.2	X	166.79904	22.09075	31.45903	12.32025	0.1412912	0.17889703	3.1193729	20	4 28.4	20.3
138732 2000 SG_{191}	15.3	X	270.57933	321.75813	39.23070	10.09396	0.1014208	0.18748568	3.0233655	20	6 12.1	19.6
138733 2000 SB_{195}	15.6	X	194.22382	44.34128	0.82064	4.24790	0.1599785	0.18210125	3.0826728	20	5 12.8	20.6
138734 2000 SG_{195}	15.0	X	127.61321	256.69342	174.63657	11.11035	0.0925529	0.17688262	3.1430113	20	4 9.8	19.7
138735 2000 SR_{199}	15.0	X	147.87864	30.65298	16.74708	8.95068	0.0912782	0.17534124	3.1614040	20	4 1.3	19.6
138736 2000 SV_{199}	14.8	X	177.02393	269.45473	39.94321	1.81114	0.1402019	0.16865323	3.2444389	20	1 10.1	20.0
138737 2000 SX_{201}	15.6	X	172.78858	340.18616	63.38980	1.95092	0.1543491	0.17847686	3.1242667	20	4 23.6	20.6
138738 2000 SZ_{203}	14.9	X	164.14429	228.83732	180.56446	6.20993	0.0617753	0.17755854	3.1350298	20	4 19.7	19.6
138739 2000 SF_{206}	15.5	X	115.17574	200.46455	184.43085	2.89654	0.2458153	0.16682193	3.2681397	20	2 17.6	20.6
138740 2000 SB_{209}	14.7	X	131.11454	0.80907	38.88069	13.01216	0.1555420	0.17186833	3.2038498	20	3 17.5	19.8
138741 2000 SE_{213}	15.1	X	155.35212	325.15011	91.53741	7.82479	0.1784569	0.17604977	3.1529160	20	4 27.4	20.3
138742 2000 SR_{223}	14.5	X	242.00663	256.38567	16.93437	25.21130	0.2188376	0.17321311	3.1872457	20	1 30.0	20.3
138743 2000 SC_{225}	15.7	X	343.28383	45.19958	346.52451	1.33448	0.0706638	0.19992733	2.8965961	20	11 12.5	19.3
138744 2000 SB_{235}	15.5	X	191.04586	0.69076	35.64630	1.72712	0.1986993	0.18077415	3.0977414	20	4 30.2	20.8
138745 2000 SM_{235}	15.5	X	219.88539	40.29550	45.69402	1.57725	0.2745507	0.18718493	3.0266030	20	7 18.7	20.8
138746 2000 SD_{246}	14.9	X	240.41098	274.51749	15.79500	9.02005	0.0436647	0.17460606	3.1702719	20	2 22.5	19.6
138747 2000 SR_{246}	14.7	X	85.13929	70.16056	32.97219	9.57852	0.0577737	0.17524963	3.1625057	20	3 26.1	19.1
138748 2000 SU_{246}	14.4	X	79.02210	61.70206	41.65508	7.12372	0.1040342	0.17353676	3.1832816	20	3 24.9	18.7
138749 2000 SD_{253}	15.4	X	153.16754	152.30049	213.78348	3.50306	0.1505873	0.17267963	3.1938068	20	2 20.8	20.6
138750 2000 SH_{253}	15.4	X	257.77717	185.19307	142.72134	4.10682	0.1690507	0.18287528	3.0739682	20	4 11.1	20.1
138751 2000 SC_{259}	14.8	X	155.63290	348.08543	61.54061	10.01718	0.0963202	0.17484954	3.1673281	20	4 15.3	19.7
138752 2000 SP_{259}	14.7	X	136.34142	43.41636	51.34992	14.28486	0.0489641	0.17802881	3.1295064	20	5 12.2	19.1
138753 2000 SP_{270}	15.0	X	190.34881	215.40082	174.57700	10.09586	0.0794010	0.17742363	3.1366188	20	4 25.2	19.8
138754 2000 SA_{272}	14.6	X	257.83746	31.71051	260.88928	15.98879	0.1638246	0.18075816	3.0979241	20	2 20.7	19.8
138755 2000 SL_{272}	14.7	X	183.58612	178.57798	218.14555	5.02774	0.0182600	0.17843116	3.1248001	20	4 23.6	19.1
138756 2000 SC_{273}	14.5	X	179.88844	121.28215	205.91287	32.88561	0.1328526	0.16929071	3.2362890	20	1 25.2	20.3
138757 2000 SR_{280}	14.4	X	24.66384	283.76656	229.07868	16.85654	0.0594828	0.17099418	3.2147596	20	2 26.5	19.0
138758 2000 SS_{280}	14.8	X	159.55050	153.65946	254.36942	8.26032	0.0881899	0.17553036	3.1591328	20	4 10.6	19.8
138759 2000 SK_{281}	15.4	X	201.12506	77.90601	288.90738	8.88848	0.1630733	0.18004938	3.1060490	20	3 30.9	20.7
138760 2000 SO_{283}	15.3	X	250.58177	137.68079	252.12759	8.30103	0.0785978	0.18814765	3.0162698	20	6 28.3	19.7
138761 2000 SN_{286}	15.0	X	171.52248	142.19879	186.36346	26.29942	0.1590376	0.17284962	3.1917125	20	1 23.8	20.6
138762 2000 SR_{287}	14.9	X	251.23145	269.84358	33.82992	8.67891	0.1725357	0.17900694	3.1180959	20	3 8.9	19.9
138763 2000 SX_{290}	14.9	X	168.60736	38.53128	324.83753	4.24283	0.1362816	0.17341770	3.1847385	20	3 2.4	19.8
138764 2000 SP_{292}	14.4	X	160.85462	148.63537	261.27398	13.11421	0.2397355	0.17456336	3.1707889	20	4 20.1	20.1
138765 2000 SD_{306}	14.9	X	131.95495	208.82672	229.18638	16.30148	0.1544488	0.17522224	3.1628352	20	4 25.9	19.9
138766 2000 SL_{308}	14.8	X	211.13872	112.40910	253.69586	11.25919	0.0543534	0.17784927	3.1316123	20	4 13.6	19.6
138767 2000 ST_{313}	14.9	X	168.54344	42.10999	309.03462	12.07203	0.0873821	0.17035672	3.2227741	20	2 13.9	19.8
138768 2000 SM_{314}	14.5	X	125.08751	113.33159	295.81133	14.47445	0.0536861	0.17450454	3.1715013	20	2 27.8	19.3
138769 2000 SP_{314}	14.4	X	111.04129	106.34323	330.80435	31.91316	0.2018875	0.17250795	3.1959254	20	3 23.1	19.7
138770 2000 SK_{315}	14.7	X	236.23742	75.56667	253.43638	14.49209	0.1211153	0.17827262	3.1266525	20	3 18.7	19.9
138771 2000 SP_{316}	14.8	X	141.06895	160.65830	284.10049	16.28827	0.1856727	0.17877580	3.1207830	20	5 13.2	20.1
138772 2000 SH_{317}	14.7	X	207.08602	45.26948	244.97791	13.51604	0.1988948	0.17175698	3.2052344	20	1 10.9	20.3
138773 2000 SS_{318}	14.0	X	125.07167	224.42892	265.91156	16.16544	0.3278360	0.17546340	3.1599365	20	7 3.9	19.6
138774 2000 SJ_{320}	15.1	X	247.21527	150.47353	181.72826	10.46773	0.0749998	0.18416494	3.0596007	20	4 14.9	19.6
138775 2000 SA_{328}	14.4	X	98.81876	60.76372	13.35840	21.67757	0.0558477	0.16961544	3.2321571	20	3 12.2	19.1
138776 2000 SH_{328}	15.4	X	359.93574	239.99990	132.03570	2.90161	0.0350035	0.20116615	2.8846920	20	11 10.1	19.1
138777 2000 SX_{330}	15.3	X	169.47061	237.94569	126.62971	3.51898	0.1863551	0.17201058	3.2020832	20	3 8.4	20.6
138778 2000 ST_{334}	14.8	X	82.81325	309.62516	202.95839	12.14596	0.0600059	0.18064105	3.0992629	20	5 22.6	19.2
138779 2000 SL_{335}	14.8	X	257.78096	120.64167	237.39525	8.83615	0.0101070	0.18322069	3.0701037	20	6 6.5	19.1
138780 2000 SR_{338}	14.8	X	100.60157	12.77147	28.45112	12.52287	0.0490099	0.16909295	3.2388118	20	1 31.5	19.6
138781 2000 SH_{339}	13.8	X	45.04473	296.05766	78.81619	18.31471	0.1794076	0.15605666	3.4167603	20	—	—
138782 2000 SV_{344}	14.9	X	203.09502	285.40576	89.13884	12.65517	0.2428910	0.18011093	3.1053413	20	4 19.2	20.5
138783 2000 SJ_{349}	14.5	X	190.33000	259.98366	71.90201	14.58521	0.1493188	0.17196665	3.2026285	20	2 21.3	20.0
138784 2000 SN_{350}	15.2	X	179.47454	247.28834	146.31329	18.82343	0.2306618	0.17769817	3.1333873	20	4 23.9	20.9
138785 2000 SA_{351}	14.4	X	160.45099	20.71577	61.03458	20.94071	0.2297293	0.17953190	3.1120147	20	5 29.1	19.8
138786 2000 SL_{355}	15.6	X	245.66763	285.18491	55.21268	12.27433	0.1713605	0.18209692	3.0827217	20	4 16.1	20.5
138787 2000 SJ_{358}	13.9	X	36.61262	208.95865	293.45755	9.76788	0.1171683	0.17169693	3.2059816	20	3 6.7	18.0
138788 2000 SQ_{359}	14.9	X	195.10316	128.50044	243.10401	14.01778	0.0569074	0.17718397	3.1394466	20	4 1.7	19.8
138789 2000 SU_{362}	15.1	X	264.92941	213.57933	88.94775	9.13578	0.2295041	0.18359500	3.0659294	20	3 15.5	20.1
138790 2000 SZ_{362}	15.8	X	30.22174	47.69457	341.28600	3.28917	0.1080430	0.20898084	2.8123221	20	—	—
138791 2000 SK_{363}	15.3	X	181.99825	155.39345	176.95744	10.58930	0.2218624	0.17607691	3.1525921	20	2 8.7	20.9
138792 2000 SP_{365}	15.1	X	141.86209	273.75587	155.42305	16.42158	0.2299878	0.17700653	3.1415443	20	5 5.2	20.6
138793 2000 SV_{368}	15.8	X	308.60793	246.65175	65.11792	1.41894	0.1968741	0.18984602	2.9982537	20	5 17.9	19.5
138794 2000 TU_{2}	15.4	X	166.43395	194.17430	175.26476	3.64805	0.2064537	0.17576707	3.1562959	20	3 10.8	20.8
138795 2000 TB_{4}	15.2	X	280.59793	80.08865	188.77133	10.82378	0.1052272	0.17790295	3.1309824	20	2 29.2	19.9
138796 2000 TV_{6}	16.1	X	12.79533	151.97777	195.03235	1.37936	0.0718819	0.19952568	2.9004821	20	10 29.4	19.6
138797 2000 TR_{9}	14.7	X	180.38170	169.10171	198.08195	9.03946	0.0998553	0.17485984	3.1672037	20	3 15.7	19.6
138798 2000 TA_{13}	14.9	X	183.78442	122.15544	200.33411	5.06159	0.0134215	0.16815781	3.2508082	20	1 25.1	19.6
138799 2000 TT_{15}	15.0	X	261.00694	120.99831	205.08493	3.86809	0.0708441	0.17961094	3.1111015	20	4 22.7	19.3
138800 2000 TZ_{19}	14.8	X	227.27002	295.85741	79.74326	11.33884	0.0957086	0.18254162	3.0777130	20	5 15.3	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138801 2000 TJ_{26}	17.0	X	4.06985	301.32175	161.59376	1.42901	0.1396385	0.26159047	2.4213344	20	—	—
138802 2000 TL_{27}	14.8	X	133.98373	29.68661	39.05621	12.25750	0.0780389	0.17477377	3.1682435	20	4 12.8	19.4
138803 2000 TT_{34}	15.2	X	261.53047	180.82408	145.48001	2.50353	0.1144850	0.18118748	3.0930285	20	4 18.9	19.8
138804 2000 TG_{36}	14.5	X	119.84243	215.82140	223.72961	7.26586	0.1205835	0.17313373	3.1882198	20	4 11.8	19.2
138805 2000 TE_{39}	14.2	X	102.66288	108.60827	11.30990	26.36915	0.2265037	0.17821926	3.1272766	20	5 15.8	19.4
138806 2000 TK_{39}	15.0	X	213.77864	273.72689	72.82396	8.79575	0.2227810	0.17974553	3.1095483	20	3 25.1	20.4
138807 2000 TA_{43}	14.8	X	190.87791	238.78431	149.20853	15.48879	0.0946797	0.17985532	3.1082828	20	4 25.9	19.8
138808 2000 TD_{43}	14.8	X	189.50738	39.67963	46.94561	10.89190	0.1298748	0.18507165	3.0495994	20	6 29.9	19.8
138809 2000 TF_{43}	14.4	X	123.21894	9.35146	31.81978	19.60162	0.1416860	0.17141498	3.2094962	20	3 13.5	19.5
138810 2000 TB_{50}	14.5	X	87.08914	66.52761	29.02301	10.75021	0.1133514	0.17376831	3.1804531	20	3 27.1	18.9
138811 2000 TW_{50}	13.8	X	73.43588	63.32000	80.59203	14.43892	0.2427623	0.17273872	3.1930784	20	5 26.9	18.2
138812 2000 TY_{54}	16.1	X	237.09945	30.26865	32.02559	1.11812	0.1287017	0.18685746	3.0301381	20	7 18.6	20.7
138813 2000 TO_{56}	15.3	X	175.54504	106.63030	305.90199	8.61993	0.0916549	0.18048869	3.1010068	20	5 1.9	20.2
138814 2000 TD_{58}	15.4	X	206.85557	344.78634	75.32860	6.71310	0.1943376	0.18223348	3.0811814	20	6 10.8	20.4
138815 2000 TQ_{64}	17.9	X	280.98464	228.01162	20.32492	8.24754	0.3813762	0.32635186	2.0893538	20	—	—
138816 2000 TG_{65}	14.9	X	28.19238	229.05539	249.25417	1.66992	0.2613347	0.16301882	3.3187730	20	2 3.4	17.9
138817 2000 UR_{8}	14.5	X	58.36331	248.10036	58.02691	8.42676	0.0831149	0.24689961	2.5164547	20	11 18.2	17.7
138818 2000 UK_{15}	15.9	X	189.00931	17.94377	51.32867	0.64061	0.2072058	0.17917846	3.1161057	20	6 6.6	21.2
138819 2000 UL_{22}	14.3	X	105.62657	58.13116	51.75489	17.40895	0.0886651	0.17377922	3.1803200	20	5 2.1	18.8
138820 2000 UN_{22}	15.1	X	158.31420	2.13347	62.56861	9.49965	0.1549326	0.17538390	3.1608913	20	5 6.8	20.2
138821 2000 UM_{23}	15.2	X	201.29521	274.80967	107.55052	6.49620	0.1504712	0.17699633	3.1416651	20	4 26.0	20.3
138822 2000 UR_{23}	15.2	X	177.49379	351.41867	65.94044	11.78868	0.2172995	0.17678545	3.1441629	20	5 15.4	20.6
138823 2000 UR_{24}	14.1	X	56.28094	105.58684	44.63762	14.48306	0.0796218	0.17382001	3.1798224	20	4 18.6	18.4
138824 2000 UK_{28}	15.2	X	282.72459	95.39955	298.74156	10.25626	0.1477422	0.18919437	3.0051345	20	8 4.0	19.2
138825 2000 UR_{31}	15.9	X	158.91172	79.36672	67.45821	4.09365	0.1012299	0.18707618	3.0277758	20	8 15.2	20.6
138826 2000 UY_{42}	14.8	X	189.38768	118.79628	218.13748	17.75742	0.1477743	0.16998718	3.2274431	20	2 14.9	20.4
138827 2000 UB_{44}	16.0	X	191.60500	152.57832	274.10021	1.57309	0.1382696	0.23011410	2.6373872	20	6 7.4	20.2
138828 2000 UD_{52}	14.6	X	159.94055	152.35375	230.81183	8.05965	0.0692287	0.16980166	3.2297935	20	3 11.2	19.6
138829 2000 UL_{58}	14.5	X	107.93486	271.81272	222.41159	19.54378	0.1956757	0.17662679	3.1460454	20	6 13.5	19.6
138830 2000 UJ_{62}	15.3	X	144.41122	67.03692	20.67441	13.25558	0.2878504	0.17449641	3.1715998	20	5 24.5	21.0
138831 2000 UD_{68}	14.3	X	62.44203	256.84229	252.59638	12.28987	0.1826640	0.17268627	3.1937249	20	5 6.8	18.5
138832 2000 UX_{88}	15.2	X	159.21298	274.27178	111.29767	5.55691	0.1700178	0.17187499	3.2037670	20	3 24.7	20.4
138833 2000 UE_{91}	14.5	X	359.29748	210.96396	5.87844	17.45619	0.0513201	0.17767264	3.1336875	20	4 13.0	18.7
138834 2000 UQ_{92}	14.7	X	179.97971	343.29669	353.95298	10.31292	0.0881498	0.16999897	3.2272940	20	2 13.7	19.7
138835 2000 UZ_{97}	15.9	X	229.25069	114.77881	337.98995	4.93581	0.2228964	0.18680195	3.0307384	20	8 8.4	20.9
138836 2000 UW_{100}	14.3	X	154.03200	135.18229	298.65121	4.58069	0.1564642	0.17412031	3.1761652	20	5 11.4	19.4
138837 2000 UC_{109}	15.2	X	269.64771	261.59798	96.60768	8.05683	0.1434074	0.18356290	3.0662868	20	6 3.3	19.5
138838 2000 VL_{3}	16.3	X	92.75873	341.02094	40.71401	6.21763	0.2104586	0.26176234	2.4202744	20	—	—
138839 2000 VA_{10}	15.0	X	196.01565	266.88154	73.44888	2.35586	0.1858403	0.17259056	3.1949056	20	3 2.0	20.3
138840 2000 VB_{10}	14.8	X	265.27757	286.77450	51.94913	8.38175	0.0345300	0.17953651	3.1119614	20	5 18.3	19.2
138841 2000 VT_{15}	15.3	X	49.44289	287.00406	212.70695	9.50117	0.2771246	0.21660093	2.7459703	20	4 15.0	17.9
138842 2000 VN_{22}	14.8	X	91.18745	19.93390	90.60501	6.27958	0.1122329	0.16980818	3.2297109	20	4 19.7	19.4
138843 2000 VF_{39}	18.1	X	47.83471	220.68835	46.54519	33.79291	0.1651472	0.49277588	1.5874611	20	11 10.1	19.1
138844 2000 VC_{41}	15.0	X	99.90093	93.54144	17.33844	7.66426	0.1084407	0.17325204	3.1867682	20	4 25.9	19.6
138845 2000 VV_{57}	15.4	X	213.42706	342.11649	41.77258	7.89814	0.2517590	0.22823565	2.6518384	20	4 30.7	20.1
138846 2000 VJ_{61}	16.0	X	350.51977	280.50224	270.56256	18.67709	0.5625003	0.30510738	2.1852489	20	—	—
138847 2000 VE_{62}	17.0	X	0.06830	16.29710	207.11267	22.17797	0.2875801	0.47847479	1.6189372	20	1 26.9	18.6
138848 2000 WD_{1}	17.1	X	83.21688	104.16319	219.38647	2.48748	0.2359392	0.30442115	2.1885317	20	—	—
138849 2000 WL_{3}	14.3	X	170.81754	306.62228	104.76030	29.00687	0.2904863	0.17556888	3.1586708	20	5 15.3	20.4
138850 2000 WR_{6}	16.7	X	59.34544	87.76757	299.66397	6.17880	0.0841860	0.30848069	2.1692889	20	—	—
138851 2000 WW_{7}	14.8	X	207.22748	285.75626	95.54463	10.91129	0.2446890	0.17749462	3.1357824	20	4 28.7	20.4
138852 2000 WN_{10}	20.2	X	284.21498	225.29071	60.88809	21.50665	0.2982934	0.98385920	1.0011844	20	11 7.5	18.3
138853 2000 WN_{13}	16.9	X	158.39593	288.56017	60.00896	5.96187	0.2045802	0.31701231	2.1301914	20	1 27.5	19.9
138854 2000 WK_{17}	15.2	X	54.28108	110.69614	23.72819	1.34750	0.2580386	0.16516535	3.2899560	20	4 18.1	19.1
138855 2000 WU_{28}	17.0	X	147.25343	148.12321	181.58306	3.55651	0.1936582	0.31353739	2.1459017	20	—	—
138856 2000 WT_{34}	16.4	X	106.57418	192.74118	204.55897	5.91700	0.1511616	0.26402829	2.4064069	20	1 27.7	19.4
138857 2000 WC_{47}	16.6	X	289.12497	144.63684	197.17692	5.22795	0.1920650	0.28455925	2.2892202	20	5 30.6	19.3
138858 2000 WE_{62}	14.3	X	172.68435	329.10362	93.95206	15.72532	0.2004803	0.17574867	3.1565161	20	5 20.8	19.8
138859 2000 WN_{63}	18.9	X	226.33933	144.35161	55.91981	13.14921	0.5315806	0.49945468	1.5732775	20	—	—
138860 2000 WO_{77}	15.1	X	208.85107	163.09430	264.35092	9.64474	0.0256744	0.18130523	3.0916892	20	7 1.7	19.4
138861 2000 WO_{87}	15.9	X	262.94192	170.82703	296.99889	5.90343	0.1941312	0.29106076	2.2550021	20	10 23.6	18.2
138862 2000 WP_{113}	15.7	X	46.77318	94.75381	44.86506	11.11122	0.2094034	0.21537754	2.7563589	20	4 3.7	18.6
138863 2000 WO_{119}	14.5	X	110.67488	264.45838	268.03612	24.31471	0.2161548	0.17669793	3.1452010	20	7 27.7	19.9
138864 2000 WM_{143}	14.3	X	193.06450	302.31636	115.51508	28.20872	0.2497971	0.17463604	3.1699090	20	6 3.1	20.2
138865 2000 WP_{159}	14.6	X	91.19316	52.91512	53.38813	19.53855	0.1423157	0.17191944	3.2032148	20	4 21.4	19.3
138866 2000 WO_{163}	15.6	X	260.83888	29.20932	55.71419	2.87570	0.0769829	0.19174232	2.9784529	20	9 22.9	19.6
138867 2000 XD_{5}	14.5	X	45.88087	14.12275	23.95714	14.13313	0.1039455	0.15502653	3.4318794	20	—	—
138868 2000 XR_{15}	17.2	X	343.57261	340.39465	330.81904	11.09727	0.1061237	0.48796909	1.5978690	20	9 15.6	17.2
138869 2000 XL_{16}	15.3	X	321.87435	61.42509	307.87313	9.50652	0.1154267	0.19057245	2.9906296	20	9 3.9	19.0
138870 2000 XP_{16}	14.7	X	155.57073	163.66909	284.15692	12.88748	0.1530252	0.17544565	3.1601496	20	5 30.2	20.0
138871 2000 XG_{17}	14.4	X	227.90802	62.45126	306.81449	8.73797	0.3272875	0.17768897	3.1334955	20	4 17.8	20.2
138872 2000 XU_{31}	15.2	X	260.28956	141.79887	314.14674	10.27651	0.0901384	0.19033497	2.9931168	20	9 27.6	19.6
138873 2000 XV_{34}	15.6	X	138.68900	157.17469	349.46150	11.43189	0.1804943	0.27693151	2.3310654	20	8 5.3	19.4
138874 2000 XN_{35}	14.8	X	221.44217	103.24722	338.24676	10.10986	0.1699900	0.18054333	3.1003811	20	7 23.9	19.8
138875 2000 XF_{37}	14.8	X	188.50551	83.78262	310.08822	15.07183	0.1056321	0.17466683	3.1695365	20	4 18.6	20.1
138876 2000 XA_{45}	14.1	X	130.08174	77.84749	15.24448	25.20590	0.1882301	0.17196984	3.2025889	20	5 7.1	19.5
138877 2000 XG_{47}	16.6	X	45.00975	127.48542	43.97225	25.27206	0.5414409	0.31429064	2.1424716	20	7 22.9	19.8
138878 2000 YE_{1}	15.3	X	34.89242	224.48463	64.12183	16.38687	0.0380551	0.18878604	3.0094662	20	9 18.4	19.7
138879 2000 YQ_{2}	16.4	X	21.64379	353.26696	75.95110	22.84316	0.2028667	0.30550307	2.1833616	20	—	—
138880 2000 YK_{6}	16.6	X	177.64190	355.16279	42.54341	3.44727	0.1776932	0.32416264	2.0987502	20	4 15.8	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138881 2000 YD_9	15.9	X	169.21681	269.89128	251.63497	4.78512	0.0922044	0.23520686	2.5991782	20	9 14.0	19.9
138882 2000 YZ_9	16.7	X	352.03017	87.56479	344.86100	3.93159	0.0939401	0.30023900	2.2088081	20	—	—
138883 2000 YL_{29}	16.7	X	256.40411	115.87604	182.76584	21.89217	0.3440846	0.51770060	1.5360910	20	1 21.8	19.6
138884 2000 YQ_{37}	16.3	X	214.70589	219.89092	269.53292	6.02275	0.1086003	0.28740182	2.2741008	20	9 27.9	19.5
138885 2000 YR_{41}	16.5	X	290.38608	191.53482	302.04617	1.24723	0.0757409	0.29891802	2.2153107	20	—	—
138886 2000 YJ_{46}	16.1	X	125.22480	243.77165	278.50311	4.07095	0.0532273	0.27840369	2.3228405	20	7 30.2	19.0
138887 2000 YE_{50}	16.5	X	341.66588	223.58295	243.63449	1.97198	0.0303861	0.30166747	2.2018297	20	—	—
