Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56001 1998 SR_{146}	15.5	X	289.27228	17.68482	16.63426	5.51544	0.1757180	0.29561403	2.2317867	21	8 8.9	17.7
56002 1998 SJ_{147}	15.9	X	48.74083	262.57495	171.36270	3.73915	0.1543891	0.27026940	2.3692167	21	—	—
56003 1998 SB_{156}	16.6	X	135.08020	19.58381	44.27966	2.85884	0.2068527	0.28040835	2.3117565	21	4 3.8	19.9
56004 1998 SO_{161}	16.3	X	281.15688	33.32115	24.71259	7.69522	0.1059939	0.29755202	2.2220856	21	9 14.6	18.5
56005 1998 SK_{169}	14.8	X	353.46196	200.09600	153.32418	10.03333	0.1667887	0.21366312	2.7710839	21	10 8.7	17.7
56006 1998 TJ_{13}	15.2	X	338.80119	341.99918	40.99768	3.29507	0.1222810	0.29998684	2.2100457	21	11 5.9	16.8
56007 1998 TP_{14}	16.4	X	247.94295	101.17921	37.32833	1.09070	0.0438137	0.30412628	2.1899461	21	11 28.5	18.8
56008 1998 TL_{20}	16.5	X	230.79428	62.33533	27.97586	6.47453	0.1031845	0.29397037	2.2400979	21	8 19.9	19.4
56009 1998 TZ_{33}	16.3	X	159.12621	326.82158	86.77274	3.70824	0.2094286	0.28132860	2.3067124	21	4 15.1	20.0
56010 1998 UJ_{8}	15.4	X	212.00174	211.08481	202.60656	3.73603	0.1549160	0.28672772	2.2776637	21	6 1.2	18.8
56011 1998 UJ_{16}	14.7	X	185.07216	330.30208	101.41578	6.13884	0.1591885	0.28047160	2.3114090	21	5 30.2	18.2
56012 1998 UE_{19}	15.9	X	288.01908	256.64847	160.54948	3.50472	0.1489175	0.29682311	2.2257219	21	9 14.9	17.7
56013 1998 UB_{21}	15.1	X	96.29479	259.48377	227.20837	21.58203	0.2700576	0.27866470	2.3213898	21	5 22.6	18.1
56014 1998 UO_{25}	16.4	X	149.70768	263.77861	149.10482	3.48827	0.1735225	0.28013110	2.3132816	21	4 1.6	19.7
56015 1998 UH_{26}	16.0	X	183.51517	352.75778	143.95129	4.49386	0.0688972	0.29343895	2.2428017	21	8 26.9	18.8
56016 1998 UO_{36}	15.9	X	319.62915	29.49670	0.87757	6.00846	0.1493232	0.29903023	2.2147565	21	10 5.9	17.4
56017 1998 VC_{4}	15.9	X	33.51352	256.64414	156.92716	1.58770	0.1804092	0.26462225	2.4028047	21	—	—
56018 1998 VH_{4}	16.0	X	68.95276	95.31398	38.64705	3.76795	0.1583362	0.27772809	2.3266060	21	4 1.5	18.1
56019 1998 VS_{4}	16.1	X	88.07924	173.69951	150.15690	5.62307	0.1785649	0.30750938	2.1738545	21	—	—
56020 1998 VW_{10}	16.4	X	172.57528	65.22039	12.80881	0.97917	0.1780144	0.28539311	2.2847590	21	5 25.7	20.0
56021 1998 VD_{16}	16.1	X	125.49812	341.04498	65.13213	7.10788	0.1796543	0.27674494	2.3321130	21	2 28.3	19.2
56022 1998 VL_{23}	15.8	X	130.55812	186.02011	223.80552	3.41122	0.2148513	0.27726984	2.3291688	21	3 10.5	19.0
56023 1998 VX_{28}	15.6	X	269.54000	112.35779	268.31678	5.77905	0.1289024	0.29072259	2.2567504	21	6 24.2	18.4
56024 1998 VA_{30}	15.5	X	10.05237	25.59007	43.61585	6.18896	0.1705606	0.26370056	2.4084004	21	—	—
56025 1998 VW_{30}	15.8	X	286.67114	8.61818	0.16207	1.70271	0.1266877	0.29133136	2.2536055	21	7 2.3	18.3
56026 1998 VN_{52}	14.5	X	43.61475	240.33595	151.55381	7.62064	0.1710601	0.26439585	2.4041762	21	—	—
56027 1998 WG_{1}	15.2	X	164.57738	218.14371	203.44764	25.07954	0.2415543	0.28151906	2.3056719	21	5 1.4	19.1
56028 1998 WA_{14}	15.7	X	70.99193	95.10023	17.59407	0.43381	0.1980839	0.27477238	2.3432610	21	3 9.4	17.5
56029 1998 WZ_{15}	15.7	X	77.75557	337.89715	135.81807	3.06108	0.1708174	0.27586978	2.3370426	21	3 20.4	17.8
56030 1998 WH_{16}	16.0	X	150.91397	12.14256	71.96090	6.71762	0.0732586	0.28243340	2.3006931	21	5 5.3	19.1
56031 1998 WO_{18}	15.1	X	186.57969	322.42247	32.69402	5.13080	0.2401228	0.27871291	2.3211221	21	2 27.1	18.9
56032 1998 WX_{18}	16.0	X	270.07341	6.44613	60.27210	6.25051	0.0866992	0.29457215	2.2370460	21	9 13.5	18.5
56033 1998 WF_{19}	15.5	X	153.75218	203.88193	291.21023	5.06751	0.1087698	0.28761081	2.2729990	21	7 19.9	18.6
56034 1998 WS_{19}	14.5	X	130.56842	75.02002	14.17095	11.76507	0.2495320	0.23143577	2.6273367	21	5 5.7	18.9
56035 1998 WV_{20}	15.4	X	263.69732	85.45436	88.18336	2.58116	0.0599679	0.30697192	2.1763911	21	—	—
56036 1998 WH_{31}	15.1	X	243.85793	232.65552	125.35595	24.85165	0.2307069	0.28504591	2.2866139	21	4 25.6	19.4
56037 1998 WF_{32}	15.8	X	250.62577	127.26762	251.23418	6.10006	0.1403981	0.28795949	2.2711637	21	5 26.4	18.7
56038 1998 XC_{3}	15.3	X	204.21899	22.89148	57.70605	4.23358	0.1997140	0.24339456	2.5405562	21	6 27.8	19.4
56039 1998 XO_{3}	15.2	X	133.30885	108.79972	267.14117	7.66124	0.2356476	0.27304859	2.3531128	21	1 31.0	18.5
56040 1998 XP_{3}	16.3	X	122.28041	48.10956	358.06764	2.65578	0.1552801	0.27385450	2.3484941	21	2 17.9	19.1
56041 Luciendumont	15.2	X	232.91801	358.38230	13.69969	7.66263	0.2168546	0.28360748	2.2943391	21	4 22.6	19.0
56042 1998 XW_{10}	14.3	X	309.04371	6.57114	307.74644	6.43112	0.1300794	0.27956901	2.3163812	21	5 13.7	17.1
56043 1998 XQ_{11}	15.4	X	4.72060	51.81550	260.02348	5.64054	0.2118045	0.29268048	2.2466748	21	9 9.2	17.0
56044 1998 XU_{17}	15.5	X	58.55986	270.73285	139.85833	3.14451	0.1718156	0.26442289	2.4040123	21	—	—
56045 1998 XD_{21}	14.8	X	177.95974	177.42235	117.07979	3.29456	0.1187378	0.30687076	2.1768694	21	—	—
56046 1998 XC_{26}	14.3	X	294.11661	139.13853	340.88663	11.99985	0.1194826	0.25346210	2.4728287	21	12 24.4	17.1
56047 1998 XK_{36}	16.1	X	199.14198	117.89682	317.91744	1.30008	0.0386822	0.28580851	2.2825446	21	6 21.4	19.0
56048 1998 XV_{39}	15.2	X	358.23303	117.10815	17.38284	7.98468	0.0788154	0.26712570	2.3877688	21	—	—
56049 1998 XA_{44}	14.9	X	215.11446	350.57968	45.07246	4.53934	0.2517446	0.24106704	2.5568828	21	5 9.6	19.3
56050 1998 XG_{45}	15.3	X	30.47039	193.29278	330.49042	4.11409	0.1680979	0.27261818	2.3555889	21	2 25.3	16.8
56051 1998 XF_{50}	15.3	X	250.44432	167.60674	15.68999	3.21832	0.1232654	0.25780643	2.4449701	21	—	—
56052 1998 XN_{50}	15.2	X	258.39161	275.81424	94.69750	4.92141	0.1826474	0.28570465	2.2830977	21	5 20.7	18.4
56053 1998 XG_{52}	16.0	X	96.78315	62.85632	23.12797	4.43889	0.1394442	0.27307668	2.3529515	21	3 7.3	18.5
56054 1998 XR_{52}	15.6	X	67.67861	49.48431	83.81240	6.47253	0.1231723	0.27384599	2.3485427	21	3 27.6	18.0
56055 1998 XB_{54}	15.0	X	47.49579	104.00258	33.58716	6.77406	0.0697212	0.27242100	2.3567255	21	2 21.7	17.6
56056 1998 XP_{58}	14.6	X	95.97547	55.23942	98.30123	6.03284	0.1709820	0.28000207	2.3139922	21	6 14.2	17.6
56057 1998 XZ_{59}	15.8	X	201.21576	300.08754	96.11091	3.47852	0.1593022	0.28215017	2.3022324	21	4 29.4	19.3
56058 1998 XL_{62}	14.8	X	199.96076	122.80096	10.27036	21.18050	0.1173909	0.29119452	2.2543114	21	9 13.9	18.1
56059 1998 XE_{64}	15.3	X	202.83374	52.89988	5.41921	4.28140	0.1372126	0.28571877	2.2830225	21	5 28.2	18.7
56060 1998 XT_{70}	15.4	X	132.76859	90.27119	59.60938	6.60761	0.1364059	0.28474311	2.2882347	21	7 20.1	18.7
56061 1998 XY_{90}	15.6	X	13.69713	340.93929	122.79782	9.05742	0.1793130	0.26546379	2.3977240	21	—	—
56062 1998 XD_{91}	15.0	X	177.32450	270.83136	168.41714	4.11010	0.2361010	0.23943367	2.5684980	21	6 3.9	19.5
56063 1998 XM_{93}	14.0	X	271.86781	76.85744	134.25769	8.40320	0.1647128	0.26323154	2.4112603	21	—	—
56064 1998 XW_{93}	15.3	X	141.89060	215.40392	209.58176	6.86626	0.1605081	0.27695219	2.3309494	21	4 6.2	18.4
56065 1998 XB_{97}	16.1	X	348.98021	176.48343	298.18038	5.45373	0.0776474	0.26113238	2.4241653	21	—	—
56066 1998 YA	15.4	X	54.98490	132.72559	277.00484	0.57226	0.1690021	0.26408376	2.4060700	21	—	—
56067 1998 YH_{2}	14.1	X	8.86742	307.89187	310.06309	12.61549	0.1404837	0.23424731	2.6062714	21	6 14.9	17.0
56068 1998 YQ_{2}	15.4	X	63.96573	301.01647	93.89878	3.25416	0.2169522	0.26234140	2.4167116	21	—	—
56069 1998 YL_{5}	15.4	X	184.25074	77.25964	69.65140	6.62712	0.1441479	0.29169104	2.2517525	21	9 10.8	18.8
56070 1998 YQ_{5}	14.9	X	173.94690	131.29632	311.66015	2.56975	0.1124716	0.28126045	2.3070850	21	5 31.5	18.2
56071 1998 YF_{6}	15.0	X	213.06195	318.93456	151.41428	25.13839	0.2139781	0.28997641	2.2606202	21	8 12.7	18.7
56072 1998 YK_{8}	15.1	X	79.67958	79.62258	129.61660	5.40471	0.1348634	0.28165380	2.3049365	21	8 5.8	17.7
56073 1998 YO_{10}	15.9	X	164.34615	330.99566	84.89787	3.12925	0.2119232	0.27939303	2.3173538	21	4 22.6	19.6
56074 1998 YG_{18}	15.9	X	9.09356	307.46382	171.01092	2.63108	0.1486998	0.26786434	2.3833772	21	—	—
56075 1998 YV_{21}	13.9	X	325.89221	280.99229	296.95548	12.09808	0.1241797	0.22521385	2.6755063	21	2 3.1	17.5
56076 1998 YV_{29}	14.5	X	138.03826	136.77980	10.50281	12.62660	0.1152270	0.23775336	2.5805856	21	7 22.7	18.6
56077 1998 YD_{32}	14.8	X	354.85847	337.34820	111.41700	26.00328	0.2438713	0.25940465	2.4349173	21	—	—
56078 1999 AT	15.3	X	204.56998	16.25468	75.88618	5.73087	0.1573061	0.24198736	2.5503959	21	7 15.2	19.2
56079 1999 AS_{2}	14.2	X	102.79155	209.03868	346.45664	14.94047	0.0361902	0.23823103	2.5771350	21	8 5.8	17.8
56080 1999 AN_{3}	14.8	X	195.58865	101.67332	308.83641	3.33937	0.1503977	0.28006755	2.3136315	21	5 10.3	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56081 1999 AU_8	15.3	X	236.36267	21.69096	266.44624	6.52029	0.0578724	0.26899962	2.3766667	21	1 17.3	18.5
56082 1999 AK_9	16.2	X	43.27442	306.25344	153.31381	2.47994	0.1841965	0.26721558	2.3872333	21	—	—
56083 1999 AQ_{16}	15.6	X	182.09005	68.06154	192.42065	2.21514	0.1635789	0.25713092	2.4492503	21	—	—
56084 1999 AN_{19}	15.2	X	297.38939	182.89522	133.80979	7.31434	0.1678978	0.27779739	2.3262191	21	4 29.0	18.1
56085 1999 AV_{19}	15.4	X	85.10532	48.01175	323.12386	3.19146	0.2305756	0.26125244	2.4234226	21	—	—
56086 1999 AA_{21}	13.3	X	61.87789	35.09808	333.09980	23.71513	0.2066780	0.25907689	2.4369705	21	—	—
56087 1999 AH_{22}	15.4	X	34.59616	211.19480	179.84474	2.23902	0.2233094	0.26001347	2.4311149	21	—	—
56088 Wuheng	14.0	X	116.92363	83.25582	42.75864	13.27214	0.1564088	0.23270035	2.6178094	21	5 30.3	17.9
56089 1999 AY_{25}	15.9	X	316.95960	298.34652	218.48805	1.33939	0.1621463	0.26152702	2.4217260	21	—	—
56090 1999 BE	14.8	X	305.51994	209.98515	103.95939	7.82064	0.1330756	0.27975888	2.3153330	21	5 12.2	17.5
56091 1999 BJ	15.1	X	291.59251	119.15963	353.38744	3.29891	0.1331585	0.25395001	2.4696603	21	12 6.6	17.6
56092 1999 BK	14.8	X	179.51682	111.11409	312.22911	28.11683	0.2368674	0.23646817	2.5899274	21	5 7.6	19.9
56093 1999 BM_5	15.1	X	206.07665	263.65943	104.06454	1.36491	0.2238745	0.27620138	2.3351717	21	3 28.3	18.9
56094 1999 BW_5	15.4	X	349.13896	163.43925	308.85086	5.49139	0.0787804	0.26008710	2.4306560	21	—	—
56095 1999 BL_6	14.3	X	333.05491	341.35954	158.02594	9.66106	0.0955253	0.21377092	2.7701522	21	—	—
56096 1999 BA_9	14.3	X	91.78175	300.93852	319.67115	12.71434	0.1397357	0.24441546	2.5334768	21	10 19.7	18.3
56097 1999 BC_{12}	15.0	X	20.30179	79.66863	99.46792	6.94217	0.0735221	0.27123979	2.3635626	21	3 8.6	17.6
56098 1999 BE_{13}	15.4	X	224.47504	120.01246	282.75397	2.69910	0.1517798	0.23791945	2.5793845	21	5 31.5	19.4
56099 1999 BL_{13}	14.4	X	222.77713	249.06500	163.31980	14.58633	0.1057326	0.23517668	2.5994006	21	6 16.0	18.6
56100 Luisapolli	14.9	X	346.48666	100.43912	70.54319	3.98182	0.1308538	0.26685082	2.3894082	21	—	—
56101 1999 BW_{14}	15.9	X	265.40475	232.89177	339.47719	1.59581	0.1416725	0.26070899	2.4267891	21	—	—
56102 1999 BD_{15}	15.7	X	7.92551	312.80640	201.71529	1.98829	0.1324846	0.26687757	2.3892486	21	1 2.4	18.2
56103 1999 BU_{19}	14.2	X	98.10501	49.16253	312.07480	9.03051	0.1106899	0.21971923	2.7199276	21	—	—
56104 1999 BA_{20}	15.0	X	352.09378	45.20911	45.44709	5.98642	0.1793059	0.26078550	2.4263145	21	—	—
56105 1999 BB_{20}	15.0	X	285.67676	125.71803	29.79358	7.03771	0.0597761	0.25935878	2.4352044	21	—	—
56106 1999 BG_{24}	14.8	X	184.64882	148.13092	290.99867	6.41194	0.1519057	0.28276567	2.2988904	21	6 7.4	18.3
56107 1999 BT_{25}	15.0	X	132.14226	195.92000	231.10508	3.63513	0.2077992	0.27506684	2.3415884	21	4 3.5	18.4
56108 1999 BN_{26}	14.9	X	333.95280	99.46339	315.88370	6.98899	0.0546231	0.25285745	2.4767692	21	11 29.2	17.9
56109 1999 BB_{32}	15.9	X	59.62883	75.84635	314.02510	5.80204	0.1749220	0.26194089	2.4191744	21	—	—
56110 1999 CO_1	15.7	X	297.36271	145.76199	356.35955	8.11464	0.1724522	0.25610869	2.4557633	21	—	—
56111 1999 CO_2	13.8	X	39.37406	43.91239	104.41515	22.57747	0.0313381	0.22387079	2.6861964	21	3 9.1	17.7
56112 1999 CK_5	14.4	X	182.03281	274.93837	11.29425	12.68548	0.2019716	0.25757659	2.4464243	21	—	—
56113 1999 CQ_5	14.7	X	19.60552	87.61050	21.59900	6.61617	0.1238554	0.26166284	2.4208879	21	—	—
56114 1999 CA_6	14.6	X	19.48277	50.31873	124.56341	24.56281	0.2218778	0.26959644	2.3731578	21	2 17.1	16.4
56115 1999 CN_7	14.5	X	89.37026	323.07380	146.62784	29.99124	0.1798702	0.22770044	2.6559922	21	4 18.0	18.6
56116 1999 CZ_7	13.7	X	37.17192	263.32568	345.55527	21.33143	0.2821478	0.27882987	2.3204730	21	8 28.3	15.8
56117 1999 CC_9	13.8	X	19.36244	100.00434	208.23449	12.98560	0.1805408	0.23807871	2.5782341	21	9 23.4	16.5
56118 1999 CF_{14}	14.8	X	106.77437	50.57538	175.49203	18.97531	0.2024660	0.23735964	2.5834386	21	10 4.6	18.9
56119 1999 CZ_{18}	14.5	X	259.81118	45.04928	358.46436	7.83220	0.2462762	0.24473792	2.5312509	21	6 28.9	18.4
56120 1999 CL_{19}	15.2	X	3.49114	112.34078	113.06540	7.86328	0.0630209	0.27499982	2.3419688	21	4 18.3	17.8
56121 1999 CB_{20}	14.8	X	95.00358	103.79626	108.19643	11.68232	0.0748053	0.24024335	2.5627238	21	8 21.7	18.4
56122 1999 CS_{20}	14.9	X	245.49764	245.34100	354.99051	6.05964	0.0967136	0.26182736	2.4198737	21	—	—
56123 1999 CR_{23}	15.0	X	217.29851	315.78365	326.72355	6.22796	0.1242698	0.26330223	2.4108287	21	—	—
56124 1999 CH_{24}	14.8	X	266.86454	315.23646	126.03728	16.09638	0.1128571	0.20277059	2.8694549	21	9 16.9	18.9
56125 1999 CC_{25}	15.4	X	1.08927	150.69556	61.20490	6.07417	0.2060538	0.27065370	2.3669735	21	3 8.9	17.4
56126 1999 CT_{31}	15.1	X	281.16332	241.36929	50.66112	5.86024	0.0451518	0.27283878	2.3543190	21	3 22.7	18.1
56127 1999 CC_{34}	15.5	X	134.95713	231.98898	138.66290	2.91319	0.1007404	0.26511583	2.3998215	21	1 10.8	18.5
56128 1999 CX_{37}	15.0	X	122.76083	178.26428	328.67617	3.27718	0.0584199	0.23530064	2.5984876	21	6 24.5	18.7
56129 1999 CH_{43}	14.9	X	178.62086	61.36291	347.24555	10.01300	0.0802924	0.23088910	2.6314821	21	4 19.3	18.9
56130 1999 CM_{45}	14.8	X	47.00778	10.94362	26.97449	3.42080	0.1747030	0.25849944	2.4405983	21	—	—
56131 1999 CY_{48}	14.2	X	128.71336	310.23052	112.54359	5.89656	0.0929119	0.27046074	2.3680992	21	3 13.9	17.3
56132 1999 CO_{49}	13.8	X	1.31927	263.21435	19.03006	11.39966	0.1749970	0.23457736	2.6038262	21	7 9.3	16.4
56133 1999 CX_{51}	15.3	X	200.69848	72.28174	353.92866	13.90024	0.1076311	0.23580195	2.5948034	21	6 6.7	19.5
56134 1999 CJ_{53}	14.9	X	58.49071	31.58101	67.25159	5.35671	0.1065534	0.22160941	2.7044394	21	1 29.4	18.0
56135 1999 CJ_{55}	15.7	X	162.50677	72.58688	61.75456	4.97959	0.1639657	0.23814144	2.5777813	21	7 30.3	19.9
56136 1999 CK_{55}	14.9	X	210.48421	221.39721	60.09766	5.89483	0.0531300	0.26060250	2.4274502	21	—	—
56137 1999 CW_{55}	13.9	X	349.70816	111.20595	49.22307	9.97642	0.0429946	0.26357266	2.4091794	21	—	—
56138 1999 CY_{56}	14.6	X	137.48231	95.41208	346.09778	7.77782	0.1661426	0.23000240	2.6382410	21	4 25.0	18.8
56139 1999 CV_{58}	15.3	X	31.05838	159.08973	5.56720	13.04057	0.1227053	0.22468176	2.6797288	21	3 14.4	18.2
56140 1999 CN_{62}	14.9	X	116.68743	274.85281	144.97864	5.44807	0.0464262	0.26959116	2.3731887	21	2 11.9	17.8
56141 1999 CR_{76}	14.7	X	1.56389	64.37188	180.75180	5.14522	0.0443206	0.23139648	2.6276341	21	5 16.0	17.9
56142 1999 CZ_{77}	14.3	X	353.90898	177.53141	253.86346	7.27618	0.2036277	0.21235870	2.7824199	21	—	—
56143 1999 CO_{82}	14.6	X	302.49393	117.65274	72.41634	12.16128	0.1385923	0.26334909	2.4105427	21	—	—
56144 1999 CB_{83}	14.3	X	226.96820	164.85200	31.65775	8.60454	0.0382372	0.25634177	2.4542745	21	—	—
56145 1999 CN_{84}	15.1	X	79.05494	132.10921	6.25331	5.00786	0.1402105	0.27455329	2.3445075	21	4 21.0	17.6
56146 1999 CR_{85}	14.8	X	6.51507	11.10522	89.55114	7.93659	0.1482530	0.26228197	2.4170767	21	—	—
56147 1999 CV_{85}	15.4	X	354.22592	103.08507	76.45642	3.37862	0.1326191	0.26778388	2.3838546	21	1 15.6	18.1
56148 1999 CP_{93}	15.4	X	337.20060	277.60406	147.08377	5.70114	0.1633793	0.25390366	2.4699609	21	12 26.5	17.7
56149 1999 CP_{98}	15.2	X	163.96438	304.33523	138.95505	13.94407	0.1922055	0.23419061	2.6066921	21	5 30.4	19.7
56150 1999 CT_{103}	15.1	X	286.98812	293.45026	236.61069	3.19002	0.1917469	0.25815175	2.4427893	21	—	—
56151 1999 CX_{104}	14.7	X	209.79344	272.41452	155.31596	12.32254	0.2417953	0.24006693	2.5639792	21	6 15.8	19.3
56152 1999 CK_{106}	14.4	X	305.64807	112.08486	283.62337	11.37293	0.1750015	0.24716223	2.5146718	21	8 28.4	17.2
56153 1999 CT_{114}	14.9	X	303.57651	48.31772	284.49064	4.42346	0.1624209	0.23550242	2.5970031	21	5 31.4	18.1
56154 1999 CU_{119}	13.8	X	43.76867	227.88945	43.20548	13.52974	0.1298390	0.23991845	2.5650369	21	9 14.6	17.1
56155 1999 CY_{119}	14.4	X	291.25866	215.38566	28.06906	12.33512	0.1367638	0.26662761	2.3907416	21	1 19.8	18.0
56156 1999 CG_{123}	15.3	X	62.48207	2.94509	37.99581	12.47790	0.1459074	0.26191960	2.4193055	21	—	—
56157 1999 CG_{135}	14.8	X	16.97242	148.99947	308.94631	1.77222	0.1497022	0.26065172	2.4271446	21	—	—
56158 1999 CG_{138}	15.5	X	83.45055	301.44035	320.67143	2.93471	0.2077056	0.23975062	2.5662338	21	10 24.9	19.3
56159 1999 CK_{147}	14.8	X	9.39039	294.31252	344.69236	11.87951	0.1280892	0.23367654	2.6105137	21	7 21.6	17.7
56160 1999 CY_{150}	14.2	X	207.43424	59.58445	339.86072	8.32700	0.1002458	0.23198056	2.6232216	21	5 9.5	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56161 1999 CG_{158}	14.7	X	65.52697	284.11528	312.52052	23.29892	0.2596690	0.23564631	2.5959458	21	8 31.7	18.5
56162 1999 DX_{2}	14.2	X	135.46857	260.85334	152.83907	22.06954	0.0308556	0.22568034	2.6718181	21	3 7.2	17.8
56163 1999 DE_{3}	15.9	X	135.75098	199.22507	345.89563	0.66108	0.0589163	0.23788640	2.5796234	21	8 31.2	19.5
56164 1999 DW_{7}	14.5	X	352.70452	249.71976	359.02063	14.25881	0.0675815	0.22871392	2.6481403	21	4 29.0	17.9
56165 1999 EZ_{2}	15.0	X	24.99920	239.82844	354.94572	10.10057	0.2320687	0.22862324	2.6488404	21	6 21.7	17.5
56166 1999 ER_{6}	16.0	X	180.51265	231.81892	185.39506	3.94527	0.2070478	0.23196710	2.6233231	21	5 10.3	20.4
56167 1999 EU_{11}	14.9	X	357.48796	245.01577	21.12859	25.59997	0.1455885	0.23226184	2.6211034	21	5 23.9	18.2
56168 1999 FS_{5}	14.8	X	56.77566	330.57217	247.59839	2.27318	0.0334681	0.23110170	2.6298680	21	6 28.3	18.0
56169 1999 FU_{5}	14.8	X	189.43850	264.10945	314.58870	5.17648	0.0969589	0.25272471	2.4776364	21	12 12.8	18.3
56170 1999 FK_{6}	14.7	X	31.95927	145.93945	204.09311	2.10114	0.1193724	0.19859514	2.9095354	21	11 25.9	18.4
56171 1999 FR_{6}	15.3	X	217.01451	279.67787	196.48852	12.56811	0.2498722	0.24076046	2.5590529	21	8 16.6	19.8
56172 1999 FD_{7}	14.4	X	217.30807	179.16732	190.90976	3.99375	0.1055060	0.22415266	2.6839440	21	4 16.4	18.3
56173 1999 FV_{9}	14.5	X	178.89683	316.09585	178.55268	13.24708	0.0912066	0.23767559	2.5811486	21	8 12.2	18.6
56174 1999 FQ_{13}	15.3	X	280.90992	235.09263	170.28765	2.24863	0.0569111	0.24005933	2.5640333	21	8 25.6	18.3
56175 1999 FY_{24}	14.5	X	353.13074	239.20129	19.71206	12.92849	0.1323798	0.22734438	2.6587646	21	5 12.0	17.5
56176 1999 FK_{25}	14.2	X	99.00519	6.45416	56.23823	7.91718	0.0379872	0.21824540	2.7321591	21	2 3.9	18.0
56177 1999 FU_{25}	15.1	X	211.90715	328.48470	191.60981	5.05648	0.1053197	0.24436177	2.5338479	21	10 23.4	18.5
56178 1999 FQ_{26}	14.9	X	286.94434	236.93970	33.14359	5.77206	0.2069420	0.21911747	2.7249050	21	2 16.2	19.0
56179 1999 FS_{26}	15.3	X	42.37738	220.68433	41.58637	5.28688	0.2110802	0.23233831	2.6205282	21	9 7.4	18.3
56180 1999 FJ_{29}	15.3	X	345.72970	138.98237	37.00074	7.92530	0.1810594	0.21832629	2.7314842	21	1 3.9	18.7
56181 1999 FU_{29}	14.6	X	78.95589	30.80045	135.54661	6.48304	0.1294456	0.22858161	2.6491620	21	6 4.6	18.1
56182 1999 FE_{31}	14.1	X	282.25285	271.39930	44.50725	10.08862	0.1553351	0.22458830	2.6804721	21	4 14.6	18.0
56183 1999 FF_{34}	14.8	X	199.36298	307.83073	140.29630	3.70750	0.2025423	0.23548213	2.5971523	21	7 2.8	19.2
56184 1999 FB_{35}	14.3	X	268.19862	106.31965	168.70466	15.03734	0.1341769	0.21828068	2.7318647	21	2 6.6	18.5
56185 1999 FJ_{35}	14.4	X	62.63435	233.07462	36.77969	14.79230	0.1346415	0.23626639	2.5914018	21	10 7.0	17.9
56186 1999 FW_{36}	14.5	X	20.32945	198.37014	328.20843	8.37249	0.0963968	0.22117797	2.7079552	21	2 24.3	17.7
56187 1999 FR_{39}	15.8	X	309.15364	116.05397	12.40412	3.35398	0.2457722	0.25638135	2.4540219	21	—	—
56188 1999 FA_{40}	15.1	X	87.29804	254.21904	329.39875	14.19885	0.0764711	0.23727314	2.5840664	21	8 24.4	18.3
56189 1999 FS_{44}	14.5	X	208.11579	155.60747	306.99738	3.26423	0.2026610	0.24034262	2.5620181	21	7 29.1	18.6
56190 1999 FQ_{47}	13.4	X	39.71230	108.40167	342.78168	16.01798	0.1084373	0.17334690	3.1856056	21	1 4.4	17.6
56191 1999 FP_{49}	13.9	X	137.17269	330.80565	31.52278	5.56573	0.0675330	0.21735911	2.7395810	21	1 9.8	17.7
56192 1999 FD_{59}	15.0	X	314.46389	236.29655	38.07121	4.23410	0.1855983	0.26946076	2.3739544	21	3 20.8	17.8
56193 1999 GN_{1}	14.8	X	4.53346	43.47377	181.42457	12.66143	0.1184064	0.22354347	2.6888179	21	4 21.1	17.8
56194 1999 GV_{5}	14.7	X	11.51274	311.30834	229.36319	10.58679	0.0867392	0.21962929	2.7206701	21	2 25.6	18.1
56195 1999 GX_{6}	13.9	X	120.59877	271.68466	207.06986	25.69250	0.1151409	0.22791030	2.6543615	21	5 22.6	18.0
56196 1999 GF_{7}	14.3	X	211.53248	105.39288	181.26734	5.55249	0.1211852	0.25800682	2.4437039	21	—	—
56197 1999 GF_{8}	14.1	X	137.06491	148.07082	213.03745	6.01541	0.1410338	0.21360959	2.7715468	21	1 16.1	18.1
56198 1999 GB_{9}	14.3	X	349.81393	48.31263	196.66035	12.60016	0.1376453	0.22330095	2.6907644	21	4 20.4	17.1
56199 1999 GG_{11}	14.7	X	18.59672	105.51759	186.70230	13.56405	0.1817902	0.23400101	2.6080999	21	8 28.2	17.4
56200 1999 GU_{16}	13.7	X	31.48391	135.26151	42.24477	13.67511	0.1211525	0.22483168	2.6785374	21	4 5.2	16.7
56201 1999 GD_{17}	14.7	X	241.80805	199.69809	55.95472	11.65200	0.2005482	0.25706681	2.4496576	21	—	—
56202 1999 GA_{19}	13.6	X	71.11387	216.56211	58.93072	15.76597	0.0684112	0.23905849	2.5711846	21	10 17.9	17.2
56203 1999 GU_{20}	13.9	X	55.42816	219.65376	47.00137	15.27749	0.0590292	0.23511002	2.5998919	21	9 15.3	17.6
56204 1999 GQ_{22}	15.0	X	92.57462	202.05292	328.06529	5.54265	0.2897614	0.23198708	2.6231725	21	7 19.9	18.9
56205 1999 GX_{23}	14.2	X	312.32230	33.75488	19.58479	14.07625	0.0615325	0.24473503	2.5312709	21	10 21.8	17.3
56206 1999 GU_{34}	15.2	X	39.63152	303.18709	313.77191	3.27025	0.1873847	0.23179231	2.6246418	21	8 18.7	18.0
56207 1999 GU_{35}	14.1	X	320.06502	133.70214	229.99455	5.40038	0.0724545	0.23623147	2.5916572	21	8 22.0	17.3
56208 1999 GY_{35}	13.8	X	348.62070	322.95018	354.68109	9.44026	0.0792910	0.18934313	3.0035603	21	8 6.3	17.6
56209 1999 GB_{37}	14.4	X	200.44160	73.46736	63.82462	13.85892	0.1251736	0.24081264	2.5586833	21	9 16.9	18.5
56210 1999 GX_{41}	15.1	X	279.67164	67.49668	169.89387	12.70409	0.1729988	0.21533132	2.7567534	21	1 2.1	19.6
56211 1999 GG_{43}	14.4	X	212.18569	316.83359	94.93748	12.66114	0.1969086	0.23271546	2.6176961	21	5 31.3	18.8
56212 1999 GJ_{45}	14.2	X	295.04110	284.66312	147.76452	13.87050	0.1529506	0.24376779	2.5379623	21	10 16.8	17.1
56213 1999 GW_{50}	14.3	X	189.54994	249.35731	187.10961	11.55121	0.0460741	0.22976103	2.6400884	21	6 11.8	18.3
56214 1999 GC_{61}	15.6	X	99.14808	156.78248	6.52369	2.57397	0.0679584	0.22989719	2.6390458	21	6 17.2	19.0
56215 1999 HH	14.1	X	10.30256	258.42050	35.37051	15.55204	0.2344437	0.22910946	2.6450915	21	8 31.9	16.7
56216 1999 HJ_{2}	14.8	X	52.50253	216.05438	54.95231	9.78893	0.1604271	0.23499524	2.6007384	21	9 29.1	18.2
56217 1999 HH_{3}	14.3	X	210.74177	338.01545	172.85185	13.25064	0.1001570	0.24146214	2.5540929	21	10 11.8	18.0
56218 1999 HP_{4}	14.4	X	77.32430	227.76921	35.77984	10.60076	0.0211370	0.23854358	2.5748834	21	9 30.1	17.8
56219 1999 HP_{6}	14.4	X	30.92114	145.36976	207.05338	2.29101	0.1149387	0.24558757	2.5254094	21	12 6.5	17.4
56220 1999 HC_{11}	13.6	X	6.19345	285.19256	29.07739	9.86981	0.0957818	0.18978743	2.9988708	21	9 1.4	17.4
56221 1999 JK_{7}	14.2	X	34.14827	217.98031	89.85533	11.77661	0.0901441	0.19181281	2.9777231	21	10 7.3	18.3
56222 1999 JF_{9}	14.5	X	279.38769	254.23688	142.52086	10.30535	0.0095892	0.18879504	3.0093705	21	8 15.9	18.5
56223 1999 JP_{10}	14.9	X	340.73707	53.85335	165.60120	12.16679	0.1022734	0.21956157	2.7212294	21	3 4.7	18.3
56224 1999 JE_{12}	14.2	X	99.28920	97.78472	190.09452	29.40069	0.2764594	0.23747917	2.5825716	21	12 13.9	19.3
56225 1999 JL_{19}	15.2	X	42.42625	232.94341	13.65518	5.28797	0.2191266	0.22961597	2.6412002	21	8 16.4	18.1
56226 1999 JQ_{23}	14.4	X	167.46763	135.30332	199.49630	3.53621	0.2060715	0.20974601	2.8054783	21	1 21.7	19.0
56227 1999 JT_{23}	14.3	X	130.65127	184.07803	220.62300	4.65777	0.0662850	0.21696103	2.7429310	21	2 20.6	18.2
56228 1999 JX_{24}	14.7	X	343.16285	260.88851	3.67307	7.29139	0.2095153	0.22362044	2.6882009	21	4 23.8	17.5
56229 1999 JY_{27}	15.4	X	288.29294	116.40368	120.94194	1.32289	0.2302150	0.21451721	2.7637237	21	1 5.4	19.9
56230 1999 JJ_{28}	15.4	X	42.25387	203.75737	42.04246	3.27128	0.2394718	0.22901102	2.6458495	21	8 17.9	18.2
56231 1999 JZ_{30}	14.3	X	134.66752	237.52346	240.46066	7.24191	0.0653169	0.22683229	2.6627647	21	6 1.4	18.0
56232 1999 JM_{31}	15.3	X	206.05549	291.45660	46.00636	2.93343	0.2025602	0.30344830	2.1932068	21	2 16.4	18.7
56233 1999 JK_{42}	14.1	X	37.49641	226.26561	227.33867	16.61479	0.1134045	0.21134669	2.7912951	21	—	—
56234 1999 JL_{42}	14.4	X	163.54765	230.42561	68.67723	3.11055	0.0136521	0.20653876	2.8344470	21	—	—
56235 1999 JX_{43}	14.4	X	4.18309	249.95893	32.25186	13.77802	0.1845302	0.22721736	2.6597555	21	7 17.4	17.2
56236 1999 JP_{44}	15.0	X	21.40060	315.06364	235.45642	12.03757	0.0668890	0.22080558	2.7109990	21	3 27.5	18.4
56237 1999 JB_{45}	14.7	X	63.81983	261.36646	214.57855	2.66762	0.0363725	0.21666881	2.7453968	21	2 21.1	18.3
56238 1999 JA_{46}	14.9	X	121.93083	98.35397	127.25538	4.37861	0.1579479	0.23713774	2.5850499	21	10 15.5	18.9
56239 1999 JO_{46}	14.4	X	31.78450	247.49636	94.63577	3.51519	0.0680207	0.19488706	2.9463254	21	11 8.8	18.3
56240 1999 JV_{51}	14.2	X	28.28042	35.23172	233.07741	13.03289	0.1139618	0.22920847	2.6443297	21	7 30.2	17.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56241 1999 JU_{53}	14.0	X	151.50805	164.52352	64.67581	15.61185	0.0962438	0.24072011	2.5593389	21	11 16.1	17.8
56242 1999 JZ_{55}	15.1	X	253.11055	234.21547	42.61315	4.70627	0.2070639	0.21285326	2.7781083	21	1 24.5	19.8
56243 1999 JZ_{60}	13.8	X	20.78693	66.54651	85.08112	13.18249	0.0978885	0.17073456	3.2180176	21	2 22.1	18.0
56244 1999 JH_{62}	14.9	X	169.69724	102.97814	94.74452	4.68245	0.1572727	0.23964066	2.5670187	21	10 25.1	19.0
56245 1999 JZ_{69}	14.6	X	353.32063	130.15187	72.64425	9.96216	0.0839093	0.21988495	2.7185608	21	3 9.6	18.1
56246 1999 JK_{72}	15.8	X	165.34632	7.69650	127.87008	6.16445	0.2309116	0.23483627	2.6019119	21	8 2.9	20.4
56247 1999 JZ_{72}	15.7	X	136.98353	67.47448	95.21458	5.02000	0.2176407	0.23377132	2.6098080	21	8 14.2	20.0
56248 1999 JQ_{74}	15.1	X	163.14889	82.45844	109.42201	5.98061	0.2433284	0.23982783	2.5656830	21	10 12.1	19.7
56249 1999 JS_{74}	13.9	X	56.07692	87.08657	153.24947	11.48394	0.2018911	0.22987125	2.6392444	21	8 24.0	16.9
56250 1999 JE_{76}	14.7	X	119.98662	283.65949	269.72907	6.94304	0.0411399	0.23341350	2.6124745	21	8 17.8	18.4
56251 1999 JR_{77}	13.8	X	34.80773	230.37278	106.65924	10.26239	0.1420474	0.23751445	2.5823159	21	11 26.3	17.1
56252 1999 JF_{78}	14.6	X	95.31945	127.15844	33.71266	11.41835	0.1170842	0.22893051	2.6464698	21	6 15.1	18.3
56253 1999 JH_{79}	14.4	X	23.20726	125.70295	142.17602	17.33557	0.1944142	0.22860497	2.6489816	21	8 3.9	17.1
56254 1999 JO_{81}	14.3	X	111.08563	143.20022	58.72910	14.46098	0.1157516	0.23512859	2.5997550	21	9 6.9	18.4
56255 1999 JV_{81}	14.7	X	225.96718	182.46413	81.45237	9.52888	0.1873010	0.20997093	2.8034745	21	—	—
56256 1999 JO_{82}	14.4	X	61.29742	58.92956	171.53535	10.75592	0.0982039	0.23079747	2.6321786	21	7 30.2	17.9
56257 1999 JZ_{82}	14.5	X	6.79865	59.62963	159.32030	14.51199	0.2079232	0.22301781	2.6930413	21	4 14.1	17.1
56258 1999 JH_{83}	14.4	X	102.63455	88.40832	159.52688	12.25238	0.1408965	0.23692622	2.5865882	21	10 24.5	18.4
56259 1999 JY_{86}	15.1	X	37.12896	155.19802	81.31779	12.65687	0.1377506	0.22888366	2.6468309	21	7 7.6	18.0
56260 1999 JL_{87}	14.6	X	72.55216	50.33426	75.01553	14.27724	0.1526330	0.22241020	2.6979439	21	4 10.3	18.1
56261 1999 JT_{87}	15.0	X	56.24562	69.86062	81.39307	12.41281	0.1439096	0.22344826	2.6895816	21	4 16.4	18.3
56262 1999 JE_{89}	13.9	X	298.31363	228.40861	100.11517	15.20670	0.2082690	0.22567774	2.6718387	21	5 16.5	17.6
56263 1999 JF_{95}	14.2	X	330.43623	68.97981	77.14007	18.15579	0.0798405	0.20940913	2.8084863	21	—	—
56264 1999 JV_{95}	14.4	X	335.56656	225.07771	124.64530	11.73195	0.1242929	0.18795805	3.0182979	21	8 25.5	17.9
56265 1999 JD_{96}	14.5	X	353.94751	146.92232	160.47476	16.59471	0.0863988	0.18543551	3.0456088	21	7 26.9	18.5
56266 1999 JJ_{97}	14.0	X	358.42631	174.85773	126.33982	12.13911	0.0813567	0.18515263	3.0487101	21	7 27.2	17.7
56267 1999 JW_{97}	14.4	X	331.26621	171.09999	138.31807	16.70486	0.2227930	0.18177574	3.0863518	21	6 11.8	18.1
56268 1999 JN_{98}	14.8	X	22.62796	39.71775	172.73154	14.07607	0.1004822	0.22290869	2.6939202	21	5 7.2	18.1
56269 1999 JB_{100}	14.7	X	288.04881	39.19428	162.12554	8.16170	0.1583153	0.20993877	2.8037608	21	—	—
56270 1999 JD_{100}	14.3	X	0.48584	190.55650	131.75868	11.87778	0.1149839	0.18631224	3.0360468	21	8 31.5	17.9
56271 1999 JK_{102}	14.8	X	350.17485	198.68158	174.55494	6.81115	0.1539163	0.28329664	2.2960170	21	11 14.6	16.8
56272 1999 JS_{103}	14.2	X	336.09932	242.27896	82.59187	13.47051	0.1875526	0.18451916	3.0556837	21	7 15.9	17.6
56273 1999 JZ_{103}	14.6	X	226.43470	23.71269	93.30085	16.95683	0.1310056	0.24028287	2.5624428	21	9 18.8	18.7
56274 1999 JM_{104}	14.5	X	204.66016	147.47198	166.01391	15.92711	0.1518604	0.21343949	2.7730192	21	1 24.9	19.3
56275 1999 JK_{117}	14.7	X	16.19129	107.10970	184.90687	1.76575	0.1572442	0.18548009	3.0451207	21	8 17.9	18.1
56276 1999 JY_{123}	14.5	X	53.02566	70.93508	156.25702	3.43806	0.1204582	0.22714771	2.6602992	21	7 17.8	17.6
56277 1999 JU_{129}	15.3	X	295.17024	351.24081	199.65982	11.64155	0.2271202	0.21088775	2.7953433	21	—	—
56278 1999 KB	14.1	X	10.16057	166.11325	164.17993	11.50022	0.1405948	0.19016309	2.9949200	21	9 30.3	17.6
56279 1999 KD_{1}	15.0	X	297.49417	349.89663	213.53026	9.09505	0.1478510	0.21237962	2.7822372	21	—	—
56280 Asemo	14.1	X	86.42467	131.53516	201.76482	9.11003	0.1939634	0.24097932	2.5575032	21	—	—
56281 1999 KQ_{7}	14.6	X	341.75681	196.04162	38.34658	14.03516	0.1527933	0.22284915	2.6943999	21	3 25.6	17.8
56282 1999 KU_{13}	14.4	X	81.39357	294.18950	236.48897	12.60909	0.1275641	0.22513721	2.6761135	21	6 12.5	17.9
56283 1999 LU_{1}	13.5	X	31.85733	43.75620	87.38168	24.37683	0.2174266	0.26988045	2.3714925	21	1 3.5	15.3
56284 1999 LA_{2}	14.1	X	266.10565	99.05672	178.47194	8.19802	0.1416228	0.21321724	2.7749458	21	2 7.8	18.4
56285 1999 LJ_{3}	15.3	X	246.12423	74.36260	116.63282	3.12753	0.0093084	0.20329218	2.8645447	21	—	—
56286 1999 LG_{9}	13.3	X	231.94297	168.62319	221.91286	27.20858	0.1467598	0.17910024	3.1170129	21	5 25.8	18.4
56287 1999 LM_{10}	14.3	X	95.38988	175.50433	122.71944	14.97577	0.1068306	0.19564138	2.9387472	21	12 7.7	18.9
56288 1999 LS_{11}	14.7	X	331.25363	164.06333	85.13777	14.27313	0.1424019	0.21996871	2.7178706	21	4 2.2	18.3
56289 1999 LM_{26}	14.5	X	120.80458	347.78712	264.01014	23.30496	0.1798445	0.28217877	2.3020769	21	11 19.1	18.4
56290 1999 LX_{32}	14.5	X	118.44683	127.36243	94.82945	16.31416	0.0037923	0.19112668	2.9848454	21	9 27.1	19.0
56291 1999 NG_{3}	15.0	X	295.67575	203.62825	165.12440	13.37224	0.2057866	0.22315249	2.6919577	21	7 2.1	18.7
56292 1999 NK_{40}	14.7	X	188.34025	148.99072	114.94591	6.24853	0.0779113	0.28793812	2.2712762	21	—	—
56293 1999 NH_{44}	14.7	X	89.99146	71.41027	167.91705	7.95500	0.1755369	0.23230830	2.6207539	21	10 1.3	18.6
56294 1999 NF_{47}	13.9	X	79.29231	143.04708	140.67314	11.50831	0.1329195	0.18923082	3.0047485	21	11 6.7	18.5
56295 1999 NB_{54}	14.9	X	187.35018	325.09676	225.65186	9.28117	0.0618901	0.27845612	2.3225489	21	11 12.4	17.7
56296 1999 RU_{39}	14.6	X	348.36336	105.98347	265.21055	6.38228	0.2437037	0.27197228	2.3593170	21	11 11.7	16.2
56297 1999 RT_{42}	13.3	X	285.78246	0.97465	308.44517	18.17881	0.1080705	0.16998889	3.2274216	21	4 10.2	18.3
56298 1999 RO_{46}	13.8	X	356.29595	132.41045	144.05524	17.01491	0.2172408	0.17789213	3.1311092	21	6 18.8	17.3
56299 1999 RT_{47}	13.6	X	271.01173	1.70329	337.76630	6.84646	0.0671760	0.17206835	3.2013664	21	5 12.7	18.3
56300 1999 RB_{60}	14.6	X	192.60789	316.41532	327.76839	14.98524	0.2260108	0.20128965	2.8835120	21	—	—
56301 1999 RP_{60}	14.2	X	159.27845	263.05844	313.05413	12.88950	0.1493732	0.18879227	3.0093999	21	10 24.9	19.3
56302 1999 RW_{69}	15.6	X	194.09423	335.50231	157.31753	2.30752	0.0255228	0.22307379	2.6925908	21	9 1.1	19.4
56303 1999 RW_{98}	13.6	X	307.18595	210.86740	180.33471	24.80254	0.2088961	0.17513285	3.1639114	21	8 15.9	17.7
56304 1999 RB_{119}	13.4	X	62.49384	17.24714	290.92905	16.21858	0.1826636	0.18657841	3.0331586	21	11 16.6	18.0
56305 1999 RX_{119}	14.5	X	120.75148	144.26383	148.25169	14.92611	0.1780609	0.19284584	2.9670796	21	12 26.6	19.6
56306 1999 RL_{125}	13.4	X	339.58233	355.67610	332.48262	15.92207	0.0966055	0.17658033	3.1465973	21	8 5.0	17.3
56307 1999 RY_{125}	13.5	X	30.83315	311.55184	323.74302	15.96380	0.2032143	0.17954337	3.1118821	21	8 25.5	17.0
56308 1999 RH_{132}	15.0	X	166.15323	52.21786	258.45544	4.34900	0.1746906	0.28928172	2.2642379	21	—	—
56309 1999 RW_{140}	15.8	X	341.23298	357.31683	240.89470	1.59023	0.0822266	0.30237502	2.1983935	21	3 19.0	17.9
56310 1999 RE_{151}	15.0	X	239.93982	338.51016	34.43293	3.99862	0.0429518	0.21489419	2.7604906	21	5 19.9	18.8
56311 1999 RA_{221}	16.5	X	303.82398	268.20055	57.07380	5.55707	0.1685517	0.30649734	2.1786372	21	5 15.3	18.9
56312 1999 RM_{224}	13.4	X	289.81722	284.74801	18.05193	10.82508	0.0977449	0.16836531	3.2481368	21	4 17.3	17.9
56313 1999 SV_{14}	13.6	X	22.67182	301.34453	311.18716	25.00933	0.2662068	0.17560180	3.1582760	21	7 22.1	16.8
56314 1999 TZ_{97}	13.2	X	10.53430	90.17773	53.65860	12.29743	0.1336750	0.19717913	2.9234483	21	1 15.2	16.8
56315 1999 TH_{121}	15.5	X	41.96361	256.20314	48.88945	4.39712	0.2153734	0.22601418	2.6691865	21	11 1.6	18.9
56316 1999 TA_{227}	15.6	X	140.81949	172.12448	126.06177	1.77567	0.1900414	0.28582246	2.2824704	21	—	—
56317 1999 TJ_{232}	13.6	X	25.52563	186.62511	95.78729	10.67977	0.1987404	0.17610887	3.1522107	21	8 31.0	17.3
56318 1999 UR_{3}	15.5	X	103.84645	22.63206	89.21202	26.88918	0.0691966	0.38575557	1.8689366	21	4 14.8	18.1
56319 1999 UM_{10}	15.7	X	28.47553	35.19212	12.61364	20.53891	0.0998782	0.36636712	1.9343055	21	—	—
56320 1999 VB_{49}	16.0	X	185.38212	323.71960	13.90066	6.90075	0.1273604	0.28951942	2.2629984	21	1 27.4	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56321 1999 VB_{53}	14.5	X	306.70783	253.60203	253.05163	22.25307	0.0490082	0.36552359	1.9372802	21	—	—
56322 1999 VH_{68}	16.0	X	243.83121	87.63415	71.05736	3.02561	0.1486623	0.26967653	2.3726879	21	11 26.9	18.8
56323 1999 VE_{82}	13.3	X	32.76348	236.09320	28.39869	18.08172	0.1292153	0.17262415	3.1944911	21	8 14.9	17.7
56324 1999 VY_{175}	13.0	X	121.50526	266.14763	65.98216	10.75381	0.1249499	0.19124052	2.9836607	21	—	—
56325 1999 VT_{179}	13.1	X	29.28572	192.46015	103.13345	17.07224	0.2133105	0.17397481	3.1779359	21	9 30.9	17.2
56326 1999 VV_{203}	12.2	X	218.37827	10.12247	25.12525	21.82745	0.0326305	0.16900499	3.2399355	21	5 19.9	17.2
56327 1999 VH_{215}	13.7	X	84.23804	6.75610	306.68239	20.04575	0.1369070	0.18607877	3.0385858	21	12 14.1	18.6
56328 1999 WE	16.0	X	322.92357	202.12953	234.47822	19.27716	0.0896069	0.36147342	1.9517243	21	—	—
56329 Tarxien	16.3	X	283.69706	282.34037	254.21997	5.81824	0.0459110	0.27689014	2.3312976	21	—	—
56330 1999 XS_{12}	15.1	X	296.80026	247.50770	216.45646	11.01525	0.1163743	0.26895843	2.3769093	21	12 10.2	17.6
56331 1999 XD_{33}	14.6	X	160.06765	257.24932	110.37666	10.59417	0.1064335	0.28208064	2.3026108	21	2 5.6	17.7
56332 1999 XR_{34}	15.5	X	212.25707	173.57081	232.65817	1.34076	0.1149831	0.29409753	2.2394522	21	5 23.3	18.7
56333 1999 XU_{100}	15.2	X	319.71613	11.30357	71.67926	3.39674	0.1342014	0.26834679	2.3805197	21	12 21.9	17.4
56334 1999 XN_{101}	15.7	X	181.24853	285.36350	278.49899	16.90262	0.0621311	0.35586130	1.9721906	21	12 6.9	18.0
56335 1999 XO_{111}	13.7	X	315.09519	218.13982	28.47967	13.22660	0.1325672	0.23795975	2.5790933	21	3 2.7	17.2
56336 1999 XL_{126}	15.4	X	186.96561	339.09212	284.73300	5.75317	0.1294852	0.27787543	2.3257835	21	—	—
56337 1999 XG_{136}	15.3	X	327.75536	349.47477	74.95283	23.99070	0.0926360	0.35683287	1.9686090	21	—	—
56338 1999 XS_{162}	15.6	X	231.71359	77.95541	8.99300	18.53814	0.0627862	0.39916356	1.8268468	21	9 4.4	17.4
56339 1999 XV_{169}	15.8	X	319.28196	327.35922	61.45222	4.72185	0.1807289	0.30889957	2.1673273	21	10 6.5	17.0
56340 1999 XE_{176}	14.6	X	313.33138	152.32368	63.92111	7.31249	0.0305756	0.28140365	2.3063023	21	1 20.9	17.5
56341 1999 XS_{221}	13.6	X	244.94545	245.00843	49.09170	10.65913	0.0556381	0.15049340	3.5004544	21	2 28.8	18.9
56342 1999 XW_{238}	16.2	X	258.77176	229.49818	54.64324	8.16969	0.1462596	0.29045062	2.2581590	21	2 1.2	19.7
56343 1999 YG	15.2	X	339.74687	280.77910	109.64313	24.42614	0.1426829	0.35921127	1.9599098	21	12 15.5	16.8
56344 1999 YV_{17}	16.1	X	32.10775	73.79442	334.87938	20.04449	0.0865029	0.36754062	1.9301860	21	—	—
56345 2000 AN_{41}	15.5	X	285.98318	22.66491	24.92905	4.67041	0.2477999	0.25943196	2.4347464	21	8 8.1	18.3
56346 2000 AK_{64}	15.4	X	344.38852	139.56582	103.74630	7.69006	0.0655251	0.28714847	2.2754382	21	4 11.4	17.9
56347 2000 AU_{64}	14.9	X	69.01208	74.95934	100.86693	9.09895	0.1316500	0.24301905	2.5431726	21	6 2.7	18.0
56348 2000 AH_{69}	15.7	X	281.04306	286.46931	109.91155	5.71892	0.1559542	0.30602201	2.1808926	21	7 31.5	17.9
56349 2000 AZ_{90}	15.3	X	88.19402	211.25182	140.66570	6.12216	0.2511603	0.27320170	2.3522336	21	—	—
56350 2000 AB_{92}	14.5	X	215.68106	274.32252	262.61109	6.68667	0.1183726	0.21567150	2.7538538	21	11 10.7	18.7
56351 2000 AN_{93}	15.4	X	266.37565	98.98450	122.26521	23.89805	0.0531132	0.36487338	1.9395810	21	—	—
56352 2000 AR_{93}	15.8	X	219.63243	142.69683	134.14572	25.03969	0.0572770	0.36874263	1.9259891	21	—	—
56353 2000 AB_{103}	14.6	X	231.81115	47.20973	109.91500	8.60020	0.2127243	0.22075692	2.7113973	21	10 29.3	18.8
56354 2000 AF_{129}	15.4	X	262.80802	239.43659	135.40156	5.43262	0.1751758	0.29740825	2.2228017	21	6 1.3	18.4
56355 2000 AX_{130}	12.3	X	296.51453	257.95219	186.78120	2.53398	0.0379680	0.08108892	5.2864206	21	10 20.1	19.2
56356 2000 AY_{138}	14.3	X	150.78314	283.19789	78.69961	12.12241	0.1947542	0.24360950	2.5390616	21	2 6.0	18.3
56357 2000 AS_{143}	15.8	X	226.25455	259.11675	269.73644	4.49460	0.1167452	0.30807907	2.1711738	21	11 29.3	18.4
56358 2000 AR_{201}	15.9	X	285.63672	76.17578	142.15542	24.53135	0.0740177	0.36905592	1.9248989	21	—	—
56359 2000 AZ_{228}	14.6	X	46.30056	221.33006	154.98511	14.44338	0.2142121	0.22952607	2.6418898	21	—	—
56360 2000 AP_{239}	15.1	X	33.63915	353.82982	122.77874	23.99228	0.0594593	0.36866720	1.9262518	21	—	—
56361 2000 CW_{1}	15.0	X	37.86868	328.92718	306.46162	2.96708	0.1824251	0.29393233	2.2402912	21	9 16.9	17.1
56362 2000 CG_{56}	15.6	X	73.15492	175.79915	70.23646	3.54813	0.0846060	0.29654510	2.2271128	21	9 14.3	18.2
56363 2000 CP_{93}	15.6	X	238.97802	260.76653	215.17437	1.77505	0.0355504	0.21239553	2.7820983	21	10 3.1	19.2
56364 2000 CU_{116}	15.7	X	40.85569	3.66025	95.12653	7.04572	0.0572421	0.27571713	2.3379051	21	—	—
56365 2000 DG_{54}	16.0	X	72.14392	119.31413	174.33908	2.83828	0.1650969	0.30145924	2.2028435	21	11 27.9	19.0
56366 2000 DO_{69}	16.2	X	236.39387	170.13457	341.19267	4.76687	0.0195696	0.30569460	2.1824495	21	12 3.4	18.6
56367 2000 EF	15.0	X	256.47491	179.40808	77.77799	13.07628	0.1646985	0.22619842	2.6677369	21	1 3.6	19.4
56368 2000 EU_{5}	16.2	X	355.86355	230.72293	163.88347	1.33396	0.1384636	0.30598936	2.1810477	21	12 30.4	18.2
56369 2000 EW_{6}	15.5	X	34.97083	301.50549	16.88460	5.72242	0.1781279	0.29746126	2.2225375	21	11 14.7	17.9
56370 2000 EV_{7}	15.1	X	292.92245	318.02188	3.89922	7.19097	0.1407123	0.28633190	2.2797622	21	4 28.0	17.9
56371 2000 EC_{15}	14.6	X	21.72483	307.33809	355.04974	10.20185	0.1939638	0.29142912	2.2531015	21	9 30.9	16.6
56372 2000 EX_{19}	15.3	X	4.04105	192.69377	86.14354	6.26441	0.2084080	0.28701934	2.2761206	21	7 9.7	16.4
56373 2000 EF_{20}	15.3	X	352.45112	93.18199	140.08290	1.86088	0.0995831	0.27942886	2.3171557	21	4 3.2	17.6
56374 2000 EM_{24}	16.5	X	71.46692	281.92046	359.37402	4.99655	0.1920467	0.29683532	2.2256609	21	11 11.2	19.7
56375 2000 EJ_{25}	15.9	X	251.50430	182.77593	169.50292	0.94104	0.1537506	0.28489801	2.2874052	21	4 20.8	19.1
56376 2000 EE_{33}	15.2	X	73.85557	266.37624	135.54738	7.50304	0.1187330	0.27268273	2.3552172	21	—	—
56377 2000 EU_{35}	15.9	X	159.73834	124.83728	36.56060	6.60698	0.0584947	0.29533898	2.2331722	21	9 4.7	18.8
56378 2000 ED_{37}	15.6	X	75.27866	139.82147	354.74217	6.02345	0.0208924	0.28183785	2.3039330	21	3 22.5	18.2
56379 2000 EU_{42}	15.5	X	300.70762	325.71869	10.87489	5.71900	0.1941829	0.28835747	2.2690736	21	5 22.6	18.1
56380 2000 EJ_{43}	15.7	X	39.17668	95.45574	178.41923	6.21264	0.1336529	0.29219661	2.2491544	21	9 8.6	17.9
56381 2000 EN_{43}	16.1	X	133.01882	342.42962	169.50912	5.85292	0.0485170	0.29089259	2.2558711	21	7 12.8	19.0
56382 2000 ES_{43}	15.7	X	96.05996	5.02880	164.87310	6.09877	0.0379232	0.28811368	2.2703534	21	6 16.5	18.4
56383 2000 EJ_{47}	15.2	X	68.39493	268.22070	10.93359	5.31791	0.1782162	0.29581778	2.2307618	21	11 3.4	18.1
56384 2000 EX_{47}	15.6	X	230.62624	34.04518	2.00438	7.05099	0.1151813	0.28864837	2.2675488	21	5 28.4	18.8
56385 2000 EN_{48}	15.8	X	49.15269	284.07317	19.20479	3.70246	0.1648635	0.29641960	2.2277414	21	11 11.4	18.6
56386 2000 EG_{54}	15.8	X	8.35849	276.72587	74.75172	4.96695	0.1256787	0.29816879	2.2190202	21	11 14.1	17.7
56387 2000 EA_{64}	15.8	X	39.03490	318.93007	16.27807	3.52974	0.1823018	0.30127971	2.2037185	21	12 16.1	18.4
56388 2000 EN_{69}	15.1	X	35.84572	304.34733	5.05283	3.70715	0.2171121	0.29530071	2.2333651	21	11 9.6	17.6
56389 2000 EB_{87}	15.9	X	346.65543	70.27400	213.72431	4.15118	0.1384735	0.28779464	2.2720310	21	6 6.6	17.6
56390 2000 EH_{91}	15.2	X	329.40770	54.26724	219.98517	5.03589	0.1481457	0.28390153	2.2927545	21	4 15.2	17.6
56391 2000 ET_{97}	15.5	X	73.73448	260.05478	354.02829	3.77675	0.1133859	0.29308287	2.2446179	21	9 28.1	18.2
56392 2000 ET_{106}	15.8	X	82.78905	249.35037	356.69920	4.61874	0.1402335	0.29311049	2.2444769	21	10 1.9	18.8
56393 2000 ER_{120}	15.8	X	43.65229	203.35394	96.64648	7.92449	0.1335992	0.29959332	2.2119805	21	10 30.3	18.4
56394 2000 EB_{126}	15.4	X	143.04365	99.18276	136.87193	6.67125	0.0822627	0.25691470	2.4506244	21	11 18.6	19.0
56395 2000 EV_{126}	15.9	X	109.38041	131.88033	141.38025	6.75459	0.1919894	0.30167373	2.2017993	21	12 10.2	19.5
56396 2000 EX_{129}	14.5	X	296.39273	275.00078	9.57367	9.27928	0.2204206	0.28036763	2.3119803	21	3 6.3	17.8
56397 2000 EN_{134}	15.6	X	292.91578	338.08668	83.11777	6.77992	0.1558056	0.30089804	2.2055817	21	10 4.7	17.5
56398 2000 EW_{134}	16.2	X	103.15666	178.74529	51.23082	6.58798	0.1198079	0.29560892	2.2318125	21	10 5.2	19.2
56399 2000 EU_{135}	15.0	X	272.65896	164.82270	149.60542	11.79487	0.2057504	0.28066130	2.3103673	21	3 21.7	18.5
56400 2000 EF_{140}	13.5	X	342.25406	107.20772	87.46112	11.44429	0.0433109	0.18512681	3.0489935	21	2 20.6	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56401 2000 EN_{155}	15.0	X	306.24013	342.10370	312.95851	8.53065	0.0678799	0.28464492	2.2887609	21	4 18.3	17.9
56402 2000 ET_{157}	15.0	X	218.65713	69.40126	262.42643	5.25602	0.1379990	0.27765868	2.3269937	21	2 19.4	18.6
56403 2000 FL	15.6	X	184.31823	22.04248	72.14806	6.90486	0.1173201	0.29067615	2.2569908	21	6 27.6	18.8
56404 2000 FC_{12}	14.1	X	337.31159	67.43300	48.36165	11.45119	0.1670399	0.27029644	2.3690587	21	—	—
56405 2000 FH_{17}	16.1	X	243.49781	34.67509	66.23599	5.56674	0.0907916	0.29995379	2.2102080	21	9 23.8	18.7
56406 2000 FZ_{20}	15.1	X	183.83855	290.93525	37.54814	14.30249	0.1797732	0.27237802	2.3569733	21	1 22.3	19.0
56407 2000 FA_{22}	16.3	X	103.63937	205.65660	56.49176	7.98408	0.1101389	0.29996848	2.2101358	21	11 15.1	19.2
56408 2000 FH_{22}	16.0	X	113.05433	190.46256	102.25613	5.91493	0.1066804	0.30531464	2.1842598	21	—	—
56409 2000 FQ_{29}	16.5	X	96.79751	221.23655	4.94201	4.46835	0.1812268	0.29332469	2.2433841	21	9 26.3	19.6
56410 2000 FZ_{34}	16.3	X	180.53806	185.91464	64.02389	2.45312	0.1450891	0.30723219	2.1751618	21	—	—
56411 2000 FE_{35}	15.4	X	59.94860	211.59522	130.78407	3.83899	0.1365117	0.30420353	2.1895753	21	—	—
56412 2000 FM_{40}	15.6	X	101.81714	111.00272	67.86367	7.12485	0.0282928	0.28929891	2.2641482	21	7 6.7	18.2
56413 2000 FU_{40}	16.5	X	240.35339	21.63058	142.83394	6.04684	0.0744546	0.30569481	2.1824485	21	12 20.3	19.0
56414 2000 FK_{42}	15.4	X	35.71151	201.30562	168.81857	6.76508	0.1242963	0.30527140	2.1844661	21	—	—
56415 2000 FR_{46}	15.4	X	257.69922	240.32085	79.16719	7.17269	0.1236003	0.27969829	2.3156674	21	3 22.2	18.8
56416 2000 FS_{55}	16.0	X	351.40516	229.32471	102.09609	5.26415	0.0762284	0.29359065	2.2420290	21	9 8.4	18.1
56417 2000 FO_{58}	15.3	X	108.83697	324.60951	82.59428	7.56445	0.0900994	0.27770103	2.3267571	21	1 20.7	17.9
56418 2000 FL_{59}	16.0	X	327.69150	186.97317	41.95553	8.51908	0.0817978	0.27843682	2.3226563	21	2 22.8	18.9
56419 2000 FM_{59}	16.1	X	285.05517	271.59135	138.65580	6.63775	0.0653168	0.29754195	2.2221357	21	9 14.5	18.4
56420 2000 FX_{60}	15.6	X	283.48538	174.72204	105.57566	7.36735	0.1031575	0.27815401	2.3242303	21	3 1.2	18.7
56421 2000 GV_{2}	15.5	X	89.27535	217.65865	77.28074	7.03611	0.2151101	0.30158587	2.2022269	21	12 19.8	19.0
56422 Mnajdra	15.0	X	168.53332	251.53972	72.93974	3.12502	0.2071404	0.26691480	2.3890264	21	1 2.6	18.6
56423 2000 GW_{3}	15.4	X	310.38612	168.22204	98.17715	2.12458	0.1467073	0.27864839	2.3214804	21	3 8.4	18.1
56424 2000 GG_{5}	15.4	X	119.49029	44.64963	247.10137	4.60040	0.1259784	0.30450611	2.1881246	21	—	—
56425 2000 GZ_{7}	14.5	X	222.58956	156.01308	131.46822	7.64970	0.1797553	0.26839714	2.3802220	21	1 3.2	18.4
56426 2000 GW_{24}	16.0	X	323.76927	291.13235	5.57512	5.75544	0.2484837	0.28314607	2.2968309	21	4 20.6	18.3
56427 2000 GO_{27}	15.3	X	316.30713	183.22692	168.07541	2.36060	0.0751609	0.19936586	2.9020320	21	7 29.5	18.9
56428 2000 GT_{27}	16.7	X	64.34000	140.35928	149.84282	1.04239	0.1230911	0.29698050	2.2249355	21	11 8.0	19.4
56429 2000 GY_{27}	16.4	X	189.60475	103.80631	39.69199	1.59759	0.0927590	0.29676790	2.2259980	21	9 12.2	19.5
56430 2000 GP_{29}	15.4	X	81.55303	135.30870	218.43898	1.86568	0.1941003	0.26133197	2.4229309	21	—	—
56431 2000 GX_{33}	15.5	X	167.89745	130.46962	228.13059	1.59337	0.2490922	0.27261354	2.3556157	21	2 14.4	19.4
56432 2000 GY_{33}	15.7	X	194.20654	68.64831	242.35128	1.11476	0.2220515	0.26826793	2.3809862	21	1 9.2	19.5
56433 2000 GR_{34}	14.4	X	153.68612	248.15023	105.18323	11.09348	0.2743228	0.26595641	2.3947623	21	1 31.7	18.2
56434 2000 GN_{38}	15.9	X	240.90497	161.86784	156.82691	2.79987	0.1735433	0.27621018	2.3351221	21	2 25.5	19.3
56435 2000 GQ_{38}	15.0	X	176.97320	180.26247	160.01562	2.39802	0.2173794	0.27070532	2.3666726	21	1 29.2	18.7
56436 2000 GZ_{46}	14.8	X	4.56864	131.35004	206.25726	5.11303	0.2078949	0.29401002	2.2398966	21	10 27.9	16.3
56437 2000 GT_{48}	15.4	X	233.11707	285.00649	22.87981	7.02177	0.1244187	0.27371937	2.3492669	21	2 9.5	19.0
56438 2000 GV_{49}	15.4	X	337.07977	136.99980	196.12285	6.37585	0.1435476	0.29048045	2.2580044	21	8 5.7	17.2
56439 2000 GD_{52}	14.7	X	69.32605	315.59361	38.34891	6.61755	0.1719987	0.30532218	2.1842239	21	—	—
56440 2000 GY_{52}	15.9	X	31.24422	37.37299	9.63927	4.51321	0.0699469	0.30904227	2.1666601	21	—	—
56441 2000 GW_{54}	16.0	X	187.73308	296.40707	207.99518	4.47774	0.0758993	0.29560414	2.2318365	21	9 9.8	19.0
56442 2000 GP_{66}	14.5	X	124.68468	12.68932	13.20057	5.89237	0.0321573	0.22438695	2.6820754	21	1 17.9	18.1
56443 2000 GX_{67}	15.3	X	252.39197	201.20330	169.97759	2.90627	0.0854519	0.28525496	2.2854966	21	5 25.8	18.4
56444 2000 GB_{68}	15.3	X	217.07866	171.02863	113.33335	1.54436	0.2044391	0.26701827	2.3884092	21	—	—
56445 2000 GN_{71}	15.6	X	160.79099	227.02068	191.34581	5.46496	0.1297992	0.28059090	2.3107537	21	4 16.0	18.7
56446 2000 GF_{74}	15.6	X	231.04893	69.69422	33.79437	4.18772	0.0843041	0.29525981	2.2335713	21	9 9.6	18.4
56447 2000 GR_{76}	15.9	X	60.36066	119.28901	25.18389	5.61028	0.0859568	0.27849427	2.3223368	21	3 23.4	18.2
56448 2000 GY_{76}	15.8	X	7.88950	178.24974	41.51779	3.57134	0.1411891	0.28018290	2.3129964	21	4 7.9	17.5
56449 2000 GS_{78}	16.5	X	260.73399	63.55614	47.83224	2.07106	0.1125764	0.30102981	2.2049380	21	10 28.2	18.7
56450 2000 GU_{80}	14.8	X	19.33029	180.92351	112.17259	13.30977	0.2114624	0.24113862	2.5563768	21	9 14.6	17.5
56451 2000 GN_{81}	14.8	X	92.18174	320.94742	32.34410	3.41509	0.1850819	0.26002890	2.4310187	21	—	—
56452 2000 GU_{86}	15.3	X	165.73371	170.17501	155.41068	2.89208	0.1696345	0.26793030	2.3829860	21	—	—
56453 2000 GG_{87}	15.5	X	210.61691	268.18814	60.03798	7.78484	0.1284568	0.27425264	2.3462206	21	2 13.2	19.2
56454 2000 GM_{87}	15.3	X	5.40258	271.37380	114.64014	7.18024	0.1557627	0.30363510	2.1923072	21	—	—
56455 2000 GW_{87}	15.3	X	91.38470	182.84416	104.98520	6.77361	0.1813146	0.29903711	2.2147225	21	12 10.9	18.7
56456 2000 GE_{89}	14.8	X	194.45717	216.67658	63.76471	6.43000	0.1005112	0.26556870	2.3970925	21	—	—
56457 2000 GE_{95}	15.1	X	124.56801	24.30385	249.51440	4.90213	0.1774051	0.30091297	2.2055087	21	12 22.8	18.4
56458 2000 GA_{96}	15.7	X	193.36698	138.38097	22.72734	7.73756	0.0162288	0.29679826	2.2258462	21	10 17.6	18.2
56459 2000 GD_{96}	15.8	X	24.72776	42.67287	217.13803	2.49710	0.1230348	0.28634260	2.2797055	21	7 18.3	17.7
56460 2000 GE_{96}	15.2	X	59.42225	281.05426	3.70231	3.38054	0.2111208	0.29256256	2.2472784	21	11 4.8	18.1
56461 2000 GX_{96}	13.9	X	125.38986	46.49641	225.30979	12.66240	0.1285919	0.25294597	2.4761914	21	12 12.9	17.8
56462 2000 GN_{97}	15.3	X	165.20619	185.63790	158.14795	2.57938	0.2381795	0.27087643	2.3656759	21	1 24.8	19.1
56463 2000 GD_{98}	15.0	X	81.28208	9.91724	331.00202	5.91000	0.1297475	0.26001972	2.4310759	21	—	—
56464 2000 GE_{98}	15.9	X	151.39578	8.78287	239.53560	4.72008	0.0903902	0.30377519	2.1916331	21	12 18.9	18.9
56465 2000 GS_{98}	15.7	X	286.61049	193.73483	232.45503	4.94798	0.0919135	0.29938672	2.2129980	21	10 3.8	17.8
56466 2000 GZ_{99}	16.0	X	170.96752	13.65521	216.73858	3.76992	0.1824827	0.30332172	2.1938169	21	12 10.7	19.4
56467 2000 GP_{103}	16.1	X	117.75588	200.60293	52.73305	4.61506	0.1054784	0.29934130	2.2132219	21	11 18.2	19.2
56468 2000 GO_{104}	14.9	X	145.46939	182.76600	115.09183	3.53689	0.2036135	0.25990187	2.4318108	21	—	—
56469 2000 GN_{105}	15.9	X	340.08156	202.95081	73.46720	3.45030	0.1526651	0.28357577	2.2945101	21	5 9.7	17.8
56470 2000 GH_{106}	16.0	X	250.07945	316.68706	223.63035	5.60010	0.0422359	0.30789191	2.1720536	21	—	—
56471 2000 GX_{106}	15.1	X	329.63828	263.67019	44.34783	12.98289	0.2296158	0.28380062	2.2932980	21	5 23.6	17.1
56472 2000 GB_{108}	15.8	X	64.81048	78.87315	160.52749	6.39625	0.1216083	0.28991879	2.2609197	21	8 26.4	18.2
56473 2000 GY_{108}	15.3	X	26.28824	222.67920	62.99454	7.89758	0.1650634	0.28915213	2.2649144	21	9 15.0	17.5
56474 2000 GA_{109}	16.1	X	358.31990	179.88272	114.08681	2.19357	0.1474480	0.28733593	2.2744484	21	7 20.6	17.7
56475 2000 GN_{109}	16.2	X	86.11044	125.93219	102.42894	4.26963	0.1233194	0.29148676	2.2528044	21	9 11.9	19.1
56476 2000 GU_{110}	15.0	X	262.75510	358.78310	336.28143	5.58764	0.1842963	0.28191354	2.3035206	21	4 4.8	18.6
56477 2000 GM_{111}	15.7	X	249.41854	309.34271	343.48244	6.67729	0.1988611	0.27377436	2.3489523	21	2 1.9	19.5
56478 2000 GS_{111}	16.1	X	271.59773	66.62837	22.93405	6.07346	0.0789137	0.30073761	2.2063660	21	10 18.2	18.3
56479 2000 GT_{114}	14.0	X	284.52447	278.71117	7.57792	11.38574	0.2375348	0.22931508	2.6435101	21	3 1.6	18.1
56480 2000 GU_{114}	16.0	X	22.21111	203.56352	359.79335	4.45110	0.0844876	0.28127435	2.3070091	21	4 10.4	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56481 2000 GW_{114}	14.6	X	354.32228	174.83373	136.17041	4.09046	0.1670451	0.28704857	2.2759661	21	8 10.6	16.1
56482 2000 GY_{115}	15.4	X	348.67637	193.28218	177.76608	9.41170	0.1439123	0.29912139	2.2143065	21	11 11.6	17.3
56483 2000 GY_{121}	16.1	X	56.46644	124.74253	100.12732	7.58214	0.0521003	0.28646746	2.2790430	21	7 10.6	18.5
56484 2000 GH_{124}	14.6	X	294.80648	183.70818	155.33982	7.95889	0.1449873	0.28416880	2.2913167	21	5 29.7	17.4
56485 2000 GL_{125}	14.8	X	251.93064	274.02293	140.03723	8.23527	0.0265896	0.24371542	2.5383259	21	8 1.9	18.2
56486 2000 GF_{126}	14.5	X	254.88659	163.84390	145.52055	7.36427	0.1306438	0.27377858	2.3489282	21	3 2.9	17.9
56487 2000 GR_{126}	15.0	X	44.64842	154.06161	113.65612	9.17657	0.1340211	0.28747330	2.2737238	21	9 12.9	17.5
56488 2000 GQ_{131}	15.2	X	151.04195	200.20187	127.94666	6.74641	0.1524781	0.26333619	2.4106214	21	—	—
56489 2000 GT_{131}	15.2	X	173.08079	165.25041	148.43740	7.25075	0.2779359	0.26256351	2.4153485	21	—	—
56490 2000 GD_{133}	14.8	X	102.56822	261.48579	48.12298	8.37435	0.2136191	0.25545077	2.4599781	21	—	—
56491 2000 GS_{133}	15.9	X	304.03546	161.45185	96.42836	5.34771	0.1816903	0.27531767	2.3401659	21	2 12.9	19.1
56492 2000 GH_{134}	15.3	X	228.04743	130.55505	139.65744	10.68698	0.2505183	0.26402934	2.4064006	21	—	—
56493 2000 GU_{134}	14.8	X	296.73936	176.35431	138.10631	7.06888	0.1984079	0.28223552	2.3017683	21	4 19.6	17.8
56494 2000 GA_{136}	15.2	X	316.64291	138.48650	138.59681	7.45247	0.1077237	0.27997492	2.3141418	21	4 10.1	17.9
56495 2000 GW_{137}	14.9	X	135.76859	323.98541	46.88735	5.31620	0.1003689	0.27075354	2.3663916	21	1 11.9	17.9
56496 2000 GE_{138}	16.1	X	111.16646	178.63470	36.66413	6.72440	0.0895325	0.29404236	2.2397323	21	9 21.5	19.1
56497 2000 GD_{140}	15.4	X	270.79028	286.56261	92.67585	6.19625	0.1528379	0.28943664	2.2634299	21	6 20.1	18.2
56498 2000 GU_{140}	15.9	X	13.55182	147.05525	147.34766	8.61197	0.1558854	0.28855559	2.2680348	21	8 27.3	17.5
56499 2000 GM_{143}	15.7	X	286.18770	144.61969	143.18645	6.61448	0.1692626	0.27698760	2.3307507	21	3 4.4	19.0
56500 2000 GV_{143}	15.0	X	187.44097	217.83381	116.49012	9.48664	0.2677634	0.26919383	2.3755234	21	2 3.6	19.1
