Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68001 2000 XS_{33}	14.8	X	335.83691	301.39610	31.49437	7.14580	0.1425751	0.27062227	2.3671568	21	8 7.5	17.0
68002 2000 XK_{34}	13.6	X	183.04913	234.08327	328.00995	15.82910	0.2601603	0.17863701	3.1223991	21	10 23.1	19.3
68003 2000 XJ_{35}	14.9	X	254.09101	173.91122	327.84934	14.02497	0.0548846	0.23065062	2.6332957	21	11 21.1	18.8
68004 2000 XD_{38}	15.2	X	233.35717	359.67902	14.02922	14.49679	0.1087848	0.25881506	2.4386138	21	4 30.8	18.9
68005 2000 XQ_{47}	15.6	X	97.03709	80.23170	287.07357	9.07712	0.0536488	0.29341737	2.2429117	21	—	—
68006 2000 XR_{48}	15.5	X	168.16677	321.76089	2.93802	10.02693	0.1122706	0.29527163	2.2335117	21	—	—
68007 2000 XD_{52}	15.3	X	303.30808	14.81680	340.46876	5.80450	0.1292611	0.26983684	2.3717480	21	7 9.6	17.9
68008 2000 XB_{54}	15.8	X	90.29983	237.87497	112.98177	6.47402	0.1859553	0.29288116	2.2456484	21	—	—
68009 2000 YD_{4}	15.3	X	160.99597	113.79938	283.89193	4.40568	0.1140267	0.30294990	2.1956116	21	3 12.5	18.3
68010 2000 YL_{6}	15.8	X	125.35061	41.35189	310.56735	5.15012	0.2049886	0.29474743	2.2361591	21	—	—
68011 2000 YK_{7}	15.3	X	161.75689	83.47837	310.48915	5.40770	0.1184138	0.25565427	2.4586725	21	3 14.9	19.0
68012 2000 YQ_{7}	14.4	X	11.80970	233.53961	87.63083	18.53817	0.1731802	0.22476438	2.6790720	21	10 9.8	17.7
68013 2000 YT_{7}	14.9	X	207.82146	246.18004	102.63736	14.24456	0.1504876	0.20932348	2.8092523	21	3 18.7	19.7
68014 2000 YF_{10}	13.1	X	89.47609	336.44908	305.25951	20.67654	0.0174945	0.17399314	3.1777127	21	10 15.3	18.1
68015 2000 YR_{10}	16.0	X	284.05075	246.22642	135.13317	4.64753	0.1815868	0.27173019	2.3607181	21	7 7.1	18.7
68016 2000 YW_{10}	14.7	X	111.82048	319.77599	296.67912	13.77914	0.0729913	0.22757734	2.6569500	21	10 28.9	18.9
68017 2000 YX_{10}	15.5	X	115.06584	90.62575	293.24998	10.68250	0.1269789	0.24703876	2.5155096	21	1 10.4	18.5
68018 2000 YQ_{12}	16.2	X	279.12156	104.01059	299.12441	3.29966	0.1792875	0.27167646	2.3610293	21	8 1.2	19.0
68019 2000 YS_{15}	15.5	X	207.88356	58.96968	1.48996	4.17917	0.1881817	0.26315818	2.4117084	21	6 4.5	19.5
68020 2000 YJ_{17}	15.4	X	88.34558	70.34688	326.21558	4.88904	0.1938003	0.29357027	2.2421328	21	—	—
68021 Taiki	15.8	X	296.96429	295.36241	115.48912	2.85763	0.2116896	0.27549251	2.3391758	21	9 9.1	17.8
68022 2000 YP_{18}	14.6	X	284.88384	194.46268	305.95956	5.49431	0.2689771	0.23109551	2.6299150	21	12 7.9	17.2
68023 2000 YW_{18}	13.3	X	173.74649	201.00073	326.61213	21.77183	0.0555806	0.16945330	3.2342186	21	9 9.3	18.3
68024 2000 YY_{19}	15.3	X	315.74105	89.09414	313.32232	5.42999	0.2131264	0.27664123	2.3326958	21	10 3.9	16.9
68025 2000 YV_{21}	14.7	X	227.06203	106.08062	303.63651	7.13612	0.1674009	0.26504879	2.4002262	21	6 10.3	18.4
68026 2000 YU_{24}	14.1	X	115.73822	104.65542	103.99517	2.99534	0.1480857	0.17151153	3.2082916	21	9 12.2	19.1
68027 2000 YN_{26}	15.1	X	231.63560	205.61152	183.90688	10.10030	0.1963811	0.21892911	2.7264678	21	5 21.3	19.7
68028 2000 YD_{28}	15.5	X	303.27433	146.09637	197.63171	13.41345	0.2093217	0.22377626	2.6869528	21	6 8.9	19.0
68029 2000 YG_{28}	14.7	X	178.52518	61.46703	168.92078	16.86629	0.1652981	0.18013033	3.1051183	21	12 3.5	20.1
68030 2000 YL_{28}	14.7	X	73.13687	56.46422	143.53622	16.17579	0.2328728	0.21539361	2.7562219	21	7 27.2	18.5
68031 2000 YK_{29}	18.1	X	203.45879	31.89438	123.64834	15.17332	0.1285184	0.61034802	1.3764202	21	12 23.9	17.5
68032 2000 YV_{30}	14.7	X	60.75389	214.56533	313.70398	14.17512	0.0815472	0.20566578	2.8424622	21	4 27.5	18.7
68033 2000 YQ_{32}	15.6	X	67.96164	219.76747	141.62331	4.64489	0.2073625	0.28598160	2.2816235	21	—	—
68034 2000 YV_{33}	15.6	X	199.58143	199.14748	199.00238	4.44528	0.1812702	0.25929345	2.4356134	21	4 30.9	19.5
68035 2000 YB_{34}	14.8	X	247.10312	329.23945	137.49980	13.78386	0.1174388	0.22339365	2.6900200	21	9 25.4	18.7
68036 2000 YH_{35}	14.4	X	35.79457	126.34725	278.42389	12.74971	0.1007250	0.23995602	2.5647691	21	—	—
68037 2000 YU_{35}	15.5	X	2.85072	92.64727	243.35371	5.32322	0.0668811	0.27322854	2.3520795	21	9 26.6	18.1
68038 2000 YP_{39}	15.1	X	187.14920	235.20434	289.32211	8.66705	0.0815277	0.22516363	2.6759042	21	9 25.9	19.2
68039 2000 YQ_{39}	14.7	X	29.71839	130.26044	118.94667	13.98998	0.0531764	0.21503267	2.7593053	21	7 4.1	18.3
68040 2000 YW_{41}	15.7	X	1.90715	233.93377	108.28748	5.50833	0.1737689	0.27536497	2.3398980	21	10 22.8	17.8
68041 2000 YE_{42}	15.7	X	69.57678	63.71972	275.09298	4.35029	0.2142061	0.28445846	2.2897609	21	—	—
68042 2000 YR_{42}	15.5	X	167.76256	112.90507	260.39245	2.34309	0.1458512	0.25325916	2.4741495	21	2 26.7	19.2
68043 2000 YT_{42}	15.9	X	338.04123	306.83353	108.74481	5.89766	0.1086704	0.28056038	2.3109213	21	12 18.4	18.1
68044 2000 YX_{42}	15.5	X	280.54026	208.93979	149.81979	5.25280	0.1808758	0.26622025	2.3931798	21	6 1.3	18.7
68045 2000 YN_{44}	14.6	X	136.58286	338.59643	282.08053	13.31748	0.0708811	0.23133496	2.6280999	21	12 6.0	18.5
68046 2000 YP_{45}	15.4	X	266.18168	201.50889	175.31419	2.74576	0.2368758	0.26745882	2.3857857	21	5 31.7	18.9
68047 2000 YK_{47}	15.4	X	174.85813	252.45747	164.21676	2.08561	0.1488446	0.25854774	2.4402944	21	5 1.2	19.1
68048 2000 YE_{48}	15.7	X	200.70594	214.99698	150.08017	3.00530	0.2144137	0.25636867	2.4541028	21	3 22.4	19.8
68049 2000 YK_{49}	15.4	X	231.20225	80.42437	285.42238	6.69621	0.1834437	0.26015241	2.4302492	21	4 14.7	19.5
68050 2000 YR_{50}	14.4	X	4.68460	52.27331	281.23047	11.09307	0.1968539	0.27252868	2.3561046	21	10 6.7	16.7
68051 2000 YU_{51}	15.7	X	11.06591	41.77846	299.70400	3.16464	0.2661553	0.27695598	2.3309281	21	11 21.3	17.8
68052 2000 YD_{52}	15.8	X	237.18038	71.43495	279.82305	0.54902	0.1857587	0.25935347	2.4352376	21	4 4.6	19.8
68053 2000 YJ_{53}	15.8	X	294.03956	319.06957	95.98738	3.30214	0.2093817	0.27473607	2.3434675	21	9 10.9	18.0
68054 2000 YQ_{54}	15.6	X	193.44275	311.39121	102.64829	3.58945	0.1683852	0.26087087	2.4257851	21	5 15.9	19.6
68055 2000 YF_{56}	15.6	X	55.92114	236.49887	113.28602	7.28112	0.1708711	0.28309747	2.2970938	21	—	—
68056 2000 YM_{56}	15.9	X	198.44202	185.41119	191.63261	2.52923	0.1882324	0.25786337	2.4446102	21	4 3.1	19.9
68057 2000 YL_{60}	14.0	X	162.28566	306.32453	290.58206	15.41894	0.2122963	0.17960480	3.1111725	21	11 22.9	19.5
68058 2000 YY_{60}	15.6	X	305.64532	222.25509	162.73059	2.51885	0.2297768	0.27284234	2.3542986	21	8 10.5	17.7
68059 2000 YC_{61}	13.9	X	178.35149	293.36743	289.56424	14.90039	0.1285546	0.18094259	3.0958186	21	11 22.5	19.0
68060 2000 YT_{62}	13.9	X	187.56439	80.03719	121.64211	17.75943	0.0879996	0.17975968	3.1093852	21	11 16.3	19.0
68061 2000 YF_{63}	16.3	X	282.04494	112.21801	306.36996	1.16405	0.2150073	0.27256762	2.3558802	21	8 22.5	19.0
68062 2000 YT_{64}	15.5	X	329.44795	154.68667	150.38074	2.92665	0.1094099	0.21525043	2.7574439	21	6 12.9	18.8
68063 2000 YJ_{66}	15.4	X	336.48921	50.28146	308.86519	5.72167	0.4580800	0.27661432	2.3328471	21	8 19.4	14.2
68064 2000 YU_{67}	14.9	X	181.85719	294.75919	175.53638	6.98442	0.1281760	0.26168304	2.4207633	21	7 15.6	18.6
68065 2000 YG_{68}	15.0	X	305.78785	329.84515	143.17257	4.14555	0.2238172	0.23160001	2.6260944	21	12 20.9	17.3
68066 2000 YE_{71}	16.1	X	257.03809	305.34120	142.53413	2.88560	0.1884909	0.27417025	2.3466906	21	9 2.9	19.2
68067 2000 YM_{72}	14.6	X	291.20627	239.18471	268.70773	20.86236	0.0626745	0.23905469	2.5712119	21	—	—
68068 2000 YF_{73}	15.2	X	317.68236	169.34324	259.42808	8.92726	0.0713195	0.28083020	2.3094408	21	11 30.1	17.6
68069 2000 YN_{73}	15.5	X	275.83567	74.41381	248.19272	2.66818	0.0963905	0.26223640	2.4173566	21	4 16.8	18.6
68070 2000 YR_{73}	13.9	X	160.86092	91.99274	82.29954	16.32399	0.0495399	0.17680252	3.1439604	21	9 19.3	18.9
68071 2000 YV_{80}	15.5	X	40.61090	101.12325	230.76592	3.92893	0.2269829	0.28234167	2.3011913	21	12 16.5	18.4
68072 2000 YV_{84}	15.9	X	255.52168	258.17141	134.50276	4.59637	0.1903781	0.26840926	2.3801503	21	6 15.8	19.2
68073 2000 YZ_{84}	15.4	X	248.82422	237.78602	128.79385	7.26738	0.2050137	0.26465399	2.4026126	21	5 6.4	19.2
68074 2000 YH_{85}	15.9	X	205.09566	234.13921	183.26292	1.60332	0.1918781	0.26420385	2.4053408	21	5 29.9	19.7
68075 2000 YN_{86}	15.0	X	268.47201	131.90023	197.29796	2.70592	0.1923444	0.26129291	2.4231723	21	4 6.2	18.3
68076 2000 YT_{87}	15.4	X	228.97086	226.76629	133.74506	3.15505	0.1850252	0.26029389	2.4293685	21	4 10.4	19.2
68077 2000 YM_{90}	15.2	X	39.49796	110.11733	120.52719	3.88043	0.0479699	0.21296725	2.7771169	21	6 22.5	18.8
68078 2000 YV_{93}	14.5	X	50.56318	169.82136	121.73469	7.51433	0.1060632	0.17627483	3.1502318	21	10 6.4	18.8
68079 2000 YM_{95}	15.5	X	92.10715	136.95422	256.70706	5.30949	0.0658065	0.24506700	2.5289845	21	—	—
68080 2000 YO_{96}	15.8	X	54.58072	255.37019	129.74245	5.89056	0.1474285	0.23777606	2.5804214	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68081 2000 YQ_{97}	15.7	X	296.18396	15.79841	97.32399	1.22146	0.1052560	0.23155104	2.6264646	21	12 12.5	18.4
68082 2000 YF_{101}	15.4	X	351.49845	284.71882	122.69018	9.96899	0.1597780	0.28350460	2.2948941	21	—	—
68083 2000 YH_{101}	15.5	X	339.03885	217.67955	152.07297	7.73910	0.1593681	0.27737140	2.3286002	21	10 15.8	17.4
68084 2000 YY_{102}	14.7	X	213.60978	350.24587	142.92582	14.96036	0.0555835	0.22240383	2.6979954	21	9 26.8	18.6
68085 2000 YH_{104}	12.8	X	185.07564	246.78671	338.88927	25.18436	0.2361380	0.17610979	3.1521997	21	11 20.4	18.7
68086 2000 YX_{104}	14.5	X	323.05651	334.88456	128.38778	13.30079	0.2579265	0.23220842	2.6215053	21	—	—
68087 2000 YP_{105}	13.5	X	345.21674	0.12701	4.82058	12.44065	0.0544627	0.21777791	2.7360677	21	10 2.9	17.0
68088 2000 YC_{107}	15.5	X	344.25611	297.89444	78.72339	6.77070	0.1319510	0.27775109	2.3264776	21	11 4.6	17.5
68089 2000 YS_{108}	15.6	X	321.81759	62.56877	345.02459	2.48534	0.1545100	0.27755117	2.3275946	21	11 3.1	17.3
68090 2000 YN_{109}	15.6	X	306.63123	328.51952	156.83713	8.06991	0.1415805	0.23537477	2.5979420	21	—	—
68091 2000 YR_{109}	15.6	X	289.64585	35.79205	306.05475	6.81955	0.1130504	0.26377239	2.4079631	21	5 29.7	18.6
68092 2000 YV_{109}	15.6	X	300.98926	296.96927	69.98892	3.24288	0.2207518	0.27047912	2.3679920	21	7 6.1	17.9
68093 2000 YC_{110}	15.7	X	40.19435	326.44941	78.77044	5.47404	0.1515662	0.28734902	2.2743793	21	—	—
68094 2000 YU_{110}	15.6	X	311.36756	305.56810	65.90226	3.97677	0.2523639	0.27272693	2.3549627	21	7 28.9	17.5
68095 2000 YJ_{112}	15.2	X	44.74701	9.17155	338.41353	5.09256	0.1583960	0.28015216	2.3131656	21	—	—
68096 2000 YW_{113}	15.5	X	307.10675	65.08193	299.85191	5.00729	0.2185863	0.27194077	2.3594992	21	7 14.7	17.9
68097 2000 YJ_{115}	15.0	X	4.88871	333.83571	107.02032	8.41030	0.0955273	0.23701463	2.5859450	21	—	—
68098 2000 YR_{116}	14.1	X	232.42904	41.36186	120.44472	17.70628	0.0658006	0.17973788	3.1096366	21	11 19.1	18.9
68099 2000 YX_{118}	14.4	X	152.89224	177.79822	311.59432	11.42635	0.0694056	0.21481509	2.7611682	21	7 9.9	18.5
68100 2000 YV_{120}	16.0	X	94.19986	276.46539	51.82225	4.41577	0.1511248	0.28810166	2.2704166	21	—	—
68101 2000 YK_{121}	15.2	X	25.54367	206.86057	150.05356	23.65671	0.1724620	0.28527097	2.2854111	21	12 25.4	18.4
68102 2000 YZ_{121}	15.3	X	93.13699	211.87178	195.40488	13.15702	0.1541996	0.24575803	2.5242415	21	1 11.2	18.5
68103 2000 YM_{122}	14.6	X	332.34458	281.62863	192.94155	12.16610	0.1396269	0.23957354	2.5674982	21	—	—
68104 2000 YU_{125}	14.4	X	278.27333	218.93824	345.48045	10.81918	0.0753508	0.19210548	2.9746979	21	—	—
68105 2000 YV_{126}	14.3	X	47.61971	321.21201	327.39467	10.92051	0.1560713	0.21987947	2.7186060	21	10 2.9	18.0
68106 2000 YK_{128}	15.2	X	339.20148	16.18047	346.04896	5.27825	0.2160607	0.27318537	2.3523273	21	9 28.7	16.6
68107 2000 YG_{132}	15.4	X	354.96594	89.06389	355.23635	3.67051	0.0885404	0.23619577	2.5919183	21	—	—
68108 2000 YN_{132}	13.6	X	46.86563	86.44394	315.27463	14.39129	0.1270002	0.23317884	2.6142270	21	—	—
68109 Naomipasachoff	15.0	X	233.70970	171.07222	119.00139	8.73020	0.1019400	0.25367738	2.4714295	21	1 19.7	18.6
68110 2000 YL_{135}	16.2	X	61.88227	255.65624	151.54311	5.48840	0.1878899	0.29333727	2.2433200	21	—	—
68111 2000 YT_{139}	15.3	X	33.84112	246.24737	122.11653	11.62521	0.0701767	0.23044504	2.6348616	21	12 21.7	18.9
68112 2000 YC_{143}	12.6	X	301.39928	24.76248	48.86278	5.05559	0.0833360	0.08242466	5.2291522	21	10 9.8	19.3