138888 2000 YQ_{52}	15.5	X	346.35678	160.54000	307.90681	5.98762	0.0718423	0.30308478	2.1949601	20	—	—
138889 2000 YY_{55}	16.7	X	282.73041	259.15156	230.24860	4.19511	0.0745056	0.29709398	2.2243689	20	—	—
138890 2000 YD_{61}	13.5	X	33.26812	299.18429	292.72629	23.86039	0.1835735	0.17074217	3.2179221	20	7 11.2	17.2
138891 2000 YY_{61}	16.2	X	226.22998	240.15238	297.48484	6.62061	0.0732010	0.29398666	2.2400152	20	12 30.2	18.6
138892 2000 YM_{64}	16.5	X	28.82503	79.67703	311.22724	4.55270	0.1941668	0.29980989	2.2109152	20	—	—
138893 2000 YH_{66}	18.1	X	25.56473	341.35686	265.27217	18.34506	0.7436210	0.77584393	1.1729688	20	11 24.8	20.4
138894 2000 YW_{67}	16.0	X	233.32750	178.24453	291.36270	5.72721	0.1905995	0.28510091	2.2863198	20	9 12.4	19.1
138895 2000 YL_{74}	15.6	X	274.80140	56.15209	5.06498	0.76896	0.2036952	0.18841076	3.0134611	20	8 21.2	19.5
138896 2000 YN_{74}	16.2	X	9.70050	185.11437	273.95451	3.71189	0.1633901	0.30694672	2.1765103	20	—	—
138897 2000 YV_{77}	16.3	X	328.11070	201.41154	271.91711	2.99307	0.1098553	0.30269993	2.1968201	20	—	—
138898 2000 YU_{87}	14.2	X	178.45752	339.69145	97.51338	16.23153	0.1805338	0.17512956	3.1639509	20	6 9.1	19.6
138899 2000 YD_{95}	14.8	X	249.22144	251.17337	120.39901	14.66077	0.0959110	0.17447698	3.1718353	20	6 4.4	19.6
138900 2000 YW_{97}	16.4	X	275.89473	352.35715	121.15588	7.43962	0.0626891	0.29237182	2.2482557	20	12 16.6	18.9
138901 2000 YU_{98}	16.4	X	347.27979	243.72663	295.03433	4.78000	0.1368868	0.25950844	2.4342680	20	1 19.6	19.1
138902 2000 YO_{102}	16.4	X	356.12025	163.81439	243.03959	6.19770	0.1067030	0.29613360	2.2291755	20	—	—
138903 2000 YA_{107}	15.1	X	172.98373	330.12267	110.71188	2.53653	0.1592362	0.17521809	3.1628851	20	6 7.4	20.3
138904 2000 YO_{108}	14.7	X	191.20668	319.35026	83.52989	6.40192	0.1680876	0.17271409	3.1933819	20	5 10.0	20.0
138905 2000 YK_{110}	16.9	X	309.91012	175.42758	322.62011	4.47859	0.0924066	0.30114746	2.2043637	20	—	—
138906 2000 YO_{118}	16.5	X	345.28610	111.91362	319.79345	7.93569	0.1384800	0.29678460	2.2259145	20	—	—
138907 2000 YB_{129}	16.2	X	352.18726	106.90569	341.77551	5.97160	0.0726304	0.30000986	2.2099326	20	—	—
138908 2000 YG_{130}	15.0	X	224.30618	95.23755	267.37619	3.90789	0.1898893	0.17453919	3.1710815	20	4 17.0	20.3
138909 2000 YO_{135}	16.1	X	10.87301	17.18417	27.47416	7.47368	0.0803379	0.29865725	2.2166001	20	—	—
138910 2000 YE_{136}	16.3	X	250.45887	161.06341	33.31022	2.41718	0.0508500	0.29910640	2.2143805	20	—	—
138911 2001 AE_2	19.2	X	33.68841	43.15475	171.45665	1.66159	0.0815421	0.62863240	1.3495994	20	6 17.3	17.4
138912 2001 AD_4	15.1	X	162.93546	326.62951	131.15354	12.12268	0.1934491	0.17340353	3.1849120	20	6 20.3	20.5
138913 2001 AJ_{11}	16.5	X	104.90969	276.99827	272.35566	4.20404	0.0844844	0.27877962	2.3207518	20	8 13.9	19.6
138914 2001 AB_{12}	15.8	X	294.89754	102.08533	279.02533	7.87115	0.1453333	0.28434545	2.2903676	20	8 14.9	18.1
138915 2001 AW_{13}	16.4	X	276.21856	107.75590	101.18992	5.46190	0.1202406	0.30438784	2.1886913	20	—	—
138916 2001 AS_{14}	17.0	X	267.72790	294.51466	170.01290	4.95997	0.1184223	0.29074919	2.2566128	20	11 13.5	19.2
138917 2001 AZ_{19}	16.9	X	34.21652	314.62192	63.43825	5.22214	0.1938319	0.29905480	2.2146352	20	—	—
138918 2001 AJ_{22}	16.6	X	188.20763	305.77145	194.56015	2.41501	0.0979953	0.28344825	2.2951982	20	9 14.7	19.8
138919 2001 AU_{23}	16.3	X	70.49142	1.90451	145.31312	2.82406	0.0739851	0.26743780	2.3859107	20	4 27.5	19.0
138920 2001 AE_{24}	17.0	X	241.94602	247.47409	208.46581	1.34536	0.1096781	0.28619416	2.2804937	20	9 19.8	19.5
138921 2001 AR_{24}	16.5	X	51.21997	326.86600	71.56044	5.93985	0.1698836	0.30383763	2.1913328	20	—	—
138922 2001 AY_{39}	16.3	X	332.96575	339.43447	82.04532	6.58059	0.1316122	0.29546889	2.2325175	20	—	—
138923 2001 AS_{40}	14.9	X	121.52885	251.88110	311.77626	4.80672	0.1872257	0.17979703	3.1089546	20	9 17.3	20.1
138924 2001 AV_{40}	16.7	X	87.42378	191.16501	358.56103	1.89317	0.1182561	0.27539575	2.3397236	20	7 29.5	19.8
138925 2001 AU_{43}	15.9	X	42.33431	149.28012	129.30491	72.15942	0.3767896	0.37737408	1.8965080	20	12 28.2	20.5
138926 2001 BA	15.8	X	218.77231	195.62652	343.15124	5.32274	0.1283479	0.29067513	2.2569961	20	12 10.6	18.6
138927 2001 BR	16.4	X	283.87917	132.09994	6.24098	5.88957	0.1068366	0.29543441	2.2326912	20	—	—
138928 2001 BP_1	17.6	X	346.51319	186.31123	210.68584	2.17209	0.1080729	0.29410760	2.2394011	20	12 26.8	19.9
138929 2001 BU_1	16.6	X	354.15660	161.74829	292.87868	2.27768	0.1119312	0.29949561	2.2124616	20	—	—
138930 2001 BQ_3	17.1	X	235.23308	113.30429	32.71570	6.04477	0.0595890	0.29138095	2.2533498	20	11 28.9	19.6
138931 2001 BJ_4	15.6	X	130.98849	203.51582	352.50151	13.39129	0.0582858	0.23239484	2.6201032	20	9 17.3	19.4
138932 2001 BB_8	14.2	X	122.02359	267.20519	316.68618	20.74612	0.2898219	0.18023052	3.1039674	20	10 6.9	20.1
138933 2001 BT_8	14.6	X	312.47009	25.24380	328.06559	6.96321	0.0729471	0.17881889	3.1202816	20	8 5.3	18.6
138934 2001 BW_8	16.7	X	255.82144	22.97445	110.26505	5.77897	0.0860209	0.29185900	2.2508886	20	12 9.8	19.0
138935 2001 BH_{12}	15.9	X	32.25674	263.56366	264.80093	4.10727	0.0972895	0.21441685	2.7645860	20	3 30.4	19.3
138936 2001 BK_{13}	17.0	X	2.07393	165.72780	258.57220	2.71684	0.0969670	0.29926849	2.2135809	20	—	—
138937 2001 BK_{16}	17.5	X	198.63570	252.37848	98.89104	31.81981	0.6778665	0.33027740	2.0727654	20	3 21.9	23.0
138938 2001 BJ_{18}	16.3	X	54.24732	204.88837	232.01264	5.59323	0.1110781	0.30645902	2.1788188	20	—	—
138939 2001 BE_{20}	16.8	X	272.36059	82.22901	325.49611	3.59210	0.1248249	0.28389295	2.2928007	20	8 23.2	19.2
138940 2001 BO_{23}	15.9	X	229.84472	324.90602	290.52543	3.63013	0.1372586	0.30460719	2.1876405	20	—	—
138941 2001 BU_{28}	16.5	X	78.45418	59.52829	121.70346	2.80323	0.1711231	0.27082928	2.3659504	20	7 12.6	19.4
138942 2001 BP_{29}	14.8	X	103.76527	38.47164	106.93294	7.24253	0.0628342	0.17072868	3.2180915	20	6 8.6	19.5
138943 2001 BT_{30}	16.0	X	107.85520	353.41339	153.00288	5.11464	0.1767893	0.27122524	2.3636472	20	6 30.3	19.4
138944 2001 BF_{31}	15.7	X	46.96039	7.67351	143.45189	6.32533	0.0525897	0.26347685	2.4097634	20	3 25.9	18.4
138945 2001 BZ_{37}	16.4	X	164.69360	334.72141	241.21103	10.14451	0.1823070	0.28858722	2.2678691	20	11 23.5	19.9
138946 2001 BA_{39}	17.3	X	141.76043	246.10699	319.68961	2.48126	0.1084409	0.28411788	2.2915905	20	10 19.8	20.5
138947 2001 BA_{40}	18.6	X	5.22617	0.06133	270.88579	12.84565	0.2537706	0.83278543	1.1188726	20	12 18.5	17.8
138948 2001 BR_{47}	16.1	X	155.35889	285.75878	162.30472	6.63748	0.0867627	0.26957909	2.3732596	20	5 28.9	19.5
138949 2001 BS_{58}	16.4	X	176.01300	335.96929	139.73460	4.31981	0.1192298	0.27722186	2.3294375	20	7 27.9	19.9
138950 2001 BR_{61}	15.9	X	92.18026	267.65427	309.97547	4.88565	0.1966846	0.27611816	2.3356409	20	9 17.8	19.5
138951 2001 BV_{62}	16.6	X	38.51749	298.05050	167.94343	3.06807	0.0728421	0.30702293	2.1761501	20	—	—
138952 2001 BP_{63}	16.5	X	242.38375	221.37940	285.22720	5.31342	0.1010742	0.29059862	2.2573922	20	12 4.2	19.0
138953 2001 BW_{68}	16.4	X	189.31485	135.55236	17.19645	4.26858	0.1808687	0.28235075	2.3011420	20	9 27.1	20.0
138954 2001 BD_{73}	16.6	X	294.73098	217.53371	249.14592	5.86302	0.1437313	0.29534530	2.2331403	20	—	—
138955 2001 BX_{73}	17.1	X	36.98981	304.48531	134.75972	3.46475	0.1104213	0.30494954	2.1860029	20	—	—
138956 2001 BK_{78}	16.7	X	291.14297	191.34761	214.43642	5.61123	0.1029607	0.28594167	2.2818360	20	9 24.2	19.0
138957 2001 BT_{79}	17.0	X	101.23561	239.48378	326.25301	3.05366	0.1492344	0.27755551	2.3275703	20	9 8.7	20.2
138958 2001 BZ_{79}	16.5	X	245.75762	199.38468	341.63461	2.71704	0.1062919	0.29439562	2.2379403	20	—	—
138959 2001 CZ_2	16.2	X	275.48544	75.87627	3.17693	5.81676	0.1003780	0.28644475	2.2791634	20	10 18.1	18.4
138960 2001 CQ_3	16.7	X	205.17338	135.54607	0.47898	5.79084	0.1238873	0.28335730	2.2956893	20	9 26.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
138961 2001 CJ_5	16.4	X	196.78794	161.11333	68.23585	4.17877	0.1128774	0.29220833	2.2490943	20	—	—
138962 2001 CP_7	16.5	X	92.92110	205.08845	15.22244	2.24916	0.1851160	0.27621357	2.3351030	20	9 23.4	19.9
138963 2001 CA_9	16.7	X	280.05364	74.73854	89.46079	3.45185	0.0903755	0.29750867	2.2223014	20	—	—
138964 2001 CL_9	15.4	X	176.38029	48.64827	52.48206	3.85231	0.2121138	0.22419876	2.6835761	20	7 6.3	20.0
138965 2001 CD_{17}	16.2	X	325.53254	24.03208	103.34325	4.90626	0.1422433	0.29998060	2.2100763	20	—	—
138966 2001 CS_{17}	16.2	X	308.50367	323.94427	109.78373	7.04222	0.0594157	0.29091893	2.2557349	20	12 11.9	18.5
138967 2001 CN_{18}	16.4	X	279.79358	354.34328	150.53539	5.84662	0.0980083	0.29606139	2.2295380	20	—	—
138968 2001 CT_{18}	15.0	X	172.80355	306.05270	128.20000	3.08330	0.1814859	0.17100674	3.2146022	20	5 30.9	20.4
138969 2001 CZ_{18}	16.8	X	165.45341	73.25544	131.47970	4.55393	0.1273198	0.28655217	2.2785938	20	11 14.6	20.2
138970 2001 CV_{19}	16.7	X	55.68934	264.30957	266.03234	21.06677	0.0523143	0.47301566	1.6313696	20	4 6.9	18.3
138971 2001 CB_{21}	18.4	X	55.93692	271.79873	353.72665	7.89894	0.3334578	0.93689874	1.0343661	20	—	—
138972 2001 CO_{21}	15.9	X	57.13913	350.60583	56.20813	5.81917	0.0862352	0.30359989	2.1924766	20	—	—
138973 2001 CZ_{22}	16.5	X	84.77027	15.34791	146.18031	2.31559	0.0676337	0.27107580	2.3645158	20	6 6.6	19.4
138974 2001 CX_{24}	16.3	X	143.53803	146.98466	53.82839	3.36596	0.1715889	0.28163553	2.3050362	20	10 16.6	20.0
138975 2001 CT_{25}	17.0	X	128.69058	98.15846	79.35104	3.21067	0.1064219	0.27754706	2.3276176	20	8 30.9	20.2
138976 2001 CJ_{26}	16.2	X	175.61800	100.98926	116.18404	5.55359	0.1056904	0.28706432	2.2758829	20	12 12.3	19.3
138977 2001 CY_{31}	17.2	X	224.39600	140.10816	32.94732	25.71495	0.0411588	0.44415632	1.7012918	20	—	—
138978 2001 CD_{32}	16.2	X	352.94288	125.63620	322.73134	50.32546	0.2549665	0.40499105	1.8092799	20	—	—
138979 Černice	16.7	X	56.85475	119.83029	307.00736	6.50137	0.0822395	0.30579187	2.1819867	20	—	—
138980 2001 CY_{36}	17.3	X	168.27900	140.21102	8.56614	1.71089	0.1371064	0.28171172	2.3046206	20	9 2.9	20.7
138981 2001 CE_{47}	12.8	X	309.63603	285.52454	146.01898	8.72939	0.0653016	0.08486152	5.1285610	20	10 24.6	19.4
138982 2001 CS_{49}	16.0	X	344.58304	194.71274	58.91774	9.55032	0.1034493	0.26631972	2.3925839	20	5 8.4	18.4
138983 2001 DX_4	16.2	X	194.93995	164.21238	11.08497	6.03284	0.1005916	0.28674888	2.2775516	20	11 7.9	19.2
138984 2001 DY_6	16.9	X	318.34393	223.26306	314.17764	3.72178	0.0758214	0.30464699	2.1874500	20	—	—
138985 2001 DP_7	15.7	X	337.31001	33.60160	60.02392	5.23724	0.1138590	0.29558495	2.2319331	20	—	—
138986 2001 DB_{12}	16.3	X	87.87721	160.00766	10.74511	4.65531	0.1830624	0.26948513	2.3738112	20	7 12.6	19.5
138987 2001 DN_{12}	16.5	X	340.66292	44.90201	171.26884	13.77007	0.1807529	0.26038829	2.4287813	20	2 22.4	18.9
138988 2001 DQ_{12}	16.5	X	113.82757	125.80654	76.44225	3.73058	0.1480486	0.27700414	2.3306580	20	9 19.9	19.9
138989 2001 DK_{14}	16.6	X	286.42097	64.40738	342.24468	2.92835	0.1852529	0.28486560	2.2875787	20	9 5.3	18.7
138990 2001 DV_{14}	15.9	X	340.31264	66.67338	154.04433	9.07601	0.1542100	0.26119893	2.4237535	20	3 5.8	18.2
138991 2001 DF_{16}	15.8	X	259.89700	60.55102	61.84032	5.93883	0.1090922	0.28906103	2.2653902	20	11 25.8	18.2
138992 2001 DS_{16}	16.5	X	253.89406	10.08659	104.81796	6.09537	0.1037328	0.28712526	2.2755608	20	11 8.1	19.0
138993 2001 DQ_{19}	15.9	X	249.05806	77.30089	44.77530	6.80464	0.0639606	0.28618205	2.2805580	20	11 14.1	18.5
138994 2001 DY_{20}	16.1	X	182.19729	176.80397	50.96221	7.04552	0.0936358	0.28937134	2.2637704	20	—	—
138995 2001 DR_{22}	16.9	X	253.43513	157.63469	336.86677	4.46780	0.0578346	0.29091148	2.2557734	20	12 10.4	19.4
138996 2001 DT_{22}	17.1	X	97.85330	147.92671	57.20789	1.50990	0.1603286	0.27613279	2.3355584	20	9 6.6	20.5
138997 2001 DA_{24}	16.6	X	68.85203	130.50092	114.68859	3.34128	0.1123865	0.27748557	2.3279615	20	9 22.0	19.5
138998 2001 DX_{26}	17.1	X	271.33758	95.87732	123.58918	2.86608	0.1638916	0.30128327	2.2037012	20	—	—
138999 2001 DU_{27}	16.9	X	33.78132	208.96208	2.28745	5.98880	0.1573475	0.26676539	2.3899183	20	6 10.8	19.2
139000 2001 DA_{28}	16.4	X	314.80579	296.38014	135.73558	6.11482	0.1386889	0.29104697	2.2550733	20	12 23.8	18.3
139001 2001 DS_{30}	16.8	X	114.57087	145.63030	57.38736	4.42137	0.0573858	0.27794698	2.3253843	20	9 15.6	19.9
139002 2001 DL_{31}	16.3	X	72.99955	165.48783	42.70868	3.30288	0.1803401	0.27114190	2.3641315	20	8 15.7	19.4
139003 2001 DE_{34}	15.7	X	165.95781	101.38339	10.25668	6.05087	0.1282398	0.27362235	2.3498222	20	7 13.1	19.2
139004 2001 DN_{35}	16.5	X	73.16342	223.20582	327.75525	5.87804	0.0613089	0.27227251	2.3575822	20	7 2.1	19.3
139005 2001 DF_{36}	16.3	X	159.70351	17.15978	152.24014	7.04888	0.0420718	0.28173420	2.3044980	20	9 25.3	19.3
139006 2001 DF_{37}	16.7	X	97.56924	225.73349	340.66236	4.37025	0.1037215	0.27683686	2.3315967	20	9 1.3	19.7
139007 2001 DD_{41}	16.3	X	130.84575	106.65816	109.21685	1.87941	0.1627400	0.28052849	2.3110965	20	10 23.8	19.9
139008 2001 DZ_{41}	16.2	X	330.34768	304.48279	316.16671	5.04723	0.1113935	0.26579725	2.3957182	20	4 18.3	18.9
139009 2001 DH_{42}	12.3	X	304.93552	256.40258	169.07457	5.45181	0.0124047	0.08166834	5.2613866	20	10 14.8	19.2
139010 2001 DA_{45}	16.3	X	208.93640	135.90799	349.08921	4.43698	0.0355870	0.28142005	2.3062127	20	9 26.0	19.2
139011 2001 DC_{45}	16.3	X	159.58431	13.16413	145.19520	5.82433	0.0399687	0.27872503	2.3210549	20	9 8.7	19.1
139012 2001 DH_{45}	15.7	X	310.44440	134.18159	148.76590	6.98771	0.1612756	0.26431737	2.4046520	20	4 15.5	18.4
139013 2001 DD_{46}	16.6	X	101.25782	138.18648	20.72211	2.88914	0.1300585	0.27003055	2.3706136	20	7 4.7	19.8
139014 2001 DG_{46}	16.6	X	343.05134	268.00245	125.94949	2.93333	0.0976735	0.28988928	2.2610732	20	12 14.1	18.8
139015 2001 DR_{57}	16.7	X	345.10554	168.76983	129.06625	3.28925	0.2104785	0.27252182	2.3561442	20	7 16.7	18.1
139016 2001 DU_{58}	15.8	X	67.63780	57.30100	318.17327	4.78057	0.1758360	0.29945514	2.2126609	20	—	—
139017 2001 DQ_{59}	15.7	X	66.54922	252.08490	4.93246	6.57511	0.0833871	0.27623688	2.3349717	20	9 29.1	18.4
139018 2001 DF_{60}	16.2	X	185.33488	245.47675	318.85085	7.55631	0.0434702	0.29036041	2.2586266	20	12 14.4	19.1
139019 2001 DK_{61}	16.3	X	265.89861	126.33297	311.58503	6.05641	0.0879580	0.28495985	2.2870743	20	9 30.1	18.9
139020 2001 DD_{64}	16.2	X	68.09546	284.02676	321.91397	2.77145	0.1387023	0.27670497	2.3323376	20	9 22.9	19.2
139021 2001 DE_{64}	15.3	X	108.09172	123.53816	148.32288	14.37436	0.3197418	0.23283895	2.6167705	20	12 10.7	20.3
139022 2001 DL_{64}	15.8	X	177.15480	142.43883	319.36257	6.46070	0.0489661	0.27429628	2.3459717	20	7 12.7	18.8
139023 2001 DU_{65}	16.3	X	139.89792	78.56404	179.62577	3.49314	0.1573949	0.28794712	2.2712288	20	12 24.3	19.8
139024 2001 DF_{71}	16.9	X	211.34160	231.63527	268.46711	1.50021	0.1702099	0.28379068	2.2933515	20	10 3.0	20.1
139025 2001 DR_{71}	16.2	X	79.26360	59.16083	157.17264	6.17906	0.1382502	0.27285649	2.3542172	20	8 27.4	19.3
139026 2001 DB_{75}	16.3	X	148.20119	350.14851	238.79431	1.36733	0.1862377	0.28639519	2.2794264	20	11 24.4	19.9
139027 2001 DS_{83}	16.8	X	20.09942	160.76486	85.81810	1.73605	0.1788923	0.26721511	2.3872361	20	7 14.0	18.7
139028 Haynald	16.7	X	241.80133	104.05491	44.40279	6.29364	0.0737137	0.28984961	2.2612794	20	12 9.8	19.2
139029 2001 DO_{91}	16.6	X	230.46964	249.47804	184.56846	2.50267	0.1459317	0.27808900	2.3245925	20	7 29.2	19.9
139030 2001 DE_{98}	17.1	X	287.73420	273.01302	250.67631	4.16000	0.1424069	0.29843497	2.2177006	20	—	—
139031 2001 DL_{102}	16.8	X	69.53263	190.50429	28.10095	6.43442	0.1739816	0.27261712	2.3555950	20	8 26.6	19.9
139032 2001 DY_{102}	16.3	X	321.86295	42.60762	74.01768	4.98976	0.0884183	0.29770861	2.2213063	20	—	—
139033 2001 DO_{103}	16.7	X	194.15561	268.27726	236.32535	3.80449	0.0840786	0.28314762	2.2968225	20	9 27.7	19.9
139034 2001 DZ_{103}	15.5	X	85.30933	242.62213	333.89502	13.40529	0.0555603	0.22591271	2.6699857	20	8 19.9	19.0
139035 2001 DF_{105}	14.7	X	336.38241	171.30674	142.24029	10.34507	0.0877978	0.17427422	3.1742950	20	7 17.1	18.8
139036 2001 DG_{105}	16.0	X	244.92183	258.21013	283.12840	4.63872	0.1201514	0.29483560	2.2357132	20	—	—
139037 2001 DK_{105}	16.7	X	266.81300	283.24269	266.63622	3.24578	0.1293746	0.29875679	2.2161077	20	—	—
139038 2001 ED_2	16.2	X	177.27137	43.36247	108.94825	10.63857	0.1832236	0.28054570	2.3110019	20	9 18.9	20.0
139039 2001 EP_3	16.3	X	311.42099	56.61386	352.60137	10.68635	0.1279440	0.28632196	2.2798150	20	11 3.2	18.5
139040 2001 EV_5	16.6	X	106.41806	126.13053	80.74973	3.81370	0.1013156	0.27561746	2.3384687	20	9 14.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139041 2001 EG_6	16.2	X	315.91878	47.74711	36.32542	7.64958	0.1035054	0.29031911	2.2588409	20	—	—
139042 2001 EK_6	16.1	X	0.12894	112.70041	129.11601	8.67777	0.0751800	0.26474860	2.4020402	20	5 22.0	18.8
139043 2001 ER_6	16.6	X	197.22382	107.27608	106.19030	4.07408	0.0612435	0.28924928	2.2644072	20	—	—
139044 2001 EK_7	15.9	X	97.14137	129.09117	120.32565	4.30661	0.1125919	0.27914392	2.3187323	20	10 31.6	19.1
139045 2001 EQ_9	15.9	X	89.14781	255.72089	17.73941	4.50020	0.1400846	0.28092566	2.3089177	20	11 22.7	19.3
139046 2001 EE_{13}	15.1	X	130.79351	173.64122	87.62973	24.32773	0.1361818	0.28535192	2.2849788	20	12 19.6	18.4
139047 2001 EB_{16}	17.1	X	211.21877	346.26027	149.53542	47.01135	0.3861204	0.38800280	1.8617133	20	9 17.9	20.3