56501 2000 GG_{153}	15.9	X	210.80206	135.40778	304.31773	4.29360	0.0459604	0.29090812	2.2557908	21	7 12.7	18.7
56502 2000 GY_{158}	15.1	X	326.83612	225.96594	127.17847	3.60103	0.1862928	0.24708038	2.5152271	21	8 11.2	17.3
56503 2000 GR_{159}	15.1	X	221.32010	48.85207	302.68188	5.57793	0.1591716	0.27925091	2.3181400	21	3 18.1	18.7
56504 2000 GT_{166}	15.6	X	87.96568	343.67200	40.00256	7.02259	0.1206798	0.26536762	2.3983033	21	—	—
56505 2000 GV_{171}	16.4	X	295.24535	305.82415	123.85170	4.45154	0.0319491	0.30102701	2.2049517	21	11 3.8	18.7
56506 2000 GH_{174}	15.3	X	74.23107	307.08441	22.37250	6.79572	0.1264241	0.25782848	2.4448307	21	—	—
56507 2000 GU_{178}	16.0	X	48.59261	52.60518	39.76989	6.94705	0.0817528	0.27180622	2.3602778	21	—	—
56508 2000 HG_{6}	15.6	X	117.41874	12.35894	35.50139	5.69177	0.1301319	0.27243307	2.3566558	21	2 12.0	18.5
56509 2000 HB_{7}	15.5	X	301.94062	148.47586	46.91914	7.57765	0.0626162	0.26812294	2.3818445	21	—	—
56510 2000 HT_{8}	14.9	X	255.41647	142.24323	53.88572	6.36819	0.0359529	0.26282784	2.4137288	21	—	—
56511 2000 HE_{11}	15.4	X	259.86888	123.66887	186.23386	1.63526	0.2200834	0.27434869	2.3456729	21	2 28.7	19.1
56512 2000 HH_{11}	15.7	X	26.32372	83.43290	48.83345	7.40650	0.0920128	0.27229651	2.3574437	21	1 5.9	18.3
56513 2000 HY_{12}	15.0	X	284.07191	318.53157	33.32407	4.03723	0.2310536	0.23638775	2.5905147	21	5 19.6	18.6
56514 2000 HM_{18}	14.9	X	179.72510	344.01078	36.31821	14.43379	0.1980561	0.23100752	2.6305828	21	3 29.5	19.4
56515 2000 HD_{20}	15.6	X	123.69901	296.55182	121.87196	7.43986	0.0925732	0.27322914	2.3520761	21	2 28.3	18.5
56516 2000 HE_{20}	15.3	X	127.96782	191.17513	123.46703	7.07817	0.1393124	0.25818859	2.4425569	21	—	—
56517 2000 HU_{20}	15.9	X	14.42083	154.14574	155.41888	5.42349	0.2110317	0.28976333	2.2617283	21	10 4.3	17.6
56518 2000 HZ_{20}	14.3	X	202.58893	280.13127	56.59047	13.33296	0.2720115	0.22341822	2.6898227	21	2 27.5	19.4
56519 2000 HB_{21}	15.3	X	352.21705	170.55190	127.74968	3.34601	0.1472405	0.28631158	2.2798701	21	7 13.3	17.1
56520 2000 HO_{21}	16.0	X	68.82581	180.06564	95.73339	5.06919	0.1445855	0.29395717	2.2401650	21	10 29.3	18.9
56521 2000 HE_{22}	16.4	X	349.79191	305.33988	18.06134	0.41504	0.2298392	0.28875872	2.2669711	21	8 23.4	17.4
56522 2000 HT_{24}	15.3	X	110.34081	88.51201	226.99285	5.09704	0.1182834	0.25764024	2.4460214	21	—	—
56523 2000 HX_{25}	15.5	X	100.78247	239.52608	72.15553	1.63472	0.2013596	0.25442145	2.4666086	21	—	—
56524 2000 HT_{27}	16.3	X	18.79151	274.64868	350.89307	1.92405	0.1656376	0.28631839	2.2798340	21	7 21.5	17.9
56525 2000 HY_{31}	15.4	X	277.53554	233.84852	54.26497	3.69255	0.1089779	0.27578047	2.3375471	21	3 3.2	18.6
56526 2000 HP_{35}	15.2	X	127.97462	238.00124	118.29080	7.88911	0.1394886	0.26663014	2.3907265	21	—	—
56527 2000 HF_{36}	15.1	X	139.92746	223.99730	78.69212	13.36084	0.2375832	0.25855575	2.4402440	21	—	—
56528 2000 HF_{44}	16.3	X	164.07194	132.90935	118.27344	3.82148	0.1604615	0.30608441	2.1805962	21	—	—
56529 2000 HY_{44}	15.8	X	227.92642	207.69092	115.82770	2.97318	0.1114967	0.27485216	2.3428076	21	2 22.0	19.2
56530 2000 HK_{45}	15.2	X	232.31447	172.80242	172.65957	4.63502	0.1701381	0.27825428	2.3236720	21	3 23.5	18.8
56531 2000 HF_{48}	15.4	X	124.30153	5.22652	49.85747	8.06412	0.0993424	0.27388625	2.3483125	21	2 27.9	18.4
56532 2000 HB_{50}	15.8	X	201.47014	67.47656	305.43612	0.48546	0.1044630	0.27698069	2.3307895	21	3 28.8	19.0
56533 2000 HY_{50}	15.9	X	51.20281	202.36944	52.60554	4.61880	0.1250641	0.28869336	2.2673132	21	9 1.4	18.4
56534 2000 HH_{52}	15.7	X	335.10315	91.73435	47.57060	5.41186	0.1761843	0.26710177	2.3879114	21	—	—
56535 2000 HT_{52}	15.6	X	223.03823	244.70941	55.58387	4.22386	0.2086469	0.26807644	2.3821199	21	1 20.3	19.6
56536 2000 HO_{53}	14.9	X	151.63551	160.72830	217.75182	5.36794	0.1273697	0.27025113	2.3693236	21	2 10.9	18.3
56537 2000 HQ_{53}	14.6	X	258.15542	323.65897	66.95128	5.82919	0.2293988	0.23880435	2.5730085	21	6 11.5	18.5
56538 2000 HF_{54}	15.1	X	142.71254	14.61205	228.76742	6.41209	0.0929372	0.29916650	2.2140839	21	12 2.3	18.0
56539 2000 HT_{58}	15.9	X	22.00210	296.60400	3.25129	6.36473	0.1855343	0.28994463	2.2607854	21	9 27.5	17.7
56540 2000 HC_{61}	16.3	X	198.10650	11.80033	66.54518	2.68361	0.1027035	0.28780261	2.2719890	21	6 21.4	19.5
56541 2000 HR_{61}	16.1	X	204.24272	145.02380	151.83313	2.70740	0.1312478	0.26690558	2.3890814	21	—	—
56542 2000 HJ_{63}	15.5	X	85.33052	205.65392	162.46674	1.38553	0.2011534	0.26252309	2.4155965	21	—	—
56543 2000 HT_{64}	15.2	X	95.42811	302.64222	7.58246	6.20747	0.1274668	0.25554400	2.4593797	21	12 31.9	19.0
56544 2000 HB_{65}	16.1	X	78.14867	66.64805	53.64201	7.35593	0.0472874	0.27790628	2.3256114	21	3 15.2	18.8
56545 2000 HK_{65}	15.5	X	64.80721	11.64782	26.57317	2.94029	0.1985077	0.26669883	2.3903159	21	—	—
56546 2000 HF_{66}	15.8	X	17.68993	340.32378	244.16643	3.44103	0.1042792	0.28121864	2.3073137	21	5 5.7	18.0
56547 2000 HQ_{69}	16.3	X	50.07382	92.55331	45.95474	5.24545	0.0941093	0.27731756	2.3289016	21	2 26.8	18.6
56548 2000 HZ_{74}	15.7	X	182.80274	253.76726	168.02830	6.36155	0.0447131	0.28282813	2.2985519	21	5 12.8	18.7
56549 2000 HZ_{75}	16.4	X	71.45116	87.17585	101.65333	4.96255	0.0760884	0.28458052	2.2891062	21	6 13.7	19.0
56550 2000 HZ_{77}	15.2	X	337.69083	114.24884	246.66501	5.12316	0.1805470	0.29558400	2.2319379	21	9 24.9	16.6
56551 2000 HJ_{78}	16.3	X	200.18937	221.44866	349.96935	4.85305	0.0535992	0.30519512	2.1848300	21	—	—
56552 2000 HL_{78}	15.3	X	254.00608	2.08142	328.67110	6.62733	0.1354428	0.27913782	2.3187660	21	3 25.3	18.8
56553 2000 HL_{79}	15.9	X	96.59646	255.38275	346.42136	7.25258	0.0505501	0.29451130	2.2373542	21	9 30.9	18.7
56554 2000 HF_{85}	15.6	X	43.34401	75.59101	190.54503	6.42777	0.1168755	0.28859447	2.2678311	21	8 30.4	18.0
56555 2000 HL_{85}	16.1	X	350.34810	250.30423	301.25783	3.21833	0.0163574	0.27518283	2.3409304	21	2 8.7	18.8
56556 2000 HF_{88}	16.0	X	206.22618	161.22258	141.91911	4.03714	0.2059986	0.26672188	2.3901782	21	1 9.1	19.9
56557 2000 HX_{91}	15.3	X	162.71057	237.18081	175.16792	6.87909	0.0917540	0.27960037	2.3162080	21	4 7.6	18.3
56558 2000 HK_{100}	14.9	X	26.72544	155.65983	145.63661	2.85050	0.0192741	0.19957834	2.8999718	21	9 4.7	18.6
56559 2000 JN_{3}	15.6	X	229.43540	325.83619	196.08407	25.71639	0.2299426	0.30724732	2.1750904	21	11 8.7	18.7
56560 2000 JW_{6}	14.9	X	48.68323	249.89664	128.58368	12.61774	0.2796600	0.25691029	2.4506524	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56561 Jaimenomen	15.4	X	262.90639	247.10696	69.01883	7.36655	0.1262363	0.27637542	2.3341913	21	3 23.6	18.8
56562 2000 JN_7	15.4	X	337.88741	200.67330	160.56246	13.14676	0.2054640	0.24456236	2.5324622	21	9 20.6	17.3
56563 2000 JS_8	15.1	X	7.32261	48.42616	243.88920	5.53781	0.1702987	0.28560458	2.2836311	21	8 6.9	16.8
56564 2000 JY_{10}	15.7	X	350.33724	334.25401	274.59523	6.34235	0.1046425	0.28152148	2.3056587	21	4 18.3	18.0
56565 2000 JY_{12}	14.2	X	355.84527	84.11040	260.92099	11.37754	0.2362103	0.24258635	2.5461959	21	10 3.3	16.5
56566 2000 JE_{14}	15.5	X	169.58152	217.48213	78.86646	3.53356	0.0884290	0.26232660	2.4168025	21	—	—
56567 2000 JQ_{14}	15.7	X	284.36291	152.22749	72.19811	3.65815	0.0887569	0.26879371	2.3778803	21	—	—
56568 2000 JN_{15}	15.6	X	109.01521	57.15633	85.31263	2.94994	0.0688635	0.28262037	2.2996783	21	5 30.9	18.3
56569 2000 JL_{17}	15.4	X	70.70585	124.39825	155.42577	4.11102	0.1204688	0.29395178	2.2401924	21	11 2.2	18.2
56570 2000 JA_{21}	15.0	X	131.37106	86.91789	279.94779	3.22233	0.1308980	0.26861283	2.3789476	21	1 5.0	18.0
56571 2000 JD_{22}	15.1	X	338.32226	154.26462	258.17903	3.69597	0.1036549	0.30117233	2.2042423	21	12 19.7	17.1
56572 2000 JZ_{23}	14.2	X	33.29409	349.68151	251.95283	12.61201	0.0967472	0.23949098	2.5680882	21	7 1.6	17.2
56573 2000 JD_{24}	15.3	X	14.76199	325.66037	319.25824	4.90427	0.2308180	0.28685503	2.2769897	21	8 23.5	16.7
56574 2000 JK_{24}	14.7	X	178.76281	39.03762	256.93214	10.53312	0.2531751	0.26226103	2.4172053	21	—	—
56575 2000 JX_{24}	15.8	X	344.15331	323.69559	286.20401	4.48319	0.1467556	0.28010697	2.3134144	21	4 3.1	18.2
56576 2000 JB_{25}	15.4	X	142.23932	358.82185	303.97468	6.32494	0.1265914	0.25985720	2.4320895	21	—	—
56577 2000 JE_{26}	15.8	X	45.16250	335.92436	261.16584	6.19969	0.0667243	0.28696420	2.2764122	21	7 12.0	18.2
56578 2000 JJ_{26}	14.5	X	274.11681	325.80538	12.52859	9.04459	0.1653215	0.28094422	2.3088160	21	4 23.9	17.8
56579 2000 JB_{27}	14.9	X	272.24814	359.28347	16.12819	9.93010	0.1185996	0.28658161	2.2784378	21	6 21.7	17.9
56580 2000 JG_{27}	15.1	X	332.32779	28.98675	269.58291	5.95945	0.1362598	0.28354857	2.2946568	21	5 31.6	17.2
56581 2000 JT_{27}	16.2	X	152.59801	269.31876	294.29334	2.45250	0.0782227	0.29682087	2.2257332	21	10 19.8	19.2
56582 2000 JW_{27}	15.6	X	66.91800	149.81045	359.32205	4.91125	0.0938571	0.27958544	2.3162905	21	4 8.7	17.9
56583 2000 JH_{28}	14.6	X	10.66699	285.01469	35.39771	12.62567	0.1789151	0.24368778	2.5385178	21	10 2.9	17.2
56584 2000 JQ_{29}	15.7	X	324.31944	307.65071	244.18655	5.53770	0.0578005	0.27062545	2.3671382	21	—	—
56585 2000 JZ_{29}	15.1	X	208.80499	90.81949	302.24813	5.07461	0.1276478	0.28087436	2.3091988	21	4 29.8	18.6
56586 2000 JK_{31}	15.1	X	226.62471	265.35585	327.37650	1.37242	0.1614284	0.26238434	2.4164480	21	—	—
56587 2000 JL_{31}	15.1	X	324.88077	248.85213	40.65531	8.89113	0.1136945	0.28133273	2.3066899	21	5 6.9	17.3
56588 2000 JS_{32}	16.2	X	41.26633	329.43559	267.72171	4.63977	0.1239585	0.28543006	2.2845618	21	7 14.2	18.4
56589 2000 JH_{33}	14.1	X	145.06158	322.94347	38.56590	12.76222	0.1889354	0.21876473	2.7278334	21	2 4.8	18.5
56590 2000 JY_{35}	15.7	X	46.63018	192.25440	59.41283	0.42535	0.0466065	0.28761215	2.2729919	21	8 4.0	17.9
56591 2000 JP_{37}	14.7	X	110.12024	105.62268	257.11674	4.33251	0.1809173	0.26043529	2.4284891	21	—	—
56592 2000 JF_{38}	13.9	X	157.31598	133.54181	233.08205	9.26384	0.2509945	0.22093243	2.7099612	21	2 18.1	18.6
56593 2000 JS_{38}	14.1	X	37.98684	306.74805	49.50669	15.74590	0.1581264	0.20468819	2.8515054	21	12 16.6	18.0
56594 2000 JL_{40}	15.0	X	39.56664	344.68107	313.78332	3.23233	0.1876987	0.29050376	2.2578835	21	10 24.1	17.4
56595 2000 JX_{40}	15.4	X	69.96293	272.39302	118.67189	2.04854	0.1901418	0.26173955	2.4204149	21	—	—
56596 2000 JG_{43}	15.9	X	151.03990	47.76369	57.16964	9.21259	0.1164697	0.28481138	2.2878690	21	6 4.8	19.2
56597 2000 JO_{44}	15.9	X	305.60945	190.59618	59.33352	7.37503	0.0693778	0.27460603	2.3442072	21	2 22.9	18.9
56598 2000 JY_{46}	15.4	X	267.11097	280.31481	343.51616	6.90674	0.1825945	0.27082425	2.3659797	21	1 14.3	19.2
56599 2000 JW_{48}	15.3	X	348.86991	312.08719	295.66729	6.40020	0.0831533	0.28002365	2.3138733	21	4 16.1	17.8
56600 2000 JK_{50}	15.1	X	149.32267	290.11549	23.87515	9.43930	0.2242497	0.25964529	2.4334126	21	—	—
56601 2000 JS_{50}	15.5	X	179.91634	268.06237	49.22437	2.87211	0.2155684	0.26414883	2.4056748	21	1 5.5	19.4
56602 2000 JQ_{51}	15.4	X	134.94639	289.71499	320.51591	3.06138	0.0857223	0.29880542	2.2158672	21	12 1.9	18.6
56603 2000 JZ_{52}	15.1	X	107.83777	193.50113	244.52395	6.36395	0.0774227	0.27313217	2.3526328	21	2 25.3	18.0
56604 2000 JN_{56}	15.4	X	359.11538	356.35848	219.75202	6.05139	0.0534162	0.27689632	2.3312629	21	3 22.3	18.0
56605 2000 JG_{57}	14.9	X	310.25538	138.38221	177.20138	4.16939	0.1619071	0.23402993	2.6078851	21	5 18.9	18.0
56606 2000 JF_{58}	14.5	X	74.76699	222.49314	97.93324	7.17291	0.2185206	0.29652288	2.2272240	21	—	—
56607 2000 JL_{58}	15.1	X	116.25621	187.04967	108.43024	4.35020	0.1753115	0.29974738	2.2112225	21	—	—
56608 2000 JS_{58}	13.9	X	194.12250	235.94500	74.04375	15.14922	0.3053865	0.21588434	2.7520434	21	1 18.9	19.1
56609 2000 JA_{60}	15.1	X	252.62505	326.24437	7.25494	6.47760	0.1344003	0.27801845	2.3249858	21	3 30.0	18.3
56610 2000 JZ_{60}	14.8	X	152.16921	67.26474	267.47224	5.60488	0.1115491	0.26447382	2.4037036	21	—	—
56611 2000 JH_{61}	15.3	X	181.97562	50.50853	59.51640	6.37918	0.1007020	0.28734801	2.2743847	21	7 18.3	18.5
56612 2000 JY_{61}	14.6	X	253.07248	344.56177	254.06065	6.41418	0.1718998	0.26506518	2.4001272	21	—	—
56613 2000 JX_{62}	14.2	X	309.02949	47.59134	295.80374	6.56630	0.2004851	0.23947883	2.5681751	21	6 18.4	17.0
56614 2000 JQ_{63}	15.5	X	230.69101	175.35398	5.73698	4.26199	0.0413317	0.30338602	2.1935069	21	—	—
56615 2000 JL_{69}	14.8	X	338.75491	200.95678	109.72537	22.87229	0.0153968	0.23930377	2.5694274	21	7 13.3	18.1
56616 2000 JM_{70}	14.6	X	114.63746	354.79066	299.55601	11.43751	0.1694116	0.25740408	2.4475173	21	—	—
56617 2000 JZ_{72}	15.6	X	334.64145	22.26852	123.46017	7.14874	0.0580688	0.26559846	2.3969134	21	—	—
56618 2000 JC_{73}	14.9	X	21.04349	237.31993	80.16089	15.94059	0.1493278	0.24422376	2.5348024	21	10 18.5	18.0
56619 2000 JE_{73}	15.6	X	104.11386	329.71202	136.29610	7.04491	0.0694437	0.27688388	2.3313328	21	4 4.9	18.4
56620 2000 JL_{73}	15.6	X	336.65226	4.93025	267.51172	5.29784	0.0832764	0.28459201	2.2890446	21	5 4.3	18.1
56621 2000 JB_{74}	16.1	X	44.68835	16.48859	204.81046	7.51980	0.0981191	0.28428763	2.2906781	21	6 21.5	18.5
56622 2000 JR_{75}	15.3	X	286.40957	190.51561	100.23926	6.38508	0.1412644	0.27570261	2.3379872	21	3 14.5	18.5
56623 2000 JC_{76}	16.6	X	125.40443	111.03236	120.14834	2.64746	0.1060150	0.29569672	2.2313706	21	10 29.1	19.7
56624 2000 JQ_{76}	16.4	X	84.72486	297.02827	356.29995	5.27467	0.1614179	0.29760460	2.2218239	21	12 8.4	19.7
56625 2000 JW_{77}	15.2	X	115.53516	327.91144	272.64354	6.19191	0.0958715	0.29576797	2.2310123	21	10 26.5	18.3
56626 2000 JH_{78}	15.3	X	48.97187	285.87583	329.29688	4.33251	0.1620775	0.28765512	2.2727656	21	9 1.2	17.7
56627 2000 JF_{84}	15.5	X	272.60827	205.37386	74.30439	8.82967	0.0688955	0.27398645	2.3477400	21	2 21.3	18.8
56628 2000 JG_{84}	15.9	X	80.83785	36.80945	110.87781	7.11145	0.1063639	0.28093480	2.3088676	21	5 5.9	18.6
56629 2000 KV	15.8	X	173.21862	127.10829	165.05932	1.19879	0.1627124	0.26051517	2.4279926	21	—	—
56630 2000 KP_2	14.1	X	249.53955	162.69819	200.86031	28.41724	0.1152945	0.23235734	2.6203851	21	5 11.8	18.2
56631 2000 KV_2	14.4	X	8.43183	179.09228	127.92457	31.11389	0.1438286	0.23856093	2.5747585	21	9 2.0	17.3
56632 2000 KE_7	16.2	X	45.21403	355.64133	140.39162	3.29104	0.1121991	0.27334796	2.3513944	21	2 12.9	18.4
56633 2000 KY_8	16.5	X	134.82359	111.46427	265.88771	0.56324	0.0537228	0.26945142	2.3740092	21	1 11.6	19.4
56634 2000 KZ_{11}	15.1	X	256.30050	154.12251	220.62563	8.91994	0.1855064	0.23672524	2.5880520	21	5 25.6	19.1
56635 2000 KR_{12}	15.7	X	87.64205	330.88691	56.55583	2.33341	0.1923857	0.26284679	2.4136128	21	—	—
56636 2000 KA_{14}	15.1	X	85.55819	61.98691	63.52729	13.65137	0.1140997	0.23168705	2.6254366	21	4 20.3	18.5
56637 2000 KG_{14}	14.9	X	306.69717	180.08531	238.34602	5.18463	0.0517137	0.20339955	2.8635366	21	10 14.8	18.6
56638 2000 KN_{15}	15.5	X	284.10724	157.68008	86.62931	3.44639	0.1518276	0.27059619	2.3673089	21	1 7.8	18.8
56639 2000 KE_{19}	15.6	X	64.53609	242.28320	247.70796	5.70803	0.0808212	0.27502463	2.3418280	21	3 4.3	18.3
56640 2000 KZ_{19}	15.1	X	357.54004	51.70410	298.60682	1.17820	0.1687099	0.24448051	2.5330274	21	10 14.8	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56641 2000 KN_{27}	14.8	X	177.43367	349.75805	77.83595	3.19737	0.1114711	0.27983283	2.3149251	21	5 15.4	18.2
56642 2000 KU_{29}	15.2	X	29.43061	346.18309	244.19968	6.17476	0.0674762	0.28187686	2.3037204	21	6 5.2	17.3
56643 2000 KY_{29}	15.3	X	346.48802	49.28862	245.74208	5.20699	0.1431063	0.28296886	2.2977898	21	6 24.3	17.2
56644 2000 KL_{30}	14.6	X	158.70104	197.62492	245.65612	6.22216	0.0750618	0.27926948	2.3180372	21	5 12.1	17.7
56645 2000 KV_{32}	14.7	X	273.54405	237.74230	77.95552	7.17742	0.1606757	0.27522416	2.3406960	21	3 31.1	18.1
56646 2000 KW_{32}	15.1	X	93.09926	156.67036	78.85616	7.03031	0.0616560	0.29007780	2.2600934	21	9 24.6	18.0
56647 2000 KG_{34}	15.5	X	88.14257	236.01845	157.23214	6.72649	0.1369580	0.26390896	2.4071323	21	—	—
56648 2000 KH_{34}	15.0	X	263.25884	260.65538	93.90331	10.47796	0.0848316	0.23481892	2.6020401	21	5 21.2	18.7
56649 2000 KD_{42}	15.2	X	1.14207	69.62526	140.43146	5.57924	0.1430210	0.27599756	2.3363212	21	3 11.0	17.2
56650 2000 KE_{42}	15.2	X	81.21615	187.86267	147.94682	15.32187	0.1454717	0.25352939	2.4723911	21	—	—
56651 2000 KH_{46}	16.3	X	92.21273	103.02107	161.01923	5.29122	0.1367740	0.29431447	2.2383516	21	11 8.1	19.4
56652 2000 KJ_{48}	15.2	X	80.41168	41.61818	205.94912	4.75779	0.1145398	0.29009196	2.2600199	21	9 26.9	18.0
56653 2000 KS_{48}	15.9	X	323.05816	40.21245	239.29480	6.04489	0.1245366	0.27842183	2.3227396	21	4 16.1	18.3
56654 2000 KU_{50}	14.7	X	309.86761	224.05976	64.30282	6.68393	0.1287631	0.27748333	2.3279740	21	4 12.4	17.4
56655 2000 KZ_{51}	16.3	X	20.58727	182.94996	22.56038	5.99195	0.0954585	0.27983584	2.3149085	21	4 11.9	18.4
56656 2000 KW_{52}	15.6	X	325.97858	325.05461	189.20616	4.14733	0.0973683	0.26683613	2.3894959	21	—	—
56657 2000 KY_{52}	16.1	X	179.05185	46.59175	147.94697	5.12110	0.0992080	0.29905444	2.2146370	21	11 9.4	19.2
56658 2000 KJ_{55}	15.7	X	171.82455	128.80994	90.11733	4.31351	0.0997611	0.29972446	2.2113352	21	12 2.1	18.5
56659 2000 KU_{55}	16.5	X	6.96653	186.93084	98.97963	4.35209	0.1820501	0.28456038	2.2892142	21	7 30.3	17.9
56660 2000 KO_{56}	15.2	X	72.57119	337.13926	215.48114	3.29704	0.0637349	0.28283548	2.2985121	21	6 18.9	17.7
56661 2000 KQ_{56}	14.4	X	318.30943	207.43248	139.25784	1.81759	0.2409065	0.19063905	2.9899331	21	7 3.6	17.8
56662 2000 KY_{56}	14.4	X	40.04782	200.68400	133.79486	3.75668	0.1714292	0.24672701	2.5176282	21	12 4.6	17.5
56663 2000 KF_{60}	15.4	X	83.21653	276.75337	88.62910	7.50291	0.1613565	0.25883614	2.4384813	21	—	—
56664 2000 KN_{60}	16.0	X	355.99294	34.25505	182.47150	6.30177	0.0545492	0.27682228	2.3316786	21	3 19.9	18.4
56665 2000 KJ_{62}	14.7	X	327.73763	231.09535	76.17497	27.92465	0.1018169	0.23739567	2.5831771	21	6 11.8	17.7
56666 2000 KQ_{64}	15.7	X	5.42121	9.07754	179.60591	4.00162	0.0650680	0.27569248	2.3380445	21	2 21.1	18.3
56667 2000 KF_{67}	15.0	X	320.08605	87.47882	183.49267	21.81426	0.1822796	0.27446949	2.3449846	21	3 22.0	17.6
56668 2000 KE_{69}	15.7	X	165.89352	191.68382	163.14169	7.02121	0.1376852	0.26804236	2.3823218	21	1 29.8	19.1
56669 2000 KV_{71}	14.0	X	341.14205	224.07305	132.79189	14.22530	0.3069664	0.19653202	2.9298620	21	9 11.6	16.2
56670 2000 KW_{74}	15.4	X	134.17654	252.69606	99.05700	3.92495	0.1319155	0.26397142	2.4067526	21	—	—
56671 2000 KL_{75}	15.8	X	186.54204	187.72550	95.80863	7.02104	0.1228060	0.26215243	2.4178728	21	—	—
56672 2000 KP_{76}	15.8	X	342.62753	77.62349	150.22587	6.98333	0.0626428	0.27628152	2.3347201	21	3 15.9	18.5
56673 2000 KT_{76}	15.7	X	285.65869	198.57197	113.77414	5.27243	0.1493962	0.27766306	2.3269692	21	4 9.9	18.8
56674 2000 KS_{77}	15.4	X	295.18190	33.18640	145.08917	8.54036	0.0417272	0.26354222	2.4093649	21	—	—
56675 2000 KM_{78}	15.9	X	263.82947	87.61750	179.72928	6.43803	0.1321023	0.26959207	2.3731834	21	1 16.5	19.4
56676 2000 LC	16.3	X	300.30312	33.10208	168.81360	2.36787	0.1341537	0.26797617	2.3827141	21	—	—
56677 2000 LG_1	14.9	X	271.71944	172.48175	112.06888	7.76793	0.1354830	0.27195708	2.3594049	21	2 17.7	18.3
56678 Alicewessen	14.3	X	249.86789	80.34655	296.58476	8.76625	0.1147097	0.18338629	3.0682552	21	5 30.0	19.0
56679 2000 LB_8	15.2	X	66.31979	317.97137	271.54977	5.14760	0.1101348	0.28631054	2.2798756	21	8 10.1	17.9
56680 2000 LM_8	14.0	X	19.46781	252.30668	87.66909	12.17189	0.2285311	0.24186040	2.5512883	21	11 22.1	16.8
56681 2000 LY_8	15.8	X	356.39072	71.89027	200.99215	2.33562	0.1056081	0.28204062	2.3028286	21	6 11.2	17.9
56682 2000 LA_9	15.2	X	11.11907	89.11536	122.41471	4.46574	0.1204959	0.27752651	2.3277325	21	4 5.0	17.4
56683 2000 LC_9	15.5	X	213.77094	124.07635	190.19690	1.98963	0.2235699	0.26661712	2.3908043	21	1 28.5	19.5
56684 2000 LV_{10}	15.0	X	225.33518	181.60582	153.31539	12.61608	0.1957801	0.22338481	2.6900909	21	3 9.8	19.4
56685 2000 LE_{11}	14.3	X	309.03780	258.94263	140.07145	12.65712	0.1826542	0.24324890	2.5415703	21	9 17.6	16.8
56686 2000 LB_{12}	14.3	X	331.65040	80.03474	223.87288	13.45583	0.1265908	0.23238343	2.6201890	21	6 11.7	17.3
56687 2000 LE_{12}	13.9	X	13.90749	65.72684	243.82337	12.56942	0.0472197	0.23724781	2.5842503	21	8 27.1	17.4
56688 2000 LM_{12}	14.4	X	295.44140	108.38284	222.02150	7.11098	0.2414827	0.23174185	2.6250227	21	5 4.5	18.0
56689 2000 LD_{14}	14.2	X	319.37214	42.43780	237.82675	11.73048	0.1077049	0.22883481	2.6472075	21	4 19.6	17.5
56690 2000 LZ_{14}	15.4	X	326.95233	139.66155	134.83756	5.45849	0.0582593	0.27941666	2.3172231	21	4 29.6	18.0
56691 2000 LW_{16}	15.0	X	48.46349	136.83895	104.94744	15.35717	0.0532986	0.23877617	2.5732109	21	7 22.8	18.2
56692 2000 LK_{20}	13.3	X	317.41926	111.39907	251.66380	12.57902	0.1095592	0.23618648	2.5919862	21	8 9.3	16.6
56693 2000 LY_{20}	14.0	X	53.20445	96.89030	248.12239	9.49075	0.0870386	0.24662217	2.5183416	21	12 21.5	17.4
56694 2000 LC_{24}	14.5	X	254.44175	180.30199	169.32109	15.01859	0.2084813	0.22889526	2.6467415	21	4 22.7	18.9
56695 2000 LG_{26}	14.7	X	58.54437	130.03916	163.33624	12.73037	0.2842592	0.24344959	2.5401733	21	11 21.1	18.7
56696 2000 LQ_{26}	13.9	X	190.72692	189.82582	148.12316	6.76103	0.1296118	0.26248217	2.4158475	21	2 3.8	17.6
56697 2000 LO_{27}	14.3	X	41.04234	90.24663	229.77483	2.99638	0.1116321	0.24088881	2.5581439	21	11 5.9	17.4
56698 2000 LR_{27}	14.5	X	5.52938	205.95728	132.14929	14.33726	0.0958321	0.23782614	2.5800591	21	10 10.6	17.7
56699 2000 LJ_{28}	14.9	X	288.34627	23.50040	283.35950	6.89691	0.2137756	0.22475157	2.6791738	21	3 27.2	18.9
56700 2000 LL_{28}	13.8	X	357.22916	292.79234	311.59223	13.90130	0.1029113	0.22658004	2.6647406	21	4 27.2	17.2
56701 2000 LM_{28}	14.6	X	209.90490	29.72222	300.14080	7.78303	0.1185660	0.21643622	2.7473633	21	2 16.9	18.9
56702 2000 LQ_{28}	13.5	X	256.03011	36.78409	313.55574	15.79208	0.2546212	0.17787189	3.1313469	21	4 13.2	19.0
56703 2000 LT_{30}	13.8	X	320.60680	21.83994	260.88254	9.86612	0.1786691	0.22724848	2.6595126	21	4 11.9	17.2
56704 2000 LC_{31}	15.1	X	184.77345	185.15327	96.84234	9.41149	0.0627423	0.26217523	2.4177326	21	—	—
56705 2000 LL_{33}	14.4	X	339.94452	164.04395	155.94806	15.76629	0.1920971	0.23265999	2.6181122	21	7 15.8	17.0
56706 2000 LD_{36}	15.3	X	262.40360	165.47062	40.34040	7.12155	0.0215241	0.26301823	2.4125638	21	—	—
56707 2000 LY_{36}	14.6	X	44.33223	155.01577	164.51205	15.83901	0.1655056	0.24604377	2.5222868	21	11 22.6	18.2
56708 2000 MZ	15.2	X	209.06333	14.96394	279.52817	6.98249	0.1061673	0.26392552	2.4070316	21	—	—
56709 2000 MY_1	14.5	X	114.86944	287.89958	97.85377	8.65432	0.1794307	0.21261729	2.7801635	21	1 28.6	18.3
56710 2000 MN_2	15.4	X	98.13953	183.31134	94.34657	3.32075	0.1172183	0.24608903	2.5219776	21	11 22.1	19.0
56711 2000 MO_2	14.1	X	242.44817	231.99967	104.53111	13.87528	0.1942825	0.22328681	2.6908780	21	3 31.9	18.7
56712 2000 MQ_2	16.0	X	239.07555	315.65319	316.41045	2.02084	0.1581819	0.26393780	2.4069569	21	—	—
56713 2000 MC_3	14.8	X	328.04007	237.60490	131.86035	3.09551	0.2052214	0.24148784	2.5539117	21	9 7.9	16.8
56714 2000 MK_3	14.2	X	306.70143	96.50718	256.73776	9.94437	0.0933650	0.18648511	3.0341702	21	7 13.7	18.3
56715 2000 MT_3	15.7	X	2.18193	331.69644	304.32543	1.30538	0.2311030	0.28225444	2.3016654	21	6 28.3	16.6
56716 2000 MZ_3	15.2	X	70.14851	196.36367	97.74585	7.99403	0.1918318	0.29235774	2.2483279	21	11 28.6	18.4
56717 2000 MS_4	14.7	X	295.60894	191.14592	87.79569	14.63777	0.1604178	0.22577240	2.6710918	21	3 18.9	18.7
56718 2000 MU_4	14.9	X	83.02686	300.69617	350.20888	2.56524	0.1461650	0.24533127	2.5271680	21	11 24.2	18.5
56719 2000 MA_6	15.6	X	88.22949	146.19757	91.03909	8.16158	0.0932527	0.29015666	2.2596839	21	9 25.5	18.6
56720 2000 NK_9	13.8	X	3.49638	19.84526	323.47809	10.15426	0.1462740	0.19007295	2.9958669	21	9 29.8	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56721 2000 NY_{11}	15.5	X	291.16899	64.36192	156.81988	5.82694	0.0554323	0.26926199	2.3751225	21	—	—
56722 2000 NH_{12}	14.5	X	93.43427	93.44079	210.77198	14.45948	0.1636307	0.24608678	2.5219929	21	12 22.1	18.7
56723 2000 NK_{12}	15.3	X	51.91163	114.08478	182.65683	14.46326	0.1465500	0.24050850	2.5608399	21	10 28.6	18.7
56724 2000 NQ_{12}	15.0	X	272.86270	343.49929	210.35988	10.33708	0.1366335	0.25696284	2.4503183	21	—	—
56725 2000 NY_{12}	15.2	X	36.90480	349.77460	258.78216	4.36574	0.1180811	0.23274204	2.6174968	21	7 21.3	18.2
56726 2000 NA_{13}	14.1	X	229.22909	122.67786	288.02748	8.44910	0.0864667	0.18194204	3.0844709	21	6 22.7	18.8
56727 2000 NU_{13}	14.1	X	219.50388	273.24425	143.68692	14.84738	0.0692859	0.18138156	3.0908218	21	6 21.9	18.9
56728 2000 NZ_{13}	14.5	X	18.59738	27.58428	308.26703	8.70197	0.0719314	0.19215431	2.9741941	21	10 7.6	18.5
56729 2000 NM_{14}	14.6	X	288.82544	268.34485	134.15596	10.02753	0.0275854	0.18902181	3.0069632	21	9 4.2	18.7
56730 2000 NK_{15}	13.8	X	29.15216	37.13843	319.47654	11.19513	0.0702670	0.19613068	2.9338575	21	11 19.8	18.0
56731 2000 NP_{16}	15.3	X	276.11344	287.97769	346.37834	4.61293	0.1257319	0.22008745	2.7168929	21	2 17.2	19.2
56732 2000 NQ_{16}	15.0	X	264.58728	260.17954	34.50226	3.65592	0.1398917	0.22079447	2.7110899	21	3 1.3	19.1
56733 2000 NK_{17}	13.9	X	217.50530	346.68095	39.61819	5.64818	0.2018247	0.17623516	3.1507045	21	5 4.9	19.3
56734 2000 NM_{17}	13.5	X	263.28863	323.45357	334.64712	16.14597	0.1344277	0.17412951	3.1760534	21	3 6.5	18.5
56735 2000 NB_{18}	15.1	X	75.45472	252.32335	26.44329	3.83313	0.1724518	0.24220490	2.5488685	21	11 3.6	18.6
56736 2000 NX_{19}	15.5	X	97.31981	50.05063	204.83675	2.36025	0.1211690	0.24163181	2.5528971	21	10 22.9	19.3
56737 2000 NS_{20}	14.8	X	249.75456	132.01436	143.81387	11.83348	0.1152516	0.21617154	2.7496054	21	1 23.2	19.1
56738 2000 NV_{20}	15.0	X	143.09241	313.48037	143.07651	10.90263	0.0194473	0.22483022	2.6785490	21	5 13.1	18.9
56739 2000 NG_{21}	13.9	X	294.86144	31.24298	268.67092	12.26088	0.1655702	0.22465921	2.6799081	21	3 30.2	17.9
56740 2000 NC_{23}	14.3	X	278.59082	293.24649	137.60166	27.71657	0.0351795	0.23855322	2.5748140	21	10 7.8	18.2
56741 2000 ND_{24}	14.6	X	323.93196	227.54420	141.00451	2.08573	0.1268548	0.18984376	2.9982775	21	8 29.3	18.1
56742 2000 NB_{25}	13.8	X	328.27911	68.96390	304.12882	8.43390	0.1310241	0.19086006	2.9876244	21	9 7.8	17.4
56743 2000 ND_{26}	14.7	X	306.84881	44.54916	289.21337	11.01892	0.0696493	0.23169375	2.6253860	21	6 22.7	18.0
56744 2000 NN_{26}	14.0	X	349.32106	27.61098	293.93949	8.74944	0.0897917	0.18783296	3.0196377	21	8 7.7	17.7
56745 2000 NU_{26}	14.0	X	277.23152	67.01409	305.86218	8.24373	0.1115196	0.18407013	3.0606512	21	6 28.3	18.3
56746 2000 OO_{2}	14.8	X	278.16765	154.47953	155.89637	15.36670	0.1059669	0.22491436	2.6778809	21	4 10.9	18.7
56747 2000 OD_{4}	13.8	X	275.42995	101.66715	278.08685	8.61496	0.1207343	0.18356527	3.0662604	21	7 2.9	18.1
56748 2000 OF_{4}	15.4	X	15.67748	138.43373	176.43237	9.64165	0.2136447	0.23725409	2.5842047	21	10 5.1	17.7
56749 2000 OJ_{4}	14.1	X	325.38420	30.22886	270.98520	9.33850	0.0879548	0.18193658	3.0845326	21	6 4.6	18.2
56750 2000 OT_{4}	14.5	X	57.12341	305.11831	298.16740	12.44821	0.1641470	0.23457705	2.6038285	21	8 19.8	17.8
56751 2000 OU_{4}	14.2	X	250.38723	174.80365	174.69164	9.29921	0.1006934	0.17735929	3.1373773	21	5 1.4	18.9
56752 2000 OA_{5}	13.6	X	231.24541	77.21550	286.86253	12.69072	0.1925262	0.17559751	3.1583274	21	4 15.6	19.1
56753 2000 OG_{6}	14.6	X	64.40476	76.67090	216.27842	6.31659	0.1585365	0.24302265	2.5431475	21	11 8.3	18.1
56754 2000 OP_{10}	15.5	X	72.81616	43.83921	255.45071	1.13102	0.1735583	0.24516742	2.5282938	21	11 27.5	19.1
56755 2000 OT_{12}	15.7	X	228.55334	318.53504	317.63852	1.82062	0.1603184	0.26288205	2.4133969	21	—	—
56756 2000 OW_{14}	14.0	X	303.75546	322.93537	302.92142	10.52186	0.0259462	0.22310965	2.6923022	21	3 18.8	17.8
56757 2000 OQ_{17}	14.9	X	31.67784	160.09677	119.68124	4.69894	0.2233527	0.23678232	2.5876361	21	9 16.2	17.6
56758 2000 OU_{17}	14.8	X	309.38327	358.18382	316.95809	12.96723	0.1889019	0.22918220	2.6445318	21	5 6.3	18.4
56759 2000 OU_{18}	15.0	X	272.59351	170.81429	126.23263	3.27491	0.1846381	0.22347590	2.6893598	21	3 6.9	19.2
56760 2000 OY_{18}	14.5	X	138.79768	160.82162	317.09158	14.44196	0.0854193	0.22816404	2.6523933	21	6 7.5	18.6
56761 2000 OH_{19}	14.9	X	174.65545	45.14516	260.42295	4.39779	0.1892398	0.25901808	2.4373393	21	—	—
56762 2000 OB_{23}	14.7	X	2.74853	218.66351	100.00240	4.47315	0.1979108	0.23790855	2.5794633	21	9 11.9	17.0
56763 2000 OC_{23}	14.9	X	296.25729	132.56306	98.79747	9.45576	0.2230378	0.26812346	2.3818414	21	—	—
56764 2000 ON_{24}	13.6	X	227.97991	17.66242	315.22213	14.00597	0.1487019	0.17471046	3.1690089	21	3 9.7	18.8
56765 2000 OD_{25}	14.9	X	227.52678	248.94076	48.18001	3.21717	0.1560979	0.21736173	2.7395590	21	1 27.7	19.3
56766 2000 OK_{25}	14.3	X	152.17133	250.40811	112.29070	14.08766	0.1804459	0.21411652	2.7671706	21	2 9.7	18.7
56767 2000 OP_{26}	14.8	X	60.95988	212.58884	84.25690	6.15522	0.1594426	0.24213578	2.5493536	21	11 10.5	18.3
56768 2000 OS_{27}	13.0	X	266.31955	3.91383	320.78121	14.66636	0.2061847	0.17732488	3.1377832	21	3 28.5	18.1
56769 2000 OE_{28}	14.2	X	333.41798	132.55133	154.86796	13.85397	0.1589583	0.22840081	2.6505599	21	5 21.9	17.4
56770 2000 OA_{30}	15.3	X	174.72740	75.19908	192.74795	7.06872	0.1124890	0.25392706	2.4698091	21	—	—
56771 2000 OS_{30}	14.9	X	132.13994	145.66907	222.90421	7.85430	0.0780391	0.21203117	2.7852846	21	1 11.5	18.9
56772 2000 OW_{30}	14.3	X	254.59527	204.51901	157.59346	11.09352	0.2114431	0.17977640	3.1091923	21	5 10.8	19.4
56773 2000 OO_{35}	13.9	X	334.05223	254.13547	138.23573	11.66787	0.1216725	0.18989634	2.9977240	21	10 23.1	17.6
56774 2000 OH_{37}	13.9	X	4.43776	150.37889	195.38948	9.61833	0.0927920	0.19192692	2.9765428	21	10 5.6	17.4
56775 2000 OU_{37}	14.9	X	358.36633	133.57658	177.60138	13.72868	0.1845925	0.23533143	2.5982609	21	8 13.4	17.5
56776 2000 OQ_{38}	14.9	X	79.75916	84.35807	191.72679	13.31762	0.1537824	0.24209588	2.5496337	21	11 4.9	18.6
56777 2000 OC_{39}	14.2	X	247.13213	138.87033	179.92322	13.64056	0.3009373	0.22065650	2.7122199	21	2 28.8	19.1
56778 2000 OM_{39}	14.4	X	24.73596	118.97488	191.41357	9.44621	0.2063001	0.23795698	2.5791133	21	10 13.9	16.9
56779 2000 OH_{41}	15.0	X	54.33459	7.92055	214.43750	12.27391	0.1052363	0.23210328	2.6222969	21	7 8.6	18.4
56780 2000 OJ_{43}	14.7	X	32.02086	83.92498	172.58782	14.46155	0.1408729	0.23198201	2.6232107	21	7 26.0	17.8
56781 2000 OT_{43}	13.5	X	226.42445	52.52581	312.83174	13.82185	0.2159676	0.17427426	3.1742945	21	4 10.4	19.1
56782 2000 OC_{46}	14.7	X	332.16684	76.58424	225.30282	8.56901	0.1378255	0.22975364	2.6401450	21	6 8.9	17.6
56783 2000 OG_{51}	14.5	X	255.21279	17.20447	256.75916	11.66856	0.1163796	0.21546103	2.7556469	21	1 23.8	18.9
56784 2000 OH_{53}	13.3	X	280.98362	134.12324	279.26767	8.84938	0.1162651	0.18514881	3.0487521	21	8 20.1	17.6
56785 2000 OS_{53}	14.3	X	70.03438	25.68988	274.36465	10.87455	0.2800927	0.24193078	2.5507935	21	12 6.3	18.3
56786 2000 OX_{53}	15.1	X	110.84553	287.81438	314.25765	13.28662	0.0580538	0.24195861	2.5505979	21	10 8.1	19.0
56787 2000 OZ_{53}	14.7	X	295.20425	62.75437	322.64222	8.68174	0.0999423	0.18830843	3.0145526	21	8 10.1	18.6
56788 2000 OA_{54}	14.1	X	280.86320	92.05912	317.25641	11.88315	0.1837566	0.18781899	3.0197874	21	8 8.3	18.1
56789 2000 OU_{54}	14.6	X	299.52765	47.59277	301.23961	2.31571	0.1181999	0.18526561	3.0474705	21	6 25.5	18.4
56790 2000 OZ_{55}	14.7	X	117.92529	128.25565	299.12922	4.58144	0.0548837	0.21813996	2.7330394	21	3 3.9	18.5
56791 2000 OH_{56}	14.9	X	235.48990	149.49479	115.42472	11.76075	0.1150373	0.21342795	2.7731191	21	—	—
56792 2000 OP_{56}	15.6	X	244.30305	167.19202	86.28355	3.83711	0.1633426	0.26122184	2.4236118	21	—	—
56793 2000 OB_{60}	15.0	X	0.53356	96.15563	148.16277	15.18713	0.0782223	0.22669598	2.6638320	21	5 16.2	18.5
56794 2000 OO_{60}	13.9	X	179.70252	74.29727	321.42263	5.38807	0.1482221	0.17282464	3.1920200	21	4 12.6	19.2
56795 2000 OE_{67}	15.7	X	231.16744	197.34750	278.64067	0.57220	0.0828762	0.19119017	2.9841846	21	9 15.5	19.9
56796 2000 PT	14.9	X	285.91906	91.96680	278.56825	4.06024	0.0530545	0.23402518	2.6079204	21	7 15.3	18.0
56797 2000 PC_{2}	15.2	X	225.50447	334.05712	337.00399	6.15174	0.1649761	0.26406378	2.4061913	21	2 5.1	18.9
56798 2000 PW_{3}	14.9	X	330.07313	19.33270	332.34094	9.89238	0.0546232	0.23605210	2.5929699	21	8 25.1	17.8
56799 2000 PN_{4}	15.3	X	303.78162	125.55946	169.76535	5.26503	0.1743563	0.22682853	2.6627941	21	4 10.6	18.7
56800 2000 PO_{4}	14.5	X	311.38851	156.11472	166.06863	15.28661	0.1459393	0.23159416	2.6261386	21	6 3.5	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56801 2000 PF_9	14.2	X	134.39734	358.56160	81.06152	25.21272	0.1279162	0.17398260	3.1778410	21	5 3.6	19.4
56802 2000 PZ_9	15.3	X	49.39710	265.10979	20.01016	10.09147	0.2066181	0.23799117	2.5788662	21	10 16.0	18.5
56803 2000 PA_{11}	15.2	X	216.83552	151.90190	123.00078	13.99350	0.2046093	0.25845486	2.4408790	21	—	—
56804 2000 PP_{12}	14.2	X	322.16354	169.13245	170.95516	10.52140	0.1052574	0.18368128	3.0649692	21	7 18.5	18.2
56805 2000 PR_{12}	14.4	X	92.03463	286.54139	307.74079	9.73309	0.1096131	0.18793405	3.0185548	21	9 10.2	19.0
56806 2000 PM_{14}	15.8	X	318.07178	55.94730	215.03496	2.25075	0.0580415	0.22597530	2.6694927	21	4 14.5	19.3
56807 2000 PR_{14}	15.9	X	302.47431	196.60206	143.57670	3.49608	0.1265101	0.23154539	2.6265074	21	6 15.9	19.0
56808 2000 PO_{15}	15.1	X	103.30396	316.31387	359.78407	1.62628	0.0663672	0.20292052	2.8680414	21	—	—
56809 2000 PE_{16}	14.2	X	230.51335	219.32745	179.30976	1.72334	0.1599507	0.18085308	3.0968400	21	6 2.9	19.2
56810 2000 PU_{16}	14.9	X	5.05679	192.12841	143.93303	11.23687	0.0597947	0.19162529	2.9796654	21	9 24.9	18.8
56811 2000 PG_{19}	13.6	X	233.98240	120.39800	0.98381	9.87223	0.0538024	0.19255394	2.9700775	21	9 29.0	17.8
56812 2000 PM_{21}	15.0	X	8.96529	224.41178	333.36525	6.00481	0.1299229	0.22340818	2.6899033	21	3 16.9	18.0
56813 2000 PN_{22}	14.6	X	311.91367	181.00396	109.45345	15.04125	0.1404507	0.22452906	2.6809436	21	4 27.5	18.3
56814 2000 PD_{29}	14.3	X	157.25782	102.22511	105.83030	9.77433	0.0244240	0.24158013	2.5532612	21	10 30.4	17.9
56815 2000 PS_{29}	13.8	X	196.88079	4.56400	38.54187	11.15689	0.0072398	0.17668263	3.1453826	21	5 9.8	18.2
56816 2000 QQ	15.2	X	230.87176	186.10624	138.30692	4.03553	0.1804887	0.21821526	2.7324107	21	3 2.5	19.7
56817 2000 QF_1	14.8	X	264.56834	272.60055	338.94031	21.14403	0.2670909	0.26375749	2.4080538	21	—	—
56818 2000 QV_3	14.1	X	323.91508	349.97623	343.24374	8.91726	0.0889811	0.18346613	3.0673649	21	7 17.4	18.1
56819 2000 QQ_5	14.5	X	252.90318	81.73180	333.25476	9.13355	0.0934280	0.18387064	3.0628646	21	7 26.2	18.9
56820 2000 QK_8	12.5	X	101.42172	282.27320	323.38883	9.53799	0.0618796	0.19051044	2.9912785	21	9 29.4	17.0
56821 2000 QC_{11}	15.9	X	229.68814	69.33988	180.38592	1.23476	0.1471039	0.25901275	2.4373728	21	—	—
56822 2000 QR_{12}	14.8	X	80.26340	160.87371	171.71734	1.86904	0.0794726	0.20056085	2.8904932	21	12 27.7	19.0
56823 2000 QZ_{12}	14.8	X	317.65201	258.18898	341.81658	4.83344	0.0107698	0.22001793	2.7174653	21	3 11.4	18.4
56824 2000 QA_{13}	14.8	X	9.67675	39.86092	15.37342	1.80600	0.0696703	0.20136736	2.8827700	21	—	—
56825 2000 QA_{14}	15.6	X	350.25590	357.03736	303.19607	2.92233	0.0628580	0.23240722	2.6200101	21	7 14.2	18.8
56826 2000 QA_{25}	14.6	X	35.17515	259.96586	347.09324	12.45408	0.2024718	0.22905550	2.6455069	21	8 2.8	17.5
56827 2000 QB_{28}	14.1	X	275.45890	182.17402	162.92287	20.16352	0.1139510	0.17813043	3.1283162	21	5 24.8	19.0
56828 2000 QE_{28}	14.6	X	306.60936	189.78451	165.07735	5.45843	0.1536176	0.18296144	3.0730031	21	7 8.2	18.5
56829 2000 QL_{28}	14.7	X	54.74790	200.52912	135.84249	2.95666	0.0821104	0.19517408	2.9434362	21	12 2.6	18.7
56830 2000 QT_{29}	14.2	X	346.24706	210.43220	147.76080	12.08330	0.1451086	0.18826609	3.0150046	21	9 26.2	17.6
56831 2000 QZ_{30}	14.3	X	14.14148	202.50865	135.56734	11.80998	0.1155429	0.19164759	2.9794343	21	10 18.0	18.1
56832 2000 QM_{31}	14.8	X	232.32837	166.80224	126.79255	9.61085	0.2012434	0.21587657	2.7521095	21	1 25.7	19.6
56833 2000 QN_{33}	13.6	X	217.18524	319.17698	42.97566	14.14990	0.1381713	0.17313150	3.1882472	21	4 12.5	18.7
56834 2000 QO_{35}	14.3	X	38.14294	233.65740	265.80285	8.09338	0.0940833	0.21545137	2.7557292	21	2 15.1	17.6
56835 2000 QM_{36}	14.6	X	132.58024	229.70755	317.62443	11.66628	0.0980281	0.23671598	2.5881195	21	8 30.3	18.5
56836 2000 QK_{39}	15.0	X	22.57131	0.07886	322.75837	9.46727	0.0609508	0.19124322	2.9836327	21	9 25.8	19.0
56837 2000 QX_{39}	14.4	X	35.60440	299.51838	327.86500	10.16131	0.1683702	0.18783707	3.0195937	21	8 20.5	18.0
56838 2000 QK_{40}	14.3	X	150.74725	358.76876	334.85185	3.72657	0.0723591	0.20912219	2.8110548	21	—	—
56839 2000 QM_{40}	15.2	X	185.12810	153.39964	150.11525	5.23156	0.0565883	0.21020484	2.8013943	21	—	—
56840 2000 QW_{41}	15.1	X	34.65800	250.97224	332.37399	11.08220	0.1519428	0.22907043	2.6453919	21	6 14.7	18.2
56841 2000 QS_{42}	14.4	X	112.53791	215.87215	318.52799	9.40069	0.0336794	0.18316479	3.0707283	21	7 16.0	18.7
56842 2000 QJ_{44}	15.4	X	334.60869	271.35356	332.34853	8.41602	0.1617062	0.27112811	2.3642116	21	3 8.4	17.8
56843 2000 QK_{45}	15.0	X	308.81130	326.01869	157.71221	6.50707	0.0193966	0.20197942	2.8769433	21	—	—
56844 2000 QP_{45}	15.6	X	140.26576	281.40333	319.02234	3.94584	0.1700391	0.24511426	2.5286593	21	11 17.1	19.8
56845 2000 QL_{50}	14.7	X	296.72941	174.84319	151.83575	4.40207	0.2093802	0.22713298	2.6604141	21	5 7.9	18.2
56846 2000 QF_{53}	15.0	X	256.15391	310.72497	153.17796	12.36792	0.0665229	0.19104417	2.9857047	21	10 6.0	19.2
56847 2000 QB_{59}	15.0	X	246.49355	309.78145	357.29103	9.50207	0.0452793	0.21833825	2.7313845	21	3 5.6	18.9
56848 2000 QC_{59}	15.4	X	36.03599	209.43247	24.35382	4.73272	0.2144291	0.23122557	2.6289287	21	7 13.9	18.0
56849 2000 QH_{61}	14.7	X	348.37469	309.63536	354.95641	10.33714	0.2286624	0.23155364	2.6264450	21	7 12.9	17.0
56850 2000 QT_{61}	14.4	X	280.81854	199.57457	162.53012	13.28168	0.0720563	0.17985073	3.1083357	21	6 24.6	19.0
56851 2000 QU_{64}	14.4	X	59.41517	163.65471	145.84888	12.55690	0.1218379	0.19277777	2.9677780	21	11 14.0	18.8
56852 2000 QP_{65}	14.5	X	190.47818	138.60332	135.63478	13.87629	0.0725923	0.20450889	2.8531718	21	—	—
56853 2000 QQ_{67}	14.5	X	6.85994	328.42921	23.40847	11.88577	0.0455455	0.19064922	2.9898268	21	10 14.1	18.2
56854 2000 QL_{71}	14.4	X	21.93558	245.60738	325.81764	10.52903	0.0171750	0.17617624	3.1514069	21	4 28.4	18.9
56855 2000 QJ_{73}	14.5	X	27.00738	347.36188	336.23357	10.91449	0.0753342	0.19097474	2.9864284	21	10 4.5	18.5
56856 2000 QM_{73}	14.9	X	245.20647	161.01235	160.76842	13.52729	0.0623143	0.21927619	2.7235900	21	3 21.4	18.8
56857 2000 QS_{75}	14.3	X	305.55953	132.97477	160.67850	21.83481	0.0913440	0.17692648	3.1424919	21	5 2.7	18.9
56858 2000 QZ_{77}	15.7	X	24.07320	121.15437	151.03138	3.29408	0.1700167	0.23237113	2.6202814	21	8 9.5	18.3
56859 2000 QA_{82}	14.3	X	167.68207	144.40456	350.03723	9.10150	0.0663323	0.18188685	3.0850948	21	8 2.7	19.0
56860 2000 QP_{85}	14.6	X	221.50251	354.82270	315.78435	9.13251	0.1422845	0.21565788	2.7539697	21	2 6.5	18.9
56861 2000 QW_{86}	14.6	X	333.20185	15.31293	311.12399	10.04872	0.1546922	0.18487422	3.0517701	21	7 16.2	18.0
56862 2000 QS_{90}	13.7	X	251.92103	204.79427	178.69425	20.64716	0.1971137	0.17866341	3.1220916	21	6 3.5	19.0
56863 2000 QZ_{90}	14.7	X	85.43502	15.40470	288.18613	4.26580	0.1136102	0.19613848	2.9337798	21	12 1.4	19.2
56864 2000 QG_{91}	13.6	X	239.06018	243.27442	173.31717	26.66489	0.2071460	0.17948499	3.1125568	21	6 29.0	19.1
56865 2000 QY_{91}	14.0	X	156.82879	233.05012	181.64598	21.97913	0.0698260	0.17026217	3.2239671	21	4 13.7	18.9
56866 2000 QN_{94}	13.8	X	117.81594	97.57996	342.35771	15.57720	0.1178876	0.17089478	3.2160060	21	3 30.3	18.7
56867 2000 QL_{97}	14.4	X	274.63789	303.21611	14.31652	7.90824	0.1518700	0.17542781	3.1603639	21	4 10.3	19.1
56868 2000 QT_{101}	13.6	X	290.00106	134.30724	165.02603	23.59325	0.1455398	0.17444082	3.1722736	21	4 10.7	18.3
56869 2000 QS_{102}	14.1	X	310.08733	186.08908	160.72394	15.15054	0.1619288	0.18155823	3.0888164	21	7 1.9	18.3
56870 2000 QL_{104}	14.5	X	48.88707	190.29958	145.22090	11.23919	0.0120704	0.19278138	2.9677409	21	11 17.0	18.8
56871 2000 QB_{108}	14.3	X	170.15215	68.86841	355.77402	4.76867	0.1657311	0.17369122	3.1813941	21	5 9.9	19.5
56872 2000 QD_{109}	14.6	X	313.74148	206.90431	134.37220	11.02590	0.0329880	0.18266761	3.0762977	21	7 16.8	18.7
56873 2000 QG_{110}	15.0	X	6.92178	273.78175	326.45253	10.73495	0.1431703	0.22680384	2.6629874	21	5 10.1	18.0
56874 2000 QX_{110}	14.0	X	162.46564	312.98190	163.99478	27.83586	0.1513746	0.17899396	3.1182466	21	7 6.6	19.5
56875 2000 QE_{111}	15.1	X	336.26385	340.07477	337.36840	1.81804	0.1170190	0.18380090	3.0636393	21	7 11.6	18.8
56876 2000 QN_{111}	14.8	X	99.43197	233.33330	343.85023	15.27950	0.1066684	0.23393286	2.6086065	21	9 4.5	18.3
56877 2000 QA_{113}	14.5	X	234.88256	109.15825	345.98517	9.62338	0.0246764	0.18529639	3.0471330	21	9 1.5	18.8
56878 2000 QT_{115}	14.6	X	34.77642	356.55561	302.08831	4.25899	0.1088213	0.18802366	3.0175957	21	9 19.5	18.5
56879 2000 QW_{118}	14.2	X	340.16887	44.44117	306.53631	7.96630	0.1475324	0.18617113	3.0375807	21	8 29.6	17.7
56880 2000 QS_{120}	14.0	X	17.03503	333.98475	313.60151	8.53414	0.0733310	0.18315417	3.0708469	21	8 6.7	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56881 2000 QE_{122}	13.8	X	46.23518	242.64202	194.48403	14.90672	0.1285607	0.15634335	3.4125820	21	—	—
56882 2000 QT_{122}	14.8	X	119.86103	302.96523	344.74925	10.71264	0.1640786	0.24516507	2.5283100	21	12 27.9	19.1
56883 2000 QH_{125}	14.3	X	331.58167	21.13652	293.19015	9.26363	0.0869878	0.18252247	3.0779282	21	7 2.4	18.2
56884 2000 QK_{125}	14.4	X	247.38116	16.47915	298.44095	9.88624	0.0693834	0.17134112	3.2104185	21	3 13.9	19.4
56885 2000 QP_{127}	13.2	X	241.63426	354.86729	3.30738	14.35017	0.2401669	0.17300971	3.1897433	21	4 16.2	18.6
56886 2000 QG_{131}	15.1	X	194.71893	332.03277	313.19716	2.85704	0.0710787	0.20975392	2.8054078	21	—	—
56887 2000 QZ_{131}	15.4	X	314.80541	275.67415	350.18773	3.89364	0.1304158	0.27234980	2.3571362	21	3 16.0	18.3
56888 2000 QG_{134}	14.4	X	228.76237	280.92444	139.53663	12.05538	0.1230897	0.18199576	3.0838639	21	7 1.0	19.3
56889 2000 QC_{137}	13.8	X	188.97731	359.40338	27.29362	6.03275	0.1603214	0.17114362	3.2128879	21	4 13.1	19.1
56890 2000 QM_{137}	14.3	X	260.99024	216.81200	212.16875	8.31848	0.0598833	0.18832139	3.0144144	21	8 23.1	18.7
56891 2000 QH_{139}	14.1	X	58.29063	196.83034	3.28434	12.95172	0.1078500	0.22377719	2.6869454	21	6 15.1	17.7
56892 2000 QB_{142}	14.6	X	19.29316	333.76558	13.92651	9.93654	0.0926881	0.19015870	2.9949662	21	10 28.4	18.5
56893 2000 QD_{145}	15.1	X	353.82388	113.95638	151.54339	13.24663	0.1670391	0.22645670	2.6657081	21	5 28.6	18.1
56894 2000 QP_{145}	14.8	X	61.26644	188.70975	109.06366	4.22084	0.1616221	0.19179939	2.9778620	21	11 4.9	19.0
56895 2000 QS_{149}	14.6	X	6.77491	153.68495	170.57211	9.65009	0.1168914	0.18936973	3.0032790	21	9 12.2	18.2
56896 2000 QN_{155}	14.8	X	354.00752	56.11208	192.86389	11.81779	0.1747355	0.22723981	2.6595803	21	5 1.1	17.4
56897 2000 QC_{158}	14.3	X	319.89310	78.77695	243.88452	8.64246	0.0797493	0.18251195	3.0780465	21	6 25.5	18.3
56898 2000 QH_{158}	14.4	X	137.72132	255.02415	249.52411	8.10444	0.0279001	0.18165104	3.0877642	21	7 5.9	18.8
56899 2000 QO_{158}	14.5	X	161.21229	197.70460	273.28310	10.00920	0.0742437	0.22933685	2.6433428	21	6 24.1	18.4
56900 2000 QR_{161}	14.5	X	332.33078	125.31507	263.15113	8.57154	0.0834782	0.19232151	2.9724700	21	10 7.5	18.4
56901 2000 QR_{162}	14.7	X	8.75128	136.36715	187.86628	10.88154	0.0902357	0.18970843	2.9997033	21	9 12.1	18.6
56902 2000 QT_{164}	14.6	X	27.30777	67.49518	211.40307	10.10813	0.0390984	0.18486439	3.0518783	21	8 4.1	18.9
56903 2000 QR_{170}	14.1	X	247.47003	234.67832	188.94490	8.90445	0.0304345	0.18329313	3.0692947	21	8 3.9	18.7
56904 2000 QP_{171}	14.7	X	117.62715	5.69998	178.52925	13.79404	0.1218707	0.23029142	2.6360332	21	8 11.6	18.8
56905 2000 QB_{176}	14.7	X	131.21181	240.28928	318.43976	10.54218	0.1831234	0.23702261	2.5858870	21	9 16.0	19.0
56906 2000 QY_{184}	14.2	X	181.40792	50.13246	338.86630	14.94039	0.0967859	0.17262951	3.1944249	21	4 1.6	19.3
56907 2000 QJ_{185}	13.7	X	297.64031	14.71866	2.17560	10.28284	0.1339203	0.18562336	3.0435537	21	7 31.4	17.8
56908 2000 QX_{185}	15.1	X	142.25109	102.80408	102.66221	3.97154	0.1645291	0.24055223	2.5605295	21	10 10.0	19.2
56909 2000 QP_{190}	14.4	X	216.37015	224.22389	121.52287	12.93145	0.1534883	0.17161943	3.2069468	21	3 24.6	19.8
56910 2000 QJ_{192}	14.1	X	190.63199	12.34787	100.70811	10.83421	0.0506793	0.18314264	3.0709758	21	7 31.2	18.7
56911 2000 QY_{192}	13.9	X	193.32597	343.05392	113.32770	9.34474	0.0435024	0.18165155	3.0877584	21	7 12.2	18.4
56912 2000 QH_{195}	14.9	X	201.12013	282.17694	20.61448	3.65489	0.0437612	0.21183636	2.7869919	21	1 8.5	18.9
56913 2000 QS_{200}	14.7	X	76.65591	285.63040	350.06896	9.98909	0.0806539	0.19193792	2.9764290	21	10 11.2	19.0
56914 2000 QP_{203}	14.9	X	33.56241	231.61910	116.94286	3.70238	0.0806869	0.19397535	2.9555503	21	11 20.7	18.9
56915 2000 QW_{206}	14.5	X	332.50720	262.53583	1.53015	12.59646	0.1652893	0.22343935	2.6896531	21	4 9.0	17.6
56916 2000 QU_{210}	14.2	X	208.93673	33.78756	326.00152	6.17552	0.1322978	0.17141730	3.2094673	21	3 27.8	19.3
56917 2000 QO_{221}	14.1	X	243.10822	269.49453	133.30710	17.02494	0.0924897	0.18206728	3.0830563	21	6 28.4	18.8
56918 2000 QQ_{230}	14.3	X	156.41678	123.63238	2.95214	21.84169	0.0405149	0.17970125	3.1100592	21	7 12.9	19.3
56919 2000 QF_{251}	14.5	X	306.31665	271.54845	72.18013	11.81036	0.1045069	0.18338706	3.0682466	21	6 30.4	18.5
56920 2000 RA_{1}	13.5	X	212.03416	226.89866	183.54854	21.47887	0.0615415	0.17551938	3.1592645	21	6 6.2	18.6
56921 2000 RW_{3}	14.0	X	45.58445	298.03553	7.17432	9.68429	0.1040459	0.18816121	3.0161249	21	10 13.3	17.9
56922 2000 RE_{15}	13.8	X	278.64852	168.24225	224.06022	8.95904	0.0784680	0.18346570	3.0673697	21	7 26.9	18.2
56923 2000 RB_{19}	14.2	X	49.69985	328.25933	304.76452	10.64869	0.0905611	0.18665857	3.0322902	21	9 2.8	18.4
56924 2000 RJ_{20}	13.8	X	197.45675	179.54483	204.16271	11.00337	0.1403939	0.17137261	3.2100252	21	4 16.9	18.8
56925 2000 RG_{21}	14.6	X	329.23992	322.27928	321.50317	12.18823	0.1434836	0.22527395	2.6750305	21	5 1.6	18.0
56926 2000 RX_{21}	14.5	X	131.10492	303.03781	323.35048	10.02079	0.0838725	0.19607922	2.9343708	21	11 30.6	19.2
56927 2000 RT_{22}	14.3	X	337.58101	157.86965	202.25933	10.11755	0.0462961	0.18608757	3.0384900	21	9 10.1	18.4
56928 2000 RF_{27}	14.0	X	146.24096	143.74201	316.61777	12.93826	0.0875178	0.17329961	3.1861850	21	5 24.8	19.1
56929 2000 RY_{27}	14.7	X	359.69808	335.78564	344.36595	11.69349	0.0680927	0.18450349	3.0558568	21	8 25.3	18.5
56930 2000 RY_{28}	13.6	X	48.72006	16.62067	303.64840	9.72199	0.1123541	0.19189671	2.9768551	21	11 4.9	17.8
56931 2000 RM_{32}	14.5	X	64.34443	44.44018	225.58478	5.78124	0.0230966	0.18526973	3.0474253	21	9 10.3	18.9
56932 2000 RT_{40}	13.8	X	150.20542	150.17798	347.00916	27.51482	0.1307020	0.17657581	3.1466511	21	7 29.5	19.2
56933 2000 RZ_{40}	14.4	X	20.54521	313.01343	328.27446	13.30704	0.1946066	0.23106935	2.6301135	21	8 20.1	16.9
56934 2000 RE_{41}	14.0	X	134.97092	350.54517	248.06434	8.70904	0.0238435	0.19072911	2.9889918	21	10 28.9	18.4
56935 2000 RU_{41}	13.8	X	301.73354	29.16786	296.28702	6.95039	0.1274026	0.17778631	3.1323516	21	5 26.7	18.0
56936 2000 RW_{53}	13.6	X	309.88300	327.55411	299.34985	15.37594	0.0716535	0.17417339	3.1755199	21	3 24.8	18.4
56937 2000 RD_{64}	14.3	X	222.26091	286.59867	3.14724	12.58263	0.1572304	0.20909964	2.8112569	21	1 18.1	19.1
56938 2000 RO_{65}	13.4	X	17.30097	207.64374	25.04546	13.40834	0.1234530	0.22176209	2.7031980	21	5 20.6	16.5
56939 2000 RC_{68}	14.1	X	205.21199	12.23304	335.65758	11.86655	0.1713160	0.17265722	3.1940831	21	3 10.5	19.4
56940 2000 RG_{70}	14.1	X	289.56298	234.72625	16.55967	9.14846	0.1059398	0.21288612	2.7778224	21	2 10.3	18.2
56941 2000 RQ_{73}	15.0	X	291.41210	268.65718	9.92476	12.44845	0.2176577	0.21873629	2.7280698	21	3 3.3	19.1
56942 2000 RL_{75}	13.7	X	235.92863	81.59565	303.03064	8.20994	0.0914077	0.17482264	3.1676530	21	5 26.7	18.5
56943 2000 RF_{76}	14.1	X	184.55363	287.18972	136.78933	2.10674	0.1808797	0.17643718	3.1482991	21	5 23.5	19.4
56944 2000 RS_{85}	14.1	X	284.36349	188.22785	133.71184	8.00311	0.1110631	0.17483442	3.1675106	21	5 6.2	18.7
56945 2000 RG_{88}	15.1	X	359.07437	9.59008	252.95277	3.25912	0.0919404	0.22861834	2.6488783	21	6 3.3	18.1
56946 2000 RZ_{88}	14.3	X	124.81105	160.17725	331.25136	26.70224	0.1591034	0.17499237	3.1656044	21	6 21.9	19.7
56947 2000 RZ_{93}	15.1	X	143.75700	22.84058	188.48956	13.55669	0.1049818	0.19093810	2.9868104	21	10 11.0	19.8
56948 2000 RR_{98}	14.0	X	225.25712	85.18112	314.19305	21.63950	0.0320901	0.17675055	3.1445768	21	6 8.9	18.9
56949 2000 RQ_{100}	13.7	X	354.72496	16.59776	276.51007	14.79864	0.2250073	0.18264487	3.0765530	21	7 6.7	16.5
56950 2000 SA_{2}	14.5	X	23.21121	266.63542	23.14303	22.07753	0.2812775	0.28248381	2.3004194	21	10 5.8	16.5
56951 2000 SK_{2}	11.9	X	353.78846	209.18990	61.74814	13.40128	0.0246146	0.08465783	5.1367839	21	6 12.7	18.7
56952 2000 SU_{3}	14.2	X	64.02579	230.35312	104.87723	13.13856	0.0636222	0.19619544	2.9332119	21	12 10.9	18.4
56953 2000 SN_{6}	13.8	X	158.32948	54.93878	63.98330	23.85597	0.0585396	0.17710007	3.1404380	21	6 28.7	18.7
56954 2000 SF_{7}	13.9	X	277.13693	97.57430	167.50811	13.77029	0.1400364	0.21195969	2.7859107	21	2 4.3	18.3
56955 2000 ST_{14}	14.1	X	138.07140	54.77064	126.67792	15.26871	0.0534254	0.23115659	2.6294517	21	8 31.0	17.9
56956 2000 SH_{19}	14.4	X	55.47726	245.45709	337.80707	11.09900	0.1094097	0.17928857	3.1148297	21	7 16.8	18.6
56957 Seohideaki	13.8	X	282.16190	296.94465	318.91428	11.93753	0.0808641	0.21175939	2.7876673	21	2 7.2	17.6
56958 2000 ST_{28}	13.9	X	125.60477	159.02620	337.83543	13.06618	0.0308164	0.17415368	3.1757596	21	6 11.9	18.7
56959 2000 SU_{45}	14.5	X	205.26470	67.71216	248.03670	12.92234	0.1063574	0.21416239	2.7667754	21	1 24.9	19.1
56960 2000 SN_{46}	13.6	X	221.29884	104.09825	274.29040	15.17331	0.1469930	0.17625085	3.1505175	21	4 27.6	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
56961 2000 SR_{60}	15.1	X	248.31663	40.45498	176.14123	1.53059	0.1085013	0.20411312	2.8568587	21	—	—
56962 2000 SW_{65}	12.3	X	288.56121	149.63855	183.04081	15.19305	0.0839430	0.08139873	5.2729983	21	5 31.8	19.3
56963 2000 SX_{68}	14.5	X	214.09104	233.18258	8.27405	0.51229	0.1758001	0.20344438	2.8631158	21	—	—
56964 2000 SY_{79}	14.6	X	196.25906	90.38068	157.98375	4.03470	0.1137754	0.20173175	2.8792975	21	—	—
56965 2000 SJ_{83}	14.3	X	9.86737	190.72452	26.77984	11.43631	0.0448507	0.17119876	3.2121980	21	4 24.4	18.7
56966 2000 ST_{86}	14.8	X	48.52805	121.79277	117.71334	5.24994	0.2266202	0.22672211	2.6636274	21	8 16.3	17.8
56967 2000 SG_{91}	13.6	X	268.71356	81.93247	294.59915	14.77836	0.1061241	0.18105259	3.0945646	21	6 23.5	18.1
56968 2000 SA_{92}	11.6	X	123.24105	258.93272	234.04081	14.42345	0.0361741	0.08303204	5.2036202	21	6 8.2	18.6
56969 2000 SW_{106}	14.3	X	49.70480	57.31730	206.02025	4.62530	0.1378667	0.18387349	3.0628328	21	8 30.4	18.3
56970 2000 SJ_{111}	13.5	X	119.48186	140.93570	26.86212	10.63185	0.1517438	0.17566045	3.1575729	21	7 30.9	18.6
56971 2000 SG_{120}	13.9	X	278.35176	272.69048	80.14691	2.57771	0.2165340	0.17691673	3.1426073	21	5 20.3	18.5
56972 2000 SP_{140}	14.9	X	281.95896	247.00673	0.19126	8.93708	0.1129218	0.21147578	2.7901590	21	1 26.3	19.1
56973 2000 SA_{142}	14.2	X	291.15852	108.45064	215.34659	9.72547	0.0598087	0.17450003	3.1715559	21	5 22.3	18.6
56974 2000 SS_{142}	13.8	X	112.44104	30.35636	308.31487	8.79284	0.0794996	0.15180645	3.4802402	21	—	—
56975 2000 SP_{161}	14.0	X	117.89814	275.26141	102.87360	9.82830	0.0924539	0.15996837	3.3608308	21	1 20.6	18.8
56976 2000 SS_{161}	11.5	X	224.79498	322.22795	76.19554	13.24164	0.0343324	0.08214470	5.2410262	21	6 9.3	18.5
56977 2000 SB_{173}	14.8	X	111.49964	345.11178	254.97778	18.47093	0.2214580	0.24006000	2.5640285	21	10 21.9	19.4
56978 2000 SR_{173}	13.3	X	100.70574	295.52066	232.09494	21.43088	0.1039755	0.17514300	3.1637891	21	6 27.4	18.2
56979 2000 SB_{175}	14.0	X	331.82252	265.24685	340.71171	13.55590	0.0306352	0.16787692	3.2544333	21	4 5.6	18.7
56980 2000 SS_{177}	13.7	X	330.27624	270.13884	359.53802	12.51071	0.1400314	0.17136747	3.2100894	21	4 21.8	17.9
56981 2000 SQ_{182}	14.0	X	324.71979	233.46202	89.82145	15.12583	0.0969494	0.18106352	3.0944400	21	7 2.1	17.9
56982 2000 SE_{189}	13.3	X	197.50264	100.30754	335.03162	8.40754	0.2196588	0.12591165	3.9423827	21	6 16.5	19.8
56983 2000 SF_{190}	14.4	X	170.09319	272.10128	152.64665	13.34908	0.0627128	0.17415496	3.1757440	21	5 11.5	19.4
56984 2000 SX_{193}	14.6	X	352.85346	140.77711	139.33406	10.37109	0.0848193	0.18013060	3.1051152	21	6 20.4	18.6
56985 2000 SR_{202}	14.1	X	149.00748	309.31905	151.55869	3.47357	0.1849408	0.12399389	3.9829286	21	6 7.7	20.4
56986 2000 SR_{210}	13.5	X	178.25770	45.48829	110.10783	9.94760	0.1247889	0.18218224	3.0817591	21	9 9.5	18.5
56987 2000 SR_{211}	13.8	X	112.37975	260.98177	134.00163	12.47461	0.0646546	0.15944499	3.3681813	21	1 29.7	18.5
56988 2000 SV_{241}	14.6	X	301.56403	41.41943	7.88919	9.05461	0.0446289	0.18938222	3.0031469	21	9 26.7	18.5
56989 2000 SS_{242}	14.9	X	137.25781	173.39031	82.82809	3.20450	0.0792319	0.19670473	2.9281468	21	11 26.5	19.3
56990 2000 SZ_{242}	14.2	X	155.30539	209.25433	44.39374	7.29684	0.0355636	0.19795496	2.9158049	21	12 11.7	18.6
56991 2000 SB_{282}	14.3	X	101.79492	289.95695	262.83977	9.35610	0.0592177	0.18051358	3.1007217	21	7 25.9	18.8
56992 2000 SM_{286}	13.4	X	285.13325	309.96674	8.01107	20.28780	0.1733007	0.17092841	3.2155841	21	4 15.7	18.3
56993 2000 SA_{291}	14.7	X	16.84884	309.88567	305.37568	4.23773	0.1028229	0.17829445	3.1263973	21	6 25.8	18.4
56994 2000 SR_{292}	13.8	X	351.03599	290.67833	353.19347	15.15450	0.0638123	0.17530087	3.1618893	21	6 23.4	18.2
56995 2000 SU_{299}	14.5	X	76.24267	327.54349	217.54995	13.01974	0.0741721	0.17465735	3.1696512	21	6 17.4	19.0
56996 2000 SP_{307}	13.1	X	169.62125	154.79876	305.59876	7.29420	0.1710081	0.12480902	3.9655679	21	6 23.8	19.5
56997 2000 SV_{309}	13.6	X	282.32237	357.77859	339.52281	26.71710	0.1442053	0.17506760	3.1646975	21	5 1.6	18.7