68113 2000 YE_{143}	15.8	X	226.57925	90.65204	244.68947	4.41695	0.0809297	0.25666403	2.4522197	21	3 7.9	19.3
68114 Deákferenc	15.5	X	339.54931	45.19462	286.16262	3.59794	0.2491564	0.27182630	2.3601616	21	7 31.9	16.7
68115 2001 AA_{2}	15.8	X	104.95480	326.63911	40.51183	4.84706	0.1630156	0.29142445	2.2531256	21	—	—
68116 2001 AZ_{3}	15.7	X	321.32406	186.55777	209.48606	3.35775	0.1335902	0.27543857	2.3394811	21	10 15.6	17.5
68117 2001 AF_{5}	14.6	X	212.64916	285.61429	157.54312	4.56632	0.0739053	0.21655211	2.7463830	21	7 15.8	18.5
68118 2001 AO_{5}	14.9	X	31.32924	154.00410	245.66321	3.26327	0.1328710	0.23591059	2.5940067	21	—	—
68119 2001 AX_{5}	15.7	X	252.01268	170.03556	225.69411	4.47282	0.2429273	0.26846669	2.3798109	21	6 10.2	19.3
68120 2001 AT_{10}	15.7	X	323.72386	207.01738	160.25272	4.10569	0.1808144	0.27191942	2.3596227	21	8 30.4	17.5
68121 2001 AS_{11}	15.6	X	67.23346	142.25835	243.86389	4.82060	0.1873110	0.23996676	2.5646926	21	—	—
68122 2001 AY_{11}	15.7	X	88.74016	245.35070	184.43750	2.75016	0.1122977	0.24730793	2.5136840	21	1 30.2	18.6
68123 2001 AU_{12}	15.4	X	0.27319	294.51488	153.68569	4.87152	0.1457321	0.23755417	2.5820280	21	—	—
68124 2001 AF_{15}	15.0	X	72.94167	6.33543	141.39508	15.67588	0.0852180	0.20490626	2.8494818	21	5 1.3	19.0
68125 2001 AO_{15}	14.7	X	156.40766	6.52182	150.08019	5.71974	0.0560058	0.21647659	2.7470217	21	8 16.5	18.6
68126 2001 AY_{15}	15.3	X	99.48839	226.61596	167.50342	2.55581	0.2174444	0.24573414	2.5244051	21	1 15.5	18.2
68127 2001 AZ_{15}	14.9	X	17.27735	102.46014	274.53142	4.05969	0.2583814	0.28143042	2.3061560	21	—	—
68128 2001 AC_{17}	14.6	X	1.69734	264.53284	132.64104	13.02003	0.1824401	0.23048372	2.6345668	21	12 28.4	17.6
68129 2001 AH_{17}	14.4	X	219.11686	83.62331	320.27922	11.51510	0.2364492	0.26137978	2.4226354	21	5 20.0	18.7
68130 2001 AO_{17}	12.8	X	72.92061	10.45305	319.38578	13.07998	0.1847920	0.22615754	2.6680584	21	—	—
68131 2001 AR_{17}	14.0	X	303.20559	255.93910	314.11229	8.96689	0.0534172	0.19184497	2.9773903	21	1 15.4	18.3
68132 2001 AG_{18}	13.7	X	224.60101	202.94205	347.29297	14.40438	0.1187613	0.17787294	3.1313345	21	11 28.2	18.7
68133 2001 AQ_{18}	13.6	X	85.10698	34.80980	349.52449	13.16803	0.0447839	0.23325885	2.6136291	21	—	—
68134 2001 AT_{18}	14.2	X	58.51585	119.76968	279.35265	26.60008	0.2838498	0.28644435	2.2791656	21	—	—
68135 2001 AJ_{20}	15.6	X	240.93840	3.33639	354.50388	3.62382	0.2671861	0.26199303	2.4188534	21	4 10.7	19.7
68136 2001 AZ_{20}	15.1	X	211.05063	226.79033	149.40584	6.72137	0.0784009	0.25921297	2.4361175	21	4 17.4	18.6
68137 2001 AF_{24}	14.2	X	173.44735	92.57659	125.37125	17.07730	0.0587051	0.18018975	3.1044356	21	11 21.4	19.2
68138 2001 AU_{24}	13.9	X	94.99315	106.23098	162.23340	9.23279	0.2638628	0.17466035	3.1696148	21	11 13.5	19.2
68139 2001 AV_{24}	15.4	X	14.41252	174.21237	248.12130	6.35001	0.0892150	0.28466908	2.2886314	21	—	—
68140 2001 AA_{27}	15.4	X	149.83439	330.47302	3.14499	6.29698	0.1842786	0.29365372	2.2417080	21	—	—
68141 2001 AX_{29}	15.6	X	340.40778	313.09674	63.14019	7.25996	0.1640219	0.27746068	2.3281007	21	10 28.8	17.4
68142 2001 AX_{31}	14.7	X	27.06055	30.48286	60.92593	5.61722	0.0751297	0.29098901	2.2553727	21	—	—
68143 2001 AK_{36}	15.3	X	254.62559	357.13710	353.99236	6.45495	0.1846353	0.26048862	2.4281576	21	4 19.2	19.0
68144 Mizser	15.3	X	0.11279	210.88006	104.21393	4.10868	0.0582179	0.21953891	2.7214167	21	8 20.9	18.6
68145 2001 AF_{44}	14.5	X	17.61560	65.41740	349.84637	22.01655	0.1977504	0.28556867	2.2838225	21	—	—
68146 2001 AJ_{44}	15.1	X	326.33278	42.86896	359.68868	21.19967	0.2706110	0.27724875	2.3292869	21	10 24.1	16.6
68147 2001 AW_{44}	13.2	X	164.68558	292.76110	329.44776	15.48691	0.2090997	0.18027123	3.1035001	21	12 26.3	18.7
68148 2001 AG_{45}	13.3	X	228.50967	222.04838	330.80787	17.66633	0.1803328	0.18098325	3.0953549	21	11 29.1	18.4
68149 2001 AM_{45}	15.4	X	104.38611	313.94804	18.40042	4.14171	0.2040807	0.28855755	2.2680246	21	—	—
68150 2001 AC_{49}	15.6	X	251.15225	280.68465	60.19018	7.10905	0.1393867	0.26089097	2.4256605	21	4 11.2	19.2
68151 2001 AO_{49}	15.7	X	262.98767	262.57872	179.09363	4.87015	0.0942209	0.22324760	2.6911930	21	9 11.7	19.4
68152 2001 BO	14.6	X	351.20545	311.18634	117.31636	15.49604	0.0686692	0.23178213	2.6247186	21	—	—
68153 2001 BV	15.2	X	311.90328	76.41423	354.99522	7.38268	0.0880174	0.27544040	2.3394707	21	11 20.0	17.8
68154 2001 BD_{1}	14.6	X	227.40136	313.96128	229.65721	9.94369	0.0578175	0.18048471	3.1010524	21	12 4.8	19.0
68155 2001 BM_{9}	15.3	X	226.83320	272.79528	71.02382	6.85975	0.1554963	0.25473411	2.4645898	21	3 22.5	19.2
68156 2001 BE_{11}	14.0	X	336.88622	166.66106	282.24586	13.31300	0.0689641	0.18376313	3.0640591	21	—	—
68157 2001 BN_{13}	14.3	X	149.61801	33.38616	290.58577	9.96354	0.1018568	0.19177847	2.9780786	21	—	—
68158 2001 BV_{14}	14.0	X	323.44378	34.93323	320.65093	13.67410	0.1703961	0.21793389	2.7347620	21	8 8.1	16.8
68159 2001 BJ_{15}	14.3	X	155.22633	331.98207	337.56533	8.76579	0.0275513	0.18770172	3.0210451	21	—	—
68160 2001 BC_{18}	15.6	X	343.80954	181.20773	179.81743	8.66402	0.1774760	0.27340420	2.3510720	21	10 10.4	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68161 2001 BQ_{21}	15.1	X	271.86275	203.08121	85.81403	12.79993	0.2157247	0.25818791	2.4425612	21	2 20.8	19.1
68162 2001 BY_{21}	15.8	X	43.64652	156.22473	214.04797	1.72047	0.1351834	0.28532415	2.2851271	21	—	—
68163 2001 BJ_{22}	15.5	X	97.78172	296.74921	69.79394	8.26652	0.2309835	0.29168780	2.2517692	21	—	—
68164 2001 BD_{26}	14.9	X	111.73569	8.97268	134.92973	7.87317	0.0691828	0.20974857	2.8054554	21	6 9.4	18.9
68165 2001 BH_{28}	15.1	X	262.48848	148.09314	290.04268	2.81028	0.0534459	0.22114853	2.7081955	21	9 11.4	18.8
68166 2001 BM_{28}	15.0	X	16.04850	288.70439	130.18152	17.98941	0.1733577	0.23597763	2.5935154	21	—	—
68167 2001 BV_{28}	15.0	X	253.33221	271.96218	142.92012	6.74147	0.0463983	0.21669927	2.7451395	21	7 31.8	18.8
68168 2001 BN_{30}	15.2	X	231.24784	259.33913	153.40925	9.52866	0.2695513	0.26557745	2.3970398	21	6 12.4	19.4
68169 2001 BD_{32}	15.2	X	269.25480	304.51293	140.30530	13.66282	0.0993634	0.22279311	2.6948517	21	9 28.2	18.8
68170 2001 BS_{32}	15.3	X	33.89496	295.89513	146.80823	9.50954	0.2606830	0.24125062	2.5555855	21	—	—
68171 2001 BL_{33}	14.1	X	279.95973	216.95398	320.43419	10.32635	0.1023485	0.18592610	3.0402489	21	—	—
68172 2001 BE_{34}	13.9	X	323.37210	182.06371	331.11072	9.31221	0.0302826	0.18851756	3.0123228	21	—	—
68173 2001 BG_{37}	15.5	X	288.70201	243.98809	146.93857	4.86411	0.0788888	0.22023845	2.7156510	21	8 12.3	19.0
68174 2001 BY_{39}	14.7	X	251.69175	332.21933	256.11776	5.33168	0.0901048	0.18988728	2.9978194	21	—	—
68175 2001 BL_{45}	14.8	X	88.51431	151.60306	265.52248	4.21909	0.2483667	0.24530075	2.5273776	21	2 2.6	17.5
68176 2001 BK_{46}	14.9	X	175.57204	287.74289	220.20407	8.45041	0.1377996	0.21833028	2.7314509	21	8 23.3	19.5
68177 2001 BY_{46}	13.9	X	357.17235	51.65215	264.36928	12.72624	0.2268330	0.21754108	2.7380531	21	8 14.0	16.5
68178 2001 BJ_{47}	14.1	X	18.59467	25.48126	265.12495	14.17592	0.1808658	0.21552359	2.7551136	21	8 18.6	17.3
68179 2001 BO_{47}	14.0	X	68.45328	323.72543	319.03429	9.77020	0.1080731	0.17063203	3.2193066	21	10 9.5	18.7
68180 2001 BB_{48}	13.7	X	269.69448	44.61946	332.37120	8.39711	0.1766200	0.21262176	2.7801244	21	6 13.6	17.9
68181 2001 BK_{49}	14.3	X	91.06629	16.06310	325.18760	12.47141	0.1822901	0.23087609	2.6315810	21	—	—
68182 2001 BS_{49}	14.7	X	147.81589	64.82858	269.60268	12.62338	0.1858433	0.23987560	2.5653424	21	—	—
68183 2001 BL_{50}	15.8	X	257.04289	203.45775	178.49230	9.75284	0.2910648	0.26579323	2.3957423	21	5 25.0	19.8
68184 2001 BO_{50}	15.3	X	317.06516	186.18564	181.62141	9.60406	0.2302957	0.27060623	2.3672503	21	8 4.8	17.3
68185 2001 BX_{50}	14.4	X	133.37307	349.13945	2.57725	14.09918	0.1809038	0.23859592	2.5745068	21	1 4.2	18.3
68186 2001 BZ_{51}	15.6	X	21.65054	183.18783	121.15071	3.18017	0.0714583	0.21998093	2.7177700	21	9 9.5	18.9
68187 2001 BY_{53}	14.7	X	21.53276	184.83295	143.23678	16.43084	0.1326270	0.22384712	2.6863858	21	10 25.2	18.2
68188 2001 BZ_{57}	15.7	X	252.07478	156.03248	300.36112	2.92252	0.0477941	0.22245257	2.6976013	21	9 22.7	19.5
68189 2001 BC_{58}	15.4	X	191.36419	229.97924	140.88548	9.04577	0.1968625	0.25358309	2.4720420	21	3 23.5	19.5
68190 2001 BD_{58}	14.4	X	214.83978	280.90973	300.11635	5.61915	0.0182641	0.18523027	3.0478581	21	—	—
68191 2001 BG_{60}	13.3	X	247.64208	283.83311	337.42778	9.79110	0.0726927	0.18983791	2.9983392	21	1 13.6	17.9
68192 2001 BV_{61}	13.9	X	151.67501	340.15844	341.87576	14.54828	0.1100986	0.23579221	2.5948748	21	—	—
68193 2001 BA_{62}	14.6	X	234.75083	54.61377	168.20438	11.53690	0.0593590	0.18709601	3.0275620	21	—	—
68194 2001 BF_{64}	15.8	X	336.74077	244.26816	161.48287	9.67548	0.1882114	0.27674808	2.3320953	21	12 8.4	17.8
68195 2001 BT_{64}	14.6	X	212.69393	54.82014	338.98908	10.78825	0.0743120	0.20578328	2.8413801	21	5 9.5	19.0
68196 2001 BP_{65}	13.9	X	257.52656	324.25553	277.34006	9.23912	0.0704124	0.19120048	2.9840773	21	—	—
68197 2001 BU_{65}	13.7	X	141.07407	303.66130	306.43576	16.83760	0.1496664	0.17551670	3.1592967	21	11 18.3	19.1
68198 2001 BP_{71}	14.6	X	233.51040	227.20122	334.87210	2.98924	0.0595089	0.18438499	3.0571659	21	—	—
68199 2001 BL_{74}	15.7	X	76.75542	109.56759	323.87577	6.95561	0.1945581	0.24482250	2.5306679	21	1 29.2	18.0
68200 2001 BQ_{76}	14.7	X	143.91479	334.53263	292.15996	1.24853	0.0562720	0.18086670	3.0966846	21	12 12.5	19.1
68201 2001 BP_{77}	15.3	X	88.64016	151.97928	247.37925	6.27128	0.1697510	0.24355460	2.5394431	21	—	—
68202 2001 BM_{78}	14.7	X	196.85759	19.32218	260.90435	10.05540	0.0841711	0.19039186	2.9925205	21	—	—
68203 2001 BC_{80}	15.8	X	283.66469	262.73395	126.81690	1.88815	0.1887562	0.26655873	2.3911534	21	7 17.4	18.5
68204 2001 BR_{80}	15.1	X	73.20021	69.35616	151.99419	9.49339	0.0840313	0.21486432	2.7607464	21	8 1.8	18.9
68205 2001 CS	14.4	X	4.85878	252.97596	123.06964	28.24312	0.2445008	0.23334428	2.6129912	21	12 19.9	17.6
68206 2001 CX_{2}	13.8	X	224.60788	243.20979	346.22261	12.32647	0.1296788	0.18423780	3.0587939	21	—	—
68207 2001 CE_{3}	14.4	X	142.43393	165.09428	137.20158	11.47981	0.0558148	0.18419661	3.0592500	21	—	—
68208 2001 CX_{3}	15.2	X	82.80913	329.62722	96.40136	6.30814	0.2100585	0.24506620	2.5289899	21	2 1.5	17.7
68209 2001 CV_{6}	14.6	X	353.36905	298.64962	346.02504	8.34077	0.1319945	0.20990853	2.8040300	21	6 25.3	17.8
68210 2001 CQ_{7}	14.2	X	183.29775	210.05202	345.21044	9.96348	0.0872738	0.17567306	3.1574219	21	10 24.9	19.1
68211 2001 CH_{12}	14.5	X	153.67193	166.52561	122.37031	10.85606	0.0438929	0.18547398	3.0451877	21	—	—
68212 2001 CM_{13}	13.5	X	157.21835	113.61968	119.38977	12.32320	0.1653503	0.17566662	3.1574990	21	11 19.6	18.9
68213 2001 CA_{22}	15.7	X	275.26979	3.93563	67.17451	2.74086	0.0986942	0.22349760	2.6891858	21	9 15.8	19.0
68214 2001 CF_{23}	14.8	X	301.07478	245.51299	306.69087	8.54806	0.0125279	0.19303991	2.9650907	21	—	—
68215 2001 CK_{25}	16.1	X	318.01023	291.09762	99.64723	3.23060	0.2083211	0.27244571	2.3565830	21	9 25.1	17.6
68216 2001 CV_{26}	16.5	X	241.80415	48.72563	18.14380	17.99340	0.3265182	0.65008642	1.3197408	21	7 6.5	18.0
68217 2001 CX_{26}	13.9	X	107.56613	126.08735	127.20317	15.19677	0.0524915	0.17052846	3.2206100	21	10 23.0	18.9
68218 Nealgalt	14.8	X	150.83755	305.80617	355.05608	2.77886	0.1105411	0.18616550	3.0376420	21	—	—
68219 2001 CJ_{38}	13.7	X	111.24858	256.47245	327.73053	25.09463	0.2601713	0.17269829	3.1935767	21	9 22.3	19.4
68220 2001 CT_{38}	14.1	X	207.35961	49.69047	332.26209	20.25900	0.2291619	0.25923049	2.4360078	21	4 5.8	18.7
68221 2001 CP_{47}	15.7	X	295.05290	48.68937	9.17407	6.06908	0.1091430	0.27308023	2.3529311	21	10 1.3	18.2
68222 2001 CQ_{47}	14.2	X	259.35134	334.23320	336.89211	12.31627	0.0724679	0.20464095	2.8519442	21	3 19.8	18.4
68223 2001 DJ	13.7	X	62.39015	307.96605	342.31040	21.51367	0.0585600	0.17057544	3.2200186	21	9 30.8	18.5
68224 2001 DG_{11}	14.2	X	301.68998	322.57095	138.58663	12.34306	0.0463535	0.18007465	3.1057584	21	12 1.4	18.6
68225 2001 DV_{12}	14.3	X	147.04866	111.17452	174.98431	13.19033	0.1642815	0.18099804	3.0951864	21	—	—
68226 2001 DM_{18}	15.3	X	292.79657	6.87530	67.26224	7.23152	0.1784921	0.27237914	2.3569669	21	10 15.1	17.5