139048 2001 EO_{20}	16.3	X	114.60858	86.64224	196.87739	6.08740	0.1362822	0.28725439	2.2748788	20	12 31.7	19.8
139049 2001 EH_{21}	16.4	X	225.06851	202.08729	304.65434	5.32569	0.0771380	0.28613203	2.2808238	20	11 10.6	19.2
139050 2001 EA_{22}	16.1	X	177.69205	312.42438	244.61751	4.71980	0.0951044	0.28599283	2.2815638	20	11 18.5	19.0
139051 2001 EJ_{23}	16.0	X	118.23286	48.84139	208.48773	5.17936	0.1433714	0.28324769	2.2962815	20	12 2.8	19.5
139052 2001 EG_{26}	15.9	X	107.15233	296.02865	4.79666	3.79681	0.1895466	0.28692057	2.2766429	20	—	—
139053 2001 EP_{26}	16.5	X	234.03838	232.00142	267.71388	0.81037	0.0896152	0.28602807	2.2813764	20	11 13.1	19.1
139054 2001 EJ_{27}	16.4	X	1.42998	261.95527	187.12412	6.82361	0.1360889	0.29863546	2.2167079	20	—	—
139055 2001 FT	15.7	X	24.70380	118.36049	94.20823	9.05007	0.1747672	0.26230998	2.4169046	20	5 29.1	17.8
139056 2001 FY	19.1	X	130.82702	110.42819	111.24473	4.73371	0.3274245	0.38061431	1.8857291	20	11 12.6	22.3
139057 2001 FB_1	16.7	X	180.39962	219.49611	339.29115	5.30090	0.0912135	0.28775994	2.2722136	20	11 23.4	19.9
139058 2001 FB_2	15.4	X	143.07932	189.11261	21.45107	26.69634	0.1981740	0.27901780	2.3194309	20	10 23.1	19.3
139059 2001 FQ_2	17.0	X	171.09114	311.18894	197.85120	2.77050	0.1447389	0.27902796	2.3193746	20	9 4.4	20.5
139060 2001 FD_3	16.4	X	92.43161	190.74012	43.40060	2.54173	0.1627453	0.27651886	2.3333840	20	10 9.3	19.6
139061 2001 FF_3	15.6	X	98.77451	89.09038	162.12333	5.80713	0.1554571	0.27861906	2.3216433	20	11 7.5	19.1
139062 2001 FD_4	16.7	X	113.28255	147.27407	72.61208	5.54367	0.2000436	0.27674183	2.3321305	20	10 15.2	20.5
139063 2001 FJ_5	16.4	X	236.60983	215.52760	289.17433	2.92548	0.1246139	0.28689474	2.2767796	20	11 17.7	18.9
139064 2001 FK_5	16.3	X	199.64900	151.41202	321.83151	6.54619	0.1025226	0.27823935	2.3237551	20	8 21.0	19.4
139065 2001 FJ_7	17.4	X	328.53002	255.33359	45.20135	3.08859	0.2249632	0.26727723	2.3868662	20	6 3.0	19.1
139066 2001 FY_8	16.1	X	196.36581	161.92352	77.45757	4.39156	0.1670476	0.23953400	2.5677807	20	—	—
139067 2001 FC_9	16.0	X	61.12184	345.19902	263.46521	6.95298	0.1315347	0.27274847	2.3548387	20	9 12.9	19.1
139068 2001 FG_{10}	16.8	X	337.54110	334.56584	289.87961	2.64961	0.1218983	0.26331167	2.4107711	20	5 8.0	19.2
139069 2001 FJ_{11}	16.3	X	334.08714	68.43951	169.79560	3.26109	0.1668346	0.25912719	2.4366551	20	3 18.1	18.8
139070 2001 FL_{11}	16.4	X	111.13015	205.94522	22.63348	2.77029	0.1890955	0.27731942	2.3288912	20	10 21.3	20.0
139071 2001 FA_{12}	16.5	X	278.22419	92.76184	33.86077	6.26523	0.0595522	0.28870847	2.2672341	20	—	—
139072 2001 FL_{12}	16.6	X	284.97372	298.17589	149.70895	3.32196	0.1224576	0.28556980	2.2838164	20	11 17.3	18.6
139073 2001 FP_{13}	16.5	X	326.05992	202.13554	20.96026	4.16510	0.0821427	0.25701401	2.4499930	20	2 27.3	19.4
139074 2001 FR_{13}	16.1	X	35.36045	140.75732	176.82277	4.84908	0.1542928	0.27907026	2.3191402	20	11 22.6	18.9
139075 2001 FT_{13}	16.3	X	167.28994	211.25710	24.97979	4.02139	0.0845313	0.28725411	2.2748803	20	12 29.6	19.3
139076 2001 FX_{13}	15.8	X	34.79696	255.61248	13.82522	6.07696	0.1614225	0.27143200	2.3624467	20	9 14.9	18.4
139077 2001 FM_{14}	16.2	X	138.37883	347.66250	184.22690	6.77864	0.1834343	0.27560233	2.3385543	20	9 2.2	19.9
139078 2001 FN_{14}	16.1	X	168.44905	10.60776	183.64635	5.07100	0.1430513	0.28217531	2.3020957	20	11 2.0	19.5
139079 2001 FR_{15}	16.1	X	109.11675	232.74830	11.35790	6.19729	0.1431644	0.27896728	2.3197109	20	11 4.6	19.7
139080 2001 FP_{16}	16.4	X	123.94239	138.30496	51.61785	2.78397	0.1446290	0.27487787	2.3426615	20	9 12.9	19.9
139081 2001 FU_{16}	16.4	X	15.56944	14.37841	156.97289	2.87646	0.1336451	0.25729445	2.4482125	20	3 1.7	18.8
139082 2001 FD_{18}	16.6	X	59.31908	36.08978	212.10064	2.06681	0.1387968	0.27208426	2.3586695	20	9 14.3	19.5
139083 2001 FZ_{19}	17.0	X	68.53398	217.93399	332.34267	1.76933	0.1546322	0.26717103	2.3874987	20	7 9.3	19.9
139084 2001 FY_{22}	16.4	X	330.09766	111.56313	121.67036	2.92243	0.1291837	0.25620460	2.4551504	20	3 11.3	19.2
139085 2001 FE_{25}	15.8	X	49.48321	249.33137	359.85987	4.63660	0.0980797	0.27080973	2.3660643	20	8 27.8	18.6
139086 2001 FL_{25}	15.6	X	135.46590	173.65022	355.67184	4.23881	0.1298410	0.27384072	2.3485728	20	8 27.2	19.1
139087 2001 FW_{26}	15.6	X	133.75607	207.24077	356.97502	11.64850	0.1142351	0.27755742	2.3275596	20	10 7.0	19.1
139088 2001 FD_{28}	16.8	X	152.34410	116.49955	54.95008	3.50259	0.1617667	0.27813178	2.3243542	20	9 17.6	20.5
139089 2001 FS_{28}	16.2	X	204.04199	106.28826	52.99704	6.17403	0.0955539	0.28349892	2.2949247	20	10 31.0	19.1
139090 2001 FE_{29}	16.0	X	88.47975	44.11128	154.16809	5.51815	0.2478334	0.26853328	2.3794174	20	8 26.2	19.6
139091 2001 FT_{30}	16.3	X	316.86603	324.94048	122.06132	2.98815	0.1231627	0.29032714	2.2587992	20	—	—
139092 2001 FU_{32}	15.4	X	247.53208	244.41899	223.97794	22.01111	0.3027836	0.28258214	2.2998857	20	9 7.1	19.2
139093 2001 FC_{34}	16.4	X	123.94905	18.64963	138.56310	1.25258	0.1358397	0.27256547	2.3558926	20	7 28.9	19.9
139094 2001 FK_{34}	16.5	X	214.79749	189.96135	342.45057	3.82020	0.1160813	0.28734321	2.2744100	20	11 27.4	19.3
139095 2001 FR_{34}	16.3	X	70.45197	231.32043	333.86526	0.83274	0.1317656	0.27014090	2.3699680	20	7 29.9	19.3
139096 2001 FS_{34}	16.3	X	175.93887	82.43553	14.77264	2.26476	0.1597086	0.27317349	2.3523955	20	7 2.7	19.9
139097 2001 FZ_{34}	15.9	X	200.61336	164.50523	316.02119	6.66721	0.0593633	0.27934053	2.3176441	20	9 4.2	19.0
139098 2001 FP_{36}	16.8	X	206.85047	317.64196	216.85814	2.32854	0.0465797	0.28592185	2.2819414	20	11 30.9	19.5
139099 2001 FK_{38}	16.0	X	305.77739	211.13444	234.69370	3.52547	0.0813379	0.28886525	2.2664137	20	12 23.9	18.2
139100 2001 FW_{39}	16.3	X	178.89339	55.37081	198.59076	4.97007	0.2820156	0.23755607	2.5820142	20	—	—
139101 2001 FH_{41}	16.0	X	54.14755	85.55781	187.11516	6.11387	0.1153646	0.27540565	2.3396675	20	10 9.6	18.7
139102 2001 FT_{42}	16.2	X	203.63899	18.89850	113.84360	1.24342	0.1271899	0.28021208	2.3128358	20	9 20.2	19.2
139103 2001 FW_{42}	16.5	X	115.26246	63.11932	172.75504	3.91817	0.0724657	0.27966639	2.3158434	20	10 30.9	19.6
139104 2001 FH_{44}	15.7	X	101.51879	64.26341	206.62098	9.58308	0.1487302	0.28166764	2.3048611	20	12 3.9	19.3
139105 2001 FX_{46}	16.3	X	328.94742	314.45384	304.95182	2.18811	0.1689910	0.26067957	2.4269717	20	4 7.2	18.8
139106 2001 FC_{47}	16.3	X	56.22764	184.89081	31.44398	2.95562	0.1492604	0.26732624	2.3865745	20	7 29.0	19.1
139107 2001 FL_{47}	15.9	X	17.77394	69.65919	178.98543	5.23793	0.2001573	0.26468157	2.4024457	20	7 13.7	17.9
139108 2001 FA_{50}	16.6	X	357.37384	212.59071	47.17162	1.18208	0.1641317	0.26492279	2.4009871	20	6 10.7	18.2
139109 2001 FV_{50}	16.2	X	44.92562	218.50079	321.40934	3.85458	0.0939946	0.26127418	2.4232881	20	5 4.2	18.8
139110 2001 FJ_{51}	16.5	X	177.40705	184.29313	19.37094	3.26804	0.1766856	0.28366589	2.2940241	20	11 18.9	19.8
139111 2001 FP_{53}	16.2	X	179.44205	135.23429	26.57530	6.72476	0.1843095	0.27898801	2.3195960	20	9 29.7	19.7
139112 2001 FZ_{53}	15.7	X	166.85170	52.39212	202.39049	31.32722	0.2550971	0.23386138	2.6091380	20	12 25.2	20.9
139113 2001 FA_{55}	16.1	X	61.64661	184.19818	58.03518	3.25099	0.1629351	0.27050927	2.3678160	20	9 15.2	19.1
139114 2001 FH_{57}	16.7	X	339.38357	191.33587	175.51489	7.79794	0.0136407	0.27987538	2.3146905	20	10 21.5	19.4
139115 2001 FU_{59}	16.2	X	176.83464	210.11685	49.18032	4.04748	0.2016065	0.23972775	2.5663970	20	—	—
139116 2001 FB_{60}	16.1	X	59.02562	116.25317	154.81878	6.50933	0.1057563	0.27702901	2.3305185	20	10 14.5	19.0
139117 2001 FD_{60}	16.5	X	168.18381	112.04955	59.43684	4.54692	0.1588740	0.28046631	2.3114380	20	10 3.4	20.0
139118 2001 FZ_{60}	16.7	X	76.59019	150.81888	77.27295	3.01718	0.1701677	0.27283073	2.3543653	20	9 15.4	19.9
139119 2001 FJ_{61}	16.6	X	75.09457	17.48559	151.85862	6.79895	0.0618132	0.26630193	2.3926904	20	6 3.8	19.6
139120 2001 FY_{61}	16.7	X	73.07725	149.48656	78.56270	3.53223	0.1168962	0.27349105	2.3505742	20	9 3.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139121 2001 FU_{62}	16.5	X	22.46666	133.34523	123.65213	3.12650	0.1840254	0.26813714	2.3817604	20	8 6.3	18.6
139122 2001 FT_{63}	16.5	X	319.16395	340.19091	154.69035	4.10980	0.0717420	0.29669018	2.2263867	20	—	—
139123 2001 FD_{64}	16.5	X	337.40322	60.91498	29.64978	7.95681	0.0775901	0.29337503	2.2431275	20	—	—
139124 2001 FY_{64}	15.9	X	159.14483	47.12216	74.91191	3.88004	0.1415337	0.27257836	2.3558183	20	7 19.3	19.5
139125 2001 FE_{65}	16.0	X	92.60076	108.30199	86.94647	4.74519	0.1372771	0.27136319	2.3628461	20	8 16.1	19.2
139126 2001 FX_{68}	16.1	X	185.60015	37.82750	75.38056	3.22011	0.1476404	0.27475223	2.3433756	20	8 3.8	19.6
139127 2001 FK_{69}	16.1	X	176.90762	25.28373	116.12886	4.11624	0.1176826	0.27673399	2.3321745	20	9 3.5	19.4
139128 2001 FZ_{69}	16.4	X	313.36853	87.57602	49.07380	5.66591	0.1069534	0.29553055	2.2322070	20	—	—
139129 2001 FA_{71}	16.3	X	328.15294	61.00712	77.52782	3.67006	0.1275180	0.29786126	2.2205473	20	—	—
139130 2001 FF_{71}	15.6	X	130.94584	49.87655	129.91612	5.92486	0.1194252	0.27450770	2.3447670	20	9 5.7	19.0
139131 2001 FB_{72}	16.4	X	226.90481	11.03152	125.06388	4.82239	0.1072505	0.28286007	2.2983789	20	10 28.3	19.2
139132 2001 FQ_{72}	16.2	X	194.18681	85.37002	43.44556	5.36643	0.0589425	0.27735252	2.3287059	20	9 12.1	19.2
139133 2001 FR_{74}	15.6	X	150.70517	181.13228	43.50419	7.37456	0.0603382	0.28185673	2.3038301	20	11 24.6	18.7
139134 2001 FJ_{76}	16.1	X	265.80959	338.10834	147.81209	4.92204	0.0972000	0.28728685	2.2747075	20	12 12.6	18.4
139135 2001 FK_{76}	16.0	X	326.97080	190.08450	47.20564	4.73528	0.1292491	0.25766714	2.4458512	20	3 13.1	18.7
139136 2001 FZ_{78}	15.8	X	175.06337	154.38169	96.10566	5.37269	0.1492434	0.23605367	2.5929584	20	—	—
139137 2001 FP_{81}	16.2	X	123.06054	298.77215	263.26952	6.72202	0.0669466	0.27738479	2.3285253	20	9 18.9	19.4
139138 2001 FM_{83}	16.9	X	129.52053	251.95779	348.63838	3.14311	0.1348612	0.28278024	2.2988114	20	11 21.1	20.3
139139 2001 FF_{84}	16.9	X	148.97928	138.37979	140.83732	2.00144	0.1522182	0.23881776	2.5729122	20	—	—
139140 2001 FC_{87}	16.3	X	248.46666	20.27530	116.83565	5.90409	0.0658123	0.28555585	2.2838909	20	12 5.3	18.9
139141 2001 FF_{87}	16.1	X	355.53535	142.16060	98.78846	6.97365	0.1101419	0.26206204	2.4184288	20	5 10.9	18.6
139142 2001 FP_{88}	16.2	X	26.27993	291.49595	28.80592	4.28884	0.0968876	0.27784808	2.3259361	20	11 2.5	18.8
139143 2001 FM_{91}	15.6	X	174.23448	105.64733	187.46093	10.84701	0.3027455	0.23747336	2.5826137	20	—	—
139144 2001 FD_{92}	16.2	X	2.59440	173.35422	87.61527	6.13012	0.2001256	0.26640224	2.3920897	20	6 27.6	17.8
139145 2001 FG_{92}	15.8	X	215.76398	78.93932	32.03086	8.72334	0.1014790	0.27998308	2.3140968	20	9 11.3	18.9
139146 2001 FW_{92}	15.9	X	173.45620	53.90579	115.11453	5.72758	0.0827337	0.28035247	2.3120637	20	10 10.7	19.1
139147 2001 FF_{94}	16.2	X	44.12091	129.39012	53.16773	11.07895	0.0902828	0.26396721	2.4067781	20	5 8.6	18.8
139148 2001 FL_{94}	16.4	X	243.78222	18.54730	73.55537	7.66634	0.0638968	0.28010049	2.3134501	20	9 28.6	19.3
139149 2001 FQ_{94}	15.7	X	303.09083	282.05787	15.24132	25.83662	0.1744103	0.26275405	2.4141807	20	4 14.6	18.6
139150 2001 FN_{95}	16.1	X	267.99021	91.51446	43.59265	8.66472	0.1258455	0.28968332	2.2621448	20	12 26.8	18.4
139151 2001 FO_{98}	15.7	X	215.15199	54.58057	171.33392	15.22199	0.1758140	0.23898827	2.5716882	20	—	—
139152 2001 FA_{99}	15.3	X	243.28972	49.58513	145.68258	13.94973	0.1036890	0.23994189	2.5648699	20	—	—
139153 2001 FW_{101}	15.7	X	125.38014	348.69959	248.54128	5.55314	0.1532754	0.28178044	2.3042459	20	11 13.3	19.3
139154 2001 FB_{105}	16.2	X	137.62948	198.98640	251.83056	4.05222	0.1514333	0.26634588	2.3924272	20	5 15.9	19.7
139155 2001 FO_{105}	16.2	X	145.38598	173.49424	294.54951	5.93921	0.0703878	0.27010003	2.3702071	20	6 10.9	19.3
139156 2001 FP_{106}	16.3	X	259.49876	192.20713	263.54696	4.74965	0.1344710	0.28416821	2.2913199	20	10 9.2	18.8
139157 2001 FS_{107}	16.7	X	117.32130	244.12314	2.31598	5.76493	0.1452053	0.28135089	2.3065906	20	11 15.8	20.3
139158 2001 FE_{108}	16.5	X	4.56351	198.28984	47.87046	1.98941	0.1446102	0.26489588	2.4011498	20	6 4.1	18.4
139159 2001 FM_{109}	16.6	X	40.35251	18.38313	195.63847	7.82260	0.0746148	0.26602376	2.3943581	20	6 16.1	19.4
139160 2001 FX_{111}	16.6	X	5.28798	208.04327	249.73601	3.67603	0.0842290	0.29811413	2.2192914	20	—	—
139161 2001 FW_{112}	16.2	X	339.42682	291.35038	309.94069	6.25898	0.0833307	0.26180561	2.4200077	20	4 8.1	19.1
139162 2001 FU_{113}	16.6	X	41.16350	39.04777	226.15863	1.83477	0.1657005	0.27183326	2.3601213	20	9 16.9	19.4
139163 2001 FW_{113}	16.9	X	7.57074	333.00496	263.06573	0.31126	0.1431512	0.26392635	2.4070266	20	5 25.2	18.9
139164 2001 FL_{114}	16.4	X	272.53261	17.22552	115.76161	4.85529	0.0598570	0.28982520	2.2614064	20	—	—
139165 2001 FC_{115}	16.4	X	4.51680	231.69697	46.15960	7.65864	0.1004763	0.26919334	2.3755263	20	7 26.5	18.9
139166 2001 FH_{118}	16.7	X	283.00204	208.43832	311.21729	4.79476	0.0742324	0.29568251	2.2314421	20	—	—
139167 2001 FQ_{122}	16.2	X	334.33247	83.76120	159.27076	5.90951	0.0605516	0.26020554	2.4299184	20	4 10.8	19.1
139168 2001 FN_{123}	16.3	X	41.76007	76.65355	183.85823	6.13894	0.0932870	0.27152579	2.3619026	20	8 29.2	18.9
139169 2001 FH_{124}	16.3	X	301.92215	319.63159	297.34197	5.50327	0.1145662	0.25721340	2.4487267	20	3 1.0	19.6
139170 2001 FU_{126}	15.5	X	55.20611	208.26352	52.80432	7.13850	0.1469860	0.27299413	2.3534258	20	10 2.3	18.5
139171 2001 FY_{126}	16.8	X	124.56094	137.66680	57.59392	2.95645	0.1638619	0.27512243	2.3412730	20	9 21.5	20.3
139172 2001 FQ_{129}	16.1	X	78.32310	160.05266	68.24973	2.76377	0.1832949	0.27066273	2.3669209	20	9 18.8	19.3
139173 2001 FW_{129}	16.9	X	79.04482	347.27999	193.87344	5.91936	0.1172275	0.26875528	2.3781069	20	7 3.9	19.9
139174 2001 FS_{131}	16.3	X	195.99304	166.52292	272.62435	4.10353	0.1941478	0.27279787	2.3545544	20	6 26.7	20.1
139175 2001 FN_{132}	16.7	X	217.66246	334.73077	126.14138	6.27821	0.0820764	0.27779571	2.3262284	20	8 30.2	19.6
139176 2001 FG_{133}	16.1	X	332.99923	90.72814	167.60266	6.50974	0.1065034	0.26044841	2.4284076	20	4 25.6	18.7
139177 2001 FQ_{137}	16.2	X	14.20265	122.57686	116.04668	3.53800	0.1449189	0.26270490	2.4144818	20	6 13.5	18.2
139178 2001 FR_{137}	16.0	X	71.04795	29.92739	165.48524	3.47888	0.1355307	0.26645781	2.3917572	20	7 16.3	19.0
139179 2001 FT_{137}	16.6	X	93.94956	104.66945	80.67006	3.05264	0.1504947	0.26880679	2.3778031	20	8 4.6	19.8
139180 2001 FU_{137}	16.4	X	217.58676	238.02127	24.68492	28.24761	0.2399476	0.24263840	2.5458317	20	—	—
139181 2001 FB_{138}	16.3	X	340.94371	357.45551	84.27946	4.38601	0.1355813	0.29202200	2.2500508	20	—	—
139182 2001 FC_{138}	15.1	X	198.77504	123.27628	150.58850	10.87681	0.0729316	0.19288638	2.9666639	20	—	—
139183 2001 FY_{140}	17.2	X	254.52430	60.52543	29.15372	6.53473	0.0995253	0.27903003	2.3193632	20	10 1.7	19.8
139184 2001 FU_{143}	15.6	X	303.80023	150.73925	57.75084	8.93015	0.1515373	0.19799175	2.9154437	20	1 8.1	19.8
139185 2001 FH_{144}	15.9	X	27.53777	200.29807	56.67139	6.00742	0.2070149	0.26586937	2.3952849	20	8 23.5	18.3
139186 2001 FR_{144}	16.3	X	32.54210	149.35398	86.23279	3.42931	0.0916734	0.26575913	2.3959472	20	7 8.1	18.9
139187 2001 FE_{147}	16.4	X	343.61704	244.61642	327.08575	7.48449	0.0733495	0.25753926	2.4466607	20	3 6.9	19.2
139188 2001 FO_{149}	16.4	X	252.93518	42.68916	105.08376	3.85381	0.1047371	0.28741030	2.2740560	20	12 21.4	18.7
139189 2001 FW_{149}	16.6	X	329.80886	152.84055	316.11146	5.27048	0.1229373	0.29444498	2.2376902	20	—	—
139190 2001 FM_{151}	14.8	X	129.24361	87.81028	75.68926	11.85613	0.1565498	0.27264548	2.3554317	20	8 17.9	18.6
139191 2001 FG_{152}	16.3	X	321.58162	19.86904	105.51109	5.29957	0.0870931	0.29683809	2.2256471	20	—	—
139192 2001 FC_{153}	16.4	X	14.74210	132.40522	120.30758	2.60241	0.1013105	0.26639510	2.3921325	20	7 3.3	18.6
139193 2001 FV_{156}	16.2	X	185.92905	26.60500	136.13762	9.67915	0.0700671	0.28062363	2.3105740	20	10 19.4	19.4
139194 2001 FB_{157}	16.3	X	48.55392	166.70390	47.30516	6.94056	0.0542997	0.26905061	2.3763664	20	6 26.4	19.1
139195 2001 FT_{158}	16.1	X	319.33982	350.57821	79.24762	4.19328	0.1629960	0.28790026	2.2714753	20	12 30.3	17.7
139196 2001 FJ_{161}	16.2	X	1.36075	315.36037	296.72100	2.21616	0.1471867	0.26236518	2.4165656	20	6 6.8	18.3
139197 2001 FR_{161}	15.8	X	329.25649	121.43958	99.94394	9.76337	0.2158329	0.25461740	2.4653429	20	2 9.6	18.7
139198 2001 FP_{162}	16.2	X	273.73187	329.75255	228.35298	2.31276	0.1495677	0.24440195	2.5335702	20	—	—
139199 2001 FV_{163}	16.7	X	5.22818	44.09795	168.76603	3.75453	0.1284943	0.26193135	2.4192332	20	4 14.3	18.8
139200 2001 FZ_{164}	16.2	X	6.94044	258.01089	339.70086	3.36282	0.0568493	0.26380024	2.4077936	20	5 23.6	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139201 2001 FC_{166}	16.2	X	55.27847	251.23897	16.47943	7.65055	0.1016945	0.27481648	2.3430103	20	10 2.3	19.0
139202 2001 FQ_{166}	16.3	X	78.16694	8.63255	267.17654	5.88316	0.1202882	0.27989018	2.3146089	20	11 11.9	19.5
139203 2001 FE_{167}	15.5	X	38.26527	245.04888	64.10381	5.38295	0.1357875	0.27533774	2.3400523	20	11 10.8	18.2
139204 2001 FQ_{169}	14.8	X	192.80997	113.87800	118.02636	14.17371	0.2411847	0.23520483	2.5991932	20	12 24.9	19.1
139205 2001 FA_{175}	16.0	X	313.66892	187.72235	91.64448	7.02187	0.1291092	0.26232588	2.4168069	20	4 21.7	18.8