56998 2000 SA_{310}	13.0	X	301.08096	73.63357	279.13153	20.44183	0.1167134	0.18028300	3.1033651	21	7 2.9	17.1
56999 2000 SD_{317}	14.7	X	143.30251	200.94374	302.06412	14.49457	0.0170143	0.17957694	3.1114942	21	7 11.9	19.2
57000 2000 SJ_{319}	13.6	X	280.99117	320.08500	345.65310	16.79309	0.1205982	0.16910949	3.2386006	21	4 2.4	18.5
57001 2000 SO_{327}	14.2	X	311.46030	264.47676	8.01585	12.57531	0.1760079	0.21823459	2.7322493	21	3 22.6	17.7
57002 2000 ST_{343}	14.8	X	18.47761	227.78273	319.74307	5.18898	0.0447905	0.17015614	3.2253063	21	3 28.3	19.1
57003 2000 SL_{349}	13.6	X	152.39053	60.38390	108.24500	12.35310	0.0907977	0.17962048	3.1109914	21	8 30.3	18.5
57004 2000 SP_{349}	15.1	X	254.31677	235.66315	50.41418	7.75291	0.3192642	0.26670281	2.3902922	21	1 25.2	19.6
57005 2000 ST_{349}	14.1	X	211.60240	80.08962	58.57624	11.13216	0.0456807	0.18907994	3.0063468	21	9 30.9	18.6
57006 2000 SU_{354}	14.0	X	223.52735	9.70477	45.01563	11.61945	0.0994775	0.17871293	3.1215148	21	6 19.3	18.9
57007 2000 SH_{356}	14.0	X	180.38219	317.40773	139.43607	16.93584	0.0760728	0.17579928	3.1559104	21	6 28.7	19.0
57008 2000 SV_{356}	14.4	X	257.26291	330.56120	11.93566	13.09959	0.1878891	0.22429677	2.6827942	21	4 13.6	18.7
57009 2000 SK_{357}	14.1	X	183.81201	149.99502	136.83433	16.30112	0.2790398	0.20607237	2.8387221	21	—	—
57010 2000 TP_{1}	14.3	X	302.13887	197.89870	44.87253	11.23254	0.1784765	0.21192996	2.7861713	21	2 5.6	18.5
57011 2000 TO_{18}	14.1	X	354.82197	77.02571	212.89141	14.51253	0.1339803	0.17827002	3.1266830	21	7 2.8	18.1
57012 2000 TA_{21}	14.2	X	282.17182	192.84457	134.81342	10.32863	0.0722572	0.17517907	3.1633548	21	5 16.5	18.8
57013 2000 TD_{39}	11.8	X	313.30823	271.68219	21.04888	17.59098	0.0557692	0.08182172	5.2548093	21	5 13.4	18.7
57014 2000 TM_{39}	14.4	X	232.69458	236.20490	109.19860	7.19909	0.0946797	0.17225959	3.1989966	21	4 10.1	19.3
57015 2000 TH_{40}	14.3	X	46.85303	155.85156	37.16147	13.24424	0.1212632	0.22251929	2.6970621	21	5 17.8	17.4
57016 2000 TY_{41}	14.4	X	93.54677	154.31660	144.50649	13.64663	0.2059416	0.19690596	2.9261515	21	12 14.3	19.3
57017 2000 TC_{42}	14.2	X	313.51463	226.68722	134.62182	11.07904	0.1042226	0.18352470	3.0667123	21	8 4.0	17.9
57018 2000 TA_{46}	14.5	X	37.74149	306.17494	307.65088	2.96756	0.1078466	0.18153006	3.0891359	21	7 28.1	18.3
57019 2000 TQ_{57}	14.2	X	147.62433	139.32009	49.44459	13.84663	0.1142251	0.23467843	2.6030785	21	9 27.4	18.4
57020 2000 TX_{58}	14.3	X	73.19898	93.72411	138.44121	13.24941	0.1295976	0.22833514	2.6510680	21	8 26.3	17.7
57021 2000 TG_{59}	13.6	X	42.95868	99.32338	96.60090	16.19962	0.1178110	0.17009860	3.2260337	21	5 25.1	17.8
57022 2000 TK_{64}	13.5	X	239.36886	238.31501	100.11657	19.98686	0.2181606	0.17120763	3.2120871	21	4 6.5	19.2
57023 2000 UH_{10}	13.4	X	66.66943	301.75370	51.49947	7.62155	0.1841605	0.19290254	2.9664982	21	—	—
57024 2000 UD_{23}	13.7	X	278.65329	262.97905	60.57567	15.34240	0.1091690	0.17137485	3.2099972	21	5 1.9	18.4
57025 2000 UO_{24}	13.7	X	295.87999	221.68564	70.00671	16.57434	0.1975203	0.17041797	3.2220019	21	4 6.7	18.5
57026 2000 UD_{55}	13.9	X	313.19313	241.14097	67.22711	17.98502	0.2418889	0.17488213	3.1669346	21	5 8.4	18.0
57027 2000 UB_{59}	13.5	X	194.06818	150.60712	285.49566	3.35553	0.1337923	0.12556159	3.9497068	21	6 16.4	19.5
57028 2000 UJ_{60}	14.6	X	263.68764	341.41286	353.15855	4.60289	0.1408672	0.17238245	3.1974765	21	4 19.9	19.4
57029 2000 UY_{65}	14.5	X	3.62277	275.71235	24.83178	4.81718	0.1446254	0.18028336	3.1033609	21	8 7.7	18.0
57030 2000 UW_{102}	13.8	X	142.83687	198.35811	34.00484	11.86513	0.1691513	0.18688056	3.0298883	21	11 3.8	18.7
57031 2000 VA	14.8	X	354.06437	37.10941	356.84054	4.85568	0.1020253	0.28317702	2.2966636	21	12 13.9	17.1
57032 2000 VU_{8}	14.0	X	33.52335	100.80503	115.14150	2.04401	0.1246542	0.16988812	3.2286976	21	6 2.5	18.0
57033 2000 VR_{15}	14.0	X	340.70617	220.16467	61.60486	17.58375	0.1944904	0.17393608	3.1784077	21	5 23.6	17.6
57034 2000 VZ_{56}	13.0	X	26.63722	213.70593	53.36290	17.64922	0.0644954	0.17421608	3.1750011	21	7 28.2	17.5
57035 2000 WG_{54}	14.6	X	216.47593	262.06629	351.03707	2.24519	0.0971107	0.24663698	2.5182408	21	—	—
57036 2000 WV_{182}	14.2	X	347.29649	225.47973	67.57173	23.79285	0.2309290	0.27603690	2.3360992	21	6 11.4	15.7
57037 2000 YC_{105}	14.8	X	140.78875	307.00925	277.68944	10.14741	0.2831338	0.26689903	2.3891205	21	10 31.2	19.3
57038 2001 AX_{39}	14.9	X	34.62634	350.61859	355.31862	4.07974	0.2595508	0.27979366	2.3151411	21	—	—
57039 2001 DF_{61}	14.8	X	354.45366	213.73198	155.88209	9.99468	0.0717604	0.17540185	3.1606757	21	10 21.1	19.0
57040 2001 DH_{106}	16.3	X	237.39260	112.42614	163.60318	7.19002	0.1491465	0.28640635	2.2793672	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57041 2001 EN_{12}	12.0	X	287.88010	22.04222	73.22493	9.16203	0.0751111	0.08044753	5.3144816	21	10 20.3	18.9
57042 2001 EK_{20}	16.7	X	180.28590	94.82006	338.00976	7.24462	0.0711531	0.30386759	2.1911888	21	5 20.5	19.7
57043 2001 FS_{13}	15.6	X	22.30888	161.38985	140.23897	1.97837	0.1906702	0.25904689	2.4371586	21	9 27.7	17.8
57044 2001 HH_{42}	15.0	X	314.05757	202.59450	8.57147	0.61816	0.0823238	0.18989210	2.9977687	21	1 25.6	19.2
57045 2001 KY_{33}	15.3	X	61.19322	163.12302	178.39412	3.98285	0.1473372	0.21631389	2.7483990	21	12 28.5	19.3
57046 2001 KW_{55}	14.4	X	43.47294	215.09840	127.70964	9.06601	0.2334498	0.21070139	2.7969913	21	12 21.1	18.4
57047 2001 LG_{1}	14.9	X	214.12924	78.56092	257.44979	8.86247	0.3209474	0.28019048	2.3129547	21	2 19.2	19.4
57048 2001 LU_{6}	15.6	X	147.56390	334.66988	29.12382	5.36273	0.2435253	0.27312997	2.3526454	21	2 4.8	19.2
57049 2001 LJ_{7}	14.2	X	163.02334	200.21860	190.08086	10.10648	0.2879554	0.22630427	2.6669050	21	3 27.6	18.7
57050 2001 LF_{11}	13.7	X	32.17670	294.53838	99.29419	31.73871	0.3661518	0.21362883	2.7713804	21	—	—
57051 2001 LK_{13}	15.5	X	138.54956	260.32170	107.87175	13.17621	0.2076789	0.27618344	2.3352729	21	1 25.8	18.7
57052 2001 MS_{6}	15.4	X	222.54481	351.07623	45.80317	5.71618	0.3251738	0.23651765	2.5895662	21	5 14.0	20.2
57053 2001 MA_{13}	14.2	X	281.32955	78.07423	303.61702	11.01978	0.1608711	0.24201127	2.5502279	21	7 8.3	17.4
57054 2001 MB_{13}	14.9	X	215.71783	107.63961	312.37204	13.22602	0.1769198	0.23751685	2.5822985	21	6 13.2	19.3
57055 2001 MN_{18}	15.8	X	277.27336	219.11860	138.76530	4.03850	0.1654960	0.29107740	2.2549161	21	5 27.8	18.6
57056 2001 MW_{19}	14.8	X	216.27123	49.29862	338.51739	5.48463	0.1972552	0.23718269	2.5847233	21	4 30.8	19.2
57057 2001 MO_{20}	15.2	X	18.50533	296.62184	58.61806	3.58561	0.1981714	0.25522780	2.4614106	21	12 6.9	17.8
57058 2001 MX_{20}	15.8	X	181.36825	288.07659	99.56969	10.34059	0.2172310	0.28045571	2.3114962	21	4 6.1	19.8
57059 2001 MA_{24}	15.3	X	178.49928	71.38624	322.36533	5.61184	0.1465993	0.27935971	2.3175381	21	3 31.1	18.8
57060 2001 MO_{25}	15.7	X	286.33252	42.23356	307.23978	3.99841	0.1818334	0.28910270	2.2651725	21	5 23.3	18.6
57061 2001 MZ_{26}	14.1	X	36.47043	120.44188	249.45246	16.20294	0.1685661	0.21007147	2.8025799	21	—	—
57062 2001 NC_{1}	15.8	X	64.54857	293.41947	100.20836	5.13093	0.1972315	0.26555524	2.3971735	21	—	—
57063 2001 NE_{3}	15.1	X	217.80368	245.99349	142.79274	3.20825	0.2401133	0.23630327	2.5911321	21	5 5.2	19.6
57064 2001 NW_{6}	16.8	X	62.85461	85.40561	305.12679	2.38380	0.1551476	0.31497441	2.1393698	21	—	—
57065 2001 NZ_{6}	15.2	X	127.06540	190.79810	171.93592	5.21258	0.2386671	0.26727431	2.3868836	21	1 9.8	18.3
57066 2001 NS_{8}	16.3	X	292.37052	58.77148	326.10047	5.16345	0.1654699	0.29591804	2.2302579	21	7 30.6	18.4
57067 2001 NB_{21}	16.0	X	284.47125	28.36526	311.75358	7.14402	0.1854481	0.28740209	2.2740993	21	5 4.9	19.2
57068 2001 OC_{1}	16.5	X	112.11383	200.00385	189.63184	2.35544	0.1809143	0.27142768	2.3624717	21	1 15.7	19.2
57069 2001 OA_{3}	15.0	X	297.82974	229.38111	123.88783	13.23381	0.1350742	0.24370621	2.5383899	21	6 26.2	18.1
57070 2001 OB_{6}	14.3	X	171.49972	207.36671	208.68700	9.04248	0.0961840	0.18312541	3.0711685	21	4 29.7	19.0
57071 2001 OA_{7}	15.3	X	195.09250	147.94836	221.50711	3.37738	0.1722657	0.27823800	2.3237626	21	3 18.3	18.9
57072 2001 OZ_{10}	15.0	X	85.91131	309.39890	79.12673	6.97258	0.0614422	0.21873373	2.7280911	21	—	—
57073 2001 OB_{13}	15.2	X	188.40502	40.45263	306.39491	9.30024	0.2459608	0.27641224	2.3339840	21	2 15.0	19.1
57074 2001 OO_{13}	15.0	X	302.13956	274.07769	102.89265	5.38747	0.2699141	0.24268951	2.5454743	21	7 13.8	17.9
57075 2001 OU_{13}	15.5	X	213.14015	225.07653	117.67290	5.12391	0.2067221	0.27696494	2.3308778	21	3 4.2	19.4
57076 2001 OY_{16}	15.0	X	71.49631	257.76532	147.24526	8.21111	0.2054774	0.21726732	2.7403526	21	—	—
57077 2001 OB_{19}	14.8	X	97.95688	241.58262	181.59450	4.13522	0.1450389	0.22540756	2.6739733	21	2 13.4	18.2
57078 2001 OJ_{19}	15.3	X	5.35376	207.27222	178.16352	9.55403	0.1712111	0.25636894	2.4541011	21	12 23.7	18.1
57079 2001 OY_{20}	13.9	X	176.32220	101.45224	335.66493	12.77793	0.1300105	0.23291623	2.6161916	21	5 25.9	18.3
57080 2001 OE_{21}	15.3	X	67.71865	188.80996	164.45561	6.72314	0.1527789	0.25797822	2.4438846	21	—	—
57081 2001 OH_{21}	15.2	X	136.46426	112.57623	308.45394	5.89928	0.0810325	0.27613045	2.3355716	21	3 13.5	18.3
57082 2001 OX_{21}	14.9	X	131.61061	218.60411	157.49599	2.93589	0.2222525	0.21899645	2.7259089	21	2 7.3	18.9
57083 2001 OM_{31}	13.4	X	56.91594	241.39673	258.96602	23.34446	0.2419613	0.27393893	2.3480115	21	3 14.3	16.0
57084 2001 OH_{35}	15.4	X	246.66626	249.27763	111.04679	23.58589	0.2458079	0.28612648	2.2808533	21	4 30.7	19.7
57085 2001 OY_{37}	15.1	X	330.73457	160.04945	328.04522	19.02104	0.0766822	0.36608514	1.9352986	21	—	—
57086 2001 OJ_{39}	14.4	X	207.99500	310.26927	122.83834	8.54609	0.1701053	0.23742705	2.5829495	21	6 23.1	18.6
57087 2001 OB_{41}	15.5	X	115.94862	58.66534	332.56503	7.52277	0.2032031	0.27185232	2.3600110	21	1 28.9	18.2
57088 2001 OT_{41}	15.3	X	144.62190	345.03810	66.40092	6.82433	0.1703767	0.27785056	2.3259223	21	3 27.6	18.7
57089 2001 OF_{42}	13.4	X	195.22240	111.77513	328.56294	10.38201	0.0911216	0.18589238	3.0406166	21	6 23.4	18.2
57090 2001 OF_{44}	13.8	X	159.82250	116.63593	313.04524	13.54126	0.1572795	0.17848532	3.1241680	21	5 2.3	19.1
57091 2001 OL_{44}	15.4	X	196.10242	204.23937	199.49623	13.47793	0.0791927	0.23125582	2.6286995	21	5 7.8	19.3
57092 2001 OG_{45}	15.3	X	228.04519	220.96089	162.69354	12.44869	0.2280087	0.23595668	2.5936689	21	5 9.8	19.8
57093 2001 OM_{46}	15.7	X	270.98920	54.48559	289.99133	4.70999	0.1906503	0.28763749	2.2728584	21	4 25.0	19.1
57094 2001 OA_{48}	15.5	X	33.93302	203.50991	199.05912	6.47047	0.1652438	0.26078436	2.4263216	21	—	—
57095 2001 OX_{48}	15.3	X	300.33010	180.45376	193.59097	3.07825	0.2122556	0.24290426	2.5439738	21	7 15.9	18.0
57096 2001 OQ_{56}	15.1	X	177.71882	236.17409	197.87478	12.89563	0.1717717	0.23133988	2.6280626	21	5 28.5	19.5
57097 2001 OP_{58}	15.5	X	123.82716	16.36781	343.35871	2.46490	0.1880318	0.26589844	2.3951104	21	—	—
57098 2001 OB_{66}	13.9	X	10.23362	103.11819	338.71126	9.09764	0.1087019	0.20971658	2.8057407	21	—	—
57099 2001 OL_{69}	16.1	X	315.62864	247.73216	126.29802	6.66785	0.1704991	0.29534864	2.2331234	21	8 29.3	17.7
57100 2001 OM_{69}	14.4	X	107.71238	267.21409	144.39332	30.87249	0.1790251	0.22092908	2.7099886	21	2 18.8	17.9
57101 2001 OC_{70}	15.0	X	242.91218	10.19509	17.14764	4.23073	0.3154201	0.23555938	2.5965845	21	5 16.8	19.5
57102 2001 OJ_{71}	15.5	X	125.39939	213.50842	140.55546	6.86348	0.1453494	0.26562530	2.3967520	21	—	—
57103 2001 OF_{72}	16.0	X	152.38663	34.75846	310.26509	1.21023	0.2148991	0.26827981	2.3809159	21	1 12.8	19.4
57104 2001 OH_{72}	13.9	X	176.27867	112.59902	334.72070	7.06543	0.0741621	0.28379218	2.2933435	21	6 7.6	17.1
57105 2001 OJ_{72}	15.9	X	253.78210	336.01680	35.86575	1.41673	0.2012292	0.28491918	2.2872919	21	5 14.5	19.4
57106 2001 OQ_{73}	15.5	X	192.06896	103.35527	219.25085	3.98965	0.1994173	0.27250275	2.3562541	21	1 18.8	19.3
57107 2001 OF_{74}	15.8	X	183.31549	79.67024	301.23428	7.11960	0.1828150	0.27873406	2.3210047	21	3 19.9	19.6
57108 2001 OS_{74}	12.6	X	340.14797	121.26002	274.68609	12.53363	0.1551483	0.19824377	2.9129723	21	10 31.8	16.1
57109 2001 OW_{74}	15.9	X	238.35390	90.63018	145.19450	24.93255	0.0165832	0.36802074	1.9285069	21	—	—
57110 2001 OV_{79}	14.7	X	209.50154	251.45228	182.61692	24.08000	0.3243198	0.23717747	2.5847612	21	6 19.4	20.0
57111 2001 OQ_{80}	13.5	X	131.08563	109.47196	293.77847	12.68198	0.1915030	0.22148215	2.7054752	21	3 2.3	17.8
57112 2001 OC_{81}	13.5	X	99.56035	62.41817	310.22299	7.74282	0.1722803	0.21255851	2.7806760	21	—	—
57113 2001 OY_{83}	16.0	X	255.48459	350.56564	43.95234	7.65483	0.1511127	0.29161073	2.2521659	21	6 22.2	19.1
57114 2001 OY_{85}	15.4	X	275.72789	42.46594	312.72825	3.01992	0.2284009	0.23715909	2.5848948	21	5 14.4	19.3
57115 2001 OS_{87}	14.0	X	157.91302	157.27805	284.36446	22.55135	0.1519783	0.18390008	3.0625376	21	5 17.7	19.2
57116 2001 OW_{92}	16.2	X	168.90672	343.49153	322.21857	13.63192	0.1226694	0.36836620	1.9273009	21	—	—
57117 2001 OU_{93}	16.2	X	285.32170	347.91121	45.39647	4.65106	0.1097438	0.29553665	2.2321763	21	8 12.4	18.6
57118 2001 OF_{95}	15.1	X	116.60967	191.85671	157.96344	14.44715	0.2331505	0.26450201	2.4035329	21	—	—
57119 2001 OJ_{97}	15.7	X	214.82117	257.44236	105.00752	7.46355	0.1549998	0.28128897	2.3069291	21	4 1.5	19.3
57120 2001 OX_{97}	13.6	X	238.37844	307.74520	118.82105	14.66228	0.1148178	0.19303774	2.9651129	21	7 19.8	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57121 2001 OK_{98}	15.4	X	233.05818	7.97302	26.41983	4.23959	0.2279743	0.23705612	2.5856432	21	5 23.4	19.8
57122 2001 OS_{99}	15.7	X	85.15413	60.39747	312.04737	1.67324	0.2090581	0.26487838	2.4012555	21	—	—
57123 2001 OV_{100}	15.5	X	178.17998	358.09696	342.74688	6.61467	0.1522130	0.27444482	2.3451251	21	1 27.7	18.9
57124 2001 OJ_{101}	13.4	X	44.06040	312.82600	158.55155	1.11144	0.1328972	0.17462106	3.1700904	21	2 3.1	17.2
57125 2001 OA_{103}	13.2	X	216.35951	187.90620	301.29396	12.25109	0.0206055	0.19552525	2.9399108	21	9 15.9	17.6
57126 2001 OM_{106}	15.5	X	322.60980	7.20208	305.77824	6.55434	0.2128488	0.29011103	2.2599208	21	5 20.0	17.7
57127 2001 OV_{106}	15.5	X	294.29199	88.37144	312.20321	7.11170	0.1059771	0.29441575	2.2378382	21	9 3.9	17.7
57128 2001 PG	14.3	X	202.20719	180.38302	262.45314	11.02816	0.1373018	0.23742859	2.5829384	21	6 30.5	18.3
57129 2001 PO	14.3	X	155.77193	229.45654	240.37329	21.17566	0.0683437	0.23684902	2.5871502	21	6 14.4	18.2
57130 2001 PE_{5}	13.7	X	223.80890	296.17807	105.63798	12.28584	0.0913086	0.18889866	3.0082699	21	6 6.3	18.3
57131 2001 PF_{6}	15.4	X	69.25436	31.38918	26.81719	3.82977	0.1717278	0.26616550	2.3935080	21	—	—
57132 2001 PO_{6}	14.1	X	167.38479	109.09020	343.46090	9.05409	0.1083681	0.18603516	3.0390606	21	6 8.4	19.0
57133 2001 PV_{6}	14.9	X	49.41767	181.50820	213.37553	3.30559	0.1041047	0.21153163	2.7896679	21	—	—
57134 2001 PX_{6}	14.9	X	135.71976	128.78772	322.25490	8.06673	0.0829985	0.23126314	2.6286439	21	4 25.7	18.9
57135 2001 PB_{7}	15.6	X	227.73920	74.99998	285.83757	5.22623	0.1469890	0.28177434	2.3042791	21	4 5.3	19.3
57136 2001 PE_{23}	15.2	X	71.04015	103.68393	327.62451	5.04124	0.2245261	0.26877168	2.3780102	21	1 9.5	16.8
57137 2001 PH_{23}	15.9	X	142.94994	33.16172	4.33661	7.46184	0.1509152	0.27730680	2.3289618	21	3 3.5	19.1
57138 2001 PU_{25}	15.6	X	8.10446	282.82571	104.84171	6.31127	0.1216746	0.25479824	2.4641762	21	12 23.4	18.2
57139 2001 PU_{26}	14.6	X	118.34001	44.41758	350.63737	5.84751	0.0482163	0.22175142	2.7032847	21	1 24.3	18.3
57140 Gaddi	15.8	X	47.80970	200.76733	188.19791	2.98340	0.1831848	0.26017341	2.4301184	21	—	—
57141 2001 PG_{32}	15.9	X	8.33848	40.58821	49.49432	9.34873	0.1630163	0.26370030	2.4084019	21	—	—
57142 2001 PO_{35}	15.8	X	169.74238	162.67972	246.45364	11.41916	0.1060737	0.28039426	2.3118339	21	4 7.4	19.2
57143 2001 PC_{37}	14.5	X	111.85954	21.31282	62.58022	8.92838	0.2267759	0.22590136	2.6700751	21	4 14.8	18.4
57144 2001 PJ_{43}	15.6	X	79.16957	243.99820	176.27472	6.44515	0.0912302	0.27135377	2.3629007	21	—	—
57145 2001 PV_{43}	16.4	X	343.05446	271.59577	88.99403	6.75089	0.1215485	0.29921703	2.2138346	21	10 13.6	18.3
57146 2001 PC_{46}	14.9	X	123.66030	31.48374	27.05086	14.98567	0.0784791	0.22600329	2.6692723	21	3 10.6	18.7
57147 2001 PB_{49}	16.1	X	269.04464	298.87219	53.95067	8.15713	0.1674682	0.28779024	2.2720541	21	5 9.6	19.0
57148 2001 PX_{57}	15.7	X	79.80737	155.46565	322.27265	4.80865	0.1687236	0.27617781	2.3353046	21	3 26.1	18.2
57149 2001 PF_{59}	13.5	X	204.68842	256.40891	143.48823	24.24284	0.2254362	0.18173272	3.0868389	21	5 17.1	19.3
57150 2001 QA_{1}	15.8	X	93.24332	70.60636	315.10782	6.80068	0.1406409	0.26671926	2.3901939	21	—	—
57151 2001 QY_{1}	14.8	X	213.65978	204.36700	225.94879	3.27897	0.1898531	0.23625485	2.5914862	21	6 23.5	19.1
57152 2001 QL_{2}	13.4	X	171.15526	23.31317	343.88530	19.27531	0.0932062	0.17656408	3.1467903	21	3 2.5	18.2
57153 2001 QB_{4}	15.2	X	85.23243	301.98514	134.54958	5.27206	0.2030018	0.27233271	2.3572348	21	2 11.7	17.3
57154 2001 QL_{7}	15.7	X	224.70055	228.05702	149.45853	3.05884	0.2519694	0.28319649	2.2965583	21	4 23.8	19.6
57155 2001 QM_{8}	15.4	X	122.52377	51.31601	320.19158	4.96354	0.1231248	0.26919497	2.3755167	21	—	—
57156 2001 QM_{10}	15.7	X	2.11607	55.96988	342.73576	1.82459	0.1985687	0.25463994	2.4651974	21	—	—
57157 2001 QW_{11}	15.3	X	187.46025	231.60293	155.87292	5.04947	0.1743320	0.27902668	2.3193817	21	4 5.9	19.0
57158 2001 QF_{14}	15.7	X	234.83107	276.38275	63.53637	4.48138	0.1580696	0.28188561	2.3036727	21	3 20.9	19.2
57159 2001 QM_{15}	15.4	X	166.12171	297.18649	110.96457	5.68024	0.1450446	0.27948834	2.3168269	21	4 11.8	18.8
57160 2001 QW_{15}	15.0	X	246.47957	1.87156	19.69926	3.74571	0.1901950	0.23739643	2.5831716	21	5 22.5	19.1
57161 2001 QX_{15}	14.7	X	86.46836	43.87920	346.74812	7.85389	0.2222740	0.21556776	2.7547372	21	—	—
57162 2001 QM_{16}	15.1	X	270.93107	305.08305	108.37220	5.73636	0.1875093	0.24358131	2.5392575	21	8 2.8	18.5
57163 2001 QL_{17}	15.3	X	86.30945	347.48613	85.59197	4.12253	0.1569169	0.27221187	2.3579324	21	2 2.0	17.6
57164 2001 QO_{17}	14.8	X	210.25100	303.11696	127.33654	8.53149	0.1753670	0.23868994	2.5738306	21	6 21.7	19.0
57165 2001 QK_{18}	16.1	X	281.57393	242.90117	145.88256	3.64872	0.1665117	0.24196163	2.5505767	21	7 16.3	19.2
57166 2001 QN_{18}	15.6	X	113.71432	9.14039	348.41237	10.23851	0.0960308	0.26556995	2.3970850	21	—	—
57167 2001 QV_{18}	15.4	X	123.69729	212.42302	145.30094	6.02069	0.1563283	0.26664779	2.3906210	21	—	—
57168 2001 QE_{19}	16.6	X	261.85899	38.40012	318.34437	2.28310	0.0595238	0.28604465	2.2812883	21	5 19.8	19.4
57169 2001 QN_{19}	14.7	X	163.69387	124.90934	320.14845	5.13409	0.0785038	0.23351802	2.6116950	21	5 22.4	18.6
57170 2001 QB_{20}	15.4	X	238.75418	358.18535	51.06065	1.92641	0.1472164	0.23838712	2.5760099	21	6 24.5	19.3
57171 2001 QT_{20}	15.3	X	227.59727	51.60042	334.10570	5.11570	0.2191794	0.28323969	2.2963247	21	5 4.8	19.2
57172 2001 QY_{20}	14.8	X	293.26721	185.60269	172.47378	15.27923	0.1113046	0.23999620	2.5644829	21	6 29.0	18.4
57173 2001 QE_{22}	14.7	X	174.39936	246.92685	168.38537	12.66057	0.1691895	0.22865724	2.6485778	21	5 4.0	19.2
57174 2001 QZ_{22}	15.1	X	159.30790	319.49480	61.37051	4.32704	0.2522932	0.22402566	2.6849582	21	3 14.2	19.7
57175 2001 QD_{24}	15.6	X	40.27424	287.70139	111.89651	3.09332	0.2060670	0.25884914	2.4383997	21	—	—
57176 2001 QP_{24}	14.1	X	13.02578	173.65955	353.41951	11.75818	0.0996891	0.27476966	2.3432765	21	2 4.6	16.7
57177 2001 QV_{24}	15.9	X	60.52249	206.23728	117.55734	4.74820	0.1898872	0.30436463	2.1888026	21	12 27.4	18.9
57178 2001 QC_{25}	15.2	X	192.82033	258.26617	115.46890	4.85796	0.2288297	0.22762313	2.6565936	21	3 30.5	19.8
57179 2001 QW_{25}	15.1	X	69.29847	262.35045	124.86486	7.93795	0.2269770	0.26062377	2.4273181	21	—	—
57180 2001 QK_{27}	14.8	X	193.67349	340.38744	149.99496	13.89419	0.0975504	0.24395313	2.5366767	21	8 25.6	18.3
57181 2001 QU_{28}	15.0	X	138.29429	5.88592	28.28568	2.24895	0.1855546	0.21967582	2.7202858	21	3 4.9	19.2
57182 2001 QA_{29}	14.5	X	126.56700	147.77635	215.22696	2.80358	0.0659862	0.21415700	2.7668219	21	—	—
57183 2001 QG_{29}	14.2	X	256.80331	189.25965	168.86508	8.71623	0.3056228	0.18425018	3.0586569	21	4 28.6	19.4
57184 2001 QP_{29}	14.0	X	242.31498	197.31582	189.65197	11.76743	0.1689183	0.23315284	2.6144213	21	5 29.5	18.2
57185 2001 QB_{30}	14.5	X	102.37183	9.88488	20.56560	7.46683	0.2159097	0.21365852	2.7711237	21	1 25.2	18.2
57186 2001 QK_{30}	14.7	X	116.66690	350.41044	17.53063	6.95163	0.1281396	0.26292584	2.4131290	21	—	—
57187 2001 QP_{30}	14.3	X	152.59015	306.13628	66.58560	2.93991	0.0928422	0.21852936	2.7297918	21	2 12.5	18.3
57188 2001 QW_{30}	14.6	X	87.53703	333.03132	23.39261	7.00864	0.1356055	0.25736512	2.4477643	21	—	—
57189 2001 QX_{30}	14.5	X	110.50836	349.98640	37.81311	5.70678	0.1616751	0.21407992	2.7674860	21	1 23.5	18.2
57190 2001 QM_{31}	14.7	X	233.52348	259.62632	131.39646	3.95587	0.2294597	0.23358000	2.6112329	21	5 21.4	19.0
57191 2001 QY_{31}	13.9	X	274.66111	339.08469	45.26048	11.66828	0.2316411	0.18796793	3.0181921	21	6 21.4	18.5
57192 2001 QO_{33}	16.0	X	87.19573	272.79252	141.76092	9.77386	0.2600172	0.26954645	2.3734512	21	1 23.3	18.1
57193 2001 QF_{34}	16.1	X	93.36027	267.44007	104.75244	0.30130	0.2254753	0.26455838	2.4031915	21	—	—
57194 2001 QP_{34}	15.8	X	129.26823	148.91974	258.78173	1.46272	0.2278180	0.27571277	2.3379298	21	3 8.7	18.9
57195 2001 QV_{40}	15.4	X	228.98575	115.99779	312.12802	5.24591	0.2716252	0.24104694	2.5570249	21	6 29.5	19.7
57196 2001 QS_{42}	15.4	X	255.53409	78.75177	336.60951	4.96538	0.1997723	0.24348828	2.5399042	21	7 16.0	19.0
57197 2001 QL_{44}	14.8	X	75.60046	317.11325	109.37498	3.09166	0.2193982	0.22002709	2.7173898	21	1 27.7	17.4
57198 2001 QO_{46}	14.4	X	137.62470	245.95849	220.76316	1.20870	0.2382435	0.18464547	3.0542901	21	6 6.5	19.4
57199 2001 QS_{47}	15.2	X	56.41307	110.69710	303.71171	6.35487	0.1164683	0.26589627	2.3951234	21	—	—
57200 2001 QS_{51}	15.5	X	69.53981	39.36838	12.77109	6.60752	0.2532163	0.21635943	2.7480133	21	1 2.4	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57201 2001 QL_{52}	14.4	X	51.84837	63.29049	332.39735	5.91786	0.0714735	0.21208559	2.7848081	21	—	—
57202 2001 QJ_{53}	15.5	X	129.13676	36.63373	23.36101	4.24578	0.1566881	0.27580696	2.3373975	21	3 17.5	18.4
57203 2001 QC_{54}	15.7	X	162.61146	30.09824	1.75235	4.50666	0.1765790	0.27649965	2.3334920	21	3 18.1	19.0
57204 2001 QD_{54}	14.9	X	211.02302	358.37869	59.57847	3.65819	0.3004569	0.18529966	3.0470972	21	6 2.7	20.4
57205 2001 QM_{55}	15.8	X	231.08338	21.81826	6.26664	6.92465	0.1264426	0.28588764	2.2821234	21	5 16.8	19.1
57206 2001 QS_{56}	16.2	X	250.86681	42.24168	352.82674	5.49479	0.0922541	0.29034059	2.2587295	21	6 25.7	19.1
57207 2001 QY_{56}	16.2	X	281.29526	286.47839	112.63465	7.39334	0.1112970	0.29462718	2.2367675	21	8 13.5	18.7
57208 2001 QB_{57}	14.8	X	51.72713	350.84410	83.64574	4.68626	0.1788581	0.21705843	2.7421104	21	—	—
57209 2001 QV_{58}	14.7	X	134.78341	213.51911	176.17797	8.01507	0.2216542	0.22426812	2.6830228	21	2 25.4	18.7
57210 2001 QK_{59}	15.3	X	141.27072	182.32308	197.12699	6.08278	0.1335084	0.26959880	2.3731439	21	2 1.3	18.6
57211 2001 QL_{60}	15.4	X	256.77151	72.00100	334.80972	6.61655	0.1490716	0.29051560	2.2578222	21	7 13.4	18.4
57212 2001 QM_{60}	13.8	X	140.04531	98.22043	14.10260	12.25198	0.0450190	0.18527544	3.0473627	21	5 27.9	18.4
57213 2001 QO_{60}	16.2	X	221.91370	263.49229	102.28768	5.01138	0.1357712	0.28147378	2.3059192	21	4 11.8	19.7
57214 2001 QC_{63}	14.6	X	146.97281	250.45094	155.47711	15.02321	0.2448637	0.17519095	3.1632118	21	4 7.5	20.0
57215 2001 QA_{65}	15.7	X	279.92293	261.35323	85.79611	5.53488	0.1555071	0.28678473	2.2773618	21	5 17.7	18.5
57216 2001 QD_{65}	15.3	X	122.80888	240.49844	121.38158	6.87651	0.1492313	0.26519398	2.3993500	21	—	—
57217 2001 QJ_{66}	15.3	X	257.52754	93.82837	298.15508	4.46246	0.1636463	0.28866104	2.2674824	21	6 19.9	18.3
57218 2001 QY_{69}	15.5	X	185.53792	103.84842	277.14929	5.46169	0.1454044	0.27737798	2.3285634	21	3 21.3	19.1
57219 2001 QY_{71}	14.0	X	104.24409	41.06022	6.22219	15.21916	0.1445427	0.21753905	2.7380701	21	2 10.3	17.8
57220 2001 QG_{72}	14.0	X	144.25960	6.19772	9.85341	17.46280	0.1001024	0.21978756	2.7193638	21	2 14.4	18.2
57221 2001 QN_{74}	15.3	X	317.94274	137.67998	205.58794	2.92492	0.1501609	0.23872647	2.5735681	21	7 11.9	18.1
57222 2001 QW_{74}	15.5	X	295.18886	321.54284	353.84300	6.81423	0.2306111	0.28333503	2.2958096	21	4 8.8	18.5
57223 2001 QZ_{74}	14.2	X	172.93319	356.14410	17.18497	7.33152	0.2342620	0.17267678	3.1938420	21	3 18.7	19.6
57224 2001 QF_{75}	15.0	X	242.99159	254.45139	20.49684	13.42601	0.1168220	0.26839971	2.3802068	21	1 9.7	18.8
57225 2001 QG_{75}	15.0	X	295.75021	336.04787	19.91744	6.75974	0.1701303	0.23686390	2.5870419	21	6 20.2	18.3
57226 2001 QN_{75}	14.4	X	345.04657	268.32640	22.22072	14.70982	0.0738937	0.23397014	2.6083294	21	6 19.5	17.8
57227 2001 QR_{75}	14.6	X	230.19012	202.37429	166.60436	2.56789	0.1165614	0.22860373	2.6489911	21	4 27.8	18.5
57228 2001 QY_{75}	13.9	X	3.46553	269.99710	27.60011	13.22228	0.1674959	0.23864177	2.5741770	21	8 13.4	16.6
57229 2001 QF_{76}	14.0	X	185.00678	36.68322	23.14499	13.27721	0.1819378	0.17737687	3.1371700	21	5 15.4	19.4
57230 2001 QK_{77}	14.7	X	356.46188	191.44282	177.76458	4.92433	0.2023389	0.24608660	2.5219941	21	11 16.7	16.9
57231 2001 QS_{77}	14.1	X	184.41982	249.12264	47.12441	5.87314	0.0578782	0.21103967	2.7940016	21	—	—
57232 2001 QD_{78}	14.2	X	142.40123	165.94732	226.19948	10.52956	0.0839291	0.21775944	2.7362223	21	2 18.5	18.3
57233 2001 QU_{79}	14.9	X	170.62401	270.75497	45.24211	7.32114	0.1040983	0.26311722	2.4119587	21	—	—
57234 2001 QV_{79}	15.1	X	299.70624	188.65933	192.08315	1.13298	0.1370147	0.23887139	2.5725271	21	8 6.8	17.9
57235 2001 QD_{80}	14.3	X	341.59477	257.11816	32.39973	15.42274	0.0714212	0.23225982	2.6211185	21	6 10.9	17.7
57236 2001 QG_{80}	13.6	X	194.23430	331.71219	17.56992	12.31989	0.1698153	0.22082129	2.7108704	21	3 4.5	18.1
57237 2001 QL_{80}	14.2	X	159.40264	106.41370	21.71707	5.66377	0.1420777	0.23052200	2.6342752	21	7 18.7	18.4
57238 2001 QW_{80}	15.6	X	36.13400	30.25507	291.11920	6.02961	0.1981162	0.29967517	2.2115777	21	11 24.7	18.1
57239 2001 QD_{81}	15.6	X	279.88593	35.10401	289.19550	6.41045	0.1328246	0.28287202	2.2983141	21	4 14.6	18.9
57240 2001 QB_{83}	15.2	X	274.54623	82.12455	258.25147	3.69391	0.1868460	0.28351802	2.2948217	21	4 25.3	18.5
57241 2001 QC_{83}	15.9	X	102.78490	55.68093	264.10904	2.94462	0.1594999	0.30717813	2.1754170	21	—	—
57242 2001 QK_{83}	14.9	X	265.94489	49.93040	341.40279	13.18484	0.1643222	0.23749092	2.5824864	21	7 1.8	18.8
57243 2001 QH_{84}	14.4	X	157.67275	102.50189	353.41293	14.40974	0.1013736	0.22933718	2.6433403	21	5 29.2	18.7
57244 2001 QK_{84}	16.3	X	293.79389	209.61815	179.30231	3.78731	0.0941183	0.29621904	2.2287468	21	8 19.3	18.5
57245 2001 QQ_{84}	14.5	X	299.30231	343.58339	48.29760	1.51684	0.2503949	0.19030654	2.9934148	21	8 1.6	18.2
57246 2001 QW_{84}	15.8	X	158.86356	352.57286	91.97377	6.43715	0.1285850	0.28492207	2.2872765	21	5 19.5	19.0
57247 2001 QD_{86}	14.0	X	101.87353	278.18905	112.90684	16.44465	0.0958539	0.16928171	3.2364038	21	1 15.1	18.5
57248 2001 QT_{91}	14.3	X	158.08471	103.54162	320.33225	28.32711	0.3292654	0.23024444	2.6363917	21	4 19.8	19.7
57249 2001 QW_{93}	13.7	X	130.35818	316.10124	332.59457	14.44477	0.1325862	0.20536664	2.8452218	21	—	—
57250 2001 QQ_{94}	15.7	X	11.93102	267.25205	177.91237	2.09335	0.0686472	0.26156341	2.4215014	21	—	—
57251 2001 QO_{96}	15.0	X	223.08156	83.00158	351.81331	7.20319	0.1786513	0.23654923	2.5893357	21	7 10.3	19.2
57252 2001 QS_{96}	13.4	X	105.06076	172.55979	1.36023	13.84518	0.0902329	0.23555296	2.5966316	21	7 16.7	17.3
57253 2001 QT_{99}	13.7	X	93.58682	55.88611	73.75854	27.41314	0.1883532	0.17621231	3.1509769	21	5 21.4	18.3
57254 2001 QO_{103}	14.9	X	62.55588	86.29052	7.44284	3.43039	0.0365532	0.22271404	2.6954895	21	1 22.7	18.4
57255 2001 QR_{103}	15.8	X	356.12178	298.80280	34.01919	6.26229	0.1955882	0.29640394	2.2278198	21	9 30.2	17.1
57256 2001 QF_{104}	14.9	X	284.03461	52.95507	345.18340	4.80606	0.2216080	0.24190695	2.5509610	21	7 25.5	18.0
57257 2001 QG_{104}	15.2	X	289.16752	4.22824	9.32735	5.61830	0.1779046	0.24083848	2.5585002	21	7 5.1	18.4
57258 2001 QX_{104}	15.2	X	316.64157	100.08072	239.86367	7.52774	0.1430405	0.23817236	2.5775582	21	7 5.1	18.0
57259 2001 QO_{105}	14.8	X	85.87073	351.40993	1.92180	5.04251	0.1236718	0.20682834	2.8318007	21	—	—
57260 2001 QE_{106}	15.0	X	205.47339	193.45686	246.59632	10.76015	0.2123477	0.23687736	2.5869439	21	6 26.9	19.4
57261 2001 QO_{106}	16.1	X	134.62148	233.11582	192.94423	6.74655	0.0884358	0.27842807	2.3227049	21	3 20.7	19.0
57262 2001 QS_{106}	14.8	X	53.18819	153.09810	283.35199	9.56082	0.1165529	0.26706036	2.3881582	21	—	—
57263 2001 QM_{109}	14.7	X	174.25897	341.96978	59.99793	9.61217	0.1763372	0.17862752	3.1225098	21	4 20.7	19.9
57264 2001 QP_{113}	13.6	X	211.13864	59.35599	4.97860	10.13565	0.1184920	0.18509572	3.0493350	21	6 17.5	18.5
57265 2001 QR_{119}	15.5	X	13.24322	327.74013	91.28464	3.65395	0.1578548	0.25825885	2.4421138	21	—	—
57266 2001 QM_{121}	16.3	X	264.56837	90.32585	349.30814	6.04119	0.1208229	0.29812501	2.2192375	21	9 14.6	18.5
57267 2001 QE_{122}	15.4	X	262.12081	332.49730	79.37107	3.85911	0.1712945	0.24331748	2.5410927	21	7 22.7	18.9
57268 2001 QP_{123}	16.0	X	101.38640	8.55509	64.62349	3.88658	0.1086735	0.27451698	2.3447142	21	2 19.3	18.6
57269 2001 QJ_{131}	14.2	X	52.13134	294.86265	173.81005	21.64256	0.0969297	0.22230581	2.6987884	21	1 27.2	17.7
57270 2001 QT_{134}	15.0	X	82.71089	96.41507	311.41442	8.03866	0.1681012	0.21450898	2.7637944	21	1 9.4	18.1
57271 2001 QC_{137}	14.0	X	281.71845	128.69003	277.86456	8.39240	0.0673927	0.19097825	2.9863918	21	8 20.0	18.2
57272 2001 QE_{137}	14.6	X	163.39538	96.11542	2.26384	25.28813	0.2622353	0.17857189	3.1231582	21	6 15.6	20.5
57273 2001 QR_{137}	14.3	X	268.57918	41.00437	314.65033	8.07182	0.1100354	0.23357862	2.6112432	21	5 21.6	18.1
57274 2001 QQ_{138}	15.3	X	295.10466	284.07551	305.94323	5.53347	0.0675029	0.26851493	2.3795258	21	1 12.0	18.4
57275 2001 QE_{139}	14.5	X	330.41974	358.70526	333.62016	12.47072	0.2448737	0.24026846	2.5625452	21	7 10.6	16.9
57276 2001 QP_{139}	12.9	X	2.96113	60.05451	298.44063	9.51159	0.1624687	0.19621910	2.9329762	21	10 22.1	16.5
57277 2001 QV_{139}	14.2	X	140.70728	73.80872	283.72417	7.92642	0.1737100	0.21497114	2.7598318	21	1 19.9	18.3
57278 2001 QZ_{140}	15.3	X	117.71359	27.57479	299.18130	6.68628	0.1443806	0.25850525	2.4405618	21	—	—
57279 2001 QU_{147}	14.6	X	216.64914	179.37793	127.99658	14.65376	0.1045350	0.21962081	2.7207401	21	1 29.2	18.7
57280 2001 QO_{148}	16.5	X	288.78404	267.42431	68.84025	10.04263	0.0070264	0.28651278	2.2788027	21	6 6.7	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57281 2001 QP_{148}	14.9	X	298.18789	282.86434	81.03628	8.57515	0.2105894	0.24123488	2.5556967	21	6 28.5	17.8
57282 2001 QX_{155}	15.9	X	328.01010	114.41208	303.90481	4.98394	0.1164865	0.25287214	2.4766733	21	11 25.3	18.4
57283 2001 QZ_{156}	16.2	X	204.24491	136.75284	287.42194	4.57540	0.1375983	0.28677929	2.2773906	21	6 7.4	19.5
57284 2001 QB_{157}	15.6	X	129.13362	220.00578	177.65253	8.77203	0.0368512	0.27425864	2.3461864	21	1 25.7	18.7
57285 2001 QR_{158}	15.2	X	117.38805	60.21845	328.70309	9.20142	0.2124400	0.21931665	2.7232550	21	2 7.6	18.9
57286 2001 QQ_{159}	16.1	X	160.59331	259.25414	144.09278	6.28343	0.1287902	0.27766507	2.3269580	21	3 28.7	19.4
57287 2001 QC_{163}	15.6	X	222.51102	73.62862	342.91347	4.35727	0.1943606	0.23709345	2.5853718	21	6 13.6	19.9
57288 2001 QZ_{163}	13.8	X	49.95055	184.92117	1.55705	9.95691	0.0312357	0.17802494	3.1295518	21	5 6.0	18.1
57289 2001 QP_{165}	15.7	X	108.33045	327.72860	72.82913	7.58629	0.1022908	0.27115999	2.3640263	21	1 14.0	18.5
57290 2001 QM_{169}	13.4	X	147.45807	92.72078	273.61359	17.39111	0.0826760	0.16990067	3.2285386	21	1 30.4	18.4
57291 2001 QQ_{172}	14.2	X	149.41474	238.82776	215.15771	10.82490	0.1514013	0.18370160	3.0647432	21	5 27.4	19.1
57292 2001 QV_{174}	13.9	X	350.22158	256.53691	136.86311	11.77204	0.3481592	0.19876352	2.9078920	21	12 13.1	16.3
57293 2001 QY_{178}	15.1	X	61.73672	280.97860	142.14598	6.12968	0.0910144	0.26274339	2.4142460	21	—	—
57294 2001 QC_{179}	15.0	X	72.46983	240.47488	142.20619	6.63139	0.1058055	0.25817108	2.4426673	21	—	—
57295 2001 QX_{181}	14.1	X	223.07429	55.82813	351.32297	10.66244	0.1476757	0.18430243	3.0580788	21	6 5.1	19.1
57296 2001 QE_{186}	14.6	X	260.19735	150.40012	284.40670	13.39003	0.1328349	0.24366032	2.5387086	21	8 19.8	18.2
57297 2001 QB_{188}	14.8	X	273.87037	210.22851	237.36246	9.77587	0.1337121	0.24747737	2.5125365	21	9 28.1	18.0
57298 2001 QE_{193}	14.8	X	245.61275	103.22842	289.47420	10.82880	0.0298613	0.23714513	2.5849962	21	6 24.9	18.4
57299 2001 QM_{194}	14.9	X	17.11414	232.86651	235.33731	10.75351	0.1106947	0.21404711	2.7677688	21	—	—
57300 2001 QP_{196}	15.9	X	210.76868	237.15354	201.35474	4.38914	0.2541923	0.23772408	2.5807975	21	6 28.1	20.4
57301 2001 QY_{197}	14.9	X	52.04760	278.64564	245.87909	6.10036	0.0444603	0.27458071	2.3443513	21	3 31.6	17.6
57302 2001 QE_{198}	14.9	X	80.39859	67.24639	327.70009	4.38601	0.1443716	0.21054385	2.7983863	21	—	—
57303 2001 QL_{198}	14.0	X	313.92177	145.66827	234.89281	8.56172	0.1283642	0.19102370	2.9859181	21	8 24.2	17.8
57304 2001 QV_{198}	14.1	X	206.42541	176.14001	199.19837	7.12512	0.1731607	0.17662795	3.1460317	21	4 14.1	19.4
57305 2001 QJ_{199}	13.5	X	244.55682	14.90870	51.11334	10.56810	0.0518409	0.18570385	3.0426741	21	8 6.8	18.0
57306 2001 QB_{200}	15.0	X	237.45827	38.80686	270.62268	2.89408	0.0791325	0.22138014	2.7063063	21	2 21.0	19.1
57307 2001 QS_{200}	14.0	X	291.09544	355.59615	53.45280	10.78351	0.0807254	0.18951545	3.0017392	21	9 12.8	18.2
57308 2001 QL_{201}	15.7	X	162.37647	327.53457	177.54380	23.94682	0.1605162	0.29067132	2.2570158	21	8 10.4	19.6
57309 2001 QT_{206}	15.7	X	222.74279	61.82809	25.95998	2.64161	0.1422667	0.24188425	2.5511206	21	7 29.4	19.5
57310 2001 QE_{211}	15.9	X	203.32088	242.57883	209.84545	2.76583	0.1108032	0.23907806	2.5710443	21	7 15.4	19.7
57311 2001 QR_{214}	15.9	X	234.97470	86.74415	342.46547	7.53128	0.0789263	0.29098315	2.2554030	21	7 27.8	18.7
57312 2001 QM_{216}	15.6	X	55.85872	55.09831	22.46653	4.34010	0.0653368	0.26742831	2.3859672	21	—	—
57313 2001 QM_{220}	16.5	X	233.48795	227.67714	180.30056	5.52911	0.0859876	0.28751596	2.2734989	21	6 22.2	19.6
57314 2001 QK_{226}	14.5	X	129.78560	215.82066	285.23612	5.87005	0.0722838	0.23648241	2.5898234	21	6 26.9	18.0
57315 2001 QC_{233}	16.1	X	129.38075	226.09552	172.51498	3.61167	0.0434344	0.27255016	2.3559808	21	1 29.7	19.0
57316 2001 QD_{233}	14.5	X	240.61984	265.51740	172.79291	8.42612	0.2169277	0.19016537	2.9948961	21	7 24.9	19.5
57317 2001 QF_{235}	15.8	X	65.69882	216.22263	175.88335	0.94021	0.1922835	0.26130339	2.4231075	21	—	—
57318 2001 QT_{237}	15.2	X	23.68217	243.51850	156.76880	3.16057	0.1933128	0.25617593	2.4553336	21	—	—
57319 2001 QX_{237}	15.3	X	152.89828	93.01686	355.40249	13.25117	0.1485621	0.23045786	2.6347639	21	5 16.5	19.6
57320 2001 QN_{239}	15.5	X	38.87187	271.12264	148.09563	3.15493	0.1598744	0.26218647	2.4176635	21	—	—
57321 2001 QV_{239}	15.0	X	310.77848	340.24651	176.51648	5.99806	0.0803184	0.26222780	2.4174095	21	—	—
57322 2001 QX_{239}	15.4	X	213.52932	242.18799	201.26436	6.98120	0.1603062	0.23719694	2.5846197	21	7 10.7	19.6
57323 2001 QN_{240}	13.9	X	5.90145	128.66105	338.36466	9.08032	0.1487060	0.21110114	2.7934592	21	—	—
57324 2001 QX_{240}	15.7	X	87.60436	157.29090	335.38431	3.25740	0.0537469	0.22947048	2.6423164	21	4 17.1	19.0
57325 2001 QS_{241}	15.6	X	339.42429	317.24787	166.60652	8.87064	0.1136887	0.26195325	2.4190983	21	—	—
57326 2001 QY_{241}	15.6	X	63.95291	115.05163	6.95475	4.74882	0.0908770	0.27345246	2.3507954	21	2 25.9	17.9
57327 2001 QY_{242}	16.6	X	130.18438	256.89045	6.70334	4.65436	0.0777212	0.30452514	2.1880334	21	12 15.3	19.5
57328 2001 QC_{243}	16.1	X	226.98933	22.26150	167.95729	8.01571	0.0430720	0.25665226	2.4522947	21	12 29.4	19.4
57329 2001 QE_{245}	15.4	X	149.89010	265.17908	170.25977	13.57379	0.1449069	0.22763465	2.6565039	21	5 4.6	19.7
57330 2001 QR_{245}	14.4	X	145.13633	241.75255	180.07497	14.65845	0.0801974	0.22570747	2.6716040	21	4 4.2	18.2
57331 2001 QU_{245}	14.5	X	165.92956	269.65122	183.71903	25.38807	0.2301889	0.18024059	3.1038518	21	6 13.2	20.3
57332 2001 QL_{246}	14.5	X	117.18939	59.78015	10.75984	14.00659	0.1913165	0.22122990	2.7075314	21	3 28.0	18.2
57333 2001 QX_{246}	14.8	X	161.90238	304.79397	164.94211	13.46562	0.1964042	0.23180514	2.6245449	21	6 27.8	19.4
57334 2001 QH_{252}	15.3	X	282.48945	17.49998	36.91104	2.92004	0.2177787	0.24515907	2.5283512	21	8 16.3	18.2
57335 2001 QY_{254}	14.7	X	132.45049	49.53074	22.41744	12.03806	0.1736409	0.22847755	2.6499664	21	4 11.8	18.6
57336 2001 QN_{256}	15.9	X	168.72543	294.61551	127.53223	6.98896	0.0856099	0.28011150	2.3133895	21	4 29.5	19.2
57337 2001 QD_{257}	15.3	X	81.34627	43.67739	32.94390	7.35468	0.0981065	0.26895076	2.3769545	21	1 23.8	18.0
57338 2001 QT_{259}	15.1	X	237.66218	154.34731	200.61687	11.25590	0.2478460	0.23185680	2.6241551	21	4 8.4	19.5
57339 2001 QG_{260}	15.4	X	335.33038	221.14188	269.37192	5.53812	0.0997014	0.26227239	2.4171355	21	—	—
57340 2001 QF_{262}	14.8	X	112.17689	156.79991	295.12744	7.94825	0.1329739	0.22508685	2.6765127	21	4 5.1	18.7
57341 2001 QR_{263}	13.8	X	97.25741	161.95814	329.37370	14.93065	0.2273762	0.17519689	3.1631402	21	5 25.3	18.8
57342 2001 QJ_{264}	14.7	X	103.83771	274.13905	153.34346	9.52543	0.1226191	0.26751722	2.3854385	21	2 16.3	17.3
57343 2001 QH_{269}	14.1	X	252.26341	135.40376	300.69421	13.99399	0.1588903	0.24166189	2.5526853	21	8 10.8	17.8
57344 2001 QN_{269}	14.6	X	120.02731	318.50034	92.25276	4.30946	0.0917505	0.21859189	2.7292712	21	2 22.3	18.4
57345 2001 QG_{275}	16.1	X	46.03753	324.37050	106.31580	4.66116	0.1371195	0.26692964	2.3889378	21	—	—
57346 2001 QV_{277}	15.5	X	22.02963	267.19329	92.81974	6.88134	0.1355532	0.25293300	2.4762760	21	12 8.9	18.4
57347 2001 QQ_{279}	14.3	X	342.26509	240.29306	89.22392	13.07945	0.0594365	0.19463462	2.9488724	21	8 13.7	18.2
57348 2001 QW_{281}	13.5	X	5.78624	331.77805	301.78624	18.28128	0.2432951	0.23920574	2.5701293	21	7 8.4	15.3
57349 2001 QC_{282}	14.5	X	289.55405	308.92534	83.09700	14.80583	0.1656993	0.24119034	2.5560113	21	8 5.7	17.8
57350 2001 QU_{285}	14.7	X	10.69790	61.64183	38.77248	9.98489	0.1130068	0.21434875	2.7651715	21	—	—
57351 2001 QC_{287}	15.9	X	80.92638	236.92619	196.74149	5.65864	0.0753702	0.27060382	2.3672644	21	1 12.2	18.6
57352 2001 QP_{287}	15.4	X	118.03842	217.37023	182.69013	6.59793	0.1008835	0.27064878	2.3670022	21	1 24.8	18.4
57353 2001 QM_{288}	13.8	X	217.97083	130.75085	247.40875	12.83875	0.0467574	0.18275235	3.0753466	21	5 1.3	18.4
57354 2001 QB_{292}	15.3	X	244.69436	177.72502	215.81112	2.72843	0.1416779	0.23537153	2.5979658	21	6 11.0	19.1
57355 2001 QJ_{292}	14.5	X	40.79945	230.39270	211.09778	11.74483	0.0760409	0.21140377	2.7907926	21	—	—
57356 2001 QG_{293}	13.5	X	138.08046	75.96632	274.42694	22.22401	0.2355622	0.26484684	2.4014461	21	1 5.8	16.9
57357 2001 QZ_{296}	14.9	X	275.85647	198.76951	196.47314	4.24188	0.0728683	0.23855452	2.5748047	21	7 31.4	18.3
57358 2001 QB_{297}	15.4	X	178.90359	316.00567	29.06629	7.21846	0.0820417	0.26941101	2.3742466	21	1 29.9	18.8
57359 Robcrawford	13.6	X	267.81897	74.20014	18.36429	22.18496	0.1249492	0.24040681	2.5615620	21	10 3.8	16.7
57360 2001 RJ_4	15.1	X	16.01071	178.87052	298.28349	6.64228	0.1564655	0.26798529	2.3826600	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57361 2001 RE_{17}	15.0	X	0.66151	319.15024	162.69155	5.89389	0.0580400	0.21443311	2.7644463	21	—	—
57362 2001 RO_{20}	15.5	X	170.50014	266.93664	170.39321	5.25467	0.1898058	0.28266492	2.2994366	21	5 24.7	19.2
57363 2001 RD_{25}	15.9	X	30.74037	249.32172	180.61947	2.50970	0.0951543	0.26310492	2.4120339	21	—	—
57364 2001 RU_{27}	16.2	X	31.85063	77.28543	347.49291	0.75461	0.1683616	0.26246464	2.4159550	21	—	—
57365 2001 RJ_{33}	15.5	X	106.90726	232.46687	271.16249	5.95753	0.1308672	0.28730623	2.2746052	21	6 7.8	18.2
57366 2001 RA_{35}	16.0	X	200.07672	230.91289	187.69692	6.22104	0.1078474	0.28580119	2.2825836	21	5 28.3	19.3
57367 2001 RM_{43}	14.5	X	307.38600	31.32308	30.27582	8.43343	0.2518708	0.19556700	2.9394924	21	9 28.9	17.6
57368 2001 RP_{44}	14.1	X	181.41597	251.72851	151.96805	14.44388	0.3029850	0.17550344	3.1594558	21	5 2.4	20.0
57369 2001 RK_{45}	14.7	X	223.76020	190.09118	243.45464	3.14751	0.2043014	0.18615220	3.0377866	21	7 5.7	19.6
57370 2001 RO_{45}	15.5	X	203.56334	236.66443	145.43399	5.27675	0.1404310	0.22911673	2.6450356	21	4 18.2	19.7
57371 2001 RB_{48}	14.1	X	46.78941	214.67840	192.07331	5.75350	0.0485386	0.21048162	2.7989379	21	—	—
57372 2001 RK_{48}	15.4	X	39.24861	326.45547	173.46052	5.84499	0.0956085	0.27050982	2.3678128	21	2 6.8	17.7
57373 2001 RX_{52}	15.4	X	119.96348	328.76180	99.86316	3.90635	0.1598890	0.22471562	2.6794596	21	3 25.7	19.2
57374 2001 RZ_{52}	14.3	X	167.72842	69.02375	29.79686	5.66738	0.1642859	0.18568850	3.0428418	21	6 18.8	19.3
57375 2001 RK_{53}	15.7	X	44.75429	344.46752	107.04522	7.24017	0.0771549	0.26788841	2.3832344	21	—	—
57376 2001 RK_{64}	15.3	X	241.89055	189.86559	248.38410	7.04097	0.1572614	0.24043857	2.5613364	21	8 1.8	19.2
57377 2001 RS_{64}	15.7	X	165.93401	236.05595	271.14671	5.51442	0.0771229	0.29079115	2.2563957	21	8 17.2	18.8
57378 2001 RD_{66}	14.6	X	79.23887	262.47086	219.47413	9.71404	0.1265365	0.22404615	2.6847946	21	4 1.7	18.0
57379 2001 RS_{66}	15.3	X	97.82151	184.97893	301.33816	6.03153	0.0658120	0.27789339	2.3256833	21	4 17.5	18.1
57380 2001 RY_{66}	15.2	X	347.58694	259.53624	265.94918	5.55015	0.0472669	0.26846606	2.3798146	21	—	—
57381 2001 RL_{68}	16.1	X	119.92636	18.75707	235.47644	6.38314	0.0896200	0.30085725	2.2057810	21	11 21.5	19.2
57382 2001 RS_{68}	13.9	X	256.78456	194.87938	239.22611	8.98536	0.0749447	0.19167254	2.9791757	21	8 21.3	18.3
57383 2001 RP_{70}	13.7	X	255.01452	49.88800	329.27828	8.03786	0.0963301	0.18548622	3.0450536	21	6 10.1	18.3
57384 2001 RR_{70}	15.4	X	18.62621	244.62955	308.75326	6.38337	0.0658350	0.27646899	2.3336646	21	3 18.8	17.9
57385 2001 RU_{70}	14.1	X	226.75652	209.20437	240.21776	7.79216	0.0586502	0.18933792	3.0036153	21	8 7.5	18.6
57386 2001 RX_{71}	14.7	X	108.01806	91.49205	4.16505	11.69043	0.1946995	0.17242697	3.1969260	21	4 19.3	19.5
57387 2001 RG_{72}	15.8	X	228.57541	343.53162	331.89000	6.13987	0.1262648	0.27402372	2.3475271	21	2 11.9	19.3
57388 2001 RQ_{72}	14.4	X	175.35990	97.70706	358.98866	4.15416	0.1383647	0.23254041	2.6190096	21	6 22.5	18.6
57389 2001 RV_{75}	15.6	X	208.74030	196.49611	163.48182	2.92618	0.1951424	0.27564773	2.3382975	21	3 20.6	19.3
57390 2001 RT_{76}	14.7	X	283.90733	140.47227	80.27369	5.64000	0.0369617	0.26363330	2.4088100	21	—	—
57391 2001 RB_{77}	13.9	X	238.07727	205.64009	195.75895	15.77768	0.1650953	0.18253501	3.0777872	21	6 13.1	19.0
57392 2001 RW_{77}	14.7	X	106.15774	325.98238	211.84313	14.40669	0.0713737	0.23522536	2.5990420	21	7 13.5	18.6
57393 2001 RS_{78}	14.8	X	238.86116	247.27193	130.44084	2.79880	0.1085329	0.23019607	2.6367611	21	5 18.9	18.6
57394 2001 RD_{84}	15.6	X	106.92504	140.65042	321.76421	3.64962	0.0584392	0.27814978	2.3242539	21	3 28.0	18.3
57395 2001 RX_{84}	16.1	X	12.24102	171.03434	325.00685	7.31354	0.0862181	0.27004353	2.3705377	21	—	—
57396 2001 RS_{86}	15.9	X	116.67074	274.81619	187.13938	5.84712	0.0716266	0.27767985	2.3268754	21	4 14.8	18.8
57397 2001 RU_{86}	15.0	X	110.78577	94.83304	350.20935	3.54289	0.0789514	0.22443284	2.6817098	21	3 21.6	18.5
57398 2001 RN_{87}	15.9	X	274.90943	355.49137	190.05795	5.98747	0.0314638	0.26220444	2.4175531	21	—	—
57399 2001 RL_{89}	15.3	X	211.97549	65.97710	24.74699	4.88627	0.1685365	0.23804067	2.5785088	21	7 20.7	19.4
57400 2001 RR_{90}	16.0	X	327.13226	288.80714	134.90870	5.51023	0.0915738	0.25223505	2.4808419	21	12 3.1	18.7
57401 2001 RB_{93}	15.4	X	202.49913	229.93444	178.44574	3.93305	0.1498134	0.23149497	2.6268887	21	5 18.8	19.5
57402 2001 RR_{94}	15.0	X	341.85862	206.66528	205.99002	8.12854	0.1132948	0.25172066	2.4842205	21	12 13.0	17.7
57403 2001 RG_{95}	13.6	X	79.00060	59.59631	100.02609	13.24907	0.1095480	0.22732965	2.6588795	21	5 25.2	17.1
57404 2001 RG_{101}	15.6	X	222.78386	325.26348	99.39613	4.67781	0.1768868	0.23816524	2.5776095	21	6 25.7	19.5
57405 2001 RS_{109}	16.0	X	215.14227	81.52203	357.10950	7.44919	0.1230049	0.23920850	2.5701096	21	7 11.4	20.0
57406 2001 RT_{110}	16.6	X	352.08201	297.91728	137.85984	4.26195	0.0406563	0.30905274	2.1666112	21	—	—
57407 2001 RB_{112}	15.9	X	350.75501	16.42505	122.48169	1.99542	0.1186658	0.26724297	2.3870702	21	—	—
57408 2001 RC_{115}	15.8	X	271.64704	74.23104	1.86132	6.11820	0.1879864	0.24500304	2.5294245	21	9 4.9	18.8
57409 2001 RT_{120}	16.0	X	8.00505	61.70142	62.78118	2.28557	0.1342282	0.26652822	2.3913359	21	—	—
57410 2001 RD_{126}	16.1	X	279.42040	40.11670	11.04340	10.76890	0.0912653	0.29416767	2.2390962	21	9 4.3	18.5
57411 2001 RC_{128}	15.5	X	261.45420	35.92009	35.07185	5.35221	0.1191108	0.24360517	2.5390917	21	8 27.0	18.8
57412 2001 RP_{150}	15.0	X	65.81777	306.90569	114.73213	15.43168	0.2052421	0.21765467	2.7371004	21	—	—
57413 2001 SE	16.1	X	330.93221	37.29195	329.60218	2.14226	0.2151089	0.29566172	2.2315467	21	9 19.1	17.1
57414 2001 SJ	14.6	X	264.62386	29.84063	3.58210	7.42842	0.1979218	0.23919436	2.5702109	21	6 26.8	18.4
57415 2001 SD_{1}	14.8	X	83.54984	227.32151	203.79439	4.39341	0.1449921	0.21776308	2.7361919	21	2 3.8	18.2
57416 2001 SL_{1}	15.2	X	214.26106	202.26740	204.44722	4.25172	0.1727742	0.18324936	3.0697835	21	5 28.3	20.2
57417 2001 ST_{1}	15.8	X	203.49098	112.35503	336.46262	3.20745	0.0434452	0.23778329	2.5803691	21	7 15.8	19.2
57418 2001 SE_{4}	15.6	X	338.30741	77.20801	257.94554	3.10822	0.2156612	0.29277761	2.2461779	21	8 8.7	16.7
57419 2001 SJ_{5}	16.1	X	142.90965	275.36298	168.04591	4.80257	0.1512092	0.22809601	2.6529206	21	5 6.3	20.1
57420 2001 SE_{7}	16.1	X	13.36364	284.98102	138.48649	1.45257	0.1535082	0.25929529	2.4356019	21	—	—
57421 2001 SY_{8}	14.7	X	78.88151	209.85404	196.21878	7.90413	0.2211808	0.21385620	2.7694157	21	1 6.3	17.8
57422 2001 SR_{9}	14.7	X	282.37671	155.70636	295.40710	0.85813	0.0868087	0.19475238	2.9476836	21	10 18.3	18.5
57423 2001 SW_{20}	15.5	X	72.95054	40.61527	106.56846	3.22255	0.0218662	0.22778323	2.6553486	21	4 15.1	19.0
57424 Caelumnoctu	13.8	X	236.56089	45.26096	353.30213	9.67291	0.0948441	0.18640102	3.0350827	21	6 13.7	18.6
57425 2001 SR_{22}	14.5	X	106.48956	280.87772	188.24640	25.48637	0.2751360	0.17428415	3.1741744	21	5 18.4	19.8
57426 2001 SW_{26}	14.7	X	116.70084	346.09275	91.71413	0.24106	0.1981452	0.17268658	3.1937211	21	4 10.5	19.5
57427 2001 SD_{28}	15.1	X	255.05486	97.05831	14.56891	14.08450	0.2335532	0.19516609	2.9435165	21	9 21.6	19.5
57428 2001 SW_{31}	14.3	X	275.49561	326.46045	83.64057	2.33384	0.1375109	0.19123302	2.9837387	21	8 9.9	18.4
57429 2001 SX_{33}	14.4	X	61.38875	278.50280	135.94115	0.94886	0.0644164	0.21296753	2.7771145	21	—	—
57430 2001 SJ_{38}	14.8	X	255.43593	115.44665	60.44672	3.36773	0.1193702	0.25633714	2.4543040	21	—	—
57431 2001 SB_{39}	14.5	X	16.94957	266.31227	133.25139	2.83749	0.0850175	0.20440456	2.8541426	21	—	—
57432 2001 SM_{40}	15.3	X	117.76357	117.28652	46.80914	6.92924	0.0976608	0.28505145	2.2865843	21	7 18.4	18.4
57433 2001 SE_{42}	15.8	X	21.55352	289.71426	148.75798	6.32958	0.0843333	0.26119780	2.4237605	21	—	—
57434 2001 SH_{46}	15.2	X	261.35971	207.56783	93.66616	3.18858	0.2268701	0.27931075	2.3178088	21	2 19.8	18.9
57435 2001 SQ_{47}	15.5	X	48.79010	30.64112	49.84454	7.02823	0.0997683	0.26447753	2.4036812	21	—	—
57436 2001 SA_{50}	15.1	X	205.25080	302.30480	164.00350	11.77642	0.1159071	0.23842142	2.5757628	21	8 3.5	19.2
57437 2001 SB_{52}	15.3	X	202.22578	40.61513	40.26038	12.34337	0.1493220	0.23426690	2.6061261	21	6 27.9	19.6
57438 2001 SM_{52}	15.6	X	187.21036	233.76465	155.16571	6.22408	0.0672810	0.22666451	2.6640786	21	4 9.6	19.5
57439 2001 SJ_{53}	15.2	X	245.58291	285.35158	150.88997	4.05058	0.0674297	0.24015434	2.5633569	21	8 17.9	18.6
57440 2001 SR_{53}	15.1	X	244.45552	266.37999	156.41506	5.60242	0.0902931	0.23822202	2.5771999	21	7 25.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57441 2001 SW_{53}	15.6	X	220.95160	52.58819	60.94941	5.38480	0.1203492	0.24075315	2.5591047	21	9 3.4	19.3
57442 2001 SF_{54}	15.3	X	178.89841	115.11639	138.97506	5.54890	0.0766071	0.25773268	2.4454365	21	—	—
57443 2001 SM_{54}	14.1	X	274.95190	309.92009	50.92192	10.74145	0.0430928	0.18539054	3.0461013	21	6 18.5	18.4
57444 2001 SM_{55}	14.6	X	174.56912	255.58932	162.04713	8.92130	0.1096915	0.22753080	2.6573123	21	5 4.6	18.8
57445 2001 SE_{56}	14.6	X	165.91038	359.78082	132.37846	2.82039	0.2639373	0.18253208	3.0778203	21	7 29.5	20.0
57446 2001 SM_{56}	14.9	X	228.87818	249.95939	155.19293	7.14319	0.2142169	0.18362791	3.0655631	21	6 6.4	20.0
57447 2001 SQ_{58}	14.9	X	158.62111	78.15702	31.99611	3.77071	0.0425532	0.23292076	2.6161577	21	6 17.9	18.5
57448 2001 SV_{58}	14.8	X	98.42250	16.32998	39.23729	7.10154	0.0673948	0.21693880	2.7431184	21	1 29.1	18.5
57449 2001 SA_{65}	14.1	X	274.29018	34.34948	37.38060	11.42668	0.0974282	0.19202842	2.9754937	21	9 16.4	18.2
57450 2001 SU_{69}	14.8	X	251.97890	146.58748	138.66914	7.07378	0.1024638	0.27006825	2.3703930	21	1 29.5	18.1
57451 2001 SV_{69}	14.5	X	302.26162	147.34355	185.70576	14.34650	0.1363281	0.23419859	2.6066328	21	6 4.9	18.1
57452 2001 SX_{69}	15.7	X	221.09678	194.74721	140.87080	7.32544	0.1561548	0.27355107	2.3502304	21	3 2.3	19.3
57453 2001 SL_{70}	15.3	X	33.30312	142.40739	126.14201	6.92472	0.1098094	0.28654545	2.2786294	21	8 18.1	17.4
57454 2001 SZ_{70}	15.3	X	344.78376	238.81563	89.64189	8.03457	0.1630627	0.28947653	2.2632219	21	8 22.0	17.0
57455 2001 SJ_{71}	15.1	X	184.74661	204.40641	154.84022	7.15380	0.1317569	0.27014060	2.3699698	21	2 24.0	18.7
57456 2001 SK_{71}	14.3	X	211.55527	297.97881	107.52541	8.35421	0.1422428	0.17878915	3.1206275	21	5 26.9	19.3
57457 2001 SC_{72}	14.2	X	254.65991	317.22549	121.93917	5.14887	0.1232160	0.18754167	3.0227637	21	8 23.4	18.6
57458 2001 SX_{73}	15.1	X	32.69892	67.10396	39.49865	9.55753	0.1951061	0.26609303	2.3939425	21	—	—
57459 2001 SC_{74}	14.7	X	359.85288	250.16810	295.63461	6.48922	0.1308536	0.27217072	2.3581700	21	1 31.6	17.1
57460 2001 SA_{75}	15.7	X	61.70401	244.87437	347.50028	6.33243	0.0646701	0.28797945	2.2710588	21	8 3.4	18.3
57461 2001 SY_{75}	14.6	X	82.34979	177.88047	160.54210	2.31469	0.0810145	0.20453241	2.8529531	21	—	—
57462 2001 SZ_{75}	15.2	X	199.30116	332.07714	43.63938	5.89248	0.0810155	0.27555255	2.3388359	21	4 1.2	18.4
57463 2001 SB_{76}	14.8	X	68.88549	73.33320	74.28307	2.92824	0.0999184	0.22343900	2.6896559	21	4 20.3	18.0
57464 2001 SY_{93}	16.5	X	55.57446	265.06460	221.90293	1.99629	0.1156221	0.27351542	2.3504346	21	2 17.8	18.6
57465 2001 SH_{108}	14.4	X	132.38951	226.58899	249.31667	12.91533	0.0793846	0.22615172	2.6681042	21	5 28.3	18.1
57466 2001 SU_{108}	15.1	X	295.31663	347.45647	334.19727	6.37027	0.1311303	0.27999037	2.3140566	21	5 2.6	18.1
57467 2001 SZ_{108}	14.2	X	159.41712	107.80888	270.20330	11.79693	0.1984653	0.21868888	2.7284642	21	2 27.7	18.8
57468 2001 SF_{111}	13.9	X	275.95947	7.61681	17.25776	11.54655	0.1193529	0.18474564	3.0531859	21	7 12.8	18.4
57469 2001 SA_{115}	15.2	X	134.89852	347.25201	185.16556	5.14613	0.1962273	0.23728448	2.5839840	21	8 20.9	19.5
57470 2001 ST_{115}	16.1	X	30.11647	123.15466	189.85003	6.31384	0.1792358	0.29845006	2.2176258	21	11 2.8	18.3
57471 Mariemarsina	14.3	X	184.82964	313.02701	114.95066	6.30785	0.1630913	0.18188692	3.0850940	21	5 28.9	19.4
57472 2001 SO_{124}	15.4	X	196.94585	154.92523	246.38643	2.59615	0.1685160	0.23160550	2.6260529	21	5 3.3	19.7
57473 2001 SE_{127}	15.8	X	358.53300	251.70951	185.51498	4.81091	0.0811715	0.25881379	2.4386217	21	—	—
57474 2001 SL_{129}	15.8	X	161.95665	195.29525	213.66151	5.86170	0.1083566	0.27693696	2.3310349	21	4 1.7	19.1
57475 2001 SO_{132}	15.8	X	135.13200	292.86790	201.05623	4.40596	0.0888080	0.28490092	2.2873896	21	6 24.5	19.0
57476 2001 SB_{134}	15.9	X	305.82803	150.26128	313.24537	2.61183	0.0307364	0.25506495	2.4624582	21	12 24.7	18.8
57477 2001 SU_{151}	15.4	X	229.19682	202.60001	209.33099	4.05099	0.1756122	0.18504770	3.0498625	21	6 16.6	20.2
57478 2001 SW_{151}	15.2	X	140.52728	226.37558	200.20817	6.52527	0.0890652	0.27510628	2.3413646	21	3 29.5	18.2
57479 2001 SD_{153}	16.5	X	154.89534	41.06528	227.49655	3.52127	0.1747719	0.30876363	2.1679635	21	—	—
57480 2001 SO_{153}	14.2	X	51.75855	47.26322	327.67205	1.22571	0.0815999	0.20659001	2.8339782	21	—	—
57481 2001 ST_{153}	14.9	X	233.36113	108.55177	356.46903	4.41025	0.1422723	0.24025950	2.5626089	21	9 1.6	18.7
57482 2001 SH_{154}	15.1	X	307.64639	319.78156	195.14049	6.60413	0.0367852	0.21103703	2.7940249	21	—	—
57483 2001 SU_{155}	15.0	X	310.41625	179.57850	221.20927	1.22636	0.1028362	0.19420758	2.9531937	21	9 21.8	18.7
57484 2001 ST_{159}	15.6	X	112.26265	186.62483	324.14292	5.70610	0.0559794	0.28225553	2.3016595	21	6 14.1	18.6
57485 2001 SN_{161}	15.1	X	185.62410	62.93538	350.27233	3.61633	0.0894292	0.22885531	2.6470494	21	5 6.0	19.0
57486 2001 SH_{163}	15.2	X	28.11088	343.05162	205.37722	4.74944	0.2127139	0.27416707	2.3467087	21	4 1.1	16.6
57487 2001 SN_{163}	15.4	X	335.04885	260.73238	199.80086	6.20011	0.0815485	0.25608921	2.4558879	21	—	—
57488 2001 ST_{163}	15.3	X	83.28416	93.07775	339.80404	2.80293	0.1350970	0.21676414	2.7445918	21	2 6.6	18.4
57489 2001 SN_{173}	15.5	X	261.83302	181.51709	38.25381	6.46167	0.0278373	0.26409882	2.4059785	21	—	—
57490 2001 ST_{175}	15.7	X	320.55920	41.04840	127.89018	3.18022	0.1564991	0.26358064	2.4091308	21	—	—
57491 2001 SY_{176}	15.2	X	43.42468	122.61229	169.55753	8.05845	0.0433697	0.24296970	2.5435170	21	9 23.2	18.2
57492 2001 SR_{179}	16.0	X	296.40524	355.21477	5.52173	6.19526	0.2149974	0.29332845	2.2433649	21	6 19.0	18.5
57493 2001 SR_{185}	15.6	X	45.63474	42.11458	44.94738	3.01745	0.1618776	0.26638876	2.3921704	21	—	—
57494 2001 SM_{199}	15.0	X	205.54425	332.48875	23.22280	2.96951	0.0323307	0.22750754	2.6574934	21	3 17.6	18.5
57495 2001 SS_{211}	14.8	X	138.96733	98.44538	26.87875	13.17196	0.1508297	0.23341899	2.6124336	21	6 23.1	19.1