68227 2001 DZ_{20}	13.8	X	179.80545	256.50402	27.07208	10.25163	0.1749932	0.18208932	3.0828075	21	—	—
68228 2001 DD_{22}	14.1	X	36.25633	343.70984	27.56339	16.58589	0.1943247	0.22702356	2.6612689	21	—	—
68229 2001 DL_{30}	16.3	X	94.74066	129.04686	78.33532	1.43861	0.1548871	0.25956658	2.4339045	21	8 24.8	19.5
68230 2001 DT_{32}	14.4	X	97.04337	309.63012	349.71610	12.45951	0.0409084	0.17749250	3.1358074	21	11 25.3	19.2
68231 2001 DO_{33}	13.8	X	46.12985	343.34824	6.31744	13.38403	0.1884470	0.22555971	2.6727707	21	12 30.0	17.8
68232 2001 DM_{35}	14.3	X	11.07324	325.20643	316.26160	8.50193	0.1314490	0.21238610	2.7821807	21	7 25.2	17.2
68233 2001 DY_{35}	15.8	X	301.36597	214.03696	183.77828	0.45340	0.2286049	0.27171233	2.3608215	21	8 22.9	18.0
68234 2001 DM_{38}	14.5	X	230.73785	349.98482	296.71677	10.95134	0.0146634	0.19614568	2.9337080	21	1 24.8	18.7
68235 2001 DV_{38}	14.8	X	221.47115	24.10896	159.98088	10.63492	0.0767459	0.18091784	3.0961010	21	11 28.3	19.5
68236 2001 DZ_{39}	15.8	X	334.86619	268.67935	183.34530	5.03269	0.1004973	0.23396137	2.6083945	21	—	—
68237 2001 DB_{40}	15.7	X	92.14283	180.63493	230.09883	3.33214	0.1140580	0.24473357	2.5312810	21	1 10.6	18.6
68238 2001 DP_{40}	15.4	X	339.90941	280.02455	145.45577	10.19982	0.1498460	0.22960208	2.6413067	21	12 24.0	18.3
68239 2001 DB_{47}	16.3	X	236.77183	297.57430	232.18903	3.17995	0.1870841	0.27499591	2.3419910	21	11 27.7	19.2
68240 2001 DW_{55}	15.2	X	132.91484	179.51795	149.44789	1.93474	0.1664894	0.18627781	3.0364209	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68241 2001 DT_{59}	15.9	X	227.62172	318.14975	131.02724	6.57399	0.1934491	0.26966712	2.3727431	21	7 31.5	19.5
68242 2001 DW_{59}	15.4	X	7.42721	82.96695	312.43651	6.41738	0.1007451	0.28026079	2.3125679	21	—	—
68243 2001 DO_{60}	15.4	X	320.64658	188.60220	136.35164	5.24587	0.0649893	0.21284810	2.7781532	21	7 1.6	18.9
68244 2001 DM_{68}	14.1	X	184.50260	326.13134	344.19427	11.32256	0.1471490	0.18860387	3.0114037	21	1 11.0	19.1
68245 2001 DQ_{68}	14.5	X	182.23593	268.44949	287.04787	0.71374	0.1158683	0.17441567	3.1725785	21	10 26.4	19.4
68246 2001 DS_{70}	16.2	X	322.93687	278.10164	350.64505	4.28405	0.1716516	0.29711612	2.2242584	21	3 21.1	18.5
68247 2001 DV_{70}	13.3	X	148.50795	80.22140	160.65009	3.21405	0.1369568	0.12485828	3.9645250	21	11 12.5	19.4
68248 2001 DY_{71}	13.9	X	99.42693	319.43856	334.88206	8.18791	0.0737695	0.17487834	3.1669804	21	11 26.4	18.7
68249 2001 DY_{73}	15.9	X	120.64051	41.71716	209.47527	2.67037	0.1677090	0.26879893	2.3778495	21	11 17.2	19.6
68250 2001 DZ_{73}	14.7	X	55.73420	187.52041	165.51633	15.17062	0.1068378	0.22814992	2.6525027	21	—	—
68251 2001 DT_{75}	14.7	X	156.06273	185.23691	171.39424	11.32223	0.1075576	0.19314740	2.9639905	21	1 30.3	19.3
68252 2001 DP_{89}	14.4	X	166.33356	345.55960	164.66933	14.19803	0.1375882	0.21765418	2.7371045	21	8 19.4	18.8
68253 2001 DV_{97}	14.5	X	182.64763	204.66416	127.49295	11.39104	0.1118267	0.19284570	2.9670810	21	1 30.0	19.1
68254 2001 DH_{98}	14.8	X	232.38501	252.84067	354.91606	9.03937	0.0316909	0.18931320	3.0038768	21	—	—
68255 2001 DP_{99}	15.8	X	204.92459	332.82688	218.57207	6.64157	0.2057611	0.22444086	2.6816460	21	11 11.9	20.2
68256 2001 DE_{100}	15.8	X	170.28348	61.41905	205.88330	4.56963	0.2173546	0.27597785	2.3364324	21	—	—
68257 2001 DH_{100}	13.7	X	23.08359	41.45520	318.47789	20.74439	0.0677383	0.17501831	3.1652916	21	11 6.5	18.4
68258 2001 DD_{103}	13.9	X	139.83933	303.66300	14.19956	15.34328	0.1744335	0.23452577	2.6042080	21	—	—
68259 2001 DC_{104}	14.8	X	153.46602	317.28463	355.68576	1.75472	0.1091023	0.18757244	3.0224332	21	—	—
68260 2001 DV_{107}	14.1	X	90.32235	34.02119	282.11849	21.02112	0.0956006	0.17809128	3.1287746	21	12 17.9	18.9
68261 2001 EU	14.3	X	146.82291	130.99204	76.34395	5.71129	0.0347118	0.16922833	3.2370842	21	10 6.8	19.0
68262 2001 EW_{9}	14.3	X	193.18424	286.04414	146.98283	12.67769	0.1871955	0.20640655	2.8356572	21	6 11.2	19.3
68263 2001 EW_{12}	15.8	X	291.05648	240.13762	127.72941	3.61410	0.2154194	0.26693214	2.3889229	21	6 22.3	18.7
68264 2001 EQ_{13}	14.2	X	359.09058	273.10475	184.11492	10.42540	0.2388691	0.23956499	2.5675593	21	—	—
68265 2001 EK_{14}	14.5	X	92.52642	262.78315	123.44731	13.44055	0.1986738	0.23668009	2.5883812	21	—	—
68266 2001 ES_{14}	14.4	X	232.88138	327.44558	138.90856	16.98049	0.0534595	0.16890780	3.2411782	21	9 10.2	19.2
68267 2001 EA_{16}	16.8	X	245.63953	317.42435	8.00747	38.82693	0.4274655	0.53130569	1.5097548	21	3 4.5	20.1
68268 2001 EX_{18}	13.8	X	185.93763	312.95184	308.11777	10.18569	0.1206222	0.18391970	3.0623198	21	—	—
68269 2001 EY_{19}	14.8	X	133.55220	4.75939	351.79672	9.22672	0.0401099	0.18981411	2.9985898	21	—	—
68270 2001 EA_{21}	14.5	X	79.80514	187.97838	205.38670	8.24765	0.0587343	0.18741254	3.0241521	21	—	—
68271 2001 EB_{21}	14.3	X	279.60489	269.42370	195.01739	11.30971	0.0371932	0.17570651	3.1570211	21	11 5.7	18.7
68272 2001 EG_{24}	14.8	X	74.91845	171.38010	273.99862	1.36696	0.0771771	0.19362276	2.9591372	21	2 7.0	18.5
68273 2001 EQ_{26}	13.2	X	61.00081	1.25913	340.87477	23.66783	0.2383628	0.17594644	3.1541503	21	—	—
68274 2001 FJ_{2}	14.3	X	310.81745	0.84401	179.95181	12.02518	0.1625229	0.18994779	2.9971827	21	—	—
68275 2001 FE_{3}	16.2	X	107.13966	108.83735	141.95078	2.78749	0.1844339	0.26462690	2.4027766	21	11 5.5	19.9
68276 2001 FG_{3}	14.2	X	224.75271	145.22558	170.41014	10.53007	0.0911238	0.19270502	2.9685249	21	2 18.9	18.8
68277 2001 FQ_{3}	15.7	X	91.76530	216.88325	28.59796	6.96862	0.0882867	0.26128369	2.4232293	21	10 4.1	18.8
68278 2001 FC_{7}	18.4	X	140.68823	234.44504	99.11389	2.62048	0.1144736	0.57284940	1.4358500	21	—	—
68279 2001 FD_{8}	16.0	X	110.43691	129.04048	168.28050	2.71236	0.1679676	0.27056981	2.3674628	21	—	—
68280 2001 FR_{8}	13.2	X	313.89587	75.95489	16.96791	13.18474	0.1670191	0.22366688	2.6878287	21	12 6.9	16.2
68281 2001 FZ_{11}	15.8	X	69.75779	103.18578	87.84800	3.62254	0.1268890	0.25283563	2.4769117	21	6 23.6	18.8
68282 2001 FR_{14}	14.4	X	316.01969	269.01099	185.27137	8.98255	0.0470440	0.17737292	3.1372166	21	12 9.4	18.7
68283 2001 FE_{17}	13.9	X	209.63400	351.00907	180.19245	5.27861	0.1086096	0.17278920	3.1924565	21	10 26.2	18.7
68284 2001 FJ_{17}	14.0	X	46.01090	207.93875	189.57143	32.37642	0.1671458	0.22963061	2.6410879	21	—	—
68285 2001 FQ_{18}	13.9	X	69.12529	124.48518	201.67745	12.60831	0.1631663	0.17127511	3.2112433	21	12 12.9	18.8
68286 2001 FP_{22}	13.4	X	53.38839	195.19718	184.54270	13.50297	0.0545545	0.17584884	3.1553173	21	—	—
68287 2001 FL_{24}	13.1	X	163.03148	292.34540	290.84452	11.36580	0.1460246	0.12389227	3.9851063	21	10 31.7	19.6
68288 2001 FH_{26}	14.8	X	267.03193	309.24088	196.07651	7.75785	0.1535911	0.22534348	2.6744802	21	12 2.8	18.1
68289 2001 FM_{26}	14.0	X	322.87022	239.10748	198.79067	21.54713	0.0441368	0.22380952	2.6866866	21	12 7.7	17.8
68290 2001 FT_{33}	15.1	X	55.95119	278.36007	169.65151	18.31828	0.2492378	0.24303260	2.5430781	21	1 9.6	17.5
68291 2001 FM_{36}	14.4	X	289.21887	110.03454	343.71031	8.83174	0.0465482	0.17474884	3.1685447	21	10 29.7	18.9
68292 2001 FS_{37}	14.7	X	317.46351	315.50124	193.39509	8.39058	0.0540659	0.18605795	3.0388124	21	—	—
68293 2001 FF_{49}	14.1	X	325.20388	73.08527	351.01909	12.43079	0.1603784	0.22309665	2.6924068	21	11 16.4	17.1
68294 2001 FN_{49}	13.5	X	192.48309	329.96139	354.95454	14.08150	0.0602261	0.18825227	3.0151522	21	2 3.4	18.2
68295 2001 FY_{52}	14.0	X	37.93442	134.58671	188.92775	22.05074	0.0697622	0.16960031	3.2323493	21	10 21.7	18.4
68296 2001 FN_{75}	15.1	X	283.69891	241.05168	33.69496	11.45415	0.1071340	0.24247188	2.5469972	21	3 2.1	18.8
68297 2001 FH_{78}	13.8	X	73.43926	140.76109	191.10214	14.75518	0.0615764	0.17110377	3.2133867	21	12 12.0	18.7
68298 2001 FC_{80}	15.2	X	292.77059	7.93301	248.42550	7.74211	0.1470903	0.24042463	2.5614354	21	2 3.8	19.1
68299 2001 FH_{82}	13.8	X	340.58713	176.86452	193.63774	37.72807	0.2179178	0.21752493	2.7381886	21	10 4.5	16.0
68300 2001 FD_{95}	13.4	X	153.02085	86.38348	165.81328	22.90440	0.1283217	0.17375037	3.1806720	21	12 6.8	18.9
68301 2001 FZ_{95}	15.3	X	161.73359	215.83231	81.44975	8.25944	0.1240309	0.27783055	2.3260340	21	—	—
68302 2001 FH_{96}	14.6	X	332.99573	267.60053	159.12006	18.07638	0.0264628	0.17470324	3.1690961	21	11 30.7	19.3
68303 2001 FB_{97}	14.4	X	225.43601	265.59083	24.73081	25.82410	0.2846865	0.23410771	2.6073074	21	1 20.3	19.7
68304 2001 FO_{97}	13.6	X	107.94654	245.91548	90.47358	10.25602	0.1386488	0.17789831	3.1310368	21	—	—
68305 2001 FK_{103}	13.8	X	115.70901	335.84580	312.19468	10.14353	0.1726739	0.17627839	3.1501894	21	12 14.2	19.0
68306 2001 FU_{103}	14.3	X	321.25298	72.43708	268.79068	5.18293	0.0761299	0.21244691	2.7816497	21	7 23.1	17.8
68307 2001 FL_{104}	14.7	X	313.64340	333.93887	36.66243	7.38805	0.1641765	0.21486055	2.7607787	21	8 14.9	17.9
68308 2001 FF_{106}	14.7	X	52.96457	327.46467	20.16556	11.16910	0.2271050	0.22565681	2.6720039	21	—	—
68309 2001 FM_{107}	16.9	X	357.82686	218.94700	10.73209	5.34481	0.1019458	0.29731682	2.2232573	21	4 3.1	18.9
68310 2001 FH_{112}	14.9	X	272.97217	219.12069	8.61884	12.02717	0.0685321	0.23414471	2.6070327	21	—	—
68311 2001 FN_{112}	14.6	X	178.71484	116.34933	161.32252	10.07740	0.0645163	0.18287993	3.0739162	21	—	—
68312 2001 FV_{117}	14.3	X	78.64479	26.87766	247.99208	10.68383	0.0230050	0.17091227	3.2157866	21	10 1.0	19.1
68313 2001 FK_{118}	14.2	X	352.17657	157.55891	273.05355	9.65782	0.1006884	0.18212914	3.0823580	21	—	—
68314 2001 FD_{120}	14.6	X	217.85954	339.83732	139.91454	1.33402	0.0859169	0.16642858	3.2732872	21	9 3.7	19.3
68315 2001 FT_{144}	14.0	X	336.21800	307.44243	151.53572	27.82384	0.1539982	0.18137725	3.0908707	21	—	—
68316 2001 FG_{145}	14.0	X	18.59166	239.32942	217.73955	15.60255	0.1925642	0.18406281	3.0607323	21	—	—
68317 2001 FB_{151}	14.3	X	290.97577	119.39600	343.51027	12.22608	0.1177753	0.22360734	2.6883058	21	11 12.0	17.7
68318 2001 FX_{152}	15.9	X	108.27815	0.67320	303.21483	6.73801	0.0802882	0.27342472	2.3509543	21	—	—
68319 2001 FA_{156}	14.4	X	76.37290	95.07463	340.38533	11.11213	0.0596746	0.19220948	2.9736249	21	1 29.0	18.4
68320 2001 FY_{159}	14.6	X	343.04337	48.88571	9.31259	7.01244	0.0760882	0.22298344	2.6933180	21	12 11.3	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68321 2001 FF_{169}	14.4	X	274.90740	103.55845	105.71938	11.48873	0.0707773	0.18279035	3.0749204	21	—	—
68322 2001 FN_{175}	14.1	X	332.29651	287.01580	127.53460	11.61360	0.1826899	0.22279314	2.6948515	21	11 25.8	16.9
68323 2001 FZ_{180}	15.1	X	318.28630	180.02966	164.73475	16.41573	0.2115962	0.21235366	2.7824640	21	7 5.1	18.5
68324 2001 FX_{182}	15.0	X	93.47179	54.80845	340.85653	0.86887	0.0866751	0.18763144	3.0217995	21	1 4.6	19.1
68325 Begues	14.2	X	311.94956	28.33792	133.01075	16.89709	0.1708521	0.18513779	3.0488729	21	—	—
68326 2001 HD_{21}	16.6	X	237.32370	3.40194	214.17837	2.12614	0.1055682	0.27663001	2.3327589	21	—	—
68327 2001 HW_{35}	13.8	X	314.75304	178.96803	56.75492	10.06515	0.0527710	0.19014507	2.9951092	21	3 6.9	18.1
68328 2001 HS_{44}	14.2	X	304.22964	30.81355	28.28308	13.94997	0.1364720	0.21625435	2.7489034	21	10 8.9	17.3
68329 2001 HV_{48}	14.5	X	64.19808	13.72900	247.24315	14.85216	0.2164574	0.25744551	2.4472547	21	10 1.1	18.2
68330 2001 HW_{48}	13.6	X	326.38517	117.90094	333.92024	13.76230	0.1384511	0.22569871	2.6716732	21	—	—
68331 2001 HM_{58}	13.8	X	76.36954	100.54733	225.00983	21.55345	0.0276828	0.17521016	3.1629806	21	12 3.5	18.4
68332 2001 KO	14.8	X	132.34130	199.96067	60.42778	10.18922	0.0972048	0.21690834	2.7433753	21	11 29.4	19.0
68333 2001 KA_{7}	15.6	X	65.69818	86.95693	86.45462	2.29322	0.0041229	0.29314838	2.2442835	21	5 1.6	18.1
68334 2001 KG_{9}	15.4	X	238.13435	298.72473	277.54538	5.14580	0.1273576	0.27673818	2.3321510	21	—	—
68335 2001 KQ_{9}	15.8	X	305.41493	202.13788	133.98012	3.56645	0.2030209	0.29663171	2.2266792	21	5 29.8	18.0
68336 2001 KH_{18}	15.2	X	222.39653	213.46065	101.46990	6.63969	0.3467659	0.23368972	2.6104155	21	2 9.3	20.2
68337 2001 KU_{20}	15.6	X	234.47898	77.92206	255.36483	9.77912	0.1367946	0.28804574	2.2707104	21	3 4.7	19.3
68338 2001 KD_{23}	15.9	X	141.56881	243.54310	346.74187	1.08734	0.1369595	0.26319886	2.4114599	21	11 8.6	19.6
68339 2001 KR_{24}	14.8	X	121.81892	54.52414	270.27298	7.89744	0.2588203	0.21983619	2.7189627	21	—	—