139206 2001 FE_{176}	16.1	X	180.61403	49.17131	98.62392	7.26375	0.1312818	0.27880849	2.3205916	20	9 17.8	19.6
139207 2001 FW_{179}	16.2	X	127.06563	204.04484	69.76971	7.71140	0.0469557	0.28740560	2.2740808	20	—	—
139208 2001 FW_{191}	17.0	X	294.84439	83.44198	194.91552	1.11586	0.1704905	0.25864166	2.4397036	20	3 13.8	20.0
139209 2001 FB_{195}	16.5	X	111.99776	35.68646	181.90791	6.37081	0.0576353	0.27593008	2.3367021	20	9 29.9	19.4
139210 2001 GJ	17.0	X	141.99971	20.27831	189.97559	4.45240	0.1795586	0.27807814	2.3246531	20	10 26.4	20.8
139211 2001 GN_{2}	18.0	X	204.96206	3.38418	173.56063	26.07023	0.4523140	0.38878331	1.8592208	20	11 3.2	21.2
139212 2001 GE_{3}	15.1	X	111.90031	218.21116	73.70522	31.28981	0.2606467	0.23048203	2.6345797	20	12 29.1	20.0
139213 2001 GH_{7}	15.5	X	121.84564	194.46735	74.20504	15.31660	0.2402965	0.22957538	2.6415115	20	12 11.7	20.1
139214 2001 GS_{7}	15.1	X	125.65528	238.89307	51.11248	13.19682	0.3046433	0.23156694	2.6263444	20	—	—
139215 2001 GQ_{9}	16.1	X	132.81051	78.65488	113.52764	8.14408	0.1511311	0.27460245	2.3442276	20	9 27.4	19.8
139216 2001 GB_{10}	16.0	X	170.88961	95.90827	190.59278	11.37159	0.2515502	0.23896200	2.5718768	20	—	—
139217 2001 GW_{10}	15.9	X	350.90435	277.48349	24.84524	5.39024	0.1302288	0.26849700	2.3796318	20	8 9.2	18.1
139218 2001 GP_{11}	16.2	X	57.22603	94.04174	150.00789	4.72226	0.0951256	0.26928633	2.3749794	20	8 30.1	18.8
139219 2001 HF	15.4	X	144.89439	253.46918	10.10402	12.03024	0.1618615	0.23272690	2.6176103	20	12 25.1	19.9
139220 2001 HA_{1}	15.8	X	158.30436	331.93488	270.06221	4.13615	0.1860639	0.23249992	2.6193137	20	12 10.2	20.0
139221 2001 HL_{1}	16.6	X	358.54710	195.80690	40.54595	3.32132	0.1557887	0.26046227	2.4283214	20	5 5.3	18.6
139222 2001 HL_{4}	15.8	X	8.47504	188.98692	76.72406	6.22600	0.0975019	0.26352035	2.4094982	20	7 11.9	18.2
139223 2001 HB_{5}	16.4	X	160.73227	324.80627	260.76906	5.51166	0.1811537	0.28191422	2.3035169	20	11 30.7	19.9
139224 2001 HN_{5}	15.7	X	121.35853	150.29056	45.37013	6.69274	0.1749432	0.27199902	2.3591623	20	9 20.8	19.4
139225 2001 HE_{6}	15.5	X	259.76141	298.03139	285.46877	3.73111	0.2041196	0.24418397	2.5350778	20	—	—
139226 2001 HF_{6}	15.8	X	220.15953	330.88009	277.90506	3.12472	0.2186819	0.24066181	2.5597522	20	—	—
139227 2001 HC_{7}	16.1	X	61.82992	110.76746	176.63656	5.04466	0.2281436	0.22170908	2.7036288	20	11 13.4	20.1
139228 2001 HM_{11}	16.3	X	1.64131	54.75723	220.71519	1.54210	0.1632023	0.26490612	2.4010879	20	7 17.6	18.3
139229 2001 HU_{13}	16.2	X	49.13880	268.06595	42.97000	5.89914	0.1038085	0.27726012	2.3292232	20	11 21.8	19.1
139230 2001 HR_{16}	16.3	X	335.72950	7.46442	202.16416	6.08797	0.0868571	0.25284428	2.4768552	20	2 19.4	19.4
139231 2001 HW_{16}	16.5	X	79.48333	190.47497	59.39010	3.70595	0.1516087	0.27400088	2.3476575	20	10 15.2	19.8
139232 2001 HO_{17}	16.5	X	106.79919	327.25064	210.13283	5.81475	0.0392713	0.26825150	2.3810834	20	7 23.8	19.6
139233 2001 HT_{18}	16.2	X	134.70790	79.40170	192.90700	10.76636	0.1658218	0.23036034	2.6355074	20	12 25.5	20.7
139234 2001 HT_{19}	15.9	X	25.40436	350.70016	214.43914	7.02156	0.0754954	0.25981048	2.4323810	20	5 8.8	18.5
139235 2001 HY_{20}	16.3	X	315.89796	242.95717	25.62343	3.59188	0.1563680	0.25795499	2.4440313	20	4 2.5	18.8
139236 2001 HZ_{20}	17.0	X	248.57232	62.45959	201.48702	4.32935	0.1627608	0.29915334	2.2141489	20	1 2.3	20.3
139237 2001 HH_{22}	16.4	X	63.98107	77.15841	112.30327	1.79232	0.1533429	0.26491546	2.4010314	20	6 30.7	19.0
139238 2001 HP_{22}	15.7	X	48.99647	193.44569	13.13296	2.69258	0.1345019	0.26320288	2.4114354	20	6 28.9	18.4
139239 2001 HL_{23}	17.0	X	278.61168	120.84461	154.89000	1.16155	0.2050355	0.25434162	2.4671247	20	2 17.0	20.7
139240 2001 HQ_{27}	16.3	X	33.72682	213.60162	48.95396	3.67941	0.1577855	0.26695251	2.3888014	20	9 2.1	18.8
139241 2001 HT_{27}	16.2	X	68.46628	190.28030	50.09435	5.99839	0.1631116	0.26961940	2.3730230	20	9 22.3	19.4
139242 2001 HA_{29}	15.4	X	76.49369	7.71320	242.31094	9.37892	0.2294246	0.21913663	2.7247462	20	10 8.9	19.7
139243 2001 HH_{29}	16.2	X	21.96149	340.66094	245.48783	1.68115	0.1307343	0.26149328	2.4219343	20	6 7.9	18.5
139244 2001 HM_{30}	16.8	X	186.59687	335.90513	234.98442	5.45453	0.1222897	0.28389909	2.2927677	20	12 13.7	19.9
139245 2001 HS_{30}	15.9	X	272.68417	85.52924	131.24882	5.72244	0.1251291	0.24435621	2.5338863	20	—	—
139246 2001 HQ_{32}	16.2	X	13.40422	226.63424	34.23024	7.67096	0.0818728	0.26590188	2.3950897	20	7 13.5	18.8
139247 2001 HU_{32}	16.2	X	347.02439	60.41136	212.63617	7.58617	0.0777648	0.26290873	2.4132337	20	6 12.7	18.8
139248 2001 HA_{33}	16.0	X	204.27071	347.99497	223.23260	4.80526	0.1342075	0.23514875	2.5996064	20	12 21.4	19.7
139249 2001 HR_{33}	16.0	X	357.95448	134.09627	72.56947	2.75039	0.0612204	0.25611190	2.4557428	20	3 27.2	18.7
139250 2001 HJ_{36}	16.3	X	54.12783	161.06225	87.68284	2.47270	0.1440362	0.26803965	2.3823379	20	9 10.4	19.1
139251 2001 HU_{38}	16.7	X	67.94506	342.12358	41.83608	2.07696	0.1925150	0.29153789	2.2525410	20	—	—
139252 2001 HY_{38}	16.5	X	154.77680	305.09811	212.04210	6.53910	0.0624492	0.27282727	2.3543853	20	8 27.3	19.9
139253 2001 HR_{39}	16.0	X	256.73787	305.42441	46.38964	6.62226	0.1257592	0.26123380	2.4235378	20	5 10.7	19.4
139254 2001 HG_{40}	16.0	X	225.12559	30.54181	235.43866	3.78439	0.0254434	0.24587686	2.5234281	20	—	—
139255 2001 HP_{44}	16.7	X	227.15701	131.03008	26.94881	4.76982	0.1233108	0.28411992	2.2915795	20	11 22.3	19.5
139256 2001 HE_{46}	16.2	X	210.33283	77.24015	192.94679	17.05786	0.1929111	0.24263168	2.5458787	20	—	—
139257 2001 HV_{46}	16.0	X	9.68602	195.57549	38.88390	8.73262	0.1451210	0.26091203	2.4255300	20	5 25.8	18.2
139258 2001 HH_{47}	15.8	X	341.83996	267.22634	89.23092	5.73467	0.1575078	0.27233307	2.3572327	20	10 20.0	17.8
139259 2001 HR_{47}	16.2	X	90.70189	326.74904	260.54569	5.29313	0.1582671	0.27237415	2.3569957	20	9 24.0	19.7
139260 2001 HL_{49}	15.9	X	61.13413	356.22803	242.48355	9.36202	0.0885013	0.26910345	2.3760553	20	8 21.6	19.0
139261 2001 HQ_{51}	16.8	X	172.08580	155.00846	60.15445	2.37850	0.0558088	0.28264431	2.2995484	20	12 8.9	19.6
139262 2001 HC_{52}	16.6	X	195.95264	218.19049	298.47868	3.28606	0.0949747	0.28043378	2.3116167	20	10 14.5	19.8
139263 2001 HH_{54}	15.3	X	112.66065	121.23300	148.00043	12.02227	0.1796495	0.22789891	2.6544500	20	12 5.6	19.9
139264 2001 HN_{54}	15.9	X	94.01191	10.89308	140.35925	4.51214	0.1859694	0.26449511	2.4035747	20	6 22.2	19.1
139265 2001 HV_{54}	16.5	X	150.10981	18.85343	177.45183	5.96412	0.1486404	0.27731976	2.3288892	20	10 16.9	20.1
139266 2001 HB_{56}	16.0	X	44.30427	156.84582	80.29358	12.90952	0.1368180	0.26540463	2.3980803	20	8 10.7	19.0
139267 2001 HV_{56}	16.4	X	208.60198	76.93191	55.97308	3.76778	0.1663965	0.27835836	2.3230927	20	9 22.9	19.7
139268 2001 HZ_{56}	16.5	X	232.58340	336.62264	309.76599	3.10412	0.1886693	0.29813819	2.2191721	20	1 15.9	19.9
139269 2001 HW_{59}	16.6	X	192.61369	91.12352	57.74329	5.42701	0.1216417	0.27797662	2.3252190	20	10 1.6	19.9
139270 2001 HU_{61}	15.7	X	95.03255	93.74163	202.27852	12.03588	0.2740209	0.22679665	2.6630437	20	12 24.1	20.6
139271 2001 HM_{63}	16.5	X	112.41642	336.41821	264.79079	4.42837	0.1389452	0.27614233	2.3355046	20	11 3.9	20.1
139272 2001 HO_{63}	15.8	X	297.75526	33.82793	267.54632	5.64143	0.1394080	0.25806294	2.4433496	20	4 21.4	18.7
139273 2001 HQ_{63}	16.1	X	340.86077	172.59967	24.36528	5.62067	0.0237535	0.25202286	2.4822342	20	2 22.4	19.2
139274 2001 HV_{63}	15.9	X	219.14032	215.33385	16.84418	8.90913	0.1444344	0.24014491	2.5634241	20	—	—
139275 2001 HR_{64}	16.4	X	40.06230	145.95139	27.78608	2.93592	0.1341572	0.25826549	2.4420720	20	4 22.8	18.6
139276 2001 HY_{64}	16.3	X	141.70884	172.37755	355.99175	2.37954	0.1629374	0.27356607	2.3501445	20	9 1.7	19.9
139277 2001 JJ	17.4	X	202.83169	143.59909	54.48766	1.87130	0.1561514	0.28494634	2.2871465	20	12 11.5	20.4
139278 2001 JN_{2}	15.8	X	209.63128	200.65887	89.81317	12.83077	0.2460617	0.24144890	2.5541862	20	1 8.6	20.3
139279 2001 JM_{4}	16.1	X	188.45616	121.71871	143.62883	8.90597	0.2358959	0.23706312	2.5855923	20	—	—
139280 2001 JO_{5}	16.3	X	78.63830	40.21498	166.20952	2.43176	0.1554673	0.26746289	2.3857615	20	8 14.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139281 2001 JQ_5	16.4	X	207.25381	82.67700	85.16018	5.88108	0.0766954	0.28203325	2.3028687	20	11 18.1	19.2
139282 2001 JT_5	16.7	X	37.65204	133.54213	110.50065	2.64309	0.1520868	0.26564253	2.3966483	20	8 9.0	19.0
139283 2001 JZ_5	16.3	X	71.23146	334.94333	276.93044	2.29592	0.1974514	0.27200317	2.3591383	20	10 11.3	19.6
139284 2001 JM_6	15.6	X	57.77306	232.50798	329.05295	5.18573	0.1673082	0.26416702	2.4055644	20	7 12.3	18.3
139285 2001 JJ_7	16.0	X	125.36833	170.08772	111.31166	5.45911	0.1427511	0.23129180	2.6284268	20	12 28.7	20.1
139286 2001 JE_8	15.6	X	122.26932	257.65390	62.43686	10.08644	0.2160389	0.23388020	2.6089980	20	—	—
139287 2001 JT_8	16.0	X	67.17985	265.11879	304.47201	4.52470	0.1718766	0.26759932	2.3849505	20	8 6.4	19.0
139288 2001 JT_{10}	15.7	X	89.95087	146.14018	135.36198	14.37920	0.2457168	0.22367016	2.6878025	20	12 4.9	20.5
139289 2001 KR_1	17.6	X	112.59274	291.43086	102.76645	23.25303	0.8411438	0.69718829	1.2596097	20	4 15.3	19.9
139290 2001 KC_2	16.1	X	76.37473	239.07051	5.28049	1.32381	0.3057744	0.21851578	2.7299048	20	10 12.4	20.5
139291 2001 KL_3	15.2	X	339.27535	312.90814	49.28761	6.97084	0.1243285	0.27250628	2.3562338	20	10 19.7	17.3
139292 2001 KS_3	15.7	X	151.34400	31.34539	229.39926	11.93221	0.1358016	0.23168437	2.6254569	20	12 26.8	20.0
139293 2001 KF_4	16.4	X	129.08615	69.61651	226.11742	5.56084	0.1330098	0.28399292	2.2922627	20	—	—
139294 2001 KM_5	15.8	X	204.77703	237.15850	72.52258	4.35469	0.2722215	0.24239663	2.5475243	20	1 28.2	20.4
139295 2001 KK_6	15.8	X	133.43652	236.47293	81.82599	4.29285	0.2337784	0.23383003	2.6093712	20	—	—
139296 2001 KD_7	15.4	X	230.42770	9.52867	237.88125	12.10675	0.1523391	0.24051964	2.5607608	20	—	—
139297 2001 KH_8	16.4	X	52.67843	181.78754	79.68068	6.24160	0.2052379	0.26875453	2.3781113	20	10 7.8	19.6
139298 2001 KG_{12}	16.1	X	115.88142	104.76748	100.35333	6.24555	0.1732274	0.27165800	2.3611363	20	9 27.9	19.9
139299 2001 KH_{12}	15.7	X	331.82161	15.15304	204.84944	6.31509	0.1542083	0.25232764	2.4802350	20	2 17.5	18.6
139300 2001 KC_{13}	15.7	X	139.63321	255.04876	82.20179	11.75921	0.2646926	0.23593778	2.5938074	20	1 10.7	19.8
139301 2001 KN_{14}	15.7	X	246.18536	120.63043	94.28873	5.88505	0.1244254	0.24076362	2.5590306	20	—	—
139302 2001 KV_{14}	16.6	X	23.82117	93.93734	151.97095	3.45396	0.1696761	0.26339460	2.4102650	20	7 18.4	18.9
139303 2001 KA_{15}	16.6	X	108.98869	48.86866	166.22155	5.11788	0.1749264	0.27267880	2.3552398	20	10 1.9	20.1
139304 2001 KR_{17}	16.9	X	36.48770	28.66316	223.99949	8.01563	0.1893666	0.26583466	2.3954934	20	8 22.1	19.6
139305 2001 KS_{17}	15.6	X	58.75403	55.90112	168.90922	11.58698	0.1277697	0.26610269	2.3938846	20	8 7.3	18.7
139306 2001 KV_{17}	15.8	X	334.42284	138.94639	97.65066	9.84457	0.1381263	0.25568462	2.4584779	20	3 26.9	18.6
139307 2001 KD_{19}	16.0	X	71.71150	34.38963	128.32074	3.79483	0.1375822	0.26128588	2.4232158	20	6 1.2	18.8
139308 2001 KH_{20}	15.9	X	23.58345	151.25500	166.17516	7.15030	0.1311452	0.27486819	2.3427164	20	11 2.1	18.6
139309 2001 KH_{22}	16.0	X	230.80221	346.57877	248.69469	3.35779	0.1853987	0.24020352	2.5630071	20	—	—
139310 2001 KQ_{22}	16.1	X	281.37156	265.59481	56.62879	7.07232	0.1679682	0.25691764	2.4506057	20	4 26.9	19.3
139311 2001 KJ_{23}	16.6	X	43.46938	216.94156	6.55320	1.85978	0.1501491	0.26368922	2.4084694	20	7 18.2	19.2
139312 2001 KO_{23}	16.3	X	50.16961	208.52323	47.49362	7.39472	0.0908173	0.26780340	2.3837387	20	9 9.1	19.3
139313 2001 KD_{25}	15.8	X	53.35372	169.09899	27.52379	5.30398	0.1224725	0.26225843	2.4172213	20	6 18.6	18.6
139314 2001 KK_{25}	16.6	X	227.33249	209.56798	49.17173	3.34213	0.1901210	0.24181556	2.5516037	20	—	—
139315 2001 KL_{25}	16.3	X	41.14101	264.24989	343.97095	3.37108	0.1650902	0.26595789	2.3947534	20	8 23.4	18.8
139316 2001 KN_{25}	16.3	X	178.02065	39.41305	235.12215	3.81809	0.1925626	0.23620522	2.5918492	20	—	—
139317 2001 KY_{25}	15.2	X	106.53367	84.96294	256.84189	9.70137	0.2729177	0.23253806	2.6190273	20	—	—
139318 2001 KD_{26}	16.0	X	238.36029	238.18272	27.56925	5.00429	0.2131149	0.24354828	2.5394871	20	1 1.9	20.4
139319 2001 KL_{26}	16.4	X	43.34974	189.66073	68.09673	2.32877	0.1570774	0.26662087	2.3907819	20	9 9.5	19.0
139320 2001 KL_{29}	16.3	X	104.53884	307.12314	259.62273	3.87893	0.1826814	0.27192069	2.3596154	20	9 14.2	20.0
139321 2001 KA_{31}	16.4	X	59.03435	110.24080	129.76706	2.06102	0.1510220	0.26680826	2.3896623	20	9 5.0	19.4
139322 2001 KC_{32}	16.3	X	317.87256	71.64122	185.78954	1.82708	0.1762396	0.25415585	2.4683267	20	3 17.2	19.1
139323 2001 KD_{32}	15.5	X	138.70427	180.19996	143.59485	14.73143	0.2521215	0.23450902	2.6043320	20	—	—
139324 2001 KO_{32}	16.2	X	63.49223	26.89820	198.40350	4.24831	0.1494348	0.26665105	2.3906015	20	8 18.9	19.3
139325 2001 KT_{32}	17.1	X	151.09737	202.19169	95.08217	4.80185	0.2296806	0.28621018	2.2804086	20	—	—
139326 2001 KQ_{34}	16.4	X	172.66627	182.76589	109.60710	3.90440	0.1726033	0.23729227	2.5839275	20	—	—
139327 2001 KY_{35}	16.5	X	320.28019	57.69702	214.76276	6.04850	0.1699885	0.25616913	2.4553770	20	4 12.1	18.9
139328 2001 KO_{36}	15.6	X	78.52187	93.56795	229.81970	14.24499	0.2310836	0.22663605	2.6643016	20	—	—
139329 2001 KF_{37}	15.2	X	51.36384	249.93830	91.90601	10.21048	0.3210942	0.22244290	2.6976795	20	—	—
139330 2001 KW_{38}	15.3	X	117.72460	212.37129	102.35053	8.28181	0.3273520	0.22921290	2.6442956	20	—	—
139331 2001 KW_{44}	15.7	X	70.96298	46.70106	141.34866	8.75432	0.1543261	0.26281782	2.4137902	20	7 8.6	18.8
139332 2001 KH_{46}	15.6	X	155.94298	128.21565	215.67138	12.98507	0.1328149	0.24147868	2.5539763	20	1 17.1	19.7
139333 2001 KD_{47}	15.5	X	66.70690	225.20416	87.13851	14.02004	0.1671796	0.22468712	2.6796861	20	12 11.5	19.5
139334 2001 KJ_{50}	16.1	X	190.42783	136.36561	152.56894	8.33861	0.2584299	0.23909040	2.5709559	20	—	—
139335 2001 KJ_{52}	14.9	X	105.07354	90.62063	241.66439	11.47881	0.2574911	0.22712790	2.6604539	20	—	—
139336 2001 KE_{53}	16.3	X	272.86685	98.61526	188.78423	5.59881	0.1093136	0.25258207	2.4785691	20	3 7.2	19.7
139337 2001 KF_{53}	16.6	X	179.02278	310.52741	215.43758	5.98121	0.0518526	0.27535705	2.3399428	20	10 10.8	19.6
139338 2001 KV_{53}	15.5	X	133.80037	135.10545	149.51030	16.84990	0.2269322	0.23113521	2.6296138	20	—	—
139339 2001 KA_{57}	15.6	X	155.38978	109.02717	189.16627	13.33028	0.1922256	0.23621621	2.5917688	20	—	—
139340 2001 KB_{58}	15.9	X	137.18097	200.33575	100.24301	8.74495	0.1858117	0.23360737	2.6110289	20	—	—
139341 2001 KQ_{58}	16.1	X	118.30279	106.70516	205.77039	11.89133	0.2888767	0.22968251	2.6406901	20	—	—
139342 2001 KF_{60}	16.1	X	8.25947	178.76757	86.87635	5.49437	0.0766036	0.26479562	2.4017558	20	7 9.8	18.7
139343 2001 KC_{62}	16.1	X	297.74595	213.34452	85.16103	6.81913	0.0851048	0.25814344	2.4428417	20	5 1.1	19.1
139344 2001 KH_{66}	15.8	X	111.62687	325.25949	195.53442	22.33265	0.1220115	0.26755292	2.3852263	20	7 14.2	19.8
139345 2001 KA_{67}	16.7	X	323.21315	37.72823	108.55337	22.36530	0.7022023	0.40669346	1.8042273	20	—	—
139346 2001 KO_{70}	16.0	X	143.65414	92.90485	214.36374	10.90296	0.1741142	0.23425202	2.6062365	20	—	—
139347 2001 KM_{71}	16.2	X	194.34816	212.57493	75.81827	11.19567	0.1495410	0.24129756	2.5552541	20	—	—
139348 2001 KU_{73}	16.4	X	187.07250	164.87115	127.73294	4.96832	0.2419276	0.23971041	2.5665208	20	—	—
139349 2001 KL_{74}	16.3	X	40.35264	192.95598	43.79753	2.56766	0.1323798	0.26421765	2.4052571	20	7 30.5	18.8
139350 2001 KM_{75}	15.7	X	161.18982	119.77047	147.47093	13.86672	0.1727287	0.23296866	2.6157991	20	—	—
139351 2001 LJ_6	15.3	X	344.64213	132.43379	196.76619	6.51917	0.2517914	0.20970938	2.8058050	20	8 25.5	17.6
139352 2001 LY_7	15.0	X	331.84256	241.40866	285.54459	20.94791	0.0360185	0.23835933	2.5762101	20	—	—
139353 2001 LW_{11}	15.3	X	129.35194	68.35064	243.20694	10.79038	0.1888053	0.22823195	2.6518671	20	—	—
139354 2001 LD_{12}	15.3	X	134.17592	66.19807	255.51763	10.23369	0.2026349	0.23036337	2.6354843	20	—	—
139355 2001 LA_{13}	15.4	X	42.68251	178.04727	131.36362	18.83478	0.2696445	0.21561481	2.7543365	20	11 28.1	19.7
139356 2001 LL_{14}	15.7	X	201.13992	133.86502	151.03721	4.82453	0.2088933	0.23908649	2.5709839	20	—	—
139357 2001 LY_{15}	16.5	X	135.73559	338.07505	205.50405	9.60014	0.1306852	0.27109517	2.3644032	20	9 11.7	20.1
139358 2001 LJ_{18}	15.6	X	104.13790	115.02283	163.07801	14.86459	0.1041698	0.22584139	2.6705478	20	12 4.4	19.9
139359 2001 ME_1	16.5	X	129.88136	302.26223	84.66527	5.94935	0.8696699	0.23052918	2.6342204	20	4 9.7	22.8
139360 2001 MU_2	15.3	X	125.01539	228.29422	38.21014	6.86201	0.2447923	0.22467880	2.6797523	20	12 10.6	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139361 2001 MV_2	15.5	X	224.82545	255.37092	20.10276	5.95743	0.1878059	0.23932197	2.5692971	20	1 3.7	19.8
139362 2001 MZ_4	15.5	X	10.81055	337.77783	325.92330	10.20934	0.2283229	0.21158089	2.7892349	20	9 16.1	18.4
139363 2001 ME_8	15.5	X	73.63420	53.10134	216.55309	8.56940	0.1092569	0.21649041	2.7469048	20	10 17.9	19.5
139364 2001 MO_8	15.7	X	76.94322	5.35116	274.01637	6.44552	0.2802976	0.21909647	2.7250792	20	11 20.4	20.2
139365 2001 MX_8	15.8	X	66.28848	271.81075	61.86541	7.90623	0.1572963	0.22265921	2.6959321	20	—	—
139366 2001 MP_{10}	15.9	X	59.11729	268.28782	60.83998	3.54904	0.1856455	0.22066927	2.7121153	20	12 24.8	20.0