57496 2001 SB_{234}	15.7	X	342.15165	170.82194	36.32915	7.62814	0.0615741	0.27408670	2.3471674	21	2 16.9	18.5
57497 2001 SP_{235}	14.7	X	237.79675	25.47619	185.09999	2.39074	0.1486860	0.25898872	2.4375236	21	—	—
57498 2001 SE_{239}	16.2	X	358.84001	12.95094	176.14985	8.02582	0.0852860	0.27367517	2.3495198	21	2 8.4	18.8
57499 2001 SX_{239}	14.9	X	58.21249	346.77807	101.11477	6.18984	0.1316816	0.21439159	2.7648032	21	1 16.9	17.8
57500 2001 SM_{244}	14.6	X	29.28830	194.43793	50.44154	14.04892	0.0969198	0.23468295	2.6030451	21	6 30.8	17.8
57501 2001 SE_{250}	15.6	X	291.34469	357.52680	130.59735	3.35161	0.0539274	0.25373779	2.4710372	21	—	—
57502 2001 SK_{252}	15.7	X	274.46970	333.80405	189.39900	5.50154	0.0885360	0.25556477	2.4592465	21	—	—
57503 2001 ST_{252}	15.8	X	183.28341	308.90637	93.73828	2.33968	0.0139911	0.27722800	2.3294031	21	4 14.9	18.7
57504 2001 SL_{265}	15.5	X	274.26461	290.60491	328.77732	1.59746	0.0206570	0.27015812	2.3698673	21	1 29.7	18.4
57505 2001 SK_{266}	15.2	X	149.48736	176.13468	203.36798	3.61244	0.1115660	0.21929623	2.7234241	21	2 16.8	19.2
57506 2001 SK_{268}	13.9	X	154.49779	29.13373	59.85723	10.90697	0.0795394	0.17686648	3.1432025	21	5 21.3	18.6
57507 2001 SM_{268}	14.7	X	51.65577	290.29572	85.76033	3.19612	0.1065397	0.20448045	2.8534364	21	—	—
57508 2001 SN_{270}	14.8	X	310.89752	276.91176	81.81031	14.95579	0.2368983	0.24203806	2.5500397	21	7 8.2	17.5
57509 Sly	14.9	X	312.77095	192.93151	144.91883	13.18796	0.1918688	0.23699390	2.5860958	21	6 19.5	18.0
57510 2001 SG_{280}	15.1	X	286.18847	149.58368	169.18126	2.87932	0.0891000	0.23065750	2.6332434	21	4 30.9	18.6
57511 2001 ST_{280}	14.9	X	355.08949	202.98336	171.98510	2.37133	0.0758413	0.19735632	2.9216982	21	10 30.2	18.6
57512 2001 SL_{281}	14.3	X	258.13073	3.47129	229.47271	8.01710	0.1118896	0.26462217	2.4028052	21	—	—
57513 2001 SS_{281}	13.9	X	257.33439	52.29504	324.14160	8.79026	0.1134605	0.18417393	3.0595011	21	6 7.1	18.5
57514 2001 SU_{281}	14.9	X	308.12505	152.65131	227.83069	14.43003	0.1360793	0.24144831	2.5541904	21	8 14.8	18.1
57515 2001 SX_{281}	14.1	X	185.58831	275.82185	165.89878	25.84171	0.2495356	0.17986776	3.1081394	21	6 16.1	20.0
57516 2001 SZ_{281}	14.2	X	126.52900	284.64060	145.58268	22.45222	0.0326097	0.22270625	2.6955524	21	3 20.3	18.1
57517 2001 SV_{285}	15.0	X	318.12419	251.64731	130.44423	13.99551	0.1716611	0.24402892	2.5361515	21	9 12.6	17.6
57518 2001 SB_{286}	12.7	X	100.62926	211.83519	86.52204	15.32948	0.2164653	0.20286209	2.8685920	21	12 19.6	17.5
57519 2001 SV_{287}	14.6	X	125.83941	24.87330	125.71968	12.80283	0.1774470	0.23506445	2.6002279	21	7 15.1	18.5
57520 2001 SB_{289}	14.3	X	96.07374	351.81246	156.82220	14.31262	0.2249587	0.22442696	2.6817566	21	6 17.7	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57521 2001 SD_{289}	16.0	X	210.91378	246.18849	100.98210	5.78927	0.1679031	0.27528568	2.3403473	21	3 8.8	19.7
57522 2001 SR_{290}	14.5	X	71.66518	220.70917	179.40914	17.57107	0.1497791	0.21057471	2.7981129	21	—	—
57523 2001 ST_{290}	14.7	X	210.12565	229.05721	171.88272	15.44006	0.1121785	0.22948330	2.6422181	21	5 20.2	19.0
57524 2001 SX_{291}	14.2	X	107.96103	276.59164	184.85196	21.47711	0.0618857	0.22241773	2.6978830	21	4 7.8	17.8
57525 2001 SC_{316}	14.5	X	217.31298	37.84299	331.80039	11.25087	0.0770628	0.22532228	2.6746480	21	4 11.0	18.7
57526 2001 SD_{316}	14.0	X	91.95639	15.10149	5.92452	16.76295	0.2542514	0.20995257	2.8036379	21	1 5.5	17.7
57527 2001 SN_{316}	14.2	X	262.83619	34.43867	306.30842	13.02077	0.1115949	0.22755316	2.6571382	21	4 20.7	18.4
57528 2001 SM_{343}	14.8	X	199.67075	342.43999	68.06158	14.91966	0.0931992	0.23219228	2.6216268	21	5 19.9	18.7
57529 2001 SX_{344}	14.4	X	218.89712	256.35484	151.78022	22.47023	0.1526318	0.18366199	3.0651839	21	6 7.7	19.7
57530 2001 SZ_{345}	14.1	X	265.05679	229.23542	141.46140	13.71853	0.1579852	0.18430196	3.0580840	21	6 6.3	18.8
57531 2001 SL_{346}	13.6	X	132.02572	251.22481	246.94805	13.06989	0.2406946	0.18351310	3.0668415	21	7 7.8	18.8
57532 2001 TA	13.7	X	274.89854	74.58781	283.93077	11.35140	0.1904559	0.23092245	2.6312288	21	5 22.8	17.6
57533 2001 TT_{2}	15.7	X	152.91285	260.16802	213.93333	2.67159	0.1595320	0.23256557	2.6188207	21	6 23.5	19.9
57534 2001 TP_{8}	14.0	X	191.22251	30.70815	30.60476	12.07103	0.1421963	0.17721814	3.1390430	21	5 23.4	19.2
57535 2001 TN_{9}	16.5	X	170.48968	325.82779	208.61748	5.12531	0.0497725	0.29484771	2.2356520	21	10 2.4	19.5
57536 2001 TA_{13}	14.4	X	134.16361	308.74866	149.15158	25.15568	0.1643462	0.17338149	3.1851818	21	5 24.5	19.9
57537 2001 TQ_{13}	14.9	X	354.54453	205.94331	153.69306	10.52585	0.1727318	0.24513558	2.5285127	21	10 28.2	17.4
57538 2001 TW_{13}	14.5	X	237.07100	36.66106	29.27465	15.36143	0.0768640	0.23961685	2.5671888	21	7 28.2	18.4
57539 2001 TU_{17}	14.2	X	264.96653	183.49329	232.00289	13.01184	0.1419988	0.23951912	2.5678871	21	7 29.9	18.0
57540 2001 TE_{18}	14.0	X	24.15269	315.30039	36.42814	2.60649	0.0882188	0.19694128	2.9258016	21	11 12.1	17.6
57541 2001 TV_{18}	14.2	X	60.43445	152.63440	89.88016	14.60098	0.1149909	0.23676163	2.5877868	21	8 25.4	17.8
57542 2001 TW_{18}	14.8	X	341.98355	98.93883	175.15332	13.68010	0.0926010	0.23145961	2.6271562	21	5 23.9	18.1
57543 2001 TZ_{19}	14.7	X	272.64663	298.38885	350.44437	12.16848	0.1425413	0.22408779	2.6844619	21	3 1.6	18.6
57544 2001 TL_{20}	14.8	X	302.56883	163.31802	279.29969	9.72010	0.1089910	0.19629335	2.9322364	21	10 31.6	18.7
57545 2001 TG_{21}	14.3	X	127.51969	109.02058	14.17481	20.86253	0.0722273	0.17720626	3.1391834	21	5 26.9	19.2
57546 2001 TO_{21}	15.8	X	47.88405	304.53940	90.64417	6.63602	0.0862009	0.25865965	2.4395904	21	—	—
57547 2001 TV_{21}	14.6	X	102.31349	78.01090	71.73652	12.46968	0.0752496	0.23110177	2.6298675	21	6 3.9	18.2
57548 2001 TU_{22}	15.0	X	161.21692	110.23594	11.07077	3.77349	0.0758183	0.23383580	2.6093282	21	7 8.5	18.8
57549 2001 TE_{28}	14.9	X	114.74692	215.91516	287.65166	4.43519	0.0561460	0.23042071	2.6350471	21	6 9.1	18.4
57550 2001 TQ_{28}	15.0	X	178.89072	70.32004	335.40681	6.42672	0.0798580	0.22622397	2.6675361	21	4 17.5	19.0
57551 2001 TE_{29}	15.0	X	153.91423	262.47517	241.74217	4.88507	0.1756886	0.23307792	2.6149815	21	8 1.1	19.3
57552 2001 TM_{31}	14.3	X	321.22899	6.53414	0.68351	8.81615	0.0561867	0.18921686	3.0048963	21	8 31.3	18.2
57553 2001 TP_{34}	16.1	X	282.88622	348.14530	344.42181	2.78623	0.1760615	0.28138634	2.3063969	21	4 26.1	19.0
57554 2001 TS_{36}	14.8	X	256.53310	253.51921	39.49373	22.86353	0.1789025	0.27049838	2.3678795	21	2 20.8	19.0
57555 2001 TM_{37}	13.9	X	355.08160	344.64042	17.39892	10.95972	0.1017384	0.19180742	2.9777788	21	10 12.7	17.6
57556 2001 TO_{38}	14.2	X	147.03233	119.52211	275.15317	11.42118	0.1552545	0.21737248	2.7394687	21	3 4.7	18.7
57557 2001 TH_{39}	15.6	X	40.60562	289.65737	359.63758	7.54252	0.1629937	0.29038295	2.2585098	21	10 8.4	18.0
57558 2001 TA_{46}	14.8	X	131.74410	20.99392	112.10184	2.33527	0.1267077	0.17818859	3.1276354	21	6 24.7	19.7
57559 2001 TY_{46}	15.0	X	88.59164	217.10751	198.01895	3.54231	0.0932301	0.21323727	2.7747720	21	1 16.1	18.4
57560 2001 TB_{47}	14.6	X	191.50031	278.68112	176.14557	1.03711	0.1332674	0.18135701	3.0911007	21	7 5.9	19.4
57561 2001 TA_{48}	16.0	X	174.80518	91.40878	112.70650	8.47767	0.0913494	0.29838434	2.2179514	21	11 18.6	19.1
57562 2001 TS_{48}	14.0	X	237.06589	151.95159	224.22813	13.66023	0.1084173	0.22866989	2.6484802	21	5 14.6	18.0
57563 2001 TT_{49}	15.1	X	209.22938	354.66824	41.01705	14.03682	0.1646051	0.23101419	2.6305322	21	5 7.1	19.2
57564 2001 TV_{49}	14.2	X	234.78647	28.58293	22.89416	24.01922	0.2132640	0.18610319	3.0383200	21	6 14.2	19.6
57565 2001 TB_{52}	14.6	X	193.72148	267.69022	183.81317	11.80878	0.1539926	0.18282771	3.0745015	21	7 2.6	19.8
57566 2001 TU_{54}	16.1	X	351.15577	220.48484	255.57401	3.41671	0.1003556	0.26187456	2.4195829	21	—	—
57567 Crikey	15.0	X	110.25434	249.05587	222.99241	2.56791	0.1570134	0.17367118	3.1816389	21	5 10.3	19.7
57568 2001 TR_{57}	15.7	X	235.05703	358.69057	213.34295	6.20226	0.0864353	0.25948596	2.4344086	21	—	—
57569 2001 TE_{60}	15.8	X	4.60931	119.52183	43.16522	7.10547	0.0531788	0.26899156	2.3767141	21	1 20.1	18.6
57570 2001 TO_{61}	14.5	X	243.05471	178.44948	179.82687	5.60988	0.1669881	0.18069283	3.0986708	21	4 27.3	19.4
57571 2001 TR_{61}	14.8	X	199.28699	329.72090	113.75994	3.98578	0.1627078	0.18244183	3.0788352	21	6 28.5	19.8
57572 2001 TY_{63}	14.5	X	327.57081	191.37174	269.52520	0.95263	0.0304282	0.20449009	2.8533466	21	—	—
57573 2001 TD_{65}	14.8	X	338.09584	353.50789	83.57538	3.21109	0.0395930	0.20262309	2.8708473	21	12 22.8	18.3
57574 2001 TF_{66}	15.2	X	74.68551	162.55218	239.33368	1.72979	0.1068385	0.21101373	2.7942305	21	—	—
57575 2001 TT_{66}	14.6	X	78.34757	278.20241	156.49354	2.44783	0.0510794	0.21579958	2.7527640	21	1 21.6	18.1
57576 2001 TV_{66}	15.3	X	239.65740	327.95560	95.22114	2.49908	0.0996379	0.23639250	2.5904800	21	7 19.6	18.9
57577 2001 TY_{66}	15.1	X	62.81517	241.48960	187.45167	4.51188	0.0532038	0.21281335	2.7784557	21	—	—
57578 2001 TC_{67}	14.5	X	37.62742	281.49773	175.75185	3.92370	0.0639517	0.21272538	2.7792216	21	—	—
57579 2001 TD_{67}	14.4	X	229.28069	15.76429	54.34045	9.22333	0.0675839	0.18550530	3.0448448	21	7 20.6	19.0
57580 2001 TF_{67}	14.5	X	277.05797	21.92594	42.44884	6.98264	0.0545892	0.19132504	2.9827820	21	9 14.7	18.6
57581 2001 TH_{67}	14.8	X	3.32991	282.94543	225.68908	3.13250	0.2282304	0.21229565	2.7829708	21	—	—
57582 2001 TP_{67}	14.4	X	130.22540	243.25055	215.40353	9.71133	0.1989000	0.17388689	3.1790070	21	5 19.1	19.4
57583 2001 TZ_{67}	14.4	X	178.78048	240.95617	162.85732	2.82495	0.1844989	0.17580098	3.1558900	21	4 25.3	19.7
57584 2001 TO_{68}	15.2	X	135.86767	271.52878	201.64416	3.92237	0.0114378	0.22904087	2.6456195	21	5 21.5	18.7
57585 2001 TG_{70}	14.3	X	188.18192	340.80265	111.17305	3.78949	0.1932688	0.18182190	3.0858295	21	6 28.6	19.4
57586 2001 TA_{71}	15.6	X	145.26887	126.78464	242.62738	1.11341	0.1012269	0.21775225	2.7362826	21	1 30.8	19.5
57587 2001 TZ_{73}	14.3	X	142.37425	53.79003	31.40897	11.66783	0.0642675	0.17571606	3.1569067	21	5 1.0	18.9
57588 2001 TB_{74}	14.8	X	333.41027	174.21756	244.69911	1.03118	0.0602986	0.19908313	2.9047789	21	11 22.9	18.3
57589 2001 TH_{74}	14.6	X	109.21303	249.62067	213.64466	5.46404	0.1357971	0.17237322	3.1975906	21	4 25.6	19.3
57590 2001 TJ_{76}	14.3	X	94.52139	24.76933	96.85915	2.12273	0.1533441	0.17182065	3.2044424	21	5 4.2	18.9
57591 2001 TM_{76}	14.7	X	230.28246	348.05361	73.81439	3.53928	0.1884646	0.18383138	3.0633006	21	6 28.8	19.6
57592 2001 TB_{77}	14.6	X	169.87903	303.31650	131.15678	2.24960	0.0538321	0.22793898	2.6541389	21	5 16.7	18.3
57593 2001 TF_{77}	15.2	X	39.99664	218.35973	171.38415	1.59457	0.1306122	0.20421449	2.8559133	21	—	—
57594 2001 TQ_{78}	14.9	X	320.83666	260.84225	75.00559	3.56025	0.0669339	0.23597563	2.5935300	21	7 17.9	17.9
57595 2001 TV_{78}	14.3	X	258.66915	240.69167	61.09153	14.60165	0.1941979	0.22455365	2.6807478	21	3 5.3	18.9
57596 2001 TD_{81}	15.5	X	317.43937	310.10590	218.99231	9.08952	0.1507175	0.26515458	2.3995877	21	—	—
57597 2001 TU_{88}	15.2	X	15.87974	165.08304	9.16879	9.08441	0.0491954	0.22325707	2.6911169	21	3 4.2	18.6
57598 2001 TZ_{95}	15.4	X	332.50072	185.34156	337.16246	4.07237	0.1348498	0.21300878	2.7767560	21	—	—
57599 2001 TK_{96}	15.7	X	44.46607	129.79815	254.83866	1.91835	0.0778681	0.25577640	2.4578898	21	—	—
57600 2001 TM_{96}	14.5	X	111.90961	179.28084	15.77268	11.27639	0.1167974	0.23753425	2.5821723	21	8 26.7	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57601 2001 TY_{96}	14.6	X	116.28707	264.29042	217.43455	23.86232	0.2168679	0.17505132	3.1648936	21	6 3.3	19.8
57602 2001 TA_{102}	14.9	X	120.61845	121.64853	343.37147	6.58161	0.1404903	0.17596687	3.1539062	21	5 8.3	19.7
57603 2001 TM_{102}	14.5	X	27.99161	31.56933	276.72280	12.49318	0.1335034	0.24378877	2.5378167	21	9 27.4	17.7
57604 2001 TF_{105}	14.5	X	313.15793	139.31243	225.77076	12.79600	0.1605412	0.23989137	2.5652299	21	7 29.9	17.6
57605 2001 TA_{106}	14.3	X	52.22251	253.16421	51.10871	10.00705	0.0913065	0.24261106	2.5460230	21	10 30.0	17.6
57606 2001 TU_{110}	14.6	X	138.28592	108.00189	322.57111	4.77514	0.0865800	0.17349792	3.1837567	21	4 9.9	19.4
57607 2001 TZ_{110}	15.2	X	110.12353	254.26968	304.02541	2.60702	0.1382960	0.28736657	2.2742868	21	8 28.5	18.3
57608 2001 TY_{114}	14.9	X	122.60015	286.91887	350.10493	5.90058	0.1583172	0.25114748	2.4879988	21	12 17.1	18.9
57609 2001 TD_{116}	14.5	X	200.31461	80.17556	302.14036	3.15444	0.1063710	0.22471448	2.6794687	21	4 12.2	18.7
57610 2001 TK_{116}	13.4	X	163.36570	70.41604	44.93703	17.16405	0.2427682	0.17716154	3.1397116	21	7 8.1	19.1
57611 2001 TM_{116}	14.4	X	278.35158	115.12054	43.45446	11.19766	0.0733360	0.20116574	2.8846959	21	—	—
57612 2001 TY_{116}	14.2	X	12.25583	284.19617	50.64083	8.59380	0.1670965	0.24088073	2.5582011	21	10 22.6	16.9
57613 2001 TC_{124}	15.6	X	165.70945	270.06217	227.89116	16.10576	0.2210308	0.23630227	2.5911395	21	7 31.3	20.4
57614 2001 TY_{125}	13.9	X	165.09602	200.75169	282.07481	9.50300	0.0881397	0.18443160	3.0566508	21	7 13.7	18.6
57615 2001 TJ_{133}	15.7	X	113.98045	262.98711	106.90620	7.60798	0.1447179	0.26368651	2.4084859	21	—	—
57616 2001 TV_{137}	14.6	X	170.74624	23.78512	78.56171	16.02123	0.0741786	0.23408166	2.6075009	21	6 22.9	18.5
57617 2001 TV_{139}	15.9	X	110.12497	318.94237	133.74890	7.30377	0.0726013	0.27661599	2.3328377	21	3 26.1	18.8
57618 2001 TN_{142}	15.5	X	195.94973	51.48578	79.63200	6.98006	0.1203142	0.24098158	2.5574873	21	8 30.8	19.4
57619 2001 TJ_{147}	15.7	X	328.15123	108.94113	72.21571	8.13284	0.1322115	0.26666659	2.3905086	21	—	—
57620 2001 TV_{147}	15.3	X	331.77177	125.09675	168.23617	9.36845	0.0528317	0.23436863	2.6053719	21	6 6.5	18.7
57621 2001 TN_{151}	14.7	X	224.32873	308.93553	83.71204	6.87790	0.1781075	0.18184130	3.0856100	21	5 20.5	19.7
57622 2001 TY_{151}	15.2	X	143.42488	121.36955	40.86225	22.74442	0.0555454	0.23766404	2.5812321	21	8 22.5	19.4
57623 2001 TB_{153}	14.0	X	114.22707	38.12092	101.63024	7.50884	0.1373244	0.17830049	3.1263267	21	6 15.7	18.6
57624 2001 TZ_{157}	14.5	X	122.40485	268.26486	166.20739	10.25145	0.0858624	0.17141508	3.2094950	21	3 31.9	19.1
57625 2001 TJ_{158}	14.5	X	197.96524	271.79465	71.52201	13.48159	0.0398654	0.22060725	2.7126236	21	2 28.0	18.6
57626 2001 TE_{165}	12.2	X	331.66126	185.04603	118.19976	11.98163	0.0694009	0.08311624	5.2001053	21	6 21.5	18.8
57627 2001 TO_{168}	14.6	X	335.54931	97.30090	282.02794	9.03248	0.0695634	0.19293563	2.9661590	21	9 29.7	18.6
57628 2001 TR_{168}	14.3	X	179.91418	188.75794	302.31979	8.91452	0.1780993	0.18216288	3.0819775	21	8 7.1	19.4
57629 2001 TY_{168}	14.1	X	109.82150	209.38895	251.93709	20.95805	0.0554305	0.22196470	2.7015527	21	3 31.3	18.2
57630 2001 TY_{171}	14.4	X	77.70034	352.37106	63.00275	10.27298	0.1537830	0.21386967	2.7692995	21	1 9.3	17.7
57631 2001 TK_{179}	15.5	X	66.72722	124.34879	13.15800	14.59607	0.0830121	0.22345548	2.6895237	21	3 31.4	18.7
57632 2001 TB_{182}	15.7	X	317.55737	214.12921	355.81633	3.12969	0.1722504	0.26874253	2.3781821	21	—	—
57633 2001 TJ_{182}	14.6	X	229.10187	249.68606	280.24204	5.53415	0.1718106	0.19849672	2.9104970	21	11 7.6	19.1
57634 2001 TR_{182}	14.6	X	274.46510	242.77821	280.80774	6.21745	0.2574899	0.20204071	2.8763614	21	12 15.2	17.9
57635 2001 TF_{183}	15.8	X	329.55938	259.33068	314.68669	4.19287	0.1734943	0.27007470	2.3703553	21	1 18.9	18.5
57636 2001 TT_{187}	14.3	X	201.64660	191.95630	253.75348	9.64942	0.0370457	0.18332042	3.0689901	21	7 7.5	18.8
57637 2001 TH_{189}	15.2	X	137.15764	335.38786	325.54896	5.02873	0.1303213	0.25692214	2.4505771	21	—	—
57638 2001 TL_{190}	15.4	X	258.94192	39.65394	260.46058	4.07140	0.0564950	0.27268048	2.3552301	21	2 26.9	18.5
57639 2001 TO_{190}	15.5	X	178.88659	243.83445	10.24829	4.78556	0.1142147	0.25502081	2.4627423	21	—	—
57640 2001 TC_{191}	14.8	X	88.60640	166.70715	248.35299	10.51365	0.0936539	0.21343186	2.7730852	21	1 14.5	18.5
57641 2001 TW_{191}	14.7	X	201.02943	72.51484	331.32315	4.29042	0.1705330	0.17759366	3.1346165	21	5 11.6	19.9
57642 2001 TH_{196}	14.1	X	90.34393	43.35299	105.21499	13.09609	0.1916796	0.22853520	2.6495207	21	6 6.4	17.8
57643 2001 TV_{199}	15.8	X	108.92355	312.79645	109.31786	7.27004	0.0848431	0.27070337	2.3666840	21	2 11.6	18.6
57644 2001 TV_{201}	12.3	X	296.61774	232.53892	104.11911	12.59209	0.0527315	0.08566228	5.0965502	21	6 17.9	19.0
57645 2001 TK_{202}	14.7	X	118.44229	337.72037	45.11287	12.80294	0.1824255	0.21786929	2.7353026	21	2 1.1	18.7
57646 2001 TO_{202}	13.9	X	194.90331	269.17818	140.45682	14.57248	0.1427287	0.18205459	3.0831995	21	5 19.0	19.1
57647 2001 TL_{203}	14.4	X	152.57236	50.03384	61.59386	15.08809	0.0991414	0.23392028	2.6087000	21	6 15.2	18.3
57648 2001 TM_{203}	13.8	X	109.97557	8.46822	104.68537	12.70769	0.1358316	0.17741304	3.1367437	21	5 12.7	18.6
57649 2001 TG_{210}	14.4	X	24.97390	273.38758	245.07046	10.40629	0.1421035	0.22387378	2.6861725	21	2 14.7	17.6
57650 2001 TH_{217}	15.3	X	49.50245	134.77179	248.22558	3.73370	0.2365251	0.26007939	2.4307041	21	—	—
57651 2001 TQ_{218}	14.7	X	351.93443	38.27065	132.61498	5.74454	0.0975039	0.21719118	2.7409930	21	1 17.7	17.9
57652 2001 TR_{224}	14.5	X	135.23341	293.54047	131.46486	14.55472	0.2760531	0.17437003	3.1731321	21	4 24.8	20.0
57653 2001 TE_{226}	14.4	X	92.40021	6.34075	119.78052	15.69094	0.1700888	0.22644186	2.6658246	21	5 11.3	18.3
57654 2001 TL_{226}	13.5	X	187.85943	237.26140	114.88112	15.87686	0.0387501	0.17393203	3.1784570	21	3 3.8	18.3
57655 2001 TU_{228}	13.1	X	288.41805	333.36716	307.48813	16.14680	0.1726726	0.17769842	3.1333843	21	3 3.3	18.0
57656 2001 TG_{229}	14.6	X	113.65637	222.44279	322.81522	12.86545	0.0985242	0.23582336	2.5946463	21	8 9.5	18.2
57657 2001 TF_{230}	15.6	X	353.73441	329.31771	88.94393	7.82665	0.0852300	0.25462132	2.4653176	21	—	—
57658 Nilrem	15.1	X	54.44890	184.92067	33.03043	13.61741	0.0295423	0.23310068	2.6148113	21	6 23.4	18.7
57659 2001 UP_{4}	14.4	X	188.09739	120.88090	221.82795	14.52885	0.0791988	0.21667096	2.7453786	21	2 6.5	18.8
57660 2001 UY_{6}	15.1	X	333.11228	297.42557	103.19765	1.88718	0.0647236	0.19576561	2.9375038	21	10 30.3	18.8
57661 2001 UQ_{12}	14.6	X	331.71501	173.75734	211.93404	9.38607	0.1015977	0.19305345	2.9649520	21	10 4.9	18.1
57662 2001 UJ_{13}	14.8	X	321.29972	300.18837	124.52577	2.91620	0.0460282	0.19639762	2.9311985	21	11 13.9	18.5
57663 2001 UA_{15}	14.4	X	277.27016	320.47048	53.93357	10.36150	0.1103098	0.18440393	3.0569566	21	6 29.9	18.8
57664 2001 UY_{17}	13.2	X	245.36237	92.19598	308.25289	21.07988	0.2410237	0.18417399	3.0595004	21	6 13.2	18.5
57665 2001 UL_{24}	14.4	X	267.94911	61.55835	303.10382	8.39619	0.1015298	0.18433456	3.0577235	21	6 6.5	18.8
57666 2001 UW_{24}	14.4	X	203.68851	146.44366	294.03347	8.65909	0.0597009	0.18395183	3.0619632	21	7 3.7	19.0
57667 2001 UN_{25}	14.9	X	107.16543	45.57421	349.62439	8.90062	0.1812737	0.21492180	2.7602541	21	2 1.0	18.6
57668 2001 UM_{27}	16.0	X	268.08481	70.18292	147.78165	2.52684	0.1210024	0.26539264	2.3981525	21	—	—
57669 2001 UO_{29}	14.8	X	143.99792	55.35743	56.29928	14.77703	0.1581519	0.22918046	2.6445452	21	6 10.1	19.0
57670 2001 UB_{30}	14.9	X	166.91775	302.41990	106.96330	7.91054	0.2415117	0.17576095	3.1563691	21	4 26.5	20.4
57671 2001 UN_{31}	14.5	X	240.00501	337.77425	109.44639	7.79944	0.0823939	0.18950978	3.0017992	21	8 22.7	18.9
57672 2001 UA_{33}	14.5	X	92.41515	272.17289	180.84336	13.84717	0.0824111	0.16998639	3.2274532	21	3 16.2	19.1
57673 2001 UY_{33}	14.4	X	245.22695	9.65405	70.79517	14.19960	0.1148587	0.23899752	2.5716219	21	8 23.0	18.3
57674 2001 UD_{35}	13.9	X	117.24699	14.19406	64.89371	17.01090	0.1189118	0.17077227	3.2175439	21	4 11.2	18.8
57675 2001 UG_{36}	14.8	X	247.92286	260.83630	71.40624	11.33701	0.0497440	0.22730365	2.6590823	21	4 11.0	18.7
57676 2001 UR_{36}	15.0	X	208.78521	117.26420	112.04619	6.48434	0.0516400	0.20601730	2.8392279	21	—	—
57677 2001 UT_{41}	15.2	X	111.20718	23.47077	178.65448	4.31793	0.1838667	0.23803649	2.5785389	21	9 5.2	19.1
57678 2001 UL_{44}	15.1	X	139.19209	65.71420	50.12480	5.42824	0.1551457	0.17819756	3.1275304	21	6 12.8	20.1
57679 2001 UD_{46}	15.7	X	173.56754	256.35668	48.48801	7.85063	0.0991244	0.26271819	2.4144004	21	—	—
57680 2001 UW_{47}	14.9	X	133.21863	240.01830	125.84865	6.07306	0.0909319	0.21446217	2.7641965	21	1 12.1	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57681 2001 UJ_{48}	14.9	X	22.40273	209.43514	157.84991	2.94410	0.0621062	0.19871893	2.9083269	21	11 27.3	18.7
57682 2001 UO_{48}	14.1	X	229.35551	338.80397	67.22754	15.56852	0.0902876	0.23257093	2.6187805	21	6 14.2	18.0
57683 2001 UK_{53}	15.0	X	203.46268	206.34223	138.53167	2.97863	0.2147466	0.22198436	2.7013932	21	3 3.4	19.6
57684 2001 UG_{58}	15.2	X	238.44095	230.72502	339.24992	2.10365	0.1266653	0.25877199	2.4388843	21	—	—
57685 2001 UK_{58}	15.5	X	0.36553	144.67574	23.77644	7.54854	0.0668525	0.21915181	2.7246204	21	2 2.0	19.0
57686 2001 UL_{65}	14.7	X	350.01127	99.95482	22.16799	3.27454	0.1111266	0.20670167	2.8329575	21	—	—
57687 2001 UL_{66}	14.0	X	219.88708	81.67746	55.31924	11.55660	0.0576494	0.19028456	2.9936453	21	10 6.8	18.4
57688 2001 UH_{73}	14.3	X	76.63202	299.87474	64.93035	13.85928	0.1371418	0.20679848	2.8320733	21	—	—
57689 2001 UM_{73}	15.7	X	273.84384	152.01481	75.15795	2.71373	0.1584467	0.26543630	2.3978895	21	—	—
57690 2001 UA_{74}	14.9	X	301.86906	298.69504	138.64356	3.76583	0.1200755	0.19650648	2.9301159	21	10 27.4	18.4
57691 2001 UH_{74}	14.6	X	106.35363	15.30104	95.29568	2.04346	0.1455820	0.17248048	3.1962648	21	5 3.3	19.3
57692 2001 UG_{75}	16.3	X	307.22479	140.32119	154.74293	3.25047	0.1662591	0.28090877	2.3090102	21	4 9.8	18.9
57693 2001 UD_{76}	14.5	X	233.08371	272.83147	95.40589	3.39846	0.1982365	0.17915534	3.1163738	21	4 28.1	19.6
57694 2001 UU_{76}	15.0	X	42.36905	60.35872	170.14134	4.25708	0.0959014	0.23337383	2.6127706	21	7 1.8	18.1
57695 2001 UK_{77}	14.9	X	276.50742	316.73202	139.37910	2.16503	0.0569484	0.19423675	2.9528980	21	10 22.1	18.9
57696 2001 UH_{83}	15.3	X	227.92641	290.94817	145.62469	1.51498	0.1299581	0.18474659	3.0531755	21	7 19.4	20.0
57697 2001 UJ_{83}	15.2	X	154.07646	144.81843	143.22309	2.63175	0.0682431	0.20649976	2.8348039	21	—	—
57698 2001 UC_{86}	16.3	X	296.77758	40.46237	152.44968	2.35893	0.1351650	0.26228920	2.4170322	21	—	—
57699 2001 US_{88}	15.8	X	154.36962	356.19951	94.42229	7.17561	0.0573962	0.28271478	2.2991662	21	5 17.5	18.8
57700 2001 US_{93}	14.7	X	238.87969	332.93875	102.27003	10.59259	0.0390999	0.18707113	3.0278304	21	8 11.3	19.1
57701 2001 UT_{94}	14.4	X	165.91457	78.68524	102.57575	14.33547	0.0808622	0.19116192	2.9844785	21	10 3.2	19.2
57702 2001 UV_{98}	15.3	X	79.56280	132.61612	86.67144	5.49976	0.1664723	0.23513243	2.5997267	21	8 24.3	18.9
57703 2001 UB_{109}	15.0	X	300.58604	68.63289	87.16684	3.25284	0.0110259	0.20558738	2.8431847	21	—	—
57704 2001 UV_{114}	14.9	X	137.55018	75.30157	69.45521	1.78814	0.1341609	0.18092034	3.0960725	21	7 15.9	19.6
57705 2001 UA_{115}	15.7	X	222.52835	36.59641	209.12831	5.90383	0.0899636	0.26016934	2.4301438	21	—	—
57706 2001 UJ_{116}	15.5	X	74.55753	113.91948	57.41505	3.59409	0.0704212	0.22735248	2.6587015	21	5 25.5	19.0
57707 2001 UG_{118}	15.2	X	16.27260	244.39629	170.01239	1.86865	0.0473081	0.20350956	2.8625045	21	—	—
57708 2001 UV_{119}	14.2	X	121.01960	28.24681	76.20640	2.01284	0.1682153	0.17233689	3.1980399	21	5 13.9	19.1
57709 2001 UW_{119}	14.5	X	262.13642	131.16798	207.68728	2.54691	0.1011011	0.22833005	2.6511075	21	4 25.2	18.4
57710 2001 UZ_{120}	15.9	X	222.12418	116.88041	182.39250	3.90014	0.0947373	0.26778746	2.3838333	21	1 16.1	19.3
57711 2001 UV_{121}	14.7	X	164.74038	33.85237	85.16028	5.80814	0.1108009	0.18045942	3.1013421	21	7 9.9	19.5
57712 2001 UJ_{123}	14.9	X	359.34918	162.28832	136.51743	2.83866	0.1676296	0.23601648	2.5932307	21	7 28.9	17.1
57713 2001 UN_{124}	14.5	X	277.00597	288.03967	122.53393	12.24632	0.0721424	0.19023791	2.9941347	21	8 23.7	18.7
57714 2001 UY_{124}	11.7	X	190.15894	317.90619	126.42517	16.59673	0.0248780	0.08246013	5.2276525	21	6 25.8	18.8
57715 2001 UR_{125}	14.8	X	316.25164	82.32749	114.82384	13.42244	0.1056661	0.21549948	2.7553191	21	1 2.2	18.6
57716 2001 UY_{126}	14.7	X	149.35428	300.26986	143.31502	5.67629	0.1704478	0.17533262	3.1615076	21	5 17.3	19.8
57717 2001 UE_{127}	15.0	X	50.20313	154.98745	126.68900	5.70762	0.1741746	0.24227943	2.5483457	21	10 11.2	18.2
57718 2001 UJ_{127}	14.8	X	11.46815	75.50328	180.39496	8.36900	0.0655091	0.23105698	2.6302073	21	6 15.3	18.0
57719 2001 UE_{132}	14.6	X	148.74643	330.81363	147.55243	2.34545	0.1279064	0.17725804	3.1385719	21	6 23.7	19.6
57720 2001 UM_{134}	14.9	X	274.49107	25.02303	223.33288	4.30091	0.1109235	0.21797456	2.7344218	21	1 15.2	19.1
57721 2001 UK_{139}	16.4	X	299.12869	68.09206	168.61307	2.41069	0.1445238	0.27153531	2.3618475	21	1 14.3	19.7
57722 2001 UG_{142}	15.0	X	272.21226	33.70777	159.71348	3.74004	0.0763601	0.20926344	2.8097896	21	—	—
57723 2001 UO_{146}	15.3	X	214.57008	89.59013	213.09315	1.17809	0.0586530	0.21640805	2.7476017	21	1 21.6	19.3
57724 2001 UT_{148}	15.3	X	90.32055	127.05324	61.32550	2.38687	0.0387625	0.23205175	2.6226851	21	7 5.5	18.6
57725 2001 UN_{149}	15.1	X	343.92178	260.91939	151.28523	2.91915	0.0607738	0.19843734	2.9110776	21	11 30.0	18.9
57726 2001 UV_{149}	15.2	X	45.77557	52.33199	188.47067	2.35353	0.1262937	0.28348945	2.2949758	21	7 28.5	17.4
57727 2001 UX_{149}	15.1	X	238.19023	78.71553	203.50675	3.48467	0.0573954	0.21609956	2.7502160	21	1 21.9	19.2
57728 2001 UA_{151}	15.3	X	29.58315	78.43026	93.83505	4.33213	0.0394798	0.22058100	2.7128388	21	3 21.7	18.7
57729 2001 UB_{151}	14.9	X	293.12649	210.00041	66.83623	12.60512	0.1632172	0.22409589	2.6843972	21	3 12.4	18.9
57730 2001 UE_{151}	15.2	X	303.25985	146.63139	107.61628	3.28631	0.1772141	0.27154998	2.3617624	21	2 7.5	18.3
57731 2001 UN_{154}	14.8	X	194.73273	327.10844	56.92463	3.09797	0.0628030	0.22316739	2.6918378	21	4 11.0	18.7
57732 2001 UE_{158}	15.4	X	79.20267	243.32528	73.48742	0.72490	0.0231389	0.19839222	2.9115189	21	11 30.2	19.5
57733 2001 UU_{158}	15.5	X	210.44123	108.61247	165.94857	3.39489	0.1670062	0.26216894	2.4177714	21	—	—
57734 2001 UA_{159}	15.6	X	201.57626	165.69162	118.10617	3.67807	0.1088554	0.26176324	2.4202688	21	—	—
57735 2001 UQ_{159}	15.0	X	133.27859	223.84444	74.34296	3.13414	0.0439358	0.20320437	2.8653699	21	—	—
57736 2001 UW_{159}	15.6	X	358.80867	179.09491	71.64953	7.14729	0.0717155	0.27801168	2.3250235	21	5 14.4	18.0
57737 2001 UT_{160}	15.4	X	241.05997	66.13343	209.94443	3.71768	0.0704795	0.21471970	2.7619859	21	1 17.2	19.4
57738 2001 UZ_{160}	15.1	X	38.64219	181.65304	104.88104	4.31753	0.1808943	0.23986621	2.5654093	21	10 1.2	18.1
57739 2001 UF_{162}	14.6	X	200.89823	244.98683	74.53683	8.03437	0.0786075	0.21506432	2.7590346	21	1 30.3	18.8
57740 2001 UK_{162}	15.2	X	145.52479	194.76178	86.12683	8.68527	0.1132972	0.25241079	2.4796903	21	—	—
57741 2001 UN_{162}	15.0	X	314.82933	207.32778	105.29505	4.17902	0.1633303	0.23139845	2.6276191	21	5 21.9	18.1
57742 2001 UA_{163}	15.7	X	230.47501	183.02355	86.83981	3.36121	0.1879112	0.26455651	2.4032028	21	—	—
57743 2001 UB_{168}	14.3	X	330.15814	84.79510	290.22589	11.93228	0.1780368	0.24208501	2.5497100	21	9 14.6	16.9
57744 2001 UN_{170}	15.8	X	29.94374	347.95872	238.92372	1.08684	0.0365063	0.23042893	2.6349844	21	6 1.3	19.1
57745 2001 UT_{170}	15.2	X	60.52673	232.82536	23.64285	4.85216	0.1518507	0.23984624	2.5655517	21	9 16.1	18.4
57746 2001 UN_{172}	16.4	X	14.81844	204.40814	35.89029	5.88794	0.1308883	0.28190974	2.3035413	21	5 25.3	18.4
57747 2001 UY_{183}	15.2	X	81.06306	359.69409	133.39476	8.78650	0.1288442	0.22237415	2.6982355	21	4 26.1	18.8
57748 2001 UG_{219}	15.4	X	358.76316	134.23555	118.20936	8.60663	0.1090417	0.28046185	2.3114625	21	5 16.8	17.7
57749 2001 UD_{220}	15.2	X	194.53241	341.61558	268.70078	10.89198	0.1500687	0.25579456	2.4577734	21	—	—
57750 2001 VQ	13.8	X	166.51194	276.46538	170.05356	22.87762	0.3382134	0.17477147	3.1682713	21	6 9.8	20.0
57751 2001 VB_{1}	14.7	X	210.16502	339.55293	88.18629	16.32669	0.1541533	0.23535444	2.5980916	21	6 18.8	18.7
57752 2001 VX_{8}	15.2	X	155.95743	258.01162	24.46835	3.58081	0.1163244	0.25444144	2.4664793	21	—	—
57753 2001 VL_{12}	14.6	X	160.40245	83.32565	0.31826	9.10737	0.0731162	0.17561217	3.1581516	21	5 18.1	19.5
57754 2001 VW_{12}	14.1	X	264.48329	19.64891	281.57069	12.15089	0.2114866	0.27402860	2.3474992	21	2 17.8	18.0
57755 2001 VC_{13}	14.4	X	262.18720	74.19316	290.62212	13.17299	0.1835577	0.23162926	2.6258733	21	5 16.4	18.5
57756 2001 VQ_{16}	14.3	X	268.99315	312.03614	126.36306	11.47976	0.0873429	0.19134828	2.9825404	21	9 17.7	18.5
57757 2001 VT_{17}	15.5	X	218.88563	117.20287	327.56990	1.21964	0.1470076	0.18453066	3.0555567	21	7 19.4	20.3
57758 2001 VW_{20}	14.8	X	245.46417	115.65760	49.75024	2.70990	0.0066144	0.20043470	2.8917058	21	12 14.7	18.7
57759 2001 VW_{22}	13.8	X	149.04254	35.88052	57.08782	3.74702	0.2006919	0.12461093	3.9697695	21	5 29.8	20.1
57760 2001 VH_{23}	14.7	X	171.25487	114.64115	9.67455	1.12319	0.1163924	0.18134199	3.0912714	21	7 23.1	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57761 2001 VQ_{26}	15.5	X	297.20234	90.53289	314.75010	0.76142	0.0828177	0.18951523	3.0017416	21	9 10.0	19.4
57762 2001 VK_{27}	14.6	X	176.43499	82.92210	77.78058	2.94007	0.0267514	0.18795616	3.0183181	21	9 14.2	18.9
57763 2001 VF_{29}	13.9	X	158.51116	18.06189	64.55544	13.59391	0.1702915	0.17446899	3.1719321	21	5 22.9	19.1
57764 2001 VE_{30}	14.3	X	298.21395	236.57559	66.61655	13.51652	0.0644001	0.17584438	3.1553707	21	5 6.5	18.7
57765 2001 VR_{30}	15.0	X	287.25304	35.81856	273.95010	3.36440	0.1484281	0.27712749	2.3299663	21	4 3.8	18.2
57766 2001 VC_{35}	14.5	X	186.52535	298.16730	42.86449	3.19218	0.1920103	0.21725981	2.7404157	21	2 14.2	19.1
57767 2001 VX_{37}	15.3	X	85.58756	5.89880	319.43910	1.12689	0.0497829	0.20120814	2.8842907	21	12 21.9	19.5
57768 2001 VO_{41}	14.9	X	258.51834	162.94218	265.57225	3.55416	0.0751508	0.18732458	3.0250986	21	8 18.8	19.2
57769 2001 VH_{43}	14.5	X	238.55727	243.22527	104.62205	4.19610	0.2325577	0.22584953	2.6704837	21	4 4.1	19.1
57770 2001 VA_{45}	14.4	X	174.70662	298.75750	73.24927	5.83160	0.1272623	0.21771571	2.7365888	21	3 11.2	18.7
57771 2001 VK_{48}	14.3	X	121.52334	189.42168	76.42550	15.10866	0.1599919	0.24434188	2.5339854	21	12 2.6	18.2
57772 2001 VM_{49}	15.0	X	327.88969	261.40832	276.78778	10.47072	0.0993988	0.26524599	2.3990363	21	—	—
57773 2001 VG_{50}	15.0	X	40.23818	282.15792	318.91481	6.41537	0.1145966	0.28456388	2.2891954	21	7 18.7	17.1
57774 2001 VH_{50}	14.9	X	312.99957	304.73208	274.88514	8.58616	0.1042631	0.21874923	2.7279623	21	1 23.9	18.7
57775 2001 VS_{51}	15.2	X	261.20806	324.17409	287.11799	6.78611	0.0741622	0.26699812	2.3885293	21	—	—
57776 2001 VD_{54}	15.4	X	89.21894	47.79051	269.93488	4.66522	0.1406803	0.25339333	2.4732761	21	—	—
57777 2001 VO_{63}	14.5	X	42.68649	215.23668	41.86819	11.23232	0.0527036	0.18482512	3.0523106	21	8 6.5	18.8
57778 2001 VJ_{64}	15.4	X	224.58329	260.31099	27.20987	6.30165	0.0956607	0.26558274	2.3970080	21	1 5.9	19.0
57779 2001 VX_{73}	14.4	X	280.90479	12.79213	302.56881	12.41452	0.1327320	0.22958606	2.6414296	21	4 5.5	18.5
57780 2001 VN_{77}	15.0	X	348.44129	321.14929	138.86970	6.78642	0.0899864	0.25631658	2.4544353	21	—	—
57781 2001 VA_{79}	15.8	X	76.96921	9.51052	230.86829	4.69044	0.1505619	0.28863978	2.2675938	21	9 16.3	18.7
57782 2001 VN_{79}	15.1	X	164.91511	169.79031	127.38185	6.09086	0.0363948	0.25782988	2.4448219	21	—	—
57783 2001 VQ_{79}	14.7	X	326.75568	310.61519	78.83153	11.24846	0.0416076	0.19243548	2.9712962	21	10 12.1	18.8
57784 2001 VW_{85}	14.9	X	169.09103	321.34540	227.53184	6.55130	0.1657529	0.24220079	2.5488974	21	10 10.3	19.1
57785 2001 VY_{85}	14.9	X	341.66386	101.88231	13.88767	5.01404	0.0536473	0.20568832	2.8422545	21	—	—
57786 2001 VB_{87}	14.6	X	14.54065	155.56032	179.10382	12.94409	0.1974487	0.24315435	2.5422291	21	11 1.3	17.3
57787 2001 VX_{87}	14.6	X	172.98030	264.63355	140.34175	10.21175	0.0945078	0.17540042	3.1606929	21	4 21.7	19.6
57788 2001 VE_{88}	15.2	X	263.38058	91.32226	94.79688	6.21060	0.0386102	0.25689316	2.4507614	21	—	—
57789 2001 VW_{90}	14.7	X	305.55210	252.37351	109.71915	11.34079	0.0240194	0.18595775	3.0399039	21	8 4.5	18.8
57790 2001 VO_{92}	14.5	X	293.02207	237.66660	103.83165	15.85157	0.0975103	0.23233153	2.6205791	21	6 10.1	18.0
57791 2001 VK_{93}	14.4	X	137.37480	252.40685	111.82774	13.59541	0.1909726	0.21413279	2.7670304	21	1 28.1	18.5
57792 2001 VQ_{94}	14.5	X	30.56349	177.35572	129.97436	14.62357	0.1764489	0.24110838	2.5565905	21	10 21.3	17.7
57793 2001 VZ_{94}	14.5	X	120.34471	331.07640	194.63337	16.95293	0.1937133	0.17622882	3.1507801	21	7 25.8	19.8
57794 2001 VK_{97}	13.8	X	212.17549	222.50413	122.86280	23.90863	0.0845964	0.16904035	3.2394837	21	3 25.1	19.1
57795 2001 VM_{99}	14.6	X	129.95718	275.58729	134.22603	13.85354	0.1021935	0.21858993	2.7292875	21	3 7.5	18.5
57796 2001 VO_{99}	14.8	X	271.97022	200.00448	178.63885	15.50792	0.1357354	0.23494355	2.6011199	21	6 24.1	18.7
57797 2001 VX_{99}	14.3	X	163.33843	284.96547	132.78687	15.57716	0.1259615	0.22352746	2.6889463	21	4 27.9	18.8
57798 2001 VM_{101}	15.6	X	239.70561	320.46992	291.95954	3.72527	0.0970569	0.21269124	2.7795190	21	—	—
57799 2001 VJ_{102}	15.2	X	274.34141	256.90588	333.27841	2.09892	0.0298381	0.21341813	2.7732042	21	1 3.4	19.1
57800 2001 VK_{104}	14.5	X	83.12946	124.28543	31.52405	7.78301	0.1036810	0.17399107	3.1777379	21	5 23.5	19.0
57801 2001 VW_{107}	15.2	X	206.56688	71.40600	24.48022	1.38758	0.0589149	0.18422326	3.0589548	21	7 26.6	19.6
57802 2001 VO_{108}	14.6	X	53.44716	156.80116	11.68955	4.96771	0.1080122	0.17120680	3.2120975	21	4 29.2	18.7
57803 2001 VW_{108}	15.4	X	32.68514	108.99732	37.56978	2.74028	0.0136913	0.21793982	2.7347124	21	2 19.5	19.0
57804 2001 VQ_{118}	14.3	X	258.10319	294.86662	59.45780	9.65468	0.2060379	0.22868945	2.6483291	21	4 30.8	18.4
57805 2001 VA_{119}	15.1	X	319.21205	77.70131	51.81575	2.72108	0.0259437	0.20429795	2.8551354	21	—	—
57806 2001 VR_{121}	15.4	X	337.32545	99.95573	112.42164	7.16216	0.0507777	0.26964426	2.3728772	21	2 17.5	18.2
57807 2001 VV_{121}	14.4	X	239.14898	5.76947	56.78193	14.38455	0.1509416	0.23789020	2.5795959	21	7 13.3	18.5
57808 2001 VF_{122}	14.4	X	203.95768	282.75409	132.80086	18.89716	0.0720979	0.18062628	3.0994319	21	6 5.8	19.4
57809 2001 VS_{122}	13.9	X	273.42640	67.98968	70.46810	18.02494	0.1097441	0.19977662	2.8980526	21	12 3.0	17.4
57810 2001 WC	14.7	X	204.16472	4.35891	13.78497	4.00923	0.1170122	0.22392026	2.6858008	21	4 12.2	18.9
57811 2001 WE_{17}	15.0	X	204.53095	111.70416	358.62019	1.88263	0.1680075	0.18523684	3.0477860	21	8 5.4	19.8
57812 2001 WH_{20}	16.3	X	318.52705	229.94761	319.04867	1.82941	0.0566468	0.26538576	2.3981939	21	—	—
57813 2001 WZ_{21}	14.5	X	150.87107	82.91193	101.92861	11.07138	0.0125454	0.19010787	2.9954999	21	9 17.3	18.9
57814 2001 WK_{25}	14.8	X	177.83205	190.62558	142.56045	5.78086	0.0548641	0.21607324	2.7504393	21	1 18.3	18.7
57815 2001 WV_{25}	15.3	X	303.49162	141.44781	118.10209	5.83859	0.1316332	0.27331561	2.3515800	21	2 21.6	18.3
57816 2001 WW_{26}	15.0	X	286.69915	221.19344	147.93741	2.39383	0.1004203	0.18541239	3.0458619	21	7 6.8	19.0
57817 2001 WL_{27}	15.1	X	210.14563	181.47709	88.28950	10.97757	0.2222046	0.26173480	2.4204442	21	—	—
57818 2001 WB_{28}	15.5	X	50.23559	171.05266	100.28420	6.43482	0.0877936	0.28823703	2.2697056	21	9 18.9	18.1
57819 2001 WW_{28}	14.8	X	329.92222	220.85284	190.48184	7.60487	0.0934125	0.19537906	2.9413771	21	11 8.4	18.4
57820 2001 WQ_{40}	14.5	X	14.86297	130.54304	215.47443	6.83223	0.2068524	0.24259326	2.5461476	21	11 17.3	17.1
57821 2001 WD_{44}	14.0	X	136.95095	324.74126	105.92805	9.75670	0.1764494	0.17349322	3.1838142	21	4 23.6	19.2
57822 2001 WV_{45}	15.6	X	280.84232	243.93290	354.41704	1.75170	0.1373404	0.26524307	2.3990540	21	—	—
57823 2001 WD_{47}	14.9	X	106.81040	172.81753	54.39929	9.32503	0.1452548	0.23934264	2.5691493	21	10 4.0	18.8
57824 2001 WT_{48}	14.5	X	262.41923	302.31069	133.44311	9.90163	0.0789750	0.18951578	3.0017358	21	9 5.0	18.7
57825 2001 WP_{76}	15.0	X	48.33993	91.98502	68.10801	2.67448	0.0961800	0.17040434	3.2221737	21	4 11.7	19.1
57826 2001 WB_{90}	14.7	X	170.47905	49.39552	6.29426	9.33225	0.0919297	0.17516817	3.1634861	21	4 25.6	19.7
57827 2001 WM_{91}	14.8	X	55.08717	156.72002	30.40581	6.99068	0.0879679	0.22414966	2.6839680	21	5 19.6	18.0
57828 2001 XZ_{4}	14.6	X	348.32802	203.16150	95.40018	12.78355	0.1157784	0.18231937	3.0802137	21	7 6.2	18.1
57829 2001 XZ_{9}	14.4	X	324.70299	175.96989	65.85816	16.04480	0.1157873	0.21761226	2.7374560	21	3 19.0	18.2
57830 2001 XW_{11}	14.8	X	161.82181	211.66989	6.45447	9.98888	0.0307439	0.19381420	2.9571883	21	11 3.3	19.1
57831 2001 XX_{16}	14.4	X	338.77640	311.30018	46.32142	5.95744	0.2558524	0.24091393	2.5579661	21	9 16.8	16.0
57832 2001 XL_{18}	14.9	X	140.81948	257.04174	15.98387	7.42837	0.2093453	0.29785311	2.2205878	21	—	—
57833 2001 XD_{26}	14.1	X	75.84241	205.00904	104.68591	22.75826	0.0283933	0.23960067	2.5673044	21	12 1.2	17.9
57834 2001 XE_{28}	13.7	X	79.23051	133.73311	105.41414	22.83911	0.1093353	0.17769562	3.1334173	21	9 12.3	18.5
57835 2001 XO_{36}	14.6	X	293.00332	353.40270	18.42569	9.83023	0.1050821	0.18497653	3.0506447	21	7 21.5	18.8
57836 2001 XL_{39}	14.4	X	276.17897	54.95652	9.36226	9.67900	0.1065750	0.18697903	3.0288246	21	9 4.9	18.5
57837 2001 XZ_{39}	13.6	X	87.90494	179.07742	113.90958	10.90564	0.0627393	0.19183944	2.9774475	21	11 18.6	18.0
57838 2001 XF_{49}	15.0	X	66.42979	65.07941	95.04545	0.88224	0.2655495	0.16915680	3.2379967	21	6 1.7	19.2
57839 2001 XF_{50}	15.9	X	257.16849	190.23053	67.75799	2.27213	0.1498584	0.26437721	2.4042892	21	—	—
57840 2001 XY_{52}	15.0	X	260.89941	147.15146	81.03649	5.39704	0.0304403	0.20913499	2.8109400	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57841 2001 XG_{53}	15.5	X	126.97953	164.65757	85.52681	6.25676	0.1533908	0.29409005	2.2394902	21	11 25.0	18.8
57842 2001 XQ_{53}	15.0	X	97.28733	45.01828	96.97451	6.06059	0.1077551	0.17241638	3.1970569	21	5 26.8	19.5
57843 2001 XO_{59}	14.5	X	270.32630	216.00132	105.03840	7.85361	0.1272978	0.27434655	2.3456852	21	4 7.9	17.8
57844 2001 XV_{60}	15.3	X	240.44950	353.70531	137.08626	2.19457	0.0245716	0.19225720	2.9731328	21	10 24.1	19.3
57845 2001 XN_{71}	14.7	X	104.21080	109.96185	140.69980	9.62690	0.0510702	0.19019000	2.9946375	21	10 15.4	19.1
57846 2001 XR_{72}	14.4	X	208.00935	48.38037	114.33724	11.16400	0.0418852	0.19239091	2.9717551	21	10 26.7	18.9
57847 2001 XP_{80}	14.4	X	93.96516	34.22653	126.16436	10.29408	0.1715526	0.17306714	3.1890376	21	6 23.4	19.1
57848 2001 XC_{81}	15.0	X	17.83530	162.09050	111.99923	13.41105	0.1410669	0.23165895	2.6256489	21	7 28.5	17.6
57849 2001 XR_{86}	13.6	X	83.59232	87.48743	121.29061	16.24364	0.1869015	0.17295607	3.1904028	21	8 14.1	18.3
57850 2001 XX_{89}	15.9	X	265.05750	218.92597	17.08204	2.22603	0.1595183	0.26250504	2.4157072	21	—	—
57851 2001 XJ_{97}	14.3	X	136.64103	61.36237	51.94662	8.99230	0.0644293	0.17436991	3.1731336	21	5 29.8	18.9
57852 2001 XM_{97}	15.2	X	1.48976	189.73474	79.02990	7.63715	0.1804529	0.27904177	2.3192981	21	6 12.9	16.8
57853 2001 XG_{98}	14.5	X	300.77971	298.81819	43.81668	4.87052	0.2398683	0.23244893	2.6196967	21	5 27.9	17.6
57854 2001 XD_{132}	15.4	X	255.39963	180.34543	84.40815	2.16479	0.0934276	0.21409405	2.7673642	21	1 18.4	19.4
57855 2001 XT_{144}	15.0	X	69.24159	166.42479	90.50888	14.50506	0.1453113	0.23570005	2.5955512	21	10 3.7	18.9
57856 2001 XE_{203}	15.1	X	349.54131	98.75647	89.11495	12.72668	0.1085969	0.21615367	2.7497569	21	2 7.4	18.6
57857 2001 XJ_{203}	15.4	X	199.99956	160.21779	108.21948	7.20241	0.1202720	0.25875115	2.4390153	21	—	—
57858 2001 XU_{204}	15.1	X	226.31778	179.58020	128.14836	7.05205	0.1360208	0.26779825	2.3837693	21	1 31.6	18.7
57859 2001 XK_{207}	14.6	X	108.48344	116.68420	106.08775	12.11935	0.0887605	0.18565425	3.0432161	21	9 21.3	19.3
57860 2001 XS_{214}	14.7	X	116.69677	185.35539	181.16810	3.99117	0.2048854	0.20958900	2.8068792	21	1 9.6	18.6
57861 2001 XL_{221}	15.2	X	106.04509	93.97844	59.69073	1.95141	0.1118864	0.17728336	3.1382731	21	6 20.5	19.7
57862 2001 XR_{226}	15.7	X	293.47436	317.69703	349.94042	3.00697	0.1546694	0.27776849	2.3263804	21	4 8.7	18.6
57863 2001 XT_{227}	14.4	X	353.96446	39.87291	265.26575	12.58674	0.1669614	0.23541358	2.5976564	21	7 23.2	17.0
57864 2001 XY_{229}	14.8	X	57.60125	267.47990	281.93937	0.20532	0.1169889	0.17337443	3.1852682	21	6 3.8	19.0
57865 2001 XZ_{229}	15.3	X	150.17605	212.47808	71.87064	3.22479	0.0430870	0.20218526	2.8749903	21	—	—
57866 2001 XU_{244}	15.0	X	341.11603	196.86683	55.65457	10.14410	0.1910370	0.22611190	2.6684175	21	4 10.9	17.9
57867 2001 XS_{256}	14.9	X	115.76766	7.46414	171.36958	10.38318	0.1701455	0.22916804	2.6446407	21	8 8.0	19.0
57868 Pupin	15.3	X	214.01331	46.10716	287.61899	4.22855	0.2538111	0.26809693	2.3819985	21	2 19.9	19.5
57869 2001 YM_{24}	15.3	X	111.58253	175.83432	48.87219	5.43907	0.2195939	0.23686434	2.5870387	21	10 8.7	19.5
57870 2001 YG_{46}	14.1	X	253.40894	260.86483	78.35931	18.28396	0.1365946	0.17435784	3.1732800	21	4 24.5	19.2
57871 2001 YB_{52}	14.3	X	315.99949	250.13136	69.40524	8.31872	0.1601769	0.18006257	3.1058972	21	6 4.9	18.3
57872 2001 YU_{87}	13.8	X	324.79344	206.49220	98.52071	27.76034	0.1133102	0.17522448	3.1628083	21	6 10.4	18.0
57873 2001 YF_{98}	13.7	X	98.37463	117.65240	50.96481	14.59391	0.2168019	0.17400183	3.1776069	21	7 15.5	18.8
57874 2001 YR_{110}	14.6	X	346.89992	352.80025	267.52050	23.40904	0.1430540	0.27883666	2.3204353	21	4 21.3	17.5
57875 2001 YV_{114}	13.9	X	38.61025	185.31017	152.95797	19.58663	0.2978820	0.19867691	2.9087370	21	12 18.1	18.3
57876 2001 YB_{122}	14.9	X	10.94161	208.00380	53.39659	13.47338	0.1026611	0.22935280	2.6432202	21	6 21.9	18.0
57877 2001 YT_{123}	14.8	X	261.75213	272.40244	42.07289	6.81510	0.1402095	0.27286593	2.3541629	21	3 18.2	18.2
57878 2001 YZ_{148}	15.2	X	198.09575	174.25669	201.90510	7.77716	0.2968569	0.27140328	2.3626133	21	4 1.1	19.5
57879 Cesarechiosi	15.1	X	185.90614	169.16377	163.26329	9.46146	0.1494219	0.21550949	2.7552337	21	1 30.5	19.6
57880 2002 AN_{3}	14.4	X	276.73817	304.09309	107.74126	15.26953	0.0965040	0.18448223	3.0560915	21	8 22.3	18.7
57881 2002 AZ_{35}	14.1	X	268.42037	251.07533	88.49363	15.38115	0.1326479	0.22903136	2.6456928	21	5 5.4	18.1
57882 2002 AB_{36}	14.9	X	283.68218	186.09021	86.50676	13.43502	0.1180367	0.22005458	2.7171635	21	3 1.5	19.0
57883 2002 AR_{72}	14.7	X	302.22719	158.39339	78.16933	8.92576	0.1884421	0.21110192	2.7934523	21	1 25.2	18.9
57884 2002 AU_{90}	13.7	X	173.48656	358.01492	121.59416	20.23531	0.1160466	0.18091235	3.0961636	21	7 19.2	18.6
57885 2002 AU_{181}	13.9	X	29.88707	298.27177	297.65126	15.57827	0.0992339	0.17979214	3.1090109	21	6 21.7	17.9
57886 2002 AL_{183}	14.7	X	117.76537	211.98264	24.97367	7.41181	0.0269438	0.19108915	2.9852362	21	10 9.2	18.9
57887 2002 AR_{201}	14.1	X	26.39758	306.76343	356.00899	9.13947	0.1754552	0.18241165	3.0791747	21	9 21.9	17.8
57888 2002 BS_{6}	13.9	X	9.60795	292.15018	318.56187	16.11570	0.1385705	0.17204127	3.2017024	21	6 7.6	17.9
57889 2002 CN_{11}	13.8	X	109.75071	42.06325	116.53542	28.09067	0.1281661	0.17594993	3.1541086	21	7 4.4	18.7
57890 2002 CJ_{26}	14.7	X	210.73879	122.45068	291.96979	13.94293	0.0485668	0.23038620	2.6353102	21	6 7.5	18.5
57891 2002 CJ_{35}	13.7	X	260.01604	39.98327	0.35548	27.84326	0.0993828	0.17519291	3.1631882	21	7 24.5	18.8
57892 2002 CH_{36}	14.7	X	193.80747	164.67155	136.75057	2.58691	0.0428113	0.20291769	2.8680679	21	—	—
57893 2002 CJ_{95}	16.1	X	289.94552	265.82653	10.94778	1.15261	0.1662639	0.25929514	2.4356028	21	2 24.5	19.6
57894 2002 CJ_{129}	14.8	X	40.67055	161.04753	166.00700	9.75339	0.1951674	0.23461518	2.6035463	21	11 28.4	18.3
57895 2002 CX_{134}	14.2	X	252.16829	299.37133	109.58306	12.08928	0.1187654	0.18403393	3.0610525	21	7 12.5	18.7
57896 2002 CN_{201}	15.3	X	71.96793	193.70461	135.69491	8.15751	0.3255110	0.23979586	2.5659110	21	—	—
57897 2002 CV_{213}	14.8	X	34.17504	215.04416	148.92760	9.57950	0.1728808	0.23478034	2.6023252	21	12 31.9	18.4
57898 2002 CF_{237}	14.9	X	42.01807	196.14473	162.06771	8.12568	0.2049242	0.23710072	2.5853189	21	—	—
57899 2002 CU_{237}	14.4	X	106.81171	120.52368	138.49352	12.95862	0.1359411	0.22545360	2.6736093	21	11 10.7	18.7
57900 2002 CY_{239}	14.8	X	98.87454	143.75087	197.38431	4.50182	0.2013014	0.24184862	2.5513711	21	—	—
57901 Hitchens	13.8	X	152.71688	116.91654	322.40013	12.21040	0.1493018	0.22520641	2.6755652	21	5 4.6	18.3
57902 2002 CR_{307}	15.2	X	151.91975	253.94994	120.93188	13.10017	0.1844714	0.25692835	2.4505376	21	2 19.1	18.9
57903 2002 EX_{16}	15.0	X	42.65959	146.22667	121.85495	10.92999	0.1911038	0.27277697	2.3546747	21	9 19.1	17.7
57904 2002 ER_{25}	12.2	X	325.44031	223.89971	194.24783	1.99291	0.0717028	0.08194494	5.2495406	21	10 22.4	18.9
57905 2002 EO_{30}	15.5	X	103.73265	313.57763	9.93265	8.26019	0.1910024	0.28832526	2.2692426	21	—	—
57906 2002 EO_{31}	14.9	X	10.22986	216.91984	65.30190	4.95461	0.0560565	0.21959966	2.7209148	21	7 21.2	18.3
57907 2002 EQ_{31}	15.3	X	19.56199	213.14136	85.06448	4.31960	0.1879300	0.27227287	2.3575802	21	9 20.6	17.4
57908 2002 ER_{31}	14.3	X	162.49457	243.45900	195.55277	8.73598	0.1355508	0.21363888	2.7712935	21	5 19.9	18.7
57909 2002 ED_{33}	15.9	X	285.54714	108.06209	3.84575	13.59675	0.1149646	0.23936447	2.5689930	21	11 19.7	19.2
57910 2002 ED_{61}	12.3	X	300.27756	256.97308	200.99658	4.35210	0.0393518	0.08402104	5.1627056	21	11 8.3	19.0
57911 2002 EE_{96}	15.7	X	123.54418	344.43993	343.63726	4.35971	0.1005226	0.29145133	2.2529870	21	—	—
57912 2002 ES_{99}	14.6	X	61.74420	217.53002	5.66781	14.77707	0.0964252	0.22088252	2.7103694	21	7 27.8	18.4
57913 2002 EJ_{107}	15.2	X	292.67212	121.37685	136.66624	14.93195	0.1011525	0.25573272	2.4581697	21	2 12.6	18.5
57914 2002 EC_{109}	16.1	X	242.14236	300.73366	110.56743	4.05625	0.1808209	0.27508393	2.3414914	21	6 27.1	19.4
57915 2002 EB_{110}	12.4	X	252.57810	128.89073	19.33738	14.87796	0.0376279	0.08226237	5.2360275	21	11 6.4	19.4
57916 2002 EC_{111}	15.2	X	105.33917	183.18126	112.51672	4.92515	0.0659170	0.23517908	2.5993829	21	12 16.0	18.9
57917 2002 EK_{111}	14.9	X	350.63438	220.00706	75.97974	6.82567	0.1254237	0.26772817	2.3841853	21	7 6.9	17.0
57918 2002 EE_{120}	16.2	X	182.85320	332.88184	338.71550	3.09457	0.1549922	0.29657640	2.2269561	21	—	—
57919 2002 EE_{129}	16.4	X	68.18107	249.13051	22.54972	0.51316	0.1754696	0.22406408	2.6846514	21	10 16.0	20.0
57920 2002 EL_{153}	12.4	X	340.70655	239.92279	188.80928	4.61953	0.0374721	0.08180780	5.2554057	21	11 23.5	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
57921 2002 EY_{154}	15.3	X	97.12951	195.70853	80.57861	4.31799	0.1288053	0.22907381	2.6453659	21	11 18.0	19.3
57922 2002 FU_{8}	14.2	X	242.32852	194.72752	200.02537	10.68731	0.1294606	0.22008284	2.7169309	21	6 11.8	18.4
57923 2002 FQ_{14}	15.4	X	154.19129	359.21603	263.40572	2.85222	0.0520209	0.23688144	2.5869142	21	12 28.9	19.1
57924 2002 FO_{28}	15.0	X	182.29610	334.83368	63.47708	6.99511	0.3067012	0.26663316	2.3907084	21	4 20.1	19.3
57925 2002 FQ_{30}	15.3	X	297.67567	151.83997	198.24092	5.63003	0.1971216	0.26841588	2.3801112	21	6 9.6	18.1
57926 2002 FV_{34}	14.2	X	347.40898	104.84801	206.18770	11.86937	0.0490187	0.16787268	3.2544882	21	7 20.5	18.8
57927 2002 GX_{37}	14.9	X	75.10327	2.63166	18.18302	5.39198	0.2253443	0.24004686	2.5641221	21	—	—
57928 2002 GD_{77}	14.9	X	216.87497	4.42006	64.37183	6.49515	0.0499527	0.21862144	2.7290252	21	7 4.6	18.9
57929 2002 GB_{86}	15.8	X	12.22227	247.53406	79.09657	7.22698	0.1562039	0.27322683	2.3520894	21	10 16.9	18.1
57930 2002 GJ_{97}	16.2	X	24.14677	333.82526	34.81848	7.25938	0.1200187	0.28102475	2.3083749	21	12 27.8	19.0
57931 2002 GX_{159}	16.2	X	187.04346	186.80245	142.37075	3.90721	0.2057353	0.29741796	2.2227533	21	1 19.9	19.6
57932 2002 GA_{161}	15.7	X	157.36386	182.33394	120.07834	5.14071	0.1491736	0.28990506	2.2609911	21	—	—
57933 2002 HH_{17}	13.7	X	169.91885	38.29677	137.10383	18.29119	0.1825913	0.17588435	3.1548926	21	9 25.5	19.2
57934 2002 JZ_{7}	15.4	X	229.89003	208.00632	119.35456	7.35974	0.1451595	0.25335098	2.4735517	21	3 4.0	19.3
57935 2002 JL_{17}	15.1	X	280.65172	301.02305	12.44021	2.34416	0.1826378	0.20486426	2.8498713	21	4 5.7	19.4
57936 2002 JU_{23}	16.2	X	319.17947	166.13828	131.07196	3.12751	0.1998232	0.25898104	2.4375717	21	4 28.5	18.8
57937 2002 JJ_{30}	14.4	X	92.04677	167.32753	152.32195	1.58102	0.2257292	0.17614237	3.1518110	21	—	—
57938 2002 JT_{33}	14.2	X	292.65524	271.74720	219.16188	13.41693	0.1474618	0.23554227	2.5967102	21	12 26.5	17.2
57939 2002 JY_{33}	15.8	X	334.28937	242.85270	159.11774	2.98352	0.0339829	0.27758756	2.3273912	21	11 17.9	18.4
57940 2002 JJ_{38}	14.5	X	132.49599	56.70062	229.39755	12.64376	0.1027543	0.18127952	3.0919815	21	12 23.8	19.4
57941 2002 JA_{40}	14.6	X	71.62253	169.15793	149.61234	12.45737	0.0754310	0.17939520	3.1135953	21	11 29.9	19.3
57942 2002 JM_{40}	14.9	X	77.71150	328.48871	347.70409	5.71544	0.1516268	0.28123838	2.3072058	21	12 27.9	18.3
57943 2002 JO_{41}	15.2	X	330.51230	247.68348	36.11995	6.95156	0.1071690	0.26138048	2.4226311	21	5 10.6	17.8
57944 2002 JJ_{46}	15.4	X	265.57229	318.34804	32.61107	1.36680	0.0401229	0.21091260	2.7951237	21	5 24.5	19.3
57945 2002 JG_{50}	15.8	X	179.40140	265.27866	11.79782	3.13255	0.0467306	0.28888831	2.2662931	21	—	—
57946 2002 JG_{61}	15.5	X	209.58900	344.89851	87.38524	2.25955	0.0343637	0.26748012	2.3856591	21	6 30.9	18.6
57947 2002 JB_{62}	15.4	X	291.07319	52.18775	146.74228	6.02573	0.0926774	0.24450861	2.5328333	21	—	—
57948 2002 JO_{62}	14.4	X	145.31896	24.28336	176.10723	7.19083	0.0741698	0.17132130	3.2106661	21	9 26.2	19.2
57949 2002 JV_{66}	16.7	X	12.43414	155.92876	125.89954	2.73452	0.1818614	0.26398682	2.4066589	21	8 3.7	18.6
57950 2002 JV_{72}	14.2	X	76.05572	186.06594	130.85370	10.18485	0.0771602	0.17571501	3.1569193	21	12 1.8	18.9
57951 2002 JJ_{91}	15.2	X	169.89042	162.60258	168.12115	1.06897	0.0592637	0.19200839	2.9757007	21	1 11.8	19.6
57952 2002 JP_{93}	15.5	X	261.67396	107.19914	50.42250	4.53498	0.0284666	0.23298226	2.6156972	21	12 29.9	19.0
57953 2002 JJ_{95}	15.2	X	269.31880	316.24619	307.36182	1.11022	0.0437980	0.19624388	2.9327293	21	2 8.7	19.3
57954 2002 JA_{101}	12.7	X	254.88614	296.61249	44.85532	28.18932	0.2415484	0.16013610	3.3584835	21	4 19.4	18.3
57955 2002 JV_{103}	15.7	X	162.46977	96.55857	150.21499	2.58990	0.0138598	0.23076583	2.6324192	21	12 19.4	19.3
57956 2002 JL_{105}	14.6	X	125.49514	53.69836	185.46037	5.26266	0.1076461	0.17296497	3.1902933	21	10 24.6	19.4
57957 2002 JZ_{105}	15.1	X	139.06361	128.84372	121.46816	0.55990	0.1389189	0.17547261	3.1598260	21	11 20.1	20.2
57958 2002 JC_{118}	14.1	X	179.50666	158.42076	100.97893	17.98558	0.1587300	0.18467932	3.0539168	21	—	—
57959 2002 JH_{118}	15.1	X	79.20717	173.30309	116.96230	13.35027	0.1421160	0.27974830	2.3153914	21	11 28.2	18.6
57960 2002 JE_{129}	15.5	X	21.01897	284.10881	93.48533	4.55870	0.0266952	0.22942680	2.6426518	21	12 9.8	19.0
57961 2002 JN_{133}	15.2	X	345.50885	299.88569	6.40865	5.35347	0.0675645	0.21365746	2.7711328	21	7 15.9	18.6
57962 2002 JP_{133}	16.1	X	217.81130	347.84116	261.35061	5.94470	0.0828196	0.29071725	2.2567781	21	—	—
57963 2002 LV_{3}	14.6	X	124.98539	172.96168	130.23750	2.82380	0.0863379	0.18158675	3.0884930	21	—	—
57964 2002 LY_{28}	15.7	X	308.64882	43.08242	146.32601	6.59720	0.1392708	0.29200901	2.2501176	21	—	—
57965 2002 LM_{32}	15.6	X	270.44620	293.29487	167.50153	8.97516	0.0474972	0.27635347	2.3343149	21	11 5.1	18.4
57966 2002 LN_{39}	16.6	X	270.84506	93.85605	158.18232	5.82616	0.1423541	0.29722190	2.2237306	21	—	—
57967 2002 LS_{45}	15.9	X	223.42892	0.04583	261.84765	6.62073	0.1029702	0.28752748	2.2734382	21	—	—
57968 2002 LQ_{52}	13.7	X	87.28103	231.56406	118.33513	16.80743	0.1746046	0.17910170	3.1169960	21	—	—
57969 2002 MT_{2}	14.0	X	111.46684	329.56300	80.52941	2.57582	0.1367464	0.18676021	3.0311899	21	2 21.9	18.3
57970 2002 NT_{13}	15.0	X	172.83193	317.68797	157.00922	2.34946	0.0204682	0.20558658	2.8431921	21	7 11.2	19.0
57971 2002 NJ_{41}	16.2	X	58.00595	344.67896	35.01908	3.76083	0.2770638	0.27507225	2.3415577	21	—	—
57972 2002 NQ_{51}	16.1	X	182.25274	229.01459	100.83470	7.58177	0.1596396	0.28798784	2.2710147	21	1 14.9	19.5
57973 2002 OW	15.2	X	246.50057	25.12798	213.68821	7.42475	0.1500343	0.23664199	2.5886590	21	—	—
57974 2002 OX_{3}	14.5	X	49.90345	114.78387	297.89496	10.72391	0.1117271	0.22139704	2.7061685	21	—	—
57975 2002 OO_{11}	15.8	X	127.30755	62.26326	343.73676	8.23488	0.1663997	0.23802857	2.5785961	21	3 2.6	19.4
57976 2002 OJ_{16}	15.9	X	36.24767	183.74217	166.82088	7.33370	0.1287726	0.27113400	2.3641774	21	12 19.2	18.9
57977 2002 PF_{17}	15.3	X	103.80550	352.74537	273.10153	0.62125	0.0274025	0.21772705	2.7364937	21	10 31.1	19.1
57978 2002 PO_{35}	15.5	X	148.65548	110.30943	188.69676	0.54928	0.1868120	0.17516743	3.1634950	21	—	—
57979 2002 PW_{49}	14.5	X	149.37656	199.18119	146.56487	1.93269	0.1779850	0.17608504	3.1524950	21	1 21.7	19.5
57980 2002 PZ_{85}	16.2	X	313.52934	192.88427	49.71194	5.33727	0.0802364	0.29682525	2.2257113	21	2 16.6	18.8
57981 2002 PF_{104}	15.9	X	261.61090	17.29259	190.87547	12.68381	0.0829216	0.23084745	2.6317986	21	—	—
57982 2002 PB_{110}	15.7	X	300.95329	22.55604	19.56391	3.79611	0.1289277	0.26206290	2.4184235	21	9 14.8	18.0
57983 2002 PT_{117}	15.0	X	9.82192	229.68983	300.30157	11.76003	0.1165268	0.24157150	2.5533220	21	2 4.1	17.9
57984 2002 PG_{124}	15.4	X	314.43884	119.94589	168.60225	2.06157	0.0934341	0.19745932	2.9206821	21	5 1.6	19.2
57985 2002 PL_{129}	15.0	X	129.59363	290.89568	149.54867	9.38750	0.1072578	0.19100810	2.9860806	21	4 18.5	19.5
57986 2002 PA_{134}	15.5	X	55.46038	185.70482	170.52304	2.92978	0.0808933	0.22034802	2.7147507	21	—	—
57987 2002 QQ_{6}	15.5	X	267.22153	358.75821	298.32862	9.31276	0.0609849	0.24149064	2.5538919	21	3 6.8	19.3
57988 2002 RG_{27}	14.8	X	122.95075	179.41352	239.94044	6.57168	0.2989026	0.22809536	2.6529256	21	3 28.8	19.0
57989 2002 RU_{32}	15.2	X	187.69522	349.83995	203.52185	3.82409	0.0163736	0.21383924	2.7695622	21	11 10.3	19.1
57990 2002 RJ_{34}	15.6	X	155.58587	293.04377	45.46654	3.81847	0.1061209	0.23008248	2.6376288	21	1 3.3	19.4
57991 2002 RF_{40}	14.6	X	204.94108	212.25644	91.54853	1.80755	0.2027407	0.18289657	3.0737297	21	1 20.5	19.8
57992 2002 RX_{47}	15.7	X	9.39554	210.15851	124.76876	3.55566	0.1801853	0.26177402	2.4202024	21	10 23.3	17.9