68340 2001 KP_{26}	15.4	X	152.19248	91.25077	253.52777	1.08056	0.2150335	0.22666021	2.6641123	21	1 18.9	19.5
68341 2001 KL_{45}	14.4	X	304.03854	111.16886	108.58246	12.76154	0.1278193	0.18463727	3.0543805	21	1 18.7	18.6
68342 2001 KF_{46}	15.5	X	255.61869	112.27058	131.40756	6.95675	0.0741659	0.27950398	2.3167405	21	—	—
68343 2001 KB_{47}	14.9	X	344.33917	38.38740	233.20610	15.27079	0.2145964	0.24328165	2.5413422	21	5 5.5	17.3
68344 2001 KG_{51}	15.6	X	308.40518	330.01498	265.85419	6.39342	0.1354091	0.28710686	2.2756581	21	1 21.3	18.6
68345 2001 KP_{65}	14.5	X	66.59976	241.61061	98.74908	14.03055	0.0884438	0.21945836	2.7220826	21	12 26.7	18.3
68346 2001 KZ_{66}	16.8	X	214.77596	140.25716	219.37803	16.69468	0.4166327	0.53253939	1.5074221	21	2 28.9	19.5
68347 2001 KB_{67}	19.9	X	178.86049	243.76179	245.88933	17.12231	0.3802126	1.04429306	0.9621759	21	8 19.4	20.5
68348 2001 LO_{7}	14.2	X	39.02520	181.64308	236.22600	25.33164	0.8406339	0.31140381	2.1556923	21	—	—
68349 2001 LD_{17}	14.7	X	345.76929	301.74230	250.21470	12.80045	0.1163206	0.23079241	2.6322171	21	1 26.0	18.1
68350 2001 MK_{3}	15.9	X	300.32103	328.55959	128.85615	29.56873	0.2472927	0.45683108	1.6696763	21	—	—
68351 2001 MS_{4}	15.1	X	256.01463	43.89358	337.37008	9.70429	0.1162591	0.24218971	2.5489751	21	6 9.6	18.9
68352 2001 MH_{6}	14.3	X	150.31204	120.26090	239.21119	7.69514	0.2109084	0.17228859	3.1986376	21	2 7.6	19.6
68353 2001 MS_{10}	14.2	X	293.07929	6.55864	318.32550	7.86625	0.0089682	0.19223216	2.9733910	21	5 30.8	18.4
68354 2001 MN_{27}	14.3	X	170.02621	217.36691	152.89799	8.97418	0.0974046	0.17683165	3.1436152	21	3 5.3	19.2
68355 2001 NZ	14.7	X	86.41834	313.16051	99.52204	14.01992	0.1719845	0.22235037	2.6984279	21	1 19.9	17.8
68356 2001 NH_{12}	16.1	X	77.59838	290.77772	319.72692	5.75290	0.1611047	0.30191862	2.2006085	21	10 3.3	18.9
68357 2001 NY_{18}	15.1	X	71.80523	337.02069	259.61114	11.39414	0.0875211	0.24620046	2.5212165	21	8 18.1	18.6
68358 2001 NT_{19}	15.0	X	226.03717	138.65745	238.40797	10.28252	0.1333360	0.23614064	2.5923217	21	4 30.5	19.0
68359 2001 OZ_{13}	17.8	X	60.12616	29.15455	99.22833	9.85771	0.1745066	0.52732912	1.5173353	21	—	—
68360 2001 OK_{24}	14.9	X	59.39300	218.34756	175.74874	4.80983	0.1270913	0.21569409	2.7536615	21	—	—
68361 2001 OX_{32}	15.2	X	202.28460	308.31411	335.50781	13.78772	0.0764485	0.22374802	2.6871789	21	—	—
68362 2001 OP_{38}	14.8	X	215.04852	79.65089	2.57594	14.98096	0.0957200	0.24372213	2.5382793	21	7 21.5	18.8
68363 2001 OR_{49}	13.4	X	24.16679	209.75011	274.76707	8.51258	0.0725586	0.17358293	3.1827171	21	1 17.9	17.5
68364 2001 OA_{60}	15.6	X	271.40445	156.29628	231.20569	1.67345	0.1798188	0.24430432	2.5342451	21	6 28.9	19.0
68365 2001 OQ_{61}	16.3	X	214.34018	299.51484	99.25802	5.79347	0.1423126	0.28620096	2.2804575	21	5 16.2	19.6
68366 2001 OF_{67}	15.8	X	257.04625	230.73964	174.35740	4.62755	0.2044937	0.23872751	2.5735606	21	7 2.1	19.7
68367 2001 ON_{88}	14.6	X	152.46212	240.62641	178.03699	3.22505	0.1782205	0.18108789	3.0941624	21	4 19.5	19.5
68368 2001 ON_{102}	15.8	X	257.42385	324.62257	251.94576	5.12642	0.0688107	0.26925084	2.3751881	21	—	—
68369 2001 OT_{105}	14.3	X	205.31915	250.30884	159.14117	12.35136	0.1165785	0.18695355	3.0290998	21	5 27.3	19.3
68370 2001 OM_{107}	14.2	X	171.01355	50.05110	326.11867	15.67170	0.2311556	0.17580712	3.1558165	21	3 13.6	19.8
68371 2001 OO_{107}	15.8	X	311.97708	13.88222	357.96128	3.16116	0.2147963	0.24219336	2.5489495	21	8 4.8	18.1
68372 2001 PM_{9}	18.8	X	303.45238	322.21072	253.03284	8.10003	0.4155498	0.47876335	1.6182867	21	—	—
68373 2001 PP_{13}	15.9	X	295.19688	234.56997	142.22776	5.93971	0.1693348	0.29335274	2.2432411	21	7 20.5	18.1
68374 2001 PM_{14}	13.4	X	168.58945	205.02113	146.76789	10.01105	0.1882876	0.12379303	3.9872359	21	2 21.1	19.8
68375 2001 PZ_{22}	15.4	X	226.21342	71.36332	346.05392	9.62460	0.1577974	0.24007837	2.5638977	21	6 21.3	19.6
68376 2001 PC_{23}	15.2	X	159.36167	174.55492	123.61760	12.53217	0.0914566	0.21718892	2.7410120	21	—	—
68377 2001 PD_{27}	16.5	X	266.11946	174.64192	168.91461	4.62239	0.2002347	0.28537149	2.2848744	21	4 21.1	19.8
68378 2001 PK_{37}	15.0	X	218.87467	340.12837	41.54691	15.20107	0.1624143	0.23425363	2.6062245	21	4 29.5	19.1
68379 2001 PN_{42}	14.5	X	247.68118	0.38449	50.81476	11.06795	0.1113943	0.19186877	2.9771441	21	7 12.3	19.0
68380 2001 PZ_{61}	15.2	X	241.58911	280.59410	328.00212	2.78912	0.0494672	0.22045086	2.7139063	21	—	—
68381 2001 PA_{63}	14.1	X	219.98728	314.28142	140.01532	10.61491	0.1059953	0.19071627	2.9891260	21	8 4.3	18.5
68382 2001 QK_{10}	14.5	X	29.74480	58.67926	150.93850	3.26437	0.0422573	0.18616895	3.0376044	21	5 12.9	18.5
68383 2001 QW_{10}	16.4	X	248.91286	272.66809	151.46858	6.54798	0.0772735	0.29336417	2.2431828	21	8 6.0	19.0
68384 2001 QS_{12}	14.1	X	230.07746	251.69722	339.57606	11.88379	0.1255578	0.21700625	2.7425500	21	—	—
68385 2001 QM_{24}	14.9	X	12.64804	212.84330	143.45341	2.89897	0.0813863	0.20136640	2.8827792	21	11 2.8	18.4
68386 2001 QJ_{31}	15.6	X	241.75652	212.14620	151.77563	2.39843	0.1431403	0.23141462	2.6274967	21	5 1.3	19.6
68387 2001 QF_{32}	16.5	X	202.14502	175.24707	173.92651	23.90646	0.1038697	0.37481244	1.9051392	21	2 9.4	19.1
68388 2001 QX_{42}	15.6	X	194.16490	259.46516	116.09165	1.79685	0.1266134	0.23132070	2.6282079	21	3 30.7	19.6
68389 2001 QE_{44}	15.4	X	90.15489	235.01544	143.08172	3.03379	0.0843465	0.21749809	2.7384139	21	—	—
68390 2001 QZ_{46}	16.1	X	219.87694	74.49359	330.63691	3.58692	0.2345845	0.23639121	2.5904895	21	5 25.3	20.6
68391 2001 QO_{55}	15.0	X	152.80320	257.06032	111.28754	6.87923	0.0350230	0.22360823	2.6882988	21	1 30.3	18.6
68392 2001 QW_{57}	14.7	X	18.96317	262.38204	108.57521	3.17487	0.0643256	0.20592436	2.8400822	21	11 28.8	18.4
68393 2001 QT_{65}	15.6	X	83.73359	258.67618	174.19020	11.87481	0.1861628	0.21979263	2.7193220	21	2 11.7	18.9
68394 2001 QZ_{68}	15.3	X	66.73989	169.12373	254.14033	5.29406	0.0789924	0.26734806	2.3864446	21	—	—
68395 2001 QH_{74}	14.3	X	184.51248	177.30788	207.70105	3.53458	0.0962851	0.22461538	2.6802567	21	3 31.3	18.3
68396 2001 QZ_{75}	15.0	X	281.45133	47.55756	8.67192	8.99526	0.1921092	0.23996937	2.5646740	21	8 23.6	18.3
68397 2001 QP_{82}	13.9	X	188.05716	71.39721	329.29554	16.18740	0.1316313	0.17836887	3.1255277	21	4 20.0	19.2
68398 2001 QV_{85}	15.8	X	83.73454	57.73058	6.82310	3.90731	0.1883337	0.26632840	2.3925319	21	1 22.4	18.0
68399 2001 QS_{89}	15.0	X	144.45368	345.02678	59.18644	11.07571	0.2199777	0.22565926	2.6719846	21	3 30.2	19.4
68400 2001 QM_{91}	14.2	X	357.89868	112.43904	207.56545	9.61744	0.0943590	0.19038427	2.9926000	21	8 18.0	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68401 2001 QX_{92}	16.2	X	31.68174	101.18691	70.70638	8.32967	0.0397598	0.28001563	2.3139175	21	3 17.3	18.9
68402 2001 QM_{98}	13.4	X	188.08917	40.73087	294.88628	7.72072	0.1871093	0.12598766	3.9407969	21	2 15.9	19.8
68403 2001 QH_{105}	16.2	X	8.65941	180.58478	63.04198	6.50380	0.0773858	0.28636549	2.2795840	21	5 19.3	18.2
68404 2001 QX_{108}	14.5	X	159.98425	170.62751	204.81665	11.84324	0.3146153	0.22484361	2.6784427	21	3 7.1	19.3
68405 2001 QN_{125}	15.4	X	157.94887	226.74417	134.75036	10.22897	0.0959823	0.22258284	2.6965486	21	2 3.0	19.4
68406 2001 QU_{130}	15.8	X	77.08911	157.63800	203.07712	5.94965	0.1353324	0.26144013	2.4222625	21	—	—
68407 2001 QN_{131}	15.6	X	54.42110	125.89155	265.32194	4.64943	0.1256678	0.26131532	2.4230338	21	—	—
68408 2001 QH_{137}	15.1	X	343.41694	36.65839	276.14600	7.55519	0.1245943	0.23915343	2.5705041	21	7 17.2	17.6
68409 2001 QS_{148}	15.0	X	81.58481	314.66249	39.91060	9.07669	0.1809763	0.21023234	2.8011500	21	—	—
68410 Nichols	15.4	X	146.00451	128.89923	275.67549	4.85912	0.0771927	0.22473603	2.6792973	21	3 10.2	19.3
68411 2001 QE_{188}	14.9	X	126.77391	311.06542	242.30262	7.68354	0.1527332	0.24341502	2.5404138	21	9 3.9	18.9
68412 2001 QL_{188}	15.9	X	225.43497	261.65096	152.57645	5.10013	0.1791885	0.23916578	2.5704156	21	6 14.9	20.1
68413 2001 QB_{196}	14.9	X	243.74037	101.98031	338.45384	11.59180	0.0466906	0.19739570	2.9213097	21	8 22.9	19.1
68414 2001 QZ_{219}	14.3	X	210.79483	359.67218	291.63395	14.96049	0.2730018	0.26935743	2.3745614	21	1 1.1	18.5
68415 2001 QG_{220}	14.9	X	21.53531	19.32026	274.54522	14.13583	0.1121361	0.24113527	2.5564005	21	8 22.9	18.1
68416 2001 QQ_{220}	15.2	X	118.65803	114.49689	264.44341	7.92727	0.2096422	0.21962692	2.7206897	21	1 24.5	19.1
68417 2001 QD_{238}	15.6	X	78.69634	196.01177	180.33683	7.10854	0.0862935	0.26176175	2.4202780	21	—	—
68418 2001 QN_{244}	16.0	X	261.90478	195.90758	8.02847	8.40679	0.0734792	0.26346286	2.4098487	21	—	—
68419 2001 QE_{256}	14.9	X	45.80325	310.50726	136.80605	5.70773	0.1389108	0.21560919	2.7543843	21	—	—
68420 2001 QO_{258}	14.5	X	229.88743	53.38422	249.04524	6.03262	0.0986472	0.17472220	3.1688669	21	2 9.5	19.5
68421 2001 QY_{270}	15.8	X	16.31098	119.10347	335.48328	7.44691	0.0923154	0.26864602	2.3787517	21	—	—
68422 2001 QJ_{296}	14.4	X	342.33814	183.45406	196.93868	1.73954	0.1305476	0.19631527	2.9320182	21	10 17.7	17.6
68423 2001 QD_{315}	16.0	X	320.32855	305.49857	167.41716	1.77618	0.1995131	0.26115803	2.4240066	21	—	—
68424 2001 QO_{327}	15.9	X	177.61625	279.08199	170.42656	6.27800	0.0717781	0.28814202	2.2702045	21	6 13.5	19.1
68425 2001 QS_{329}	15.7	X	187.38066	119.95682	274.71616	7.23689	0.0904792	0.28231033	2.3013617	21	4 6.8	19.0
68426 2001 RE	14.6	X	319.74278	299.86384	158.37947	16.10577	0.2168296	0.20304587	2.8668608	21	12 21.8	17.7
68427 2001 RK_{6}	15.3	X	282.06953	112.85496	252.36553	1.04031	0.1036084	0.18827620	3.0148967	21	6 25.2	19.2
68428 2001 RA_{21}	14.8	X	32.85130	121.79949	332.89612	2.88410	0.0488377	0.16895135	3.2406212	21	—	—
68429 2001 RW_{24}	15.1	X	162.06468	52.75324	314.65509	1.19832	0.1469594	0.17451257	3.1714040	21	2 24.8	20.2
68430 2001 RB_{37}	16.4	X	186.54352	242.60699	184.28629	5.36499	0.1424519	0.28468783	2.2885309	21	5 25.1	19.9
68431 2001 RH_{48}	15.6	X	178.02039	112.00873	27.17098	6.53085	0.0960350	0.28948741	2.2631652	21	8 25.5	18.8
68432 2001 RX_{57}	14.5	X	74.35936	346.09386	134.20247	6.32639	0.1362860	0.17559249	3.1583875	21	4 5.1	18.7
68433 2001 RN_{69}	15.4	X	159.90305	105.32029	240.26945	3.24947	0.0975581	0.21832754	2.7314738	21	1 16.9	19.3
68434 2001 RZ_{76}	14.7	X	247.77022	218.79187	102.34465	5.41479	0.1495284	0.22494079	2.6776711	21	3 16.7	19.0
68435 2001 RF_{81}	15.8	X	75.47208	189.55491	327.25389	4.33738	0.0806547	0.27964989	2.3159345	21	5 1.5	18.4
68436 2001 RC_{85}	15.6	X	7.68659	243.67092	229.12505	6.81505	0.1128037	0.21578592	2.7528802	21	—	—
68437 2001 RQ_{87}	16.1	X	223.80854	47.92590	359.08112	3.99260	0.1434612	0.23470845	2.6028565	21	6 5.6	20.1
68438 2001 RJ_{99}	16.2	X	49.39989	85.32513	344.29102	1.94004	0.1579147	0.26550805	2.3974575	21	—	—
68439 2001 RB_{104}	14.3	X	276.03643	19.25236	95.18788	5.41271	0.0235992	0.20459906	2.8523334	21	11 19.7	18.2
68440 2001 RN_{107}	15.0	X	207.69317	122.69330	352.38020	1.31434	0.0398772	0.19494839	2.9457075	21	8 23.1	19.3
68441 2001 RJ_{114}	15.5	X	127.67687	245.40837	137.33604	9.06794	0.1141829	0.22010134	2.7167786	21	1 28.3	19.2
68442 2001 RO_{132}	15.2	X	170.11459	23.19856	135.41032	8.07922	0.1299932	0.24432494	2.5341025	21	9 7.1	19.1
68443 2001 RP_{133}	16.2	X	20.47322	300.35874	158.78571	7.73572	0.0358535	0.26519346	2.3993532	21	—	—
68444 2001 RH_{142}	11.5	X	27.37669	88.44992	123.39934	30.05580	0.0266349	0.08287911	5.2100194	21	5 27.1	18.6
68445 2001 RF_{147}	14.3	X	323.81657	3.97686	238.89112	13.88850	0.0751346	0.18029566	3.1032197	21	3 15.1	18.8
68446 2001 RN_{148}	15.7	X	100.64336	300.80702	121.11632	7.14921	0.1102325	0.27231399	2.3573428	21	2 1.6	18.3
68447 2001 RP_{148}	14.4	X	136.48161	291.49285	110.65327	11.01410	0.2331762	0.17523500	3.1626817	21	3 25.9	19.7
68448 Sidneywolff	15.4	X	279.93232	249.54876	89.45101	9.20830	0.2387860	0.28496652	2.2870386	21	4 27.9	18.7
68449 2001 SP_{20}	15.5	X	198.10484	236.34488	170.37340	4.38885	0.1614041	0.23042777	2.6349932	21	5 12.8	19.8
68450 2001 SN_{26}	16.1	X	60.22471	112.25382	173.37193	3.41347	0.0680373	0.24725135	2.5140675	21	10 12.1	19.4
68451 2001 SZ_{31}	14.5	X	51.68468	67.71090	92.82556	2.13342	0.1347568	0.17589392	3.1547782	21	4 20.9	18.3
68452 2001 SA_{36}	14.7	X	19.86388	202.34444	136.63392	2.96714	0.0673698	0.19796036	2.9157519	21	10 19.9	18.5