139367 2001 ME_{12}	15.0	X	122.11861	43.71375	325.67623	8.17676	0.1335671	0.23490945	2.6013715	20	1 16.9	18.5
139368 2001 MH_{12}	15.6	X	181.41196	248.96201	45.52746	2.58589	0.1592845	0.23468817	2.6030065	20	—	—
139369 2001 MY_{13}	16.6	X	200.31244	95.13689	161.23279	3.64822	0.1382761	0.23324540	2.6137296	20	—	—
139370 2001 MJ_{14}	15.5	X	75.56805	17.30219	296.12666	3.99666	0.1513565	0.21982565	2.7190497	20	12 18.7	19.5
139371 2001 MH_{16}	15.9	X	137.71647	259.75968	37.24304	2.93044	0.1339739	0.22866280	2.6485349	20	—	—
139372 2001 MD_{17}	15.4	X	224.27463	219.51638	71.62048	5.69268	0.2203124	0.24014073	2.5634538	20	1 21.3	19.9
139373 2001 MA_{18}	14.9	X	125.65716	16.56719	281.47636	11.03632	0.1776014	0.22597003	2.6695342	20	—	—
139374 2001 MW_{18}	14.9	X	45.48934	100.28607	226.96875	7.99536	0.1764101	0.21639503	2.7477119	20	12 5.8	18.8
139375 2001 MY_{19}	15.7	X	155.66289	359.41109	339.09783	5.93338	0.1290492	0.23653243	2.5894583	20	1 14.9	19.5
139376 2001 MN_{20}	15.8	X	75.87829	207.84737	93.46026	15.77146	0.2065442	0.22057446	2.7128924	20	12 10.9	20.1
139377 2001 MW_{20}	15.4	X	145.23951	16.13759	339.15842	8.82150	0.0959464	0.23691065	2.5867016	20	1 21.6	19.2
139378 2001 MH_{21}	15.3	X	54.74276	32.58868	335.01856	12.63279	0.1715378	0.22451069	2.6810898	20	—	—
139379 2001 MZ_{22}	16.2	X	213.89220	277.13617	84.93901	2.60213	0.1659489	0.24751611	2.5122744	20	4 7.8	20.2
139380 2001 MT_{23}	15.0	X	93.38945	321.75905	313.30490	13.37782	0.1935680	0.21818801	2.7326382	20	11 20.1	19.7
139381 2001 MC_{24}	15.6	X	137.68433	80.59813	204.50393	11.98512	0.1881839	0.22492564	2.6777914	20	—	—
139382 2001 MP_{26}	16.4	X	221.85520	17.05475	227.50054	4.92975	0.2215208	0.28881317	2.2666861	20	—	—
139383 2001 MA_{27}	15.3	X	263.13465	111.46698	116.27302	17.11639	0.1448493	0.24344555	2.5402015	20	—	—
139384 2001 MQ_{27}	15.6	X	35.47131	97.51083	238.67326	11.80726	0.2206364	0.21717139	2.7411595	20	12 10.9	19.3
139385 2001 MT_{28}	14.8	X	85.30708	174.02423	180.53532	5.35387	0.1730255	0.17483834	3.1674633	20	—	—
139386 2001 NP_1	15.6	X	79.68938	119.75950	214.54216	12.57661	0.1509950	0.22370737	2.6875045	20	—	—
139387 2001 NH_3	15.6	X	0.72357	199.78342	126.03978	7.58790	0.0738914	0.21247730	2.7813845	20	9 18.8	19.0
139388 2001 NQ_4	15.8	X	256.30335	119.08953	139.37345	1.93349	0.1064005	0.24128115	2.5553699	20	1 14.9	19.5
139389 2001 NQ_7	15.9	X	73.38184	225.53768	60.46908	6.24788	0.1687609	0.21836979	2.7311215	20	11 15.3	20.0
139390 2001 NU_7	15.3	X	4.14800	117.20154	314.00889	14.01088	0.0835155	0.22721462	2.6597768	20	—	—
139391 2001 NF_9	15.7	X	212.18807	57.55888	253.93317	7.51103	0.0669798	0.24130751	2.5551839	20	2 2.1	19.5
139392 2001 NB_{10}	16.0	X	46.75014	356.58050	23.78004	3.48068	0.1496962	0.22458978	2.6804604	20	—	—
139393 2001 ND_{11}	16.1	X	187.97495	102.54805	199.83909	3.00731	0.1974277	0.23607778	2.5927818	20	1 4.8	20.4
139394 2001 NU_{12}	15.4	X	48.75431	55.64622	292.45626	4.94074	0.0447764	0.22248271	2.6973577	20	12 18.6	18.9
139395 2001 NB_{17}	15.6	X	320.39641	302.92238	71.31140	7.26147	0.1754331	0.21074921	2.7965682	20	9 15.9	18.6
139396 2001 NJ_{17}	15.5	X	144.35503	303.16910	7.49566	9.66189	0.0933099	0.23098628	2.6307441	20	—	—
139397 2001 NS_{17}	16.0	X	89.52200	239.57787	85.56894	4.80141	0.1713699	0.22427500	2.6829679	20	—	—
139398 2001 NF_{18}	15.6	X	150.10725	155.36283	133.39476	14.44403	0.2487372	0.23013629	2.6372177	20	—	—
139399 2001 NH_{19}	15.8	X	102.48239	176.69003	108.73998	12.24571	0.1639094	0.22187365	2.7022917	20	12 13.1	20.2
139400 2001 NL_{20}	14.4	X	8.44017	213.66190	220.38278	15.46968	0.2086269	0.22324292	2.6912306	20	—	—
139401 2001 NT_{20}	15.4	X	220.75182	281.01516	315.39401	13.66320	0.0609460	0.22773800	2.6557002	20	—	—
139402 2001 NF_{22}	15.6	X	14.09169	182.75168	140.39125	7.75749	0.2010622	0.21053549	2.7984605	20	10 22.7	18.8
139403 2001 OG_1	15.7	X	43.66997	250.33176	70.09204	10.63277	0.1136445	0.21711194	2.7416599	20	11 17.3	19.3
139404 2001 OE_2	15.2	X	163.40428	15.47875	260.62997	11.81134	0.1274492	0.22836799	2.6508138	20	—	—
139405 2001 OG_2	15.3	X	171.46523	64.91450	197.24088	11.47566	0.1801974	0.22873256	2.6479964	20	—	—
139406 2001 OD_4	14.6	X	4.72446	37.15769	339.10456	9.91128	0.0840996	0.21830795	2.7316372	20	11 28.0	18.2
139407 2001 OX_9	15.5	X	114.18096	208.36468	113.17112	15.86363	0.1299641	0.22830723	2.6512841	20	—	—
139408 2001 OU_{11}	15.5	X	61.26715	188.92192	108.05043	10.74465	0.1814445	0.21748236	2.7385459	20	11 19.9	19.6
139409 2001 OC_{13}	14.9	X	45.72096	17.42836	313.23514	12.71338	0.1953233	0.21824788	2.7321384	20	12 13.0	19.0
139410 2001 OR_{14}	15.1	X	9.62706	51.91631	312.66104	11.86105	0.2452793	0.21486652	2.7607276	20	12 15.0	18.5
139411 2001 OD_{15}	16.0	X	330.64962	298.64822	24.63254	6.67121	0.1528594	0.25891429	2.4379906	20	7 28.4	18.3
139412 2001 OX_{15}	15.6	X	317.24339	313.26994	50.68002	7.14768	0.0757580	0.20985020	2.8045496	20	9 2.6	19.1
139413 2001 OH_{16}	15.4	X	31.90795	284.43611	34.73726	10.89167	0.3059750	0.21346747	2.7727768	20	11 25.1	19.2
139414 2001 OR_{16}	15.7	X	46.86152	150.72792	134.55576	9.83913	0.1364083	0.21391322	2.7689235	20	10 13.0	19.5
139415 2001 OH_{18}	14.9	X	75.99189	73.98946	281.76687	12.09252	0.1422522	0.22600808	2.6692346	20	—	—
139416 2001 OL_{18}	15.7	X	61.05794	170.44745	142.51763	10.21017	0.2115208	0.21907441	2.7252621	20	12 11.2	20.0
139417 2001 ON_{18}	16.4	X	247.71328	103.56988	175.18079	4.73482	0.1599781	0.24259909	2.5461067	20	1 26.5	20.4
139418 2001 OM_{20}	16.0	X	39.02337	22.65650	252.13423	12.76762	0.2579252	0.21074954	2.7965653	20	9 26.9	19.9
139419 2001 OR_{20}	15.0	X	85.57749	60.11106	249.24187	12.77375	0.1918749	0.21960844	2.7208423	20	12 25.8	19.5
139420 2001 OF_{26}	15.4	X	182.93067	89.30639	173.53331	15.16867	0.0915719	0.23548270	2.5971481	20	—	—
139421 2001 OA_{27}	15.2	X	93.76101	54.13129	319.50161	10.98600	0.1857907	0.23105685	2.6302083	20	—	—
139422 2001 OJ_{28}	15.9	X	114.63219	334.51536	65.10369	4.99662	0.2357022	0.23525817	2.5988003	20	2 29.9	19.7
139423 2001 OQ_{32}	15.2	X	186.50990	277.79065	77.17236	7.82619	0.2025426	0.24200055	2.5503032	20	3 9.6	19.6
139424 2001 OU_{33}	15.6	X	73.63741	26.06255	45.55300	6.08016	0.1794259	0.23449473	2.6044378	20	2 7.7	18.5
139425 2001 OE_{34}	16.3	X	266.48014	201.49297	23.76447	4.88052	0.1849672	0.23838117	2.5760527	20	—	—
139426 2001 OM_{34}	15.2	X	102.64795	333.09874	355.03547	14.37740	0.1231513	0.22618479	2.6678441	20	—	—
139427 2001 OW_{35}	15.6	X	74.64819	24.61598	344.72228	10.93890	0.1275452	0.22653593	2.6650866	20	—	—
139428 2001 OO_{38}	15.1	X	70.26148	54.71877	26.11593	12.68691	0.2557868	0.23409090	2.6074323	20	3 2.0	18.1
139429 2001 OH_{40}	15.8	X	134.45397	316.47211	111.23810	13.97245	0.2348529	0.23894986	2.5719638	20	4 27.5	20.2
139430 2001 OA_{45}	15.2	X	189.12602	152.07108	149.80404	14.36051	0.1542592	0.23559219	2.5963434	20	1 3.7	19.5
139431 2001 OM_{45}	15.5	X	66.87231	149.41485	157.78826	17.74961	0.1568807	0.21803908	2.7338824	20	12 5.5	19.9
139432 2001 OS_{45}	15.4	X	26.85661	224.48100	102.03166	7.82089	0.2506983	0.21471686	2.7620103	20	11 23.4	18.9
139433 2001 ON_{47}	15.7	X	177.14177	165.33698	140.15799	9.52733	0.1287490	0.23334961	2.6129514	20	—	—
139434 2001 OL_{48}	15.1	X	73.78058	153.96937	261.48931	13.37445	0.0919510	0.23184913	2.6242129	20	1 2.1	18.2
139435 2001 ON_{51}	15.7	X	180.72136	213.36211	82.57509	5.18637	0.0743817	0.23420006	2.6066220	20	—	—
139436 2001 OT_{51}	15.4	X	158.07926	245.24092	356.79741	8.62483	0.1763525	0.22586534	2.6703590	20	12 8.2	19.9
139437 2001 ON_{52}	15.2	X	88.49851	321.19112	88.23537	13.78465	0.1528866	0.23298240	2.6156963	20	1 27.5	18.5
139438 2001 OY_{52}	15.5	X	24.90032	276.02060	81.12831	8.84500	0.3108756	0.21584415	2.7523851	20	—	—
139439 2001 OK_{54}	15.6	X	3.91038	316.03482	94.22727	11.18060	0.2961755	0.21587672	2.7521082	20	—	—
139440 2001 OW_{55}	14.8	X	92.37900	96.89653	340.23573	13.20813	0.1635004	0.23293226	2.6160716	20	3 8.0	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139441 2001 OY_{56}	15.4	X	178.47317	300.31653	317.28314	7.90040	0.1404314	0.22873938	2.6479437	20	—	—
139442 2001 OQ_{60}	16.0	X	156.10040	64.04357	241.11192	7.96966	0.1956412	0.23207913	2.6224788	20	—	—
139443 2001 OT_{60}	15.1	X	210.09549	264.19610	302.15233	13.14787	0.0626621	0.22713780	2.6603765	20	12 30.5	18.8
139444 2001 OY_{61}	15.0	X	331.34333	280.87013	108.34223	7.15698	0.0736130	0.21466881	2.7624224	20	10 29.5	18.4
139445 2001 OE_{63}	16.1	X	52.19576	170.41124	152.00204	4.10757	0.2874119	0.21696485	2.7428988	20	12 20.6	20.3
139446 2001 OU_{63}	15.5	X	77.94187	45.59541	339.23538	12.67678	0.2737779	0.22690469	2.6621983	20	—	—
139447 2001 OD_{64}	15.3	X	83.35295	229.41294	114.20139	5.19428	0.1061311	0.22441599	2.6818440	20	—	—
139448 2001 OL_{64}	15.8	X	108.48388	102.50340	175.46610	12.74343	0.1889863	0.22219044	2.6997226	20	12 10.8	20.5
139449 2001 OX_{64}	16.0	X	260.34821	222.39225	17.50647	4.60465	0.2227905	0.24026942	2.5625384	20	—	—
139450 2001 OC_{65}	15.5	X	134.17802	224.42077	86.47633	6.39289	0.1363068	0.22889697	2.6467283	20	—	—
139451 2001 OE_{65}	15.1	X	105.72358	31.16801	323.36233	13.60311	0.1107637	0.22995987	2.6385663	20	—	—
139452 2001 OK_{66}	15.4	X	194.00480	158.39091	185.14498	9.19126	0.1449858	0.18517675	3.0484453	20	2 29.5	20.5
139453 2001 OT_{67}	15.9	X	181.56676	217.67770	42.54392	3.99148	0.1503814	0.23038758	2.6352996	20	—	—
139454 2001 OD_{69}	15.8	X	153.93418	268.97329	7.35162	4.49434	0.2102322	0.22714753	2.6603006	20	—	—
139455 2001 OC_{71}	15.4	X	3.14708	222.58528	117.94419	5.78439	0.2115154	0.20965950	2.8062500	20	10 27.6	18.4
139456 2001 OT_{71}	16.4	X	235.08284	84.96449	164.50982	2.45371	0.1970947	0.29058779	2.2574483	20	—	—
139457 2001 OJ_{74}	15.1	X	194.70920	222.72191	139.28641	10.89630	0.1155503	0.18940397	3.0029171	20	3 27.2	19.9
139458 2001 OT_{74}	13.5	X	298.38904	19.06092	292.24641	12.48335	0.1871061	0.19529378	2.9422333	20	4 28.6	17.7
139459 2001 OY_{74}	15.2	X	43.05372	40.79807	292.70289	8.74268	0.1903853	0.21696392	2.7429067	20	12 12.4	19.1
139460 2001 OS_{78}	15.3	X	0.46523	289.08995	133.69776	10.63449	0.1856832	0.21939290	2.7226240	20	—	—
139461 2001 OC_{80}	14.9	X	320.71379	335.84687	60.02160	10.35840	0.2204955	0.21083934	2.7957712	20	10 15.9	17.5
139462 2001 OD_{84}	15.2	X	35.42810	287.44881	352.38335	19.57161	0.2380720	0.21246196	2.7815184	20	9 27.4	18.8
139463 2001 OF_{85}	15.5	X	9.62639	157.97552	222.48886	3.52851	0.0559283	0.21968496	2.7202104	20	12 9.7	18.9
139464 2001 OH_{86}	14.8	X	324.17757	81.28472	341.07900	3.76352	0.1612667	0.21334460	2.7738413	20	11 27.5	17.6
139465 2001 OF_{88}	16.0	X	65.88250	346.73473	330.97618	1.94943	0.1829560	0.21929091	2.7234681	20	12 17.2	20.0
139466 2001 OU_{88}	14.7	X	129.63685	171.34253	124.33884	9.19406	0.1160769	0.17326560	3.1866020	20	—	—
139467 2001 OT_{90}	15.5	X	146.02683	159.33321	85.72171	3.81022	0.0355757	0.22154464	2.7049665	20	12 4.2	19.4
139468 2001 OV_{90}	16.2	X	282.02371	302.11973	289.34692	3.50795	0.1154320	0.24084930	2.5584236	20	1 8.6	19.9
139469 2001 OF_{91}	15.7	X	29.02138	334.97219	149.45926	14.25086	0.0350489	0.24047211	2.5610982	20	1 22.2	18.9
139470 2001 OK_{91}	14.9	X	265.03497	142.98633	224.13171	16.17219	0.1322896	0.20030516	2.8929524	20	6 9.6	19.2
139471 2001 OY_{91}	15.5	X	57.50369	145.58482	246.01091	13.44424	0.1108105	0.22540975	2.6739560	20	—	—
139472 2001 ON_{96}	16.2	X	289.90743	84.13321	242.77121	5.14430	0.3686560	0.19901671	2.9054251	20	4 14.9	20.6
139473 2001 OK_{99}	16.4	X	91.27019	159.61081	124.05318	4.31469	0.2305162	0.27207707	2.3587111	20	12 12.6	20.3
139474 2001 OW_{100}	15.0	X	81.98538	235.38882	122.87390	15.87240	0.1896922	0.22614371	2.6681672	20	—	—
139475 2001 OT_{102}	14.9	X	330.57865	272.44265	112.24087	9.97725	0.1636293	0.21132904	2.7914505	20	10 23.7	17.9
139476 2001 OC_{104}	15.3	X	152.63497	163.57123	114.81136	14.27670	0.1520935	0.22738249	2.6584676	20	—	—
139477 2001 OK_{104}	15.5	X	96.55317	166.82674	133.07948	17.08708	0.1763044	0.22051547	2.7133761	20	12 25.4	20.1
139478 2001 OP_{104}	15.2	X	17.36873	332.75973	209.19136	16.95377	0.1423867	0.17899400	3.1182462	20	3 29.1	18.9
139479 2001 OW_{105}	15.5	X	95.30056	114.35596	224.22259	4.69310	0.1687079	0.22471237	2.6794854	20	—	—
139480 2001 PU_{1}	15.2	X	29.75592	295.32437	95.22607	5.36493	0.1357677	0.22293968	2.6936705	20	—	—
139481 2001 PB_{3}	15.3	X	67.61713	19.07548	256.15474	8.47072	0.2536010	0.21418471	2.7665832	20	11 3.3	19.7
139482 2001 PP_{7}	15.0	X	350.24770	221.91793	156.87237	9.62291	0.2076823	0.21523986	2.7575343	20	11 26.1	17.9
139483 2001 PZ_{8}	15.2	X	218.07935	265.96514	86.95187	2.19052	0.0858180	0.19050154	2.9913717	20	4 7.0	19.7
139484 2001 PZ_{10}	16.1	X	198.30316	311.91143	7.00001	1.64211	0.1807059	0.23869302	2.5738085	20	2 1.8	20.2
139485 2001 PT_{14}	15.6	X	52.63891	246.36736	144.42744	2.47732	0.0513784	0.22753963	2.6572435	20	—	—
139486 2001 PT_{15}	15.6	X	76.47799	208.19102	88.37797	11.53352	0.2639542	0.21945071	2.7221458	20	12 9.9	20.0
139487 2001 PA_{20}	14.8	X	121.11422	176.89056	344.84299	14.76044	0.0701294	0.20469261	2.8514643	20	7 26.2	19.1
139488 2001 PU_{21}	15.9	X	214.18120	325.52119	329.30062	3.30449	0.1155744	0.23734225	2.5835647	20	1 18.1	19.9
139489 2001 PU_{23}	15.5	X	96.06437	220.83466	83.63650	7.97253	0.0654947	0.22118530	2.7078953	20	12 21.9	19.4
139490 2001 PY_{23}	15.5	X	63.90028	240.59645	59.55816	7.94486	0.0992083	0.21619717	2.7493881	20	11 13.6	19.4
139491 2001 PF_{26}	15.9	X	13.59597	222.35742	143.45598	15.90597	0.2883550	0.21406548	2.7676104	20	12 29.7	19.5
139492 2001 PK_{26}	14.9	X	202.47023	234.46694	143.99345	14.57540	0.1788350	0.19150271	2.9809368	20	4 23.4	20.1
139493 2001 PL_{28}	16.0	X	230.53382	76.79558	235.28128	0.66722	0.1278289	0.24238687	2.5475927	20	2 22.1	19.7
139494 2001 PE_{31}	15.9	X	239.91726	331.53338	217.51574	12.95162	0.0275717	0.22459184	2.6804439	20	—	—
139495 2001 PF_{31}	15.5	X	61.76381	101.22153	237.39298	12.87939	0.2083496	0.21953615	2.7214395	20	—	—
139496 2001 PJ_{31}	15.2	X	190.25708	51.36099	224.94228	11.72461	0.1351505	0.23134547	2.6280203	20	—	—
139497 2001 PC_{34}	15.1	X	147.05748	283.02982	307.09763	11.73519	0.1101002	0.21899611	2.7259117	20	11 12.1	19.6
139498 2001 PJ_{34}	14.5	X	239.73601	182.87024	302.84548	16.13580	0.1295424	0.21143529	2.7905152	20	10 3.0	18.9
139499 2001 PU_{35}	15.5	X	60.46668	171.22539	263.43190	11.95436	0.2583268	0.22911244	2.6450686	20	1 24.9	18.0
139500 2001 PO_{36}	15.3	X	159.30250	246.54791	42.79012	13.29235	0.1531096	0.22898385	2.6460587	20	—	—
139501 2001 PF_{37}	15.3	X	20.81558	232.74886	103.54991	15.06956	0.1454732	0.21369098	2.7708431	20	11 14.7	19.0
139502 2001 PT_{37}	15.3	X	3.44293	33.62020	35.79455	9.72469	0.0161633	0.22451997	2.6810160	20	—	—
139503 2001 PB_{39}	15.8	X	87.80199	257.41979	65.85885	11.59442	0.2834209	0.22210508	2.7004142	20	—	—
139504 2001 PU_{39}	15.7	X	338.91402	131.09607	286.56704	7.55094	0.0933042	0.21619809	2.7493802	20	12 15.9	19.1
139505 2001 PF_{40}	14.9	X	248.91090	27.31534	274.74474	9.43921	0.0756176	0.18839207	3.0136604	20	3 4.4	19.5
139506 2001 PM_{40}	15.4	X	26.46809	258.31191	243.24001	12.26181	0.1232862	0.23533375	2.5982438	20	2 6.4	18.5
139507 2001 PL_{41}	15.1	X	44.26881	182.90375	260.47059	10.42341	0.2658616	0.22587295	2.6702990	20	1 2.7	16.9
139508 2001 PW_{42}	16.5	X	70.61215	70.71080	222.66545	8.29302	0.2540624	0.21586320	2.7522232	20	11 29.8	20.8
139509 2001 PC_{47}	16.8	X	176.82250	82.88708	298.06277	0.97226	0.2093092	0.24084297	2.5584685	20	3 28.7	21.1
139510 2001 PG_{47}	15.3	X	37.35308	98.86697	295.24083	9.96783	0.0581269	0.22324983	2.6911751	20	—	—
139511 2001 PV_{48}	15.0	X	26.29624	181.46329	268.09387	21.64679	0.0486117	0.22974794	2.6401887	20	—	—
139512 2001 PY_{49}	15.2	X	75.74813	337.57335	18.43020	14.59690	0.1279750	0.22322921	2.6913409	20	—	—
139513 2001 PA_{50}	15.6	X	232.72815	244.81508	83.55537	11.41783	0.1328541	0.24307907	2.5427540	20	3 21.7	19.7
139514 2001 PM_{50}	15.6	X	6.87637	321.61557	74.19634	10.83214	0.1671653	0.21742076	2.7390631	20	—	—
139515 2001 PD_{53}	15.7	X	162.87426	56.86819	159.15462	5.10002	0.0543218	0.21947037	2.7219833	20	11 17.7	19.6
139516 2001 PA_{57}	16.3	X	347.84626	148.50842	203.88779	1.64742	0.2518258	0.21054427	2.7983826	20	10 13.3	18.5
139517 2001 PY_{57}	14.7	X	136.05987	190.93436	326.90910	16.27370	0.0400270	0.20262270	2.8708509	20	8 3.5	18.8
139518 2001 PJ_{59}	15.2	X	328.63102	299.52449	164.73884	15.93319	0.0956344	0.21981811	2.7191118	20	—	—
139519 2001 PP_{60}	15.0	X	313.59466	115.92121	311.68575	3.98496	0.1024164	0.21735950	2.7395778	20	11 17.3	18.1
139520 2001 PM_{61}	15.8	X	352.46801	39.42129	341.72850	5.04197	0.1099208	0.21446202	2.7641978	20	11 18.2	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139521 2001 PA_{65}	15.1	X	304.12532	289.85882	109.55210	6.90607	0.0398831	0.20928980	2.8095537	20	10 3.2	18.8
139522 2001 QX_{1}	15.3	X	111.93792	252.39308	339.92336	11.96081	0.1573085	0.21388686	2.7691510	20	10 11.9	19.8
139523 2001 QH_{2}	15.0	X	273.77618	304.25253	132.85047	9.92001	0.1385865	0.21028504	2.8006820	20	9 26.5	18.7
139524 2001 QJ_{2}	15.5	X	143.30089	332.89186	352.99775	2.88669	0.0990753	0.22975423	2.6401405	20	—	—
139525 2001 QN_{3}	15.8	X	74.08457	322.04736	323.84672	7.26000	0.2153769	0.21755916	2.7379014	20	11 18.2	20.1
139526 2001 QU_{4}	15.6	X	347.50832	212.51122	151.36798	14.33822	0.1979216	0.21184002	2.7869599	20	10 30.6	18.6