57993 2002 RX_{56}	15.4	X	14.15701	130.35537	223.15950	3.02683	0.2083044	0.21140355	2.7907945	21	11 18.9	18.4
57994 2002 RR_{86}	14.2	X	328.74931	193.23696	357.94633	16.49127	0.0468027	0.17967487	3.1103636	21	2 1.5	18.7
57995 2002 RJ_{102}	15.4	X	51.34338	40.47666	15.07818	3.50141	0.1043297	0.27302561	2.3532449	21	—	—
57996 2002 RV_{107}	15.4	X	82.91241	305.23161	30.85285	6.16295	0.2198953	0.26838526	2.3802922	21	—	—
57997 2002 RN_{110}	16.0	X	103.47864	197.10292	290.01578	5.54844	0.0817703	0.29416040	2.2391331	21	4 28.9	18.6
57998 2002 SO_{9}	14.9	X	148.91579	358.63123	71.51839	2.63144	0.1064663	0.18665947	3.0322804	21	4 24.3	19.6
57999 2002 TN_{52}	14.6	X	191.11470	43.41336	42.27195	2.37346	0.2233994	0.18909692	3.0061668	21	6 22.9	19.8
58000 2002 TC_{103}	14.2	X	219.64724	263.95808	351.89775	9.29500	0.2228481	0.22832989	2.6511087	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58001 2002 TX_{126}	15.0	X	94.73306	171.28691	102.87591	5.50765	0.0288420	0.21232185	2.7827418	21	11 1.4	19.0
58002 2002 TM_{175}	14.5	X	208.92645	149.23851	59.26865	13.06041	0.1190516	0.21689796	2.7434628	21	12 12.0	18.5
58003 2002 TC_{180}	14.4	X	248.49444	43.50663	285.40900	11.64873	0.1992972	0.23884778	2.5726966	21	3 13.1	18.9
58004 2002 TG_{206}	16.2	X	286.53198	293.36352	5.66071	5.50042	0.1861264	0.29522525	2.2337456	21	3 14.8	19.3
58005 2002 TR_{207}	15.6	X	247.48058	330.09868	222.96120	10.27540	0.0671992	0.26965135	2.3728356	21	—	—
58006 2002 TD_{221}	15.8	X	241.55186	172.32423	285.51461	11.30393	0.1332166	0.25504408	2.4625925	21	8 28.5	19.4
58007 2002 TL_{234}	13.8	X	280.44068	331.36661	297.89052	13.88713	0.1580594	0.18447371	3.0561856	21	2 12.9	18.6
58008 2002 TW_{240}	11.6	X	179.86085	340.43081	90.84322	17.35275	0.0419829	0.08366188	5.1774704	21	5 31.9	18.7
58009 2002 TU_{262}	16.5	X	312.03399	330.35706	155.58848	1.94115	0.0926890	0.26963237	2.3729470	21	—	—
58010 2002 TB_{266}	16.1	X	315.49838	45.72865	69.81445	5.23913	0.2539792	0.26234152	2.4167109	21	—	—
58011 2002 TW_{280}	14.1	X	129.05474	119.21928	251.33254	8.06309	0.0810364	0.17421723	3.1749873	21	1 17.9	18.7
58012 2002 TM_{290}	13.4	X	197.24892	9.33266	34.11188	13.89328	0.1650129	0.18552327	3.0446482	21	5 7.3	18.4
58013 2002 TP_{293}	15.2	X	75.26222	89.40468	289.54108	5.14252	0.2680068	0.26924391	2.3752288	21	—	—
58014 2002 US_{28}	15.0	X	116.01221	210.47101	289.34762	12.91754	0.1148252	0.24026338	2.5625814	21	6 13.7	18.7
58015 2002 UG_{29}	15.3	X	171.43578	165.90054	161.32859	10.64753	0.2252370	0.22861783	2.6488822	21	1 14.7	19.9
58016 2002 UH_{29}	14.7	X	91.35193	225.71851	133.77621	9.31195	0.1388359	0.21970140	2.7200747	21	—	—
58017 2002 UC_{34}	15.1	X	237.67884	271.43582	129.84428	15.92501	0.0551398	0.23840269	2.5758977	21	6 23.8	18.9
58018 2002 UX_{37}	14.6	X	64.81632	310.63522	232.37378	9.21607	0.0538575	0.18807893	3.0170045	21	5 27.6	18.5
58019 2002 UV_{40}	15.3	X	359.90841	112.38342	313.34753	2.42577	0.0758678	0.21338938	2.7734532	21	—	—
58020 2002 VE_{17}	14.3	X	137.73358	269.86123	198.20079	13.18736	0.2757624	0.18252587	3.0778901	21	6 10.9	19.8
58021 2002 VD_{32}	15.3	X	243.58175	118.50775	8.93989	1.72723	0.0256037	0.20364788	2.8612081	21	10 23.9	19.1
58022 2002 VK_{36}	14.6	X	248.14797	93.18857	95.59599	12.47585	0.2034797	0.25951841	2.4342057	21	—	—
58023 2002 VR_{40}	15.0	X	105.11216	246.83089	107.94102	11.51501	0.2962243	0.27413395	2.3468978	21	—	—
58024 2002 VC_{48}	14.2	X	156.03306	341.94230	88.36588	10.63654	0.0545238	0.18149982	3.0894790	21	5 1.8	18.8
58025 2002 VW_{48}	15.9	X	148.79296	22.88037	152.28970	2.98245	0.0777209	0.30302360	2.1952555	21	9 8.4	18.7
58026 2002 VS_{55}	15.6	X	79.31492	238.46312	349.36223	3.09522	0.0835976	0.30121135	2.2040520	21	8 25.8	17.9
58027 2002 VH_{58}	14.9	X	119.79445	5.78751	139.67136	4.39820	0.2177778	0.23781811	2.5801172	21	7 6.1	18.9
58028 2002 VB_{63}	15.1	X	152.68731	227.18499	70.58104	5.90057	0.0960811	0.21886866	2.7269698	21	—	—
58029 2002 VH_{63}	15.0	X	149.39826	5.23925	270.73487	7.66738	0.1165189	0.26739148	2.3861863	21	—	—
58030 2002 VU_{67}	15.2	X	68.47385	75.63654	5.24744	3.69970	0.0664464	0.22466675	2.6798481	21	1 16.3	18.4
58031 2002 VH_{82}	16.3	X	153.76680	251.29807	145.85170	4.18392	0.1440961	0.28365280	2.2940947	21	3 12.6	19.4
58032 2002 VA_{86}	14.0	X	345.72577	172.79975	355.46561	12.90762	0.0461318	0.17820815	3.1274065	21	1 24.9	18.4
58033 2002 VB_{88}	14.5	X	48.53694	169.11374	264.85595	11.30934	0.0840748	0.22039443	2.7143695	21	—	—
58034 2002 VS_{101}	15.5	X	200.04149	291.61351	121.64921	3.93949	0.1059603	0.23854186	2.5748957	21	5 23.2	19.4
58035 2002 VK_{107}	15.5	X	344.38521	299.37833	302.25856	4.21900	0.1226562	0.28952771	2.2629552	21	3 24.1	17.8
58036 2002 VO_{108}	14.3	X	80.40152	202.97830	50.21780	13.42727	0.0778363	0.19803499	2.9150193	21	9 27.6	18.6
58037 2002 VL_{109}	15.3	X	163.79034	320.71181	40.54719	6.15460	0.1890026	0.17674660	3.1446236	21	2 24.6	20.5
58038 2002 VJ_{110}	15.9	X	14.39374	105.17399	11.20304	2.60803	0.1553217	0.26886989	2.3774311	21	—	—
58039 2002 VC_{113}	15.6	X	117.64922	66.71562	197.77143	0.92888	0.1642829	0.26103098	2.4247930	21	11 29.5	19.4
58040 2002 VU_{122}	15.1	X	94.27526	164.10597	335.97569	7.11173	0.1437747	0.23546597	2.5972711	21	5 19.2	18.6
58041 2002 VU_{127}	13.5	X	220.66349	56.33592	322.28540	18.27433	0.0966365	0.17935339	3.1140792	21	4 24.9	18.7
58042 2002 VV_{127}	13.1	X	108.87515	39.57339	74.90490	14.05575	0.1241219	0.22850917	2.6497219	21	5 7.3	16.8
58043 2002 VJ_{128}	15.3	X	213.91492	202.30893	197.97308	1.79724	0.1193199	0.18730864	3.0252703	21	5 22.2	20.0
58044 2002 WF	13.4	X	163.38776	66.87555	302.96930	15.77216	0.3596559	0.17978732	3.1090664	21	3 4.6	19.4
58045 2002 WY_{16}	14.4	X	220.37196	118.26392	201.72218	13.66628	0.1665947	0.23025159	2.6363372	21	2 10.8	19.0
58046 2002 XA_{14}	15.0	X	177.72741	259.26581	114.96392	21.28627	0.2945630	0.28351699	2.2948272	21	3 23.2	19.4
58047 2002 XY_{21}	15.1	X	54.75686	358.40441	44.74189	3.76860	0.1871730	0.21492010	2.7602687	21	—	—
58048 2002 XJ_{78}	14.7	X	354.89834	244.74964	69.01915	8.18260	0.1190319	0.29893654	2.2152192	21	8 21.2	16.6
58049 2002 XY_{86}	15.8	X	25.07365	179.80227	309.36736	6.31520	0.0471464	0.27478732	2.3431760	21	1 2.2	18.4
58050 2002 YA	14.3	X	200.73698	64.40367	309.82974	28.76277	0.3755750	0.23213206	2.6220802	21	3 17.7	19.9
58051 2002 YY_{2}	15.3	X	22.53888	154.23953	296.40745	1.61787	0.1193655	0.26805093	2.3822710	21	—	—
58052 2003 AN_{1}	14.6	X	50.44335	65.21655	152.36443	10.03797	0.0166592	0.18263386	3.0766766	21	6 18.2	19.0
58053 2003 AP_{5}	15.1	X	190.69802	240.01580	134.40608	6.35705	0.1809223	0.28183944	2.3039243	21	3 24.0	18.8
58054 2003 AR_{5}	15.6	X	164.72197	257.68695	245.21965	4.83061	0.1312536	0.23955328	2.5676430	21	8 8.6	19.6
58055 2003 AH_{6}	15.3	X	81.56882	84.06694	294.10155	7.23366	0.2204348	0.26645697	2.3917622	21	—	—
58056 2003 AJ_{41}	16.3	X	86.80136	318.19749	179.49173	4.82085	0.1223609	0.28087521	2.3091941	21	5 1.4	18.8
58057 2003 AG_{58}	15.3	X	82.65986	357.38904	88.78913	6.44011	0.1951868	0.22169708	2.7037263	21	3 6.2	18.6
58058 2118 $P–L$	16.2	X	125.40783	138.38913	212.39191	3.83935	0.1424688	0.23200031	2.6230727	21	—	—
58059 2690 $P–L$	15.5	X	156.26820	73.38259	25.15569	4.71682	0.2021140	0.23717280	2.5847951	21	6 8.4	19.7
58060 2751 $P–L$	14.5	X	174.07597	275.17259	125.61393	2.55549	0.2117179	0.17256564	3.1952131	21	4 19.0	19.9
58061 2769 $P–L$	15.2	X	96.36011	96.02999	184.40637	11.97316	0.1041649	0.24410443	2.5356284	21	11 23.5	19.0
58062 4034 $P–L$	16.5	X	33.14035	26.05519	344.93099	4.40528	0.2089704	0.30987504	2.1627766	21	—	—
58063 6024 $P–L$	14.7	X	79.75730	271.89994	224.52225	3.80574	0.1251327	0.17124686	3.2115964	21	4 28.9	18.9
58064 6220 $P–L$	15.6	X	187.56219	110.59254	327.80358	2.28844	0.1029388	0.23855175	2.5748246	21	6 10.6	19.5
58065 6814 $P–L$	14.8	X	68.84615	315.74905	23.70249	1.97830	0.1172383	0.18083000	3.0971036	21	12 24.2	19.2
58066 7579 $P–L$	15.5	X	302.36430	355.12656	24.67907	6.39410	0.1691166	0.22490980	2.6779171	21	8 7.3	18.6
58067 2269 $T–1$	15.6	X	96.32541	96.56942	29.10111	6.26243	0.1247638	0.27730045	2.3289974	21	4 27.2	18.1
58068 3143 $T–1$	14.6	X	208.59437	73.65039	2.72835	26.64586	0.1540960	0.24157911	2.5532684	21	7 1.7	19.2
58069 4310 $T–1$	13.9	X	108.43075	67.93359	18.94517	13.96325	0.1703109	0.21730178	2.7400629	21	4 5.2	17.8
58070 1034 $T–2$	16.4	X	58.05571	251.99795	189.90182	6.13477	0.3018434	0.27433287	2.3457631	21	—	—
58071 1308 $T–2$	14.6	X	147.48676	214.86990	154.22014	2.83741	0.0938190	0.21497016	2.7598401	21	2 1.5	18.6
58072 1476 $T–2$	14.9	X	150.75511	85.73096	356.12749	10.75211	0.1312345	0.17790588	3.1309479	21	5 8.4	19.9
58073 1514 $T–2$	15.8	X	113.31194	164.28646	238.85482	0.50769	0.0507055	0.23544936	2.5973933	21	1 23.9	19.2
58074 1612 $T–2$	15.8	X	205.60315	17.40954	348.58391	9.84837	0.2054631	0.23895037	2.5719602	21	3 26.2	20.3
58075 2205 $T–2$	14.0	X	338.88566	89.99873	55.99436	1.84145	0.1471161	0.17151798	3.2082112	21	—	—
58076 2208 $T–2$	16.1	X	281.61404	311.31702	12.93443	3.46542	0.1143582	0.28249457	2.3003609	21	4 22.2	19.0
58077 2209 $T–2$	15.4	X	65.82494	210.27288	214.30012	2.93153	0.0804911	0.21287087	2.7779551	21	—	—
58078 3003 $T–2$	15.0	X	163.93597	157.92862	174.45655	9.01490	0.1310295	0.21434465	2.7652068	21	1 8.9	19.3
58079 3244 $T–2$	15.1	X	36.60419	281.39162	143.94544	3.94298	0.0664016	0.21158577	2.7891920	21	—	—
58080 4228 $T–2$	15.1	X	231.71856	229.91277	36.05888	5.64801	0.0296658	0.21400291	2.7681499	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58081 4817 *T–2*	15.7	X	19.82039	208.73764	33.02150	6.25851	0.0764074	0.28348885	2.2949791	21	6 5.1	17.9
58082 5072 *T–2*	14.5	X	257.91113	309.74359	335.73932	14.81259	0.1142737	0.21708282	2.7419051	21	2 14.3	18.7
58083 5459 *T–2*	15.1	X	67.63036	319.44186	264.21392	6.45806	0.1392223	0.28486221	2.2875969	21	8 7.7	17.8
58084 Hiketaon	12.6	X	253.42302	99.33158	266.88780	7.95557	0.1372237	0.08332005	5.1916216	21	5 22.9	19.8
58085 1199 *T–3*	14.6	X	148.06141	87.41791	240.41958	7.83956	0.1682459	0.20958779	2.8068900	21	—	—
58086 2017 *T–3*	15.2	X	305.61768	18.95272	4.33143	6.69660	0.2187880	0.24466363	2.5317633	21	8 10.9	17.8
58087 2156 *T–3*	15.0	X	246.31569	242.96335	213.24819	12.60929	0.1615403	0.24424516	2.5346543	21	8 28.5	18.8
58088 2256 *T–3*	15.7	X	44.99064	251.67055	356.92300	6.74367	0.0883083	0.28801828	2.2708547	21	8 5.5	18.1
58089 2352 *T–3*	16.1	X	188.06683	71.31531	334.67523	2.87093	0.1380865	0.28359794	2.2943905	21	4 26.5	19.4
58090 3452 *T–3*	16.0	X	194.94171	11.16194	44.15393	3.47359	0.1485108	0.23943641	2.5684784	21	5 18.9	20.0
58091 3768 *T–3*	14.9	X	308.46976	219.89059	68.10765	1.45079	0.1921035	0.17306763	3.1890316	21	4 10.3	19.1
58092 4053 *T–3*	14.2	X	174.96138	268.82452	154.14015	6.50773	0.1247257	0.17126775	3.2113353	21	5 14.5	19.4
58093 1934 *JP*	15.9	X	2.63581	16.43022	138.54161	1.58372	0.2302517	0.28175822	2.3043670	21	—	—
58094 1972 *AP*	14.8	X	17.81853	52.36036	77.67378	13.09040	0.1878017	0.26074283	2.4265791	21	—	—
58095 Oranienstein	13.4	X	41.84832	316.47951	335.11432	2.39706	0.1177262	0.12275229	4.0097409	21	9 16.5	18.6
58096 Oineus	12.7	X	328.44026	26.19926	41.25638	3.59133	0.1155326	0.08268255	5.2182732	21	11 2.8	18.9
58097 Alimov	14.2	X	304.34361	11.07301	34.18195	12.91436	0.2596419	0.23933371	2.5692131	21	9 8.6	16.9
58098 Quirrenbach	15.2	X	93.12360	1.47291	47.62057	22.83581	0.0825230	0.36916875	1.9245067	21	—	—
58099 1978 RB_{10}	16.1	X	91.43701	357.20800	341.62357	4.66395	0.1823459	0.30491280	2.1861785	21	—	—
58100 1978 VQ_7	14.6	X	72.18866	242.02397	251.13436	7.54471	0.0882611	0.21652531	2.7466096	21	3 31.4	18.2
58101 1979 MV_4	15.5	X	62.01858	325.17561	258.48127	3.43612	0.1566825	0.28203567	2.3028555	21	8 3.3	18.1
58102 1979 MW_4	14.8	X	166.58582	294.63876	125.09536	13.49759	0.1823261	0.22906132	2.6454621	21	5 5.3	19.4
58103 1979 MQ_5	14.8	X	275.72693	100.51898	265.14359	8.76541	0.0706110	0.18647568	3.0342725	21	6 22.4	19.1
58104 1979 ML_7	16.2	X	36.75552	158.76273	125.46619	3.23498	0.1596775	0.28363827	2.2941730	21	9 26.3	18.5
58105 1979 MN_8	14.9	X	79.44338	169.34012	199.87387	3.98736	0.1758281	0.17185431	3.2040240	21	—	—
58106 1979 MO_8	14.4	X	79.27963	9.91273	284.95863	9.37483	0.0747202	0.19307358	2.9647459	21	11 6.7	18.8
58107 1979 OZ_{10}	15.9	X	100.48412	29.88672	293.36126	17.18386	0.0657530	0.36030575	1.9559388	21	—	—
58108 1979 QE_1	15.5	X	73.77342	151.77523	154.83229	5.12069	0.2581330	0.23981097	2.5658033	21	12 15.5	19.6
58109 1980 *PQ*	14.4	X	195.50078	190.03943	153.32888	14.95844	0.2445223	0.23087240	2.6316091	21	2 22.7	19.0
58110 1980 UF_1	15.6	X	1.53860	347.92470	6.71069	8.32638	0.1716791	0.28894166	2.2660141	21	11 7.2	17.6
58111 1981 ER_2	14.9	X	142.67967	334.75466	190.71130	21.33406	0.2178868	0.17876707	3.1208845	21	8 15.2	20.4
58112 1981 EC_3	15.7	X	335.33467	41.95330	233.34858	7.73008	0.2446783	0.27223742	2.3577849	21	4 10.8	17.9
58113 1981 EV_4	17.0	X	0.49996	276.29807	291.98759	5.10702	0.1168890	0.29513499	2.2342010	21	3 1.8	19.1
58114 1981 EL_6	14.6	X	78.66688	14.21086	236.55905	10.05246	0.0882798	0.18073083	3.0982364	21	9 11.0	19.2
58115 1981 EB_7	14.8	X	10.10023	330.95562	316.01170	8.47583	0.0533431	0.17842757	3.1248421	21	7 26.1	18.8
58116 1981 EH_7	15.5	X	161.06025	240.67466	202.71564	14.35069	0.0915219	0.22540229	2.6740150	21	5 21.0	19.6
58117 1981 ER_7	15.9	X	96.64356	43.61579	234.83520	4.11560	0.1012416	0.28192633	2.3034509	21	11 25.1	19.0
58118 1981 EX_7	15.0	X	312.45424	153.54382	193.05058	13.46896	0.1159657	0.22835874	2.6508854	21	7 10.3	18.5
58119 1981 EJ_9	15.7	X	313.19654	203.81866	312.29666	3.99121	0.1085722	0.24017119	2.5632371	21	—	—
58120 1981 EU_{11}	15.0	X	3.25848	308.45804	344.88955	11.17748	0.1902185	0.22669301	2.6638553	21	8 2.7	17.5
58121 1981 EA_{13}	15.6	X	212.91508	75.05566	249.93223	5.95814	0.1439107	0.26803418	2.3823703	21	2 6.8	19.3
58122 1981 EW_{19}	16.2	X	90.07390	268.28343	341.93815	7.91371	0.1091252	0.27939239	2.3173573	21	10 8.7	19.4
58123 1981 EE_{22}	14.6	X	137.81706	177.90577	12.67453	4.94874	0.0960145	0.18076315	3.0978672	21	9 9.2	19.3
58124 1981 EK_{29}	15.0	X	292.06710	234.99669	217.25971	5.73733	0.0307675	0.20999590	2.8032522	21	11 12.0	18.5
58125 1981 EO_{31}	15.8	X	63.87639	34.02795	175.41282	3.33914	0.1290814	0.22589833	2.6700991	21	7 10.9	19.1
58126 1981 EJ_{32}	15.7	X	140.85922	357.20001	270.98510	4.92587	0.1205548	0.23465475	2.6032536	21	12 20.5	19.8
58127 1981 EG_{37}	16.6	X	223.08822	244.54405	200.39974	7.28778	0.0472075	0.30275607	2.1965486	21	8 3.5	19.5
58128 1981 EJ_{37}	15.8	X	73.33594	107.97560	330.69841	6.63510	0.0922918	0.26815634	2.3816467	21	1 11.7	18.3
58129 1981 EU_{37}	15.7	X	116.85487	179.88948	261.51099	4.43451	0.0877161	0.22215945	2.6999736	21	3 24.2	19.5
58130 1981 ER_{38}	15.2	X	160.28274	267.60140	189.14914	11.53053	0.1627207	0.22666949	2.6640396	21	6 9.5	19.7
58131 1981 EQ_{39}	15.7	X	189.76596	336.54692	240.16779	0.46944	0.1515037	0.18674704	3.0313324	21	11 26.9	20.5
58132 1981 EW_{39}	14.8	X	10.07030	276.80220	358.15565	10.30146	0.1044026	0.17788306	3.1312157	21	7 13.6	18.8
58133 1981 EN_{40}	15.8	X	70.82384	264.41200	196.10847	2.18417	0.1260843	0.26960768	2.3730918	21	2 8.9	18.0
58134 1981 EW_{40}	15.0	X	233.71253	345.03701	353.18170	10.14577	0.1609815	0.27085790	2.3657837	21	3 16.1	18.8
58135 1981 EK_{42}	14.7	X	150.01612	305.24843	196.06928	4.93025	0.1046605	0.17835680	3.1256686	21	7 20.9	19.6
58136 1981 EV_{42}	15.5	X	310.35896	287.90890	358.98560	8.29084	0.1596448	0.27171766	2.3607906	21	4 2.3	18.4
58137 1981 EJ_{44}	14.4	X	315.74632	134.57118	193.01800	8.91931	0.0739836	0.17858579	3.1229961	21	6 26.6	18.6
58138 1981 ET_{45}	15.2	X	101.13883	274.82769	193.95612	12.94200	0.2791697	0.17528136	3.1621240	21	5 12.9	20.1
58139 1981 EP_{46}	15.2	X	133.75358	60.73984	353.67055	6.62330	0.3013909	0.22345743	2.6895081	21	4 2.8	19.7
58140 1981 *SN*	14.0	X	55.35056	156.12958	215.78174	5.16993	0.1569635	0.25180238	2.4836830	21	—	—
58141 1981 UW_{22}	15.6	X	39.22922	218.73427	107.57799	5.15120	0.2556209	0.29747193	2.2224844	21	12 14.7	18.3
58142 1983 RW_3	15.5	X	312.45674	332.45199	352.29528	13.43390	0.1709685	0.28209850	2.3025135	21	5 25.8	18.4
58143 1983 VD_7	12.8	X	74.03651	303.01026	36.70145	12.26180	0.2900914	0.23860206	2.5744626	21	—	—
58144 1983 *WU*	14.4	X	127.44016	9.24844	60.96365	10.99975	0.2602814	0.21922040	2.7240521	21	4 18.0	18.8
58145 1986 PT_1	15.7	X	337.46823	207.72782	128.86940	4.41183	0.2056002	0.28135968	2.3065426	21	8 10.7	17.0
58146 1986 *RU*	15.0	X	120.63865	227.86428	189.70224	11.27569	0.2207551	0.26837434	2.3803568	21	3 11.2	18.2
58147 1986 *WK*	14.3	X	197.10400	335.05745	33.34022	6.80842	0.3718247	0.21348689	2.7726087	21	3 28.7	19.6
58148 1987 SH_4	13.4	X	47.48639	314.01767	17.73425	13.87800	0.1984053	0.23560886	2.5962209	21	12 9.1	17.2
58149 1987 SX_{11}	15.1	X	249.96925	236.85049	172.91772	26.13287	0.3801445	0.22651261	2.6652695	21	6 16.3	20.3
58150 1988 CY_4	15.6	X	232.83900	26.86116	240.27467	6.14500	0.1362886	0.26337049	2.4104122	21	—	—
58151 1988 CG_7	14.6	X	164.46575	186.89866	223.45187	8.45005	0.1643172	0.21348778	2.7726010	21	4 15.5	19.2
58152 Natsöderblom	15.4	X	101.99883	23.61699	271.87806	12.27276	0.2270028	0.24631385	2.5204427	21	12 23.9	19.5
58153 1988 RH_{11}	12.7	X	294.55604	131.25810	184.48424	1.91397	0.1087753	0.08374431	5.1740726	21	5 15.1	19.5
58154 1988 RJ_{11}	16.5	X	182.47067	136.99728	169.88262	4.23205	0.2306938	0.28346400	2.2951132	21	—	—
58155 1988 *VD*	15.5	X	34.92960	80.63960	27.53049	22.26179	0.1336129	0.36926008	1.9241894	21	—	—
58156 1989 *GL*	14.6	X	145.95154	156.87192	17.06857	21.41444	0.1905480	0.28640216	2.2793894	21	9 14.1	18.5
58157 1989 GC_3	15.6	X	4.34605	244.31964	10.19695	5.49117	0.1364638	0.27882763	2.3204854	21	5 25.7	17.7
58158 1989 *RA*	15.7	X	287.45388	171.88174	175.97739	9.18897	0.2186045	0.27289688	2.3539849	21	5 20.8	18.9
58159 1989 SL_4	15.0	X	100.10958	282.92784	102.57406	3.40379	0.2002356	0.25728705	2.4482594	21	—	—
58160 1989 SX_4	14.1	X	166.51522	212.47418	182.71335	12.65064	0.1705528	0.23271238	2.6177192	21	3 30.1	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58161 1989 SH_5	15.4	X	235.97830	230.59207	116.64429	3.38859	0.2050246	0.26696383	2.3887338	21	3 29.8	19.2
58162 1989 TS_6	15.3	X	211.97805	56.41840	32.76989	14.32318	0.1302077	0.24055031	2.5605432	21	7 23.9	19.5
58163 Minnesang	15.6	X	145.42249	235.29947	176.84047	1.09350	0.1448806	0.26223894	2.4173411	21	3 24.8	19.1
58164 1989 WV_3	14.8	X	57.02680	113.19869	282.79940	5.43665	0.1325228	0.25319845	2.4745450	21	—	—
58165 1990 HQ_5	14.5	X	293.02070	346.41107	84.05736	6.35750	0.1284192	0.29337510	2.2431271	21	10 21.3	16.6
58166 1990 OF_3	14.2	X	202.97821	40.03937	288.34575	11.68443	0.2789439	0.17711952	3.1402081	21	2 12.7	20.0
58167 1990 QM_3	15.4	X	236.31720	10.05584	352.50793	7.18500	0.1467859	0.27787768	2.3257709	21	4 16.9	18.9
58168 1990 QB_9	15.2	X	255.15964	241.03140	146.38931	6.90654	0.1913270	0.28138692	2.3063937	21	6 8.4	18.6
58169 1990 SD_3	15.3	X	256.86562	333.46608	53.65087	5.10295	0.1994928	0.28027813	2.3124725	21	6 7.6	18.5
58170 1990 SB_5	15.6	X	177.05616	210.41661	150.36389	4.89507	0.1771830	0.27181490	2.3602275	21	2 21.1	19.2
58171 1990 SC_5	15.9	X	47.80307	271.11227	100.10228	2.33490	0.2034758	0.26096163	2.4252226	21	—	—
58172 1990 SD_8	14.7	X	253.68261	269.42044	112.97299	4.55412	0.2096839	0.18477477	3.0528650	21	6 1.2	19.5
58173 1990 SS_{10}	15.1	X	257.03663	22.83405	337.52984	10.02835	0.1476218	0.27918804	2.3184879	21	5 4.2	18.7
58174 1990 SZ_{10}	15.6	X	121.68021	332.40729	356.43951	7.01492	0.1778240	0.26525887	2.3989587	21	—	—
58175 1990 SE_{15}	15.8	X	75.70955	86.68993	234.76528	5.96943	0.2597060	0.29312411	2.2444074	21	—	—
58176 1990 SN_{16}	15.1	X	282.08754	342.16116	28.00915	4.10996	0.2170898	0.28294075	2.2979419	21	6 11.8	18.0
58177 1990 TB_6	15.2	X	278.07002	33.71620	332.31282	6.94943	0.1189348	0.28198049	2.3031559	21	6 16.4	18.1
58178 1990 UY_1	14.7	X	181.68762	284.46138	107.06649	8.99851	0.1365409	0.27251542	2.3561811	21	4 7.9	18.4
58179 1990 UN_3	15.8	X	184.13001	233.58882	156.48615	5.20650	0.2303352	0.27300936	2.3533383	21	4 8.5	19.7
58180 1990 WG_6	15.7	X	219.44871	151.12011	207.04791	5.37912	0.2167456	0.27312732	2.3526606	21	3 25.9	19.7
58181 1991 CG_1	14.3	X	172.25455	134.16462	346.59098	4.61510	0.1953693	0.24106681	2.5568845	21	7 21.9	18.6
58182 1991 PX_2	15.1	X	310.09518	343.35310	332.79694	4.15116	0.1393119	0.22648345	2.6654983	21	5 21.4	18.4
58183 1991 PH_9	14.7	X	283.96919	39.17349	326.23734	13.11715	0.2763887	0.22675290	2.6633862	21	5 29.9	18.8
58184 Masayukiyamamoto	15.5	X	48.81258	294.30876	31.91804	1.74163	0.1978515	0.26768165	2.3844615	21	12 11.8	18.8
58185 Rokkosan	15.6	X	186.78810	6.27834	359.00563	5.15772	0.2024079	0.28266436	2.2994396	21	3 8.1	19.1
58186 Langkavel	16.1	X	43.30659	77.78596	289.14829	2.04246	0.0248083	0.30172438	2.2015528	21	—	—
58187 1991 TD	14.8	X	322.47205	318.81696	42.73782	14.47522	0.2004683	0.22908054	2.6453141	21	8 19.9	17.7
58188 1991 TA_9	14.1	X	309.22401	327.52203	35.25867	5.00086	0.1708262	0.12596538	3.9412615	21	7 20.9	19.2
58189 1991 VV_9	16.5	X	17.04780	198.51094	117.07056	2.35578	0.1851814	0.26100330	2.4249645	21	10 8.9	18.7
58190 1991 VH_{12}	16.1	X	348.43775	231.13630	53.66236	6.00172	0.1540714	0.28791985	2.2713722	21	6 9.5	17.8
58191 Dolomiten	15.2	X	210.92288	160.64665	284.17434	6.54137	0.0718360	0.28559349	2.2836901	21	7 17.3	18.1
58192 1992 AQ	15.4	X	157.09811	18.70561	105.65114	25.12518	0.2202956	0.28280313	2.2986874	21	7 13.1	19.2
58193 1992 DL_6	14.7	X	78.41290	120.48212	119.13862	2.52970	0.0969345	0.18124772	3.0923432	21	9 3.2	18.9
58194 1992 DR_6	15.6	X	92.42494	16.43911	98.23651	2.27124	0.0575294	0.23973974	2.5663115	21	4 1.6	18.8
58195 1992 DH_7	15.3	X	135.70336	220.11676	137.68127	6.83270	0.1221182	0.26618115	2.3934141	21	—	—
58196 Ashleyess	15.1	X	41.94091	320.17750	190.72773	26.04791	0.2616206	0.23813126	2.5778548	21	3 18.6	17.0
58197 1992 EH_2	16.1	X	145.18483	289.31459	137.13078	6.87443	0.1729269	0.27618502	2.3352639	21	4 16.8	19.6
58198 1992 EU_2	16.4	X	239.25534	231.04273	8.51256	3.84584	0.1835455	0.29707749	2.2244512	21	—	—
58199 1992 EC_5	15.6	X	124.81001	96.30949	0.82399	8.33115	0.1737862	0.27658143	2.3330320	21	4 29.6	18.9
58200 1992 EV_6	15.5	X	311.73142	197.57222	91.45311	5.60643	0.2637184	0.27376299	2.3490173	21	3 25.9	18.5
58201 1992 ED_7	14.7	X	216.31717	10.40081	120.12278	10.14435	0.0798941	0.18525221	3.0476175	21	9 20.8	19.3
58202 1992 EO_7	15.8	X	110.48243	86.05538	59.66535	5.94830	0.0999992	0.27782795	2.3260485	21	6 11.0	18.7
58203 1992 EC_9	15.2	X	175.00621	285.45949	119.97274	7.55931	0.1119995	0.27563840	2.3383503	21	4 16.7	18.7
58204 1992 EK_{10}	15.1	X	250.48524	274.71382	163.39443	12.08486	0.2192558	0.18504903	3.0498479	21	8 2.9	20.0
58205 1992 EX_{12}	16.0	X	308.70580	317.74167	222.80710	0.79363	0.1195701	0.26508609	2.4000010	21	—	—
58206 1992 ER_{13}	15.2	X	133.52446	350.75250	193.69258	5.21378	0.1617873	0.18085362	3.0968339	21	8 29.8	20.2
58207 1992 EF_{14}	16.0	X	180.18678	247.93096	178.28302	4.89529	0.1548066	0.27838858	2.3229245	21	5 18.4	19.5
58208 1992 EX_{16}	15.5	X	332.15544	136.23249	173.38344	7.39708	0.1648845	0.27849561	2.3223294	21	6 15.4	17.6
58209 1992 EH_{19}	15.1	X	107.42094	1.98577	114.37684	3.13324	0.2020240	0.17550296	3.1594617	21	5 18.6	19.8
58210 1992 EW_{21}	14.5	X	121.61239	300.67939	128.59774	11.05251	0.1303513	0.17237497	3.1975689	21	4 1.7	19.4
58211 1992 HF_4	14.7	X	233.18341	85.71161	206.93578	8.92855	0.2564932	0.26331400	2.4107569	21	1 16.4	19.1
58212 1992 OQ_5	14.5	X	242.20082	263.05218	149.83098	13.04200	0.2036579	0.23406272	2.6076415	21	6 27.6	18.8
58213 1992 QP	15.0	X	275.07562	171.18805	156.45172	10.90221	0.2609950	0.26496471	2.4007339	21	4 6.2	18.8
58214 Amorim	14.3	X	327.65996	50.63544	336.47259	14.40035	0.1576364	0.20506418	2.8480187	21	9 24.9	17.5
58215 von Klitzing	15.0	X	335.94949	348.17120	14.53175	6.83700	0.1138178	0.23740903	2.5830802	21	9 19.3	17.7
58216 1992 SR_9	15.8	X	173.06295	336.86323	2.31109	8.07406	0.0152582	0.25398778	2.4694155	21	1 10.7	19.1
58217 Peterhebel	15.2	X	290.91422	19.67422	348.16309	2.80741	0.2120767	0.23379126	2.6096597	21	6 23.2	18.6
58218 1992 UZ_7	14.6	X	230.13007	198.86361	151.05901	1.53880	0.1739467	0.22526304	2.6751168	21	3 31.8	18.9
58219 1992 WZ_2	14.0	X	265.26597	315.78668	55.13351	15.27727	0.1248669	0.22851918	2.6496445	21	6 5.4	17.7
58220 1993 BY_4	16.4	X	348.95571	165.83174	315.01439	1.64420	0.0614182	0.30982092	2.1630284	21	—	—
58221 Boston	14.4	X	75.77815	329.96155	142.25786	9.89266	0.1128126	0.21355655	2.7720057	21	3 18.7	17.9
58222 1993 FA_{18}	15.3	X	229.02847	101.56535	103.21156	5.27927	0.0942418	0.30246908	2.1979378	21	—	—
58223 1993 FO_{18}	14.6	X	42.17775	277.55198	36.07299	14.63118	0.1808756	0.18913934	3.0057173	21	10 31.8	18.6
58224 1993 FM_{20}	14.4	X	143.75412	201.59317	196.63220	8.84821	0.0867061	0.17469599	3.1691838	21	3 8.3	19.1
58225 1993 FY_{20}	15.5	X	93.50031	119.76603	29.62870	1.28020	0.1578220	0.18012775	3.1051479	21	6 6.3	19.8
58226 1993 FW_{22}	14.2	X	187.88442	10.70806	340.71865	4.30870	0.1666205	0.17245814	3.1965408	21	3 2.2	19.4
58227 1993 FB_{26}	15.7	X	162.01699	288.33575	323.79434	1.92953	0.1767267	0.29927072	2.2135699	21	12 29.3	19.1
58228 1993 FL_{26}	15.8	X	145.39687	2.03609	315.66933	3.68978	0.1687106	0.30370846	2.1919541	21	—	—
58229 1993 FZ_{27}	15.5	X	320.36369	232.65875	253.95472	2.56060	0.1273788	0.20071801	2.8889841	21	—	—
58230 1993 FR_{39}	16.2	X	299.85474	56.55287	89.98203	1.06192	0.0781347	0.30439325	2.1886654	21	—	—
58231 1993 FQ_{40}	14.1	X	130.22678	297.82231	79.50858	2.03035	0.1639912	0.17086282	3.2164070	21	2 8.9	18.9
58232 1993 FD_{41}	16.0	X	328.91478	264.53327	171.34399	5.61527	0.0982828	0.30088109	2.2056645	21	—	—
58233 1993 FN_{50}	16.3	X	164.46282	108.66039	190.98034	6.43367	0.1864975	0.30379279	2.1915484	21	—	—
58234 1993 FY_{50}	15.4	X	274.27741	99.45874	236.60712	1.21205	0.0837629	0.21497317	2.7598144	21	5 9.5	19.1
58235 1993 FW_{52}	15.9	X	117.34365	101.58270	140.85719	4.23679	0.1227006	0.29482383	2.2357727	21	11 5.4	19.1
58236 1993 FK_{56}	14.6	X	105.57969	117.53271	27.26927	12.58495	0.0945117	0.18082707	3.0971370	21	6 3.9	19.3
58237 1993 FR_{66}	14.6	X	225.39254	51.93456	346.21995	9.88707	0.0677237	0.18240502	3.0792493	21	6 2.1	19.4
58238 1993 FH_{77}	14.5	X	200.34067	163.89160	197.40116	1.24306	0.0951133	0.17498378	3.1657080	21	3 23.8	19.4
58239 1993 FS_{77}	14.2	X	174.19625	352.70306	350.27856	2.73995	0.1387135	0.16953093	3.2332312	21	2 8.7	19.3
58240 1993 FV_{81}	15.6	X	294.53415	258.62684	85.11725	5.88480	0.1166326	0.25205196	2.4820431	21	6 9.7	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58241 1993 HH_4	15.3	X	49.13554	257.64444	29.96230	27.68907	0.0794881	0.22202254	2.7010835	21	10 6.7	19.0
58242 1993 HJ_4	14.2	X	176.16106	4.59942	42.87818	12.61703	0.1297709	0.17825752	3.1268291	21	4 25.9	19.3
58243 1993 NG_1	15.2	X	94.74580	171.29049	298.25318	5.99455	0.0807498	0.27330839	2.3516214	21	3 22.8	18.1
58244 1993 OX_5	14.9	X	184.65675	134.11026	284.36628	5.21484	0.1002558	0.27570079	2.3379975	21	5 8.9	18.3
58245 1993 OS_7	15.2	X	23.93414	205.81061	115.70819	7.08154	0.1585030	0.28625390	2.2801764	21	11 1.6	17.6
58246 1993 OP_{12}	15.4	X	271.89704	197.61718	153.21809	2.41809	0.1580259	0.27776107	2.3264218	21	5 12.7	18.5
58247 1993 PH_3	16.1	X	344.31693	184.92981	162.81091	6.39267	0.2455416	0.28272362	2.2991183	21	9 23.7	16.9
58248 1993 PO_5	14.6	X	329.19128	20.95105	291.95740	5.90650	0.1644504	0.17310465	3.1885769	21	6 18.0	18.3
58249 1993 PC_6	15.0	X	210.07356	182.18470	155.69575	25.05733	0.1973289	0.26871146	2.3783655	21	2 22.7	19.0
58250 1993 QU_1	15.3	X	187.84928	183.76917	160.16259	6.32668	0.2570704	0.26640641	2.3920648	21	2 13.8	19.5
58251 1993 QS_2	16.1	X	283.13871	333.17870	336.11035	1.94343	0.2326075	0.27382772	2.3486471	21	3 20.5	19.5
58252 1993 QG_4	15.8	X	293.65457	204.71478	147.23662	2.46614	0.2386169	0.27723836	2.3293451	21	5 30.0	18.5
58253 1993 QJ_5	16.0	X	170.54907	351.05023	299.36644	3.59530	0.1649534	0.29644302	2.2276241	21	—	—
58254 1993 QN_5	16.4	X	288.24985	108.02865	238.44972	2.39336	0.2033526	0.31205918	2.1526730	21	5 17.6	18.7
58255 1993 RS_5	14.9	X	328.14024	272.62602	204.39420	4.23117	0.0648150	0.29121045	2.2542292	21	—	—
58256 1993 RL_7	14.5	X	90.77582	107.81286	159.63892	1.05227	0.1720411	0.17930131	3.1146822	21	10 29.7	19.3
58257 1993 RN_9	15.0	X	82.35434	68.37938	313.38893	1.49835	0.2053735	0.25799662	2.4437683	21	—	—
58258 1993 RU_{10}	15.0	X	206.20604	89.94748	225.48233	0.95941	0.0951859	0.19419956	2.9532750	21	2 1.0	19.6
58259 1993 RA_{13}	15.8	X	173.11361	156.33854	183.35327	2.49450	0.2050044	0.22862241	2.6488469	21	1 29.8	20.1
58260 1993 SO	14.9	X	214.59317	176.97982	167.88792	8.27799	0.0953640	0.26969951	2.3725531	21	3 7.4	18.1
58261 1993 SD_1	14.8	X	223.76032	332.17495	39.18616	3.98548	0.1940632	0.27108509	2.3644618	21	4 17.3	18.4
58262 1993 ST_2	15.5	X	37.13913	164.25727	190.44963	5.32193	0.2064130	0.28726046	2.2748468	21	—	—
58263 1993 SO_4	16.2	X	91.77958	226.42242	152.06933	2.21150	0.2292390	0.29437514	2.2380440	21	—	—
58264 1993 SW_7	15.7	X	241.89727	355.39154	351.46863	4.15937	0.2086806	0.23548622	2.5971222	21	4 3.3	20.0
58265 1993 TJ_{12}	15.0	X	37.11361	43.23919	359.05935	4.54120	0.1855338	0.25370807	2.4712302	21	—	—
58266 1993 TN_{15}	15.8	X	64.39702	16.84195	50.83146	2.02787	0.1597299	0.25890701	2.4380363	21	—	—
58267 1993 TB_{16}	14.5	X	348.76002	287.60089	34.41335	2.49163	0.1723504	0.17256980	3.1951617	21	8 7.5	17.9
58268 1993 TQ_{19}	15.8	X	97.32730	185.03718	192.16026	6.35460	0.1209908	0.25817993	2.4426115	21	—	—
58269 1993 TG_{20}	15.3	X	208.49953	287.29480	55.55945	2.96488	0.2157740	0.26708090	2.3880358	21	3 1.4	19.3
58270 1993 TK_{22}	15.4	X	72.65509	53.12670	40.23610	3.03868	0.1794001	0.26158987	2.4213381	21	2 13.2	17.6
58271 1993 TT_{22}	15.4	X	343.16130	104.94611	187.22565	6.38300	0.1250621	0.27546514	2.3393307	21	6 14.8	17.7
58272 1993 TZ_{27}	15.7	X	248.99172	299.76134	167.07948	4.77038	0.2019591	0.24379044	2.5378051	21	9 13.9	19.0
58273 1993 TA_{31}	15.9	X	208.43992	296.07760	147.58588	4.28376	0.2338764	0.23756961	2.5819161	21	7 3.6	20.4
58274 1993 TY_{31}	14.4	X	69.46341	230.28576	188.40205	11.53014	0.1860773	0.22250113	2.6972088	21	—	—
58275 1993 TR_{32}	16.0	X	324.14343	255.94982	139.72459	3.87686	0.1000246	0.28173618	2.3044872	21	10 25.3	18.1
58276 1993 TB_{33}	16.1	X	204.36035	235.14744	107.86517	3.37454	0.1932947	0.26625019	2.3930004	21	2 25.7	19.9
58277 1993 TW_{33}	14.7	X	75.38844	236.94361	99.20201	5.24391	0.0516959	0.21644326	2.7473037	21	12 26.5	18.5
58278 1993 TA_{34}	15.8	X	164.60698	4.65872	74.34500	4.63392	0.1963817	0.26910190	2.3760644	21	5 21.5	19.6
58279 Kamerlingh	13.5	X	90.29811	359.79800	125.93320	5.84071	0.1381801	0.12438544	3.9745658	21	5 6.9	19.1
58280 1993 UC_2	15.8	X	254.83942	157.13423	14.56273	5.96653	0.0854137	0.25223354	2.4808518	21	—	—
58281 1993 UR_5	15.8	X	352.56900	238.16665	80.11862	6.71623	0.1963705	0.27868017	2.3213039	21	8 23.2	17.4
58282 1993 UB_6	15.0	X	260.30664	214.62253	108.72822	5.83116	0.1606644	0.26972906	2.3723798	21	3 26.6	18.6
58283 1993 UO_7	16.2	X	288.39800	238.06790	84.94799	7.93302	0.1452788	0.27233067	2.3572466	21	4 29.5	19.2
58284 1993 VW_3	15.5	X	220.35201	326.25392	30.90445	6.32043	0.2605929	0.26823650	2.3811722	21	3 27.5	19.6
58285 1993 YN	14.9	X	175.59999	107.98692	218.99381	7.38477	0.3142373	0.26052153	2.4279531	21	1 18.2	19.2
58286 1993 YO_1	16.3	X	164.39102	230.12508	231.30136	2.54359	0.1186956	0.23379069	2.6096639	21	6 16.9	20.2
58287 1994 AE_1	14.0	X	27.96575	46.69055	291.57360	16.93247	0.2315910	0.24348619	2.5399188	21	11 30.4	17.3
58288 1994 CF_{14}	13.9	X	62.30209	318.12000	11.93998	10.71604	0.1282810	0.23890874	2.5722590	21	12 16.9	17.7
58289 1994 CC_{16}	15.1	X	212.08504	351.22540	103.59451	3.60964	0.1328071	0.23204235	2.6227559	21	7 27.4	19.0
58290 1994 CH_{17}	14.6	X	153.82515	346.26029	87.26789	5.12471	0.0743481	0.22389281	2.6860202	21	4 29.5	18.4
58291 1994 GA	14.6	X	158.04440	218.84466	229.77373	27.59025	0.1322818	0.22703226	2.6612009	21	5 25.2	18.8
58292 1994 GC	14.5	X	323.48864	276.14102	109.52571	3.18734	0.0894936	0.19904397	2.9051599	21	9 26.3	18.0
58293 1994 GQ_5	14.8	X	320.60030	288.25047	21.62469	14.94692	0.1204977	0.22279739	2.6948173	21	5 29.8	18.3
58294 1994 JJ_5	13.7	X	276.82380	293.12371	45.21478	6.78804	0.1582031	0.21927869	2.7235693	21	5 5.0	17.7
58295 1994 JJ_9	15.1	X	32.18837	67.37218	161.15446	8.24142	0.2250271	0.22087578	2.7104245	21	6 27.7	17.8
58296 1994 LF_1	14.2	X	343.63258	54.72953	231.70579	34.00193	0.2513537	0.21854852	2.7296323	21	5 24.7	16.7
58297 1994 PA_3	14.6	X	293.17060	179.42389	199.83308	1.44737	0.1466169	0.18011668	3.1052751	21	7 21.9	18.7
58298 1994 PB_3	15.2	X	270.15525	302.78732	157.98478	6.12047	0.0938119	0.25989590	2.4318480	21	10 25.4	18.0
58299 1994 PH_3	13.6	X	283.60719	92.40348	330.61418	9.65616	0.1035338	0.18301000	3.0724595	21	9 8.8	17.8
58300 1994 PQ_5	14.2	X	235.01614	283.71189	170.47524	5.99471	0.1379765	0.18010037	3.1054627	21	8 16.0	18.9
58301 1994 PB_8	15.8	X	262.69782	239.87226	335.64874	4.17252	0.0876495	0.30926831	2.1656043	21	—	—
58302 1994 PX_8	14.3	X	216.99778	87.52406	16.05707	1.59624	0.1459032	0.17922686	3.1155446	21	8 10.1	19.2
58303 1994 PY_9	16.1	X	355.11273	122.73456	222.63459	0.72686	0.1759460	0.29382026	2.2408609	21	10 13.9	17.4
58304 1994 PP_{10}	16.0	X	340.01676	105.38024	162.51593	3.70115	0.1273668	0.28612658	2.2808527	21	4 30.0	18.1
58305 1994 PM_{11}	14.6	X	48.41745	86.82095	239.72798	2.21560	0.1798967	0.18798067	3.0180558	21	11 24.9	18.6
58306 1994 PA_{12}	16.8	X	209.23882	170.40373	172.28097	2.46483	0.1933687	0.24189909	2.5510163	21	3 2.6	21.0
58307 1994 PM_{13}	14.5	X	227.61605	236.86428	163.68173	12.06597	0.0885161	0.17573630	3.1566642	21	6 9.3	19.5
58308 1994 PE_{16}	15.4	X	143.84199	98.79853	311.35639	4.16787	0.1249146	0.24092494	2.5578881	21	3 18.9	19.1
58309 1994 PV_{17}	15.5	X	219.35637	70.49179	156.30617	3.99157	0.0736738	0.30551149	2.1833214	21	—	—
58310 1994 PT_{20}	15.6	X	207.33375	74.87046	313.91335	1.78740	0.2236691	0.24484892	2.5304859	21	4 24.9	20.0
58311 1994 PA_{22}	16.5	X	127.35872	104.76581	317.26011	1.79895	0.1506797	0.27656067	2.3331488	21	3 15.2	19.6
58312 1994 PO_{23}	16.1	X	301.22838	44.94400	333.42271	1.31175	0.1089427	0.29061499	2.2573074	21	8 14.2	18.0
58313 1994 PX_{27}	14.7	X	211.29252	34.04282	71.65879	2.71539	0.1113616	0.17962526	3.1109362	21	8 9.9	19.5
58314 1994 PE_{29}	16.3	X	81.34326	298.34164	82.57623	1.57393	0.2127557	0.26823421	2.3811857	21	—	—
58315 1994 PV_{29}	16.0	X	313.04879	140.18809	219.02621	3.46980	0.1768488	0.29041925	2.2583216	21	7 24.2	18.1
58316 1994 PR_{30}	16.4	X	149.71055	200.07905	176.37911	6.01916	0.1885924	0.27490966	2.3424809	21	2 13.4	19.9
58317 1994 PB_{33}	16.5	X	107.06463	112.73805	203.84223	2.84381	0.1253322	0.30285445	2.1960728	21	—	—
58318 1994 PW_{37}	15.1	X	339.76346	164.96367	162.75537	5.64343	0.1507408	0.18149592	3.0895233	21	7 28.4	18.6
58319 1994 PZ_{37}	14.4	X	285.57230	234.08844	158.00463	15.67821	0.1461532	0.18030089	3.1031597	21	7 27.1	18.7
58320 1994 PE_{38}	14.3	X	322.85706	23.61855	313.09839	6.00843	0.1793351	0.18058767	3.0998736	21	7 8.1	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58321 1994 PQ_{38}	14.7	X	333.61214	200.71458	168.84103	0.42905	0.2208855	0.18291459	3.0735279	21	9 9.8	17.7
58322 1994 PU_{38}	16.1	X	26.39487	27.21866	306.56807	0.41278	0.1402425	0.29649500	2.2273637	21	11 18.7	18.4
58323 1994 PK_{39}	14.6	X	278.24192	192.88513	174.65067	2.20617	0.2253129	0.17791977	3.1307850	21	6 6.4	19.1
58324 1994 RZ_{9}	16.1	X	141.16604	69.70860	344.38745	4.91482	0.2246212	0.27578395	2.3375275	21	3 28.6	19.5
58325 1994 RE_{11}	16.3	X	226.21631	209.09438	172.29537	14.33202	0.3731009	0.24546625	2.5262415	21	4 29.1	21.2
58326 1994 RQ_{16}	14.8	X	216.52902	59.23519	181.86846	1.98501	0.0381488	0.19630381	2.9321323	21	—	—
58327 1994 SC_{9}	14.5	X	55.23722	188.12114	10.92487	5.06703	0.0844982	0.17234268	3.1979684	21	6 7.9	18.7
58328 1994 ST_{9}	16.2	X	118.74052	299.53694	175.68306	3.50647	0.1215622	0.27958430	2.3162967	21	5 13.9	19.2
58329 1994 SD_{11}	14.7	X	250.68726	321.37766	56.33513	2.19189	0.2041207	0.17397304	3.1779574	21	5 23.8	19.8
58330 1994 TK	14.3	X	84.57945	294.95976	123.49060	30.85972	0.2845513	0.23178549	2.6246932	21	2 9.7	17.2
58331 1994 TQ_{10}	16.1	X	263.98536	65.68035	203.08111	8.29991	0.1393229	0.23942665	2.5685482	21	1 21.9	20.2
58332 1994 UR	15.4	X	338.76364	351.87618	81.28455	4.14295	0.1578984	0.25813382	2.4429023	21	—	—
58333 1994 UL_{1}	15.9	X	252.49073	30.20373	356.14472	3.09786	0.2467485	0.28388133	2.2928633	21	5 27.6	19.3
58334 1994 UJ_{6}	16.6	X	232.42761	82.33983	282.38217	2.04363	0.1644986	0.28044103	2.3115769	21	4 16.1	20.0
58335 1994 UN_{11}	15.9	X	205.70637	114.13597	164.34825	3.85445	0.2219899	0.23275634	2.6173896	21	—	—
58336 1994 VP	15.8	X	325.53418	304.53605	33.70690	7.00709	0.2356615	0.28781741	2.2719111	21	7 8.4	17.5
58337 1994 WV	15.7	X	237.27375	2.96010	1.50205	1.51235	0.2457456	0.27968556	2.3157376	21	4 16.5	19.3
58338 1994 WX_{4}	15.0	X	28.91136	72.74355	91.53574	8.31766	0.1822978	0.26744490	2.3858685	21	2 28.7	17.0
58339 1994 WB_{12}	15.7	X	147.19102	86.13143	63.35273	5.06088	0.0701538	0.28134517	2.3066219	21	7 31.9	18.8
58340 1994 YO_{1}	14.5	X	207.91495	56.34074	309.56450	5.69043	0.0994218	0.27267270	2.3552750	21	3 24.4	18.1
58341 1994 YP_{1}	15.2	X	40.23056	71.35536	359.61673	2.55762	0.1930829	0.26211378	2.4181105	21	—	—
58342 1994 YR_{1}	15.0	X	107.07295	355.84323	80.18873	8.06498	0.0946090	0.26887732	2.3773873	21	3 4.9	18.0
58343 1995 BG_{5}	15.7	X	260.09887	270.94140	297.90168	6.16743	0.0699080	0.25910848	2.4367724	21	—	—
58344 1995 BZ_{12}	15.6	X	81.68914	220.08971	128.10145	10.92872	0.1345139	0.25522242	2.4614452	21	—	—
58345 Moomintroll	16.4	X	211.44169	351.84680	280.26364	17.56994	0.0426140	0.36766716	1.9297431	21	—	—
58346 1995 CV_{4}	16.4	X	205.26982	167.13715	180.04689	1.76998	0.1792385	0.26805240	2.3822623	21	3 1.7	20.2
58347 1995 CB_{8}	16.1	X	113.70602	182.11195	278.03983	2.02731	0.0387308	0.23214915	2.6219515	21	4 6.6	19.5
58348 1995 CE_{8}	15.6	X	144.21657	7.31156	279.22337	1.83424	0.1535525	0.25304436	2.4755495	21	—	—
58349 1995 DO_{5}	15.7	X	140.37073	207.44474	193.28905	1.78876	0.1691784	0.26759349	2.3849852	21	3 6.1	19.1
58350 1995 DN_{6}	16.2	X	102.77547	146.01649	135.49746	2.36362	0.1474476	0.24545306	2.5263320	21	12 3.5	20.0
58351 1995 DA_{8}	15.7	X	315.23046	33.08221	160.52418	8.36163	0.0816165	0.25965240	2.4333682	21	—	—
58352 1995 EX_{1}	16.2	X	297.47660	225.70808	311.27672	1.19892	0.1578202	0.25743941	2.4472933	21	—	—
58353 1995 EW_{4}	14.3	X	205.19966	23.81604	32.92779	2.89344	0.1745352	0.12398002	3.9832256	21	6 2.2	20.7
58354 1995 EH_{5}	16.2	X	146.38093	295.22057	133.61181	3.29724	0.1698849	0.23146416	2.6271219	21	4 22.8	20.3
58355 1995 FN	14.5	X	42.42251	214.05897	13.05374	13.39517	0.1968845	0.23246681	2.6195624	21	7 16.3	17.6
58356 1995 FR_{1}	14.5	X	52.74821	84.42731	4.74308	13.44396	0.1557547	0.22363145	2.6881126	21	1 10.4	17.6
58357 1995 HT_{1}	14.9	X	221.38062	309.03857	94.10566	14.32742	0.1688731	0.23008150	2.6376363	21	5 30.6	19.2
58358 1995 HS_{3}	15.9	X	350.69652	214.52726	146.29746	3.84160	0.0700663	0.23924461	2.5698510	21	10 11.9	18.9
58359 1995 KP_{4}	15.6	X	236.68734	270.90416	217.23253	7.07150	0.1367169	0.24231005	2.5481311	21	10 4.5	19.1
58360 1995 LM	14.4	X	235.72272	107.12626	286.88734	9.40090	0.1271021	0.18449036	3.0560018	21	6 4.5	19.2
58361 1995 MC_{3}	15.2	X	5.54661	245.82758	100.81601	14.45013	0.2196318	0.23560705	2.5962342	21	11 7.2	18.0
58362 1995 MJ_{4}	15.3	X	53.33191	221.64184	168.91363	8.61516	0.0675585	0.20315558	2.8658286	21	—	—
58363 1995 MP_{4}	14.7	X	46.97649	277.88400	247.25572	7.48808	0.0291512	0.17990777	3.1076786	21	4 5.3	19.1
58364 Feierberg	15.7	X	174.92137	326.06863	174.15036	7.72894	0.1415790	0.23586523	2.5943392	21	8 15.6	19.8
58365 Robmedrano	15.1	X	78.49274	127.58555	170.55183	6.97889	0.1138369	0.23729510	2.5839070	21	11 25.6	18.8
58366 1995 OD_{8}	13.1	X	331.44712	258.87294	171.81255	10.70379	0.0673279	0.08366228	5.1774538	21	11 15.2	19.7
58367 1995 QL	15.3	X	47.94134	104.04270	238.39454	3.54264	0.2745973	0.23455743	2.6039736	21	—	—
58368 1995 QK_{1}	15.5	X	307.46787	129.73920	165.66399	5.91847	0.0610552	0.21922909	2.7239801	21	5 4.9	19.1
58369 1995 QZ_{2}	14.5	X	258.98976	340.08916	11.13732	1.20878	0.1591315	0.18168140	3.0874201	21	5 3.7	19.3
58370 1995 QM_{5}	14.5	X	106.37539	169.02918	256.36118	6.03153	0.1253056	0.17362401	3.1822151	21	3 2.7	19.1
58371 1995 QD_{7}	15.7	X	167.09776	27.04157	195.11147	14.53687	0.0392607	0.23468692	2.6030157	21	11 24.8	19.5
58372 1995 SQ	16.7	X	325.25808	271.13022	40.60633	1.95503	0.1988452	0.25943123	2.4347510	21	5 30.1	18.9
58373 Albertoalonso	14.5	X	103.50625	71.68692	216.88431	26.42410	0.3139671	0.23670590	2.5881930	21	12 17.3	19.6
58374 1995 SF_{5}	15.9	X	342.65401	286.21144	85.56040	4.25355	0.2020383	0.30454248	2.1879504	21	11 6.3	17.0
58375 1995 SD_{22}	14.8	X	66.42404	129.36641	17.91586	9.62902	0.0415692	0.17480021	3.1679240	21	4 12.6	19.1
58376 1995 SF_{25}	15.3	X	272.43845	355.04600	114.74959	3.20704	0.0845540	0.19166307	2.9792739	21	10 30.2	19.3
58377 1995 SC_{26}	16.4	X	183.26251	242.55421	338.98126	1.50938	0.1592693	0.27211534	2.3584900	21	12 7.9	19.9
58378 1995 SO_{27}	15.1	X	241.92068	129.89394	191.22853	7.48334	0.2693706	0.21335182	2.7737787	21	3 1.9	20.0
58379 1995 SY_{27}	16.0	X	47.36179	131.96062	17.93602	7.14367	0.0484404	0.28649052	2.2789207	21	3 6.6	18.5
58380 1995 SG_{32}	15.3	X	262.36282	237.92793	176.55938	2.80810	0.0401604	0.18739431	3.0243481	21	8 11.5	19.6
58381 1995 SJ_{37}	14.9	X	256.74234	253.11130	178.03603	9.93280	0.0817435	0.18660840	3.0328336	21	8 18.6	19.3
58382 1995 SB_{42}	15.2	X	179.97261	335.90770	160.02695	4.45612	0.1516391	0.18272153	3.0756924	21	8 13.7	20.3
58383 1995 SV_{47}	15.4	X	239.41958	0.12395	43.74502	3.08247	0.1298182	0.18152060	3.0892433	21	6 20.7	20.1
58384 1995 SR_{51}	15.6	X	92.35191	230.98196	306.66191	0.36181	0.0798448	0.17895643	3.1186826	21	6 30.1	20.0
58385 1995 SC_{53}	15.5	X	124.21549	189.40248	176.65760	15.62343	0.1458098	0.20497669	2.8488291	21	1 9.8	19.8
58386 1995 SM_{53}	16.2	X	8.08410	150.41228	209.73506	4.01498	0.1430938	0.30479433	2.1867449	21	11 30.8	18.3
58387 1995 SZ_{78}	15.9	X	201.38152	75.95815	219.63033	1.24845	0.0346958	0.20433745	2.8547674	21	—	—
58388 1995 TK	15.0	X	1.81189	125.94844	168.91069	16.44936	0.1762573	0.22542263	2.6738541	21	7 25.8	17.8
58389 1995 TG_{2}	15.2	X	291.80100	113.89941	217.39343	2.55086	0.2002086	0.21749929	2.7384038	21	5 8.4	18.8
58390 1995 TA_{7}	15.7	X	109.49984	159.61512	351.31366	2.98260	0.1138335	0.17567725	3.1573716	21	6 21.4	20.4
58391 1995 UV_{3}	14.9	X	270.19135	305.13323	27.54002	7.55832	0.2245166	0.21609447	2.7502591	21	4 13.2	19.2
58392 1995 UT_{10}	15.2	X	158.54108	252.32474	359.34558	10.26461	0.0482326	0.19659141	2.9292720	21	12 11.9	19.8
58393 1995 UU_{12}	15.9	X	165.68894	84.70256	348.87979	0.61539	0.1645253	0.17508559	3.1644806	21	5 17.8	20.9
58394 1995 UX_{20}	15.0	X	144.85608	332.87997	216.37446	3.98332	0.2022276	0.22378952	2.6868467	21	9 18.9	19.6
58395 1995 UW_{24}	15.7	X	257.49167	4.69582	135.42193	2.77771	0.0766434	0.19011398	2.9954358	21	11 17.9	19.8
58396 1995 US_{43}	15.3	X	77.53518	169.78127	147.52038	3.02111	0.1305310	0.19245058	2.9711408	21	12 11.3	19.8
58397 1995 VA_{4}	14.4	X	306.90254	18.35646	62.72969	10.89267	0.1391458	0.18986494	2.9980546	21	11 6.4	17.9
58398 1995 VY_{4}	16.2	X	193.99939	103.74003	147.68620	3.93875	0.1203875	0.27492292	2.3424055	21	—	—
58399 1995 VA_{5}	16.4	X	315.57256	333.55331	94.72592	3.79052	0.1601689	0.30482362	2.1866048	21	12 3.1	17.6
58400 1995 VR_{12}	15.6	X	77.85592	250.14381	136.93909	3.00600	0.0907120	0.19942000	2.9015067	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58401 1995 VV_{13}	15.5	X	70.64685	149.78249	148.83281	4.11224	0.0852235	0.19029035	2.9935847	21	11 6.2	19.7
58402 1995 VH_{16}	16.2	X	289.03341	340.19555	234.62811	7.83961	0.1180070	0.23931205	2.5693682	21	—	—
58403 1995 WL_1	14.3	X	233.12547	44.69947	6.17300	4.99612	0.1442615	0.17843715	3.1247302	21	6 21.7	19.2
58404 1995 WJ_7	13.6	X	295.01600	128.19392	254.16778	12.69424	0.2270089	0.18188591	3.0851054	21	7 13.8	17.8
58405 1995 WN_9	14.8	X	242.41070	301.69256	37.89409	11.99456	0.1943494	0.21343078	2.7730945	21	4 2.1	19.4
58406 1995 WN_{18}	16.8	X	77.29781	211.68960	162.68184	2.75947	0.2135062	0.27460230	2.3442285	21	—	—
58407 1995 WT_{34}	16.8	X	191.08243	325.18587	220.18282	2.99503	0.0899162	0.29684946	2.2255902	21	11 9.7	19.8
58408 1995 XU	15.9	X	19.74644	223.76515	186.41268	1.95783	0.2124726	0.26983866	2.3717374	21	—	—
58409 1995 XH_4	16.8	X	263.47830	329.53723	134.68047	3.89227	0.0726890	0.30148466	2.2027197	21	10 30.3	19.2
58410 1995 YS	15.2	X	138.61232	42.17151	69.90580	25.48641	0.1768535	0.28823276	2.2697280	21	6 5.5	18.4
58411 1995 YA_2	15.1	X	237.37909	86.58665	237.94652	22.67099	0.2597935	0.28885090	2.2664888	21	2 15.7	19.6
58412 1995 YX_2	14.3	X	227.95141	54.74265	94.66254	11.35157	0.1784146	0.18275620	3.0753034	21	10 17.5	19.2
58413 1995 YC_8	16.6	X	223.24277	122.85964	216.11077	2.03936	0.1585628	0.28659456	2.2783692	21	3 5.1	20.2
58414 1995 YS_{12}	15.7	X	222.16672	6.51542	285.98779	6.30131	0.1269233	0.27343858	2.3508749	21	1 7.7	19.1
58415 1996 AM	15.3	X	17.28218	326.44064	94.39500	6.39453	0.1252983	0.30671506	2.1776061	21	—	—
58416 1996 BT_1	15.7	X	266.27781	84.56158	9.35228	4.18938	0.1383075	0.29641659	2.2277565	21	10 5.4	17.9
58417 Belzoni	15.8	X	202.65113	240.02627	16.54775	1.70670	0.0417761	0.30610620	2.1804927	21	—	—
58418 Luguhu	14.4	X	237.74999	14.97249	20.73738	28.37966	0.1762678	0.17469823	3.1691567	21	5 26.4	19.9
58419 1996 BD_4	14.5	X	149.53894	230.92197	274.59917	21.53436	0.2219429	0.28690093	2.2767468	21	7 27.9	18.5
58420 1996 BU_4	16.1	X	238.80460	79.85306	63.47675	3.21482	0.0997667	0.29741686	2.2227587	21	11 12.1	18.4
58421 1996 BG_5	14.7	X	359.94722	145.06654	102.07540	7.94720	0.0406758	0.16793062	3.2537396	21	5 21.6	19.1
58422 1996 BS_9	16.2	X	189.24154	140.01552	177.09199	2.79953	0.2065497	0.23500285	2.6006823	21	1 16.0	20.4
58423 1996 BW_{11}	15.4	X	128.76749	182.61552	88.88989	5.68721	0.1032732	0.29808409	2.2194406	21	12 23.3	18.3
58424 Jamesdunlop	15.3	X	119.91316	168.61085	317.07994	4.61372	0.1530085	0.24454837	2.5325588	21	6 2.9	19.0
58425 1996 DR_1	16.0	X	147.01287	107.39165	5.41115	5.81236	0.1074568	0.28378054	2.2934062	21	6 10.4	19.3
58426 1996 EA_2	15.5	X	118.47902	99.63948	182.27159	6.43039	0.2446902	0.29390978	2.2404058	21	12 27.3	19.4
58427 1996 EV_7	15.2	X	347.97063	334.84601	0.09401	3.66196	0.1052315	0.21045076	2.7992115	21	8 28.2	18.3
58428 1996 EC_8	16.7	X	318.16805	268.84846	38.44323	1.17860	0.1852048	0.28093833	2.3088482	21	5 10.6	18.9
58429 1996 FH	14.9	X	148.92618	230.97147	6.69446	4.73935	0.0733780	0.29446859	2.2375705	21	11 30.1	18.0
58430 1996 FZ_1	15.0	X	31.08570	97.23013	198.04507	4.94990	0.2111526	0.28619282	2.2805008	21	10 11.2	17.3
58431 1996 FV_4	15.0	X	185.30460	57.15957	356.45217	7.12240	0.2004551	0.28124139	2.3071893	21	5 3.9	18.9
58432 1996 FY_{17}	15.4	X	267.47054	108.53185	203.06969	6.06320	0.1286309	0.27301806	2.3532883	21	3 17.5	18.6
58433 1996 FN_{18}	15.1	X	121.80742	150.71356	23.90313	4.82330	0.0797975	0.28331876	2.2958975	21	8 5.9	18.1
58434 1996 FQ_{18}	15.7	X	43.93626	14.28240	243.35147	3.61177	0.1388126	0.28407503	2.2918209	21	8 21.5	18.1
58435 1996 GD_5	16.3	X	36.68668	219.43790	139.86844	3.70716	0.0520557	0.25593205	2.4568931	21	12 16.2	19.4
58436 1996 GM_5	15.5	X	115.76492	11.41645	132.46908	3.24822	0.1450348	0.28154586	2.3055256	21	6 21.7	18.6
58437 1996 GK_{10}	16.5	X	133.66315	327.48385	176.33657	2.35142	0.1839663	0.28315850	2.2967637	21	7 14.8	20.1
58438 1996 GR_{15}	16.5	X	88.35902	104.97212	112.12833	0.83763	0.1427123	0.28394510	2.2925200	21	8 30.1	19.4
58439 1996 GF_{20}	15.9	X	139.22825	315.83213	207.78799	3.34462	0.1234526	0.28420839	2.2911039	21	8 11.5	19.3
58440 1996 HV	15.2	X	149.45139	169.34121	61.01507	9.16127	0.1614885	0.21258038	2.7804853	21	11 11.3	19.8
58441 1996 HO_1	14.9	X	185.93209	135.11517	156.67681	4.96937	0.0682766	0.22382471	2.6865651	21	—	—
58442 1996 HR_9	16.5	X	66.63284	33.03714	206.87600	6.72529	0.2110814	0.28266549	2.2994335	21	9 10.9	19.5
58443 1996 HO_{12}	15.7	X	259.83394	110.06135	207.02976	8.17321	0.2465728	0.27073413	2.3665047	21	3 6.1	19.8
58444 1996 HR_{12}	16.5	X	62.61922	128.79695	79.11633	0.42726	0.1529872	0.27975932	2.3153306	21	7 11.9	18.9
58445 1996 HU_{16}	15.8	X	286.41297	17.82221	172.62985	0.96721	0.0938536	0.26312809	2.4118923	21	—	—
58446 1996 HN_{22}	14.8	X	84.17082	262.97245	51.36070	8.35397	0.2351067	0.21225994	2.7832829	21	12 27.0	19.4
58447 1996 HF_{24}	15.9	X	339.39441	58.38766	114.85718	3.01315	0.1137184	0.26717960	2.3874476	21	—	—
58448 1996 HO_{25}	15.6	X	282.71955	152.75727	215.44283	9.53138	0.1342487	0.27991528	2.3144705	21	6 23.3	18.6
58449 1996 HC_{26}	15.2	X	311.10860	201.66107	80.73390	3.32878	0.2171395	0.27296345	2.3536022	21	3 22.0	18.1
58450 1996 JB_1	14.8	X	61.17315	336.54168	229.95185	23.39041	0.1856572	0.27910454	2.3189503	21	7 6.3	17.9
58451 1996 JF_3	14.5	X	269.06450	305.95294	69.17265	7.29138	0.1469444	0.28044682	2.3115451	21	6 12.7	17.5
58452 1996 JG_3	16.2	X	233.41081	169.43327	125.18097	3.14664	0.0720755	0.26758343	2.3850450	21	1 23.2	19.6
58453 1996 JB_5	15.9	X	57.59311	6.83378	109.09443	7.88378	0.0766703	0.26898576	2.3767483	21	2 6.2	18.3
58454 1996 JD_9	15.3	X	356.76378	41.11933	164.20697	6.42280	0.0643226	0.27145654	2.3623043	21	3 4.9	18.0
58455 1996 JZ_{11}	16.3	X	13.43644	155.24679	108.50393	3.12686	0.2378001	0.27854928	2.3220311	21	7 11.1	17.4
58456 1996 JT_{14}	16.0	X	57.82097	4.11157	105.83626	3.28127	0.1250811	0.26905027	2.3763684	21	1 31.1	18.1
58457 1996 JX_{14}	15.2	X	175.86755	215.27171	158.54241	6.93678	0.1210153	0.26876026	2.3780776	21	3 5.3	18.7
58458 1996 KP	15.2	X	189.91731	225.85217	124.14657	10.38176	0.2342897	0.26454418	2.4032774	21	2 24.5	19.3
58459 1996 KK_8	15.8	X	63.75877	349.63793	224.42660	6.86081	0.2184487	0.28018709	2.3129734	21	7 31.9	18.6
58460 Le Mouelic	15.1	X	25.40325	256.91611	66.60786	21.47231	0.2286097	0.28364569	2.2941330	21	11 17.9	17.6
58461 1996 ML	15.2	X	236.42087	126.79813	33.01886	1.30066	0.0846712	0.21392581	2.7688149	21	11 18.1	19.0
58462 1996 NR	14.4	X	252.04423	109.21546	105.03692	13.28888	0.2648287	0.18004601	3.1060877	21	—	—
58463 1996 NT_1	15.2	X	53.95678	11.27309	305.78855	9.21922	0.1907585	0.24447499	2.5330655	21	11 29.9	18.9
58464 1996 NQ_2	16.2	X	265.99049	101.09951	195.48843	1.57718	0.1835896	0.26507479	2.4000692	21	2 21.4	19.9
58465 1996 NY_3	15.1	X	58.28497	212.62120	146.81503	9.76262	0.0656548	0.24768622	2.5111240	21	—	—
58466 Santoka	17.0	X	292.63087	146.64385	145.49615	2.75089	0.1978022	0.26874995	2.3781384	21	3 14.5	20.3
58467 1996 PW_2	15.7	X	235.76940	218.28315	85.27067	2.12144	0.2038933	0.26196077	2.4190520	21	2 3.9	19.8
58468 1996 QA	15.9	X	310.51302	110.25590	319.34686	19.50946	0.0583332	0.36275329	1.9471309	21	12 10.9	18.1
58469 1996 RC	15.9	X	200.22930	21.08541	163.94876	3.05780	0.0519865	0.28291507	2.2980810	21	11 23.2	18.7
58470 1996 RA_1	15.2	X	182.96050	17.32059	3.62802	6.44201	0.0980526	0.26137186	2.4226843	21	3 21.4	18.6
58471 1996 RS_3	15.4	X	315.31494	10.14449	6.27193	2.63261	0.0728964	0.23536787	2.5979928	21	9 4.8	18.3
58472 1996 RV_3	16.2	X	213.62712	317.79881	357.76763	10.41571	0.2674773	0.25960082	2.4336905	21	2 3.9	20.7
58473 1996 RN_7	12.9	X	198.80798	14.73299	175.14858	5.08785	0.0457443	0.08268116	5.2183317	21	10 30.6	20.0
58474 1996 RU_{10}	15.6	X	295.51658	200.99759	156.01091	5.75102	0.2552726	0.27177032	2.3604856	21	6 6.8	18.4
58475 1996 RE_{11}	13.1	X	230.95619	149.38544	9.67713	3.67943	0.0354353	0.08453933	5.1415829	21	10 29.3	20.0
58476 1996 RQ_{13}	14.4	X	102.66766	10.03456	338.87422	1.54304	0.1987147	0.16925665	3.2367232	21	—	—
58477 1996 RB_{26}	15.3	X	226.26060	92.80306	193.12293	4.98649	0.1860576	0.29690731	2.2253011	21	—	—
58478 1996 RC_{29}	12.5	X	354.45992	180.44211	205.44766	2.61616	0.0686873	0.08172352	5.2590182	21	10 23.5	18.9
58479 1996 RJ_{29}	12.5	X	65.19807	190.72565	140.76841	8.36608	0.0359322	0.08269248	5.2178553	21	11 16.5	19.4
58480 1996 RJ_{33}	12.3	X	6.81486	338.31201	51.39096	7.01361	0.0272471	0.08357740	5.1809589	21	11 10.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58481 1996 ST_4	16.0	X	72.01884	289.28629	22.69343	3.05759	0.1561010	0.24109716	2.5566699	21	12 9.4	19.8
58482 1996 TX_1	15.2	X	255.43792	202.47195	182.28154	10.78057	0.1464615	0.22864031	2.6487086	21	6 11.7	19.3
58483 1996 TB_2	15.4	X	306.29633	149.85881	161.90294	3.77130	0.0843956	0.22741951	2.6581791	21	5 20.5	18.7
58484 1996 TO_3	14.0	X	341.15685	23.66971	300.47310	9.06434	0.0657785	0.19345179	2.9608805	21	7 31.3	17.7
58485 1996 TH_{13}	15.6	X	355.09438	78.10205	259.00418	2.28947	0.2112446	0.23523995	2.5989345	21	9 19.6	17.8
58486 1996 TP_{13}	15.5	X	57.43592	128.78171	203.32670	4.75760	0.2415971	0.24217467	2.5490806	21	12 28.9	19.4
58487 1996 TQ_{29}	16.0	X	171.20506	159.53121	222.19732	0.86872	0.1730514	0.21742066	2.7390639	21	3 18.7	20.3
58488 1996 TV_{33}	15.2	X	228.93684	82.45430	3.34977	2.41243	0.0300793	0.18949087	3.0019988	21	8 12.6	19.5
58489 1996 TF_{34}	15.2	X	139.13584	77.30348	300.11687	0.85810	0.0636511	0.21289244	2.7777675	21	1 30.2	19.0
58490 1996 TZ_{35}	15.1	X	313.01831	167.85720	316.75668	1.07739	0.0410866	0.20341960	2.8633483	21	—	—
58491 1996 TG_{38}	15.8	X	19.85371	284.89581	28.80910	5.31345	0.2001368	0.27717611	2.3296939	21	10 15.9	17.8
58492 1996 TC_{44}	15.7	X	53.77580	86.20791	351.45549	4.10162	0.1554101	0.21017372	2.8016708	21	—	—
58493 1996 TJ_{52}	15.5	X	13.26907	272.96960	118.60556	1.51736	0.1912926	0.24281767	2.5445785	21	—	—
58494 1996 UF_1	13.9	X	218.21621	168.51467	219.74774	9.01382	0.0997107	0.18364178	3.0654087	21	5 13.0	18.6
58495 1996 US_1	14.4	X	246.17762	342.76248	9.77599	13.60048	0.1734263	0.22446358	2.6814650	21	4 15.8	18.8
58496 1996 UY_3	15.4	X	291.21858	97.74941	272.83896	5.95858	0.1083652	0.27087017	2.3657123	21	7 14.6	18.2
58497 1996 UK_4	16.2	X	336.02980	281.71643	43.74929	3.21128	0.1193654	0.31095145	2.1577824	21	7 27.9	17.7
58498 Octaviopaz	15.4	X	107.57474	158.07938	310.57705	3.89899	0.0721668	0.21835517	2.7312433	21	4 15.4	19.3