68453 2001 SK_{36}	15.1	X	270.96044	327.64946	47.80486	2.08164	0.1005596	0.18737087	3.0246004	21	6 24.7	19.5
68454 2001 SS_{46}	15.6	X	316.39997	268.15635	62.59026	3.29725	0.0603540	0.23843891	2.5756368	21	7 4.0	18.8
68455 2001 SH_{47}	16.4	X	161.50648	306.79536	131.82306	4.82071	0.0800908	0.28010365	2.3134327	21	5 11.7	19.6
68456 2001 SJ_{57}	14.6	X	266.62181	210.61347	166.44433	10.13456	0.0793010	0.18568704	3.0428578	21	6 24.4	19.1
68457 2001 SC_{63}	14.7	X	201.73228	336.96980	80.27763	2.72973	0.1496329	0.18134931	3.0911882	21	5 30.3	19.7
68458 2001 SQ_{69}	15.9	X	216.95623	153.17215	181.45497	7.01114	0.1303060	0.27250180	2.3562596	21	2 23.1	19.6
68459 2001 SY_{80}	15.7	X	56.06213	122.81983	307.08954	4.12475	0.1432954	0.21726870	2.7403409	21	—	—
68460 2001 SS_{104}	15.7	X	355.55749	263.17799	233.64257	5.82826	0.0567299	0.26547043	2.3976840	21	—	—
68461 2001 SO_{107}	13.9	X	351.72831	329.04889	357.78415	10.42539	0.1058341	0.18885573	3.0087257	21	8 23.8	17.6
68462 2001 SW_{108}	14.4	X	323.85802	317.09602	22.46755	14.81077	0.2094039	0.23744991	2.5827837	21	7 13.0	17.3
68463 2001 SQ_{120}	16.0	X	165.39312	98.96461	346.10868	14.72339	0.1315492	0.23223226	2.6213259	21	5 24.1	20.4
68464 2001 SW_{128}	15.6	X	91.13920	347.17377	241.05771	3.04788	0.0216365	0.24349352	2.5398678	21	8 26.8	18.9
68465 2001 SZ_{131}	16.0	X	292.32114	297.72216	205.05719	1.40910	0.1329365	0.25796746	2.4439525	21	—	—
68466 2001 SC_{150}	15.6	X	137.24899	20.96705	284.78724	2.95491	0.1657720	0.26170890	2.4206039	21	—	—
68467 2001 SW_{160}	15.0	X	142.27973	251.22411	211.52752	21.29553	0.0920064	0.22904314	2.6456021	21	5 24.3	19.0
68468 2001 SZ_{224}	16.5	X	62.27313	53.31773	61.53877	2.76777	0.1718439	0.26985397	2.3716477	21	2 21.6	18.5
68469 2001 SC_{253}	14.8	X	199.73575	235.64603	190.41596	10.15849	0.0519220	0.18205783	3.0831629	21	6 11.4	19.5
68470 2001 SP_{266}	15.6	X	67.96743	99.72378	343.79481	0.66257	0.0442222	0.21586616	2.7521980	21	1 18.4	19.0
68471 2001 ST_{276}	14.7	X	214.12335	66.16553	241.46112	7.31565	0.1360802	0.21900079	2.7258729	21	1 24.9	19.2
68472 2001 SL_{282}	14.3	X	202.91065	358.46493	294.38289	8.44638	0.2624420	0.21670659	2.7450777	21	1 3.5	19.2
68473 2001 SC_{289}	14.6	X	237.56938	268.34697	102.41961	6.73745	0.1907622	0.18198925	3.0839375	21	5 6.5	19.6
68474 2001 SL_{328}	16.3	X	31.87675	302.28699	159.32869	6.83821	0.1653495	0.26877775	2.3779744	21	—	—
68475 2001 SD_{349}	15.0	X	323.20563	235.53824	331.03920	7.00036	0.0209537	0.21675885	2.7446364	21	2 4.5	18.8
68476 2001 TJ_{9}	14.9	X	177.76794	203.60775	190.80143	13.50096	0.2436177	0.23018224	2.6368667	21	4 11.3	19.4
68477 2001 TD_{10}	15.9	X	141.14060	73.69652	1.54614	2.07684	0.0820916	0.22567375	2.6718702	21	4 15.3	19.8
68478 2001 TR_{26}	15.7	X	179.38220	202.37133	326.41312	3.87043	0.0904891	0.24340890	2.5404564	21	9 27.6	19.4
68479 2001 TX_{40}	14.6	X	26.27603	278.64478	41.83828	12.49456	0.0231597	0.23831693	2.5765157	21	10 8.1	18.0
68480 2001 TQ_{49}	15.1	X	330.61727	207.58649	72.29206	15.43085	0.0721953	0.22783034	2.6549826	21	5 16.2	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68481 2001 TQ_{95}	15.6	X	56.52032	316.23969	308.46821	3.69937	0.1451449	0.24264774	2.5457664	21	9 17.7	18.8
68482 2001 TA_{110}	15.6	X	214.35391	97.17775	270.00503	2.86993	0.1438740	0.27737650	2.3285717	21	4 2.1	19.2
68483 2001 TG_{129}	15.6	X	303.44156	349.47576	207.84013	1.62450	0.1578198	0.26407786	2.4061058	21	—	—
68484 2001 TB_{141}	16.0	X	177.42548	32.74310	33.30039	9.20021	0.1097402	0.28148358	2.3058657	21	5 11.2	19.3
68485 2001 TD_{144}	16.4	X	63.59513	178.33531	79.19326	4.41126	0.1664395	0.29420991	2.2388819	21	9 30.9	19.1
68486 2001 TM_{169}	15.5	X	257.87972	344.13605	350.88438	7.93367	0.1379314	0.27683741	2.3315936	21	4 4.5	19.0
68487 2001 TM_{175}	15.2	X	60.91216	316.89337	200.72881	12.25604	0.1152180	0.22831652	2.6512122	21	4 22.9	18.3
68488 2001 TK_{209}	15.1	X	277.85132	82.88879	288.92453	8.43636	0.0779931	0.18695221	3.0291142	21	7 2.4	19.3
68489 2001 TS_{212}	15.8	X	149.63348	86.49886	356.65018	3.92153	0.0621174	0.22681438	2.6629049	21	5 2.7	19.6
68490 2001 TH_{239}	15.7	X	355.75730	66.94325	70.84911	11.60950	0.1678611	0.26402429	2.4064313	21	—	—
68491 2001 UF_{4}	16.5	X	88.25300	83.96072	54.41900	3.96589	0.0265927	0.27492381	2.3424004	21	4 19.2	19.1
68492 2001 UH_{4}	15.4	X	50.21966	185.50650	187.01663	1.75315	0.1046320	0.20315325	2.8658505	21	—	—
68493 2001 US_{9}	15.1	X	117.88862	274.32641	124.02761	3.63037	0.0742250	0.21609004	2.7502967	21	1 31.4	18.8
68494 2001 UT_{9}	15.5	X	49.60715	36.70893	82.29260	3.63040	0.1348932	0.26519740	2.3993294	21	1 30.9	17.6
68495 2001 UF_{21}	14.6	X	296.31939	284.13947	255.50301	7.83858	0.0984207	0.21524034	2.7575301	21	—	—
68496 2001 UD_{33}	14.1	X	179.95946	341.17291	61.42421	10.94166	0.2074799	0.22612566	2.6683092	21	4 24.3	18.7
68497 2001 UZ_{33}	14.4	X	38.48117	301.87349	122.29702	9.38782	0.1503292	0.15878806	3.3774647	21	—	—
68498 2001 UV_{34}	14.5	X	337.97148	227.46947	99.93283	10.50068	0.0822679	0.18812385	3.0165242	21	7 31.5	18.3
68499 2001 UM_{36}	15.0	X	216.75815	333.29517	61.32638	15.42559	0.1316709	0.23081375	2.6320548	21	5 15.9	19.2
68500 2001 UP_{45}	15.0	X	50.90373	259.91756	74.61968	2.97704	0.0345274	0.19908636	2.9047474	21	11 19.4	19.0
68501 2001 UE_{53}	15.9	X	334.01498	283.70378	198.68424	13.05261	0.1854236	0.25433132	2.4671913	21	—	—
68502 2001 US_{66}	15.6	X	296.83507	235.61900	332.43455	6.33442	0.0514335	0.26496465	2.4007343	21	—	—
68503 2001 UC_{118}	15.0	X	234.21121	294.52967	220.63777	8.56291	0.0302716	0.19738354	2.9214296	21	11 15.0	19.0
68504 2001 UK_{119}	15.7	X	253.14145	99.79052	216.48037	2.24778	0.0643767	0.27377759	2.3489338	21	3 13.8	18.9
68505 2001 UM_{120}	16.3	X	74.82567	112.53609	124.48764	3.53585	0.1396670	0.28865267	2.2675263	21	9 10.7	19.1
68506 2001 UW_{121}	15.9	X	20.94463	358.82835	98.59935	3.70418	0.1562047	0.25850027	2.4405931	21	—	—
68507 2001 US_{122}	14.6	X	186.64269	240.06604	223.54554	7.14474	0.1146229	0.18109252	3.0941097	21	7 11.1	19.6
68508 2001 UZ_{134}	15.5	X	82.91362	351.91403	74.06615	3.87488	0.1895032	0.26128138	2.4232436	21	1 24.3	17.8
68509 2001 UA_{135}	15.6	X	42.63818	315.36449	325.00240	2.24986	0.1138334	0.23873039	2.5735400	21	9 14.6	18.5
68510 2001 UX_{154}	15.6	X	199.95733	321.24554	214.31132	9.06425	0.1008844	0.29326236	2.2437020	21	11 5.7	18.4
68511 2001 UH_{161}	16.3	X	304.16148	243.85616	206.94952	7.72013	0.0921824	0.24698664	2.5158635	21	11 30.7	19.2
68512 2001 UV_{161}	15.3	X	338.52928	206.21227	107.87451	2.22332	0.1970586	0.23583019	2.5945962	21	7 3.5	17.6
68513 2001 UL_{167}	14.6	X	325.00497	349.44885	284.79971	11.78993	0.1951682	0.27872569	2.3210512	21	3 24.1	17.6
68514 2001 UV_{177}	15.4	X	73.56854	38.92881	40.28674	2.97357	0.0285066	0.21405459	2.7677043	21	1 20.1	19.0
68515 2001 UZ_{183}	14.4	X	212.97297	244.40641	130.14552	11.18395	0.1153844	0.17703850	3.1411660	21	4 24.9	19.5
68516 2001 UD_{188}	15.5	X	303.37439	275.86717	140.09599	7.78579	0.0742886	0.19321531	2.9632959	21	10 7.6	19.4
68517 2001 UC_{214}	13.5	X	238.05722	214.97873	98.69954	20.09753	0.1559654	0.17545861	3.1599940	21	3 8.6	18.9
68518 2001 VM_{14}	15.3	X	305.23723	204.66201	314.07292	5.69116	0.0397366	0.25662598	2.4524621	21	—	—
68519 2001 VW_{15}	11.8	X	17.49616	120.79371	116.30906	22.72484	0.0146563	0.08107586	5.2869884	21	6 7.5	18.9
68520 2001 VT_{19}	15.1	X	78.77794	225.55105	43.45829	6.00361	0.1435595	0.24365000	2.5387802	21	10 23.8	18.5
68521 2001 VA_{25}	15.5	X	159.92738	271.92694	353.58784	1.42780	0.0122155	0.20180922	2.8785606	21	—	—
68522 2001 VO_{28}	15.4	X	247.40087	63.14020	54.98250	5.09017	0.1413616	0.24126406	2.5554907	21	10 7.2	18.8
68523 2001 VR_{28}	15.8	X	94.32880	308.31321	248.85415	6.58239	0.0821888	0.28156487	2.3054219	21	7 28.8	18.7
68524 2001 VZ_{31}	15.8	X	37.99802	158.86943	34.28422	2.81984	0.1533685	0.27164613	2.3612050	21	5 1.4	17.7
68525 2001 VE_{33}	15.6	X	214.54445	179.39600	305.37600	2.53046	0.0734170	0.23743751	2.5828737	21	9 11.5	19.3
68526 2001 VC_{44}	14.7	X	327.40257	261.64993	60.41681	8.40943	0.2016813	0.23378950	2.6096727	21	6 20.4	17.3
68527 2001 VO_{59}	15.5	X	216.14953	120.51952	28.03323	6.83455	0.0914831	0.29346434	2.2426723	21	10 20.5	18.4
68528 2001 VC_{60}	14.5	X	2.06377	281.68060	26.32948	10.24379	0.0856037	0.18797107	3.0181585	21	8 16.6	18.4
68529 2001 VP_{63}	15.6	X	264.44315	333.16916	347.89682	2.53347	0.0890717	0.22621723	2.6675891	21	4 5.7	19.5
68530 2001 VQ_{69}	15.1	X	327.85835	20.30531	313.05618	9.22361	0.2063263	0.28803157	2.2707849	21	7 10.9	16.7
68531 2001 VQ_{91}	15.4	X	65.96824	42.10764	111.84808	10.86221	0.1565723	0.22144110	2.7058095	21	5 6.9	18.8
68532 2001 VU_{92}	14.8	X	193.45576	291.62295	111.89289	15.04541	0.1132171	0.22615469	2.6680808	21	5 9.5	19.2
68533 2001 VT_{94}	14.9	X	219.74467	190.30334	130.28963	14.35282	0.1633075	0.21897764	2.7260649	21	2 17.4	19.3
68534 2001 VT_{95}	15.0	X	272.72919	142.16206	118.44915	14.09023	0.1541350	0.21842367	2.7306723	21	1 25.1	19.3
68535 2001 VP_{97}	15.3	X	167.60300	178.57274	188.20728	11.81661	0.1382836	0.26679728	2.3897279	21	2 14.3	19.0
68536 2001 VU_{115}	15.6	X	354.83370	48.78514	269.84930	5.81337	0.1483916	0.28785664	2.2717047	21	8 21.3	17.5
68537 2001 VC_{123}	15.6	X	45.99978	181.42306	294.58731	18.18392	0.0873531	0.36175576	1.9507087	21	—	—
68538 2001 VN_{125}	15.3	X	278.23184	351.38793	237.91315	4.16818	0.1065423	0.21381414	2.7697788	21	—	—
68539 2001 WL_{2}	16.0	X	270.29135	64.85477	115.44282	6.12574	0.0833673	0.29910758	2.2143747	21	—	—
68540 2001 WR_{9}	14.7	X	25.45914	205.53201	106.76714	9.87531	0.0799822	0.18958012	3.0010566	21	9 27.4	18.7
68541 2001 WE_{40}	15.8	X	1.13623	152.89906	220.18242	6.89279	0.1580300	0.29480307	2.2358777	21	12 7.7	17.8
68542 2001 WE_{99}	15.9	X	119.63535	316.30891	255.21173	1.57419	0.1424287	0.23827910	2.5767883	21	9 21.9	19.9
68543 2001 WQ_{101}	16.2	X	238.36845	177.74722	77.13980	1.54833	0.1515874	0.26181148	2.4199715	21	—	—
68544 2001 XO_{18}	14.4	X	106.43924	116.09014	73.09806	15.28325	0.1410394	0.17688324	3.1430039	21	8 12.8	19.4
68545 2001 XQ_{23}	14.4	X	214.31096	100.71752	77.59439	14.32598	0.1037708	0.24048710	2.5609918	21	11 19.6	18.1
68546 2001 XF_{26}	15.0	X	220.88827	249.16418	304.49459	23.57376	0.2090940	0.24077475	2.5589517	21	11 30.1	19.3
68547 2001 XW_{29}	15.2	X	105.88592	185.25492	274.48294	19.07015	0.1033495	0.36687741	1.9325114	21	3 3.0	17.6
68548 2001 XR_{31}	16.6	X	16.15348	24.69534	302.04993	22.71992	0.4367229	0.44208031	1.7066139	21	—	—
68549 2001 XD_{52}	15.6	X	208.16595	146.82010	96.20982	3.54595	0.0907436	0.30481391	2.1866513	21	—	—
68550 2001 XA_{54}	16.1	X	66.03324	22.22302	175.29308	2.15735	0.1491584	0.27585962	2.3371000	21	6 30.7	18.6
68551 2001 XH_{57}	14.3	X	287.88038	209.61390	82.62474	14.59576	0.1802195	0.22289966	2.6939929	21	3 24.9	18.5
68552 2001 XQ_{64}	14.9	X	336.71074	306.73174	282.41128	11.23906	0.2253588	0.26252112	2.4156085	21	2 7.8	17.7
68553 2001 XF_{68}	15.0	X	174.68286	71.80581	329.07679	18.20897	0.1091585	0.36741250	1.9306347	21	3 18.6	17.5
68554 2001 XY_{81}	15.8	X	51.71278	353.24485	208.61256	4.11922	0.0703861	0.27608638	2.3358201	21	5 31.8	18.3
68555 2001 XX_{84}	14.1	X	100.75068	285.28184	242.40207	15.64252	0.1139499	0.17289552	3.1911476	21	6 30.3	18.9
68556 2001 XW_{93}	15.3	X	86.00263	248.84470	241.05903	3.65501	0.1131639	0.17103601	3.2142354	21	4 26.8	19.6
68557 2001 XF_{109}	15.1	X	69.78281	172.56302	71.70807	6.98175	0.1821271	0.27524782	2.3405619	21	9 22.3	18.2
68558 2001 XX_{113}	14.6	X	83.70025	81.95184	117.93333	14.15083	0.1647383	0.21970156	2.7200734	21	7 31.7	18.3
68559 2001 XT_{119}	14.1	X	113.11961	107.95744	115.99577	13.39978	0.2253801	0.22360220	2.6883470	21	10 12.9	18.8
68560 2001 XB_{120}	13.7	X	106.78039	59.06135	125.49415	17.07959	0.0489901	0.17097394	3.2150132	21	7 22.2	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68561 2001 XM_{156}	15.8	X	52.92610	293.55985	206.59936	1.66074	0.1511242	0.21482029	2.7611236	21	3 21.0	18.7
68562 2001 XE_{195}	15.4	X	132.28624	214.10748	166.36138	2.33485	0.1816622	0.26076532	2.4264396	21	2 1.5	18.7
68563 2001 XO_{206}	16.1	X	289.25522	289.53037	179.15924	3.14598	0.1020232	0.29604390	2.2296257	21	12 12.6	18.0
68564 2001 XF_{213}	15.0	X	215.29660	355.72113	124.30597	14.74959	0.1428608	0.23352967	2.6116081	21	9 3.5	19.1