139527 2001 QM_{5}	15.4	X	318.18325	297.30404	335.86951	8.68386	0.1097709	0.19783623	2.9169714	20	4 19.5	19.3
139528 2001 QO_{5}	15.7	X	340.31041	52.27814	329.89734	6.90087	0.2393681	0.21211559	2.7845455	20	11 5.2	18.3
139529 2001 QO_{9}	15.6	X	117.30810	63.15525	311.95444	3.95110	0.2279270	0.23117858	2.6292850	20	1 30.5	19.4
139530 2001 QF_{11}	15.8	X	154.49562	44.68282	257.79862	2.37078	0.1528423	0.22886631	2.6469647	20	—	—
139531 2001 QD_{12}	15.2	X	39.81915	156.98281	173.59674	5.41869	0.1134324	0.21509671	2.7587576	20	11 24.6	18.9
139532 2001 QM_{12}	15.6	X	354.57145	8.93031	341.63039	3.37451	0.2042243	0.21049236	2.7988427	20	10 19.6	18.3
139533 2001 QW_{12}	14.7	X	155.82674	59.09456	335.35792	14.34754	0.1445870	0.18654294	3.0335431	20	3 22.5	19.6
139534 2001 QS_{18}	15.9	X	213.89794	224.75160	143.88225	3.41090	0.1803848	0.24411758	2.5355373	20	4 15.8	20.0
139535 2001 QC_{21}	14.9	X	279.92533	247.30532	159.59381	15.10790	0.1439186	0.20440995	2.8540924	20	8 19.5	18.5
139536 2001 QY_{24}	15.2	X	162.87930	263.62376	181.43901	11.79457	0.1056591	0.19295933	2.9659161	20	6 3.0	20.0
139537 2001 QE_{25}	15.2	X	141.69202	265.69394	9.10973	7.03485	0.2813898	0.22432007	2.6826085	20	—	—
139538 2001 QZ_{35}	15.2	X	0.34406	274.02383	115.80498	5.84962	0.1195646	0.21930781	2.7233282	20	12 16.6	18.5
139539 2001 QJ_{36}	16.0	X	23.11588	219.51808	143.39213	2.91353	0.2039241	0.21782773	2.7356505	20	12 26.6	19.6
139540 2001 QY_{37}	15.4	X	49.02294	319.79993	325.81363	8.56707	0.1836329	0.21386065	2.7693773	20	10 14.9	19.3
139541 2001 QR_{38}	15.4	X	113.35532	203.25747	129.19488	14.81338	0.1342879	0.22915965	2.6447053	20	—	—
139542 2001 QH_{40}	16.1	X	19.29797	80.14314	285.00382	0.77373	0.2410614	0.21718846	2.7410159	20	12 29.8	19.4
139543 2001 QL_{45}	16.7	X	303.96521	269.90148	43.16506	1.25129	0.2115923	0.25344097	2.4729661	20	5 7.8	19.5
139544 2001 QJ_{46}	15.6	X	39.03999	161.54623	161.39558	6.67967	0.0618843	0.21540956	2.7560858	20	11 7.4	19.3
139545 2001 QZ_{48}	15.9	X	121.18097	16.51163	316.26997	1.38583	0.0824601	0.22814686	2.6525264	20	—	—
139546 2001 QJ_{50}	15.0	X	333.51068	113.53047	336.66342	13.07196	0.1640206	0.22072363	2.7116699	20	—	—
139547 2001 QC_{51}	15.1	X	22.74282	297.01305	111.85521	4.82332	0.2227029	0.22243268	2.6977622	20	—	—
139548 2001 QG_{55}	15.5	X	283.28185	207.41835	110.38666	4.26413	0.1866134	0.19755815	2.9197079	20	4 24.0	19.6
139549 2001 QJ_{56}	15.1	X	252.09989	242.31693	110.43355	3.55632	0.1215370	0.19739617	2.9213049	20	5 9.9	19.5
139550 2001 QX_{56}	15.2	X	85.22870	309.69576	350.36902	14.19316	0.0827218	0.21902412	2.7256793	20	12 3.0	19.5
139551 2001 QF_{57}	15.4	X	100.31398	235.53107	97.72748	3.15697	0.0889225	0.22468432	2.6797084	20	—	—
139552 2001 QK_{58}	14.8	X	275.68490	343.25881	359.01931	11.95643	0.0900608	0.19813226	2.9140651	20	5 24.9	19.1
139553 2001 QZ_{58}	15.6	X	42.18967	52.05626	313.25212	5.44868	0.0472934	0.21923893	2.7238986	20	12 31.9	19.3
139554 2001 QV_{59}	15.7	X	141.24082	278.21311	103.47402	5.92368	0.1727688	0.23601221	2.5932620	20	2 27.5	19.6
139555 2001 QP_{67}	16.3	X	35.35239	36.61645	19.08646	8.45839	0.2316946	0.27629849	2.3346245	20	—	—
139556 2001 QT_{67}	15.3	X	352.16936	283.48850	109.55314	9.91749	0.1725828	0.21532430	2.7568133	20	12 13.5	18.3
139557 2001 QF_{68}	14.2	X	357.05503	47.71685	314.04867	26.55575	0.2089965	0.21174732	2.7877732	20	10 28.9	17.9
139558 2001 QJ_{68}	15.0	X	60.32066	169.55848	221.89324	13.58312	0.1764605	0.22455425	2.6807431	20	—	—
139559 2001 QH_{70}	15.7	X	40.45257	142.59266	194.03232	9.49679	0.2743973	0.21518088	2.7580381	20	12 23.7	19.9
139560 2001 QL_{71}	14.4	X	355.98883	201.38315	278.83521	26.72769	0.1546170	0.17581036	3.1557777	20	—	—
139561 2001 QF_{72}	15.4	X	22.93629	346.16840	35.17001	2.89125	0.1853155	0.21538378	2.7563057	20	—	—
139562 2001 QE_{74}	14.5	X	11.95298	48.91382	359.80661	7.39345	0.2281682	0.21485013	2.7608679	20	—	—
139563 2001 QJ_{75}	15.2	X	21.98816	28.94391	11.86774	5.31367	0.1755058	0.21508112	2.7588909	20	—	—
139564 2001 QC_{76}	13.8	X	126.73513	0.81191	20.46903	14.61163	0.1514759	0.17544948	3.1601037	20	2 20.6	18.8
139565 2001 QL_{77}	15.3	X	186.60238	332.58962	48.18534	4.55020	0.3335691	0.18472758	3.0533849	20	4 9.9	21.1
139566 2001 QR_{77}	14.5	X	171.30943	208.48897	207.63439	18.59272	0.1927999	0.18465864	3.0541448	20	5 8.5	19.7
139567 2001 QM_{80}	14.7	X	151.54886	5.62927	35.92710	18.42156	0.2036328	0.18033619	3.1027548	20	4 8.8	19.9
139568 2001 QL_{81}	14.5	X	261.51889	18.51074	332.41826	9.01268	0.0787443	0.19368135	2.9585404	20	5 20.6	19.0
139569 2001 QU_{84}	15.8	X	149.57825	309.12674	102.85414	6.05915	0.2623662	0.24120113	2.5559351	20	4 19.1	20.2
139570 2001 QF_{87}	14.9	X	177.41803	158.28108	233.44746	9.88146	0.1383538	0.18855660	3.0119070	20	4 10.5	19.9
139571 2001 QF_{88}	15.6	X	2.87299	228.63192	151.11322	4.26277	0.1154689	0.21637779	2.7478579	20	12 6.2	19.0
139572 2001 QE_{90}	14.4	X	165.88177	84.48837	272.18261	20.67231	0.0166391	0.18024561	3.1037942	20	2 5.5	19.2
139573 2001 QH_{90}	14.8	X	130.77395	264.60569	115.77073	17.31737	0.2593497	0.17686899	3.1431727	20	3 2.3	20.1
139574 2001 QR_{90}	14.9	X	192.24378	226.57316	116.37552	24.42956	0.1865754	0.18437710	3.0572531	20	3 5.3	20.3
139575 2001 QW_{91}	15.6	X	22.74734	31.50566	259.47733	5.50805	0.0914269	0.21005956	2.8026859	20	8 31.9	19.1
139576 2001 QZ_{91}	16.4	X	227.23933	209.40606	52.95251	7.15794	0.1561766	0.23579766	2.5948348	20	—	—
139577 2001 QP_{93}	13.8	X	160.12863	331.56273	46.93331	15.64432	0.2044972	0.17909994	3.1170164	20	3 23.3	19.2
139578 2001 QP_{94}	15.5	X	296.86330	180.38822	194.87595	1.63774	0.0782650	0.20338696	2.8636547	20	8 11.9	19.1
139579 2001 QB_{96}	15.9	X	271.58002	116.37108	265.62439	0.95262	0.0815091	0.20373094	2.8604304	20	7 15.9	19.7
139580 2001 QZ_{96}	15.2	X	122.61651	343.46709	270.30148	4.13460	0.1143651	0.21952903	2.7214983	20	11 19.9	19.4
139581 2001 QJ_{103}	15.5	X	91.14121	170.48909	119.48402	10.23021	0.0937391	0.21928915	2.7234827	20	12 2.9	19.6
139582 2001 QA_{105}	14.4	X	126.58606	201.87251	207.14112	3.83663	0.1513130	0.17844599	3.1246270	20	3 16.4	19.2
139583 2001 QK_{105}	15.2	X	341.86781	223.93348	165.51939	25.47777	0.0979157	0.20881709	2.8137922	20	11 16.5	19.1
139584 2001 QX_{105}	15.1	X	175.99383	35.46952	248.68336	13.75153	0.1697233	0.23067161	2.6331360	20	—	—
139585 2001 QB_{110}	15.7	X	333.00179	352.58622	13.37681	7.67606	0.1592619	0.20945146	2.8081079	20	9 26.6	18.6
139586 2001 QS_{110}	16.1	X	139.18947	59.48381	230.54832	11.34555	0.1487994	0.22322968	2.6913370	20	—	—
139587 2001 QO_{111}	16.8	X	307.31934	138.44873	325.51921	18.99972	0.0838853	0.37488472	1.9048943	20	—	—
139588 2001 QS_{111}	16.0	X	261.36968	104.99663	326.36043	6.03250	0.1212950	0.25576226	2.4579804	20	9 5.4	19.1
139589 2001 QT_{111}	15.6	X	92.05126	170.60022	269.96601	10.81762	0.1557903	0.23332592	2.6131283	20	3 6.0	19.2
139590 2001 QJ_{113}	14.5	X	41.58788	266.93977	270.22325	9.22658	0.0412278	0.19025419	2.9939640	20	4 21.4	18.6
139591 2001 QS_{113}	15.9	X	338.98420	139.08837	281.45680	8.09859	0.1430585	0.21620140	2.7493522	20	12 23.9	18.9
139592 2001 QK_{114}	16.1	X	94.68475	62.96573	212.14489	7.00658	0.2477827	0.21809329	2.7334293	20	11 28.4	20.7
139593 2001 QL_{114}	14.4	X	131.54217	193.32560	290.70348	8.21125	0.0654558	0.19634397	2.9317325	20	6 14.4	18.7
139594 2001 QN_{114}	15.2	X	210.94482	190.16916	192.43205	10.24365	0.1152414	0.19339509	2.9614592	20	5 4.9	19.8
139595 2001 QN_{116}	15.4	X	9.52587	62.79777	309.09437	6.84790	0.1903764	0.21364812	2.7712136	20	12 15.2	18.8
139596 2001 QX_{116}	14.7	X	40.53015	356.72386	297.58891	9.06382	0.1991794	0.21023504	2.8011260	20	10 16.2	18.6
139597 2001 QD_{118}	14.8	X	170.44862	128.74376	308.03585	8.99606	0.0868028	0.19364274	2.9589337	20	5 28.5	19.5
139598 2001 QT_{120}	15.0	X	48.96835	285.34609	125.58749	12.31666	0.1977971	0.22756390	2.6570546	20	—	—
139599 2001 QJ_{122}	15.2	X	330.28134	307.45275	116.93026	9.26991	0.1625679	0.21718966	2.7410058	20	12 15.6	18.1
139600 2001 QL_{122}	15.6	X	330.09827	78.33567	338.49055	24.08012	0.1848028	0.21575532	2.7531405	20	11 28.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139601 2001 QY_{124}	15.4	X	343.28731	14.45544	21.46651	5.20427	0.1671000	0.21469362	2.7622095	20	11 28.4	18.2
139602 2001 QH_{125}	14.6	X	186.18675	82.86229	316.77256	9.59568	0.0540400	0.19147451	2.9812294	20	4 25.7	19.2
139603 2001 QR_{125}	15.4	X	345.26164	347.95772	10.70569	4.02326	0.1116020	0.21057786	2.7980850	20	10 7.3	18.7
139604 2001 QP_{126}	15.7	X	347.15689	193.64993	176.94126	15.28770	0.2250287	0.21260422	2.7802774	20	11 9.7	18.5
139605 2001 QH_{127}	15.5	X	57.29922	30.75852	256.35285	6.58334	0.1813945	0.21465500	2.7625409	20	10 29.2	19.4
139606 2001 QJ_{127}	16.1	X	278.94200	357.87252	260.31150	7.34420	0.1721249	0.24321833	2.5417833	20	1 29.4	20.0
139607 2001 QZ_{127}	15.7	X	17.62740	153.69178	196.05725	8.95949	0.1637365	0.21486221	2.7607645	20	11 26.2	19.2
139608 2001 QF_{128}	16.1	X	226.19520	28.90841	227.93997	5.71732	0.3034071	0.23697369	2.5862428	20	—	—
139609 2001 QB_{129}	15.8	X	126.85351	95.17137	206.32663	6.18543	0.1374583	0.22533855	2.6745192	20	—	—
139610 2001 QX_{132}	14.6	X	349.73831	308.77394	19.13095	16.00692	0.3088203	0.20630411	2.8365959	20	9 19.7	16.7
139611 2001 QG_{133}	16.2	X	25.38852	163.80022	186.85205	12.73486	0.2172289	0.21517313	2.7581043	20	12 15.7	20.0
139612 2001 QZ_{135}	15.2	X	347.92110	223.29202	213.90018	8.74140	0.2458707	0.21494008	2.7600976	20	—	—
139613 2001 QG_{136}	15.3	X	85.83052	94.66212	334.59081	13.37941	0.1289896	0.23015955	2.6370400	20	2 15.3	18.5
139614 2001 QW_{136}	14.8	X	220.04308	103.52139	281.93627	8.28134	0.0933930	0.19120048	2.9840772	20	5 16.3	19.4
139615 2001 QX_{136}	14.8	X	224.38174	70.02753	299.77462	9.00771	0.1154405	0.19010066	2.9955757	20	4 27.7	19.6
139616 2001 QY_{136}	15.0	X	45.11607	145.81298	253.85510	8.61138	0.1817706	0.21972045	2.7199175	20	—	—
139617 2001 QS_{137}	14.7	X	248.19200	37.91419	338.99843	9.75964	0.0832435	0.19351661	2.9602193	20	6 7.8	19.2
139618 2001 QW_{138}	14.3	X	109.86158	99.54226	330.53052	12.16123	0.1836368	0.23164869	2.6257264	20	3 20.7	18.2
139619 2001 QD_{141}	14.7	X	177.08630	146.42616	263.14861	12.57099	0.1764633	0.18580564	3.0415628	20	5 1.9	19.9
139620 2001 QF_{141}	16.4	X	85.25972	107.97862	219.92916	20.45071	0.0903956	0.37439892	1.9065418	20	—	—
139621 2001 QO_{141}	15.6	X	350.62046	234.64896	136.08637	5.18209	0.0847079	0.21281446	2.7784460	20	11 2.8	19.0
139622 2001 QQ_{142}	18.3	X	341.06972	337.92568	83.26400	9.31667	0.3111052	0.58083656	1.4226566	20	—	—
139623 2001 QR_{142}	14.4	X	207.36266	335.80987	317.55993	21.06524	0.0750932	0.18210701	3.0826078	20	1 20.1	19.2
139624 2001 QX_{146}	15.2	X	91.80152	288.01968	68.58067	15.84616	0.1145111	0.22587907	2.6702508	20	—	—
139625 2001 QF_{149}	15.8	X	63.58048	357.05037	20.57154	2.92739	0.0933674	0.22642474	2.6659590	20	—	—
139626 2001 QF_{150}	15.5	X	202.91935	225.21124	91.29937	5.47804	0.2842051	0.23570998	2.5954783	20	2 4.5	20.2
139627 2001 QO_{150}	17.3	X	48.88081	345.79692	191.56276	25.14017	0.0350400	0.40236249	1.8171512	20	4 25.9	18.7
139628 2001 QQ_{151}	16.1	X	168.35417	320.93233	102.77239	5.17736	0.1369691	0.24522920	2.5278692	20	5 13.2	20.0
139629 2001 QO_{152}	15.9	X	15.24679	155.79232	192.77026	4.50002	0.1761263	0.21191859	2.7862710	20	11 21.7	19.2
139630 2001 QY_{155}	16.3	X	103.16936	124.97190	175.69303	4.30200	0.2335218	0.22174301	2.7033530	20	—	—
139631 2001 QP_{156}	15.3	X	358.65218	218.63629	165.56040	13.89758	0.1827641	0.21497509	2.7597980	20	12 14.5	18.7
139632 2001 QT_{156}	15.5	X	3.80687	113.26543	241.69337	2.98745	0.1270072	0.21292461	2.7774877	20	11 4.2	18.8
139633 2001 QN_{157}	15.5	X	253.22314	48.15799	316.29872	7.40762	0.1555220	0.19807490	2.9146277	20	5 18.9	20.1
139634 2001 QQ_{157}	15.5	X	226.57251	4.58569	320.46299	7.59756	0.1697936	0.19032796	2.9931902	20	3 5.8	20.4
139635 2001 QS_{157}	15.6	X	332.21127	249.51727	178.56877	5.42696	0.0382808	0.21912919	2.7248080	20	12 17.4	19.1
139636 2001 QH_{159}	15.1	X	289.57488	229.36213	148.87138	3.73159	0.0658086	0.20476872	2.8507577	20	8 7.3	18.9
139637 2001 QA_{160}	15.4	X	114.89411	332.44498	335.12256	4.88656	0.0406680	0.22296124	2.6934968	20	—	—
139638 2001 QH_{160}	15.2	X	259.14452	182.80237	339.80685	17.34470	0.0301446	0.22251346	2.6971092	20	—	—
139639 2001 QZ_{160}	15.5	X	262.03561	93.90865	296.39483	0.96484	0.0750843	0.20269091	2.8702069	20	7 15.2	19.4
139640 2001 QZ_{162}	15.5	X	348.02614	126.43090	211.03956	5.00947	0.1148942	0.20900664	2.8120907	20	9 10.8	18.7
139641 2001 QY_{165}	15.6	X	52.71462	219.03565	93.51534	6.05950	0.0944215	0.21589097	2.7519871	20	11 15.9	19.4
139642 2001 QM_{166}	15.4	X	281.51925	342.34769	135.97997	10.04924	0.1178064	0.21916370	2.7245219	20	12 5.4	18.8
139643 2001 QL_{167}	15.1	X	304.93631	157.92251	6.72497	12.83294	0.1411874	0.23110435	2.6298479	20	—	—
139644 2001 QZ_{168}	15.6	X	104.12107	331.39633	76.36543	5.46634	0.2454311	0.23387733	2.6090193	20	3 1.1	19.2
139645 2001 QC_{170}	14.8	X	31.55932	166.51061	320.18434	8.60349	0.0612740	0.18239101	3.0794070	20	2 8.9	18.8
139646 2001 QC_{171}	15.9	X	22.57365	320.35099	8.31305	2.63423	0.0881449	0.21137946	2.7910066	20	10 23.5	19.4
139647 2001 QR_{171}	16.2	X	113.16792	106.61191	188.54807	9.03538	0.1591081	0.22361722	2.6882267	20	—	—
139648 2001 QA_{172}	15.5	X	318.10296	101.24186	180.29466	10.93370	0.1509510	0.19904219	2.9051772	20	5 1.1	19.1
139649 2001 QT_{174}	15.9	X	90.36331	161.53425	324.60836	4.18837	0.0504191	0.24424386	2.5346633	20	4 20.9	19.3
139650 2001 QF_{176}	15.8	X	311.55724	252.43813	150.96873	2.27367	0.0863250	0.21245700	2.7815616	20	10 14.0	19.1
139651 2001 QM_{176}	15.8	X	341.37644	270.18694	137.28595	1.24882	0.0901243	0.21720508	2.7408760	20	12 6.5	19.1
139652 2001 QT_{176}	16.1	X	350.82613	214.48562	170.56875	5.49516	0.0925135	0.21342055	2.7731832	20	11 21.9	19.5
139653 2001 QE_{177}	16.3	X	170.41485	68.68182	164.95243	3.00605	0.1205210	0.22002149	2.7174359	20	12 12.4	20.5
139654 2001 QP_{177}	15.7	X	10.39865	20.93864	333.10543	5.17706	0.0358158	0.21674263	2.7447734	20	11 1.4	19.3
139655 2001 QD_{183}	16.0	X	320.26600	149.93249	180.77181	1.94059	0.0706950	0.20392370	2.8586276	20	7 18.7	19.7
139656 2001 QW_{183}	15.9	X	350.37248	104.42540	261.52834	1.14732	0.1340481	0.21284010	2.7782228	20	10 28.1	18.8
139657 2001 QC_{184}	16.5	X	103.15137	76.86888	305.89650	1.79885	0.1073087	0.23146937	2.6270824	20	1 5.2	19.7
139658 2001 QY_{184}	15.7	X	34.56632	112.92279	219.61299	10.72225	0.1621533	0.21467554	2.7623646	20	11 26.8	19.4
139659 2001 QZ_{184}	15.6	X	62.81633	25.60899	243.93075	12.31867	0.2142247	0.21421654	2.7663091	20	10 16.4	19.8
139660 2001 QA_{185}	15.3	X	318.32504	158.51191	232.62337	12.90700	0.1510283	0.21106445	2.7937829	20	9 29.0	18.5
139661 2001 QK_{186}	15.7	X	91.99537	31.80064	324.72385	5.45496	0.0266361	0.22547054	2.6734753	20	—	—
139662 2001 QL_{187}	15.7	X	111.83802	312.11824	112.77882	6.53381	0.3155501	0.23603760	2.5930761	20	4 8.4	19.8
139663 2001 QX_{187}	15.5	X	355.30326	135.87102	266.23570	11.54382	0.1136820	0.21569544	2.7536500	20	12 22.6	18.7
139664 2001 QE_{189}	15.3	X	109.46744	188.49533	36.07251	5.82124	0.0122365	0.21140549	2.7907774	20	9 24.1	19.1
139665 2001 QX_{190}	15.1	X	99.43691	30.19483	297.76338	14.04133	0.0970360	0.22198772	2.7013659	20	—	—
139666 2001 QG_{192}	14.5	X	55.72574	174.07611	272.12136	12.27087	0.2152595	0.22813067	2.6526519	20	1 26.1	17.1
139667 2001 QZ_{193}	14.9	X	172.59619	133.94418	267.42584	10.96380	0.1338729	0.18775261	3.0204992	20	4 15.7	19.9
139668 2001 QB_{194}	14.8	X	139.57109	145.17112	292.87938	11.97244	0.1193645	0.24013681	2.5634817	20	4 24.4	18.9
139669 2001 QJ_{194}	14.3	X	101.66711	187.81747	264.56057	10.66576	0.1435956	0.18331306	3.0690722	20	4 6.1	18.9
139670 2001 QH_{196}	16.5	X	242.57902	2.10872	249.96055	3.18165	0.1780909	0.28898250	2.2658006	20	—	—
139671 2001 QN_{200}	16.5	X	171.81529	354.13465	221.89767	20.29248	0.0558486	0.37137496	1.9168773	20	12 29.8	19.0
139672 2001 QD_{201}	15.7	X	300.21023	207.36781	204.68503	6.90310	0.1164274	0.20900300	2.8121234	20	10 2.2	19.0
139673 2001 QS_{202}	15.7	X	83.39658	9.78609	51.49015	3.66241	0.1915887	0.23327561	2.6135039	20	2 10.5	18.8
139674 2001 QD_{203}	15.5	X	62.86742	344.79012	70.67139	4.55370	0.1625455	0.23015997	2.6370368	20	—	—
139675 2001 QS_{203}	16.0	X	116.46436	309.27001	27.47662	2.92593	0.1089845	0.22942342	2.6426778	20	—	—
139676 2001 QQ_{204}	15.2	X	237.78878	184.17388	290.28588	8.17424	0.1138859	0.21121826	2.7924264	20	9 23.3	19.3
139677 2001 QB_{205}	15.1	X	240.36867	71.18750	294.09594	7.55785	0.0915684	0.19620563	2.9331103	20	5 12.9	19.5
139678 2001 QG_{205}	16.2	X	164.63215	273.13257	292.33235	6.48999	0.0986190	0.26851054	2.3795518	20	11 9.6	19.7
139679 2001 QA_{206}	16.4	X	64.61432	56.71878	336.01765	3.76537	0.1054735	0.27877136	2.3207977	20	—	—
139680 2001 QE_{206}	15.4	X	237.01034	179.13314	161.39425	11.73529	0.1047408	0.19276937	2.9678642	20	4 12.1	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139681 2001 QR_{206}	15.8	X	320.55709	340.53476	130.78544	3.60774	0.0323559	0.22337886	2.6901386	20	—	—
139682 2001 QM_{207}	15.2	X	329.19085	234.37063	138.81510	8.98916	0.0696557	0.21047029	2.7990384	20	10 3.8	18.7
139683 2001 QG_{208}	15.9	X	104.34474	0.31827	72.90671	2.62943	0.1789511	0.23707390	2.5855140	20	3 22.9	19.3
139684 2001 QV_{208}	15.6	X	13.72231	358.35866	337.01238	4.35040	0.1646279	0.21280354	2.7785411	20	10 28.6	18.8