58499 Stüber	15.3	X	138.19150	54.28253	220.79652	12.87942	0.1435730	0.24242538	2.5473228	21	12 26.2	19.5
58500 1996 VU_1	15.0	X	353.29952	23.98359	344.62225	1.26589	0.0836778	0.19678654	2.9273352	21	10 18.4	18.6
58501 1996 VQ_2	15.6	X	20.43059	301.93540	46.44927	1.00076	0.2380506	0.27796539	2.3252816	21	12 12.8	17.9
58502 1996 VH_3	14.8	X	338.05156	2.46168	223.72455	3.00211	0.1088975	0.21724383	2.7405501	21	3 7.9	18.1
58503 1996 VJ_3	14.9	X	203.78161	31.38365	50.03649	11.73390	0.0399737	0.18584355	3.0411491	21	7 6.2	19.5
58504 1996 VZ_3	14.7	X	92.20306	53.47182	53.40623	15.58863	0.0770788	0.21497062	2.7598362	21	4 3.5	18.6
58505 1996 VU_{15}	15.3	X	352.12559	208.98312	50.85184	14.86685	0.1490245	0.22361163	2.6882715	21	5 14.1	18.1
58506 1996 VJ_{22}	14.9	X	165.10940	59.04517	16.50530	21.90756	0.0525699	0.22268198	2.6957483	21	5 4.6	19.1
58507 1996 VX_{32}	15.8	X	338.42762	222.68941	63.01560	2.48792	0.1711643	0.26586548	2.3953083	21	5 19.8	17.8
58508 1996 WA_2	14.8	X	222.85277	339.96624	63.17868	15.91776	0.1002891	0.22393394	2.6856913	21	6 2.6	18.9
58509 1996 XB_1	14.4	X	260.29091	322.37239	54.52435	10.32661	0.0955388	0.18386831	3.0628904	21	6 13.3	18.9
58510 1996 XH_2	15.0	X	344.63868	95.40371	249.05760	13.04410	0.1487902	0.23067030	2.6331459	21	8 29.0	18.0
58511 1996 XB_4	14.7	X	349.84180	1.07853	53.92220	4.03799	0.1745023	0.19862406	2.9092530	21	12 19.8	17.9
58512 1996 XR_4	15.0	X	34.62132	172.17001	31.89644	13.71064	0.0608857	0.22034847	2.7147469	21	5 7.6	18.3
58513 1996 XW_{11}	15.2	X	11.80855	338.12109	69.98229	3.06702	0.1055773	0.19641768	2.9309989	21	—	—
58514 1996 XK_{12}	14.7	X	187.36377	124.08789	99.05854	13.88303	0.0960817	0.19297200	2.9657863	21	12 7.9	19.3
58515 1996 XY_{12}	14.9	X	321.89716	338.78346	80.18351	11.84119	0.0747862	0.19577879	2.9373720	21	11 8.7	18.7
58516 1996 XT_{14}	16.3	X	205.57902	265.54083	83.43187	24.74027	0.0937595	0.37540488	1.9031343	21	2 26.1	19.3
58517 1997 AJ	14.9	X	130.28657	106.60364	306.87451	8.38806	0.2881017	0.21225016	2.7833684	21	3 26.7	19.6
58518 1997 AC_2	14.0	X	161.59461	181.48199	332.86821	7.82511	0.1805691	0.18044272	3.1015335	21	8 20.7	19.2
58519 1997 AU_2	14.5	X	204.44402	358.23625	101.44942	15.78096	0.1405327	0.18201940	3.0835969	21	7 24.7	19.5
58520 1997 AP_3	15.9	X	148.61107	254.29774	111.51026	7.86427	0.1140984	0.24717524	2.5145836	21	1 27.3	19.3
58521 1997 AC_8	14.2	X	358.46919	110.73889	293.35762	8.19323	0.0759380	0.19289063	2.9666203	21	12 9.5	18.1
58522 1997 AW_{19}	15.0	X	197.34172	196.84031	307.00312	6.90895	0.0790901	0.18397220	3.0617372	21	9 9.9	19.7
58523 1997 BU	14.7	X	159.63448	14.94242	140.94790	15.38851	0.1421840	0.18007826	3.1057168	21	8 20.2	19.7
58524 1997 BE_1	14.8	X	297.43531	336.26495	84.44411	0.71401	0.1513428	0.18879787	3.0093404	21	9 21.9	18.6
58525 1997 BX_3	15.1	X	151.74521	130.45017	27.55186	0.48929	0.1176761	0.18024684	3.1037801	21	8 14.3	19.8
58526 1997 BD_4	15.3	X	53.33572	284.61415	316.80264	1.97840	0.0608814	0.17959299	3.1113089	21	7 28.3	19.4
58527 1997 BF_4	15.4	X	228.63372	129.27901	24.85592	0.39560	0.1339393	0.18995692	2.9970867	21	10 23.8	19.7
58528 1997 BH_7	14.7	X	121.19427	7.45349	118.87560	2.32404	0.1369770	0.17414204	3.1759011	21	6 6.5	19.4
58529 1997 CX	15.6	X	75.37332	86.59477	109.38396	4.28326	0.1423185	0.29516399	2.2340547	21	7 12.2	18.1
58530 1997 CU_2	14.5	X	41.89253	81.37494	144.55726	10.57146	0.1619968	0.17360602	3.1824350	21	7 3.9	18.5
58531 1997 CS_4	14.0	X	162.30119	164.93510	320.38516	19.67168	0.1144005	0.17882513	3.1202089	21	7 18.9	19.0
58532 1997 CY_9	16.7	X	200.23637	241.53440	124.75448	4.64671	0.2488168	0.29465154	2.2366442	21	3 21.9	20.5
58533 1997 CD_{12}	15.1	X	131.71177	14.23232	145.36375	5.69678	0.0027787	0.21796361	2.7345134	21	7 16.2	18.7
58534 Logos	6.6	X	67.84142	334.45568	132.66281	2.90156	0.1168860	0.00326541	44.9963758	21	3 29.4	23.0
58535 Pattillo	14.9	X	217.94664	203.84681	199.44510	6.68640	0.1352489	0.17591162	3.1545666	21	5 29.9	19.9
58536 1997 EQ_8	15.6	X	247.18594	135.75068	186.25120	3.36736	0.0867765	0.21075440	2.7965223	21	3 20.9	19.7
58537 1997 EG_{14}	15.6	X	97.67304	189.16794	323.98728	3.78126	0.1057771	0.17209144	3.2010801	21	6 8.9	20.2
58538 1997 EN_{15}	15.1	X	355.62612	299.68720	14.90784	2.65882	0.0052882	0.17629661	3.1499724	21	8 10.0	19.5
58539 1997 ET_{16}	15.4	X	347.52293	139.72778	171.52250	1.29879	0.1649151	0.17417641	3.1754833	21	7 19.9	18.9
58540 1997 ET_{17}	15.0	X	273.19673	164.01323	251.26418	1.27204	0.1516045	0.30386605	2.1911962	21	8 16.6	17.2
58541 1997 EA_{18}	14.3	X	140.97926	150.46970	22.24594	1.57172	0.1092000	0.17751057	3.1355946	21	8 21.4	19.2
58542 1997 EQ_{22}	14.5	X	56.69760	139.07114	160.73585	0.74426	0.1238420	0.18082504	3.0971602	21	10 24.6	18.6
58543 1997 ET_{32}	15.0	X	260.05304	188.80239	188.11126	4.76998	0.1667925	0.17396687	3.1780327	21	6 5.8	19.8
58544 1997 EK_{42}	14.2	X	32.90912	272.40558	319.01291	5.02440	0.0863219	0.17315142	3.1880027	21	6 18.2	18.3
58545 1997 EG_{43}	14.7	X	1.82822	210.10786	170.34769	10.30779	0.0497519	0.18843177	3.0132370	21	11 14.4	18.8
58546 1997 FQ_2	14.7	X	87.92146	32.55161	188.93629	13.32875	0.0589757	0.17529009	3.1620190	21	8 13.4	19.4
58547 1997 FZ_2	14.5	X	46.08092	250.12730	339.35452	3.71438	0.1638049	0.17124159	3.2116623	21	7 16.7	18.4
58548 1997 GK_{12}	14.9	X	54.14334	58.12825	174.66297	4.25721	0.0640972	0.17279382	3.1923996	21	7 17.5	19.2
58549 1997 GM_{14}	15.9	X	287.40911	0.71215	250.22137	3.28583	0.1436862	0.24054613	2.5605728	21	1 24.6	19.7
58550 1997 GN_{19}	14.0	X	255.50407	175.66920	198.09590	22.46652	0.1289212	0.17136383	3.2101349	21	6 1.5	19.1
58551 1997 GP_{28}	15.2	X	74.01785	72.63431	128.93977	12.63145	0.0524786	0.17027680	3.2237824	21	7 3.2	19.8
58552 1997 GH_{32}	14.3	X	188.22201	236.53538	199.63738	1.09888	0.1740458	0.17226861	3.1988849	21	6 9.9	19.6
58553 1997 GK_{43}	14.2	X	125.94669	3.53641	204.63078	19.06778	0.1623234	0.17739672	3.1369360	21	9 18.6	19.4
58554 1997 HX	14.9	X	98.47152	80.99520	81.69304	0.78078	0.0844668	0.16889017	3.2414038	21	6 19.4	19.5
58555 1997 HA_3	16.3	X	74.21044	262.06656	203.05420	5.52640	0.1964140	0.28557514	2.2837880	21	2 26.7	18.1
58556 1997 HH_7	14.6	X	24.54812	52.07428	220.29675	4.41482	0.1440843	0.17128539	3.2111149	21	8 2.5	18.6
58557 1997 KE_3	15.3	X	58.00510	144.41257	220.93454	12.41740	0.2077982	0.22283219	2.6945367	21	—	—
58558 1997 LE_4	13.2	X	328.87234	95.74767	237.40409	21.16302	0.0847547	0.17040629	3.2221491	21	7 16.3	17.8
58559 1997 LT_5	15.5	X	309.68819	263.40501	197.67583	11.53345	0.1935132	0.26571748	2.3961976	21	12 26.3	17.6
58560 1997 LK_{11}	14.6	X	200.78039	95.20047	99.60923	3.10288	0.1053897	0.18317638	3.0705988	21	11 15.3	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58561 1997 ME_{9}	15.8	X	183.97982	24.21933	258.08383	1.93303	0.0293305	0.22354339	2.6888185	21	—	—
58562 1997 NG_{1}	15.3	X	271.64329	296.64965	190.46908	2.49485	0.0266224	0.21592665	2.7516840	21	11 30.9	19.0
58563 1997 NE_{5}	15.5	X	224.07237	324.03750	304.79705	3.80622	0.1659076	0.30999812	2.1622040	21	—	—
58564 1997 NQ_{6}	14.9	X	292.75771	77.35552	306.62270	4.36934	0.1226054	0.28681428	2.2772054	21	8 5.1	17.0
58565 1997 OC_{2}	16.2	X	317.15298	86.56764	248.59512	1.29397	0.0490187	0.28562161	2.2835403	21	7 13.1	18.7
58566 1997 PN_{3}	14.7	X	327.00468	313.10254	25.16811	2.38918	0.0644299	0.20198451	2.8768950	21	7 30.6	18.3
58567 1997 QB	15.4	X	170.53397	123.60155	264.20913	5.08413	0.0650850	0.23245095	2.6196815	21	3 14.8	19.3
58568 1997 QM_{1}	16.3	X	69.84809	46.79427	19.34973	6.85882	0.1097180	0.26461234	2.4028647	21	—	—
58569 Eboshiyamakouen	15.7	X	206.94831	30.11486	327.47044	5.22213	0.2416904	0.27278626	2.3546212	21	3 14.8	19.8
58570 1997 RD_{4}	15.6	X	23.77870	304.76371	17.35919	7.32647	0.1388453	0.28745968	2.2737956	21	10 25.3	17.8
58571 1997 RB_{5}	15.9	X	16.01888	265.19606	289.76567	2.43941	0.1931907	0.27528093	2.3403742	21	3 10.9	17.5
58572 Romanella	15.2	X	54.92524	280.53500	327.46302	6.86353	0.0693125	0.28595935	2.2817419	21	8 15.5	17.5
58573 Serpieri	16.4	X	188.55624	356.21109	16.21273	0.94965	0.2630531	0.27212102	2.3584571	21	3 20.9	20.4
58574 1997 RD_{8}	16.1	X	139.14804	28.17964	206.06904	1.37533	0.1704857	0.29467245	2.2365384	21	11 15.8	19.5
58575 1997 RK_{9}	15.0	X	14.98398	114.32637	345.15444	6.33877	0.1738942	0.25952452	2.4341674	21	—	—
58576 1997 RQ_{9}	16.1	X	247.05396	0.22698	315.14801	2.86599	0.0901100	0.27396973	2.3478355	21	3 3.5	19.4
58577 1997 SV	14.8	X	207.16963	344.12058	32.64780	7.13654	0.1205827	0.27076845	2.3663048	21	4 10.7	18.3
58578 Žídek	15.9	X	216.62771	301.15640	31.27716	2.50441	0.2385631	0.27197285	2.3593137	21	2 22.3	20.0
58579 Ehrenberg	16.8	X	130.53328	281.70507	18.54450	2.18108	0.1862177	0.29964933	2.2117049	21	—	—
58580 1997 SW_{2}	15.7	X	53.12515	304.80752	106.41667	7.16191	0.1210127	0.30085187	2.2058073	21	—	—
58581 1997 SB_{3}	15.5	X	313.38247	205.43055	199.21121	4.81273	0.1400845	0.28801022	2.2708971	21	10 15.4	17.1
58582 1997 SF_{3}	15.2	X	309.14254	23.07059	346.98878	6.86792	0.1292281	0.28596768	2.2816976	21	8 14.1	17.2
58583 1997 SV_{4}	15.1	X	89.53107	196.39956	344.98532	6.48576	0.1047609	0.27976270	2.3153119	21	7 5.9	18.0
58584 1997 SE_{11}	14.9	X	139.26740	283.74185	35.90256	4.19359	0.2434410	0.22023001	2.7157204	21	—	—
58585 1997 SX_{11}	16.1	X	265.05194	68.09333	309.37498	2.64850	0.1392833	0.27965693	2.3158957	21	6 12.1	19.2
58586 1997 SG_{23}	15.5	X	320.09807	236.36570	13.25544	4.38435	0.0971637	0.27121219	2.3637230	21	3 8.1	18.1
58587 1997 SK_{23}	16.6	X	93.54518	27.98060	352.18155	1.38111	0.1525224	0.25944455	2.4346676	21	—	—
58588 1997 SV_{23}	15.8	X	11.97280	79.89652	17.07707	2.68429	0.1473018	0.25699217	2.4501318	21	—	—
58589 1997 SF_{25}	14.9	X	124.25737	11.93592	19.54210	6.65767	0.1313078	0.26522004	2.3991929	21	1 31.8	18.0
58590 1997 SX_{30}	15.7	X	137.23400	0.32006	42.02769	7.37150	0.1017228	0.26822409	2.3812456	21	2 28.1	18.9
58591 1997 SV_{31}	15.8	X	67.79871	218.57016	104.98827	2.15262	0.1907836	0.29434519	2.2381958	21	—	—
58592 1997 SB_{35}	14.6	X	140.57727	203.21325	238.59550	8.49377	0.0068771	0.19272542	2.9683154	21	4 16.3	18.7
58593 1997 TD_{2}	16.1	X	299.12766	275.15754	211.34214	7.45438	0.1257932	0.25328507	2.4739808	21	—	—
58594 1997 TF_{9}	15.9	X	340.53832	229.28439	249.40335	2.22063	0.1321078	0.25601043	2.4563917	21	—	—
58595 Joepollock	15.6	X	86.48692	240.75080	43.01825	6.38704	0.1853826	0.29179827	2.2512008	21	11 29.1	19.0
58596 1997 TC_{10}	16.5	X	68.59965	8.62355	40.27600	2.16812	0.1671004	0.25822541	2.4423247	21	—	—
58597 1997 TH_{10}	15.8	X	216.78192	231.97844	221.03157	3.41789	0.1326678	0.23752605	2.5822318	21	7 28.6	19.7
58598 1997 TX_{11}	15.6	X	36.62282	110.86691	148.36737	3.80331	0.1495832	0.28348844	2.2949813	21	8 14.5	17.5
58599 1997 TK_{13}	15.6	X	329.51191	127.19008	175.68747	5.80313	0.0582465	0.19877736	2.9077570	21	6 16.1	19.4
58600 Iwamuroonsen	15.6	X	78.25097	149.32566	188.33324	1.82174	0.1813942	0.29641216	2.2277787	21	—	—
58601 1997 TW_{18}	15.3	X	14.19594	68.74882	81.89348	3.13489	0.1035246	0.26556589	2.3971094	21	1 12.1	17.8
58602 1997 TG_{25}	16.1	X	172.87999	58.50702	325.97805	0.66489	0.1919663	0.26902684	2.3765063	21	3 19.8	19.7
58603 1997 TM_{25}	15.8	X	359.44544	321.43651	35.72488	7.12922	0.2407760	0.28935826	2.2638386	21	11 20.5	17.5
58604 1997 TT_{26}	14.7	X	115.36598	34.70277	37.69538	8.89569	0.2860365	0.22281653	2.6946629	21	4 9.9	18.8
58605 Liutungsheng	15.0	X	188.40869	75.27229	305.75249	1.28249	0.2247909	0.26931236	2.3748264	21	3 29.7	18.9
58606 1997 TF_{27}	15.6	X	224.74819	295.55043	35.96282	7.13121	0.1173708	0.26923020	2.3753095	21	3 4.1	19.2
58607 Wenzel	15.7	X	78.38454	218.59151	65.65821	6.47534	0.0899406	0.29097573	2.2554413	21	11 12.4	18.4
58608 Geroldrichter	15.2	X	103.93709	317.98514	315.09793	6.05904	0.1504459	0.20991307	2.8039896	21	11 17.8	19.7
58609 1997 UZ_{1}	15.5	X	316.04722	267.12806	25.26904	7.32415	0.1196829	0.27620340	2.3351603	21	4 25.7	18.2
58610 1997 UN_{3}	15.2	X	242.90959	204.84317	227.24242	4.10985	0.2015312	0.23795567	2.5791227	21	7 22.1	19.2
58611 1997 UC_{4}	15.5	X	286.15028	224.65846	195.30597	3.94682	0.0487077	0.28997021	2.2606524	21	9 29.9	18.0
58612 1997 UA_{5}	15.4	X	251.27909	304.03631	36.82582	6.92441	0.2278713	0.27577318	2.3375883	21	4 2.2	19.1
58613 1997 UN_{7}	15.7	X	340.32522	258.81391	111.19949	3.04352	0.1220722	0.24521986	2.5279333	21	10 9.9	18.2
58614 1997 UO_{7}	15.4	X	53.78227	223.04235	170.75033	4.18906	0.1462311	0.25588816	2.4571741	21	—	—
58615 1997 UP_{13}	15.1	X	261.12786	117.04984	215.91524	3.88011	0.1419140	0.27431895	2.3458425	21	4 6.7	18.3
58616 1997 UT_{17}	15.0	X	195.64131	234.17241	72.99741	6.13369	0.1307735	0.17901434	3.1180099	21	1 16.6	20.0
58617 1997 UC_{21}	15.1	X	183.69617	353.40461	10.99741	7.02567	0.1303281	0.26850590	2.3795792	21	3 3.7	18.6
58618 1997 UU_{21}	15.4	X	185.69272	319.49492	60.98289	3.50901	0.1736007	0.26931548	2.3748080	21	3 27.3	19.1
58619 1997 UF_{22}	15.3	X	85.27226	255.26097	158.21221	3.59428	0.0857163	0.26131235	2.4230521	21	—	—
58620 1997 UG_{22}	15.1	X	150.08537	15.74431	60.00295	7.56219	0.0837071	0.27116505	2.3639969	21	4 25.0	18.4
58621 1997 UR_{23}	15.5	X	186.03347	351.17113	2.90783	2.59910	0.1827517	0.26733421	2.3865270	21	2 22.4	19.3
58622 Setoguchi	14.9	X	147.73448	240.88550	210.59127	13.81381	0.0927557	0.23019497	2.6367694	21	5 16.2	18.8
58623 1997 VZ_{1}	14.3	X	49.34838	141.41185	247.75028	6.17417	0.1371765	0.25357111	2.4721199	21	—	—
58624 1997 VC_{2}	14.3	X	167.73759	195.15199	235.36805	9.65556	0.0950989	0.18831370	3.0144964	21	5 12.6	18.9
58625 1997 VE_{2}	14.5	X	211.11318	299.22452	195.95852	5.03892	0.2635465	0.23915209	2.5705137	21	9 5.5	18.8
58626 1997 VF_{5}	14.3	X	153.45735	9.05524	27.29666	11.77635	0.1475797	0.26709990	2.3879225	21	3 17.2	17.8
58627 Rieko	15.4	X	281.35866	312.87035	60.51187	7.38164	0.1753972	0.28024741	2.3126415	21	6 22.4	18.3
58628 1997 VP_{7}	15.1	X	347.86688	180.01024	261.26150	6.08266	0.1228213	0.20905098	2.8116931	21	—	—
58629 1997 VL_{8}	15.7	X	200.97017	28.78927	21.57890	4.40603	0.2620036	0.23140563	2.6275648	21	5 16.4	20.3
58630 1997 WC	15.4	X	355.16191	105.73689	248.95783	6.13969	0.1455455	0.28519684	2.2858071	21	10 21.8	17.5
58631 1997 WE_{2}	14.7	X	229.63896	294.74796	74.84977	9.72842	0.2149034	0.27240387	2.3568243	21	4 22.6	18.6
58632 1997 WM_{2}	15.0	X	222.31324	43.23801	45.67985	2.54495	0.0440838	0.19370524	2.9582972	21	8 7.4	19.2
58633 1997 WY_{2}	15.2	X	61.22939	35.85172	37.78739	2.84459	0.0477169	0.21563130	2.7541961	21	—	—
58634 1997 WF_{3}	15.9	X	220.18071	6.60591	339.41202	0.86747	0.2046644	0.26848760	2.3796873	21	3 13.1	19.8
58635 1997 WQ_{6}	15.8	X	174.43048	86.38139	76.08622	6.53588	0.0941086	0.23979446	2.5659210	21	9 18.8	19.7
58636 1997 WQ_{13}	14.9	X	55.21057	344.99996	26.44947	10.06365	0.2030438	0.21286984	2.7779641	21	—	—
58637 1997 WT_{14}	15.1	X	215.27710	328.20418	40.10614	7.60166	0.1306453	0.27202598	2.3590065	21	4 8.5	18.6
58638 1997 WA_{17}	14.8	X	202.24623	213.31943	236.23456	12.06427	0.0633398	0.19587454	2.9364147	21	7 10.6	19.3
58639 1997 WZ_{17}	15.8	X	166.95666	100.45551	29.55051	11.48256	0.2357963	0.23439211	2.6051979	21	8 1.4	20.5
58640 1997 WH_{18}	15.2	X	235.83347	262.33772	19.56345	7.15497	0.0929026	0.26412462	2.4058218	21	1 11.5	18.8

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58641 1997 WX_{20}	14.4	X	218.25504	317.98180	64.12927	33.01035	0.1898682	0.23132496	2.6281756	21	5 7.6	19.0
58642 1997 WL_{24}	15.7	X	280.72059	234.01472	157.26937	0.60984	0.2181933	0.23994846	2.5648230	21	7 10.5	19.0
58643 1997 WO_{25}	16.2	X	349.93137	294.65848	211.41536	4.66322	0.1028733	0.29986196	2.2106592	21	—	—
58644 1997 WU_{31}	15.8	X	228.86383	206.97370	236.11485	3.19662	0.1992839	0.23688406	2.5868951	21	7 22.7	20.0
58645 1997 WT_{33}	14.9	X	58.28688	353.21650	37.39473	2.13599	0.1442780	0.25440890	2.4666897	21	—	—
58646 1997 WD_{35}	15.0	X	325.76982	281.27922	73.34056	13.94845	0.1529200	0.24045126	2.5612463	21	8 20.9	17.9
58647 1997 WW_{35}	15.1	X	112.60909	111.24124	297.64663	2.67285	0.1308889	0.26222426	2.4174313	21	2 5.9	17.8
58648 1997 WZ_{36}	15.8	X	184.96764	204.24331	177.23923	2.77268	0.1765859	0.26865298	2.3787106	21	3 26.7	19.7
58649 1997 WL_{38}	14.9	X	105.60185	110.68418	247.18374	4.01531	0.1247778	0.25638836	2.4539772	21	—	—
58650 1997 WR_{39}	15.6	X	344.76766	247.49526	88.91627	6.38812	0.2064910	0.28289151	2.2982086	21	9 5.1	17.0
58651 1997 WL_{42}	15.1	X	266.82476	38.50759	61.66434	5.66926	0.1876497	0.24213508	2.5493585	21	10 2.6	18.4
58652 1997 WD_{43}	14.6	X	154.99105	256.92627	233.61561	10.48298	0.3093584	0.23065703	2.6332469	21	7 18.9	19.6
58653 1997 WV_{45}	15.4	X	316.77057	311.51814	85.26864	4.17322	0.1735670	0.24301314	2.5432138	21	9 30.7	17.8
58654 1997 WA_{48}	15.8	X	237.36998	358.14761	47.04207	6.56555	0.2364942	0.23502904	2.6004891	21	6 9.4	20.1
58655 1997 WU_{49}	15.0	X	218.98006	297.94905	137.58438	2.25873	0.1863961	0.23495907	2.6010053	21	7 5.3	19.0
58656 1997 WT_{50}	15.3	X	183.45861	236.08263	97.10673	2.78467	0.1653792	0.26401157	2.4065085	21	1 24.6	19.1
58657 1997 WG_{54}	15.9	X	126.51759	310.16278	99.93109	2.33443	0.0924655	0.26467919	2.4024601	21	2 21.1	18.9
58658 1997 WY_{57}	15.8	X	103.42944	197.24884	173.21281	6.54601	0.1288232	0.25921744	2.4360895	21	—	—
58659 1997 WZ_{57}	15.4	X	175.22176	191.20390	178.31668	3.99437	0.2211192	0.26791158	2.3830971	21	3 4.9	19.3
58660 1997 XR	15.4	X	48.08745	95.05845	278.56686	6.64229	0.1458582	0.29095062	2.2555711	21	—	—
58661 1997 XU	14.9	X	310.44774	117.42690	288.97590	7.56136	0.0780406	0.24172917	2.5522116	21	10 4.5	18.0
58662 1997 XJ_{2}	15.1	X	273.99473	50.77615	342.65337	1.46292	0.1518046	0.23682232	2.5873447	21	7 15.2	18.3
58663 1997 XZ_{10}	15.0	X	290.05043	169.35857	289.64557	2.19798	0.1428972	0.24491319	2.5300432	21	11 10.8	17.8
58664 IYAMMIX	15.7	X	232.98956	139.24130	198.82289	4.12724	0.2450392	0.27005750	2.3704559	21	3 11.7	19.8
58665 1997 YO_{1}	15.8	X	99.31729	262.63378	152.08753	8.16187	0.2509595	0.21756796	2.7378275	21	2 23.1	19.4
58666 1997 YJ_{2}	14.4	X	132.67297	165.60409	287.52359	10.81711	0.0813767	0.22386149	2.6862708	21	4 24.7	18.5
58667 1997 YS_{2}	15.7	X	84.36155	312.77142	75.52077	6.83421	0.1184817	0.25584346	2.4574602	21	—	—
58668 1997 YJ_{3}	14.7	X	307.49244	269.92327	70.32330	7.49258	0.1665222	0.28124009	2.3071964	21	6 15.3	16.9
58669 1997 YF_{5}	15.9	X	74.27234	151.31812	235.05370	5.06086	0.1539281	0.29746052	2.2225412	21	—	—
58670 1997 YA_{6}	14.7	X	255.84571	15.86328	38.71402	3.82744	0.1708121	0.23464661	2.6033138	21	7 18.9	18.4
58671 Diplodocus	15.4	X	136.04954	127.41161	193.60177	6.57326	0.0999544	0.25481758	2.4640516	21	—	—
58672 Remigio	14.5	X	229.15466	144.29502	257.26526	12.20839	0.2462311	0.23245124	2.6196793	21	5 28.6	18.9
58673 1997 YA_{9}	14.7	X	266.99400	349.95958	87.15195	11.02833	0.1366090	0.24032905	2.5621145	21	9 12.4	18.2
58674 1997 YG_{12}	15.3	X	202.78313	266.97097	108.56026	3.51025	0.2319712	0.22572791	2.6714428	21	4 8.9	19.9
58675 1997 YD_{14}	14.1	X	98.24650	147.77592	308.69878	7.72475	0.2101981	0.17738637	3.1370580	21	4 10.2	18.7
58676 1997 YN_{16}	14.9	X	6.85417	22.71243	130.61459	3.05635	0.1627910	0.25621267	2.4550988	21	—	—
58677 1997 YJ_{17}	16.0	X	280.88669	271.68052	286.00674	1.31189	0.0411772	0.29415284	2.2391715	21	—	—
58678 1997 YE_{18}	13.8	X	300.30771	2.15343	312.98246	9.24884	0.0353164	0.18368309	3.0649490	21	5 23.6	18.2
58679 Brenig	14.9	X	225.85945	67.67004	12.78093	4.05288	0.2790710	0.23441096	2.6050582	21	7 12.3	19.4
58680 1998 AO_{5}	14.3	X	52.65704	343.60326	326.07156	7.87579	0.1214490	0.23505457	2.6003008	21	11 5.1	17.9
58681 1998 AJ_{7}	14.9	X	253.52708	88.27250	319.65690	3.53949	0.1730622	0.23399457	2.6081478	21	7 6.6	18.6
58682 Alenašolcová	15.1	X	133.70263	60.31777	74.65459	2.00736	0.1615805	0.22768212	2.6561347	21	7 1.7	19.2
58683 1998 AJ_{10}	15.4	X	28.81185	257.61569	99.67307	4.51094	0.2842956	0.29148917	2.2527920	21	—	—
58684 1998 AA_{11}	15.9	X	102.14185	324.62859	122.29669	3.48313	0.1599744	0.26174608	2.4203747	21	3 21.8	18.8
58685 1998 BP	15.9	X	241.85203	96.85661	27.69473	4.89539	0.0983949	0.27994276	2.3143190	21	10 18.2	18.7
58686 1998 BB_{1}	13.8	X	28.82133	345.27558	324.52003	13.55766	0.1334861	0.23366139	2.6106265	21	9 29.9	17.1
58687 1998 BJ_{3}	15.9	X	67.72582	340.55100	301.84757	2.74370	0.2281071	0.27661616	2.3328368	21	11 10.7	19.3
58688 1998 BJ_{4}	13.7	X	81.91865	140.57390	314.53729	10.54479	0.2795166	0.21718545	2.7410412	21	3 22.7	17.2
58689 1998 BY_{9}	15.5	X	158.04649	320.74715	103.30287	6.77218	0.0955993	0.22755612	2.6571151	21	4 24.7	19.5
58690 1998 BP_{10}	16.0	X	255.37785	303.36810	120.74792	6.74655	0.1693867	0.27646383	2.3336936	21	8 1.0	19.1
58691 1998 BG_{14}	15.4	X	298.20981	319.20611	124.96038	4.83037	0.0675580	0.24118781	2.5560292	21	11 13.8	18.4
58692 1998 BF_{17}	15.4	X	357.08211	222.83111	117.16514	2.78013	0.1153785	0.23305824	2.6151288	21	9 24.5	18.1
58693 1998 BG_{25}	14.5	X	358.84076	136.48145	120.65478	7.66316	0.0867056	0.22243130	2.6977733	21	5 28.5	17.7
58694 1998 BQ_{25}	15.0	X	304.48225	256.42207	84.09179	14.53090	0.1027664	0.23115201	2.6294865	21	6 22.8	18.3
58695 1998 BJ_{26}	15.7	X	144.93284	107.19135	26.15093	1.64504	0.1255742	0.26598074	2.3946163	21	7 8.9	19.1
58696 1998 BW_{26}	15.0	X	270.49988	288.32482	144.79862	3.45818	0.1232177	0.24111891	2.5565161	21	9 8.7	18.2
58697 1998 BL_{27}	15.3	X	352.67328	114.64470	348.02164	1.22451	0.1024571	0.20665701	2.8333657	21	—	—
58698 1998 BE_{31}	16.0	X	54.37367	158.09929	161.71895	0.77169	0.0250280	0.23886482	2.5725743	21	11 10.4	19.4
58699 1998 BK_{42}	14.9	X	357.74763	352.92821	84.07965	15.12997	0.1606920	0.25246045	2.4793651	21	—	—
58700 1998 BQ_{42}	15.8	X	157.03399	6.81394	150.53355	2.47716	0.1476908	0.27313968	2.3525897	21	8 23.4	19.5
58701 1998 BR_{42}	13.7	X	73.32646	201.93622	296.98029	21.07052	0.0381066	0.17822033	3.1272641	21	3 29.3	18.5
58702 1998 BX_{43}	14.9	X	169.97957	43.92516	66.53994	4.90872	0.1796407	0.22901561	2.6458141	21	7 5.8	19.2
58703 1998 BH_{44}	14.6	X	103.59703	247.29700	113.31987	3.07424	0.2476788	0.25504260	2.4626020	21	—	—
58704 1998 BA_{46}	14.3	X	88.08557	173.67726	283.41516	0.40411	0.1624611	0.17577060	3.1562536	21	3 26.6	18.7
58705 1998 BN_{47}	15.3	X	70.16830	42.64571	114.82682	9.70980	0.2155385	0.22031804	2.7149969	21	5 26.1	18.7
58706 1998 CD	15.9	X	130.86819	74.68887	63.26580	5.09819	0.1027790	0.26697853	2.3886462	21	6 26.8	19.1
58707 Kyoshi	14.7	X	69.59956	308.98656	325.82884	12.87965	0.0375921	0.23466965	2.6031434	21	9 27.1	18.3
58708 1998 CX_{1}	16.1	X	223.98617	91.18055	53.49958	5.40464	0.0725914	0.28024748	2.3126411	21	10 27.0	18.9
58709 Zenocolò	14.4	X	91.64954	218.25238	191.47006	4.61510	0.1202037	0.16942528	3.2345752	21	1 26.6	18.7
58710 1998 CH_{3}	14.7	X	145.06858	161.86849	354.80061	3.38712	0.1064865	0.18503627	3.0499880	21	8 6.3	19.3
58711 1998 CM_{3}	14.2	X	18.86641	129.79909	149.64684	5.73222	0.0704905	0.22659143	2.6646514	21	7 30.6	17.4
58712 1998 CX_{4}	14.3	X	50.55845	155.03996	323.49571	7.51857	0.0339990	0.25519831	2.4616002	21	1 30.8	17.2
58713 1998 DS	16.0	X	78.68274	186.15563	74.36707	3.74946	0.1498009	0.27405002	2.3473769	21	10 17.9	19.1
58714 1998 DS_{2}	15.5	X	195.13570	308.11081	98.82094	7.55205	0.1992433	0.27315527	2.3525001	21	5 9.4	19.4
58715 1998 DK_{3}	15.3	X	277.15780	273.74198	176.33608	4.33454	0.2569684	0.23973833	2.5663215	21	9 19.0	18.4
58716 1998 DU_{4}	15.1	X	103.54160	322.74994	149.27752	10.53243	0.2428807	0.22066076	2.7121850	21	5 14.1	19.2
58717 1998 DE_{8}	15.3	X	57.25097	128.87387	34.15899	3.59552	0.1295413	0.21957857	2.7210890	21	4 26.5	18.2
58718 1998 DN_{9}	14.3	X	17.67054	161.41805	55.93098	10.45247	0.1251549	0.21768291	2.7368637	21	5 4.3	17.3
58719 1998 DY_{10}	14.7	X	169.94015	342.85380	26.01423	5.23341	0.1710164	0.21705565	2.7421338	21	3 4.4	19.1
58720 1998 DD_{11}	14.8	X	30.66418	81.64257	144.58600	9.55979	0.1769982	0.22058206	2.7128301	21	6 15.7	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58721 1998 DX_{14}	13.0	X	111.74210	117.60709	359.78079	14.61466	0.0979639	0.17838584	3.1253294	21	5 5.2	17.8
58722 1998 DN_{17}	14.6	X	128.21058	256.35496	163.51111	11.89030	0.1956963	0.21903599	2.7255808	21	3 28.5	18.7
58723 1998 DU_{17}	15.9	X	221.07020	350.81213	47.74300	3.33170	0.2418377	0.22393147	2.6857111	21	5 18.9	20.4
58724 1998 DY_{17}	15.3	X	312.90628	288.76748	97.49653	3.26553	0.0913956	0.18841144	3.0134538	21	9 9.1	19.1
58725 1998 DZ_{18}	15.7	X	350.99520	177.81454	128.38320	3.97706	0.2716963	0.22550714	2.6731860	21	7 17.6	17.3
58726 1998 DG_{19}	14.8	X	349.84430	53.15392	115.97600	3.00771	0.0321083	0.21130833	2.7916329	21	1 21.8	18.5
58727 1998 DA_{21}	16.1	X	169.94515	315.01719	130.46502	1.76962	0.2526862	0.26811159	2.3819117	21	6 5.2	20.0
58728 1998 DR_{23}	15.4	X	210.00635	290.36553	225.89494	1.43921	0.0466059	0.19240480	2.9716121	21	10 15.2	19.6
58729 1998 DJ_{24}	14.7	X	320.41665	275.60479	149.72538	13.71854	0.1613919	0.24014299	2.5634377	21	11 22.5	17.5
58730 1998 DR_{28}	14.7	X	93.42192	349.34420	101.41713	3.33069	0.1945207	0.21490057	2.7604359	21	3 27.2	18.2
58731 1998 DE_{32}	15.1	X	319.89936	122.83223	174.13564	4.67643	0.0678573	0.22199501	2.7013067	21	5 23.1	18.5
58732 1998 DL_{34}	14.2	X	23.65783	141.13154	357.07493	11.96642	0.0831391	0.21100468	2.7943104	21	1 30.6	17.7
58733 1998 DH_{35}	14.2	X	244.01181	160.26993	356.37226	13.74515	0.0918518	0.23872337	2.5735904	21	11 22.8	17.9
58734 1998 EP	15.9	X	350.84170	190.59756	191.25160	5.32767	0.1406122	0.27899139	2.3195773	21	11 25.4	18.0
58735 1998 EP_{2}	15.3	X	53.50503	174.14811	1.98404	2.28666	0.1492562	0.25840328	2.4412038	21	5 6.7	17.5
58736 1998 EO_{6}	14.4	X	0.72222	173.63959	182.59283	4.11077	0.0903558	0.23358802	2.6111731	21	10 21.4	17.4
58737 1998 EA_{10}	14.4	X	189.74800	39.96431	7.17177	13.05988	0.1744327	0.22330000	2.6907720	21	4 30.9	19.0
58738 1998 EX_{10}	16.3	X	143.16941	160.32815	17.83762	5.61400	0.1100096	0.27105822	2.3646180	21	9 6.4	19.7
58739 1998 EZ_{11}	16.0	X	36.73826	128.30226	108.20821	4.83208	0.1574326	0.26399340	2.4066190	21	7 9.8	18.2
58740 1998 ES_{12}	14.7	X	23.93150	136.61234	52.62493	3.03243	0.1350589	0.17300458	3.1898063	21	4 12.4	18.4
58741 1998 EZ_{12}	13.9	X	312.33505	252.37861	12.43568	9.36268	0.0937947	0.21532976	2.7567667	21	3 26.4	17.6
58742 1998 EG_{13}	15.9	X	29.00724	102.77030	35.75743	4.59103	0.1505213	0.21189454	2.7864817	21	2 5.1	18.8
58743 1998 EJ_{13}	16.1	X	79.80913	174.72638	42.53574	2.82109	0.1307010	0.26696649	2.3887180	21	8 17.4	19.0
58744 1998 EN_{13}	14.6	X	22.74970	51.63435	125.77123	6.20329	0.0927502	0.17185241	3.2040477	21	3 27.0	18.6
58745 1998 FM_{3}	15.3	X	74.41113	0.46951	2.49855	1.65808	0.0718744	0.20208379	2.8759526	21	—	—
58746 1998 FS_{3}	15.6	X	253.27517	167.52414	47.35920	1.22225	0.0747091	0.20442759	2.8539282	21	—	—
58747 1998 FJ_{5}	15.7	X	338.79433	305.76317	181.01117	23.63819	0.0321249	0.37126766	1.9172466	21	—	—
58748 1998 FB_{9}	14.8	X	222.29219	2.18672	89.76173	3.62114	0.1337915	0.18368694	3.0649063	21	8 2.3	19.6
58749 1998 FG_{10}	14.3	X	52.80536	189.10983	291.53277	2.34288	0.0442305	0.21089701	2.7952615	21	2 14.1	18.0
58750 1998 FY_{10}	14.9	X	338.10136	292.10254	29.42306	2.21422	0.0635447	0.22660861	2.6645167	21	7 25.5	18.0
58751 1998 FZ_{11}	15.6	X	301.09702	4.13411	61.52387	4.30252	0.1182505	0.27706567	2.3303129	21	10 24.9	17.7
58752 1998 FF_{12}	15.5	X	342.98439	61.93967	29.34882	8.01984	0.1027763	0.24320540	2.5418734	21	—	—
58753 1998 FO_{12}	15.7	X	322.58044	355.76246	158.01835	2.82861	0.0720221	0.20511360	2.8475613	21	—	—
58754 1998 FT_{12}	15.4	X	350.47259	295.12023	106.54732	8.62374	0.1985636	0.29036997	2.2585771	21	—	—
58755 1998 FS_{14}	14.5	X	88.30618	281.29811	350.27697	9.96614	0.0846670	0.18916702	3.0054241	21	10 19.5	19.0
58756 1998 FR_{15}	14.9	X	183.56328	263.93077	202.05130	10.57657	0.1348717	0.18312184	3.0712084	21	7 10.3	20.0
58757 1998 FF_{18}	14.5	X	151.65196	302.28842	162.31805	5.20339	0.1742588	0.22428947	2.6828525	21	6 11.7	18.9
58758 1998 FO_{18}	15.2	X	169.88588	243.15619	196.15795	1.47720	0.1698866	0.26599535	2.3945286	21	5 25.7	19.0
58759 1998 FZ_{18}	14.0	X	255.04709	110.67223	321.09025	7.71530	0.2347241	0.19065711	2.9897443	21	7 31.2	18.6
58760 1998 FB_{21}	14.6	X	175.26247	20.48060	152.82621	5.05562	0.1236205	0.23266204	2.6180968	21	9 29.8	18.7
58761 1998 FH_{24}	14.8	X	339.95720	201.31498	344.57266	7.88350	0.1680149	0.21067813	2.7971971	21	1 13.2	18.4
58762 1998 FJ_{24}	13.6	X	333.78817	30.25288	341.64494	14.87388	0.1337495	0.23314896	2.6144503	21	9 21.9	16.5
58763 1998 FR_{25}	14.9	X	95.75966	218.58728	299.05972	2.50053	0.0593145	0.22160886	2.7044438	21	6 3.7	18.6
58764 1998 FE_{27}	15.5	X	112.72689	309.20787	196.60077	4.12683	0.1940125	0.22292533	2.6937861	21	6 27.0	19.6
58765 1998 FZ_{33}	14.0	X	262.09432	168.67639	353.98579	14.07735	0.0777148	0.24099864	2.5573666	21	—	—
58766 1998 FS_{34}	15.0	X	73.80298	225.62756	295.49278	3.03697	0.1281245	0.17617726	3.1513949	21	5 22.1	19.2
58767 1998 FQ_{39}	14.9	X	132.95614	317.54520	135.04806	3.50713	0.1326558	0.21947646	2.7219329	21	5 6.2	18.9
58768 1998 FQ_{40}	16.1	X	122.02820	78.08209	185.32347	6.54190	0.1009535	0.27704891	2.3304069	21	12 3.1	19.5
58769 1998 FS_{45}	14.2	X	206.81281	281.30842	76.55668	3.62325	0.1255675	0.21433199	2.7653157	21	3 23.8	18.6
58770 1998 FM_{49}	14.4	X	166.69124	110.22014	185.84723	12.49936	0.1987699	0.24198891	2.5503850	21	—	—
58771 1998 FP_{49}	14.5	X	59.67350	173.19521	197.51061	1.77454	0.0555265	0.19848627	2.9105992	21	—	—
58772 1998 FB_{56}	14.8	X	312.00606	74.55582	140.60353	4.64905	0.0386996	0.20930969	2.8093757	21	1 29.9	18.6
58773 1998 FE_{57}	14.7	X	3.29375	279.27495	175.85897	2.18206	0.0133329	0.20151535	2.8813585	21	—	—
58774 1998 FA_{58}	13.8	X	89.09532	110.53099	193.26962	10.37628	0.1054628	0.19253660	2.9702557	21	12 5.3	18.3
58775 1998 FR_{59}	14.6	X	113.97947	69.55428	48.67374	5.21756	0.0574153	0.21780120	2.7358726	21	5 6.3	18.1
58776 1998 FG_{60}	14.6	X	112.98145	252.66478	16.01822	9.02360	0.0623623	0.19171935	2.9786907	21	11 11.7	19.1
58777 1998 FN_{65}	14.7	X	177.50014	52.95859	208.56228	10.14295	0.0987378	0.19741101	2.9211586	21	—	—
58778 1998 FS_{66}	14.7	X	85.72244	298.95037	184.02994	12.40428	0.1297487	0.21549287	2.7553754	21	4 17.9	18.2
58779 1998 FA_{70}	15.5	X	74.26634	255.49344	62.71018	4.07659	0.2672958	0.27411764	2.3469908	21	—	—
58780 1998 FL_{70}	15.3	X	303.65196	127.28142	28.00699	5.30192	0.1069196	0.28632465	2.2798008	21	—	—
58781 1998 FX_{72}	14.3	X	233.64776	232.62177	201.40739	9.01689	0.0401695	0.18116968	3.0932312	21	7 29.5	18.9
58782 1998 FY_{72}	15.3	X	16.25149	7.68123	109.62303	1.06748	0.0748819	0.24653857	2.5189109	21	—	—
58783 1998 FN_{74}	15.3	X	336.15766	6.72073	355.82022	2.52909	0.1701281	0.23334925	2.6129540	21	9 15.7	17.5
58784 1998 FJ_{75}	14.0	X	262.15489	77.45349	23.93804	10.57269	0.0670997	0.18988550	2.9978382	21	10 8.3	18.1
58785 1998 FT_{77}	14.1	X	136.02288	27.07256	43.03655	9.70304	0.1418001	0.21479539	2.7613370	21	4 13.1	18.3
58786 1998 FD_{78}	16.3	X	349.65426	123.84775	159.55669	8.49061	0.2174666	0.30280619	2.1963062	21	6 4.5	17.8
58787 1998 FW_{78}	14.1	X	3.44274	324.21012	50.46479	11.97584	0.1471201	0.19033479	2.9931186	21	11 15.4	17.5
58788 1998 FW_{79}	14.4	X	164.67943	31.05967	123.41792	4.52422	0.0517957	0.18338212	3.0683017	21	8 22.5	19.0
58789 1998 FK_{80}	13.9	X	70.95279	25.60908	21.26269	15.49611	0.1356207	0.20536348	2.8452510	21	—	—
58790 1998 FN_{81}	14.8	X	45.00393	109.69290	75.52931	3.74986	0.1164453	0.21888521	2.7268324	21	5 6.5	17.8
58791 1998 FH_{82}	14.1	X	156.93690	48.33128	32.08143	12.64640	0.1555577	0.22254129	2.6968843	21	5 13.5	18.5
58792 1998 FF_{84}	14.9	X	58.01875	38.30460	138.89018	9.55413	0.2093866	0.21913685	2.7247444	21	6 1.7	18.1
58793 1998 FJ_{84}	14.7	X	9.68140	358.50569	127.75939	9.18001	0.1696661	0.20921281	2.8102429	21	—	—
58794 1998 FW_{84}	13.6	X	147.54713	65.09446	25.07319	15.15350	0.0691859	0.17881365	3.1203425	21	5 10.8	18.3
58795 1998 FE_{87}	14.7	X	33.87855	350.47978	122.30974	9.39327	0.2453440	0.21118118	2.7927533	21	1 6.1	16.8
58796 1998 FO_{94}	14.7	X	78.73531	39.28403	62.57975	6.02391	0.1504816	0.17170127	3.2059277	21	3 22.1	18.9
58797 1998 FU_{98}	13.7	X	52.63431	86.87730	315.31811	10.04998	0.1400535	0.20302556	2.8670520	21	—	—
58798 1998 FU_{100}	14.0	X	136.12345	340.47767	240.53249	9.29773	0.0599336	0.18961708	3.0006666	21	10 9.3	18.6
58799 1998 FG_{103}	15.5	X	354.15898	314.10657	223.80674	5.99589	0.0897884	0.25261242	2.4783706	21	1 20.9	18.5
58800 1998 FF_{104}	14.5	X	62.61122	280.62336	215.92359	12.45724	0.1654613	0.21495456	2.7599737	21	4 2.2	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58801 1998 FP_{105}	14.7	X	248.23010	261.14420	214.93880	9.15810	0.0494346	0.19093905	2.9868005	21	10 9.6	18.9
58802 1998 FW_{106}	14.3	X	75.47444	275.93567	212.09529	13.10639	0.1535769	0.17275594	3.1928662	21	4 16.2	18.4
58803 1998 FX_{109}	15.1	X	325.92346	263.56515	206.62733	21.54663	0.1277893	0.24240014	2.5474997	21	—	—
58804 1998 FM_{110}	14.3	X	28.50056	264.17905	230.55710	14.29337	0.2410036	0.21116139	2.7929278	21	1 20.5	17.1
58805 1998 FN_{113}	14.5	X	163.88469	284.22610	229.50373	10.39505	0.0499620	0.18398389	3.0616075	21	8 15.5	19.2
58806 1998 FF_{117}	14.6	X	344.93243	63.01332	211.24755	11.69184	0.1255761	0.21781292	2.7357745	21	5 25.5	17.8
58807 1998 FN_{127}	15.0	X	244.32657	306.95845	121.65389	4.43902	0.1217537	0.22927690	2.6438035	21	7 29.5	18.7
58808 1998 FV_{127}	14.5	X	336.12997	176.46003	46.54292	5.90379	0.0876403	0.17181633	3.2044961	21	3 15.4	18.8
58809 1998 FX_{130}	15.1	X	12.15715	124.03440	43.67326	4.34190	0.0375527	0.21061279	2.7977757	21	2 20.7	18.7
58810 1998 FR_{136}	15.2	X	2.28094	216.89006	208.23714	7.08096	0.1191744	0.24184445	2.5514005	21	—	—
58811 1998 FQ_{145}	14.9	X	65.34063	359.16319	153.02259	12.89677	0.1650114	0.21730935	2.7399993	21	5 4.9	18.4
58812 1998 GM	15.5	X	311.20195	132.42235	352.89563	4.84628	0.1911393	0.24522758	2.5278803	21	—	—
58813 1998 GP_{4}	13.8	X	355.12162	170.18830	31.81076	23.04623	0.0901328	0.17064445	3.2191504	21	3 24.1	18.2
58814 1998 GQ_{6}	13.7	X	240.17993	302.46761	79.97870	16.74573	0.0408454	0.17865067	3.1222400	21	6 4.7	18.3
58815 1998 GR_{8}	15.4	X	318.55649	151.97420	81.59224	14.52089	0.1456797	0.21017064	2.8016982	21	2 20.6	19.4
58816 1998 GU_{10}	14.8	X	345.68390	97.05035	142.27099	9.61654	0.1096748	0.21648588	2.7469431	21	4 12.1	18.1
58817 1998 GJ_{11}	15.3	X	236.87405	116.63227	357.74354	30.91870	0.2152108	0.23508075	2.6001077	21	9 13.3	19.3
58818 1998 HE_{2}	13.9	X	217.90288	45.00250	62.32639	10.42057	0.0478917	0.18281049	3.0746945	21	8 28.9	18.5
58819 1998 HF_{3}	14.0	X	68.49874	111.34158	193.50318	12.97763	0.1672881	0.18585311	3.0410449	21	11 21.4	18.6
58820 1998 HN_{5}	15.6	X	321.41385	84.99963	43.64971	13.95637	0.1078619	0.24261424	2.5460007	21	—	—
58821 1998 HZ_{5}	14.9	X	130.87235	348.02281	160.27100	5.63474	0.1458720	0.17932128	3.1144510	21	7 13.6	19.9
58822 1998 HO_{7}	16.5	X	98.06815	215.38121	48.48430	24.36464	0.0420128	0.39916854	1.8268316	21	11 19.4	18.2
58823 1998 HR_{8}	16.2	X	253.24812	329.96677	150.42119	4.81139	0.2202329	0.23506899	2.6001945	21	10 4.8	19.7
58824 1998 HY_{10}	13.9	X	73.05578	284.68573	48.17756	11.27172	0.1130884	0.19232498	2.9724342	21	12 21.9	18.4
58825 1998 HE_{11}	13.8	X	260.20781	312.06208	44.09802	18.68134	0.1865623	0.17480528	3.1678627	21	5 8.0	18.6
58826 1998 HC_{15}	14.4	X	42.40882	83.31337	35.68891	8.81914	0.1759277	0.21056426	2.7982055	21	2 7.1	17.4
58827 1998 HH_{15}	13.9	X	70.84540	191.10350	67.28566	10.79017	0.0140338	0.18188775	3.0850847	21	9 10.6	18.4
58828 1998 HM_{15}	15.1	X	140.51773	261.11386	71.27422	10.72983	0.0972176	0.19747831	2.9204948	21	—	—
58829 1998 HF_{19}	14.9	X	204.76450	278.44883	196.98103	11.89110	0.1781471	0.18683556	3.0303749	21	8 7.7	20.1
58830 1998 HE_{23}	15.1	X	156.21637	108.00162	178.97132	11.04890	0.3409382	0.23722658	2.5844045	21	—	—
58831 1998 HN_{30}	14.9	X	25.18901	139.93967	101.93164	3.10988	0.0193252	0.22030896	2.7150715	21	6 14.6	18.5
58832 1998 HU_{31}	15.7	X	339.09310	247.08939	221.87702	20.92746	0.0922336	0.36802696	1.9284851	21	—	—
58833 1998 HM_{33}	13.8	X	44.36524	339.52014	4.14803	11.91255	0.0671171	0.19146518	2.9813263	21	11 21.9	18.1
58834 1998 HN_{37}	14.6	X	172.11635	93.25021	12.78896	12.97880	0.1373092	0.22300958	2.6931076	21	7 2.5	19.1
58835 1998 HG_{39}	13.8	X	211.27763	124.43684	25.17924	15.57734	0.0295510	0.23115394	2.6294718	21	10 15.9	17.2
58836 1998 HA_{43}	15.0	X	320.24198	69.32124	182.84529	9.12955	0.1069044	0.21190850	2.7863594	21	3 18.2	18.4
58837 1998 HQ_{46}	13.8	X	149.10368	28.84055	190.29663	10.14627	0.0469354	0.18933962	3.0035973	21	10 24.8	18.2
58838 1998 HO_{50}	14.6	X	166.32456	62.41915	112.42110	11.19273	0.0447525	0.18407681	3.0605771	21	9 22.8	19.3
58839 1998 HZ_{50}	14.7	X	51.93386	255.11481	225.64401	6.74287	0.1777846	0.21023535	2.8011232	21	2 21.2	17.8
58840 1998 HT_{53}	15.4	X	215.15599	67.22455	49.72163	6.61412	0.0640967	0.27065389	2.3669724	21	9 10.1	18.6
58841 1998 HT_{54}	13.6	X	312.50716	104.69239	13.25490	13.01938	0.1268477	0.24050891	2.5608370	21	—	—
58842 1998 HP_{55}	15.5	X	290.09671	323.37959	179.91202	3.40583	0.0815654	0.24024033	2.5627453	21	—	—
58843 1998 HB_{59}	14.9	X	190.43469	91.94604	90.50161	1.71985	0.1103096	0.19054680	2.9908980	21	10 21.9	19.6
58844 1998 HV_{60}	14.0	X	352.09619	302.77070	18.52355	13.43724	0.1404711	0.18073266	3.0982155	21	8 19.7	17.8
58845 1998 HZ_{60}	14.4	X	176.18047	74.31767	21.58074	12.61916	0.1512928	0.22187788	2.7022574	21	6 21.9	19.0
58846 1998 HN_{63}	15.1	X	165.86272	46.08230	163.95251	6.57806	0.1888825	0.19047766	2.9916217	21	10 30.9	20.2
58847 1998 HO_{68}	13.6	X	301.00062	85.92422	293.81782	3.03689	0.1045540	0.18223992	3.0811088	21	8 9.1	17.6
58848 1998 HH_{71}	16.4	X	195.92752	170.63547	118.46550	2.49958	0.2195978	0.28430545	2.2905825	21	—	—
58849 1998 HZ_{72}	15.2	X	188.79044	280.80213	248.04053	5.35300	0.0575612	0.18790409	3.0188757	21	10 3.4	19.7
58850 1998 HH_{74}	15.1	X	173.78653	127.42800	147.57394	2.65637	0.0699427	0.19730733	2.9221819	21	—	—
58851 1998 HY_{77}	14.8	X	223.24686	150.05967	323.75942	2.17819	0.1576649	0.18580094	3.0416141	21	8 27.3	19.5
58852 1998 HE_{84}	13.8	X	260.86906	138.09253	193.86972	13.28208	0.1844424	0.17077651	3.2174906	21	4 11.3	18.8
58853 1998 HD_{85}	14.4	X	347.60301	86.99862	190.04904	4.53863	0.1118228	0.17525346	3.1624596	21	6 6.4	18.2
58854 1998 HV_{87}	13.9	X	77.90415	83.14325	231.06685	11.84766	0.1795005	0.18862796	3.0111473	21	12 12.4	18.5
58855 1998 HR_{92}	14.9	X	154.57272	315.08511	212.53065	9.85417	0.0946282	0.22554267	2.6729053	21	8 26.9	19.1
58856 1998 HK_{93}	16.4	X	265.11361	35.32646	246.47639	3.68702	0.1255487	0.29238826	2.2481714	21	2 1.7	19.7
58857 1998 HP_{94}	13.8	X	342.33683	17.82449	31.97107	10.63662	0.0198946	0.19077092	2.9885551	21	11 19.6	18.0
58858 1998 HU_{97}	13.9	X	173.48042	86.70711	21.62747	10.33822	0.0812729	0.17811553	3.1284907	21	7 5.9	18.8
58859 1998 HD_{98}	13.3	X	284.00787	43.32055	16.59724	10.50315	0.1219120	0.18434994	3.0575534	21	9 8.3	17.4
58860 1998 HU_{99}	14.4	X	69.14061	90.49164	187.67377	9.07438	0.0659644	0.18458066	3.0550049	21	10 5.5	18.5
58861 1998 HV_{99}	14.4	X	145.82710	82.06409	68.37847	9.99324	0.1969968	0.18030338	3.1031312	21	8 5.6	19.7
58862 1998 HR_{101}	13.6	X	26.97693	124.61129	72.56715	24.67387	0.2104142	0.17232601	3.1981746	21	5 10.3	17.2
58863 1998 HA_{102}	13.7	X	196.04011	14.55608	50.93126	14.80279	0.0908242	0.17434130	3.1734807	21	6 3.6	18.7
58864 1998 HC_{109}	15.0	X	101.19642	97.36031	133.93790	11.98328	0.1355901	0.22635096	2.6665383	21	10 1.2	19.1
58865 1998 HX_{109}	14.1	X	232.98045	275.87483	82.95908	11.23335	0.1190705	0.17258126	3.1950203	21	4 25.6	19.2
58866 1998 HP_{110}	15.0	X	192.05018	134.48962	134.26601	5.94806	0.0738769	0.19876580	2.9078697	21	—	—
58867 1998 HV_{110}	14.8	X	255.14010	144.23222	90.72375	6.66289	0.0713424	0.20254674	2.8715687	21	—	—
58868 1998 HK_{112}	14.1	X	278.19043	150.25100	77.69087	17.49334	0.0569895	0.20479703	2.8504950	21	1 3.4	18.3
58869 1998 HA_{113}	15.5	X	277.04747	64.62473	163.47793	9.17304	0.1096942	0.28910486	2.2651613	21	—	—
58870 1998 HR_{113}	14.6	X	76.60211	177.63353	114.30718	6.44280	0.2538962	0.18599718	3.0394743	21	11 24.2	19.4
58871 1998 HX_{114}	15.1	X	210.47707	98.16192	153.85547	12.44670	0.1601262	0.24077912	2.5589208	21	—	—
58872 1998 HY_{117}	15.2	X	253.13101	52.88783	70.15258	12.51869	0.2309526	0.23485249	2.6017922	21	10 11.5	19.0
58873 1998 HK_{118}	14.0	X	24.23242	160.92441	86.12752	16.25880	0.0934210	0.17649800	3.1475758	21	6 25.6	17.8
58874 1998 HH_{119}	14.5	X	254.22799	45.88306	133.80552	8.11973	0.1605822	0.19737198	2.9215437	21	12 21.3	18.6
58875 1998 HS_{119}	13.8	X	10.39692	356.62280	64.89916	15.18804	0.1820315	0.23885098	2.5726737	21	—	—
58876 1998 HT_{121}	14.6	X	66.24508	173.33047	145.62846	10.50850	0.0906547	0.18860599	3.0113811	21	11 27.2	19.0
58877 1998 HM_{124}	13.2	X	319.10459	93.91668	204.75688	21.56351	0.0819958	0.17315313	3.1879817	21	5 25.1	17.7
58878 1998 HK_{125}	15.2	X	252.51368	137.08353	142.76662	8.39564	0.2861139	0.20343890	2.8631672	21	1 22.7	20.3
58879 1998 HO_{126}	12.6	X	1.56256	98.54715	99.00383	23.51235	0.1070221	0.17007113	3.2263809	21	3 29.3	17.2
58880 1998 HA_{130}	15.1	X	3.17617	337.99477	192.03582	12.27534	0.1568870	0.21086734	2.7955236	21	1 26.4	18.4

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
58881	1998 HZ_{132}	15.2	X	120.42949	323.46373	297.05705	1.84924	0.1603198	0.19032525	2.9932187	21	11 17.5	20.0
58882	1998 HF_{134}	14.5	X	358.98822	303.46115	357.22720	9.26322	0.2678490	0.17933649	3.1142749	21	8 2.9	17.3
58883	1998 HH_{137}	15.2	X	310.77490	187.60546	42.63031	8.56627	0.1544538	0.20919128	2.8104358	21	2 2.9	19.2
58884	1998 HD_{139}	14.7	X	82.88037	290.15615	163.11300	12.07336	0.1957965	0.25437262	2.4669242	21	3 6.8	17.3
58885	1998 HA_{142}	16.2	X	207.01142	137.18108	176.70074	6.59427	0.1645691	0.28977630	2.2616608	21	1 17.1	19.7
58886	1998 HN_{143}	13.9	X	11.96600	266.76979	46.63677	18.49441	0.3502267	0.17900762	3.1180880	21	10 12.2	16.9
58887	1998 HD_{144}	14.7	X	315.60278	352.59169	132.26122	7.74736	0.1985882	0.19944433	2.9012707	21	—	—
58888	1998 HE_{144}	16.0	X	156.49498	100.30009	125.82359	6.22278	0.1643722	0.27468099	2.3437807	21	11 20.6	19.8
58889	1998 HW_{144}	16.4	X	292.36273	140.90858	142.12573	4.40805	0.1324436	0.29578140	2.2309447	21	3 7.2	19.1
58890	1998 HS_{145}	14.8	X	147.88471	177.80939	76.44410	10.08590	0.0519694	0.19163879	2.9795254	21	12 4.0	19.1
58891	1998 HT_{145}	15.2	X	280.99809	43.46484	85.90792	8.37807	0.1380591	0.23737772	2.5833074	21	12 7.8	18.1
58892	1998 HP_{148}	14.4	X	36.16381	205.44325	53.70852	19.05033	0.1277465	0.17724174	3.1387644	21	8 11.7	18.7
58893	1998 HQ_{153}	14.4	X	138.98336	56.33627	145.26195	17.11891	0.1472227	0.18526154	3.0475151	21	9 29.1	19.4
58894	1998 HK_{155}	15.4	X	119.95151	216.84918	74.02072	5.27672	0.1762517	0.23549486	2.5970587	21	12 29.7	19.7
58895	1998 JS_3	14.2	X	155.38282	350.29872	148.85364	5.84312	0.1045399	0.17770598	3.1332955	21	7 24.3	19.2
58896	Schlosser	14.6	X	36.77992	23.87642	235.26153	12.97047	0.1597061	0.21980953	2.7191826	21	8 5.9	18.0
58897	1998 KZ	15.5	X	69.72166	306.58029	48.90351	22.93733	0.0661787	0.36300255	1.9462394	21	—	—
58898	1998 KH_4	14.4	X	323.36143	84.33712	195.84571	1.53557	0.1458416	0.17119559	3.2122377	21	4 28.5	18.3
58899	1998 KD_7	13.7	X	135.18787	56.90856	77.06632	17.95694	0.0459269	0.17488618	3.1668856	21	6 21.3	18.3
58900	1998 KM_7	13.8	X	40.49425	163.21034	74.93533	13.14178	0.0941804	0.17594041	3.1542224	21	7 9.8	17.9
58901	1998 KX_8	14.7	X	22.99567	107.00438	129.38581	8.91656	0.1800661	0.21578068	2.7529248	21	6 15.3	17.5
58902	1998 KC_9	13.9	X	39.48462	106.50857	182.65200	16.06407	0.2321833	0.17980410	3.1088730	21	10 4.4	17.7
58903	1998 KC_{10}	16.1	X	208.48914	113.82397	172.49869	2.95770	0.1828541	0.28376701	2.2934790	21	—	—
58904	1998 KV_{10}	14.5	X	231.98254	9.27710	126.66635	10.92201	0.0404966	0.18706730	3.0278716	21	10 21.2	19.0
58905	1998 KE_{11}	14.3	X	30.90183	128.54446	152.89354	14.47261	0.1132856	0.17798779	3.1299873	21	8 23.5	18.3
58906	1998 KN_{18}	13.2	X	275.20831	154.78639	236.19476	21.21158	0.1118645	0.17908026	3.1172448	21	7 12.6	18.0
58907	1998 KM_{22}	15.5	X	104.19394	108.04987	184.04685	3.46605	0.1897211	0.23075363	2.6325119	21	12 17.7	19.8
58908	1998 KM_{29}	14.0	X	348.53541	56.98085	200.69546	9.56957	0.0459421	0.17172898	3.2055828	21	5 18.0	18.3
58909	1998 KP_{30}	14.0	X	105.16911	137.86040	50.87819	18.35827	0.1149097	0.17766231	3.1338089	21	8 10.1	19.0
58910	1998 KE_{32}	16.1	X	59.31660	234.70850	67.85404	4.45464	0.2392739	0.22533115	2.6745777	21	11 22.4	19.8
58911	1998 KO_{33}	15.7	X	172.64698	23.64385	248.41594	3.76339	0.1980661	0.23626440	2.5914163	21	—	—
58912	1998 KN_{34}	13.9	X	12.71048	161.41934	75.84904	20.46036	0.1633159	0.17195751	3.2027420	21	5 28.7	17.4
58913	1998 KY_{34}	15.1	X	273.75665	143.25286	169.32064	4.33508	0.0930730	0.21030924	2.8004671	21	4 8.7	19.0
58914	1998 KE_{41}	13.8	X	132.74932	319.21670	241.53523	17.04346	0.1063586	0.18210043	3.0826821	21	9 8.4	18.9
58915	1998 KA_{50}	13.8	X	86.65484	188.49652	90.16238	14.68387	0.2677640	0.18435476	3.0575001	21	11 20.5	18.9
58916	1998 KM_{50}	14.6	X	27.61193	116.17617	175.78538	16.76680	0.1820555	0.17867551	3.1219506	21	9 9.4	18.3
58917	1998 KP_{53}	14.4	X	25.87438	127.97992	130.50674	10.93355	0.1709530	0.17560454	3.1582430	21	7 21.3	18.0
58918	1998 KB_{54}	15.0	X	265.85088	346.74130	154.64448	9.73784	0.0694569	0.23327575	2.6135029	21	12 10.4	18.5
58919	1998 KF_{55}	14.3	X	27.55860	81.25947	213.54524	15.43995	0.2342429	0.17752563	3.1354173	21	9 17.5	18.1
58920	1998 KJ_{56}	16.0	X	154.76120	167.26785	197.49101	20.85437	0.0760478	0.37175572	1.9155682	21	—	—
58921	1998 KH_{58}	14.5	X	28.86111	245.35634	35.55533	16.99588	0.2110818	0.17866082	3.1221217	21	9 11.4	18.4
58922	1998 KK_{58}	15.1	X	259.17577	261.26962	356.74083	1.67147	0.0954958	0.20299118	2.8673757	21	1 16.1	19.3
58923	1998 KJ_{62}	14.3	X	124.66594	299.33936	227.16324	22.29204	0.1623738	0.17939968	3.1135435	21	7 24.5	19.7
58924	1998 KF_{67}	15.0	X	226.61651	184.82547	107.60385	15.10313	0.2458436	0.24448684	2.5329837	21	1 15.9	19.5
58925	1998 LZ_2	13.7	X	105.57641	326.56040	221.63399	15.44647	0.1664578	0.17561967	3.1580617	21	8 3.4	18.9
58926	1998 MO_1	15.6	X	126.02785	285.78704	182.73886	4.90417	0.1179575	0.21400513	2.7681307	21	5 17.3	19.6
58927	1998 MB_{10}	15.8	X	12.90927	83.46670	182.49044	9.60714	0.1112953	0.30099225	2.2051214	21	7 2.6	17.9
58928	1998 MP_{18}	14.6	X	57.84832	353.59436	345.02964	1.29668	0.1858628	0.18121247	3.0927441	21	12 19.8	19.1
58929	1998 MU_{30}	13.3	X	304.34937	287.09343	69.85571	22.50077	0.1174989	0.17642433	3.1484519	21	7 13.5	17.7
58930	1998 MK_{31}	15.4	X	66.44245	158.72910	107.16099	2.84609	0.2317538	0.22033900	2.7148247	21	10 15.2	19.2
58931	Palmys	11.6	X	358.55782	134.44536	119.56771	16.41006	0.0999417	0.08173365	5.2585835	21	6 2.5	18.2
58932	1998 OF_7	15.6	X	317.34376	12.08646	288.57424	5.96622	0.1997703	0.29418701	2.2389981	21	4 21.8	18.1
58933	1998 ON_{10}	15.9	X	275.74203	67.86681	298.27613	1.28626	0.2564572	0.25157829	2.4851576	21	5 25.2	19.6
58934	1998 OK_{13}	15.5	X	235.99410	293.91955	130.83250	6.24266	0.1053730	0.29681660	2.2257545	21	7 17.0	18.2
58935	1998 ON_{14}	15.2	X	314.80809	302.02754	113.48220	3.26834	0.1875717	0.26072110	2.4267140	21	10 27.6	17.1
58936	1998 PJ_1	16.2	X	206.06367	153.60622	93.40983	3.22528	0.1203581	0.27556728	2.3387526	21	—	—
58937	1998 QL_6	15.4	X	111.17461	221.00268	193.23038	3.41291	0.1956272	0.23200544	2.6230341	21	2 25.8	18.8
58938	1998 QJ_{18}	15.1	X	50.40927	230.33073	146.83817	14.07823	0.2669077	0.22480254	2.6787688	21	—	—
58939	1998 QY_{20}	16.1	X	5.22022	65.83886	267.68359	1.04544	0.2191355	0.25936053	2.4351934	21	10 15.2	17.9
58940	1998 QP_{21}	16.1	X	171.43769	315.68030	12.41220	2.60004	0.0833882	0.32208984	2.1077448	21	—	—
58941	1998 QK_{29}	16.0	X	257.94381	135.09205	281.77051	5.80883	0.1200820	0.25450404	2.4660749	21	7 30.3	19.3
58942	1998 QH_{33}	15.5	X	180.93461	86.50310	278.05321	3.59726	0.1394795	0.28303240	2.2974458	21	2 24.1	19.0
58943	1998 QF_{37}	15.5	X	175.34599	182.61198	203.97210	4.62142	0.3093343	0.23998270	2.5645791	21	3 31.5	20.1
58944	1998 QO_{41}	15.8	X	333.52322	333.95685	332.71657	3.80949	0.0652334	0.29529502	2.2333938	21	6 25.1	17.9
58945	1998 QY_{43}	15.6	X	36.50939	253.40052	16.19569	3.92224	0.0367660	0.29833579	2.2181920	21	8 16.0	17.9
58946	1998 QY_{51}	15.5	X	49.15980	169.43442	238.12295	4.73285	0.1478328	0.27020533	2.3695913	21	—	—
58947	1998 QX_{52}	16.2	X	218.55294	175.65889	191.49024	12.58545	0.3174186	0.24313141	2.5423890	21	4 6.6	20.7
58948	1998 QT_{54}	14.3	X	344.49552	227.80513	203.51047	5.59551	0.0640975	0.26507980	2.4000389	21	—	—
58949	1998 QK_{63}	16.0	X	88.42484	184.86768	210.80360	5.15291	0.1307756	0.31663038	2.1319041	21	—	—
58950	1998 QE_{69}	16.0	X	130.70055	129.85660	197.37569	8.53169	0.2490852	0.27388602	2.3483139	21	—	—
58951	1998 QD_{72}	14.2	X	92.26762	71.84584	237.89785	10.48410	0.2658921	0.22485416	2.6783588	21	12 31.1	18.9
58952	1998 QO_{74}	14.2	X	94.21068	131.69331	285.06028	11.47247	0.1409555	0.23381324	2.6094961	21	1 27.0	17.3
58953	1998 QC_{75}	13.7	X	259.56642	66.22425	237.65401	9.03300	0.1155305	0.15682677	3.4055656	21	3 12.1	19.0
58954	1998 QE_{76}	14.9	X	57.58049	64.48934	234.50630	7.79190	0.2674469	0.21953069	2.7214846	21	11 18.7	18.9
58955	1998 QG_{78}	15.9	X	143.82092	236.39256	236.35296	6.12771	0.1276455	0.29016939	2.2596178	21	6 9.0	19.0
58956	1998 QG_{90}	13.5	X	107.90143	338.70646	301.52106	16.21097	0.1846500	0.17850204	3.1239730	21	11 28.3	18.8
58957	1998 QE_{91}	14.4	X	43.05897	302.61822	8.14492	21.34836	0.3537128	0.17509955	3.1643125	21	11 14.0	19.1
58958	1998 QL_{97}	16.6	X	205.28093	104.22276	184.74615	22.00014	0.1151221	0.36519151	1.9384544	21	—	—
58959	1998 QD_{98}	15.3	X	298.72871	205.44658	135.11511	5.30392	0.1928191	0.29390695	2.2404202	21	5 28.4	17.8
58960	1998 QH_{99}	15.8	X	32.39146	353.98305	45.82307	3.19752	0.1895324	0.26707824	2.3880516	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
58961 1998 QG_{100}	16.0	X	132.52475	266.60130	147.57606	7.33986	0.2059251	0.28031194	2.3122865	21	3 20.2	19.1
58962 1998 QJ_{100}	15.1	X	312.10644	255.09512	14.38975	7.07444	0.1033652	0.28819924	2.2699040	21	3 20.7	17.6
58963 1998 QR_{100}	15.2	X	112.39284	187.45148	128.16068	4.37792	0.1915699	0.22651566	2.6652456	21	—	—
58964 1998 QJ_{104}	14.0	X	128.33118	292.88450	9.88757	11.80782	0.2772147	0.18404050	3.0609797	21	—	—
58965 1998 RO_{2}	14.3	X	122.49998	171.01650	153.78676	11.57008	0.1323873	0.18374602	3.0642492	21	—	—
58966 1998 RW_{3}	15.5	X	76.51541	236.71862	174.94210	17.14381	0.2352688	0.22990257	2.6390047	21	1 6.2	18.5
58967 1998 RR_{5}	16.6	X	36.08265	192.92634	177.63129	2.41117	0.2353548	0.26438144	2.4042635	21	—	—
58968 1998 RJ_{6}	14.8	X	302.20356	222.91030	345.84207	4.63206	0.0824516	0.28012431	2.3133190	21	—	—
58969 1998 RO_{6}	15.1	X	321.07508	194.48242	226.33198	4.48444	0.1521725	0.26160455	2.4212475	21	11 19.3	17.2
58970 1998 RZ_{8}	15.1	X	151.14975	197.85225	166.10397	3.65589	0.1645547	0.19273926	2.9681734	21	2 9.5	19.7
58971 1998 RE_{11}	16.2	X	267.20960	109.81378	178.96525	0.39043	0.1278505	0.28399025	2.2922770	21	2 15.3	19.2
58972 1998 RO_{16}	14.6	X	81.65280	129.37305	176.83926	11.67277	0.2106072	0.22374634	2.6871924	21	12 15.6	19.0
58973 1998 RX_{16}	15.8	X	190.93092	202.05042	174.05297	7.70504	0.2288624	0.24203105	2.5500889	21	3 29.3	20.1
58974 1998 RP_{22}	16.1	X	346.19576	188.71102	194.32275	0.74980	0.1845000	0.26084300	2.4259579	21	11 16.6	18.0
58975 1998 RD_{31}	14.6	X	168.33283	349.85278	296.42523	5.25065	0.0855306	0.18642372	3.0348363	21	—	—
58976 1998 RD_{34}	15.7	X	176.03622	202.52575	124.02091	5.80680	0.1544054	0.23522883	2.5990164	21	1 12.9	19.8
58977 1998 RK_{38}	14.5	X	125.04786	342.03982	353.14710	8.81966	0.1329250	0.18607827	3.0385912	21	—	—
58978 1998 RG_{40}	15.4	X	156.07794	278.37840	78.97970	3.77504	0.2471719	0.23524038	2.5989313	21	2 9.3	19.6
58979 1998 RE_{46}	15.5	X	41.41297	135.96413	293.53929	2.74783	0.2136377	0.27054738	2.3675936	21	—	—
58980 1998 RG_{47}	15.5	X	352.25339	107.52439	215.24669	5.49762	0.2660090	0.29940158	2.2129248	21	8 31.3	16.3
58981 1998 RZ_{56}	16.1	X	63.93310	235.53017	188.20810	3.11447	0.2714110	0.22899978	2.6459361	21	1 2.4	18.1
58982 1998 RF_{63}	15.9	X	151.36609	317.62375	54.65999	3.81977	0.2674668	0.27861625	2.3216589	21	2 20.3	19.5
58983 1998 RF_{66}	16.1	X	3.59916	180.76719	225.75306	1.09967	0.1532787	0.26371145	2.4083340	21	—	—
58984 1998 RU_{69}	15.2	X	28.32648	300.80336	161.65734	3.81819	0.1038501	0.27355694	2.3501968	21	—	—
58985 1998 RL_{72}	15.3	X	68.46266	55.40885	13.45575	5.02115	0.0975389	0.27431035	2.3458915	21	—	—
58986 1998 RO_{72}	16.0	X	121.75333	177.79686	156.30371	2.67070	0.2229521	0.27190914	2.3596822	21	—	—
58987 1998 RU_{74}	15.7	X	155.10318	207.49284	199.73515	4.38893	0.0961850	0.28223975	2.3017453	21	3 20.9	18.7
58988 1998 RD_{75}	14.1	X	60.27294	148.24622	179.13814	5.24904	0.1597975	0.17644961	3.1481512	21	12 5.7	18.6
58989 1998 RN_{80}	15.5	X	290.52873	221.67613	183.33294	5.97437	0.1220399	0.25422344	2.4678892	21	8 29.7	18.3
58990 1998 SA_{2}	15.8	X	123.57606	353.21658	87.76667	5.65147	0.2703977	0.23706661	2.5855669	21	4 26.1	19.9
58991 1998 SJ_{4}	15.7	X	329.81026	30.07195	29.03463	1.71319	0.2120636	0.26114919	2.4240613	21	12 7.5	17.3
58992 1998 SH_{8}	15.9	X	255.04292	16.17303	331.03136	0.35881	0.2375184	0.28899173	2.2657524	21	4 9.9	19.4
58993 1998 SF_{9}	14.5	X	133.46609	253.15160	62.93191	0.65606	0.2117359	0.18414505	3.0598209	21	—	—
58994 1998 SY_{9}	15.8	X	81.11661	194.52118	231.22599	1.31080	0.1933003	0.27511228	2.3413306	21	1 15.2	17.8
58995 1998 SY_{16}	15.8	X	319.51780	276.47838	74.59528	0.82069	0.2163510	0.25373820	2.4710345	21	7 17.9	17.8
58996 1998 SM_{17}	15.6	X	164.16577	232.62441	163.99098	4.83201	0.1896764	0.23856670	2.5747170	21	3 30.8	19.7
58997 1998 SG_{20}	15.7	X	55.51401	146.76824	177.35461	5.88045	0.0424707	0.21964945	2.7205036	21	11 17.9	19.4
58998 1998 SK_{21}	14.9	X	73.17554	90.98626	187.84838	13.02427	0.1619126	0.21622772	2.7491291	21	10 29.8	18.9
58999 1998 SP_{23}	15.5	X	354.90749	19.43110	44.07375	7.83229	0.0827667	0.26540587	2.3980728	21	—	—
59000 Beiguan	16.4	X	270.70408	97.29213	359.50277	4.79266	0.1193971	0.30064930	2.2067980	21	10 19.7	18.7