68565 2001 XV_{239}	14.8	X	328.19653	127.98534	95.58963	13.77323	0.1498947	0.21247422	2.7814113	21	2 18.4	18.5
68566 2001 XT_{243}	16.0	X	193.52848	290.53350	265.77943	5.69085	0.1318264	0.28872530	2.2671460	21	11 20.9	19.3
68567 2001 XB_{248}	16.0	X	326.96236	339.35146	273.05661	4.04621	0.1963177	0.26760027	2.3849449	21	3 2.9	18.8
68568 2001 XV_{259}	15.5	X	252.13811	270.37898	127.14271	5.51629	0.0394372	0.23409344	2.6074134	21	7 8.3	18.9
68569 2001 YE_{3}	14.9	X	350.78124	252.41780	280.64011	22.05569	0.2930361	0.31005538	2.1619378	21	—	—
68570 2001 YQ_{4}	16.4	X	334.73411	84.51489	126.28038	23.29647	0.0637055	0.36760316	1.9299670	21	1 16.0	18.1
68571 2001 YR_{10}	15.1	X	285.46040	253.20370	67.61229	10.62210	0.2435572	0.27503568	2.3417653	21	4 11.0	18.6
68572 2001 YQ_{19}	15.8	X	90.50700	312.17218	284.28130	5.73311	0.1745795	0.27962314	2.3160823	21	9 27.9	19.2
68573 2001 YX_{24}	15.8	X	187.78367	149.68028	43.34827	1.30925	0.1212735	0.24334977	2.5408679	21	11 5.9	19.5
68574 2001 YG_{27}	15.7	X	86.53230	347.59206	271.40922	3.76969	0.1033602	0.23965189	2.5669386	21	10 11.7	19.4
68575 2001 YO_{43}	15.2	X	221.59063	62.88841	285.46616	5.33264	0.1443865	0.27139463	2.3626636	21	3 15.3	19.0
68576 2001 YC_{53}	15.8	X	94.30637	164.11675	74.02839	7.42933	0.1422218	0.28506476	2.2865131	21	10 8.6	19.0
68577 2001 YM_{59}	15.4	X	232.50329	112.69070	68.04185	5.90153	0.1513825	0.24499197	2.5295008	21	12 5.9	18.7
68578 2001 YP_{75}	15.4	X	242.17624	161.81116	91.34459	13.32709	0.1549769	0.25654715	2.4529644	21	—	—
68579 2001 YB_{83}	14.1	X	102.30342	92.11187	96.54813	19.32312	0.2116726	0.17294517	3.1905368	21	8 14.1	19.3
68580 2001 YG_{91}	15.1	X	264.21597	59.69883	104.08670	11.47223	0.0502850	0.24577844	2.5241017	21	—	—
68581 2001 YG_{118}	15.4	X	351.60348	215.46163	82.79422	2.61864	0.0334989	0.22621157	2.6676336	21	7 14.2	18.8
68582 2001 YS_{118}	14.8	X	0.63160	117.07005	113.49105	9.92642	0.1075105	0.21611215	2.7501091	21	4 26.6	18.1
68583 2001 YD_{150}	15.3	X	106.36297	342.19298	198.20798	11.48328	0.1293455	0.22950148	2.6420786	21	7 25.1	19.3
68584 2002 AT_{3}	15.1	X	273.18699	292.40413	130.25493	15.53264	0.0673214	0.23240929	2.6199946	21	9 9.1	18.6
68585 2002 AY_{6}	15.1	X	320.80995	326.56009	264.33426	13.52870	0.2179399	0.25919225	2.4362473	21	1 21.5	18.5
68586 2002 AC_{8}	16.3	X	324.41620	43.18934	189.89001	4.89353	0.0740073	0.31419899	2.1428882	21	2 11.7	18.7
68587 2002 AD_{10}	15.1	X	192.62486	82.49614	114.56986	5.09483	0.1249530	0.23575588	2.5951414	21	11 16.1	19.0
68588 2002 AF_{10}	15.4	X	13.61285	155.61855	57.86390	3.70747	0.1414448	0.26338201	2.4103419	21	4 13.5	17.5
68589 2002 AG_{10}	15.7	X	93.66129	150.03970	45.93071	3.39160	0.0986371	0.27089589	2.3655626	21	7 31.9	18.7
68590 2002 AZ_{17}	15.8	X	166.12021	281.12376	149.76042	23.95777	0.1168490	0.37182762	1.9153212	21	5 8.8	18.8
68591 2002 AO_{24}	15.1	X	65.44248	8.58379	262.84474	12.31252	0.1315434	0.23258477	2.6186766	21	10 1.0	19.0
68592 2002 AS_{27}	15.3	X	124.92719	37.13732	84.18411	14.86916	0.0442425	0.22035210	2.7147172	21	5 24.6	19.2
68593 2002 AT_{28}	16.2	X	151.36882	256.92961	116.80347	24.04723	0.1169080	0.36112511	1.9529791	21	1 17.8	17.8
68594 2002 AJ_{37}	14.5	X	307.58770	191.32116	115.99270	14.66840	0.1714150	0.22503527	2.6769216	21	5 8.0	18.2
68595 2002 AN_{37}	15.3	X	150.31536	42.74651	260.62111	6.05217	0.1398657	0.25546714	2.4598730	21	—	—
68596 2002 AW_{38}	15.4	X	241.16175	120.72467	163.61886	4.75310	0.0796598	0.20889483	2.8130940	21	1 27.9	19.6
68597 2002 AX_{42}	15.8	X	131.96952	112.13646	136.91464	5.87236	0.1362241	0.23929039	2.5695232	21	11 21.5	19.9
68598 2002 AY_{50}	15.8	X	37.50232	80.70384	126.10547	2.93827	0.1517630	0.26805294	2.3822591	21	5 24.1	17.9
68599 2002 AU_{62}	15.4	X	51.33623	47.95920	178.91237	2.29759	0.1585033	0.27047085	2.3680402	21	7 21.9	17.9
68600 2002 AS_{64}	15.8	X	117.26799	60.04666	158.70846	6.29963	0.1734607	0.27896646	2.3197155	21	10 6.9	19.3
68601 2002 AD_{66}	15.5	X	23.53637	85.55596	177.50904	4.39954	0.2161264	0.22206345	2.7007517	21	7 30.1	18.1
68602 2002 AB_{82}	14.9	X	174.47874	27.32768	119.77631	14.48884	0.1419363	0.23141640	2.6274833	21	8 27.9	19.1
68603 2002 AR_{86}	14.8	X	88.21188	350.87424	260.78482	8.08471	0.2058473	0.23089026	2.6314733	21	10 13.7	18.9
68604 2002 AJ_{100}	15.8	X	103.75707	160.64745	93.71598	6.28447	0.1327747	0.28490313	2.2873778	21	11 6.6	19.1
68605 2002 AQ_{112}	14.1	X	107.39922	120.65604	119.78203	16.12961	0.2232670	0.18004472	3.1061025	21	10 24.5	19.5
68606 2002 AT_{112}	15.1	X	99.04286	120.20121	116.73426	12.93637	0.2269992	0.22801607	2.6535407	21	10 16.7	19.6
68607 2002 AP_{116}	15.7	X	99.32520	242.90622	315.37530	2.03895	0.1507735	0.27453900	2.3445888	21	8 17.3	18.8
68608 2002 AM_{117}	14.4	X	43.63402	311.07474	314.17190	23.03589	0.2435046	0.27420408	2.3464976	21	9 8.5	17.4
68609 2002 AT_{118}	15.7	X	103.81075	164.25270	115.81434	8.18478	0.0749813	0.28737515	2.2742415	21	12 5.4	18.8
68610 2002 AD_{122}	15.1	X	39.70664	161.26746	120.38401	14.69667	0.2380142	0.22632983	2.6667042	21	10 8.4	18.6
68611 2002 AG_{122}	15.2	X	188.57989	103.78692	105.07017	5.60080	0.1280438	0.23807917	2.5782307	21	11 26.1	19.1
68612 2002 AM_{125}	15.5	X	348.68919	143.84410	64.77506	3.17202	0.1536812	0.25794444	2.4440979	21	2 16.9	18.0
68613 2002 AH_{131}	15.6	X	250.15415	179.47549	154.77725	24.19115	0.0549456	0.36715858	1.9315247	21	3 28.7	18.0
68614 2002 AL_{136}	16.1	X	300.55579	147.72078	208.59928	2.89523	0.0715557	0.22982431	2.6396038	21	7 13.6	19.5
68615 2002 AC_{148}	14.4	X	19.39668	312.28051	336.15057	14.05410	0.0957280	0.17960484	3.1111720	21	8 15.4	18.2
68616 2002 AO_{152}	15.8	X	347.27551	103.85652	127.25846	3.12037	0.1416367	0.26256782	2.4153221	21	3 19.8	18.1
68617 2002 AL_{159}	16.0	X	304.94318	30.05645	219.58519	0.62541	0.1466020	0.26009753	2.4305911	21	2 8.8	19.2
68618 2002 AK_{164}	16.6	X	256.31543	16.54875	233.47032	1.89770	0.1527283	0.30295708	2.1955769	21	—	—
68619 2002 AS_{166}	16.5	X	10.81829	277.00468	276.78729	3.37863	0.0766569	0.31218539	2.1520928	21	2 27.6	18.4
68620 2002 AL_{178}	15.6	X	147.53362	148.66553	109.47552	5.45628	0.1902988	0.23751711	2.5822966	21	12 14.8	19.8
68621 2002 AK_{189}	15.2	X	206.83534	344.70852	218.10341	11.02308	0.1827358	0.23963774	2.5670396	21	12 1.6	19.3
68622 2002 BQ	15.6	X	124.33249	20.01086	150.46454	5.89922	0.0683755	0.27375373	2.3490703	21	7 29.9	18.7
68623 2002 BL_{8}	14.1	X	284.42704	328.94394	117.73613	14.50957	0.1136522	0.23600177	2.5933385	21	10 25.9	17.5
68624 2002 BS_{8}	15.9	X	95.56183	231.51579	341.92110	4.69144	0.1452869	0.27558093	2.3386754	21	9 2.3	19.1
68625 2002 BW_{11}	16.3	X	55.97928	94.43009	135.16703	1.21039	0.1761573	0.27238812	2.3569151	21	8 6.8	18.7
68626 2002 BK_{16}	15.4	X	133.85657	99.16730	163.14560	7.79382	0.1723035	0.23565053	2.5959148	21	12 8.7	19.8
68627 2002 BF_{17}	15.6	X	37.45649	309.05881	313.78172	7.05186	0.1168231	0.27352975	2.3503525	21	8 15.0	17.8
68628 2002 BU_{17}	16.0	X	50.87475	294.59523	291.67242	1.55069	0.1536687	0.27236331	2.3570582	21	7 19.9	18.3
68629 2002 BZ_{17}	15.6	X	219.41148	101.82508	126.23982	6.59780	0.1944977	0.24432092	2.5341303	21	—	—
68630 2002 BU_{25}	14.7	X	232.27072	252.72618	312.54277	13.19342	0.1569281	0.24108183	2.5567783	21	—	—
68631 2002 BW_{28}	14.4	X	244.27241	311.47012	113.93924	17.32028	0.0745386	0.17363182	3.1821197	21	7 29.9	19.0
68632 2002 CN_{7}	16.4	X	229.58588	97.71027	332.89901	22.64233	0.0916975	0.38012122	1.8873595	21	7 29.2	18.7
68633 2002 CY_{13}	16.0	X	54.58992	230.03869	4.80175	2.64651	0.1236535	0.27097200	2.3651196	21	8 4.1	18.5
68634 2002 CY_{14}	16.1	X	307.93169	263.04664	334.23428	1.52328	0.1662364	0.25790265	2.4443620	21	1 25.6	19.5
68635 2002 CT_{15}	15.4	X	197.88110	114.38392	105.38656	5.51538	0.2006520	0.23764713	2.5813546	21	12 11.6	19.6
68636 2002 CR_{17}	15.1	X	303.76519	292.48846	318.80564	8.85086	0.1304411	0.21318816	2.7751981	21	2 19.0	18.9
68637 2002 CU_{26}	15.7	X	265.88436	208.90884	104.96651	12.42511	0.0651327	0.26747966	2.3856618	21	4 3.8	19.1
68638 2002 CO_{30}	15.4	X	6.37787	160.90670	108.80149	11.57387	0.0454284	0.22245210	2.6976051	21	6 26.5	18.7
68639 2002 CV_{31}	15.8	X	156.57819	199.31634	77.24937	6.39462	0.1766421	0.29372776	2.2413313	21	—	—
68640 2002 CX_{38}	15.4	X	95.36195	114.69085	156.88033	28.14850	0.1744779	0.23085536	2.6317385	21	11 20.2	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68641 2002 CR_{43}	15.5	X	53.12969	287.70462	339.22521	9.61134	0.2108892	0.27749006	2.3279363	21	9 29.1	18.4
68642 2002 CH_{45}	15.8	X	355.71092	171.63107	149.17818	7.27911	0.2387748	0.27767226	2.3269178	21	9 5.9	16.8
68643 2002 CZ_{49}	15.4	X	15.98042	26.19958	236.23445	5.66325	0.2260130	0.27031530	2.3689486	21	7 13.2	17.0
68644 2002 CX_{50}	15.9	X	294.21367	107.55741	157.10268	0.48970	0.1713349	0.25919988	2.4361995	21	2 12.8	19.4
68645 2002 CQ_{52}	14.6	X	107.15576	13.04477	163.88327	27.01228	0.1628896	0.26857324	2.3791814	21	7 28.1	18.4
68646 2002 CN_{53}	15.4	X	7.15043	51.32711	180.56164	2.67835	0.1352297	0.26467727	2.4024717	21	4 28.7	17.4
68647 2002 CG_{54}	16.0	X	257.53042	317.85103	312.77627	1.48714	0.1070713	0.25524428	2.4613046	21	1 19.6	19.5
68648 2002 CT_{55}	15.1	X	313.23838	30.50557	261.87409	2.38094	0.0706298	0.26570695	2.3962609	21	4 30.6	17.9
68649 2002 CT_{57}	16.1	X	29.81163	275.51017	308.14985	2.35944	0.1471526	0.26586694	2.3952995	21	6 2.5	18.2
68650 2002 CP_{59}	15.9	X	188.59257	109.35494	158.92891	10.99196	0.2395375	0.24132218	2.5550803	21	—	—
68651 2002 CS_{60}	15.5	X	310.69457	214.93106	46.01471	7.98592	0.0871422	0.21313572	2.7756533	21	3 23.3	19.2
68652 2002 CU_{74}	15.9	X	321.79194	141.77629	137.28148	5.41893	0.2107025	0.26550098	2.3975001	21	4 4.5	18.6
68653 2002 CL_{78}	16.1	X	23.14364	255.28054	20.13130	2.29363	0.1888943	0.27330801	2.3516236	21	8 20.5	18.0
68654 2002 CR_{78}	15.8	X	314.95393	128.97158	132.89882	9.15309	0.1555527	0.26193221	2.4192278	21	3 11.3	18.8
68655 2002 CS_{78}	16.3	X	46.51619	329.42954	331.46507	5.83424	0.2129576	0.28106325	2.3081641	21	11 7.8	19.3
68656 2002 CU_{78}	15.6	X	275.92828	129.20653	132.91767	2.75759	0.1379705	0.25653246	2.4530581	21	1 25.1	19.3
68657 2002 CW_{87}	16.0	X	22.96193	321.93224	337.26178	1.82242	0.2120354	0.27782897	2.3260427	21	9 30.5	18.1
68658 2002 CN_{89}	16.3	X	341.29474	164.52271	97.48175	3.28366	0.1817685	0.26503460	2.4003118	21	4 18.2	18.4
68659 2002 CH_{91}	16.0	X	332.18662	263.56861	25.99633	2.72255	0.1722006	0.26786623	2.3833660	21	5 12.3	18.3
68660 2002 CZ_{91}	16.2	X	113.10282	313.69624	335.90068	6.80214	0.1223333	0.28807530	2.2705551	21	12 29.5	19.6
68661 2002 CR_{93}	16.4	X	72.52083	157.38507	88.88671	2.58201	0.0824212	0.27665258	2.3326320	21	9 10.8	19.2
68662 2002 CP_{94}	15.3	X	320.66416	235.13313	86.35306	3.14098	0.0918007	0.22099647	2.7094376	21	6 23.5	18.6
68663 2002 CM_{99}	15.7	X	34.83323	151.23083	73.70754	2.39428	0.1358406	0.26690341	2.3890943	21	6 14.2	18.0
68664 2002 CN_{100}	15.8	X	130.04367	160.08915	136.05198	2.55891	0.1261141	0.23961145	2.5672274	21	—	—
68665 2002 CM_{101}	15.5	X	280.64924	215.62219	80.87172	3.43599	0.1281185	0.26088152	2.4257191	21	3 17.6	18.8
68666 2002 CN_{104}	14.8	X	115.39298	66.93630	149.57087	13.34328	0.0810440	0.27711666	2.3300271	21	9 26.1	18.0
68667 2002 CJ_{107}	15.4	X	312.19855	194.17386	83.64355	3.19578	0.1925828	0.26020605	2.4299152	21	3 22.8	18.4
68668 2002 CA_{109}	16.0	X	188.48970	45.90704	131.97462	4.31259	0.1226719	0.28167101	2.3048427	21	10 24.9	19.3
68669 2002 CJ_{109}	16.2	X	34.49989	169.86269	84.62075	3.36238	0.0918219	0.27174770	2.3606166	21	7 25.4	18.5
68670 2002 CV_{110}	15.5	X	4.15128	111.46654	152.36168	11.93466	0.1198659	0.21609732	2.7502350	21	6 15.9	18.8
68671 2002 CC_{112}	14.3	X	198.50397	246.91875	162.40581	9.30056	0.1720430	0.21548731	2.7554228	21	5 18.1	19.0
68672 2002 CS_{114}	14.1	X	56.45911	85.81036	137.89747	18.54064	0.0702760	0.16776523	3.2558776	21	7 10.6	18.7
68673 2002 CD_{115}	16.1	X	338.42601	19.47354	267.70564	2.03168	0.1741835	0.26933530	2.3746915	21	5 21.1	18.1
68674 2002 CV_{117}	15.9	X	77.71547	31.41341	266.25609	0.65268	0.1469551	0.28280113	2.2986982	21	12 3.6	18.9
68675 2002 CV_{123}	16.4	X	127.68915	11.14947	256.14152	2.78560	0.1198106	0.28807666	2.2705479	21	12 15.2	19.6