139685 2001 QN_{210}	15.1	X	0.15661	195.68121	170.76002	9.16058	0.1590499	0.21071100	2.7969063	20	11 19.6	18.4
139686 2001 QW_{210}	15.5	X	318.65916	5.82461	195.00101	9.29112	0.0353236	0.23609249	2.5926741	20	1 24.4	19.0
139687 2001 QY_{210}	15.2	X	346.56278	135.72314	253.72973	4.31987	0.1612772	0.21301490	2.7767027	20	11 25.3	18.2
139688 2001 QT_{212}	16.1	X	4.21240	170.59373	174.07403	3.72217	0.0915747	0.21070460	2.7969629	20	10 18.9	19.4
139689 2001 QG_{213}	16.2	X	178.24041	135.75314	208.63702	1.92751	0.1981416	0.23615327	2.5922292	20	2 14.8	20.5
139690 2001 QN_{214}	16.5	X	54.36779	138.42572	155.88362	2.39401	0.2462093	0.21396175	2.7685049	20	11 14.5	20.6
139691 2001 QT_{214}	15.3	X	215.51361	290.39877	160.32997	4.79644	0.2338522	0.19950391	2.9006930	20	7 23.1	20.1
139692 2001 QU_{214}	15.5	X	330.20712	63.97475	346.72795	8.16354	0.1520015	0.21319791	2.7751135	20	11 20.9	18.6
139693 2001 QG_{215}	15.5	X	39.98953	324.05159	357.73163	2.28111	0.0406324	0.21266276	2.7797672	20	10 31.7	19.2
139694 2001 QJ_{218}	15.4	X	198.11191	56.35362	339.03061	8.36720	0.1101143	0.19340920	2.9613151	20	5 3.3	20.1
139695 2001 QY_{218}	16.0	X	62.66226	343.13840	306.42215	2.64396	0.0688392	0.21282526	2.7783520	20	10 23.2	19.8
139696 2001 QN_{220}	15.6	X	65.39489	13.51656	321.02774	2.22068	0.1840404	0.21823795	2.7322213	20	—	—
139697 2001 QY_{222}	15.8	X	104.13126	181.74936	105.22308	4.55326	0.0433187	0.21988552	2.7185561	20	12 7.9	19.5
139698 2001 QB_{223}	15.6	X	79.88344	315.65754	106.87971	4.62804	0.1832837	0.23252897	2.6190956	20	2 4.6	18.5
139699 2001 QR_{223}	16.6	X	335.04241	278.22640	130.43753	1.91006	0.1737794	0.26858578	2.3791073	20	12 22.9	18.6
139700 2001 QX_{225}	15.0	X	285.05175	344.34680	288.61036	9.12995	0.0736872	0.18902212	3.0069598	20	3 10.8	19.5
139701 2001 QH_{226}	15.2	X	202.09703	208.60859	219.76258	7.69705	0.0565931	0.19713351	2.9238993	20	6 23.3	19.5
139702 2001 QN_{226}	14.7	X	177.51648	25.89910	333.30568	16.73548	0.1149038	0.18469416	3.0537532	20	3 2.7	19.4
139703 2001 QC_{227}	15.4	X	347.03787	317.88338	200.14453	13.53393	0.1039296	0.23336533	2.6128340	20	—	—
139704 2001 QK_{227}	15.5	X	352.05115	231.44680	206.30295	12.40549	0.1579051	0.22025024	2.7155541	20	—	—
139705 2001 QF_{228}	16.2	X	355.32064	114.70253	222.84116	8.15897	0.1703201	0.20944297	2.8081838	20	9 27.4	19.3
139706 2001 QT_{228}	15.2	X	108.77094	196.11120	262.99508	9.03234	0.0336433	0.19021714	2.9943527	20	4 8.3	19.6
139707 2001 QD_{229}	16.6	X	56.75074	94.13917	217.48383	7.04840	0.2061104	0.21563282	2.7541831	20	12 3.0	20.7
139708 2001 QX_{230}	15.1	X	44.49728	251.88275	285.54457	8.95916	0.0426402	0.19317861	2.9636712	20	4 25.5	19.2
139709 2001 QT_{231}	15.9	X	348.07183	202.16171	220.00813	8.22711	0.1276049	0.21901461	2.7257582	20	—	—
139710 2001 QU_{232}	15.5	X	166.37587	104.45898	171.09868	14.20224	0.1042487	0.22542142	2.6738637	20	—	—
139711 2001 QO_{233}	15.1	X	297.54773	95.51973	273.22766	1.09555	0.0694354	0.20305184	2.8668046	20	8 5.5	18.8
139712 2001 QB_{234}	15.6	X	114.36833	66.92423	176.12779	4.36312	0.0145872	0.21148589	2.7900701	20	10 23.1	19.4
139713 2001 QH_{235}	15.6	X	73.36628	340.47713	345.79622	8.78448	0.0765868	0.21755159	2.7379649	20	12 24.0	19.7
139714 2001 QQ_{237}	15.9	X	22.05373	156.38377	158.81035	7.56457	0.2073292	0.26279449	2.4139330	20	11 6.8	18.7
139715 2001 QF_{238}	16.0	X	182.99873	19.14598	358.26609	3.09853	0.1906886	0.23959914	2.5673153	20	3 29.3	20.3
139716 2001 QF_{240}	15.7	X	47.59518	7.06155	344.29856	4.84763	0.0715801	0.21799175	2.7342781	20	12 24.0	19.5
139717 2001 QS_{240}	16.2	X	107.36951	148.60866	173.36735	1.81032	0.0653126	0.22210166	2.7004419	20	—	—
139718 2001 QW_{240}	15.1	X	227.89603	185.71430	183.94502	7.34552	0.0505121	0.19331576	2.9622693	20	5 11.7	19.4
139719 2001 QH_{241}	16.0	X	159.34506	18.42637	4.42523	2.90354	0.1391571	0.23704805	2.5857019	20	3 13.0	19.8
139720 2001 QM_{241}	15.4	X	178.74429	142.13153	184.23869	4.67083	0.1506950	0.18104793	3.0946178	20	1 28.5	20.5
139721 2001 QA_{243}	14.9	X	212.42766	43.63594	38.15538	2.82200	0.0248898	0.19983175	2.8975197	20	7 27.3	19.0
139722 2001 QU_{244}	14.6	X	10.68356	338.17518	358.87771	5.70198	0.0560015	0.20888585	2.8131747	20	10 12.2	18.2
139723 2001 QB_{246}	15.5	X	297.62145	41.69622	1.68037	15.03455	0.1433609	0.20501807	2.8484458	20	9 14.9	18.9
139724 2001 QW_{246}	14.7	X	289.50781	112.36999	182.33426	17.48632	0.0743869	0.19023364	2.9941795	20	4 19.5	18.9
139725 2001 QE_{249}	14.2	X	238.37808	346.10528	38.08552	11.45533	0.1054167	0.19272741	2.9682949	20	6 2.3	18.7
139726 2001 QB_{250}	15.5	X	19.83552	324.05823	72.95292	6.50530	0.0790887	0.22010830	2.7167214	20	—	—
139727 2001 QD_{250}	14.7	X	5.80664	300.45284	119.57854	14.20960	0.1899335	0.21941131	2.7224717	20	—	—
139728 2001 QE_{250}	15.2	X	105.96484	174.83021	133.09540	17.81150	0.1585504	0.22189811	2.7020931	20	—	—
139729 2001 QJ_{250}	15.1	X	277.14543	346.44806	32.55855	11.02114	0.1398401	0.20191511	2.8775542	20	7 12.2	19.1
139730 2001 QY_{251}	15.4	X	337.79346	180.35321	244.88670	8.38578	0.1653249	0.22014664	2.7164060	20	12 30.7	18.2
139731 2001 QP_{254}	15.0	X	306.26926	305.96798	117.79061	13.62087	0.1577567	0.21356289	2.7719508	20	11 2.6	18.3
139732 2001 QQ_{256}	15.1	X	151.03029	312.18776	103.57987	4.31076	0.2260977	0.23842563	2.5757325	20	4 22.0	19.4
139733 2001 QG_{257}	16.0	X	5.08533	191.65675	142.13392	9.23705	0.2249265	0.20900643	2.8120926	20	10 24.8	19.0
139734 2001 QM_{258}	14.7	X	299.63671	299.97801	68.32731	4.17672	0.0815898	0.20277794	2.8693856	20	8 8.2	18.4
139735 2001 QK_{259}	14.0	X	354.04056	306.92260	290.73010	8.91820	0.0413359	0.19242662	2.9713874	20	5 3.3	18.0
139736 2001 QO_{259}	15.3	X	89.10443	341.91344	284.73398	8.03850	0.2534707	0.21463245	2.7627343	20	11 11.7	20.0
139737 2001 QU_{260}	15.2	X	20.20404	189.53244	204.67957	13.37381	0.1595571	0.21724297	2.7405573	20	—	—
139738 2001 QJ_{261}	15.0	X	17.87437	255.83632	216.58413	12.17233	0.2227388	0.22527867	2.6749931	20	—	—
139739 2001 QW_{262}	15.9	X	342.67291	36.64307	352.64968	5.61997	0.0801204	0.21236845	2.7823348	20	11 10.5	19.3
139740 2001 QB_{265}	15.2	X	190.44610	57.61998	342.59543	9.61388	0.1148166	0.19078322	2.9884266	20	5 1.1	20.0
139741 2001 QA_{266}	15.2	X	21.62877	115.05136	266.31388	13.64715	0.0450843	0.21873042	2.7281187	20	12 24.7	18.8
139742 2001 QJ_{266}	15.4	X	128.20669	89.09509	220.46904	9.07480	0.0643263	0.22722235	2.6597165	20	—	—
139743 2001 QS_{266}	15.4	X	143.29413	69.96274	247.76171	9.45177	0.0936180	0.22950535	2.6420488	20	—	—
139744 2001 QQ_{268}	15.9	X	155.74956	269.67283	130.71110	7.95027	0.2286229	0.23638232	2.5905544	20	4 8.8	20.3
139745 2001 QL_{271}	15.8	X	52.98690	219.58340	98.68480	3.63729	0.0714785	0.21757217	2.7377922	20	11 19.8	19.4
139746 2001 QK_{273}	15.1	X	133.61205	146.11350	131.66286	15.95788	0.0606032	0.22227127	2.6990680	20	12 30.7	19.2
139747 2001 QZ_{273}	15.2	X	205.76665	238.13317	355.26046	13.93488	0.0215921	0.22588192	2.6702284	20	—	—
139748 2001 QQ_{274}	15.5	X	18.68196	295.47019	79.17157	6.45412	0.0918373	0.21853848	2.7297158	20	12 18.9	18.8
139749 2001 QW_{274}	15.9	X	141.16322	256.91363	72.22213	5.17958	0.1433834	0.23027465	2.6361612	20	—	—
139750 2001 QZ_{276}	15.1	X	4.97044	16.36470	37.41360	11.35571	0.1746186	0.21914494	2.7246774	20	—	—
139751 2001 QC_{279}	16.4	X	37.32388	234.70857	111.32151	9.00546	0.2383180	0.21625928	2.7488616	20	12 27.7	20.2
139752 2001 QU_{279}	15.9	X	161.25282	245.81888	69.69611	5.35739	0.2047607	0.23116860	2.6293606	20	—	—
139753 2001 QQ_{280}	15.4	X	10.52570	349.74788	33.86584	10.75949	0.1861178	0.21511078	2.7586373	20	—	—
139754 2001 QC_{281}	15.3	X	336.93969	18.86418	36.36504	12.44619	0.1396647	0.21530350	2.7569908	20	12 10.4	18.5
139755 2001 QF_{281}	15.1	X	350.73622	37.46031	66.87610	15.21620	0.0584201	0.22492698	2.6777807	20	—	—
139756 2001 QE_{282}	14.4	X	90.43259	14.91429	281.97218	16.53944	0.2529172	0.21668517	2.7452586	20	12 20.3	19.1
139757 2001 QF_{283}	14.7	X	83.63542	60.26741	253.11765	14.08116	0.1049012	0.22077440	2.7112542	20	12 22.1	18.7
139758 2001 QR_{283}	15.7	X	14.69520	182.76219	199.60990	2.80067	0.1011448	0.21709292	2.7418200	20	12 24.3	19.2
139759 2001 QN_{284}	13.8	X	70.99368	251.12834	149.19633	27.16630	0.2367134	0.17078665	3.2173633	20	1 13.2	18.0
139760 2001 QW_{285}	15.3	X	68.75341	354.67108	74.52006	15.73784	0.0532924	0.23024368	2.6363975	20	1 10.5	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139761 2001 QA_{286}	15.1	X	114.89772	100.28404	280.94741	13.07489	0.2150473	0.23204853	2.6227094	20	1 30.3	18.9
139762 2001 QM_{287}	15.6	X	101.29713	105.83626	201.63357	5.11362	0.0588456	0.21987976	2.7186035	20	12 30.1	19.6
139763 2001 QT_{287}	16.4	X	209.15018	0.50765	280.17077	1.00678	0.1228398	0.23431213	2.6057908	20	—	—
139764 2001 QU_{287}	15.6	X	300.75134	117.65281	221.35951	2.59036	0.1180237	0.20121106	2.8842627	20	6 23.9	19.2
139765 2001 QN_{288}	15.2	X	162.50892	24.44502	246.38263	13.03766	0.2247296	0.22598437	2.6694213	20	—	—
139766 2001 QB_{290}	15.6	X	323.34577	110.84202	281.49069	2.15268	0.1019007	0.21254638	2.7807817	20	10 15.5	18.9
139767 2001 QF_{290}	15.7	X	150.55860	100.91558	324.67633	7.71118	0.2408732	0.23999065	2.5645224	20	4 29.3	20.2
139768 2001 QW_{291}	15.7	X	300.93853	300.30931	351.29403	4.15041	0.1321164	0.19575054	2.9376547	20	4 18.2	19.7
139769 2001 QG_{292}	15.1	X	44.76593	186.66435	167.27220	9.53765	0.1554320	0.21532650	2.7567945	20	—	—
139770 2001 QV_{293}	15.2	X	3.98977	11.51270	5.45526	12.99212	0.0757803	0.21474353	2.7617815	20	11 24.5	19.0
139771 2001 QB_{294}	16.1	X	92.98240	179.01894	158.48000	12.19973	0.1541641	0.22462179	2.6802057	20	—	—
139772 2001 QZ_{294}	14.6	X	219.74447	294.11909	346.58121	12.75877	0.1866549	0.18006286	3.1058939	20	1 14.7	19.9
139773 2001 QQ_{296}	15.2	X	41.17413	356.93706	16.34453	13.62426	0.2170134	0.21604172	2.7507068	20	—	—
139774 2001 QJ_{297}	15.0	X	150.31139	176.04102	217.79757	1.00540	0.1788851	0.18131185	3.0916139	20	3 23.7	19.9
139775 2001 QG_{298}	6.8	X	14.28653	208.53702	162.47958	6.48573	0.1945741	0.00398560	39.3979526	20	10 28.2	21.9
139776 2001 QS_{309}	14.9	X	153.19633	7.84957	91.98958	3.19811	0.0588261	0.19584015	2.9367584	20	6 7.9	19.3
139777 2001 QS_{317}	15.7	X	180.33925	73.46327	139.44367	5.89739	0.0129150	0.21997480	2.7178205	20	12 6.7	19.6
139778 2001 QZ_{327}	14.9	X	98.39774	7.50588	210.16765	19.18853	0.0850194	0.20506938	2.8479706	20	9 1.7	19.4
139779 2001 QR_{328}	15.0	X	9.12739	313.93589	40.94227	13.26404	0.1943576	0.21146635	2.7902420	20	11 20.2	18.2
139780 2001 QA_{329}	16.0	X	347.53909	90.71632	323.74685	8.20632	0.1487323	0.21788273	2.7351901	20	—	—
139781 2001 QG_{329}	16.3	X	86.23351	72.23128	170.95258	3.74892	0.0381169	0.20849831	2.8166595	20	9 19.7	20.0
139782 2001 QR_{329}	16.2	X	212.30732	67.70261	162.81726	4.52356	0.0298590	0.22552494	2.6730454	20	—	—
139783 2001 QW_{330}	15.4	X	328.22394	331.07643	120.40836	10.49405	0.2011966	0.21477912	2.7614765	20	—	—
139784 2001 RW	15.4	X	125.84683	128.68753	191.28251	13.26564	0.0976326	0.22600013	2.6692972	20	—	—
139785 2001 RL_{3}	15.2	X	198.26216	73.38311	201.05570	15.29422	0.2192438	0.23258551	2.6186711	20	—	—
139786 2001 RU_{3}	15.6	X	180.02892	298.84116	334.06254	9.40687	0.1559150	0.22904532	2.6455853	20	—	—
139787 2001 RY_{3}	15.5	X	331.95835	277.61982	166.20272	12.94628	0.1392002	0.21905882	2.7253914	20	—	—
139788 2001 RA_{4}	14.7	X	323.55431	97.48494	313.09344	12.55935	0.2049392	0.21343977	2.7730167	20	11 4.4	17.7
139789 2001 RK_{5}	15.4	X	350.55137	92.10074	218.69314	5.09427	0.0726811	0.20333028	2.8641868	20	8 6.6	19.1
139790 2001 RH_{6}	15.1	X	77.60898	114.98451	323.74033	10.13423	0.0687965	0.18080255	3.0974170	20	2 13.4	19.1
139791 2001 RR_{6}	15.1	X	335.47044	131.82308	178.66755	1.55049	0.0853182	0.19940029	2.9016979	20	7 13.7	18.6
139792 2001 RU_{7}	15.6	X	39.02131	323.83587	310.69489	11.72198	0.2637440	0.21115419	2.7929913	20	9 26.9	19.4
139793 2001 RX_{7}	15.5	X	251.77043	118.62755	217.11139	4.76919	0.1092880	0.19455122	2.9497151	20	4 18.3	19.9
139794 2001 RJ_{8}	15.5	X	250.42513	340.44763	335.23391	9.60804	0.0956558	0.19034315	2.9930310	20	3 22.3	20.0
139795 2001 RL_{8}	14.4	X	47.44083	169.99171	334.00758	8.65441	0.0665214	0.18620972	3.0371611	20	3 21.2	18.5
139796 2001 RN_{8}	15.6	X	255.61006	55.94058	318.12123	1.17814	0.1374622	0.19793169	2.9160334	20	6 6.9	19.9
139797 2001 RL_{10}	15.0	X	92.10985	160.74652	287.05442	21.54193	0.1093475	0.23580584	2.5947748	20	3 1.3	18.9
139798 2001 RO_{10}	17.0	X	143.97365	290.39467	186.98961	16.87820	0.1362675	0.40664275	1.8043773	20	6 29.5	19.6
139799 2001 RL_{11}	13.3	X	171.58994	295.68040	18.86017	10.94091	0.2244207	0.12418236	3.9788977	20	1 21.9	20.0
139800 2001 RV_{12}	15.5	X	260.15877	262.45034	195.78138	6.42236	0.0285205	0.21284129	2.7782125	20	10 18.8	19.0
139801 2001 RL_{14}	16.0	X	337.24948	158.77220	243.15084	3.48187	0.0642845	0.21373168	2.7704913	20	11 20.3	19.3
139802 2001 RD_{15}	15.7	X	356.53245	256.98292	190.02262	21.60426	0.0485911	0.22398847	2.6852555	20	—	—
139803 2001 RP_{15}	15.4	X	289.20928	299.50908	163.40712	5.66438	0.0208005	0.21724684	2.7405248	20	12 4.3	19.1
139804 2001 RH_{16}	16.3	X	322.77607	116.31647	214.75300	8.41075	0.1414583	0.20426716	2.8554223	20	7 14.8	19.7
139805 2001 RT_{16}	15.0	X	340.85884	78.12332	158.56541	2.82123	0.0888682	0.19073169	2.9889649	20	4 13.7	18.6
139806 2001 RB_{17}	15.6	X	136.33322	338.81258	144.66798	2.63661	0.1423667	0.24584618	2.5236381	20	6 26.3	19.4
139807 2001 RJ_{17}	14.4	X	75.51366	79.92618	21.07151	10.83746	0.0566142	0.18210893	3.0825861	20	3 11.0	18.7
139808 2001 RP_{18}	16.2	X	281.88121	87.96539	318.95618	5.44951	0.1256451	0.25980295	2.4324280	20	9 1.9	18.8
139809 2001 RC_{20}	16.0	X	349.40120	159.68703	255.40261	2.16542	0.0817895	0.21865053	2.7287832	20	12 28.1	19.1
139810 2001 RH_{21}	16.0	X	11.36385	355.09963	1.87676	4.24915	0.0920183	0.21431609	2.7654524	20	11 13.7	19.5
139811 2001 RP_{23}	16.0	X	76.40019	331.37261	359.60492	5.03736	0.1648749	0.22052223	2.7133207	20	—	—
139812 2001 RO_{24}	16.1	X	95.47843	324.26305	312.99127	1.09655	0.1763538	0.21750251	2.7383768	20	11 25.9	20.5
139813 2001 RR_{24}	15.9	X	357.16595	356.43080	342.52682	3.35597	0.1063666	0.20954321	2.8072881	20	9 29.2	19.0
139814 2001 RS_{24}	15.9	X	172.68572	255.85568	350.23827	0.82885	0.0109451	0.22167015	2.7039453	20	—	—
139815 2001 RV_{24}	15.2	X	182.02788	223.45768	347.02290	5.19624	0.0405930	0.21808863	2.7334682	20	11 30.8	19.1
139816 2001 RY_{24}	15.6	X	242.94572	123.18315	337.29076	3.74922	0.0710260	0.20926881	2.8097416	20	9 21.2	19.4
139817 2001 RK_{25}	15.2	X	119.45004	266.50299	178.50174	9.78323	0.0958880	0.18857751	3.0116843	20	4 17.2	19.6
139818 2001 RN_{26}	15.9	X	19.67863	329.14603	7.66315	3.50384	0.0996126	0.21250323	2.7811582	20	10 31.4	19.3
139819 2001 RG_{27}	15.9	X	190.04055	268.28664	108.25218	1.49308	0.2598068	0.18880328	3.0092829	20	4 6.7	21.2
139820 2001 RD_{28}	15.7	X	35.51117	25.39030	262.51933	1.21682	0.0371854	0.20873886	2.8144952	20	9 10.5	19.3
139821 2001 RM_{28}	16.3	X	29.55012	165.73440	146.97740	3.47398	0.1390090	0.21190137	2.7864219	20	10 22.1	19.7
139822 2001 RY_{28}	16.6	X	167.59479	96.62351	201.94708	1.92683	0.1230428	0.22962430	2.6411363	20	—	—
139823 2001 RA_{29}	15.8	X	266.51745	120.30777	290.64829	0.91581	0.0514743	0.20558445	2.8432118	20	8 21.2	19.5
139824 2001 RP_{30}	15.6	X	354.71675	20.44215	356.77243	3.14426	0.1008626	0.21303187	2.7765553	20	11 16.0	19.0
139825 2001 RQ_{31}	15.4	X	194.72568	156.25208	161.56508	13.64241	0.1670915	0.23923110	2.5699477	20	1 26.3	19.7
139826 2001 RJ_{32}	15.3	X	262.38700	202.67346	315.57671	13.47338	0.0868092	0.22360903	2.6882923	20	—	—
139827 2001 RV_{32}	15.6	X	27.71465	202.33476	177.92327	14.02989	0.1883096	0.21921969	2.7240580	20	—	—
139828 2001 RR_{33}	15.7	X	15.58233	187.75433	174.92134	7.38092	0.1547057	0.21586562	2.7522026	20	12 8.6	19.2
139829 2001 RG_{34}	15.1	X	300.47862	248.33976	189.98918	7.52768	0.2058663	0.21345103	2.7729192	20	11 1.5	17.8
139830 2001 RZ_{34}	15.0	X	74.30252	211.96510	172.79432	11.72525	0.1513785	0.22655950	2.6649018	20	—	—
139831 2001 RH_{35}	15.6	X	339.44487	194.90184	193.85150	4.87488	0.0439872	0.21440123	2.7647203	20	11 6.6	19.2
139832 2001 RL_{35}	15.6	X	265.77371	93.23185	286.29043	3.55664	0.2013191	0.20040026	2.8920371	20	6 17.4	19.8
139833 2001 RT_{35}	15.2	X	245.66123	71.95715	317.80405	8.55841	0.1044863	0.19942261	2.9014813	20	6 20.2	19.5
139834 2001 RD_{37}	15.7	X	53.84416	118.97650	198.68700	5.39895	0.0232463	0.21587293	2.7521404	20	11 12.9	19.4
139835 2001 RJ_{37}	16.3	X	132.49489	21.27168	272.78139	3.07819	0.0512214	0.22388097	2.6861150	20	—	—
139836 2001 RP_{38}	15.4	X	147.59709	234.13464	168.47530	12.33280	0.0788632	0.18666691	3.0321999	20	3 25.2	19.9
139837 2001 RH_{39}	15.5	X	310.56749	310.87244	169.21405	16.59726	0.1262058	0.22076197	2.7113560	20	—	—
139838 2001 RR_{39}	14.9	X	325.59029	268.00026	239.88448	11.72789	0.2117623	0.22633353	2.6666752	20	—	—
139839 2001 RO_{41}	15.8	X	44.28578	19.55161	279.62857	2.64168	0.0785378	0.21020963	2.8013517	20	10 12.7	19.5
139840 2001 RD_{43}	16.0	X	359.31480	177.95846	202.38608	14.07664	0.2068256	0.21334920	2.7738014	20	12 12.2	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139841 2001 RG_{43}	16.0	X	182.81814	60.58011	289.15475	10.09551	0.3099124	0.23792035	2.5793780	20	2 24.5	20.9
139842 2001 RV_{43}	15.1	X	253.39267	359.29759	341.77335	9.90175	0.1255221	0.19371270	2.9582213	20	4 21.1	19.6