59001 Senftenberg	15.2	X	186.88736	317.63618	41.75995	8.58710	0.2193721	0.23797259	2.5790005	21	3 9.5	19.6
59002 1998 SZ_{36}	15.4	X	171.25938	159.28037	39.83235	1.22085	0.1020447	0.25984261	2.4321805	21	10 30.6	19.0
59003 1998 SL_{43}	16.6	X	113.75575	182.57824	221.75177	1.78686	0.2270847	0.27576770	2.3376193	21	2 13.4	19.4
59004 1998 SO_{43}	14.5	X	88.03113	76.95422	227.86339	0.76994	0.1746551	0.17876094	3.1209559	21	12 9.4	19.4
59005 1998 SW_{54}	15.4	X	183.50773	135.18189	167.38983	3.41116	0.2378728	0.23381245	2.6095019	21	—	—
59006 1998 SX_{58}	15.7	X	256.23004	327.28683	9.04111	4.23402	0.2258607	0.24490999	2.5300652	21	4 1.8	19.8
59007 1998 SF_{63}	15.4	X	182.89729	291.80189	85.31642	4.20267	0.1832922	0.28320224	2.2965272	21	3 20.3	19.0
59008 1998 SS_{63}	14.9	X	108.69399	51.61421	348.07589	8.73015	0.2108957	0.23239796	2.6200797	21	2 9.4	18.3
59009 1998 SZ_{65}	15.3	X	263.53332	200.91427	53.32896	7.72496	0.0889059	0.27701502	2.3305969	21	1 2.7	18.6
59010 1998 SX_{67}	15.5	X	232.60077	19.95298	290.50061	6.94598	0.1961422	0.24108431	2.5567607	21	2 9.9	19.8
59011 1998 SD_{71}	16.4	X	132.67315	276.44816	74.94264	2.06510	0.0415670	0.31610243	2.1342772	21	—	—
59012 1998 SW_{71}	14.1	X	30.45930	192.07827	189.91104	14.48335	0.1092964	0.17672509	3.1448788	21	12 26.1	18.6
59013 1998 SL_{72}	14.2	X	18.17088	357.13892	155.79416	3.50152	0.1254707	0.23291480	2.6162023	21	1 28.8	16.9
59014 1998 SC_{74}	16.3	X	1.46002	331.86803	83.44362	3.25920	0.1953741	0.26298999	2.4127366	21	—	—
59015 1998 SH_{74}	15.4	X	173.18869	29.96233	54.85445	5.35694	0.2652622	0.24226793	2.5484264	21	6 7.2	19.8
59016 1998 SX_{76}	15.6	X	192.16519	129.06235	251.99300	4.08687	0.3116115	0.24113615	2.5563943	21	4 3.9	20.4
59017 1998 ST_{77}	15.9	X	13.48375	331.51075	80.29200	3.39490	0.1568757	0.26618756	2.3933757	21	—	—
59018 1998 SH_{80}	16.2	X	64.52238	220.74159	223.38818	4.76875	0.2015007	0.27472395	2.3435364	21	1 7.4	17.8
59019 1998 SM_{83}	15.3	X	10.66781	219.27291	188.23282	5.88681	0.1008881	0.22210068	2.7004499	21	—	—
59020 1998 SX_{86}	15.4	X	168.74300	222.49375	211.34270	7.09352	0.0800590	0.24384507	2.5374261	21	5 14.9	19.1
59021 1998 SN_{94}	16.4	X	355.76453	201.30401	143.29726	3.72288	0.1992198	0.25768628	2.4457300	21	10 10.6	18.3
59022 1998 SC_{100}	15.9	X	133.62453	143.49537	273.39518	4.52365	0.1334568	0.28013155	2.3132791	21	3 11.2	19.0
59023 1998 SV_{103}	16.2	X	356.17507	3.08177	42.38892	3.81153	0.2088400	0.30578631	2.1820131	21	—	—
59024 1998 SB_{106}	16.2	X	104.31654	303.35659	152.17626	3.04149	0.1518318	0.28067766	2.3102775	21	4 1.3	18.8
59025 1998 SX_{110}	16.3	X	272.69300	222.86396	205.97200	7.49416	0.1125990	0.29799367	2.2198895	21	9 10.2	18.8
59026 1998 SS_{111}	16.4	X	2.42570	265.01764	159.50903	2.43720	0.1799321	0.26465685	2.4025953	21	—	—
59027 1998 SO_{115}	15.8	X	215.52026	310.70308	5.55823	3.23675	0.2349433	0.23777019	2.5804638	21	2 6.0	20.2
59028 1998 SV_{117}	15.2	X	308.45675	77.12409	327.27851	2.32270	0.1653861	0.25586957	2.4572931	21	9 24.6	17.3
59029 1998 SP_{118}	16.0	X	65.48534	161.84420	198.89730	1.87639	0.2385008	0.22327476	2.6909748	21	—	—
59030 1998 SB_{122}	15.7	X	333.65454	55.93599	309.36498	2.20899	0.0756680	0.25518440	2.4616897	21	9 19.7	18.4
59031 1998 SM_{124}	16.2	X	352.86022	6.29461	57.85556	1.33738	0.1201815	0.30717013	2.1754548	21	—	—
59032 1998 SG_{125}	16.0	X	108.13880	258.34097	165.96308	6.68999	0.0828496	0.27805412	2.3247869	21	2 8.9	18.7
59033 1998 SQ_{127}	16.5	X	142.98127	317.43000	82.12561	3.39574	0.2317586	0.27898880	2.3195916	21	3 15.2	20.0
59034 1998 SO_{128}	15.6	X	21.77406	313.91332	62.33431	3.27198	0.0855140	0.21927301	2.7236163	21	12 14.3	18.9
59035 1998 SF_{134}	15.7	X	97.44854	337.21193	23.68360	3.01187	0.1744435	0.27012656	2.3700519	21	—	—
59036 1998 SD_{135}	14.2	X	151.44681	107.34454	181.62610	8.98210	0.2749971	0.18395758	3.0618994	21	—	—
59037 1998 SU_{140}	15.6	X	147.76542	163.11229	212.29765	4.11037	0.1162424	0.27714148	2.3298879	21	1 31.5	18.7
59038 1998 SG_{147}	15.9	X	197.39574	5.33108	23.44950	8.18552	0.1743813	0.28424250	2.2909206	21	4 14.6	19.6
59039 1998 SS_{156}	16.1	X	214.21721	44.21856	280.01464	1.82652	0.0783549	0.32357488	2.1012909	21	1 29.9	18.7
59040 1998 SR_{160}	15.5	X	28.45992	16.38273	41.87266	3.76786	0.0463788	0.22442673	2.6817585	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59041 1998 SS_{161}	15.4	X	336.75078	276.42577	144.90795	2.51519	0.1997302	0.26059374	2.4275046	21	12 26.6	17.3
59042 1998 SW_{162}	16.2	X	136.72457	208.95003	206.01345	3.93679	0.1955441	0.23597798	2.5935128	21	3 26.7	20.2
59043 1998 SF_{167}	15.5	X	208.04064	207.76793	131.60176	6.60401	0.2288486	0.23987776	2.5653270	21	2 27.4	19.9
59044 1998 SV_{169}	15.0	X	329.71067	237.62890	226.90518	10.04351	0.1359239	0.22290723	2.6939319	21	—	—
59045 1998 TR_{2}	16.2	X	144.74131	44.41616	348.82754	2.61221	0.1357726	0.23465796	2.6032299	21	3 2.6	20.0
59046 1998 TW_{17}	15.6	X	357.37281	326.68447	88.61874	2.62549	0.1622687	0.26181576	2.4199451	21	—	—
59047 1998 TO_{19}	15.7	X	53.17113	226.32854	228.94354	3.11972	0.2127259	0.27254598	2.3560049	21	—	—
59048 1998 TH_{22}	16.2	X	93.36782	126.87168	209.99470	0.75132	0.1968187	0.26708163	2.3880314	21	—	—
59049 1998 TC_{31}	11.7	X	300.46348	220.39906	226.13297	24.20928	0.1228212	0.08435972	5.1488785	21	10 15.2	18.3
59050 1998 TB_{33}	12.9	X	18.88396	266.63514	48.09143	7.16659	0.2183249	0.12529950	3.9552124	21	9 25.4	17.5
59051 1998 TJ_{33}	15.8	X	129.28281	308.13136	64.73814	3.75516	0.1760707	0.27428283	2.3460484	21	1 16.5	18.6
59052 1998 TV_{34}	16.0	X	118.38747	356.49215	57.07651	3.67871	0.1121605	0.27696187	2.3308951	21	2 16.6	18.7
59053 1998 UU_{1}	16.4	X	62.38607	341.85406	112.65530	3.30089	0.1816096	0.26841633	2.3801085	21	1 21.0	18.2
59054 1998 UY_{5}	15.7	X	233.12125	296.73743	61.43417	5.78660	0.2806725	0.24309943	2.5426120	21	4 8.8	20.2
59055 1998 UQ_{7}	14.9	X	97.61709	67.03438	42.54610	13.48594	0.1230033	0.23596852	2.5935821	21	4 14.5	18.3
59056 1998 UK_{16}	15.7	X	126.80976	241.75956	135.21209	2.47708	0.1054711	0.23013645	2.6372164	21	1 16.9	19.1
59057 1998 UO_{18}	15.6	X	103.46191	13.47618	1.99731	2.23702	0.2199032	0.27009600	2.3702307	21	—	—
59058 1998 UA_{19}	15.1	X	300.27197	48.68826	15.68763	5.31170	0.0706366	0.21338451	2.7734955	21	10 14.1	18.4
59059 1998 UZ_{22}	15.9	X	189.67073	181.30888	223.47444	2.45991	0.1933420	0.28367316	2.2939849	21	4 28.6	19.4
59060 1998 UE_{25}	16.5	X	283.50869	313.29794	126.07128	4.95638	0.0858290	0.29916472	2.2140927	21	10 24.2	18.7
59061 1998 UP_{25}	16.3	X	284.91820	316.22311	91.62144	4.91014	0.0624241	0.29597827	2.2299553	21	9 11.8	18.7
59062 1998 US_{25}	16.2	X	353.30368	233.09762	166.16543	6.99683	0.1159671	0.30353619	2.1927834	21	12 28.5	18.4
59063 1998 UC_{32}	16.1	X	24.59904	30.49614	63.28643	4.55250	0.1238237	0.26755616	2.3852070	21	—	—
59064 1998 UB_{33}	15.3	X	185.28325	83.13727	241.27466	6.91559	0.2132481	0.23468013	2.6030659	21	1 20.5	19.7
59065 1998 UB_{43}	15.1	X	349.92696	356.40324	18.86634	5.35852	0.1207870	0.25767300	2.4458141	21	11 4.3	17.4
59066 1998 VY	16.1	X	190.41438	20.01184	41.56678	25.77722	0.1512960	0.28581261	2.2825228	21	5 16.2	19.7
59067 1998 VS_{1}	15.0	X	90.06831	9.03344	43.41759	14.81513	0.1009718	0.22892533	2.6465096	21	1 15.4	18.5
59068 1998 VZ_{1}	15.6	X	152.08459	65.65058	287.88385	0.88508	0.0924978	0.23026596	2.6362275	21	1 15.9	19.4
59069 1998 VX_{3}	16.0	X	0.74071	350.85914	71.54303	6.63043	0.1962790	0.26151976	2.4217708	21	—	—
59070 1998 VG_{6}	15.0	X	56.51693	24.65859	8.44474	6.70811	0.2305817	0.26674358	2.3900486	21	—	—
59071 1998 VX_{7}	14.5	X	286.16769	214.59542	216.78121	8.32891	0.2031100	0.21125412	2.7921105	21	9 9.7	18.1
59072 1998 VV_{9}	16.1	X	64.92911	26.68044	309.40299	3.88708	0.2309402	0.30735706	2.1745726	21	—	—
59073 1998 VL_{13}	14.6	X	150.67944	275.10508	41.69497	8.06792	0.1919531	0.27163386	2.3612761	21	—	—
59074 1998 VN_{13}	16.2	X	215.72742	204.64345	240.99868	4.99281	0.1022134	0.29154745	2.2524918	21	7 20.9	19.3
59075 1998 VT_{13}	15.8	X	336.44350	40.50373	13.38818	4.60433	0.1405931	0.30285109	2.1960891	21	12 23.0	17.5
59076 1998 VT_{14}	14.9	X	2.55763	134.61528	230.91882	11.45805	0.1265007	0.21457174	2.7632555	21	11 4.6	18.0
59077 1998 VT_{15}	15.1	X	152.86210	202.94799	212.31378	8.51550	0.1947341	0.23734370	2.5835542	21	4 11.4	19.2
59078 1998 VT_{19}	15.2	X	213.67094	157.51785	198.30778	12.00083	0.2077282	0.23973803	2.5663237	21	3 20.9	19.6
59079 1998 VY_{19}	12.4	X	49.06910	215.75488	68.86188	12.39033	0.1473722	0.12438463	3.9745829	21	9 28.9	17.9
59080 1998 VU_{21}	16.0	X	288.52899	19.62453	8.19145	4.95217	0.1286009	0.29418225	2.2390222	21	8 5.5	18.3
59081 1998 VJ_{24}	16.2	X	258.80434	255.70262	185.38792	5.05340	0.1500087	0.29544214	2.2326523	21	9 1.8	18.9
59082 1998 VJ_{25}	16.2	X	300.37696	293.96621	142.08532	1.36425	0.1556457	0.30001454	2.2099096	21	11 9.8	17.8
59083 1998 VZ_{25}	15.3	X	354.00782	339.96341	33.25852	2.60392	0.1961666	0.25766740	2.4458495	21	11 18.2	17.4
59084 1998 VD_{26}	13.8	X	10.74488	131.17408	230.44475	15.36379	0.1918402	0.17117971	3.2124363	21	11 11.8	17.6
59085 1998 VK_{29}	15.7	X	340.47704	7.79042	64.33732	4.88059	0.0692170	0.30443647	2.1884582	21	—	—
59086 1998 VJ_{31}	16.1	X	189.54921	150.77787	286.83194	1.26850	0.2018389	0.28523481	2.2856042	21	6 10.2	19.8
59087 Maccacaro	15.3	X	190.38785	115.52959	322.93887	5.25242	0.1652718	0.28357786	2.2944988	21	6 12.1	18.9
59088 1998 VW_{35}	16.0	X	189.29228	32.21214	59.95320	9.31390	0.2372522	0.28625194	2.2801868	21	6 28.6	19.9
59089 1998 VF_{38}	15.8	X	39.17866	351.59577	47.20483	3.33285	0.1669317	0.26511556	2.3998231	21	—	—
59090 1998 VZ_{41}	15.8	X	136.46364	142.27871	110.36542	4.81928	0.0982941	0.29567271	2.2314914	21	12 7.2	18.9
59091 1998 VJ_{42}	15.8	X	35.53997	89.10776	39.25899	2.92764	0.2186154	0.27308942	2.3528783	21	1 8.6	17.2
59092 1998 VT_{42}	15.6	X	52.50629	234.33253	44.38646	6.31500	0.2189463	0.29883782	2.2157071	21	10 23.1	18.1
59093 1998 VE_{47}	14.7	X	347.21565	28.74373	55.20623	9.75936	0.0242152	0.21978769	2.7193627	21	—	—
59094 1998 VM_{49}	15.7	X	228.30563	322.12135	8.47478	0.46557	0.1488695	0.28228378	2.3015059	21	2 28.9	19.1
59095 1998 WK	15.2	X	163.44470	142.13457	244.05226	2.23467	0.1317882	0.23377758	2.6097615	21	3 11.7	19.2
59096 1998 WT_{3}	14.2	X	79.33761	319.98751	57.43260	10.25095	0.1978269	0.26742216	2.3860037	21	—	—
59097 1998 WD_{5}	16.4	X	102.53216	236.63983	166.24298	2.38004	0.2103731	0.27267502	2.3552616	21	1 24.1	18.9
59098 1998 WN_{7}	14.5	X	328.26786	30.47917	72.35046	10.55372	0.1586504	0.21833210	2.7314358	21	—	—
59099 1998 WS_{10}	14.7	X	72.94256	5.18686	44.64794	3.13415	0.2193803	0.22626768	2.6671925	21	—	—
59100 1998 WA_{11}	14.9	X	103.85343	302.96261	87.10146	4.64840	0.0906846	0.22778432	2.6553402	21	1 2.2	18.2
59101 1998 WB_{13}	15.7	X	151.58898	62.35431	0.82062	2.94630	0.2327755	0.23678866	2.5875899	21	4 22.7	20.0
59102 1998 WC_{14}	15.9	X	203.04304	55.56216	270.83509	0.42110	0.0810658	0.31951969	2.1190326	21	1 21.0	18.5
59103 1998 WF_{15}	15.4	X	127.62348	256.41179	87.93003	5.68148	0.1114925	0.22576754	2.6711301	21	—	—
59104 1998 WQ_{17}	14.9	X	216.96547	34.13130	251.70978	8.26419	0.0824913	0.22863453	2.6487532	21	1 1.3	18.9
59105 1998 WP_{20}	15.8	X	14.67985	249.86258	142.80601	1.72512	0.1904660	0.26142001	2.4223868	21	—	—
59106 1998 WF_{23}	15.6	X	163.87333	148.20057	271.92043	2.87987	0.1619803	0.28179616	2.3041602	21	4 22.0	19.1
59107 1998 WF_{27}	15.6	X	315.68583	276.84512	285.96982	4.14307	0.1237165	0.22280380	2.6947656	21	1 4.3	19.3
59108 1998 WG_{27}	15.4	X	135.52365	40.51306	94.53523	3.21545	0.1045518	0.28139448	2.3063524	21	6 28.4	18.4
59109 1998 WT_{28}	15.9	X	21.15163	251.47077	276.72601	5.71158	0.0631328	0.27145717	2.3623007	21	2 16.5	18.5
59110 1998 WR_{31}	15.3	X	283.95104	81.91058	323.99442	7.47498	0.1746185	0.29355706	2.2422001	21	8 15.6	17.3
59111 1998 WZ_{33}	15.2	X	93.22289	328.41757	97.45282	6.71077	0.2234357	0.22973682	2.6402739	21	2 25.4	18.4
59112 1998 WN_{35}	13.1	X	351.17512	115.72554	229.38053	2.64934	0.1885129	0.12278667	4.0089923	21	9 4.9	17.6
59113 1998 XQ	15.5	X	163.94157	278.80732	118.30515	0.65016	0.1354204	0.23337600	2.6127544	21	3 27.5	19.3
59114 1998 XQ_{2}	16.1	X	243.59154	138.17404	305.56237	0.18678	0.1083351	0.29182061	2.2510860	21	8 23.1	19.0
59115 1998 XG_{3}	15.1	X	197.00612	42.20237	348.91999	7.52330	0.1965875	0.28173279	2.3045057	21	4 15.1	19.0
59116 1998 XL_{3}	15.3	X	214.51648	351.67811	291.48651	4.11006	0.0091842	0.31266505	2.1498912	21	—	—
59117 1998 XQ_{3}	14.7	X	314.17753	20.11864	77.29426	6.73215	0.0255283	0.21479361	2.7613522	21	12 18.8	18.3
59118 1998 XS_{5}	15.9	X	331.29635	297.21450	161.87016	1.24812	0.1135516	0.26217749	2.4177188	21	—	—
59119 1998 XU_{5}	15.5	X	21.10996	91.28221	94.62250	2.66104	0.0317328	0.23566950	2.5957755	21	3 24.5	18.7
59120 1998 XT_{8}	16.1	X	69.90481	331.62383	105.63214	3.24995	0.1683735	0.27079768	2.3661345	21	1 8.2	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59121 1998 XR_{10}	15.8	X	47.40382	167.02086	281.25891	0.57038	0.1395680	0.26534769	2.3984233	21	—	—
59122 1998 XJ_{15}	15.1	X	6.88231	320.41560	100.73586	7.16983	0.0488783	0.21813879	2.7330492	21	—	—
59123 1998 XN_{16}	14.2	X	129.09950	163.07629	285.79335	24.87929	0.1875425	0.27762018	2.3272089	21	4 17.2	18.2
59124 1998 XJ_{19}	16.2	X	20.69350	333.30091	81.02258	2.26704	0.0850416	0.30711527	2.1757139	21	—	—
59125 1998 XK_{20}	16.3	X	72.76347	240.90909	213.45965	1.08738	0.1111588	0.27013255	2.3700169	21	2 1.9	18.7
59126 1998 XE_{25}	14.7	X	124.43000	220.97663	79.53458	7.71592	0.1604154	0.22073264	2.7115962	21	—	—
59127 1998 XP_{25}	15.8	X	359.61787	229.25852	115.10790	6.33261	0.1252396	0.29194621	2.2504403	21	10 19.4	17.9
59128 1998 XA_{26}	14.5	X	102.76101	284.31620	111.78214	12.81369	0.1252871	0.18001298	3.1064677	21	1 24.5	18.8
59129 1998 XC_{27}	15.0	X	233.56187	287.65294	244.22011	14.36391	0.1985708	0.25565859	2.4586448	21	11 21.2	18.5
59130 1998 XU_{34}	15.4	X	165.06725	112.77022	283.58111	2.55620	0.1954994	0.23512280	2.5997977	21	3 29.6	19.6
59131 1998 XA_{38}	15.0	X	212.58449	67.64109	289.22312	1.93054	0.0938743	0.23511014	2.5998910	21	3 23.7	18.9
59132 1998 XM_{39}	14.9	X	182.07489	328.85682	80.11117	8.59146	0.1878495	0.23768248	2.5810987	21	5 2.5	19.2
59133 1998 XM_{41}	15.6	X	262.82051	67.20758	37.12766	8.43381	0.1280123	0.29561231	2.2317953	21	10 18.5	17.9
59134 1998 XR_{43}	16.2	X	65.56377	144.48989	325.80826	4.18753	0.2319499	0.27232717	2.3572668	21	2 26.9	17.7
59135 1998 XN_{46}	15.0	X	83.04001	323.16121	42.12946	6.83814	0.1846383	0.30799315	2.1715775	21	—	—
59136 1998 XZ_{49}	14.0	X	317.95837	329.30099	61.67888	12.21625	0.1178358	0.20663450	2.8335714	21	9 28.7	17.5
59137 1998 XY_{50}	16.0	X	182.14138	357.40539	69.88672	4.98581	0.2037696	0.28227482	2.3015546	21	5 21.6	19.7
59138 1998 XC_{52}	15.8	X	87.76179	59.89815	40.75324	7.70720	0.1420559	0.27339544	2.3511222	21	3 16.6	18.4
59139 1998 XS_{59}	16.2	X	167.70160	289.06905	152.95493	3.37853	0.1338274	0.28230996	2.3013637	21	5 25.6	19.7
59140 1998 XN_{60}	15.4	X	148.82634	157.97517	250.71143	4.18529	0.2088774	0.23377120	2.6098089	21	3 30.8	19.6
59141 1998 XE_{61}	16.0	X	324.92750	333.77544	281.82185	4.47172	0.2008783	0.27315492	2.3525021	21	3 2.5	18.8
59142 1998 XD_{62}	15.2	X	37.58183	153.32030	231.25111	4.39099	0.0739975	0.21871454	2.7282507	21	—	—
59143 1998 XT_{72}	13.8	X	271.23361	95.40563	319.80217	11.56705	0.1360995	0.20479428	2.8505205	21	8 11.3	17.7
59144 1998 XN_{73}	15.2	X	54.31931	317.87179	26.62274	8.20068	0.0048747	0.29968700	2.2115196	21	12 22.0	17.9
59145 1998 XX_{73}	15.5	X	65.70528	355.95407	64.54999	15.20063	0.2348148	0.22416323	2.6838596	21	—	—
59146 1998 XC_{74}	15.1	X	138.19267	55.28310	43.65201	3.95489	0.1774206	0.27945608	2.3170052	21	5 19.5	18.4
59147 1998 XG_{77}	15.7	X	115.58754	216.32051	262.89753	4.07875	0.0606951	0.28037872	2.3119194	21	5 4.0	18.6
59148 1998 XB_{78}	13.6	X	290.45792	348.25041	117.20870	13.16252	0.0898897	0.21365246	2.7711761	21	11 24.6	17.2
59149 1998 XA_{84}	16.0	X	186.12195	14.48171	132.93514	2.76814	0.0691773	0.29159186	2.2522631	21	9 14.7	18.8
59150 1998 XV_{90}	14.2	X	21.31928	188.27210	217.29567	4.14066	0.1192856	0.17361099	3.1823741	21	—	—
59151 1998 XK_{96}	15.7	X	76.36687	134.37923	37.35042	1.32611	0.1468090	0.27695785	2.3309176	21	6 7.9	18.1
59152 1998 XN_{97}	14.7	X	115.86607	341.88358	25.59510	13.68226	0.2188125	0.27405444	2.3473517	21	—	—
59153 1998 XV_{97}	16.2	X	256.35695	336.58953	62.24326	6.35199	0.1069355	0.29009334	2.2600127	21	7 6.6	19.0
59154 1998 XP_{98}	15.4	X	334.33805	66.20595	185.82322	1.52048	0.0444164	0.19502316	2.9449545	21	4 17.9	19.1
59155 1998 XL_{99}	15.3	X	97.71272	229.94363	77.23605	6.08381	0.1890075	0.17516607	3.1635113	21	12 21.3	20.5
59156 1998 YC_{3}	15.1	X	137.93084	156.27874	310.02013	3.82242	0.0944637	0.27976716	2.3152873	21	5 19.9	18.2
59157 1998 YC_{4}	15.2	X	219.57016	304.69728	121.30212	6.49971	0.1695075	0.28598834	2.2815877	21	6 24.4	18.7
59158 1998 YQ_{4}	15.6	X	198.52796	288.64443	218.90623	23.21256	0.2452107	0.29121655	2.2541978	21	9 9.6	19.8
59159 1998 YX_{7}	15.8	X	189.64935	314.88336	111.43740	7.18945	0.0812421	0.28127248	2.3070193	21	5 27.9	19.0
59160 1998 YF_{8}	13.5	X	2.95250	229.50786	232.25933	4.69323	0.1845828	0.17474217	3.1686254	21	—	—
59161 1998 YL_{10}	16.2	X	88.44162	41.88255	110.28133	2.44891	0.1816651	0.27704083	2.3304522	21	6 3.7	19.0
59162 1998 YX_{10}	15.1	X	305.73248	174.90535	306.12874	3.83254	0.0382266	0.21190494	2.7863906	21	—	—
59163 1998 YX_{11}	16.0	X	96.03476	46.37122	96.94954	5.01924	0.1433518	0.27792752	2.3254929	21	5 26.8	18.7
59164 1998 YG_{12}	15.7	X	146.77334	357.55620	67.19467	3.22706	0.1936762	0.27652220	2.3333652	21	4 16.2	19.1
59165 1998 YY_{13}	15.0	X	337.82580	263.60981	67.15228	2.99439	0.0764349	0.20510169	2.8476715	21	8 5.8	18.4
59166 1998 YZ_{18}	16.3	X	103.96328	209.03555	193.77435	2.90508	0.1688396	0.22888641	2.6468097	21	1 29.3	19.6
59167 1998 YC_{19}	16.1	X	81.06966	279.34538	195.98979	2.79137	0.1788283	0.27594707	2.3366062	21	3 28.5	18.2
59168 1998 YU_{19}	15.6	X	121.94679	50.45893	65.16619	1.72094	0.1572072	0.27806446	2.3247293	21	5 22.3	18.7
59169 1998 YJ_{26}	14.7	X	126.70185	201.72686	322.46800	5.30143	0.0749708	0.28579491	2.2826170	21	7 26.5	17.5
59170 1998 YA_{27}	15.6	X	56.88252	25.99725	22.96019	0.71313	0.1965076	0.26606784	2.3940936	21	—	—
59171 1999 AP_{2}	15.1	X	357.68280	300.42801	18.50047	5.59941	0.0285201	0.28716556	2.2753479	21	8 27.9	17.6
59172 1999 AE_{3}	15.7	X	230.02537	273.93790	137.11249	14.80886	0.0974075	0.23942426	2.5685653	21	6 23.0	19.7
59173 1999 AC_{5}	16.0	X	4.31894	34.80130	96.60051	7.68730	0.1426425	0.26414493	2.4056985	21	—	—
59174 1999 AT_{5}	14.0	X	30.35886	293.24820	336.38742	14.21479	0.0665203	0.23897640	2.5717734	21	8 8.2	17.1
59175 1999 AF_{6}	14.5	X	359.39757	75.91277	135.60903	14.23984	0.1299372	0.18248025	3.0784030	21	4 2.3	18.3
59176 1999 AP_{7}	16.3	X	349.87564	7.49201	127.07291	5.86783	0.1701735	0.26424157	2.4051119	21	—	—
59177 1999 AT_{7}	15.3	X	190.51101	349.15681	62.01219	5.22158	0.2305639	0.27954062	2.3165380	21	5 8.8	19.1
59178 1999 AF_{8}	14.7	X	326.95394	323.82337	80.37697	6.74927	0.0466429	0.29279248	2.2461018	21	11 13.9	17.0
59179 1999 AG_{8}	15.1	X	129.99881	310.86314	103.98436	7.66266	0.1141529	0.27086896	2.3657193	21	3 8.7	18.2
59180 1999 AP_{12}	16.4	X	289.11628	276.45656	279.04679	0.81719	0.1429377	0.26192928	2.4192459	21	—	—
59181 1999 AB_{13}	16.4	X	330.91595	124.35083	134.38087	5.67297	0.2029528	0.27429243	2.3459936	21	3 20.4	18.8
59182 1999 AR_{13}	15.1	X	3.62568	329.19507	114.95565	9.87000	0.1283520	0.21672184	2.7449489	21	—	—
59183 1999 AP_{15}	15.1	X	85.11866	341.02332	313.11044	2.71181	0.1655981	0.29481404	2.2358223	21	12 10.2	18.4
59184 1999 AR_{15}	15.3	X	14.95178	339.29753	317.57387	2.89561	0.1640279	0.28646035	2.2790807	21	9 3.1	16.9
59185 1999 AT_{15}	15.4	X	342.42260	331.38560	309.10020	5.91370	0.1216616	0.28009586	2.3134756	21	5 23.3	17.7
59186 1999 AK_{16}	16.3	X	198.27312	329.24207	322.42109	1.58496	0.1802910	0.26375911	2.4080439	21	—	—
59187 1999 AP_{17}	16.4	X	13.19269	309.01022	144.12746	2.10986	0.1386531	0.26185922	2.4196774	21	—	—
59188 1999 AJ_{18}	15.7	X	307.98811	345.17291	309.53895	2.29514	0.1646079	0.27624535	2.3349239	21	4 8.7	18.4
59189 1999 AU_{19}	15.7	X	62.35207	140.42655	127.18435	1.44636	0.1318991	0.28552289	2.2840666	21	10 5.1	18.3
59190 1999 AZ_{21}	15.1	X	56.68549	170.60345	272.57696	4.60425	0.2044614	0.26618663	2.3933813	21	—	—
59191 1999 AS_{24}	15.0	X	126.39276	71.48718	331.59420	6.40735	0.1157538	0.26783454	2.3835540	21	2 13.9	18.1
59192 1999 AU_{30}	15.8	X	137.74204	290.47490	131.10214	5.41584	0.2652071	0.27581925	2.3373280	21	4 11.6	19.4
59193 1999 AJ_{31}	16.2	X	253.93542	248.93009	353.71231	0.94934	0.1457423	0.26124120	2.4234921	21	—	—
59194 1999 BV_{1}	15.9	X	46.84411	243.84484	238.54417	1.64945	0.1743759	0.26763715	2.3847258	21	1 28.9	17.6
59195 1999 BG_{2}	14.9	X	110.50652	296.66033	176.22519	26.32961	0.1626591	0.23417087	2.6068386	21	5 11.9	19.0
59196 1999 BN_{2}	16.8	X	136.47757	297.23023	308.76927	3.37861	0.1490148	0.29384743	2.2407227	21	11 27.2	20.2
59197 1999 BN_{3}	17.0	X	63.94087	325.69824	134.70922	2.89088	0.1667701	0.26881325	2.3777650	21	1 31.8	19.0
59198 1999 BT_{3}	15.8	X	140.24961	18.74690	153.02624	4.78307	0.0805642	0.28453330	2.2893594	21	8 22.6	18.9
59199 1999 BH_{6}	15.1	X	55.49724	114.94392	156.71223	6.96953	0.1095507	0.28211819	2.3024064	21	9 28.1	17.7
59200 1999 BS_{7}	15.4	X	105.14853	314.97207	274.21876	4.06057	0.0959130	0.28811452	2.2703490	21	9 28.2	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59201 1999 BW_7	16.9	X	119.36890	334.22445	147.84487	6.50593	0.1451816	0.27775788	2.3264397	21	5 28.2	20.1
59202 1999 BB_8	15.7	X	97.86144	318.59606	146.98849	5.95663	0.1001037	0.27288645	2.3540449	21	3 30.8	18.4
59203 1999 BC_9	14.8	X	167.32675	293.64042	134.84545	13.77861	0.1701057	0.23411950	2.6072199	21	5 15.3	19.3
59204 1999 BF_9	15.3	X	33.24361	322.22653	153.48020	3.20619	0.2456878	0.22222073	2.6994773	21	1 3.6	17.5
59205 1999 BD_{10}	15.7	X	358.97493	182.16843	318.33904	8.46650	0.1558265	0.26401878	2.4064647	21	—	—
59206 1999 BE_{10}	15.3	X	153.33243	15.42824	125.23976	3.22103	0.0961798	0.28270330	2.2992285	21	7 26.7	18.3
59207 1999 BD_{11}	16.2	X	42.27669	268.25632	348.38169	1.37819	0.1939432	0.27960684	2.3161722	21	8 28.8	18.4
59208 1999 BW_{12}	16.1	X	131.85170	305.63808	214.97481	1.75055	0.1688336	0.28209849	2.3025136	21	8 3.3	19.6
59209 1999 BD_{13}	15.6	X	170.45461	299.91654	153.67496	6.78593	0.0668639	0.28047836	2.3113718	21	6 10.8	18.8
59210 1999 BJ_{13}	15.2	X	185.68471	175.98313	259.84566	1.89353	0.1175228	0.28044776	2.3115399	21	6 4.1	18.6
59211 1999 BS_{13}	16.1	X	292.24256	119.93924	141.08931	1.81650	0.1540094	0.26738803	2.3862068	21	2 6.7	19.2
59212 1999 BU_{13}	15.9	X	134.42979	332.60040	137.93200	6.41160	0.0875219	0.27662532	2.3327853	21	5 23.8	19.1
59213 1999 BO_{14}	15.1	X	116.07907	85.10330	1.60984	8.39045	0.1757804	0.27428308	2.3460470	21	4 6.7	18.0
59214 1999 BX_{14}	15.9	X	7.62972	239.54470	313.21829	2.03148	0.1068375	0.27143682	2.3624187	21	2 27.9	18.1
59215 1999 BC_{15}	15.2	X	33.20613	149.76680	133.76025	7.13273	0.1062016	0.28507651	2.2864503	21	9 10.7	17.5
59216 1999 BG_{15}	14.0	X	198.98536	341.29328	338.23576	9.56271	0.1251485	0.21828114	2.7318608	21	1 29.2	18.3
59217 1999 BK_{19}	16.1	X	94.10372	313.73427	98.72582	4.11371	0.2251170	0.27001054	2.3707308	21	1 28.1	18.2
59218 1999 BE_{20}	13.8	X	117.49775	45.89313	2.28427	10.29241	0.1492635	0.18450521	3.0558378	21	3 1.8	18.2
59219 1999 BJ_{23}	14.5	X	204.95798	283.38899	130.69102	6.42507	0.2749152	0.19717009	2.9235377	21	5 26.9	19.8
59220 1999 BX_{25}	15.5	X	88.42991	249.40929	229.26759	3.43017	0.1267733	0.27381574	2.3487157	21	4 5.2	18.2
59221 1999 BU_{29}	16.1	X	54.86832	159.67180	329.90325	3.09749	0.1827436	0.26973590	2.3723398	21	2 27.9	17.8
59222 1999 BT_{31}	15.9	X	41.67849	105.89976	328.58484	1.73343	0.1740153	0.26455736	2.4031976	21	—	—
59223 1999 BV_{32}	16.4	X	78.17971	107.68209	119.16027	7.04928	0.1402545	0.28361991	2.2942720	21	9 1.2	19.3
59224 1999 BS_{34}	16.0	X	113.76164	103.86295	29.33835	4.29994	0.1784189	0.27813563	2.3243327	21	6 8.1	19.1
59225 1999 CC	14.8	X	126.32463	350.53416	66.35392	5.80448	0.2657724	0.27305148	2.3530963	21	3 26.4	18.3
59226 1999 CE	15.0	X	197.29006	350.18198	45.47157	7.38082	0.1198655	0.27726767	2.3291809	21	4 24.6	18.5
59227 1999 CG	15.4	X	44.37999	91.59323	52.62160	5.10021	0.1856205	0.26976888	2.3721464	21	3 3.1	17.2
59228 1999 CH	14.7	X	265.16623	346.61431	37.33163	7.16488	0.1190718	0.28383085	2.2931352	21	6 24.5	17.8
59229 1999 CQ	15.9	X	55.69688	67.06882	26.57034	2.87755	0.1851238	0.26672483	2.3901606	21	1 5.5	17.8
59230 1999 CY	15.0	X	142.43875	244.70053	88.51141	4.00767	0.1984256	0.30489065	2.1862843	21	—	—
59231 1999 CZ	15.5	X	106.87576	17.38512	57.82524	3.57680	0.2194747	0.27158406	2.3615648	21	3 20.5	18.3
59232 Sfiligoi	15.5	X	290.12483	123.21496	92.15748	9.99452	0.1997804	0.26176881	2.4202345	21	—	—
59233 1999 CH_1	14.8	X	359.26971	264.05421	344.76286	13.74850	0.0492198	0.27560510	2.3385387	21	5 5.8	17.8
59234 1999 CR_1	14.9	X	22.36149	204.58250	349.79627	14.41640	0.0596209	0.22781781	2.6550800	21	4 1.9	18.3
59235 1999 CV_1	14.5	X	202.71100	346.41333	15.85895	8.51639	0.1610661	0.27215726	2.3582478	21	3 19.5	18.1
59236 1999 CD_2	14.4	X	325.55504	273.90289	97.98540	5.68622	0.1694142	0.28765560	2.2727631	21	9 19.6	16.1
59237 1999 CF_2	16.4	X	155.51732	71.65753	38.91520	6.40503	0.1589217	0.28068680	2.3102273	21	6 20.6	19.9
59238 1999 CN_2	15.5	X	70.60084	275.16952	141.10941	1.92800	0.1698478	0.26519513	2.3993431	21	—	—
59239 Alhazen	15.3	X	307.00843	31.79366	4.75957	7.14076	0.2098944	0.29170467	2.2516824	21	9 10.5	16.9
59240 1999 CY_2	15.1	X	92.03755	117.36452	295.68552	1.46566	0.1953212	0.26692860	2.3889441	21	1 20.4	17.3
59241 1999 CC_4	15.0	X	157.55572	343.44067	138.81133	5.52250	0.1136173	0.28189661	2.3036128	21	7 6.5	18.2
59242 1999 CS_4	14.6	X	137.11037	209.71657	198.87436	1.96327	0.1560326	0.26902526	2.3765156	21	3 10.8	17.8
59243 1999 CZ_4	16.0	X	206.31891	330.12961	103.85182	4.94695	0.1671238	0.28408563	2.2917639	21	6 21.9	19.5
59244 1999 CG_6	14.5	X	122.56155	101.15116	328.77636	26.64720	0.2628445	0.23047779	2.6346120	21	3 25.0	19.0
59245 1999 CT_7	14.7	X	163.07040	57.95345	348.24053	22.80084	0.2019140	0.27458466	2.3443288	21	3 30.5	18.6
59246 1999 CQ_8	15.2	X	133.02600	93.15555	139.99993	8.00440	0.1990327	0.28990989	2.2609660	21	11 11.5	19.0
59247 1999 CU_{11}	15.0	X	58.98008	261.44624	314.70059	21.23341	0.1902352	0.23311645	2.6146934	21	7 26.6	18.1
59248 1999 CG_{13}	15.9	X	112.92396	237.22321	175.08348	7.75013	0.0795118	0.26714043	2.3876810	21	1 31.6	18.9
59249 1999 CZ_{15}	14.5	X	103.70241	111.84769	110.77602	21.72412	0.2677745	0.28215604	2.3022005	21	10 15.3	18.8
59250 1999 CD_{16}	14.6	X	163.35414	68.94634	125.74093	24.02665	0.1891271	0.28697889	2.2763345	21	10 27.7	18.8
59251 1999 CG_{21}	16.0	X	292.25480	159.07097	321.00017	1.02306	0.0473567	0.29821618	2.2187851	21	—	—
59252 1999 CE_{25}	15.7	X	341.46796	67.75367	76.40124	5.07134	0.1744728	0.26245669	2.4160038	21	—	—
59253 1999 CH_{25}	15.8	X	1.17752	97.25009	59.25335	3.20612	0.1551745	0.26585882	2.3953483	21	—	—
59254 1999 CL_{25}	15.0	X	317.68948	116.54455	358.86674	5.35087	0.0799667	0.21270586	2.7793917	21	—	—
59255 1999 CB_{26}	15.6	X	12.18082	310.21507	138.68444	1.70004	0.1578285	0.26111508	2.4242724	21	—	—
59256 1999 CG_{27}	15.3	X	307.71135	192.28911	9.29062	6.36477	0.0583342	0.26469107	2.4023882	21	—	—
59257 1999 CO_{27}	14.9	X	101.71253	168.42608	51.82806	6.21175	0.0159820	0.28634569	2.2796891	21	9 7.2	17.7
59258 1999 CD_{29}	15.9	X	313.25573	129.00875	134.78172	2.87313	0.1772287	0.27108217	2.3644787	21	3 4.7	18.9
59259 1999 CP_{29}	15.5	X	190.33436	181.86226	317.12672	3.04946	0.0741454	0.28675537	2.2775173	21	9 5.6	18.4
59260 1999 CR_{29}	16.2	X	86.02227	167.23428	331.10916	2.98298	0.1328753	0.27421996	2.3464070	21	4 30.9	18.8
59261 1999 CX_{29}	14.4	X	347.35798	270.59593	141.32653	7.10403	0.2010422	0.21005959	2.8026855	21	12 17.7	17.3
59262 1999 CY_{29}	15.4	X	38.87459	99.54493	343.10829	3.44886	0.1754126	0.26356070	2.4092523	21	—	—
59263 1999 CK_{30}	15.7	X	48.59079	301.10236	100.57471	2.24891	0.1902572	0.26030653	2.4292899	21	—	—
59264 1999 CL_{30}	16.0	X	287.24740	219.09412	3.26590	2.11911	0.1374846	0.26288188	2.4133980	21	—	—
59265 1999 CJ_{31}	15.8	X	179.57838	65.65498	4.39316	4.47952	0.0889080	0.27856196	2.3219606	21	5 18.7	19.0
59266 1999 CD_{32}	15.2	X	9.23884	150.79732	58.68226	7.74144	0.0611066	0.27292076	2.3538475	21	4 4.1	17.8
59267 1999 CR_{32}	15.4	X	144.44646	359.17627	115.13663	7.36590	0.0799117	0.27888758	2.3201529	21	6 8.8	18.5
59268 1999 CU_{34}	15.0	X	103.72787	103.58500	356.94158	4.38678	0.0328545	0.27169527	2.3609203	21	3 19.3	17.7
59269 1999 CL_{36}	15.2	X	64.36539	221.06990	84.27352	7.80701	0.1761005	0.29119040	2.2543327	21	12 4.2	18.1
59270 1999 CT_{37}	15.5	X	78.73787	227.52898	130.34473	3.87285	0.1425213	0.30076509	2.2062316	21	—	—
59271 1999 CG_{38}	16.4	X	336.99690	185.62591	317.36063	1.72690	0.1564306	0.26110539	2.4243324	21	—	—
59272 1999 CN_{38}	15.8	X	129.20374	19.00315	67.26917	0.74208	0.1855525	0.27480807	2.3430581	21	4 24.5	19.1
59273 1999 CG_{39}	15.1	X	58.74502	70.86464	356.44266	5.73477	0.0862020	0.26282166	2.4137666	21	—	—
59274 1999 CL_{42}	15.9	X	325.58269	240.23793	341.12082	7.32024	0.1507870	0.26677902	2.3898369	21	1 29.1	18.8
59275 1999 CC_{43}	14.4	X	12.46467	103.83681	349.64480	4.31002	0.1749499	0.17309073	3.1887478	21	—	—
59276 1999 CF_{45}	14.8	X	119.99840	336.26769	115.27660	7.43529	0.0623221	0.27247957	2.3563877	21	4 7.2	17.8
59277 1999 CG_{45}	15.6	X	3.26318	153.21823	47.16419	3.40329	0.1760228	0.26888414	2.3773471	21	2 26.2	17.6
59278 1999 CT_{45}	15.3	X	24.77376	83.19286	19.59244	2.60617	0.1132790	0.26260135	2.4151164	21	—	—
59279 1999 CA_{46}	17.1	X	50.19565	7.12099	124.25538	2.44645	0.1891854	0.26889544	2.3772805	21	2 21.9	18.8
59280 1999 CL_{48}	15.3	X	151.47224	52.14827	57.28439	2.11541	0.0323326	0.27781570	2.3261168	21	6 5.5	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59281 1999 CX_{48}	14.9	X	321.16903	280.11715	115.92271	6.48482	0.1230497	0.29093942	2.2556290	21	10 23.3	16.9
59282 1999 CG_{49}	15.2	X	8.34915	123.84401	100.84771	7.20836	0.1081007	0.27299223	2.3534367	21	4 23.2	17.6
59283 1999 CF_{50}	15.0	X	276.02363	81.41482	355.84095	9.23344	0.0965930	0.24574516	2.5243296	21	9 25.7	18.0
59284 1999 CM_{50}	15.7	X	178.73749	308.53970	141.38920	4.91203	0.1600699	0.28033182	2.3121772	21	6 16.7	19.2
59285 1999 CP_{50}	14.5	X	158.59591	125.90129	153.98171	5.58010	0.1706464	0.29702196	2.2247285	21	—	—
59286 1999 CV_{51}	15.1	X	149.93569	81.24657	41.09382	4.50638	0.1718523	0.23588302	2.5942088	21	7 2.3	19.3
59287 1999 CC_{54}	13.5	X	340.58179	280.00521	342.74346	9.84497	0.0579394	0.18585948	3.0409754	21	5 6.1	17.6
59288 1999 CQ_{54}	15.2	X	339.09431	102.77330	352.52782	3.65022	0.1315721	0.25590925	2.4570391	21	—	—
59289 1999 CA_{55}	15.5	X	21.46325	51.29589	28.26012	5.13941	0.1756813	0.25984095	2.4321908	21	—	—
59290 1999 CC_{55}	15.0	X	247.31607	290.16706	90.57952	5.56698	0.0809729	0.27883779	2.3204290	21	6 2.5	18.1
59291 1999 CJ_{56}	14.1	X	299.17910	264.86733	113.53987	7.83395	0.1263805	0.28503772	2.2866577	21	8 8.3	16.3
59292 1999 CN_{56}	14.9	X	195.47326	351.18666	46.75458	4.57526	0.1270959	0.27526786	2.3404483	21	4 25.5	18.5
59293 1999 CM_{57}	14.7	X	355.93970	57.51259	149.78342	6.09432	0.1139411	0.22464340	2.6800338	21	3 11.2	17.7
59294 1999 CY_{58}	14.9	X	36.24471	72.51773	21.37531	6.93863	0.1094856	0.26212456	2.4180443	21	—	—
59295 1999 CK_{59}	15.6	X	77.60920	104.75609	24.82527	7.18203	0.0769206	0.27097535	2.3651001	21	3 29.9	18.1
59296 1999 CU_{64}	14.1	X	265.34472	300.95614	276.10605	15.25092	0.1342660	0.21588039	2.7520771	21	—	—
59297 1999 CD_{66}	14.8	X	343.20408	259.29731	192.75464	1.69777	0.1555947	0.25760328	2.4462554	21	—	—
59298 1999 CQ_{66}	15.0	X	288.14963	205.33384	178.41250	6.19758	0.1203523	0.28627026	2.2800895	21	7 26.9	17.5
59299 1999 CE_{68}	15.0	X	18.41262	295.20447	213.22066	5.64694	0.0571046	0.26690529	2.3890831	21	1 17.9	17.7
59300 1999 CW_{71}	15.9	X	24.69590	314.51689	247.31903	4.80460	0.1627304	0.27213793	2.3583595	21	4 14.0	17.9
59301 1999 CB_{73}	15.3	X	174.24638	168.87983	229.41290	7.20813	0.1141973	0.27361144	2.3498847	21	3 31.8	18.8
59302 1999 CF_{74}	16.3	X	110.20233	296.50669	168.24155	3.04170	0.1045403	0.27346462	2.3507257	21	4 15.6	19.2
59303 1999 CX_{75}	16.0	X	54.18490	205.96192	286.11278	3.33574	0.1286393	0.26927090	2.3750701	21	2 24.3	18.3
59304 1999 CJ_{76}	15.4	X	82.98939	259.62029	183.11537	2.04854	0.1721607	0.26854476	2.3793496	21	2 11.7	17.7
59305 1999 CD_{78}	14.8	X	5.57106	160.00307	262.51412	4.93132	0.1329696	0.29994110	2.2102703	21	—	—
59306 1999 CN_{79}	15.2	X	8.84347	138.33075	167.83839	6.68543	0.1565543	0.28291142	2.2981008	21	9 4.2	16.8
59307 1999 CT_{79}	15.0	X	197.83782	232.89377	249.47864	4.00450	0.0963210	0.28516093	2.2859990	21	8 19.8	18.2
59308 1999 CQ_{83}	14.5	X	119.95119	298.98609	113.17466	13.87104	0.1944863	0.22831087	2.6512560	21	3 11.9	18.5
59309 1999 CY_{84}	15.6	X	269.19418	46.16156	66.44228	4.90593	0.0933036	0.29524780	2.2336319	21	11 14.9	17.7
59310 1999 CA_{87}	15.6	X	136.60594	356.38734	82.25818	5.89552	0.1376499	0.27576938	2.3376098	21	4 19.4	18.8
59311 1999 CJ_{87}	15.6	X	346.94293	74.04532	46.16100	2.23859	0.1269754	0.26127778	2.4232659	21	—	—
59312 1999 CR_{87}	16.3	X	141.57895	322.13818	139.51327	2.69075	0.1703506	0.27856220	2.3219592	21	5 27.1	19.6
59313 1999 CF_{88}	14.3	X	287.31212	99.73654	42.88119	8.17714	0.1684748	0.21208318	2.7848292	21	12 24.8	17.5
59314 1999 CP_{88}	14.5	X	308.63813	192.90819	36.30218	10.80425	0.0746945	0.26843479	2.3799994	21	1 30.8	17.7
59315 1999 CC_{89}	15.6	X	10.10683	319.46286	116.98637	3.10550	0.1971541	0.26015455	2.4302359	21	—	—
59316 1999 CL_{89}	15.8	X	108.53348	168.95669	339.14755	4.17650	0.1046194	0.23450739	2.6043441	21	6 13.8	19.5
59317 1999 CN_{89}	16.0	X	302.07695	117.84538	106.74152	4.06220	0.1306340	0.26566741	2.3964987	21	1 5.5	19.4
59318 1999 CB_{90}	14.7	X	118.35354	120.76473	67.65293	8.42860	0.1128503	0.28351782	2.2948227	21	8 26.8	18.0
59319 1999 CT_{91}	15.2	X	125.91644	57.74353	331.00301	6.51727	0.0916812	0.26674593	2.3900346	21	1 22.6	18.2
59320 1999 CH_{92}	15.1	X	134.25786	355.83869	50.35913	6.86496	0.1056113	0.27077864	2.3662454	21	3 1.5	18.2
59321 1999 CF_{93}	15.8	X	315.55265	76.17141	100.45474	3.53760	0.1435529	0.26163651	2.4210503	21	—	—
59322 1999 CB_{95}	15.7	X	261.66862	145.69748	68.56325	3.39274	0.1426030	0.25868050	2.4394594	21	—	—
59323 1999 CS_{95}	15.3	X	132.00099	169.90001	357.67209	4.56360	0.1197867	0.28208057	2.3026111	21	8 11.3	18.6
59324 1999 CF_{97}	16.4	X	64.46149	41.70604	109.71865	3.31813	0.1099664	0.27233793	2.3572047	21	4 14.4	18.8
59325 1999 CZ_{97}	15.3	X	235.90635	26.58312	39.80911	3.20811	0.0961079	0.28405672	2.2919194	21	7 21.4	18.3
59326 1999 CO_{98}	15.4	X	313.02647	213.11178	346.95158	4.78956	0.1523157	0.26267415	2.4146702	21	—	—
59327 1999 CG_{99}	15.1	X	313.22559	159.73211	347.05880	7.79494	0.0821561	0.25786019	2.4446302	21	—	—
59328 1999 CM_{102}	14.7	X	72.27338	141.40640	298.37737	4.09645	0.1249504	0.22410113	2.6843554	21	1 25.7	17.9
59329 1999 CN_{102}	15.3	X	293.73684	152.58095	294.65335	4.56125	0.0537987	0.29523998	2.2336713	21	11 20.8	17.8
59330 1999 CW_{103}	15.2	X	112.40373	273.90561	308.48999	5.63447	0.0526027	0.28765408	2.2727711	21	9 22.8	18.3
59331 1999 CC_{104}	15.1	X	11.03384	121.45962	307.51739	1.94700	0.0619206	0.21270619	2.7793888	21	—	—
59332 1999 CQ_{104}	15.0	X	309.71684	282.49781	260.92279	2.81723	0.1323329	0.26179613	2.4200661	21	—	—
59333 1999 CM_{105}	15.7	X	64.81427	278.58489	272.92869	5.75661	0.1650689	0.27678217	2.3319038	21	6 22.5	18.1
59334 1999 CY_{105}	15.7	X	151.02016	265.71735	154.94444	6.07942	0.1994971	0.27593220	2.3366901	21	4 16.6	19.3
59335 1999 CR_{106}	14.9	X	128.16900	299.61136	208.78332	10.46491	0.1822366	0.23649914	2.5897013	21	7 13.0	19.2
59336 1999 CR_{110}	14.9	X	245.05728	197.46578	203.76478	6.32413	0.0984773	0.28279641	2.2987238	21	6 25.6	18.0
59337 1999 CT_{111}	14.0	X	135.66784	139.96652	281.64197	9.18221	0.0956090	0.18361135	3.0657473	21	3 24.3	18.8
59338 1999 CV_{111}	14.8	X	303.29808	271.91226	228.22847	6.59392	0.1540166	0.21266314	2.7797639	21	—	—
59339 1999 CT_{113}	15.7	X	187.95567	253.69117	236.46458	6.07649	0.1617563	0.28512102	2.2862123	21	8 15.5	19.3
59340 1999 CV_{116}	15.0	X	132.88257	228.62083	179.54832	13.15754	0.3020410	0.22874673	2.6478870	21	3 27.1	19.2
59341 1999 CY_{116}	15.4	X	283.89695	229.85026	153.95548	15.14404	0.1769360	0.24183135	2.5514926	21	7 10.6	18.9
59342 1999 CS_{118}	13.9	X	163.85224	344.93921	18.29896	25.40602	0.2286814	0.26583042	2.3955189	21	3 1.9	18.2
59343 1999 CA_{123}	15.7	X	320.63466	84.52803	62.26968	11.83501	0.1942471	0.26021070	2.4298863	21	—	—
59344 1999 CW_{123}	14.4	X	134.59769	52.06491	29.56181	13.64234	0.1205166	0.23070033	2.6329174	21	4 20.3	18.1
59345 1999 CK_{135}	15.0	X	141.89527	13.35434	334.25817	5.90206	0.1389073	0.26048170	2.4282007	21	—	—
59346 1999 CC_{137}	15.9	X	337.56139	206.02623	164.19706	2.55430	0.1076001	0.28993694	2.2608254	21	10 12.0	17.9
59347 1999 CX_{137}	16.0	X	254.73663	296.85829	151.77324	2.19656	0.1004145	0.28909356	2.2652203	21	9 16.3	18.5
59348 1999 CU_{141}	16.4	X	29.32470	98.51206	123.55689	2.40730	0.1509387	0.27657278	2.3330807	21	5 30.3	18.2
59349 1999 CN_{142}	16.5	X	14.26933	279.65604	330.17113	2.27840	0.1946542	0.27665662	2.3326093	21	6 13.2	18.1
59350 1999 CT_{142}	16.4	X	291.74381	79.62009	127.21164	3.25288	0.1534582	0.26174146	2.4204031	21	—	—
59351 1999 CQ_{145}	15.6	X	296.81873	122.38453	159.70437	3.07399	0.0403692	0.22655749	2.6649175	21	4 3.9	19.2
59352 1999 CH_{147}	15.3	X	110.23654	304.54180	341.13958	9.63785	0.1136059	0.29159769	2.2522331	21	12 21.5	18.8
59353 1999 CE_{151}	15.2	X	251.47203	12.49461	349.56731	6.65155	0.1169842	0.27595570	2.3365575	21	5 5.5	18.7
59354 1999 CF_{152}	15.9	X	182.01212	286.30418	323.44697	5.36525	0.1092091	0.25340225	2.4732180	21	—	—
59355 1999 CL_{153}	12.9	X	220.72988	320.98321	214.93028	0.81361	0.0872247	0.08231504	5.2337936	21	11 1.8	20.2
59356 1999 CX_{153}	15.3	X	277.78955	322.45201	98.97046	5.82201	0.1252171	0.28849076	2.2683746	21	9 9.8	17.8
59357 1999 CB_{154}	15.1	X	359.36300	231.51678	200.45721	4.91906	0.1411961	0.25585828	2.4573653	21	—	—
59358 1999 CL_{158}	6.9	X	54.48971	326.76161	120.18221	10.04768	0.2050666	0.00372881	41.1865922	21	3 5.9	22.7
59359 1999 DV	15.1	X	223.34590	337.69135	71.01512	4.03555	0.1402516	0.28000427	2.3139800	21	6 6.8	18.3
59360 1999 DY_{1}	15.0	X	324.58184	357.30634	42.93871	5.99468	0.1286328	0.29148374	2.2528200	21	11 2.5	16.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59361 1999 DW_2	16.0	X	145.91184	262.47381	191.45714	5.70795	0.0944706	0.27603966	2.3360837	21	5 14.9	19.2
59362 1999 DO_5	14.6	X	115.73649	292.14303	211.91254	14.51761	0.0489576	0.23390596	2.6088064	21	6 9.9	18.3
59363 1999 DP_7	15.2	X	349.53414	78.72969	71.32785	3.60617	0.1483349	0.26213046	2.4180080	21	—	—
59364 1999 DS_7	14.6	X	186.52658	2.77483	20.79739	7.11488	0.1148591	0.27123132	2.3636118	21	3 29.1	17.9
59365 1999 EM	15.8	X	39.90010	221.76835	322.84475	2.01736	0.1097356	0.27181453	2.3602297	21	4 16.9	17.9
59366 1999 EE_3	14.2	X	187.60697	264.35903	224.82293	9.72600	0.0509954	0.19129093	2.9831365	21	8 12.4	18.8
59367 1999 EQ_3	15.4	X	304.03934	208.46830	89.98720	3.17040	0.2180850	0.27100735	2.3649139	21	4 3.7	18.4
59368 1999 EP_4	14.6	X	118.37474	107.67417	179.33876	16.32700	0.2085039	0.24265800	2.5456946	21	12 25.5	19.2
59369 Chanco	14.8	X	93.88493	129.64443	82.73834	3.25255	0.1217893	0.19200420	2.9757440	21	8 22.9	19.2
59370 1999 EK_5	15.5	X	55.30321	66.36340	20.06555	5.22749	0.0558275	0.26138478	2.4226045	21	—	—
59371 1999 EY_6	14.4	X	105.71378	178.57636	177.42805	2.94827	0.1461771	0.25634017	2.4542847	21	—	—
59372 1999 EP_8	16.9	X	16.96605	68.02240	339.80161	1.83404	0.1670593	0.25625553	2.4548251	21	—	—
59373 1999 ET_{10}	15.1	X	107.24417	213.18884	187.32698	1.77747	0.2010312	0.26430757	2.4047115	21	1 28.5	17.7
59374 1999 EO_{12}	14.5	X	109.26307	145.48890	136.09849	8.26893	0.1866852	0.20026682	2.8933216	21	12 6.7	19.3
59375 1999 EQ_{13}	14.9	X	251.50265	322.21921	342.96415	9.37268	0.0645267	0.18131465	3.0915821	21	3 10.2	19.4
59376 1999 FK	14.9	X	216.13077	291.60994	58.69176	6.99259	0.1598314	0.26814312	2.3817250	21	3 19.2	18.7
59377 1999 FF_1	14.8	X	79.91707	285.48913	17.68728	12.59904	0.3145033	0.23961762	2.5671833	21	12 19.9	19.4
59378 1999 FV_3	14.6	X	274.05203	248.21307	177.16497	2.22837	0.0740969	0.19693797	2.9258344	21	9 5.9	18.5
59379 1999 FO_4	15.8	X	166.96581	244.95942	195.79243	2.45716	0.0645091	0.22854421	2.6494510	21	5 21.8	19.6
59380 1999 FA_5	15.4	X	74.11161	269.88338	24.70311	4.12359	0.1229473	0.24062158	2.5600376	21	11 15.6	18.9
59381 1999 FZ_5	15.8	X	29.43023	27.65620	149.08164	3.11753	0.1221616	0.27214132	2.3583398	21	3 17.5	17.7
59382 1999 FP_6	16.2	X	127.84790	6.43039	186.00367	2.04990	0.0997289	0.23593715	2.5938120	21	9 3.1	19.8
59383 1999 FY_9	15.3	X	268.68250	208.29117	24.80123	2.51814	0.1577819	0.25855307	2.4402609	21	—	—
59384 1999 FH_{10}	15.4	X	323.42571	149.20527	88.27883	7.34932	0.0306225	0.26870080	2.3784284	21	3 9.7	18.4
59385 1999 FH_{15}	15.3	X	43.87641	309.89559	19.79117	6.77510	0.0723407	0.24217334	2.5490899	21	11 15.3	18.6
59386 1999 FJ_{17}	14.8	X	0.99265	14.71600	192.57636	17.87786	0.2458249	0.22232745	2.6986133	21	3 1.5	17.5
59387 1999 FZ_{17}	15.5	X	163.57589	155.14696	55.60742	1.74159	0.1439163	0.28707989	2.2758006	21	11 8.4	18.9
59388 Monod	15.4	X	306.28094	204.87117	47.14219	4.13395	0.1196239	0.26547110	2.3976800	21	2 18.9	18.4
59389 Oskarvonmiller	15.8	X	255.36587	21.19114	193.47505	7.46907	0.1285366	0.25615255	2.4554829	21	—	—
59390 Habermas	14.3	X	331.53532	339.55136	27.58259	6.40907	0.1028222	0.19562405	2.9389208	21	9 13.9	17.8
59391 1999 FC_{22}	14.8	X	340.52485	3.14784	183.04427	3.29428	0.0292989	0.22157795	2.7046953	21	1 28.3	18.3
59392 1999 FD_{23}	15.8	X	120.25230	235.44757	241.25110	1.58553	0.1636255	0.27562789	2.3384097	21	5 22.7	19.0
59393 1999 FG_{23}	15.5	X	94.14322	228.67727	287.29087	3.35962	0.1521557	0.23190612	2.6237830	21	6 13.4	19.1
59394 1999 FZ_{23}	15.5	X	67.37074	325.26782	158.66029	3.20764	0.1364991	0.26930370	2.3748772	21	3 11.9	17.7
59395 1999 FM_{25}	15.6	X	304.73598	139.00267	42.53483	7.12924	0.1449141	0.25792451	2.4442239	21	—	—
59396 1999 FY_{25}	15.5	X	119.31438	72.00537	216.41474	4.82960	0.1775834	0.28961539	2.2624985	21	—	—
59397 1999 FT_{26}	15.3	X	288.45302	122.25530	93.90546	3.55469	0.1469527	0.25891225	2.4380035	21	—	—
59398 1999 FF_{29}	15.3	X	179.29962	127.03517	145.38553	3.67443	0.1857076	0.29487614	2.2355083	21	—	—
59399 1999 FK_{30}	14.4	X	96.12595	346.35435	23.99680	4.34072	0.1008162	0.25441285	2.4666641	21	—	—
59400 1999 FH_{31}	14.5	X	171.55500	241.37617	80.47945	6.99233	0.2387806	0.25508174	2.4623501	21	1 6.9	18.4
59401 1999 FC_{32}	14.7	X	333.82219	92.92443	53.03117	4.79621	0.1430790	0.25828042	2.4419779	21	—	—
59402 1999 FR_{32}	13.6	X	246.49868	305.38271	33.88507	8.41121	0.2712758	0.26598149	2.3946117	21	3 26.3	17.8
59403 1999 FV_{34}	14.6	X	20.28386	208.88197	29.04308	13.03153	0.1333505	0.22792432	2.6542527	21	6 4.1	17.6
59404 1999 FW_{34}	14.1	X	334.50922	101.44730	47.04746	9.76508	0.0968610	0.21349999	2.7724952	21	—	—
59405 1999 FA_{35}	14.7	X	155.54792	296.78433	208.10424	14.17857	0.0562010	0.23438305	2.6052651	21	7 27.6	18.7
59406 1999 FM_{35}	15.4	X	252.72748	198.59132	219.69756	2.09194	0.1468645	0.28531493	2.2851763	21	7 22.9	18.5
59407 1999 FC_{38}	14.7	X	198.30440	172.05158	242.44108	5.94651	0.1263825	0.27761585	2.3272331	21	5 19.8	18.1
59408 1999 FL_{40}	15.6	X	7.37754	176.07471	295.35397	2.05749	0.1970352	0.26150633	2.4218537	21	—	—
59409 1999 FX_{42}	16.2	X	59.51894	337.98917	146.97360	2.12840	0.1202201	0.26816841	2.3815752	21	2 25.1	18.2
59410 1999 FH_{50}	15.3	X	188.83800	321.21766	347.31002	6.16030	0.1315638	0.25959669	2.4337163	21	—	—
59411 1999 FX_{50}	14.5	X	331.48189	287.50266	324.91318	5.44786	0.0946814	0.27029477	2.3690685	21	3 26.1	17.3
59412 1999 FU_{51}	15.5	X	94.19807	147.90218	322.83607	2.25410	0.1172634	0.27055879	2.3675270	21	4 1.5	18.2
59413 1999 FN_{58}	15.6	X	51.19854	241.56846	237.15999	5.40745	0.0931707	0.26560850	2.3968530	21	1 28.6	18.1
59414 1999 FP_{62}	15.9	X	287.28168	91.48508	141.29843	3.00661	0.1323743	0.26103589	2.4247626	21	—	—
59415 1999 GJ	15.6	X	210.93389	264.26479	8.49547	2.40407	0.1615059	0.25594205	2.4568291	21	—	—
59416 1999 GM	15.8	X	11.75582	168.13776	339.82687	2.13050	0.1680619	0.26387889	2.4073151	21	—	—
59417 Giocasilli	15.2	X	299.24636	85.34933	183.46074	7.14299	0.0981756	0.26605675	2.3941601	21	3 4.1	18.4
59418 1999 GJ_1	14.9	X	200.47842	125.83237	79.99225	6.88350	0.0681871	0.24594196	2.5229828	21	12 11.2	18.5
59419 Prešov	15.2	X	110.89930	183.61919	45.28783	9.33682	0.1109149	0.23795055	2.5791597	21	10 6.4	19.0
59420 1999 GR_2	15.2	X	45.00229	57.06007	60.15754	3.48725	0.1254176	0.26430365	2.4047353	21	1 19.1	17.4
59421 1999 GV_3	15.3	X	239.02798	336.85504	157.53156	2.46646	0.1824523	0.20191042	2.8775987	21	10 7.2	19.5
59422 1999 GD_4	14.4	X	258.64414	34.28706	228.50806	13.82861	0.1073074	0.25790981	2.4443168	21	1 7.6	18.2
59423 1999 GE_4	14.3	X	184.18566	212.16285	233.50936	12.44009	0.1100113	0.22881935	2.6473268	21	6 16.5	18.4
59424 1999 GP_4	14.5	X	66.56181	199.26527	56.18502	9.79733	0.1046131	0.23457378	2.6038527	21	9 19.0	18.1
59425 Xuyangsheng	16.1	X	338.52835	49.75916	154.53110	1.72458	0.1058449	0.26470827	2.4022841	21	1 29.9	18.8
59426 1999 GS_5	15.2	X	33.46749	98.83370	34.66695	3.15385	0.1236817	0.26397345	2.4067402	21	1 21.5	17.5
59427 1999 GM_6	15.1	X	56.51320	33.63591	87.60230	5.84526	0.1032067	0.26453343	2.4033425	21	2 15.9	17.5
59428 1999 GK_7	16.0	X	335.68745	331.59178	222.07122	2.34701	0.1440998	0.26251585	2.4156408	21	1 5.8	19.1
59429 1999 GK_8	15.4	X	109.98335	359.01343	258.98837	2.10587	0.1718437	0.24053816	2.5606294	21	11 11.9	19.6
59430 1999 GT_{12}	14.3	X	72.57733	273.91017	201.12753	8.33311	0.0537694	0.17594767	3.1541357	21	3 11.6	18.6
59431 1999 GG_{13}	15.8	X	149.48642	25.15551	217.13723	4.52546	0.1950758	0.24297052	2.5435113	21	11 28.4	20.1
59432 1999 GW_{14}	15.3	X	147.24169	198.81033	196.52219	2.51738	0.1006589	0.21940110	2.7225562	21	3 5.3	19.3
59433 1999 GH_{17}	15.4	X	334.69790	100.01768	177.92574	6.23915	0.2960566	0.26958897	2.3732016	21	4 7.5	17.4
59434 1999 GR_{18}	14.9	X	148.70434	81.86542	67.53011	12.45697	0.2144364	0.23603506	2.5930947	21	8 10.1	19.5
59435 1999 GE_{20}	14.7	X	78.61354	196.29995	69.85735	8.69465	0.1654013	0.23716069	2.5848831	21	10 24.3	18.5
59436 1999 GE_{21}	14.7	X	190.61019	246.18920	49.92091	15.35360	0.1837063	0.25371225	2.4712030	21	—	—
59437 1999 GY_{21}	14.9	X	357.08369	102.45351	55.15628	8.21462	0.0263431	0.21612549	2.7499959	21	1 17.8	18.6
59438 1999 GA_{22}	15.3	X	156.52319	112.50093	42.09975	9.65484	0.1163463	0.23602571	2.5931631	21	8 21.7	19.4
59439 1999 GS_{23}	14.2	X	287.85747	283.30689	10.98046	12.66047	0.1680631	0.22380221	2.6867451	21	3 22.2	18.0
59440 1999 GL_{24}	15.9	X	314.11510	112.50022	84.15148	3.14098	0.1473698	0.26079159	2.4262767	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59441 1999 GZ_{29}	14.7	X	33.38801	272.88819	37.41937	4.49007	0.1881651	0.28111058	2.3079050	21	10 31.9	17.2
59442 1999 GS_{30}	15.4	X	69.80613	357.16593	107.83862	3.36663	0.1429242	0.26471283	2.4022566	21	2 18.9	17.6
59443 1999 GV_{30}	15.0	X	321.11367	236.34509	42.27703	12.81560	0.1444884	0.22445908	2.6815008	21	4 19.1	18.2
59444 1999 GY_{30}	16.0	X	225.97429	85.11360	162.05814	4.79956	0.1248683	0.29819666	2.2188820	21	—	—
59445 1999 GJ_{32}	15.8	X	53.80701	15.97923	196.26614	10.83204	0.1777438	0.22896422	2.6462100	21	7 5.8	19.1
59446 1999 GO_{32}	15.6	X	32.44213	88.80625	38.32833	2.64398	0.1555430	0.26277310	2.4140640	21	1 8.1	17.6
59447 1999 GV_{32}	15.2	X	332.82976	4.79899	157.26526	14.25748	0.1215992	0.25765996	2.4458966	21	—	—
59448 1999 GC_{33}	14.9	X	166.18963	293.71087	62.78706	7.63546	0.1295022	0.26021519	2.4298583	21	2 5.5	18.5
59449 1999 GH_{33}	14.5	X	20.69551	115.24290	202.21264	13.27328	0.2074875	0.23501039	2.6006266	21	10 15.9	17.0
59450 1999 GW_{33}	15.8	X	199.26421	63.70878	85.18752	4.30808	0.1193431	0.28453721	2.2893385	21	9 29.3	19.0
59451 1999 GX_{33}	15.0	X	46.05140	254.07791	34.86621	11.96932	0.2471606	0.23392037	2.6086993	21	10 23.4	18.1
59452 1999 GS_{34}	13.7	X	4.20112	196.94865	321.68388	4.54175	0.1163128	0.17429329	3.1740634	21	1 29.9	17.5
59453 1999 GN_{35}	15.2	X	181.11247	172.76469	20.73355	4.40926	0.0990348	0.24352432	2.5396536	21	10 31.3	19.0
59454 1999 GO_{35}	15.6	X	348.21698	317.99330	204.45593	8.93689	0.1337731	0.26096285	2.4252151	21	—	—
59455 1999 GK_{36}	15.0	X	80.98250	91.20363	14.08844	2.52356	0.1593306	0.26611418	2.3938157	21	3 12.9	17.4
59456 1999 GJ_{38}	15.9	X	152.09045	164.01866	71.33904	4.86104	0.1931257	0.28885685	2.2664576	21	11 27.6	19.5
59457 1999 GF_{39}	14.3	X	278.87520	31.22104	33.71619	15.78831	0.1112878	0.24200318	2.5502847	21	9 19.0	17.6
59458 1999 GM_{41}	15.0	X	268.46493	208.04705	88.85121	10.17202	0.2009426	0.26467653	2.4024762	21	2 27.6	18.9
59459 1999 GV_{42}	14.0	X	175.72549	292.44586	165.73193	11.07307	0.0672448	0.18762122	3.0219092	21	6 24.3	18.8
59460 1999 GR_{43}	15.4	X	250.34753	165.73031	106.95287	7.89236	0.1345028	0.25980033	2.4324444	21	1 12.6	19.1
59461 1999 GO_{45}	14.2	X	178.91921	15.01033	57.65429	15.88036	0.0900984	0.22901081	2.6458510	21	5 24.5	18.2
59462 1999 GQ_{45}	14.8	X	227.53266	304.90889	192.18417	12.34437	0.1014020	0.24259996	2.5461006	21	10 11.9	18.4
59463 1999 GV_{45}	14.1	X	309.01839	282.42815	141.48406	10.29913	0.1455753	0.24366977	2.5386429	21	10 30.7	16.9
59464 1999 GM_{50}	15.5	X	256.45223	144.24031	145.70667	5.21146	0.2484114	0.26191835	2.4193132	21	2 1.5	19.6
59465 1999 GS_{51}	13.9	X	294.99304	18.41092	204.43198	21.77547	0.1344423	0.17131561	3.2107372	21	1 9.6	19.0
59466 1999 GE_{54}	16.4	X	288.28552	43.75733	160.71586	1.40859	0.1289664	0.25839903	2.4412306	21	—	—
59467 1999 GQ_{57}	13.8	X	40.30572	10.86217	198.89805	10.45733	0.0823170	0.18508543	3.0494480	21	5 31.7	17.8
59468 1999 GH_{61}	15.6	X	27.88978	311.67432	212.95416	9.51218	0.2069855	0.22181188	2.7027934	21	3 3.6	18.2
59469 1999 GJ_{61}	15.5	X	62.28996	185.70799	30.40757	15.73321	0.2563859	0.22940275	2.6428365	21	8 16.8	19.3
59470 Paveltoufar	15.3	X	172.10466	177.62103	353.40869	3.61865	0.0171914	0.23875444	2.5733671	21	9 25.3	18.6
59471 1999 HP	15.8	X	106.38133	33.07260	228.16018	1.33346	0.1385844	0.23939171	2.5687982	21	11 10.4	19.8
59472 1999 HX	14.1	X	257.81510	79.49041	227.06832	29.15990	0.3759710	0.21458607	2.7631325	21	2 10.3	19.8
59473 1999 HT_{1}	14.3	X	276.79110	267.61953	95.32189	5.56319	0.1446794	0.22812098	2.6527271	21	6 8.4	17.8
59474 1999 HK_{2}	14.9	X	145.43147	185.89468	51.90827	15.01937	0.2131503	0.24033152	2.5620970	21	11 18.6	19.3
59475 1999 HN_{2}	13.9	X	134.01926	283.30132	64.47531	9.29716	0.0518081	0.25496064	2.4631298	21	—	—
59476 1999 HQ_{2}	15.7	X	222.81678	56.82363	212.33747	4.31599	0.1160925	0.29959620	2.2119663	21	—	—
59477 1999 HP_{3}	13.8	X	94.19294	56.12278	99.19551	10.26801	0.0826857	0.18534585	3.0465909	21	6 5.0	18.0
59478 1999 HR_{4}	14.8	X	306.34658	281.89040	50.02595	4.40843	0.2277495	0.22647143	2.6655926	21	5 23.9	18.1
59479 1999 HX_{5}	15.0	X	197.93183	309.28591	138.07109	14.03484	0.1091953	0.22964679	2.6409639	21	7 3.8	19.2
59480 1999 HJ_{7}	13.6	X	225.05960	62.70734	43.86653	10.49654	0.0648009	0.19178670	2.9779934	21	9 4.4	18.1
59481 1999 HX_{8}	15.4	X	196.65724	323.67513	243.47966	1.03571	0.0447754	0.24655054	2.5188293	21	12 11.1	18.9
59482 1999 HP_{10}	15.3	X	287.91860	328.30459	203.89302	7.32229	0.1538897	0.20989969	2.8041088	21	—	—
59483 1999 HN_{11}	14.8	X	357.97089	99.62781	208.68992	11.41182	0.2742665	0.23072134	2.6327576	21	8 8.9	16.9
59484 1999 JJ	15.3	X	82.86168	2.43690	248.50014	18.19220	0.0465505	0.37036720	1.9203529	21	9 27.5	17.8
59485 1999 JR	15.0	X	57.48472	87.15922	139.00536	13.72528	0.1537247	0.22942033	2.6427015	21	7 28.8	18.2
59486 1999 JV	15.0	X	118.37801	89.19461	118.10914	14.88659	0.0639372	0.23492983	2.6012211	21	9 14.1	18.9
59487 1999 JZ_{1}	14.5	X	330.91734	256.83210	152.75879	7.31534	0.1488265	0.24439714	2.5336034	21	11 19.9	17.0
59488 1999 JE_{2}	14.8	X	86.98676	129.42348	182.83290	15.22716	0.2351610	0.24250723	2.5467497	21	12 30.6	19.3
59489 1999 JQ_{2}	14.1	X	171.25636	302.88854	82.15376	7.37107	0.1438154	0.26538143	2.3982200	21	3 20.6	17.8
59490 1999 JD_{4}	14.3	X	347.55194	76.94039	236.40913	22.37117	0.3034537	0.27232898	2.3572563	21	7 9.2	16.0
59491 1999 JO_{4}	14.8	X	73.08507	60.71636	238.60587	11.70682	0.2600817	0.28176158	2.3043487	21	12 11.7	18.5
59492 1999 JU_{4}	15.0	X	19.66313	38.78413	225.89267	15.29894	0.2016117	0.22776480	2.6554919	21	7 18.1	17.9
59493 1999 JG_{5}	15.2	X	231.98011	201.85708	227.81053	21.50027	0.0692864	0.36498013	1.9392028	21	7 17.4	18.0
59494 1999 JN_{5}	15.2	X	79.94473	244.67256	66.10913	19.44322	0.1963236	0.23938561	2.5688418	21	12 18.4	19.3
59495 1999 JB_{6}	14.5	X	246.28682	148.67564	57.80158	8.99235	0.0984569	0.20889053	2.8131327	21	—	—
59496 1999 JY_{6}	15.5	X	240.60106	112.13528	146.12044	6.04626	0.0960149	0.25549233	2.4597113	21	—	—
59497 1999 JJ_{7}	15.2	X	108.20203	328.48693	159.31982	9.86158	0.0397755	0.22454599	2.6808089	21	5 11.3	19.0
59498 1999 JG_{8}	14.2	X	312.32078	331.36665	201.15566	24.38141	0.0999225	0.25373970	2.4710248	21	—	—
59499 1999 JP_{8}	14.6	X	7.14013	241.11110	59.06591	12.88444	0.1335382	0.23112040	2.6297262	21	8 21.9	17.7
59500 1999 JT_{8}	15.5	X	114.63241	41.45689	244.83342	15.23001	0.1957796	0.24061831	2.5600608	21	12 20.4	19.9
59501 1999 JB_{9}	14.4	X	254.90532	144.71822	179.08897	11.66199	0.1214033	0.21973914	2.7197633	21	3 28.1	18.3
59502 1999 JR_{9}	15.2	X	139.18459	202.31940	58.15777	7.77265	0.2000244	0.24366860	2.5386510	21	12 10.8	19.6
59503 1999 JU_{9}	14.6	X	314.47682	283.94375	173.00635	8.94327	0.0722130	0.24615882	2.5215009	21	12 25.5	17.6
59504 1999 JY_{9}	14.0	X	328.41180	178.12296	101.95516	10.56831	0.0527448	0.18056583	3.1001236	21	5 19.2	18.2
59505 1999 JW_{10}	14.5	X	18.91386	13.80696	84.39419	7.32215	0.1140366	0.21299096	2.7769109	21	—	