68676 2002 CZ_{125}	15.9	X	321.77289	279.94337	317.90189	1.91562	0.1333649	0.25949944	2.4343243	21	2 17.3	18.7
68677 2002 CW_{133}	15.0	X	262.87511	142.79797	167.27086	10.01946	0.2033625	0.25811484	2.4430221	21	3 6.9	19.0
68678 2002 CL_{134}	16.1	X	296.31331	305.05985	338.16515	3.90849	0.0276227	0.26180123	2.4200347	21	3 31.1	19.1
68679 2002 CP_{134}	14.2	X	303.26762	314.98538	354.76919	7.78098	0.3031223	0.21076348	2.7964420	21	4 7.9	18.1
68680 2002 CV_{134}	14.1	X	147.71955	52.02544	187.06409	23.45428	0.1530237	0.18013226	3.1050961	21	11 17.5	19.5
68681 2002 CE_{138}	16.1	X	63.25380	84.25195	174.36636	6.95534	0.0877130	0.27880367	2.3206184	21	9 14.7	18.7
68682 2002 CR_{140}	15.5	X	56.69528	83.05027	147.23648	15.24663	0.0851187	0.22410021	2.6843628	21	7 21.9	19.0
68683 2002 CX_{141}	15.6	X	205.19338	41.76051	203.25902	6.53199	0.2230570	0.24215658	2.5492076	21	—	—
68684 2002 CC_{142}	15.3	X	11.76537	358.47755	315.83557	23.14751	0.1572924	0.27750860	2.3278326	21	9 9.6	17.9
68685 2002 CK_{142}	15.6	X	125.83988	321.56699	211.80161	4.88416	0.1750026	0.27173572	2.3606860	21	8 12.9	19.3
68686 2002 CL_{145}	16.0	X	209.68739	290.89065	320.40255	4.64889	0.1438513	0.24350499	2.5397880	21	—	—
68687 2002 CV_{145}	15.8	X	100.14017	60.62067	194.71138	4.59807	0.1348084	0.22950793	2.6420290	21	10 26.8	19.7
68688 2002 CX_{145}	16.2	X	344.06339	109.24368	157.57107	2.50460	0.1708693	0.26530266	2.3986947	21	5 2.4	18.3
68689 2002 CZ_{150}	16.1	X	105.56580	172.66296	80.44552	7.75250	0.0703801	0.28322663	2.2963953	21	11 2.1	19.2
68690 2002 CD_{164}	15.2	X	278.78946	132.28035	102.01811	16.14792	0.1044286	0.20512528	2.8474532	21	1 6.8	19.2
68691 2002 CO_{165}	15.2	X	63.53179	216.52130	81.63380	5.14332	0.1787512	0.23235838	2.6203773	21	11 15.6	18.8
68692 2002 CV_{167}	15.1	X	83.77557	114.77910	127.02859	13.00743	0.1207629	0.22572889	2.6714350	21	9 23.5	19.1
68693 2002 CX_{168}	15.3	X	252.26196	174.13114	45.07698	5.27542	0.1681289	0.24582577	2.5237778	21	—	—
68694 2002 CG_{169}	15.0	X	128.34204	162.55050	106.29953	5.68416	0.1133206	0.23578512	2.5949268	21	12 9.8	19.0
68695 2002 CB_{171}	15.3	X	191.68190	183.50104	76.43704	5.53979	0.1457124	0.24189230	2.5510640	21	—	—
68696 2002 CX_{173}	13.8	X	38.83720	129.28212	146.74775	20.45528	0.1702579	0.17082367	3.2168984	21	9 6.8	17.8
68697 2002 CR_{176}	16.1	X	20.44867	191.13177	80.99207	1.36503	0.1888464	0.27503391	2.3417753	21	8 8.4	17.8
68698 2002 CG_{183}	14.8	X	59.49856	251.71708	57.86724	0.49866	0.1593190	0.18526357	3.0474929	21	11 14.3	19.0
68699 2002 CY_{192}	15.7	X	192.16036	205.42565	117.46574	8.43163	0.1446092	0.25552030	2.4595318	21	1 20.0	19.4
68700 2002 CN_{198}	16.0	X	39.28913	178.73434	124.59733	2.47411	0.1282057	0.23035429	2.6355535	21	10 14.3	19.1
68701 2002 CJ_{200}	16.4	X	334.99418	171.81897	112.44507	3.41894	0.1820191	0.26817012	2.3815651	21	5 9.8	18.5
68702 2002 CU_{215}	16.2	X	338.33103	185.53321	123.87966	3.56794	0.1716941	0.27128897	2.3632770	21	6 27.7	18.0
68703 2002 CO_{219}	16.1	X	4.02904	92.26931	146.18734	6.59642	0.0840730	0.26426146	2.4049912	21	5 7.3	18.7
68704 2002 CY_{219}	15.5	X	293.53802	157.04170	150.23826	3.57951	0.1220152	0.26329229	2.4108894	21	4 17.4	18.5
68705 2002 CM_{221}	15.6	X	327.67586	290.68334	19.62110	6.91121	0.1242524	0.26808042	2.3820963	21	6 12.4	18.1
68706 2002 CX_{234}	14.4	X	9.41725	98.62820	198.88978	17.37042	0.2667238	0.16261926	3.3242070	21	8 15.3	18.0
68707 2002 CX_{235}	14.5	X	82.93682	345.54404	277.56911	22.97563	0.1620607	0.27996451	2.3141992	21	10 17.6	18.4
68708 2002 CC_{242}	15.8	X	332.72593	111.78353	211.08595	2.38157	0.1767367	0.27183581	2.3601065	21	7 6.7	17.6
68709 2002 CE_{244}	15.8	X	1.63180	223.35905	335.20912	3.76340	0.1624927	0.25760530	2.4462426	21	2 22.9	18.2
68710 2002 CN_{244}	15.9	X	168.67537	318.85779	174.69321	2.04761	0.1032061	0.27379441	2.3488376	21	8 2.7	19.4
68711 2002 CV_{244}	15.3	X	159.46824	41.67247	175.13624	22.16139	0.0782156	0.23117842	2.6292861	21	11 9.9	19.5
68712 2002 CO_{249}	15.8	X	36.12922	74.31163	209.14761	4.38184	0.1553141	0.27469920	2.3436771	21	9 18.9	18.3
68713 2002 CX_{253}	15.0	X	37.31379	185.56433	123.42525	12.99851	0.1460197	0.23116245	2.6294073	21	10 26.9	18.5
68714 2002 CS_{259}	15.8	X	12.68347	192.92681	112.23826	12.08541	0.1947179	0.27722980	2.3293930	21	9 23.1	18.1
68715 2002 CM_{272}	16.1	X	4.45112	194.75244	94.52865	8.67086	0.0920943	0.27240504	2.3568175	21	7 24.8	18.5
68716 2002 CX_{280}	16.4	X	57.00886	111.60389	156.66912	2.41226	0.1979441	0.27862618	2.3216038	21	10 8.4	19.2
68717 2002 CO_{286}	16.3	X	265.48233	303.61286	343.21204	5.10530	0.1761711	0.25709457	2.4494812	21	2 11.9	20.1
68718 Safi	15.7	X	201.58121	105.88284	150.78746	3.95829	0.1798830	0.24349595	2.5398509	21	—	—
68719 Jangyeongsil	15.9	X	236.41069	125.04074	171.68817	4.88005	0.1010990	0.25413624	2.4684537	21	1 29.6	19.6
68720 2002 DB_{3}	15.2	X	124.89827	303.62971	133.05595	8.62846	0.2097469	0.21207832	2.7848718	21	4 18.9	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68721 2002 DC_6	14.8	X	89.80501	319.44313	293.54177	11.94448	0.1133237	0.22687134	2.6624592	21	10 2.6	19.0
68722 2002 DF_6	15.0	X	265.79853	208.35431	4.24739	2.68104	0.0930739	0.19103445	2.9858060	21	—	—
68723 2002 DH_{10}	15.3	X	302.68631	130.07656	168.57035	10.28391	0.0958406	0.21485196	2.7608522	21	4 28.6	19.0
68724 2002 DH_{12}	16.0	X	351.20247	106.68609	171.22942	22.45806	0.0551297	0.37373782	1.9087894	21	6 10.4	18.3
68725 2002 ED_3	12.3	X	235.64540	131.03389	25.81160	13.06294	0.1059834	0.08317137	5.1978069	21	10 24.3	19.3
68726 2002 EZ_5	14.3	X	191.59901	81.23728	141.21766	5.51747	0.1783599	0.18506851	3.0496338	21	12 4.2	19.3
68727 2002 EH_6	15.8	X	335.10818	128.43941	149.15483	2.78990	0.1731937	0.26436603	2.4043570	21	5 1.3	18.1
68728 2002 EP_6	16.7	X	100.81545	200.27319	347.34966	0.21271	0.1408434	0.27018308	2.3697213	21	8 3.1	20.0
68729 2002 EG_{12}	15.6	X	113.00121	192.55220	132.36162	4.81112	0.2248053	0.29069910	2.2568720	21	—	—
68730 Straizys	16.2	X	102.71842	89.89342	92.95202	1.23873	0.2000076	0.21845546	2.7304074	21	8 4.5	20.2
68731 2002 ES_{16}	14.6	X	121.14270	23.55272	111.01749	24.65735	0.1586987	0.27460065	2.3442379	21	6 19.8	18.1
68732 2002 EF_{21}	15.9	X	75.19098	183.55249	53.56737	6.53997	0.0788457	0.27441911	2.3452716	21	9 3.0	18.9
68733 2002 EF_{25}	14.3	X	87.20554	16.92051	191.58927	15.86665	0.1518336	0.17192211	3.2031816	21	8 8.3	19.2
68734 2002 EH_{26}	15.8	X	14.07849	3.66708	310.29917	5.98532	0.1237543	0.27644550	2.3337968	21	9 19.4	18.2
68735 2002 ET_{26}	14.4	X	329.98908	20.91815	208.43920	4.97420	0.2042947	0.20497854	2.8488120	21	2 15.6	17.9
68736 2002 EQ_{28}	15.5	X	58.71655	146.35391	144.49722	5.07832	0.1826004	0.22710642	2.6606216	21	11 1.6	19.2
68737 2002 EU_{28}	16.1	X	42.23695	188.09635	148.07766	6.31655	0.1905702	0.28397052	2.2923831	21	12 19.6	19.1
68738 2002 EJ_{35}	15.1	X	51.18305	198.07816	70.02163	0.83344	0.3103868	0.16903878	3.2395037	21	10 4.3	19.3
68739 2002 EK_{38}	15.9	X	331.26156	165.74644	146.37204	4.56974	0.2087190	0.22101741	2.7092665	21	6 13.4	18.7
68740 2002 EY_{38}	16.5	X	0.57663	167.91589	140.13317	3.33595	0.1763246	0.27510440	2.3413753	21	8 20.6	18.2
68741 2002 EM_{40}	13.8	X	82.70630	48.34662	194.66248	10.54893	0.1548101	0.17109703	3.2134712	21	9 17.3	18.5
68742 2002 EO_{41}	15.4	X	345.95071	75.61948	179.51942	8.87587	0.1925077	0.21264660	2.7799080	21	4 23.9	18.3
68743 2002 EY_{42}	16.1	X	184.74027	316.93744	287.46895	2.54325	0.1218300	0.23859790	2.5744926	21	—	—
68744 2002 EV_{43}	15.6	X	102.43999	341.77472	350.84747	2.64155	0.1990607	0.28988494	2.2610957	21	—	—
68745 2002 EP_{45}	15.9	X	52.28579	1.42191	86.60539	5.64183	0.0527288	0.30321071	2.1943523	21	—	—
68746 2002 EM_{46}	16.2	X	167.93703	342.04655	314.10061	2.78664	0.1424182	0.24334864	2.5408758	21	—	—
68747 2002 EL_{49}	16.2	X	298.41189	13.65142	286.69551	0.51842	0.1840446	0.26377092	2.4079721	21	4 2.9	19.4
68748 2002 EE_{57}	16.0	X	127.74201	98.98073	171.28942	13.51835	0.1523709	0.23528841	2.5985776	21	12 12.5	20.4
68749 2002 EJ_{63}	15.8	X	336.11410	125.38854	191.85659	1.99828	0.2188504	0.26996265	2.3710111	21	6 29.5	17.4
68750 2002 EM_{68}	15.9	X	45.42070	169.34307	176.00048	8.62493	0.1497305	0.28471472	2.2883868	21	12 29.2	19.0
68751 2002 ES_{69}	14.5	X	118.64413	125.03359	189.32743	14.10642	0.2146709	0.18550096	3.0448924	21	—	—
68752 2002 EF_{70}	15.8	X	299.89222	283.98020	356.20006	6.07571	0.0767915	0.25975439	2.4327312	21	3 25.1	18.9
68753 2002 EY_{74}	15.4	X	286.47724	303.24747	231.60066	1.61466	0.0479985	0.24242450	2.5473290	21	—	—
68754 2002 EM_{75}	15.5	X	216.40525	321.17984	293.85720	8.95190	0.2027916	0.24564602	2.5250088	21	—	—
68755 2002 EN_{79}	15.6	X	348.61486	351.88719	276.61186	5.46727	0.0851745	0.26406651	2.4061748	21	5 21.8	18.2
68756 2002 EW_{83}	15.8	X	332.49326	207.21208	117.16522	3.39526	0.1828095	0.27056091	2.3675147	21	7 8.2	17.5
68757 2002 EH_{86}	15.0	X	320.93956	132.62000	154.47384	2.38848	0.1731916	0.20995161	2.8036464	21	4 26.4	18.2
68758 2002 EB_{87}	15.7	X	139.28199	48.91770	131.85642	2.77812	0.1624051	0.27393596	2.3480285	21	9 7.0	19.2
68759 2002 EH_{87}	15.2	X	203.08764	166.64382	170.04540	6.24604	0.1581405	0.25423413	2.4678200	21	2 15.6	19.0
68760 2002 EL_{87}	15.5	X	235.34359	170.43334	163.86110	8.07153	0.1437805	0.25826052	2.4421033	21	3 15.8	19.3
68761 2002 ES_{89}	15.9	X	177.32501	333.59566	301.72824	6.77612	0.0916076	0.29419086	2.2389785	21	—	—
68762 2002 EE_{94}	14.3	X	47.82055	160.92483	157.13298	17.73026	0.1960981	0.17981978	3.1086923	21	11 19.0	18.9
68763 2002 ED_{96}	15.2	X	10.17564	62.02370	201.27526	9.07258	0.1485394	0.21470359	2.7621241	21	6 25.6	18.2
68764 2002 EY_{98}	15.6	X	263.18175	299.43286	334.04436	6.10942	0.0670496	0.25380725	2.4705863	21	2 2.6	19.1
68765 2002 EE_{99}	15.1	X	82.51152	111.09170	211.39466	3.74228	0.1629462	0.28325285	2.2962536	21	—	—
68766 2002 EN_{102}	12.6	X	127.59797	65.39010	201.95020	11.30973	0.0344216	0.08272371	5.2165421	21	11 11.7	19.7
68767 2002 ES_{104}	15.5	X	259.05649	159.48184	165.16053	14.45484	0.2587708	0.26274325	2.4142468	21	3 17.9	19.4
68768 2002 EC_{106}	15.2	X	27.23961	182.20135	86.39558	9.35892	0.0974329	0.21904016	2.7255462	21	8 2.8	18.5
68769 2002 ER_{110}	15.1	X	35.58913	102.25392	148.02533	11.91997	0.0816758	0.21781020	2.7357973	21	7 16.7	18.5
68770 2002 EJ_{131}	16.4	X	268.87059	144.88350	170.11656	1.39829	0.1919445	0.25992664	2.4316563	21	3 19.8	19.9
68771 2002 EW_{138}	16.8	X	97.40244	175.69625	163.05855	5.15799	0.1833286	0.29105815	2.2550155	21	—	—
68772 2002 EB_{147}	15.8	X	12.68981	34.81833	257.19406	4.73555	0.1938657	0.27096732	2.3651468	21	8 20.9	17.7
68773 2002 EB_{153}	14.9	X	43.10460	61.90266	188.77291	25.70384	0.2743303	0.21781117	2.7357892	21	8 26.0	18.4
68774 2002 EG_{153}	15.3	X	135.59982	350.69033	312.85724	12.56760	0.1633184	0.23980434	2.5658505	21	—	—
68775 2002 EH_{154}	14.9	X	12.08382	157.55313	174.03021	9.93590	0.1785490	0.22973433	2.6402929	21	10 16.9	17.6
68776 2002 EZ_{154}	15.5	X	172.89421	214.25243	81.05983	5.84781	0.1738534	0.24439243	2.5336360	21	—	—
68777 2002 FD_1	15.3	X	346.36113	309.11142	8.90975	8.38470	0.2273294	0.26855952	2.3792624	21	8 3.5	16.9
68778 2002 FO_2	14.6	X	241.06459	158.17025	185.18983	7.97666	0.2493430	0.25851507	2.4405000	21	3 26.2	18.8
68779 Schoninger	15.4	X	146.28651	44.89904	170.38970	5.03314	0.1460154	0.22875992	2.6477852	21	10 23.5	19.6
68780 2002 FQ_3	15.8	X	172.48489	186.20162	187.25460	3.45076	0.0611857	0.25507203	2.4624126	21	2 25.2	19.0
68781 2002 FN_7	14.9	X	157.66674	356.53571	207.13987	17.55318	0.1316803	0.22702291	2.6612740	21	10 18.2	19.1
68782 2002 FW_7	15.1	X	12.30207	358.21321	305.77563	6.59137	0.1145419	0.27312048	2.3526999	21	8 30.6	17.4
68783 2002 FZ_9	15.6	X	59.61883	5.37242	240.45395	3.77242	0.0334986	0.27115436	2.3640591	21	8 10.5	18.5
68784 2002 FK_{10}	15.9	X	30.15493	295.49755	295.55186	5.71658	0.0937382	0.26596834	2.3946907	21	6 10.2	18.4
68785 2002 FS_{11}	14.6	X	189.67282	33.47347	193.17844	10.58203	0.1096831	0.18352891	3.0666654	21	12 10.9	19.5
68786 2002 FA_{13}	15.3	X	11.28479	112.94824	172.84998	8.25177	0.1847341	0.21634197	2.7481612	21	8 2.5	18.1
68787 2002 FJ_{13}	15.1	X	12.93624	155.26234	167.97536	7.49062	0.1375537	0.27414743	2.3468208	21	10 8.2	17.3
68788 2002 FU_{13}	12.7	X	237.22945	76.69177	82.65936	6.45614	0.0401272	0.08135635	5.2748292	21	11 6.5	19.7