139843 2001 RH_{44}	15.5	X	139.96955	358.42080	67.79153	5.15797	0.1549372	0.23491049	2.6013639	20	4 19.7	19.5
139844 2001 RF_{48}	15.4	X	340.50204	36.87156	358.36744	3.19249	0.0961939	0.21128164	2.7918680	20	11 16.5	18.8
139845 2001 RR_{50}	15.3	X	50.25692	342.41974	107.84844	4.18803	0.2568757	0.23050449	2.6344085	20	1 28.3	17.3
139846 2001 RC_{51}	15.8	X	284.87286	305.74164	163.02312	8.46213	0.0679629	0.21664800	2.7455725	20	12 2.2	19.4
139847 2001 RN_{53}	14.8	X	184.03666	340.10984	68.37060	7.48046	0.1759445	0.19141999	2.9817955	20	5 9.8	19.8
139848 2001 RH_{54}	15.7	X	66.06307	306.89482	22.42415	6.17031	0.0544726	0.21590217	2.7518919	20	12 15.4	19.7
139849 2001 RM_{54}	15.8	X	228.08292	193.32896	172.80758	10.32288	0.1221395	0.19191683	2.9766471	20	5 2.5	20.5
139850 2001 RX_{55}	14.9	X	217.70637	322.81581	84.90550	3.24774	0.0593626	0.19740891	2.9211793	20	6 15.1	19.1
139851 2001 RC_{57}	16.2	X	325.90910	277.53560	149.11957	4.07544	0.1623847	0.21419772	2.7664712	20	12 8.8	19.0
139852 2001 RD_{57}	15.7	X	261.99954	255.65071	139.12957	2.93038	0.0944606	0.20107127	2.8855994	20	7 17.9	19.7
139853 2001 RQ_{58}	15.5	X	38.76342	350.71715	47.32498	4.45616	0.1458646	0.22114527	2.7082221	20	—	—
139854 2001 RP_{59}	14.8	X	137.64530	20.83049	83.58325	4.95459	0.0915700	0.19223600	2.9733514	20	5 29.8	19.3
139855 2001 RK_{60}	15.8	X	350.64199	326.74079	70.52464	5.34611	0.0765616	0.21424656	2.7660508	20	12 5.0	19.2
139856 2001 RM_{60}	15.1	X	77.38588	302.56842	163.11922	16.59077	0.0894749	0.18331948	3.0690006	20	3 21.7	19.3
139857 2001 RP_{61}	15.0	X	27.70253	174.02497	358.84515	8.84414	0.0486950	0.18909208	3.0062182	20	3 30.1	19.0
139858 2001 RW_{61}	15.6	X	184.35648	28.03327	81.13686	2.91535	0.0298073	0.20125115	2.8838797	20	7 27.5	19.7
139859 2001 RR_{64}	14.7	X	80.57734	144.87022	316.92519	8.91655	0.0490561	0.18345641	3.0674733	20	3 10.5	19.1
139860 2001 RC_{65}	14.8	X	293.39785	127.21043	213.36376	13.06028	0.0473160	0.19762909	2.9190092	20	6 24.3	18.9
139861 2001 RP_{65}	15.4	X	286.52319	145.22696	253.10189	5.32995	0.0747086	0.20398533	2.8580518	20	8 26.2	19.3
139862 2001 RQ_{65}	15.3	X	322.05410	42.53007	331.18844	8.46370	0.1426644	0.20597515	2.8396152	20	9 13.0	18.4
139863 2001 RJ_{66}	14.8	X	40.26537	303.09211	248.80385	5.65019	0.0708941	0.19071771	2.9891110	20	5 14.7	18.6
139864 2001 RW_{66}	14.9	X	167.24019	12.46353	325.88045	9.11872	0.1207205	0.17927957	3.1149340	20	2 1.6	19.7
139865 2001 RN_{67}	15.7	X	337.41164	157.58054	253.07142	3.91441	0.1491520	0.21219680	2.7838350	20	12 6.5	18.8
139866 2001 RU_{67}	15.2	X	346.13110	164.90722	232.87916	4.18783	0.0658890	0.21245406	2.7815873	20	11 27.9	18.5
139867 2001 RB_{68}	15.6	X	98.60489	66.91876	248.02244	4.10107	0.1578336	0.21921501	2.7240968	20	—	—
139868 2001 RX_{69}	15.0	X	134.03479	30.26684	325.29963	4.61058	0.1415674	0.17641586	3.1485527	20	1 22.1	19.6
139869 2001 RE_{70}	16.2	X	139.95130	116.01860	266.59734	3.38375	0.1478133	0.23265983	2.6181134	20	2 21.5	20.0
139870 2001 RP_{73}	14.7	X	317.24581	355.88900	224.32535	10.73771	0.1018639	0.18384693	3.0631279	20	2 12.7	19.0
139871 2001 RM_{74}	14.4	X	207.74577	66.54051	206.69854	21.03211	0.2050288	0.17596928	3.1538775	20	—	—
139872 2001 RL_{77}	14.7	X	259.73804	330.83592	54.20352	12.21548	0.2723258	0.19476623	2.9475439	20	6 7.8	19.4
139873 2001 RD_{78}	14.6	X	238.47458	152.72411	359.84698	7.96052	0.1564253	0.21006478	2.8026394	20	11 7.1	18.6
139874 2001 RO_{78}	14.7	X	177.87519	319.68790	41.38146	17.52252	0.2377376	0.18168951	3.0873283	20	3 18.9	20.3
139875 2001 RQ_{82}	15.5	X	195.66602	295.44445	296.28864	8.41963	0.0296673	0.22248360	2.6973505	20	—	—
139876 2001 RV_{82}	15.5	X	328.33237	256.36946	200.93847	8.59812	0.1788674	0.21882324	2.7273471	20	—	—
139877 2001 RO_{83}	15.2	X	206.56967	172.05347	183.74413	10.75524	0.1249440	0.18873690	3.0099885	20	3 27.9	20.0
139878 2001 RT_{84}	15.2	X	152.15771	93.90552	337.87146	10.05074	0.0637082	0.19117765	2.9843148	20	4 28.1	19.8
139879 2001 RK_{85}	14.8	X	228.51927	330.02476	351.47463	12.20386	0.1469904	0.18800393	3.0178068	20	3 7.2	19.6
139880 2001 RL_{85}	16.4	X	243.56665	247.75440	180.12801	6.46719	0.1393743	0.25431653	2.4672869	20	8 3.8	19.8
139881 2001 RX_{85}	15.3	X	96.14789	97.40846	177.47559	12.31221	0.1290660	0.21456479	2.7633152	20	11 22.1	19.7
139882 2001 RB_{86}	15.1	X	152.10873	194.90934	181.51469	9.97612	0.1067523	0.18237566	3.0795798	20	2 27.6	19.9
139883 2001 RO_{86}	14.6	X	124.48335	237.90121	186.01703	3.11772	0.0732599	0.18423539	3.0588207	20	3 23.7	18.9
139884 2001 RB_{87}	15.2	X	343.20596	173.32903	202.79703	6.93828	0.0660724	0.20987002	2.8043730	20	10 26.0	18.7
139885 2001 RE_{87}	14.9	X	222.05193	38.72490	349.13093	9.77927	0.1029274	0.19321040	2.9633462	20	5 19.2	19.6
139886 2001 RG_{88}	15.5	X	187.68438	330.76877	99.22901	2.64767	0.2806625	0.19071188	2.9891718	20	6 5.8	20.9
139887 2001 RS_{88}	15.2	X	297.35577	253.21499	107.43943	3.07045	0.0587938	0.20071255	2.8890365	20	7 26.9	19.0
139888 2001 RC_{89}	15.0	X	293.75211	216.43645	137.30565	2.98906	0.0698172	0.19957618	2.8999927	20	7 10.4	18.6
139889 2001 RM_{91}	15.7	X	7.40244	244.46260	137.26256	5.23378	0.1576710	0.21434213	2.7652285	20	12 20.4	19.0
139890 2001 RU_{91}	15.5	X	328.23848	183.02741	161.18992	2.26914	0.0691680	0.20412683	2.8567308	20	8 19.1	18.8
139891 2001 RT_{92}	14.8	X	110.80993	157.49610	223.49512	4.35444	0.0663730	0.17579252	3.1559912	20	1 15.6	19.3
139892 2001 RK_{93}	15.5	X	283.34170	291.52115	50.99501	2.39553	0.0908101	0.19667493	2.9284425	20	6 7.5	19.5
139893 2001 RT_{93}	14.4	X	299.25204	240.49518	101.38282	3.31705	0.0893843	0.19861881	2.9093042	20	6 29.7	18.2
139894 2001 RS_{94}	15.0	X	257.25432	119.04674	284.18501	3.98808	0.0656516	0.19988849	2.8969713	20	7 26.8	19.0
139895 2001 RX_{94}	14.9	X	145.24260	37.21478	333.36339	8.73875	0.0847782	0.18027800	3.1034225	20	2 14.1	19.4
139896 2001 RA_{95}	14.5	X	301.15814	309.44580	335.91893	8.16190	0.0652958	0.19164182	2.9794941	20	4 18.2	18.7
139897 2001 RK_{95}	15.6	X	262.35991	232.70701	131.13676	3.59997	0.0826952	0.19912555	2.9043663	20	6 9.8	19.8
139898 2001 RN_{95}	16.0	X	49.24684	279.77535	136.43470	1.04567	0.1502363	0.22687042	2.6624663	20	—	—
139899 2001 RS_{95}	15.3	X	56.79255	183.80312	162.88246	3.88590	0.2020994	0.21696436	2.7429030	20	—	—
139900 2001 RP_{98}	16.4	X	160.76631	60.28609	188.98944	2.76539	0.0247625	0.21655501	2.7463585	20	12 25.5	20.3
139901 2001 RE_{99}	15.4	X	247.71854	168.54055	154.06109	2.64257	0.1001811	0.19286626	2.9668701	20	3 30.8	19.9
139902 2001 RH_{100}	15.5	X	226.02816	43.17090	122.86996	4.36452	0.0330884	0.21808897	2.7334654	20	12 1.1	19.2
139903 2001 RS_{100}	15.5	X	13.99887	277.85953	30.59445	5.58254	0.1057145	0.20876058	2.8143000	20	9 17.8	18.9
139904 2001 RV_{102}	15.6	X	74.68891	186.69737	116.42317	4.30946	0.0743122	0.21607698	2.7504075	20	11 26.9	19.6
139905 2001 RA_{104}	15.4	X	141.20439	265.43240	10.39150	14.41416	0.0886342	0.22219489	2.6996865	20	—	—
139906 2001 RZ_{104}	15.8	X	156.15012	259.33946	100.46636	4.69637	0.1757593	0.23462360	2.6034840	20	2 14.7	19.8
139907 2001 RR_{105}	15.4	X	333.68279	316.33954	163.49283	11.54330	0.1994178	0.22514406	2.6760592	20	—	—
139908 2001 RD_{107}	14.9	X	65.88610	306.09987	22.06340	7.79510	0.0936554	0.21694224	2.7430895	20	12 18.9	18.9
139909 2001 RH_{107}	15.6	X	79.31371	301.58448	25.20481	7.46662	0.0890098	0.21864685	2.7288138	20	—	—
139910 2001 RJ_{108}	16.1	X	162.39998	215.20890	32.52933	1.87148	0.0504397	0.22110895	2.7085187	20	12 25.2	20.1
139911 2001 RU_{108}	15.9	X	17.06385	38.76603	3.80051	4.92267	0.0354282	0.22093860	2.7099108	20	—	—
139912 2001 RW_{108}	16.1	X	64.38398	168.52669	145.95858	2.91181	0.0565705	0.21598770	2.7511654	20	11 26.5	20.0
139913 2001 RB_{109}	15.4	X	306.97503	304.25314	168.66613	14.37624	0.0631414	0.22036928	2.7145760	20	—	—
139914 2001 RV_{110}	16.0	X	80.96220	163.72235	142.55329	5.50201	0.1203537	0.21780229	2.7358634	20	12 12.7	20.1
139915 2001 RO_{117}	15.3	X	98.67129	234.76261	354.70748	3.67946	0.1450985	0.20959441	2.8068309	20	9 28.4	19.4
139916 2001 RB_{118}	15.2	X	335.37327	304.70160	19.04623	2.05253	0.0661525	0.20320994	2.8653174	20	8 3.2	18.7
139917 2001 RM_{118}	15.4	X	345.79326	237.06168	30.11905	2.05445	0.0457501	0.19688567	2.9263525	20	6 2.2	19.1
139918 2001 RU_{120}	15.1	X	115.73362	100.03098	6.07164	9.68983	0.0642990	0.19058528	2.9904954	20	4 30.6	19.6
139919 2001 RF_{121}	15.0	X	105.11564	65.06629	10.63556	10.08224	0.0460991	0.18492292	3.0512343	20	3 13.7	19.2
139920 2001 RQ_{122}	15.7	X	292.46922	181.37752	138.15429	3.19913	0.0749286	0.19666073	2.9285835	20	5 23.9	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
139921 2001 RR_{123}	16.1	X	331.78425	356.22022	62.71688	1.39479	0.1328821	0.21425501	2.7659780	20	12 7.4	18.9
139922 2001 RV_{123}	15.0	X	265.73964	33.28018	72.90605	1.55127	0.0248911	0.21301948	2.7766630	20	11 5.7	18.8
139923 2001 RX_{124}	15.5	X	231.54284	355.56846	25.80944	3.72370	0.1154394	0.19517136	2.9434635	20	5 22.4	19.9
139924 2001 RQ_{125}	15.1	X	167.07043	332.67227	109.92884	4.24052	0.2271608	0.19128977	2.9831486	20	6 5.8	20.3
139925 2001 RV_{126}	15.7	X	325.47650	4.52504	66.85104	5.43170	0.0861524	0.21580572	2.7527118	20	12 12.1	18.9
139926 2001 RO_{128}	15.9	X	47.67745	349.43627	91.53987	3.33433	0.0496961	0.22935961	2.6431679	20	—	—
139927 2001 RC_{129}	16.0	X	9.19095	298.67833	149.66745	5.48869	0.0701909	0.22436527	2.6822482	20	—	—
139928 2001 RL_{129}	15.8	X	110.99550	280.90229	19.46862	5.05218	0.0951166	0.22022984	2.7157217	20	—	—
139929 2001 RA_{130}	15.2	X	70.03899	357.15649	165.74630	11.65666	0.0831273	0.19215978	2.9741375	20	5 23.6	19.4
139930 2001 RB_{131}	15.2	X	214.15148	43.82731	56.82205	2.86503	0.0217685	0.20405811	2.8573721	20	8 24.4	19.1
139931 2001 RL_{131}	15.5	X	55.35677	153.03365	154.13574	7.13342	0.0449448	0.21222122	2.7836215	20	11 5.5	19.4
139932 2001 RT_{131}	14.8	X	249.42086	99.73339	160.73955	9.69430	0.0313905	0.18086950	3.0966526	20	1 24.1	19.3
139933 2001 RH_{132}	15.0	X	316.69332	210.78011	96.19970	3.29723	0.0401664	0.19751880	2.9200957	20	6 14.3	18.8
139934 2001 RT_{132}	15.2	X	4.36696	83.90305	156.01416	16.85461	0.0342316	0.19490739	2.9461205	20	5 27.9	19.5
139935 2001 RW_{133}	15.2	X	230.25582	335.11606	89.41155	3.10568	0.0532808	0.20015533	2.8943959	20	7 23.3	19.2
139936 2001 RX_{133}	15.6	X	270.10196	195.95702	153.97707	6.78466	0.0843482	0.19663465	2.9288424	20	6 2.1	19.7
139937 2001 RO_{134}	15.9	X	24.18087	317.90072	114.10606	5.16522	0.1517774	0.22271476	2.6954838	20	—	—
139938 2001 RQ_{134}	15.0	X	198.85013	318.04613	121.87378	6.07898	0.0801054	0.19717743	2.9234651	20	7 3.4	19.3
139939 2001 RX_{134}	14.9	X	152.36445	294.98371	149.61445	11.55078	0.0436793	0.19208759	2.9748827	20	5 20.7	19.4
139940 2001 RR_{135}	15.9	X	327.31948	262.84994	158.63643	9.59518	0.1592274	0.21290709	2.7776401	20	12 4.9	19.0
139941 2001 RM_{136}	15.0	X	338.57653	304.78881	84.98995	5.28358	0.1227728	0.21100831	2.7942784	20	11 9.7	18.1
139942 2001 RN_{136}	15.5	X	178.47174	274.55637	89.82632	5.21937	0.2267016	0.18527608	3.0473556	20	3 17.0	20.8
139943 2001 RQ_{136}	15.3	X	343.11099	70.28056	29.66054	12.23206	0.0359264	0.22212903	2.7002201	20	—	—
139944 2001 RZ_{136}	15.2	X	108.78784	136.66522	152.95486	10.12114	0.1328320	0.21816862	2.7328001	20	12 20.9	19.6
139945 2001 RG_{137}	16.0	X	281.42180	71.65383	22.70764	6.79905	0.1338741	0.21031373	2.8004272	20	10 27.3	19.5
139946 2001 RR_{138}	15.4	X	250.96929	180.06628	3.06863	11.70676	0.1301879	0.22336450	2.6902539	20	—	—
139947 2001 RT_{139}	15.9	X	5.17978	263.37431	135.08158	4.52117	0.1089925	0.21660006	2.7459776	20	—	—
139948 2001 RU_{140}	15.8	X	241.07194	160.36966	162.95514	10.69710	0.1779249	0.19055629	2.9907988	20	3 18.9	20.6
139949 2001 RL_{141}	15.8	X	145.84767	268.87128	86.10765	5.18739	0.1402895	0.23124253	2.6288002	20	1 26.5	19.6
139950 2001 RP_{141}	15.6	X	335.60240	11.78537	46.21457	10.09722	0.1480085	0.21312896	2.7757120	20	12 12.3	18.7
139951 2001 RA_{142}	14.4	X	149.07535	108.88739	309.10127	23.43214	0.0952387	0.18505580	3.0497734	20	3 31.6	19.6
139952 2001 RS_{142}	14.6	X	241.77782	248.17089	130.13588	15.93502	0.1141177	0.19247153	2.9709252	20	6 3.1	19.3
139953 2001 RF_{145}	14.4	X	111.49323	10.71972	29.92527	11.66439	0.0955533	0.18127778	3.0920013	20	2 18.2	19.0
139954 2001 RW_{145}	15.7	X	247.91417	181.25578	314.62715	11.95302	0.0572639	0.21560316	2.7544357	20	11 11.9	19.7
139955 2001 RY_{147}	15.3	X	60.69192	266.50727	113.13235	13.76776	0.2110709	0.22445088	2.6815661	20	—	—
139956 2001 RD_{152}	15.5	X	15.83564	348.54649	39.07741	14.41098	0.0881388	0.21662327	2.7457816	20	12 30.7	19.3
139957 2001 RG_{153}	15.5	X	167.52346	354.49727	83.84804	6.38378	0.1053653	0.24496053	2.5297172	20	5 29.4	19.3
139958 2001 RL_{153}	15.5	X	25.71620	279.04866	70.71201	7.52178	0.0633178	0.21325023	2.7746596	20	11 22.1	19.1
139959 2001 RT_{153}	15.8	X	131.04646	171.48462	282.46266	11.81645	0.2238220	0.24209013	2.5496740	20	5 18.4	20.1
139960 2001 RR_{154}	16.1	X	170.71753	240.61870	47.61986	9.71866	0.1638292	0.22781799	2.6550785	20	—	—
139961 2001 SR_{3}	16.0	X	26.34679	114.39004	241.71598	10.58964	0.1708243	0.21558623	2.7545799	20	12 16.5	19.7
139962 2001 SG_{4}	15.1	X	221.58014	152.80680	191.05669	10.79750	0.1174616	0.18953305	3.0015534	20	3 27.7	19.8
139963 2001 SD_{6}	15.9	X	341.96376	256.28387	202.13613	2.54082	0.1758479	0.22126231	2.7072670	20	—	—
139964 2001 SH_{7}	15.1	X	27.59161	347.47191	136.73710	1.76680	0.1310380	0.18135256	3.0911513	20	2 1.7	18.5
139965 2001 SN_{10}	15.9	X	102.54106	320.88466	9.87150	2.07410	0.0621193	0.22302490	2.6929843	20	—	—
139966 2001 SQ_{11}	15.6	X	259.57853	304.72385	168.23238	7.08697	0.2174027	0.21055306	2.7983047	20	10 9.5	19.2
139967 2001 SF_{12}	15.9	X	93.54809	83.06383	210.20720	8.59193	0.1209901	0.21865988	2.7287054	20	12 9.8	20.1
139968 2001 SQ_{12}	16.0	X	218.71486	188.52358	175.34970	13.57089	0.1887276	0.19159549	2.9799743	20	4 16.9	21.0
139969 2001 SB_{13}	15.6	X	300.64283	273.52254	169.08599	5.09760	0.1379481	0.21261146	2.7802143	20	11 14.7	18.7
139970 2001 SM_{13}	15.4	X	36.74913	19.68738	358.66894	4.78077	0.1228466	0.21868039	2.7285347	20	—	—
139971 2001 SM_{14}	15.2	X	272.85412	59.26166	166.47642	1.98794	0.1132732	0.17993150	3.1074054	20	1 1.5	20.0
139972 2001 SQ_{15}	15.8	X	43.13970	193.73370	135.35895	2.66053	0.2314794	0.21456310	2.7633296	20	12 12.4	19.7
139973 2001 SR_{15}	15.0	X	12.18805	359.89845	12.51621	7.79474	0.1411227	0.21412376	2.7671082	20	12 11.9	18.5
139974 2001 SU_{16}	15.2	X	274.73839	305.73697	41.35843	2.33476	0.0485970	0.19655061	2.9296773	20	6 8.4	19.3
139975 2001 SH_{18}	15.3	X	7.67702	331.28745	21.93117	6.33883	0.0739856	0.21093824	2.7948972	20	10 31.7	18.8
139976 2001 SX_{18}	15.0	X	174.03051	44.40073	13.82808	9.01005	0.0952817	0.19042786	2.9921434	20	5 8.2	19.7
139977 2001 SP_{19}	15.7	X	269.83043	237.42072	167.22539	2.32518	0.0765605	0.20292532	2.8679961	20	8 13.1	19.5
139978 2001 SO_{20}	16.0	X	17.65114	310.03345	51.05179	2.06622	0.1476451	0.21240975	2.7819741	20	12 6.5	19.5
139979 2001 SH_{23}	16.2	X	291.15017	42.22932	5.85287	1.68615	0.0685133	0.20658942	2.8339836	20	9 19.1	19.6
139980 2001 SS_{23}	15.4	X	208.77550	0.49818	21.59624	1.70537	0.1126719	0.19108390	2.9852908	20	4 30.6	20.2
139981 2001 ST_{25}	15.5	X	231.99955	148.84322	180.04799	9.83446	0.1027146	0.18806433	3.0171606	20	3 21.4	20.2
139982 2001 SM_{26}	15.5	X	330.75344	352.96406	10.33086	5.93291	0.2144780	0.20624603	2.8371283	20	9 15.8	18.1
139983 2001 SA_{28}	15.5	X	194.61635	285.06844	153.03428	2.50414	0.1692938	0.19377576	2.9575794	20	6 23.2	20.3
139984 2001 SQ_{28}	16.3	X	90.30170	288.70120	160.57681	4.10265	0.1453466	0.23374535	2.6100013	20	3 20.4	19.6
139985 2001 SS_{29}	15.3	X	40.39987	274.12153	16.81195	5.08704	0.0828321	0.20688409	2.8312920	20	9 28.7	18.8
139986 2001 SE_{31}	15.6	X	322.15595	272.64825	75.29191	3.06174	0.0832679	0.20253005	2.8717265	20	8 15.1	19.1
139987 2001 SJ_{32}	15.7	X	237.91233	25.39053	51.35466	1.44982	0.1395481	0.20020610	2.8939066	20	8 6.7	20.0
139988 2001 SR_{32}	15.5	X	228.85140	279.47186	184.61475	14.72149	0.1112254	0.20332081	2.8642757	20	9 1.3	19.8
139989 2001 SJ_{33}	15.6	X	273.28630	134.48685	183.58495	9.58786	0.1728864	0.19314401	2.9640252	20	4 14.2	19.9
139990 2001 SS_{33}	15.9	X	295.22266	88.23206	17.28487	5.21959	0.0256781	0.21471686	2.7620102	20	12 13.1	19.6
139991 2001 SU_{35}	15.2	X	188.67067	20.29986	26.42428	11.13951	0.0744691	0.19016487	2.9949013	20	5 9.4	19.9
139992 2001 SD_{36}	15.0	X	96.30709	356.04790	27.52136	9.15046	0.1116931	0.17390222	3.1788202	20	1 10.0	19.5
139993 2001 SN_{36}	15.9	X	140.31779	160.45598	168.45946	3.26198	0.1134073	0.22626976	2.6671762	20	—	—
139994 2001 SQ_{36}	15.0	X	80.94261	86.75008	23.50035	3.31652	0.1908232	0.18075137	3.0980017	20	4 14.4	19.1
139995 2001 ST_{36}	15.0	X	171.45765	358.59730	19.79074	10.50963	0.0660940	0.18409979	3.0603225	20	3 21.8	19.7
139996 2001 SC_{37}	16.3	X	127.14763	28.37162	36.62930	3.22620	0.1331478	0.23565888	2.5958535	20	4 1.3	19.9
139997 2001 SO_{38}	15.9	X	91.87354	247.25815	38.30573	4.34969	0.0708147	0.21252929	2.7809308	20	11 22.4	19.9
139998 2001 SK_{39}	14.6	X	140.67061	7.72230	29.39462	13.42471	0.1936559	0.18127988	3.0919774	20	3 24.4	19.6
139999 2001 SY_{40}	15.4	X	265.08440	299.22836	80.93578	3.02532	0.1076328	0.19709601	2.9242702	20	6 30.7	19.3
140000 2001 SN_{41}	15.4	X	232.64459	170.63672	234.08365	1.65328	0.0380864	0.19752616	2.9200232	20	7 1.5	19.4