59506 1999 JD_{11}	14.6	X	246.31352	350.39630	185.47934	3.46969	0.0677890	0.24638245	2.5199748	21	12 30.2	17.9
59507 1999 JW_{12}	14.7	X	295.28451	176.73917	185.33944	15.29285	0.1314107	0.23051362	2.6343390	21	7 3.4	18.4
59508 1999 JP_{13}	15.2	X	302.40062	335.66106	75.44650	9.52441	0.1143031	0.28175257	2.3043978	21	10 10.8	17.6
59509 1999 JR_{13}	15.3	X	80.80659	207.42513	48.73276	14.07120	0.1142877	0.23446891	2.6046290	21	10 9.6	19.1
59510 1999 JY_{13}	14.9	X	29.85754	106.77141	237.39537	28.61239	0.1306235	0.23665335	2.5885761	21	11 24.3	17.9
59511 1999 JP_{14}	13.4	X	322.31104	147.69924	215.37513	32.51990	0.2248174	0.23340373	2.6125475	21	7 28.8	17.0
59512 1999 JW_{14}	14.9	X	155.91978	266.30015	209.78027	14.73764	0.0691246	0.22867481	2.6484422	21	6 23.2	19.0
59513 1999 JX_{14}	14.6	X	232.09326	204.36721	124.95537	6.99950	0.0484922	0.21765239	2.7371195	21	3 17.9	18.5
59514 1999 JY_{14}	15.4	X	317.19136	189.42632	153.27219	5.14351	0.2066320	0.31780013	2.1266695	21	6 30.2	17.0
59515 1999 JP_{15}	14.7	X	285.65788	144.78102	159.85529	11.92061	0.1167450	0.22066332	2.7121641	21	4 10.7	18.5
59516 1999 JX_{15}	14.5	X	50.92329	222.84905	47.48293	14.81446	0.1235132	0.23154692	2.6264958	21	9 22.9	18.1
59517 1999 JA_{16}	14.4	X	177.67553	182.39526	52.54788	5.65804	0.1147202	0.24480633	2.5307794	21	12 17.7	18.2
59518 1999 JX_{17}	14.2	X	158.92504	66.56899	238.83332	11.48293	0.0849017	0.25200569	2.4823470	21	—	—
59519 1999 JK_{18}	15.5	X	174.38308	331.22928	232.97626	7.01175	0.1604608	0.24295581	2.5436139	21	11 4.1	19.4
59520 1999 JY_{18}	15.1	X	10.32950	24.49269	269.50634	4.88054	0.1343774	0.27569888	2.3380083	21	8 13.1	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59521 1999 JS_{20}	15.4	X	284.55145	94.25315	210.47858	5.46839	0.1189893	0.31104951	2.1573289	21	3 24.9	18.2
59522 1999 JR_{21}	14.1	X	266.79467	69.06652	258.48552	5.58128	0.1398813	0.26678103	2.3898249	21	4 4.9	17.7
59523 1999 JM_{22}	14.2	X	14.23986	78.48259	231.11592	12.92329	0.0857696	0.23382652	2.6093973	21	8 31.4	17.6
59524 1999 JU_{22}	14.5	X	152.04463	349.79193	223.16308	12.74428	0.0353953	0.24040976	2.5615410	21	10 24.8	18.0
59525 1999 JE_{23}	13.9	X	42.91810	291.08019	215.08744	23.42406	0.2370240	0.17725276	3.1386343	21	3 23.9	17.5
59526 1999 JS_{23}	14.2	X	310.30423	102.18647	217.66073	8.35469	0.2055524	0.22575074	2.6712627	21	5 17.9	17.3
59527 1999 JE_{24}	13.8	X	188.02587	355.60133	40.30165	13.74502	0.1638206	0.22261268	2.6963077	21	4 20.9	18.2
59528 1999 JK_{24}	14.3	X	217.92685	286.81190	33.44452	9.34859	0.1618340	0.21463051	2.7627510	21	2 18.9	18.9
59529 1999 JT_{24}	14.5	X	281.97402	257.03494	30.62607	14.83259	0.1609413	0.21873586	2.7280734	21	3 13.9	18.7
59530 1999 JU_{24}	12.8	X	48.69933	143.46528	25.23548	11.84615	0.0355688	0.17772983	3.1330151	21	4 15.5	17.1
59531 1999 JW_{25}	14.3	X	62.73439	278.45819	40.14375	8.05305	0.2103427	0.23923294	2.5699345	21	12 13.3	18.1
59532 1999 JD_{26}	15.3	X	12.79151	210.42783	44.61736	15.46357	0.0963042	0.22742858	2.6581084	21	6 14.6	18.6
59533 1999 JT_{26}	15.3	X	158.31776	153.88765	60.59717	1.58811	0.0610935	0.24116433	2.5561951	21	11 4.0	18.8
59534 1999 JH_{27}	15.9	X	273.26138	218.60664	89.40518	2.49876	0.1705032	0.26436537	2.4043610	21	3 18.4	19.3
59535 1999 JQ_{27}	14.3	X	73.15552	44.28597	217.90575	13.11500	0.0642551	0.23553939	2.5967313	21	9 21.6	18.0
59536 1999 JP_{28}	15.6	X	130.95014	287.13398	254.35985	1.19994	0.1279688	0.23412573	2.6071736	21	8 25.0	19.4
59537 1999 JQ_{29}	15.7	X	147.08831	208.51042	21.75692	5.01745	0.0860986	0.28593488	2.2818721	21	11 16.6	18.9
59538 1999 JR_{29}	15.5	X	96.03592	142.06487	89.97035	3.20245	0.1035483	0.23514231	2.5996539	21	9 21.1	19.2
59539 1999 JU_{30}	15.6	X	83.70241	296.98014	308.09533	3.02774	0.2131981	0.23413331	2.6071174	21	10 3.7	19.4
59540 1999 JC_{31}	15.0	X	287.90584	209.42186	8.60709	1.61503	0.0231034	0.25710139	2.4494379	21	—	—
59541 1999 JE_{31}	14.7	X	29.51813	105.93264	235.84017	1.85718	0.3290767	0.23642364	2.5902526	21	12 21.5	18.1
59542 1999 JG_{31}	14.8	X	347.50189	104.48313	225.39832	9.78145	0.2684708	0.23022304	2.6365552	21	8 13.4	16.9
59543 1999 JU_{31}	15.2	X	132.40124	172.78920	64.57210	3.38044	0.1013968	0.24011912	2.5636076	21	11 5.6	18.9
59544 1999 JH_{32}	14.9	X	118.10677	46.35184	202.32892	8.34932	0.1206514	0.23938116	2.5688736	21	11 6.3	18.7
59545 1999 JZ_{32}	15.0	X	84.71572	221.36967	63.70695	3.11510	0.1807691	0.23832879	2.5764301	21	11 21.9	19.0
59546 1999 JV_{34}	14.8	X	151.31349	127.99615	232.66310	14.33639	0.3045617	0.25384844	2.4703191	21	2 5.0	19.2
59547 1999 JS_{35}	14.8	X	172.96346	320.31372	200.31437	7.30693	0.1355813	0.23705860	2.5856252	21	9 8.4	18.9
59548 1999 JU_{35}	14.9	X	40.18238	256.68023	58.85123	15.48170	0.1181042	0.23673501	2.5879809	21	11 2.5	18.2
59549 1999 JE_{36}	15.1	X	333.75214	321.05836	211.95422	11.73804	0.0560910	0.21297477	2.7770516	21	—	—
59550 1999 JH_{37}	14.7	X	225.84892	213.61792	257.92813	2.48568	0.0757835	0.23670351	2.5882104	21	9 6.9	18.3
59551 1999 JL_{37}	14.1	X	83.46381	72.82403	232.03366	12.47307	0.1661002	0.24019746	2.5630501	21	12 13.4	18.0
59552 1999 JM_{38}	14.6	X	163.00708	27.99492	229.62231	13.94822	0.1375305	0.24551795	2.5258868	21	12 28.4	18.7
59553 1999 JP_{40}	15.3	X	130.26130	100.52009	216.68956	10.73276	0.1283422	0.24770034	2.5110285	21	—	—
59554 1999 JW_{40}	15.3	X	139.52368	199.44983	61.28466	14.40463	0.1171640	0.24290654	2.5439578	21	12 10.4	19.3
59555 1999 JE_{41}	15.1	X	99.13708	199.55347	118.79653	4.68921	0.2070926	0.24307425	2.5427876	21	—	—
59556 1999 JF_{41}	14.8	X	138.18695	208.20937	71.04390	12.11477	0.0328946	0.24551108	2.5259339	21	—	—
59557 1999 JH_{41}	15.5	X	341.37346	179.63405	73.47317	10.72776	0.1584278	0.22234670	2.6984576	21	4 18.4	18.6
59558 1999 JR_{41}	14.8	X	355.76379	118.65311	209.21005	10.96515	0.2540124	0.23047573	2.6346277	21	9 5.4	16.9
59559 1999 JD_{42}	15.0	X	273.39762	69.01868	53.99713	12.85260	0.1056772	0.24472403	2.5313467	21	11 22.3	17.8
59560 1999 JG_{42}	14.7	X	127.74616	127.36561	220.33502	4.73274	0.1239483	0.20651940	2.8346242	21	—	—
59561 1999 JQ_{42}	16.2	X	124.96089	35.86355	237.76740	2.45801	0.2024488	0.24165530	2.5527317	21	12 15.1	20.4
59562 1999 JK_{43}	14.3	X	26.42563	22.05686	241.68184	11.55487	0.2127343	0.22824959	2.6517305	21	8 2.3	17.2
59563 1999 JO_{45}	15.5	X	152.82397	217.45391	67.77308	6.45319	0.0845648	0.24723649	2.5141682	21	—	—
59564 1999 JR_{46}	14.6	X	353.02034	74.06835	71.03759	6.51864	0.0694866	0.25630341	2.4545193	21	—	—
59565 1999 JT_{46}	14.2	X	168.89631	82.30034	74.43040	5.20883	0.0879232	0.23491783	2.6013097	21	9 4.2	18.1
59566 1999 JU_{46}	15.4	X	232.42657	354.26486	179.23192	2.52871	0.1108690	0.24540667	2.5266503	21	12 2.9	18.6
59567 1999 JU_{47}	15.7	X	85.62198	259.81975	8.88612	2.97944	0.1794583	0.23625900	2.5914558	21	11 1.5	19.7
59568 1999 JW_{47}	14.9	X	67.20245	260.55452	22.11473	3.63048	0.0895042	0.23603858	2.5930689	21	10 18.3	18.3
59569 1999 JJ_{48}	14.4	X	57.15250	0.91984	269.01035	6.03555	0.0922380	0.27770522	2.3267338	21	9 19.2	17.3
59570 1999 JX_{48}	14.4	X	136.52464	64.98095	237.13730	4.86592	0.1231783	0.24641135	2.5197778	21	—	—
59571 1999 JY_{48}	14.8	X	251.50988	283.15858	40.09231	2.34657	0.1987041	0.21734742	2.7396793	21	3 18.2	19.1
59572 1999 JA_{49}	15.0	X	75.44894	75.18773	235.57497	6.60756	0.1903757	0.23909830	2.5708992	21	12 15.1	18.8
59573 1999 JK_{49}	14.9	X	50.52696	105.60533	226.19358	7.79963	0.1014943	0.23958665	2.5674045	21	12 2.6	18.2
59574 1999 JE_{50}	14.6	X	271.30684	130.34587	164.50892	5.00508	0.0918764	0.21808486	2.7334997	21	3 13.0	18.5
59575 1999 JB_{51}	14.4	X	323.63756	119.28397	214.49409	11.53969	0.1451314	0.22826345	2.6516232	21	7 7.2	17.5
59576 1999 JM_{51}	15.1	X	49.76966	176.98192	61.05546	12.89884	0.0350369	0.22904817	2.6455634	21	7 17.9	18.7
59577 1999 JS_{51}	15.1	X	343.17585	241.90641	204.90356	2.21055	0.0175510	0.29140658	2.2532176	21	—	—
59578 1999 JA_{53}	14.4	X	65.39189	299.37603	223.99887	15.36482	0.1495877	0.17897405	3.1184779	21	5 17.1	18.3
59579 1999 JO_{53}	14.3	X	7.43329	268.75543	77.43870	12.76740	0.1944324	0.23443854	2.6048539	21	11 4.2	17.0
59580 1999 JC_{54}	15.7	X	80.84684	201.76974	69.22932	3.37821	0.1425309	0.23583872	2.5945337	21	10 27.7	19.4
59581 1999 JD_{54}	14.5	X	75.38745	14.91932	231.85129	12.66094	0.1248554	0.23267149	2.6180259	21	9 10.8	18.4
59582 1999 JE_{55}	14.5	X	338.19070	359.62145	217.31133	12.37194	0.0832765	0.21771183	2.7366213	21	2 23.8	18.3
59583 1999 JM_{55}	15.5	X	205.55122	83.80394	80.47685	12.53603	0.2366489	0.24237863	2.5476504	21	10 15.9	19.9
59584 1999 JT_{55}	15.1	X	40.37028	112.90881	174.93490	5.76289	0.1295752	0.23226146	2.6211062	21	9 24.2	18.0
59585 1999 JV_{55}	14.1	X	156.10903	42.27159	33.90413	13.06418	0.1576092	0.22353477	2.6888877	21	5 7.9	18.3
59586 1999 JB_{56}	14.8	X	234.68226	104.54510	18.56131	5.49136	0.1841361	0.24015844	2.5633278	21	9 22.1	18.6
59587 1999 JJ_{56}	14.5	X	221.43640	112.99416	210.69836	12.32417	0.2028243	0.21342412	2.7731523	21	2 17.3	19.4
59588 1999 JL_{56}	15.0	X	246.95771	126.63046	164.12956	3.95388	0.1397940	0.21387129	2.7692855	21	2 6.2	19.3
59589 1999 JU_{56}	14.8	X	70.61664	166.23458	74.33894	8.59219	0.0724944	0.23165642	2.6256680	21	8 28.8	18.4
59590 1999 JL_{57}	14.7	X	115.29831	211.78709	83.66459	6.63644	0.2549031	0.24152731	2.5536334	21	—	—
59591 1999 JR_{58}	14.8	X	256.69672	55.14066	225.49456	7.00478	0.2083814	0.21312274	2.7757660	21	1 28.2	19.5
59592 1999 JW_{58}	14.6	X	89.13144	287.16709	225.20452	12.74373	0.1193070	0.22462922	2.6801466	21	5 28.5	18.1
59593 1999 JY_{58}	15.2	X	32.56173	192.44414	93.26892	4.28396	0.1384425	0.23088257	2.6315318	21	9 12.1	18.2
59594 1999 JG_{59}	14.7	X	245.47240	216.34153	87.08464	10.43273	0.1431610	0.21454949	2.7634465	21	2 24.2	19.2
59595 1999 JK_{60}	14.4	X	208.09665	286.94698	337.05207	4.18884	0.1358812	0.29507395	2.2345091	21	—	—
59596 1999 JR_{60}	14.8	X	99.26403	34.30797	203.74064	4.34177	0.2036277	0.23464717	2.6033097	21	10 10.5	18.9
59597 1999 JY_{60}	15.3	X	222.88062	185.29774	90.84866	6.78379	0.1520986	0.29796157	2.2200489	21	—	—
59598 1999 JL_{61}	15.4	X	148.03706	99.96735	200.30138	5.22465	0.2343897	0.24576985	2.5241606	21	—	—
59599 1999 JM_{62}	14.4	X	243.01999	269.05072	222.96813	13.68074	0.0552592	0.23962044	2.5671632	21	10 29.9	17.8
59600 1999 JX_{62}	14.4	X	253.05538	226.89972	110.51630	6.01782	0.0501129	0.22019703	2.7159915	21	4 21.9	18.3

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59601 1999 JL_{63}	16.3	X	130.97796	121.94631	112.10509	2.55124	0.2050668	0.28288768	2.2982293	21	11 8.3	20.0
59602 1999 JW_{63}	14.3	X	292.68546	77.30098	215.61927	12.07455	0.1458959	0.21870167	2.7283577	21	3 25.7	18.3
59603 1999 JX_{63}	14.0	X	212.31129	151.15626	164.81534	6.45457	0.0562320	0.21209555	2.7847209	21	2 4.4	18.2
59604 1999 JQ_{64}	15.3	X	53.87815	228.12068	86.53357	14.35394	0.1671389	0.23616949	2.5921106	21	11 25.6	18.9
59605 1999 JZ_{64}	15.1	X	147.11197	184.42646	77.01040	6.06542	0.0946545	0.28710958	2.2756437	21	12 27.9	18.3
59606 1999 JK_{65}	15.2	X	345.91608	57.17409	57.14743	11.33527	0.2106099	0.25638232	2.4540157	21	—	—
59607 1999 JV_{65}	14.4	X	234.56519	107.15717	196.59417	3.14137	0.0281952	0.26194890	2.4191251	21	2 6.7	17.5
59608 1999 JQ_{66}	14.7	X	129.75748	66.73015	190.90758	3.98895	0.0958898	0.24269229	2.5454548	21	11 28.2	18.5
59609 1999 JB_{67}	15.3	X	158.49749	114.61430	122.04904	5.56570	0.1033434	0.24416470	2.5352111	21	12 2.1	19.1
59610 1999 JE_{67}	15.5	X	88.87723	129.85496	117.80176	4.04188	0.1817278	0.23592280	2.5939172	21	10 12.5	19.4
59611 1999 JY_{67}	15.0	X	32.98352	91.99964	197.47507	12.74546	0.1697538	0.23305500	2.6151530	21	9 18.8	18.0
59612 1999 JZ_{67}	15.4	X	129.14781	61.29911	108.11180	4.58373	0.1309932	0.27787743	2.3257723	21	8 10.8	18.7
59613 1999 JS_{68}	14.7	X	124.95643	217.76255	189.76029	5.62545	0.0866261	0.26116262	2.4239782	21	2 12.8	17.9
59614 1999 JR_{69}	15.4	X	89.78015	81.74413	129.40203	3.83470	0.1246831	0.23267591	2.6179927	21	8 18.1	18.9
59615 1999 JT_{69}	14.8	X	94.12064	131.86404	122.25923	6.26299	0.1463876	0.23725046	2.5842311	21	10 23.4	18.7
59616 1999 JY_{69}	14.4	X	189.62804	277.72553	191.50215	12.22995	0.1220962	0.23371709	2.6102117	21	7 20.5	18.7
59617 1999 JM_{70}	15.5	X	128.15547	103.45611	182.38850	4.66127	0.1494063	0.24439631	2.5336092	21	12 31.3	19.7
59618 1999 JR_{70}	15.4	X	51.21016	174.19883	121.79367	4.74991	0.1485564	0.23599377	2.5933971	21	10 26.2	18.7
59619 1999 JG_{71}	15.5	X	129.36233	145.45868	150.61188	5.95136	0.2302160	0.24478213	2.5309462	21	—	—
59620 1999 JY_{71}	16.1	X	275.30333	114.02602	89.30274	5.16774	0.1438008	0.25437274	2.4669234	21	—	—
59621 1999 JN_{72}	14.6	X	242.28861	136.17925	197.57612	13.00678	0.2024765	0.21844250	2.7305154	21	3 20.1	19.1
59622 1999 JX_{72}	14.3	X	199.80794	271.62216	62.48064	15.78334	0.2127508	0.21297414	2.7770571	21	2 23.6	19.3
59623 1999 JE_{73}	14.9	X	255.52795	241.62290	73.15849	12.61517	0.1968382	0.21785663	2.7354085	21	3 17.7	19.5
59624 1999 JS_{73}	14.8	X	74.29853	0.14142	208.02128	13.21175	0.1042902	0.22945320	2.6424491	21	7 17.4	18.5
59625 1999 JU_{73}	14.7	X	228.67398	128.39006	200.61253	11.76035	0.1634283	0.21606080	2.7505449	21	3 3.5	19.3
59626 1999 JA_{75}	13.8	X	235.73240	212.42034	109.56698	17.70292	0.2257078	0.25850637	2.4405547	21	3 1.9	18.2
59627 1999 JH_{76}	14.1	X	270.97641	85.02418	228.17088	11.10659	0.1562172	0.21964254	2.7205606	21	3 24.3	18.4
59628 1999 JP_{76}	14.3	X	82.85783	139.33907	206.81214	10.91744	0.1018977	0.24420421	2.5349377	21	—	—
59629 1999 JV_{76}	14.0	X	35.62441	225.32263	95.22019	15.34413	0.1189974	0.23483023	2.6019566	21	11 5.9	17.5
59630 1999 JK_{77}	15.0	X	12.10371	143.46072	145.39543	13.94897	0.2090760	0.22873704	2.6479618	21	8 14.2	17.1
59631 1999 JY_{77}	14.8	X	9.52813	59.03853	136.08627	6.93282	0.0673137	0.26349537	2.4096505	21	3 14.3	17.5
59632 1999 JZ_{77}	14.1	X	236.68065	191.58679	109.93582	10.92299	0.2273240	0.21211183	2.7845785	21	2 8.3	18.9
59633 1999 JC_{78}	13.7	X	156.70401	21.77226	207.14303	12.92226	0.1165134	0.24065038	2.5598333	21	11 20.1	17.7
59634 1999 JS_{79}	15.0	X	82.64013	72.20238	193.84828	6.66108	0.0871208	0.23576158	2.5950996	21	10 15.9	18.4
59635 1999 JJ_{80}	14.5	X	353.91865	132.16512	164.87421	11.10495	0.2311269	0.22691156	2.6621446	21	7 10.8	16.9
59636 1999 JJ_{81}	15.0	X	341.72565	40.37460	209.78469	5.43432	0.2386218	0.26326252	2.4110712	21	3 18.8	17.2
59637 1999 JF_{82}	13.7	X	45.80518	297.03058	171.51460	12.90725	0.0674777	0.17080928	3.2170791	21	1 28.6	18.1
59638 1999 JH_{82}	14.4	X	85.62222	106.83880	179.20206	13.32249	0.1846718	0.23897363	2.5717933	21	11 26.4	18.6
59639 1999 JS_{83}	14.8	X	140.17492	74.54190	163.38230	12.67496	0.1152850	0.24049428	2.5609409	21	11 17.0	18.9
59640 1999 JH_{84}	14.6	X	37.14917	167.86063	114.42512	16.10805	0.1159382	0.23155652	2.6264232	21	9 15.3	18.1
59641 1999 JS_{85}	15.4	X	104.30832	182.07135	169.90727	5.34051	0.2099176	0.29224549	2.2489036	21	—	—
59642 1999 JZ_{86}	14.5	X	94.39272	188.27582	145.68716	13.78199	0.1953232	0.24633360	2.5203080	21	—	—
59643 1999 JA_{87}	14.8	X	19.71117	236.58537	98.23553	13.02732	0.1690449	0.23764515	2.5813689	21	11 7.8	17.9
59644 1999 JS_{88}	14.5	X	171.28466	182.39745	124.58044	7.62674	0.0620566	0.25349464	2.4726171	21	—	—
59645 1999 JH_{89}	15.0	X	295.76921	39.31436	187.07367	9.15551	0.0933991	0.21490628	2.7603870	21	1 13.9	19.1
59646 1999 JX_{89}	14.8	X	30.98404	207.39515	99.52465	15.33986	0.1746888	0.23447580	2.6045780	21	10 21.8	18.2
59647 1999 JY_{89}	15.0	X	103.18426	155.16514	151.87803	12.72578	0.1704699	0.24340896	2.5404560	21	—	—
59648 1999 JA_{90}	14.2	X	351.10052	144.31603	173.87205	12.93510	0.0487462	0.23230085	2.6208099	21	8 8.0	17.6
59649 1999 JB_{90}	15.3	X	344.69414	240.27981	140.53817	6.00865	0.1100056	0.28355898	2.2946007	21	11 11.8	17.6
59650 1999 JZ_{90}	15.0	X	287.90499	70.41629	189.41834	10.87022	0.1513707	0.21643501	2.7473735	21	2 6.4	19.2
59651 1999 JK_{91}	13.4	X	221.20908	260.21770	97.51737	21.20203	0.1829078	0.17631682	3.1497316	21	4 16.2	19.0
59652 1999 JM_{92}	14.9	X	312.20638	179.03703	116.52208	11.41898	0.0681176	0.22457383	2.6805873	21	5 12.9	18.5
59653 1999 JZ_{92}	15.0	X	29.89180	197.19811	110.94901	13.52687	0.1746652	0.23384780	2.6092390	21	10 20.4	18.3
59654 1999 JB_{94}	14.6	X	44.76952	204.44123	141.11045	8.71817	0.2106180	0.23941702	2.5686171	21	12 28.1	18.2
59655 1999 JN_{94}	14.9	X	290.99765	298.88369	152.85007	14.96676	0.0810759	0.24228277	2.5483223	21	11 14.8	18.2
59656 1999 JT_{94}	15.1	X	217.12756	165.88380	158.84789	12.95207	0.1996285	0.25812037	2.4429873	21	2 13.1	19.3
59657 1999 JC_{95}	14.4	X	302.81754	86.44310	188.90234	12.07965	0.1283134	0.21958992	2.7209952	21	3 20.0	18.0
59658 1999 JE_{95}	14.6	X	51.94681	241.29599	91.62029	13.17064	0.2223837	0.23851506	2.5750886	21	12 21.8	18.3
59659 1999 JM_{95}	14.8	X	36.12444	226.40744	128.80916	7.57781	0.0867961	0.24090968	2.5579961	21	12 12.7	18.1
59660 1999 JE_{96}	15.0	X	138.05619	191.71214	104.54203	15.80128	0.1714473	0.24569130	2.5246986	21	—	—
59661 1999 JG_{96}	13.8	X	15.29342	248.81488	116.00501	14.80040	0.2688880	0.23777617	2.5804206	21	12 23.4	16.7
59662 1999 JN_{96}	14.5	X	20.55807	115.27411	194.41225	12.73559	0.1681034	0.23210845	2.6222579	21	9 26.7	17.2
59663 1999 JY_{96}	14.0	X	195.33379	247.80195	92.81327	17.48434	0.1485867	0.16902928	3.2396251	21	3 2.5	19.5
59664 1999 JB_{97}	14.8	X	331.78182	175.70888	151.46190	12.95782	0.1628701	0.22827467	2.6515362	21	7 12.4	17.8
59665 1999 JF_{97}	14.5	X	31.46408	245.03100	122.30340	14.47334	0.1862654	0.24072200	2.5593255	21	—	—
59666 1999 JH_{97}	14.4	X	221.50238	176.02831	172.75115	13.24180	0.2440188	0.21589207	2.7519778	21	3 21.9	19.2
59667 1999 JQ_{97}	14.5	X	303.92651	216.42612	112.45889	13.53489	0.1752401	0.22472387	2.6793940	21	5 28.7	18.0
59668 1999 JG_{98}	14.2	X	329.23936	264.40899	98.93082	11.20057	0.1480216	0.18831549	3.0144773	21	9 3.1	17.8
59669 1999 JM_{99}	14.9	X	137.19355	36.31282	112.61335	12.83583	0.1322471	0.22985170	2.6393940	21	7 21.2	18.9
59670 1999 JP_{99}	15.5	X	327.35875	57.61262	197.34580	17.72570	0.1019186	0.21991030	2.7183518	21	3 31.5	18.9
59671 1999 JW_{99}	15.1	X	353.90199	157.84903	186.12810	14.21753	0.2860851	0.23046869	2.6346813	21	10 6.1	16.6
59672 1999 JG_{100}	14.9	X	29.43079	110.10640	148.51715	13.70594	0.1764991	0.22759918	2.6567800	21	7 30.4	17.7
59673 1999 JR_{100}	14.8	X	125.86724	193.50424	92.83616	16.06438	0.1397572	0.24230887	2.5481393	21	12 29.6	18.9
59674 1999 JY_{100}	14.5	X	17.14285	206.06080	140.76022	14.61297	0.1180848	0.23575373	2.5951572	21	11 12.2	17.9
59675 1999 JC_{101}	15.1	X	44.58056	127.57086	132.08055	12.99732	0.1648655	0.22915209	2.6447634	21	8 29.4	18.2
59676 1999 JE_{101}	14.5	X	185.10055	227.26623	150.78899	12.83291	0.0218975	0.21795563	2.7345801	21	3 24.4	18.4
59677 1999 JH_{101}	15.0	X	38.02169	76.20136	153.88745	10.83097	0.0432653	0.22556656	2.6727166	21	6 19.4	18.6
59678 1999 JM_{101}	14.0	X	212.98725	210.91583	179.80883	10.76358	0.0197228	0.18203045	3.0834721	21	5 16.4	18.5
59679 1999 JM_{102}	15.0	X	8.83099	140.75008	185.45298	8.42836	0.2416998	0.23306789	2.6150566	21	10 10.9	17.3
59680 1999 JW_{102}	14.3	X	71.72084	299.57763	199.45368	12.43356	0.1074065	0.17777222	3.1325171	21	4 18.8	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59681 1999 JC_{103}	14.9	X	248.37775	219.94765	86.59987	8.44191	0.1885723	0.21562653	2.7542367	21	2 27.1	19.5
59682 1999 JF_{103}	14.5	X	214.67510	253.68000	93.14815	5.99313	0.0643939	0.21887720	2.7268989	21	3 19.9	18.5
59683 1999 JQ_{104}	14.6	X	156.86792	124.82290	148.64586	13.63211	0.1690556	0.24449677	2.5329151	21	—	—
59684 1999 JB_{107}	15.0	X	82.15547	115.74004	210.71753	7.96393	0.0737133	0.24312565	2.5424292	21	12 29.5	18.7
59685 1999 JR_{108}	14.7	X	233.36967	347.03781	100.30570	6.99128	0.2543042	0.23669356	2.5882830	21	7 29.2	18.9
59686 1999 JS_{108}	15.4	X	186.70928	210.58220	104.17212	7.36110	0.1322374	0.25478239	2.4642784	21	1 4.1	19.1
59687 1999 JU_{108}	15.3	X	211.04544	62.10654	116.52535	3.52234	0.1548261	0.24421862	2.5348380	21	11 10.2	19.1
59688 1999 JO_{110}	15.5	X	73.06764	178.37819	108.48236	5.59618	0.0563703	0.23860506	2.5744410	21	10 29.4	19.0
59689 1999 JS_{111}	15.3	X	255.92079	219.73205	166.61554	4.87065	0.0950694	0.27261239	2.3556223	21	6 19.6	18.4
59690 1999 JD_{112}	15.1	X	101.17796	349.94806	72.95380	7.01436	0.1475422	0.25931004	2.4355095	21	2 15.3	18.0
59691 1999 JM_{113}	15.0	X	60.16882	317.26192	235.18615	8.27013	0.0777044	0.22568560	2.6717767	21	6 3.9	18.4
59692 1999 JC_{114}	14.9	X	174.61510	262.01468	104.79373	3.10832	0.1946914	0.25808984	2.4431799	21	3 2.2	18.8
59693 1999 JA_{116}	15.4	X	51.56541	49.93914	214.55243	11.91965	0.1444876	0.23140100	2.6275998	21	9 6.5	18.9
59694 1999 JF_{116}	15.1	X	254.73225	259.29342	84.81711	6.45355	0.2391061	0.26404567	2.4063014	21	4 10.8	19.0
59695 1999 JU_{116}	15.8	X	312.22874	167.88231	29.31719	2.99419	0.0838305	0.30154420	2.2024298	21	—	—
59696 1999 JW_{116}	15.4	X	86.49773	356.69631	243.42111	11.16424	0.1502424	0.23341202	2.6124856	21	9 19.3	19.4
59697 1999 JS_{117}	15.1	X	144.54258	16.62361	148.87568	5.40793	0.1738248	0.23349654	2.6118551	21	8 20.9	19.3
59698 1999 JJ_{118}	15.8	X	332.53737	178.94562	130.55995	4.29022	0.1718335	0.27107638	2.3645124	21	6 15.2	17.7
59699 1999 JU_{118}	15.8	X	73.18173	170.62549	115.17589	3.95550	0.1382002	0.23614723	2.5922735	21	11 6.9	19.4
59700 1999 JX_{118}	14.5	X	246.25986	94.77375	226.39514	8.43931	0.1057466	0.21716809	2.7411873	21	3 13.6	18.8
59701 1999 JP_{119}	15.0	X	146.18698	81.95901	64.21850	10.10425	0.0472193	0.22959759	2.6413411	21	7 23.5	18.9
59702 1999 JZ_{119}	15.2	X	51.13081	101.82764	222.44200	14.36215	0.1599864	0.23702130	2.5858965	21	12 1.6	18.8
59703 1999 JB_{120}	15.4	X	168.84606	45.43990	189.52672	3.27057	0.1666554	0.24302392	2.5431386	21	12 6.8	19.5
59704 1999 JJ_{120}	15.1	X	311.02001	144.31836	55.17611	10.58785	0.0152700	0.25592561	2.4569343	21	1 2.5	18.4
59705 1999 JM_{120}	15.0	X	62.85456	197.57923	60.63781	15.10797	0.0627825	0.23191955	2.6236817	21	9 14.7	18.8
59706 1999 JT_{120}	14.4	X	184.52532	288.38753	226.36110	6.30577	0.1391722	0.23623668	2.5916190	21	9 11.3	18.6
59707 1999 JX_{121}	14.9	X	63.54396	268.22722	83.76407	11.78686	0.2863119	0.23974331	2.5662860	21	—	—
59708 1999 JC_{123}	15.4	X	10.13459	231.19547	87.85324	7.55908	0.1499847	0.27595776	2.3365458	21	10 1.7	17.7
59709 1999 JL_{123}	14.5	X	49.41133	84.60761	228.44487	12.27324	0.0373264	0.23640317	2.5904021	21	10 26.1	17.9
59710 1999 JV_{123}	15.5	X	180.07549	1.09586	213.65376	4.12332	0.1654137	0.24239830	2.5475125	21	11 22.6	19.4
59711 1999 JC_{126}	15.6	X	102.23801	313.14247	233.18427	12.58441	0.0976874	0.23138994	2.6276836	21	7 22.9	19.6
59712 1999 JN_{126}	15.8	X	118.35270	250.84099	41.73872	2.86701	0.1191549	0.24405661	2.5359596	21	12 30.0	19.7
59713 1999 JA_{127}	15.0	X	3.78369	80.33401	239.66415	12.21469	0.1189098	0.23129257	2.6284210	21	8 30.2	18.2
59714 1999 JG_{128}	14.4	X	201.39759	103.84403	34.53200	14.06704	0.1328355	0.23700324	2.5860278	21	9 17.1	18.5
59715 1999 JM_{129}	15.3	X	110.52555	121.84896	127.58002	16.05970	0.1409171	0.23800012	2.5788016	21	11 6.3	19.6
59716 1999 JP_{131}	14.4	X	54.40820	281.54330	47.17737	14.85596	0.1352231	0.23819169	2.5774187	21	12 5.5	18.0
59717 1999 JR_{137}	15.5	X	290.85838	61.19094	178.84311	9.11303	0.1097460	0.21408721	2.7674231	21	1 22.9	19.7
59718 1999 KG_{1}	14.0	X	307.92799	355.20254	238.84915	25.25112	0.1180572	0.21469190	2.7622244	21	1 26.1	18.4
59719 1999 KN_{3}	15.1	X	165.75853	103.19136	152.35339	1.57059	0.2115194	0.24484428	2.5305179	21	12 26.5	19.3
59720 1999 KH_{5}	16.2	X	314.16381	245.53152	148.14005	6.36150	0.0727880	0.23547615	2.5971963	21	9 28.8	19.2
59721 1999 KM_{5}	15.1	X	187.36265	166.99544	222.71866	10.93274	0.1180798	0.26556804	2.3970965	21	4 4.4	18.8
59722 1999 KR_{6}	15.1	X	10.10246	125.35345	156.98258	18.46964	0.3347662	0.22549659	2.6732694	21	8 12.9	16.8
59723 1999 KO_{8}	14.2	X	64.91966	358.07710	239.43202	17.11090	0.1365284	0.23168002	2.6254898	21	8 14.1	18.0
59724 1999 KV_{13}	14.8	X	311.89095	175.24183	96.43506	4.66188	0.1481580	0.21912880	2.7248112	21	3 27.8	18.3
59725 1999 KX_{13}	15.3	X	5.77609	154.72962	96.50689	11.07264	0.1781088	0.22389342	2.6860154	21	5 30.9	17.8
59726 1999 KA_{14}	14.9	X	129.97924	128.95909	80.57776	6.79678	0.1733324	0.23548710	2.5971158	21	10 5.3	19.1
59727 1999 KC_{15}	15.3	X	27.23988	340.75884	228.63582	14.96997	0.1083279	0.22234942	2.6984356	21	5 7.8	18.1
59728 1999 KW_{15}	14.7	X	139.92693	333.18283	231.01018	13.16918	0.0848709	0.23540258	2.5977373	21	9 26.9	18.7
59729 1999 LN	14.3	X	236.36483	64.20684	248.69271	14.41251	0.2118909	0.21033094	2.8002746	21	2 14.2	19.4
59730 1999 LW	15.7	X	233.54659	169.08377	212.48118	4.27144	0.0883275	0.26740426	2.3861102	21	5 17.4	18.8
59731 1999 LL_{2}	15.3	X	8.82661	91.40628	199.82091	11.02428	0.1772780	0.22823044	2.6518788	21	8 3.6	18.2
59732 1999 LO_{2}	15.0	X	88.40683	36.75771	158.78871	13.53113	0.0907230	0.22858724	2.6491186	21	7 19.3	18.7
59733 1999 LR_{2}	15.3	X	100.25447	133.75466	166.14573	9.47196	0.1265299	0.24061608	2.5600766	21	12 21.2	19.4
59734 1999 LT_{2}	15.6	X	129.46150	71.69374	87.05246	5.65422	0.1609920	0.27424846	2.3462444	21	7 30.2	19.1
59735 1999 LY_{3}	15.2	X	17.05757	160.30565	151.59657	4.75902	0.2783793	0.22965486	2.6409020	21	10 13.7	17.6
59736 1999 LA_{5}	14.8	X	349.95371	83.85465	150.25313	15.87618	0.0874049	0.22063051	2.7124329	21	4 14.8	18.3
59737 1999 LC_{6}	13.8	X	78.09174	42.42964	223.34494	32.19938	0.2097853	0.23107321	2.6300842	21	10 23.8	17.8
59738 1999 LH_{8}	15.3	X	248.01257	130.28848	169.84267	8.86494	0.1282856	0.21503596	2.7592771	21	2 18.5	19.6
59739 1999 LP_{8}	14.7	X	44.59563	251.84201	108.07634	15.50626	0.1300696	0.24197261	2.5504995	21	—	—
59740 1999 LC_{9}	14.6	X	295.01806	65.42342	198.41989	8.44597	0.1160362	0.21656703	2.7462568	21	2 24.3	18.7
59741 1999 LE_{9}	14.8	X	188.80406	120.75798	104.33966	13.35046	0.1184312	0.24452422	2.5327255	21	12 17.7	18.6
59742 1999 LN_{9}	14.6	X	215.50536	200.17200	110.36571	10.78183	0.1382187	0.21111869	2.7933044	21	2 2.9	19.1
59743 1999 LV_{9}	15.1	X	327.83691	194.14764	125.63346	13.03018	0.1873426	0.22572225	2.6714874	21	6 21.7	18.0
59744 1999 LG_{10}	13.7	X	9.84767	295.28736	204.29662	13.10975	0.0894318	0.25627945	2.4546723	21	—	—
59745 1999 LF_{13}	14.6	X	160.81711	279.49358	231.54016	11.73329	0.1056927	0.23086082	2.6316971	21	8 11.3	18.9
59746 1999 LN_{13}	14.0	X	304.94235	196.09253	108.24696	15.24772	0.1512234	0.22062326	2.7124923	21	5 4.4	17.8
59747 1999 LV_{13}	14.5	X	139.52704	26.26709	239.86841	11.50134	0.1612890	0.24077821	2.5589272	21	12 17.4	18.7
59748 1999 LE_{14}	13.7	X	15.46780	74.54330	236.07716	13.98950	0.1074326	0.22949352	2.6421396	21	9 4.9	17.1
59749 1999 LZ_{15}	16.1	X	310.59304	121.11215	205.87244	20.15669	0.0917653	0.35722359	1.9671733	21	6 9.6	18.3
59750 1999 LX_{16}	15.3	X	64.62974	42.26231	277.12634	4.05799	0.2924821	0.23711589	2.5852087	21	12 25.2	19.3
59751 1999 LU_{18}	15.4	X	351.31575	185.96519	83.07009	9.06085	0.1646082	0.22376275	2.6870610	21	5 26.6	18.0
59752 1999 LW_{19}	14.9	X	329.21994	229.19500	66.13547	13.12104	0.2712934	0.22226659	2.6991059	21	5 6.6	17.6
59753 1999 LA_{28}	16.0	X	133.25703	111.21870	244.50926	5.87163	0.1446129	0.29492259	2.2352736	21	—	—
59754 1999 LR_{31}	15.8	X	46.04601	217.98053	108.16999	6.29276	0.2223076	0.27739932	2.3284439	21	12 14.1	18.8
59755 1999 LY_{32}	14.3	X	66.26418	247.08589	111.27085	13.64373	0.1981022	0.24460787	2.5321481	21	—	—
59756 1999 LL_{35}	14.5	X	240.60643	281.59100	167.21175	22.00066	0.1083590	0.23391073	2.6087710	21	8 21.1	18.4
59757 1999 ME	15.0	X	318.67033	191.22580	98.73459	13.04502	0.1295910	0.22033053	2.7148943	21	5 7.0	18.5
59758 1999 MH	15.3	X	352.98430	343.95826	105.55559	9.93655	0.0385519	0.28750437	2.2735600	21	—	—
59759 1999 MR	15.4	X	36.51281	228.79117	80.48317	4.59060	0.2055729	0.23044571	2.6348565	21	10 30.8	18.6
59760 1999 MU	15.1	X	13.77946	180.00326	146.48176	14.35549	0.1933613	0.23127583	2.6285478	21	10 18.6	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59761 1999 MZ	15.4	X	336.93093	223.22291	100.99768	7.68969	0.1486761	0.26897253	2.3768262	21	7 22.7	17.4
59762 1999 NB_1	15.5	X	75.41365	149.61106	134.63708	7.03598	0.1386759	0.27676045	2.3320259	21	11 14.4	18.8
59763 1999 NF_2	13.8	X	296.72363	117.77153	211.11232	15.33130	0.1021276	0.17535214	3.1612730	21	5 29.8	18.2
59764 1999 NK_3	14.7	X	336.36048	45.46635	263.13033	11.10869	0.2454721	0.22229801	2.6988516	21	6 13.3	17.2
59765 1999 NN_4	14.8	X	267.92334	204.69773	105.66411	10.49286	0.1872946	0.21368373	2.7709057	21	3 23.4	19.2
59766 1999 NW_6	15.3	X	354.68453	14.83155	265.07362	1.16448	0.2713417	0.22197781	2.7014463	21	6 12.3	17.2
59767 1999 NR_{10}	13.0	X	18.57656	29.41336	308.10538	8.53110	0.0987834	0.18399508	3.0614834	21	10 11.5	17.1
59768 1999 NV_{10}	14.2	X	341.31749	51.26187	304.12275	8.06839	0.1054136	0.18067450	3.0988804	21	9 6.6	18.0
59769 1999 NG_{15}	16.0	X	0.06551	343.62084	303.95922	2.15814	0.1629134	0.26891081	2.3771899	21	7 13.4	17.9
59770 1999 NS_{15}	14.9	X	230.75560	228.04144	112.26555	10.40226	0.1714033	0.21252223	2.7809924	21	3 26.2	19.6
59771 1999 NX_{17}	14.8	X	47.93498	224.88340	57.34627	4.54409	0.1696609	0.22948330	2.6422181	21	10 5.5	18.0
59772 1999 NN_{18}	14.7	X	332.91362	217.19686	100.79762	15.20712	0.2148399	0.22302407	2.6929909	21	6 25.0	17.1
59773 1999 NZ_{21}	14.8	X	52.20673	319.66118	357.50967	1.68628	0.1342107	0.18832098	3.0144187	21	11 11.2	19.0
59774 1999 NH_{29}	16.2	X	308.53554	85.41099	183.57683	0.88349	0.1695589	0.26039931	2.4287128	21	3 7.5	19.0
59775 1999 NL_{29}	14.9	X	278.48984	331.11943	285.74254	6.90225	0.1763250	0.21045428	2.7991803	21	1 24.3	19.3
59776 1999 NE_{33}	14.7	X	51.36289	133.09948	113.38439	12.40473	0.1449561	0.22512579	2.6762040	21	8 18.2	18.0
59777 1999 NK_{35}	15.6	X	274.38012	204.33716	86.76830	6.24635	0.1426562	0.25827385	2.4420193	21	3 3.3	19.2
59778 1999 NO_{39}	14.9	X	69.49574	24.55478	325.65553	8.21740	0.2013425	0.23667658	2.5884068	21	—	—
59779 1999 NU_{40}	14.0	X	342.55072	354.72060	356.60603	5.11972	0.1894911	0.18054404	3.1003730	21	9 5.3	17.1
59780 1999 NB_{42}	13.8	X	37.85023	287.84215	114.22310	10.84446	0.0972020	0.19272166	2.9683540	21	—	—
59781 1999 NU_{42}	13.9	X	133.50223	163.85155	316.19104	15.06280	0.0636586	0.17211136	3.2008331	21	6 3.3	18.9
59782 1999 NG_{43}	14.9	X	317.09498	191.58603	118.05883	14.16042	0.1715166	0.22284543	2.6944299	21	5 24.3	18.4
59783 1999 NN_{43}	14.9	X	165.75012	154.07916	212.93956	4.79611	0.1745518	0.29905160	2.2146510	21	2 12.2	18.2
59784 1999 NV_{44}	14.9	X	329.48966	164.06625	129.34299	13.79890	0.1549776	0.22217272	2.6998661	21	5 24.9	18.3
59785 1999 NG_{49}	15.4	X	157.85129	28.07377	257.70752	3.80460	0.1690049	0.28742359	2.2739859	21	—	—
59786 1999 NY_{52}	14.8	X	200.63067	79.64384	213.74189	14.22922	0.1449526	0.20318070	2.8655923	21	—	—
59787 1999 NO_{55}	14.4	X	261.94202	119.93152	223.81839	12.21155	0.2191940	0.21449226	2.7639381	21	4 18.2	18.7
59788 1999 ND_{56}	13.7	X	68.52389	70.35848	223.98318	15.43809	0.2103477	0.18632702	3.0358863	21	11 13.1	18.1
59789 1999 NO_{56}	14.0	X	85.18815	9.26234	242.29899	13.69786	0.1848594	0.22830094	2.6513328	21	10 6.9	18.2
59790 1999 NR_{56}	13.7	X	350.58427	57.55003	267.90937	11.21700	0.1622558	0.17833382	3.1259371	21	8 10.7	17.4
59791 1999 NN_{59}	14.9	X	265.80010	136.67607	208.76168	8.15096	0.2877266	0.21540170	2.7561528	21	4 18.2	19.3
59792 1999 NL_{60}	14.5	X	9.72238	1.82700	214.78587	11.55951	0.1443035	0.21824422	2.7321689	21	4 15.6	17.5
59793 Clapiès	14.3	X	30.37543	178.89911	131.65244	10.98187	0.0359304	0.18330696	3.0691404	21	9 25.1	18.6
59794 1999 OE_1	15.3	X	31.00925	175.75009	111.39908	7.51048	0.1599569	0.22634394	2.6665934	21	9 15.4	18.4
59795 1999 OE_2	13.1	X	59.02102	358.42679	246.48545	15.38271	0.0648949	0.17354053	3.1832355	21	8 3.5	17.8
59796 1999 OJ_3	14.4	X	64.53793	109.39780	225.86292	28.21920	0.2490061	0.23049653	2.6344691	21	—	—
59797 Píšala	16.3	X	70.80821	99.37908	152.12906	5.22030	0.1464039	0.31598746	2.1347949	21	9 30.2	18.8
59798 1999 PO_1	14.4	X	339.31388	320.16773	23.81764	21.97590	0.0374320	0.18103024	3.0948193	21	9 5.9	18.9
59799 1999 PC_2	16.1	X	34.41127	131.61883	135.92618	4.18022	0.1032928	0.31230143	2.1515597	21	8 18.9	17.9
59800 Astropis	14.2	X	18.14221	241.18331	177.54861	21.63242	0.0779504	0.23320245	2.6140506	21	—	—
59801 1999 PY_4	15.3	X	358.73758	233.04206	80.87306	1.06038	0.3169304	0.22479342	2.6788413	21	8 30.9	16.7
59802 1999 PZ_5	14.6	X	326.48398	165.56444	137.26769	10.07497	0.0609940	0.17457100	3.1706964	21	6 12.9	19.0
59803 1999 QH_2	15.1	X	329.34602	32.25605	305.78576	0.44724	0.2578300	0.17584987	3.1553051	21	7 11.1	18.3
59804 Dickjoyce	13.2	X	191.01029	48.00687	44.90609	9.36015	0.0582572	0.17254378	3.1954830	21	7 5.3	18.1
59805 1999 RZ_6	14.4	X	124.96741	303.10358	358.75166	6.60726	0.2012868	0.19125960	2.9834623	21	—	—
59806 1999 RQ_{10}	13.8	X	276.37225	28.54440	339.50603	18.04747	0.1509696	0.17388977	3.1789719	21	6 14.7	18.8
59807 1999 RH_{13}	14.9	X	185.65316	179.06491	163.08843	2.11022	0.0884615	0.20387685	2.8590655	21	2 10.7	19.2
59808 1999 RU_{13}	14.7	X	32.12552	336.66849	28.53678	3.67316	0.1504034	0.18660177	3.0329055	21	12 16.4	18.7
59809 1999 RW_{16}	14.4	X	267.45519	175.89126	208.46034	4.74819	0.1775181	0.17219312	3.1998197	21	6 21.3	19.2
59810 1999 RM_{17}	14.6	X	269.59565	147.77865	298.87087	4.17451	0.1242887	0.17904468	3.1176578	21	9 16.6	18.9
59811 1999 RV_{17}	13.6	X	349.29853	327.77348	334.49507	7.58044	0.1231698	0.17506979	3.1646711	21	7 14.1	17.5
59812 1999 RA_{18}	13.8	X	39.75949	228.88892	343.70120	14.94646	0.0362189	0.16910009	3.2387207	21	5 26.3	18.5
59813 1999 RU_{18}	16.6	X	306.22493	129.64111	248.59201	1.11544	0.1897594	0.31185998	2.1535896	21	8 10.9	18.2
59814 1999 RX_{18}	16.3	X	95.62709	283.18888	7.04369	2.12033	0.2028557	0.27798259	2.3251857	21	12 15.3	19.9
59815 1999 RQ_{19}	13.9	X	83.22635	184.43725	353.26066	9.65037	0.0523132	0.16935008	3.2355326	21	6 13.9	18.6
59816 1999 RO_{20}	15.8	X	69.50610	128.63383	195.76875	5.73200	0.1346998	0.27699087	2.3307324	21	12 26.4	19.1
59817 1999 RC_{21}	14.1	X	309.60460	218.17184	181.31755	17.59661	0.0883880	0.17839792	3.1251883	21	9 18.4	18.1
59818 1999 RF_{21}	15.1	X	178.32338	182.84973	131.13843	2.91725	0.2049123	0.19934426	2.9022416	21	1 8.9	19.9
59819 1999 RH_{22}	14.0	X	358.44410	238.49344	173.11316	9.54184	0.0476591	0.18676914	3.0310933	21	12 15.9	18.2
59820 1999 RT_{23}	15.2	X	9.06959	320.87621	46.75440	3.46764	0.1033038	0.22824068	2.6517995	21	11 18.6	18.3
59821 1999 RR_{25}	15.9	X	50.94120	8.97988	242.18718	3.82480	0.1104810	0.31042146	2.1602378	21	8 20.3	18.1
59822 1999 RK_{26}	14.0	X	314.14004	271.93405	152.91679	9.31445	0.1158214	0.18114658	3.0934941	21	10 29.8	17.9
59823 1999 RU_{26}	14.4	X	288.96935	204.05525	158.69407	5.47073	0.1107043	0.17214479	3.2004186	21	6 30.0	18.8
59824 1999 RQ_{27}	13.5	X	302.32342	306.57644	357.43267	9.41299	0.1119389	0.16885047	3.2419118	21	4 30.6	18.0
59825 1999 RV_{27}	14.1	X	342.66505	217.66641	172.31123	5.34856	0.2123445	0.18065921	3.0990551	21	10 30.9	17.2
59826 1999 RU_{29}	16.3	X	99.97648	135.43720	177.93943	22.67524	0.0782445	0.37077263	1.9189527	21	—	—
59827 1999 RF_{32}	14.6	X	68.08410	245.70745	167.23636	12.31976	0.1648404	0.24072389	2.5593121	21	—	—
59828 Ossikar	15.2	X	27.00955	45.62759	176.10571	3.35615	0.0304672	0.21287832	2.7778003	21	5 22.3	18.8
59829 1999 RZ_{32}	14.4	X	321.37829	318.22631	17.52834	3.53340	0.1878008	0.17365552	3.1818301	21	7 2.7	18.2
59830 Reynek	14.8	X	253.83900	46.17491	17.99709	3.43360	0.1842908	0.17366926	3.1816623	21	7 26.3	19.5
59831 1999 RR_{36}	14.3	X	52.50303	69.27882	0.22653	1.71330	0.0462168	0.19433774	2.9518749	21	—	—
59832 1999 RW_{36}	16.6	X	173.05143	200.86424	108.99867	2.77151	0.1946793	0.28976947	2.2616963	21	—	—
59833 Danimatter	13.9	X	59.73258	332.67996	324.16635	9.47059	0.0603624	0.18344281	3.0676249	21	10 11.2	18.4
59834 1999 RE_{37}	16.0	X	223.82807	311.30662	78.52571	2.07892	0.1927790	0.30241099	2.1982192	21	5 9.4	19.3
59835 1999 RJ_{40}	14.2	X	335.41009	147.89523	243.04613	8.34677	0.0869674	0.18273381	3.0755546	21	10 15.6	18.1
59836 1999 RN_{44}	15.8	X	65.94799	126.91523	193.77120	12.65339	0.2907617	0.27704801	2.3304119	21	—	—
59837 1999 RP_{44}	14.2	X	98.90848	309.71590	281.97763	8.90318	0.0565782	0.18158477	3.0885154	21	9 7.2	18.8
59838 1999 RU_{45}	14.9	X	263.80557	212.58746	200.15290	6.01219	0.0676567	0.21948896	2.7218296	21	8 7.1	18.6
59839 1999 RS_{47}	15.3	X	98.46159	128.49603	154.22723	7.46934	0.1990093	0.27967304	2.3158067	21	12 9.7	19.1
59840 1999 RD_{49}	12.9	X	294.86022	70.44798	331.31814	8.26008	0.0713505	0.18078896	3.0975722	21	9 2.3	17.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59841 1999 RH_{54}	15.7	X	240.00860	346.37302	47.92658	3.24286	0.1878938	0.26161283	2.4211964	21	6 1.4	19.4
59842 1999 RT_{55}	15.4	X	83.75770	187.40061	140.22359	5.66400	0.2742099	0.23595946	2.5936485	21	—	—
59843 1999 RD_{59}	13.7	X	146.50048	238.82105	329.67611	11.30893	0.0987338	0.18438701	3.0571436	21	10 4.0	18.5
59844 1999 RU_{60}	14.7	X	356.62343	170.62856	175.34504	9.97583	0.1009096	0.18123525	3.0924850	21	9 22.9	18.6
59845 1999 RC_{61}	14.2	X	317.09793	247.20347	160.54692	10.19410	0.1164200	0.18255136	3.0776035	21	10 11.9	18.0
59846 1999 RA_{64}	15.0	X	131.31918	286.47758	40.56335	2.47294	0.0958118	0.19583661	2.9367938	21	—	—
59847 1999 RT_{71}	14.6	X	348.31819	254.04963	80.97578	2.71887	0.1507737	0.17813602	3.1282507	21	8 25.9	18.0
59848 1999 RT_{73}	15.4	X	63.32240	86.23337	177.26669	7.32158	0.1596255	0.22536123	2.6743398	21	9 27.8	18.9
59849 1999 RE_{78}	15.3	X	170.45053	15.47593	221.83631	1.90781	0.1145257	0.23564307	2.5959696	21	12 12.2	19.1
59850 1999 RJ_{80}	16.5	X	138.72364	327.11468	145.63338	0.13449	0.0343045	0.30360536	2.1924503	21	5 22.6	19.0
59851 1999 RO_{80}	14.6	X	24.86711	95.05859	184.30777	10.99071	0.1986287	0.17871667	3.1214713	21	8 18.8	18.2
59852 1999 RN_{82}	14.0	X	1.14681	115.70025	326.52835	8.62000	0.0172741	0.19171916	2.9786927	21	—	—
59853 1999 RP_{82}	14.5	X	59.26120	147.72510	181.72286	19.01827	0.1253659	0.18583495	3.0412430	21	12 4.9	19.2
59854 1999 RY_{85}	14.0	X	8.80692	251.80669	33.99624	5.61878	0.1203610	0.17504651	3.1649516	21	7 26.2	17.8
59855 1999 RD_{86}	14.7	X	104.88181	136.95736	155.27894	12.89111	0.3064145	0.23510771	2.5999089	21	12 24.9	19.6
59856 1999 RJ_{92}	16.3	X	184.17239	77.11106	356.33742	7.36939	0.1274376	0.30198696	2.2002765	21	5 27.7	19.5
59857 1999 RF_{93}	14.4	X	0.57927	358.25422	46.67721	3.72721	0.1026729	0.18531542	3.0469244	21	12 14.2	18.1
59858 1999 RT_{93}	14.6	X	116.71911	217.60561	84.97709	3.49779	0.3171260	0.19166430	2.9792611	21	—	—
59859 1999 RM_{94}	14.4	X	258.04637	209.02301	14.50129	12.14760	0.0914574	0.24193492	2.5507644	21	—	—
59860 1999 RP_{94}	14.5	X	326.76312	251.08945	98.31278	3.07305	0.1970586	0.17536612	3.1611050	21	7 30.6	18.0
59861 1999 RY_{95}	13.8	X	320.15623	244.13791	102.20689	4.88034	0.1497772	0.17418778	3.1753450	21	7 19.9	17.6
59862 1999 RT_{97}	14.7	X	24.06560	173.28382	145.98686	1.35633	0.1727338	0.17997775	3.1068730	21	10 10.1	18.4
59863 1999 RH_{98}	14.1	X	311.55843	257.47272	85.92660	2.59685	0.2070823	0.17314887	3.1880340	21	6 23.0	18.1
59864 1999 RW_{102}	13.9	X	345.49461	342.60687	313.48208	16.99095	0.1181334	0.17457654	3.1706292	21	6 30.3	17.9
59865 1999 RO_{103}	14.4	X	127.18173	98.39683	199.91510	10.33923	0.0920310	0.19194330	2.9763733	21	—	—
59866 1999 RF_{105}	13.9	X	107.28998	281.21105	23.61606	9.58053	0.1105350	0.18715612	3.0269136	21	12 23.4	18.7
59867 1999 RT_{105}	13.6	X	73.14087	350.59830	323.16004	14.66313	0.0696627	0.18543632	3.0455999	21	11 19.2	18.3
59868 1999 RH_{106}	15.4	X	205.51037	191.04823	223.01560	7.23807	0.1616545	0.21243460	2.7817571	21	5 28.7	19.9
59869 1999 RC_{108}	14.1	X	345.73409	174.20490	218.76629	10.08768	0.0768930	0.18321358	3.0701830	21	11 5.4	17.9
59870 1999 RH_{109}	14.3	X	38.93335	119.06427	218.73619	8.81581	0.1006630	0.18331160	3.0690885	21	11 14.8	18.3
59871 1999 RL_{111}	14.3	X	325.63525	49.17754	347.75887	9.68829	0.1243574	0.18245657	3.0786693	21	10 5.6	18.0
59872 1999 RB_{112}	15.0	X	315.48376	131.97528	160.70006	9.40413	0.1499701	0.21762451	2.7373532	21	4 30.6	18.5
59873 1999 RO_{112}	15.7	X	283.42205	141.74282	167.90509	8.21570	0.2081652	0.25994624	2.4315341	21	3 27.3	19.1
59874 1999 RJ_{113}	15.1	X	301.06946	77.75676	225.23536	7.29411	0.1973811	0.21666986	2.7453879	21	4 12.2	18.9
59875 1999 RN_{114}	14.6	X	329.46108	237.83030	52.77764	2.12977	0.1605835	0.17306264	3.1890929	21	5 19.6	18.4
59876 1999 RK_{116}	14.3	X	355.85940	142.56087	200.74877	8.79013	0.1524930	0.18156127	3.0887818	21	9 17.9	17.8
59877 1999 RA_{117}	14.5	X	355.12122	156.46746	151.93794	13.90896	0.1687179	0.22342424	2.6897744	21	8 1.8	17.2
59878 1999 RF_{117}	15.7	X	319.84706	165.94946	187.94557	6.17125	0.1238376	0.26823292	2.3811934	21	8 4.5	18.0
59879 1999 RM_{119}	13.9	X	18.38432	51.65340	297.11054	8.91026	0.1270736	0.18461812	3.0545917	21	10 29.9	17.9
59880 1999 RS_{119}	14.0	X	330.77183	175.90507	166.07182	10.47429	0.2209691	0.17788786	3.1311594	21	7 23.3	17.5
59881 1999 RZ_{121}	14.2	X	341.37424	112.03751	217.09440	11.04345	0.0801455	0.17805401	3.1292112	21	8 2.6	18.5
59882 1999 RM_{122}	14.3	X	214.05014	220.22824	194.51578	11.14160	0.0424388	0.17050701	3.2208801	21	6 14.2	19.2
59883 1999 RU_{123}	14.8	X	286.07477	84.95635	190.78332	7.25873	0.1900497	0.20960861	2.8067041	21	2 21.1	19.1
59884 1999 RW_{123}	14.9	X	239.69788	241.54746	128.26542	0.58706	0.0868027	0.21311489	2.7758342	21	5 12.1	19.0
59885 1999 RO_{124}	15.2	X	276.18337	173.64361	207.41922	11.02601	0.1541764	0.21775774	2.7362366	21	6 29.3	19.2
59886 1999 RY_{126}	15.4	X	76.31317	74.54911	259.45792	5.31364	0.2410603	0.28031342	2.3122784	21	—	—
59887 1999 RU_{127}	14.0	X	33.43144	48.88496	303.80809	8.09263	0.0438362	0.18725264	3.0258734	21	11 16.4	18.3
59888 1999 RS_{128}	13.5	X	137.03876	80.80812	299.44948	7.28785	0.1411644	0.15771604	3.3927521	21	2 16.1	18.6
59889 1999 RV_{129}	13.9	X	329.77776	266.05254	142.96402	11.08954	0.0837030	0.18505000	3.0498371	21	11 6.1	17.9
59890 1999 RG_{133}	13.2	X	94.27215	301.48935	237.35708	7.67238	0.0414109	0.17273308	3.1931479	21	6 27.9	17.7
59891 1999 RF_{135}	13.8	X	283.48829	227.39235	158.27706	21.63888	0.1573102	0.17533026	3.1615360	21	7 14.9	18.6
59892 1999 RQ_{137}	14.8	X	180.60383	170.36856	164.41591	5.27499	0.1058056	0.20286229	2.8685901	21	1 28.4	19.2
59893 1999 RY_{137}	15.7	X	55.15377	332.05255	344.35798	8.11542	0.1806964	0.27601266	2.3362360	21	12 4.4	19.0
59894 1999 RQ_{138}	14.1	X	228.59504	245.06442	171.13880	15.29465	0.0435726	0.17161944	3.2069466	21	7 2.2	19.1
59895 1999 RH_{140}	14.9	X	296.70034	158.66490	237.25036	4.59874	0.1435502	0.17741767	3.1366891	21	8 16.6	19.0
59896 1999 RO_{140}	15.0	X	341.50041	300.51568	64.30152	2.26667	0.1815360	0.18037551	3.1023038	21	9 22.8	18.4
59897 1999 RD_{142}	14.3	X	286.63123	169.75536	164.03635	10.98049	0.0712488	0.16931987	3.2359174	21	5 29.1	19.0
59898 1999 RE_{142}	16.6	X	109.73462	297.67489	22.12390	2.77523	0.2186416	0.28213875	2.3022946	21	—	—
59899 1999 RN_{142}	14.6	X	84.74431	266.65335	144.88598	6.70718	0.0887795	0.19708570	2.9243721	21	1 9.9	18.4
59900 1999 RH_{143}	13.6	X	42.87187	126.52726	178.91161	10.72152	0.0248995	0.17925423	3.1152276	21	9 30.1	17.9
59901 1999 RA_{145}	15.5	X	36.90668	162.33889	185.02304	12.57118	0.2602489	0.23104235	2.6303184	21	12 25.8	19.3
59902 1999 RJ_{147}	13.7	X	321.49181	31.44864	302.94666	11.14665	0.0323814	0.17479554	3.1679804	21	7 19.2	17.9
59903 1999 RO_{148}	13.5	X	96.26040	259.77796	167.13825	15.63333	0.0921857	0.15755665	3.3950400	21	2 20.1	18.3
59904 1999 RR_{149}	14.2	X	267.48947	138.95183	285.51376	0.78227	0.1306899	0.17657741	3.1466320	21	8 17.5	18.6
59905 1999 RB_{151}	13.4	X	239.66422	310.28421	124.19823	6.74805	0.1149293	0.17513140	3.1639289	21	7 30.9	18.1
59906 1999 RR_{151}	15.7	X	43.79817	155.03338	117.21317	3.13998	0.2044354	0.27040437	2.3684283	21	9 26.1	18.2
59907 1999 RM_{152}	14.6	X	96.41781	352.89842	334.25571	5.50511	0.2729154	0.19138780	2.9821298	21	—	—
59908 1999 RS_{154}	13.6	X	221.91541	121.47297	284.15360	2.56287	0.0596568	0.17046260	3.2214394	21	6 10.3	18.3
59909 1999 RK_{155}	12.9	X	168.91480	240.99186	313.60429	8.78333	0.0392141	0.18342896	3.0677793	21	10 10.7	17.6
59910 1999 RA_{156}	15.4	X	150.91930	38.87987	247.41063	3.45458	0.1678404	0.28439002	2.2901283	21	—	—
59911 1999 RD_{156}	14.2	X	339.09222	57.40268	265.62782	3.73008	0.1509656	0.17614906	3.1517311	21	7 20.7	17.8
59912 1999 RU_{156}	14.6	X	75.08322	99.94214	187.85998	5.09154	0.1434500	0.18489388	3.0515538	21	11 4.6	19.0
59913 1999 RB_{157}	14.7	X	351.72492	18.20377	347.16742	9.18301	0.1044572	0.18162568	3.0880516	21	10 7.6	18.5
59914 1999 RX_{157}	14.3	X	72.94817	295.13295	357.50066	15.49857	0.1708663	0.18572546	3.0424381	21	11 4.7	19.0
59915 1999 RF_{159}	12.4	X	157.88891	176.87965	349.78052	19.34800	0.0727972	0.17771444	3.1331961	21	9 1.5	17.2
59916 1999 RT_{159}	14.2	X	8.75317	206.71099	133.65909	7.17544	0.1463577	0.18135701	3.0911007	21	10 11.8	17.9
59917 1999 RC_{161}	14.5	X	24.01786	112.42579	211.64509	3.74307	0.1320174	0.18076829	3.0978083	21	10 10.0	18.4
59918 1999 RF_{161}	15.0	X	63.22477	153.67923	295.97441	6.15256	0.0897083	0.29139463	2.2532793	21	1 1.8	17.1
59919 1999 RP_{161}	14.1	X	345.48239	309.10955	310.99902	0.66678	0.0869266	0.17049120	3.2210792	21	5 12.7	18.2
59920 1999 RO_{162}	13.6	X	228.73042	352.42998	35.98911	9.94998	0.1632944	0.21168910	2.7882843	21	5 16.6	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
59921 1999 RM_{163}	15.0	X	79.27571	67.12244	255.14467	3.10643	0.1331039	0.18823831	3.0153012	21	12 18.2	19.5
59922 1999 RY_{164}	14.4	X	203.58887	251.40500	189.68987	8.73201	0.2850472	0.21400174	2.7681600	21	6 24.9	19.6
59923 1999 RY_{165}	15.2	X	266.71673	315.95791	359.18695	3.93790	0.1972656	0.21138814	2.7909302	21	3 22.2	19.5
59924 1999 RN_{167}	13.8	X	322.25096	283.60951	141.67729	11.82704	0.0833467	0.18455624	3.0552745	21	11 15.3	17.9
59925 1999 RR_{172}	14.3	X	359.57368	267.15807	139.79292	10.83881	0.1200501	0.18647892	3.0342374	21	12 18.3	18.2
59926 1999 RD_{173}	14.2	X	315.53944	303.20877	14.13119	16.06761	0.0999823	0.17245373	3.1965953	21	6 7.0	18.7
59927 1999 RP_{173}	13.7	X	30.84468	239.06298	4.46619	17.80414	0.1110441	0.17315224	3.1879926	21	7 6.6	18.1
59928 1999 RG_{174}	14.7	X	207.43967	158.61234	112.03299	3.21146	0.0847926	0.19797262	2.9156315	21	—	—
59929 1999 RK_{174}	14.1	X	295.73514	14.16128	23.00354	3.71881	0.2117692	0.17561819	3.1580794	21	8 9.7	18.1
59930 1999 RE_{176}	14.5	X	235.44549	251.21383	339.18483	10.03438	0.1161971	0.19639553	2.9312193	21	—	—
59931 1999 RZ_{179}	13.8	X	263.88996	346.59060	124.90184	10.68404	0.0524356	0.18340910	3.0680008	21	10 27.8	18.2
59932 1999 RY_{181}	16.5	X	72.42546	146.05277	158.80451	2.52291	0.2317653	0.27643588	2.3338509	21	12 14.9	20.0
59933 1999 RQ_{186}	14.7	X	339.43852	80.03833	348.45870	8.93565	0.0410431	0.18752369	3.0229569	21	12 9.6	18.9
59934 1999 RU_{186}	14.6	X	170.15132	196.65579	196.68807	1.38837	0.0315717	0.20731816	2.8273386	21	3 24.7	18.6
59935 1999 RR_{187}	14.8	X	149.04828	288.74200	52.50927	2.48499	0.0880502	0.19829384	2.9124819	21	1 3.6	19.1
59936 1999 RJ_{188}	14.5	X	272.81176	342.30374	26.38311	10.29081	0.1345496	0.17181516	3.2045107	21	6 12.5	19.3
59937 1999 RH_{189}	14.9	X	348.54427	166.10966	179.52524	9.70881	0.1095040	0.17788219	3.1312259	21	9 7.6	18.7
59938 1999 RQ_{190}	14.4	X	23.77454	169.97537	201.59541	11.31178	0.1358038	0.18526951	3.0474277	21	12 10.9	18.5
59939 1999 RW_{192}	14.7	X	355.57846	119.81790	152.87120	14.28734	0.1764737	0.17395928	3.1781251	21	6 13.2	18.5
59940 1999 RT_{197}	15.9	X	85.61992	100.06962	252.92844	6.47776	0.1495215	0.28201422	2.3029723	21	—	—
59941 1999 RX_{197}	13.5	X	287.82811	127.67943	260.59688	8.24911	0.0940301	0.17458287	3.1705526	21	7 31.7	17.9
59942 1999 RZ_{197}	13.8	X	292.64895	144.39578	308.29852	9.15661	0.0626342	0.18351409	3.0668305	21	11 1.3	18.2
59943 1999 RH_{198}	14.2	X	50.44457	332.23379	301.15941	16.10524	0.1668589	0.18115480	3.0934005	21	9 10.7	18.6
59944 1999 RJ_{199}	14.0	X	91.46515	18.68623	337.47154	9.86637	0.0950837	0.19088219	2.9873936	21	—	—
59945 1999 RH_{202}	13.9	X	352.49131	328.10284	296.46058	9.99942	0.0876514	0.16905066	3.2393519	21	5 28.6	18.1
59946 1999 RG_{205}	13.9	X	177.07330	273.95167	310.24349	15.74686	0.0098549	0.18545140	3.0454348	21	11 28.8	18.5
59947 1999 RV_{205}	14.3	X	99.82161	42.58964	307.73533	9.48312	0.0983736	0.19166465	2.9792575	21	—	—
59948 1999 RX_{213}	14.8	X	73.82862	180.87396	149.48917	11.03713	0.1093412	0.19051212	2.9912610	21	12 20.4	19.4
59949 1999 RL_{215}	15.6	X	330.88119	201.77948	127.42027	2.97825	0.2286338	0.26757589	2.3850898	21	7 5.7	17.1
59950 1999 RA_{220}	13.0	X	6.19934	249.24128	37.59442	11.63358	0.0503217	0.17373711	3.1808339	21	7 22.1	17.4
59951 1999 RZ_{220}	16.1	X	167.32761	299.97165	106.41391	5.63315	0.1548360	0.29686572	2.2255090	21	4 9.9	19.4
59952 1999 RG_{222}	14.7	X	53.79035	222.24244	98.95332	4.87416	0.1587349	0.18616030	3.0376985	21	11 22.6	18.9
59953 1999 RB_{226}	13.9	X	85.13488	269.38770	312.36731	20.87960	0.1358458	0.17792315	3.1307454	21	8 19.9	18.5
59954 1999 RP_{226}	14.6	X	64.03741	86.32587	242.23179	7.88729	0.0373273	0.18698781	3.0287297	21	11 26.2	18.8
59955 1999 RX_{226}	14.3	X	283.98466	209.77947	280.69434	9.85255	0.0575340	0.18877065	3.0096297	21	12 11.8	18.4
59956 1999 RR_{230}	13.6	X	119.57926	267.72644	52.68617	10.98207	0.1069047	0.19182912	2.9775543	21	—	—
59957 1999 RH_{231}	15.1	X	327.51394	273.18752	89.42115	8.05926	0.1868926	0.22182131	2.7027168	21	8 28.9	17.8
59958 1999 RJ_{231}	13.9	X	67.82269	242.65200	74.64783	10.60594	0.0989931	0.18439878	3.0570134	21	11 25.7	18.2
59959 1999 RV_{233}	14.3	X	12.69198	283.59567	33.91124	16.57878	0.0612297	0.17774655	3.1328187	21	9 15.9	18.6
59960 1999 RY_{233}	15.0	X	273.39400	172.02159	130.78990	9.06321	0.2074575	0.21035433	2.8000669	21	3 15.6	19.4
59961 1999 RZ_{233}	14.4	X	126.88652	270.65871	27.16205	12.31478	0.2628663	0.19223868	2.9733238	21	—	—
59962 1999 RL_{234}	14.3	X	315.57237	307.73650	31.01137	10.89482	0.1256161	0.17374625	3.1807223	21	7 6.3	18.5
59963 1999 RZ_{234}	14.0	X	79.42548	256.92833	37.54600	9.14746	0.0653605	0.18394566	3.0620317	21	11 5.9	18.3
59964 1999 RM_{235}	13.9	X	66.55902	148.06067	102.90633	6.89942	0.1518753	0.17788499	3.1311930	21	9 12.7	18.3
59965 1999 RJ_{236}	14.2	X	337.74226	303.62381	65.88819	10.70279	0.0957397	0.17836138	3.1256151	21	9 28.9	18.2
59966 1999 RS_{238}	14.5	X	64.49796	265.56139	39.83429	11.18581	0.1138969	0.18283825	3.0743834	21	11 7.9	18.8
59967 1999 RP_{240}	13.5	X	329.56423	213.19341	118.31658	15.00840	0.0896184	0.17327216	3.1865216	21	7 21.5	17.6
59968 1999 RC_{241}	13.8	X	37.54212	184.78862	105.23265	10.91008	0.1276159	0.17807565	3.1289577	21	9 21.3	18.0
59969 1999 RV_{246}	14.7	X	315.97985	185.69240	187.24006	15.40463	0.0787624	0.17842449	3.1248780	21	8 22.8	19.0
59970 1999 RZ_{246}	16.1	X	321.76489	322.76737	14.59422	2.30363	0.2083070	0.26490485	2.4010955	21	7 1.9	18.2
59971 1999 RP_{247}	15.8	X	289.55127	299.06921	53.67009	4.92957	0.1985506	0.30720386	2.1752956	21	5 29.6	18.2
59972 1999 RL_{248}	14.8	X	132.27974	73.83548	238.27274	8.74757	0.0902094	0.19483847	2.9468152	21	—	—
59973 1999 RY_{252}	13.8	X	72.53037	241.03714	232.50846	9.38740	0.1080735	0.15699791	3.4030902	21	3 17.7	18.4
59974 1999 RM_{254}	14.8	X	15.69286	110.77277	128.92832	10.23045	0.2535979	0.21946768	2.7220055	21	6 8.9	17.0
59975 1999 SE	14.3	X	299.92334	171.65679	195.09793	12.01535	0.2036095	0.17277765	3.1925987	21	7 5.0	18.7
59976 1999 SU_{4}	14.2	X	21.18646	106.48148	208.47165	17.86036	0.1239917	0.18035312	3.1025606	21	9 19.7	18.3
59977 1999 SD_{5}	13.7	X	281.75878	260.10066	137.56995	18.92515	0.2072003	0.17352246	3.1834565	21	7 20.8	18.2
59978 1999 SR_{5}	15.9	X	150.95650	272.17734	13.84955	21.15559	0.0774298	0.37355506	1.9094119	21	—	—
59979 1999 SV_{5}	16.2	X	24.09064	256.96997	168.50360	24.50571	0.1887251	0.37019517	1.9209477	21	—	—
59980 1999 SG_{6}	13.2	X	300.31426	307.28255	142.59766	11.76132	0.0299559	0.18485534	3.0519779	21	11 18.8	17.6
59981 1999 SZ_{6}	14.5	X	11.63319	335.98350	12.70309	11.15688	0.3778925	0.18279431	3.0748760	21	11 25.1	17.7
59982 1999 SF_{9}	13.1	X	359.55311	326.96663	109.09813	11.72920	0.0800633	0.19096778	2.9865009	21	—	—
59983 1999 SN_{10}	13.5	X	29.15941	353.65611	57.74921	11.21113	0.0907462	0.19269794	2.9685976	21	—	—
59984 1999 SZ_{10}	14.6	X	133.04499	250.01399	76.97139	9.85244	0.1786841	0.19246696	2.9709722	21	—	—
59985 1999 SN_{11}	12.8	X	64.64063	263.35043	41.36551	15.85836	0.1028259	0.18060320	3.0996959	21	11 5.7	17.1
59986 1999 SE_{15}	13.7	X	38.55120	40.14368	208.09814	23.30466	0.0850690	0.17261224	3.1946380	21	7 13.4	18.4
59987 1999 SG_{16}	13.5	X	337.44103	120.43926	235.71655	12.64348	0.0481691	0.17847711	3.1242638	21	8 31.6	18.0
59988 1999 SH_{16}	13.9	X	126.21397	339.52308	286.36815	11.53596	0.1695104	0.23385329	2.6091982	21	12 4.8	18.2
59989 1999 SL_{16}	15.6	X	83.47879	1.31521	264.44431	5.01199	0.2100961	0.27352165	2.3503989	21	11 2.7	19.1
59990 1999 SA_{17}	14.3	X	48.96500	93.01724	193.58031	25.89811	0.1885376	0.18244270	3.0788253	21	10 7.5	18.3
59991 1999 SP_{18}	13.4	X	290.23803	297.24322	49.01516	12.50627	0.0583466	0.17123255	3.2117754	21	6 17.3	17.9
59992 1999 SZ_{18}	14.2	X	109.14708	268.31364	79.22098	11.68757	0.1102125	0.19279301	2.9676217	21	—	—
59993 1999 SL_{20}	13.5	X	335.38178	300.83007	83.31738	14.62061	0.1443561	0.17850240	3.1239687	21	10 15.2	17.4
59994 1999 SH_{22}	15.6	X	110.02076	115.25192	171.38985	4.90385	0.2998096	0.23721334	2.5845006	21	12 21.6	20.4
59995 1999 SP_{24}	14.8	X	17.03269	120.41185	222.79110	8.91071	0.1048939	0.18272833	3.0756161	21	10 20.7	18.7
59996 1999 TZ	15.5	X	141.96141	178.08636	188.10708	4.69205	0.2918508	0.24347864	2.5399713	21	2 8.2	19.5
59997 1999 TN_{1}	14.1	X	25.11482	107.26224	205.27942	15.43485	0.2383247	0.17874860	3.1210996	21	10 11.0	17.7
59998 1999 TS_{2}	13.0	X	308.15447	253.15703	76.38605	23.79454	0.1280124	0.17088923	3.2160756	21	6 10.9	17.2
59999 1999 TP_{3}	13.2	X	31.93890	12.15406	17.68163	10.76910	0.0979578	0.18544428	3.0455128	21	—	—
60000 Miminko	14.6	X	232.42316	293.93256	192.03746	9.33647	0.0273591	0.17836336	3.1255920	21	10 5.3	18.9