68789 2002 FD_{17}	15.0	X	179.09962	339.80588	150.68001	7.64619	0.1018278	0.21807526	2.7335800	21	8 7.9	19.1
68790 2002 FL_{28}	14.0	X	354.55908	189.00850	115.12888	16.67067	0.1564178	0.17167863	3.2062094	21	7 24.3	17.7
68791 2002 FR_{30}	14.5	X	2.69376	218.53640	59.06548	11.86771	0.0478381	0.16901501	3.2398074	21	7 1.9	18.9
68792 2002 FY_{30}	15.0	X	84.25212	51.69561	147.56864	9.87496	0.0612397	0.21348614	2.7726152	21	7 14.6	18.9
68793 2002 GR_4	15.3	X	190.03469	184.79958	188.94414	23.95882	0.1940900	0.30752683	2.1737722	21	3 16.8	18.9
68794 2002 GZ_6	14.9	X	325.37689	358.86280	138.77871	19.57451	0.0861680	0.24264902	2.5457575	21	—	—
68795 2002 GE_9	15.6	X	73.99384	185.09719	168.77974	5.98850	0.1981869	0.28570777	2.2830812	21	—	—
68796 2002 GF_9	14.6	X	117.49672	113.79997	190.04956	14.04761	0.2190800	0.18032868	3.1028409	21	—	—
68797 2002 GG_{10}	14.9	X	92.87992	49.14282	168.84945	8.60960	0.0693676	0.21703043	2.7423463	21	8 20.9	18.8
68798 2002 GX_{15}	15.6	X	170.42790	116.38170	165.10720	3.63484	0.1387459	0.23995425	2.5647818	21	—	—
68799 2002 GZ_{16}	14.9	X	120.94076	76.09725	181.24794	4.96808	0.1425877	0.17695449	3.1421602	21	11 13.2	19.8
68800 2002 GY_{18}	15.4	X	87.65196	282.74000	28.42487	5.15275	0.1598436	0.28148806	2.3058412	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68801 2002 GR_{20}	15.3	X	327.28526	326.10771	13.58335	7.52833	0.1298488	0.26762029	2.3848260	21	8 1.2	17.7
68802 2002 GK_{21}	14.5	X	71.94362	259.04932	37.50108	1.09205	0.1756883	0.17282962	3.1919587	21	11 12.9	19.0
68803 2002 GT_{25}	14.8	X	171.44059	300.31864	310.94732	6.65046	0.2541357	0.18327749	3.0694693	21	12 16.7	20.2
68804 2002 GG_{26}	15.5	X	266.95162	186.75988	283.72311	5.83510	0.1111606	0.28146391	2.3059731	21	10 30.6	18.2
68805 2002 GW_{38}	14.8	X	257.26393	110.58318	186.02284	8.09855	0.1561960	0.20104202	2.8858793	21	2 22.3	19.5
68806 2002 GR_{40}	15.9	X	93.64600	341.77502	336.63993	6.35841	0.1154403	0.28588673	2.2821283	21	—	—
68807 2002 GJ_{43}	16.0	X	173.93026	151.71573	198.75331	3.29697	0.2080033	0.30125633	2.2038326	21	2 2.5	19.4
68808 2002 GR_{50}	15.3	X	142.09087	8.97426	223.02210	11.90975	0.1195598	0.23005016	2.6378759	21	11 7.4	19.4
68809 2002 GB_{54}	14.6	X	136.04897	329.00294	316.29295	8.03268	0.1518500	0.18304277	3.0720928	21	12 29.1	19.7
68810 2002 GO_{54}	15.7	X	283.69880	342.45035	273.09496	5.18117	0.0883750	0.25344420	2.4729451	21	1 30.0	19.1
68811 2002 GD_{55}	15.4	X	341.58504	347.28955	325.97524	6.38822	0.1199120	0.26927952	2.3750194	21	7 17.5	17.5
68812 2002 GB_{56}	14.6	X	63.72683	116.40164	196.31447	1.23314	0.2240313	0.17309306	3.1887192	21	11 29.4	19.3
68813 2002 GR_{64}	15.0	X	140.29949	133.15517	200.41629	10.46559	0.0645771	0.19003010	2.9963171	21	—	—
68814 2002 GP_{66}	15.3	X	335.63094	179.89792	174.22072	5.75148	0.2004811	0.27227034	2.3575948	21	9 4.8	16.7
68815 2002 GB_{67}	15.9	X	166.21321	256.42326	22.93083	3.12250	0.0717651	0.23875807	2.5733410	21	—	—
68816 2002 GF_{67}	16.0	X	199.64014	177.96220	167.50021	0.74588	0.0403258	0.25363254	2.4717207	21	2 20.8	19.3
68817 2002 GV_{70}	15.2	X	69.17176	198.35625	189.50185	12.87970	0.1695880	0.23984513	2.5655597	21	—	—
68818 2002 GH_{71}	14.4	X	108.36872	190.10072	177.43529	17.18292	0.2074531	0.24391133	2.5369665	21	—	—
68819 2002 GO_{71}	16.2	X	291.25710	121.40688	122.73287	4.43190	0.0387054	0.25298667	2.4759258	21	2 1.5	19.4
68820 2002 GB_{72}	15.5	X	14.17760	113.34401	180.76980	12.14016	0.1756969	0.21825257	2.7320992	21	8 19.8	18.4
68821 2002 GM_{73}	14.8	X	89.90950	86.06741	180.26741	17.90230	0.1404329	0.17418387	3.1753926	21	10 25.6	19.7
68822 2002 GD_{76}	15.0	X	57.82001	187.74381	201.83326	12.22023	0.2359963	0.24171581	2.5523056	21	—	—
68823 2002 GZ_{80}	15.8	X	120.54469	206.63790	101.40633	3.88597	0.0793542	0.23629199	2.5912146	21	—	—
68824 2002 GB_{81}	15.5	X	351.88987	216.08653	158.65760	6.66384	0.1455043	0.27952440	2.3166276	21	11 18.6	17.7
68825 2002 GH_{81}	15.7	X	56.62584	214.89877	136.86355	5.21907	0.1842064	0.28399652	2.2922433	21	—	—
68826 2002 GP_{82}	15.0	X	200.67905	136.83871	145.75308	7.24987	0.1563230	0.19079153	2.9883398	21	—	—
68827 2002 GB_{85}	15.5	X	313.22470	321.64747	172.40520	12.94093	0.1057465	0.24031677	2.5622018	21	—	—
68828 2002 GA_{86}	15.2	X	279.65161	123.07661	154.08394	6.46181	0.0229785	0.20353359	2.8622792	21	3 12.3	19.1
68829 2002 GE_{88}	15.4	X	128.73364	88.44041	159.60431	8.92825	0.0231307	0.22843235	2.6503159	21	11 12.0	19.2
68830 2002 GF_{88}	15.2	X	307.50574	212.44388	132.78685	7.53506	0.0456621	0.21592001	2.7517404	21	7 12.3	18.8
68831 2002 GG_{89}	14.4	X	73.61133	70.62489	123.96325	15.26489	0.1467348	0.21394913	2.7686137	21	7 7.9	18.0
68832 2002 GW_{91}	14.8	X	79.52631	145.44813	223.76840	15.19126	0.2295897	0.24141417	2.5544312	21	—	—
68833 2002 GL_{98}	15.5	X	289.29738	99.35101	230.91094	4.06845	0.1849372	0.26600271	2.3944844	21	5 1.9	18.6
68834 2002 GU_{104}	14.1	X	21.27792	250.65516	102.31518	12.42011	0.0840863	0.17434594	3.1734244	21	11 9.9	18.5
68835 2002 GC_{105}	14.9	X	91.20725	156.75527	166.94313	18.61815	0.2496861	0.23449140	2.6044625	21	—	—
68836 2002 GU_{105}	15.2	X	190.80856	227.67643	146.08378	13.06103	0.2151021	0.25737313	2.4477135	21	3 27.4	19.4
68837 2002 GO_{109}	15.0	X	14.89527	248.82992	160.27078	15.44869	0.0897474	0.23629590	2.5911860	21	—	—
68838 2002 GL_{115}	15.9	X	5.86456	220.28549	144.64965	7.73571	0.1151806	0.28032535	2.3122128	21	11 25.5	18.4
68839 2002 GJ_{116}	15.5	X	195.57315	243.98431	112.17173	7.60087	0.1998983	0.25308049	2.4753138	21	3 9.6	19.6
68840 2002 GB_{118}	16.2	X	118.08792	322.86015	148.01764	6.16079	0.0897960	0.26079257	2.4262706	21	5 5.2	19.5
68841 2002 GJ_{118}	15.2	X	53.72364	178.80649	147.98704	15.51874	0.0927132	0.23086639	2.6316547	21	11 30.5	19.1
68842 2002 GM_{122}	15.6	X	257.85996	181.65700	168.69284	6.59638	0.1508823	0.26234308	2.4167013	21	4 28.9	19.1
68843 2002 GJ_{127}	15.8	X	5.19712	145.22252	213.39231	4.31674	0.2163827	0.27985127	2.3148234	21	11 29.1	17.8
68844 2002 GL_{132}	15.7	X	123.53180	349.90031	13.66890	2.66637	0.1814512	0.24417840	2.5351163	21	1 4.3	19.0
68845 2002 GU_{137}	15.3	X	225.95409	315.82700	305.97686	3.33192	0.1283180	0.19222105	2.9735055	21	—	—
68846 2002 GV_{144}	16.2	X	16.26268	199.55531	122.90847	3.29594	0.1748259	0.27509126	2.3414498	21	10 19.3	18.4
68847 2002 GK_{155}	15.4	X	243.67035	204.54968	140.29037	7.09349	0.1586242	0.26039465	2.4287418	21	4 7.3	19.1
68848 2002 GU_{158}	15.4	X	186.00400	206.43117	189.73629	13.09183	0.1254245	0.25759542	2.4463051	21	4 15.6	19.2
68849 2002 GH_{161}	14.6	X	171.26014	225.01385	99.58515	10.89351	0.0782291	0.19285214	2.9670150	21	1 7.6	18.9
68850 2002 GK_{165}	15.3	X	7.77176	290.41703	171.46688	3.12949	0.0796625	0.24233344	2.5479671	21	—	—
68851 2002 HV	14.2	X	266.33420	354.68851	181.66870	12.23047	0.2443931	0.18724489	3.0259569	21	12 18.3	18.4
68852 2002 HO_{3}	15.0	X	351.18707	177.66514	108.72904	10.36123	0.1322498	0.21280654	2.7785149	21	6 23.3	18.1
68853 Vaimaca	14.9	X	138.04139	243.31571	324.59742	12.20861	0.2398091	0.22469211	2.6796465	21	10 2.7	19.8
68854 2002 HS_{9}	14.9	X	339.23324	75.58081	196.90825	7.60727	0.1638199	0.20950238	2.8076528	21	5 9.3	17.9
68855 2002 HS_{12}	15.7	X	133.93856	140.16281	156.47930	7.99431	0.2172108	0.23562932	2.5960706	21	—	—
68856 2002 HL_{15}	14.6	X	165.82639	196.04883	125.77099	11.42666	0.1382805	0.19181573	2.9776928	21	1 3.8	19.3
68857 2002 JF	15.9	X	199.20706	317.78449	190.72059	6.88046	0.0996066	0.27775536	2.3264537	21	9 26.8	19.0
68858 2002 JW	14.1	X	162.42019	240.17242	83.61061	11.52471	0.1113422	0.18873418	3.0100175	21	1 1.0	18.7
68859 2002 JZ	14.8	X	126.22347	136.72256	138.84732	11.46403	0.0668112	0.17757065	3.1348873	21	12 6.3	19.7
68860 2002 JF_{2}	14.9	X	238.66867	35.26932	145.44820	14.34556	0.0964697	0.23564762	2.5959362	21	12 21.1	18.6
68861 2002 JQ_{3}	14.2	X	100.48277	48.67255	218.94567	16.92994	0.1139757	0.17504918	3.1649195	21	11 1.9	19.1
68862 2002 JU_{5}	15.3	X	51.81329	231.88279	152.83080	12.76040	0.0554422	0.23722316	2.5844293	21	—	—
68863 2002 JS_{6}	14.5	X	48.00098	230.21121	120.13917	9.96582	0.0362818	0.17639246	3.1488311	21	12 2.8	19.0
68864 2002 JW_{9}	14.4	X	52.02285	223.31464	137.81151	23.18881	0.0901346	0.17926217	3.1151356	21	12 28.6	19.1
68865 2002 JR_{14}	15.3	X	75.28758	178.41982	99.84215	5.45960	0.0613629	0.22562119	2.6722852	21	10 20.2	19.0
68866 2002 JG_{15}	14.5	X	102.28649	120.57488	200.50484	9.76515	0.0891579	0.18016020	3.1047751	21	—	—
68867 2002 JE_{16}	14.3	X	227.23475	247.40110	232.33271	21.21242	0.0513461	0.22429082	2.6828417	21	9 15.3	18.5
68868 2002 JY_{22}	14.8	X	203.58285	64.96104	151.15913	1.48913	0.1990395	0.18332684	3.0689184	21	12 4.9	19.7
68869 2002 JL_{25}	15.5	X	322.78227	265.16646	88.55299	7.55336	0.1536401	0.26797146	2.3827420	21	8 11.1	17.7
68870 2002 JU_{26}	14.8	X	37.25735	129.68570	196.08968	13.47226	0.2116243	0.22225830	2.6991730	21	11 21.9	18.4
68871 2002 JC_{35}	15.1	X	296.84553	37.84281	107.25224	4.39472	0.1682597	0.23813398	2.5778351	21	—	—
68872 2002 JP_{36}	14.7	X	129.57930	31.36063	168.19075	9.16127	0.1596063	0.22089721	2.7102492	21	9 17.7	18.9
68873 2002 JC_{37}	14.7	X	191.03184	86.53512	146.10450	16.35119	0.0681900	0.23446525	2.6046561	21	12 31.9	18.7
68874 2002 JZ_{37}	14.7	X	234.09039	334.03496	246.29867	8.19251	0.1066700	0.18704431	3.0281197	21	—	—
68875 2002 JT_{40}	14.9	X	311.50180	166.83643	219.89446	10.35977	0.1981044	0.27547472	2.3392765	21	8 27.4	17.1
68876 2002 JR_{41}	15.2	X	312.97905	40.03839	202.01976	2.43907	0.0881117	0.20298978	2.8673889	21	2 27.2	19.0
68877 2002 JW_{42}	14.1	X	230.23923	169.90405	196.26122	14.48557	0.2418658	0.20442021	2.8539969	21	4 19.1	18.9
68878 2002 JN_{46}	14.3	X	350.22215	100.61968	233.94217	13.63880	0.2989155	0.21622527	2.7491498	21	8 25.8	16.5
68879 2002 JB_{47}	15.2	X	1.40455	348.38703	7.10991	7.19523	0.1336310	0.27433514	2.3457502	21	10 31.2	17.5
68880 2002 JM_{49}	14.5	X	109.86398	19.32822	259.36086	7.99116	0.0420735	0.17662330	3.1460869	21	11 17.7	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68881 2002 JH_{54}	15.1	X	113.64050	344.66351	277.42242	0.84618	0.1107027	0.17521860	3.1628789	21	11 8.2	20.0
68882 2002 JM_{60}	15.0	X	127.87605	76.60850	156.62354	5.35956	0.1252852	0.17438282	3.1729770	21	10 21.9	20.0
68883 2002 JQ_{60}	15.2	X	175.99312	29.91672	264.70326	8.84476	0.1821437	0.23861539	2.5743667	21	—	—
68884 2002 JZ_{62}	14.7	X	257.22751	82.95266	192.02637	8.80900	0.0697255	0.19522384	2.9429360	21	2 4.2	19.3
68885 2002 JY_{70}	15.3	X	357.35439	181.38580	189.94785	6.18869	0.1418253	0.27856328	2.3219532	21	11 22.1	17.5
68886 2002 JX_{71}	14.8	X	357.99684	228.07791	111.65024	9.37963	0.2328001	0.21789102	2.7351207	21	10 6.7	17.4
68887 2002 JP_{72}	14.7	X	112.45101	129.02566	160.24405	9.04967	0.0401126	0.17751487	3.1355439	21	12 5.2	19.4
68888 2002 JM_{73}	14.0	X	40.30235	156.52128	187.84708	14.84649	0.1164677	0.17371915	3.1810531	21	11 26.3	18.5
68889 2002 JT_{73}	14.1	X	67.51902	105.48177	206.27455	19.44179	0.1084377	0.17239025	3.1973800	21	11 18.4	18.8
68890 2002 JF_{76}	15.7	X	155.70747	48.01949	212.35120	14.28154	0.0703161	0.23496577	2.6009559	21	12 25.5	19.7
68891 2002 JS_{79}	14.9	X	178.56466	242.49251	23.79471	0.83088	0.1250698	0.18584218	3.0411641	21	—	—
68892 2002 JV_{81}	15.7	X	275.36895	345.81010	36.89064	3.18852	0.1613437	0.26977832	2.3720911	21	6 30.5	18.7
68893 2002 JE_{84}	15.2	X	229.37609	118.46968	186.71488	1.61755	0.0609603	0.19803518	2.9150174	21	2 12.4	19.6
68894 2002 JH_{84}	16.6	X	135.13832	302.31048	211.15830	1.51668	0.0901516	0.26790328	2.3831463	21	7 21.8	19.9
68895 2002 JR_{84}	15.4	X	225.37803	161.34853	237.59249	5.78495	0.1362664	0.26303602	2.4124551	21	5 27.9	18.8
68896 2002 JN_{85}	14.1	X	2.54535	139.16573	224.86827	10.29559	0.0975090	0.17331566	3.1859884	21	10 23.0	18.0
68897 2002 JV_{85}	14.4	X	341.95034	319.19552	353.32164	7.61129	0.2128737	0.21331973	2.7740569	21	7 9.1	17.1
68898 2002 JV_{89}	16.0	X	144.10540	161.04685	342.15576	2.53701	0.1105414	0.26853432	2.3794113	21	7 20.6	19.4
68899 2002 JL_{95}	15.2	X	132.83887	298.68739	14.30711	1.06203	0.1618593	0.18131101	3.0916235	21	—	—
68900 2002 JC_{98}	13.8	X	296.44651	137.41965	140.18878	12.99028	0.0865630	0.15060748	3.4986865	21	4 3.6	18.8
68901 2002 JO_{100}	15.1	X	169.85698	48.75854	150.81722	13.60275	0.1178198	0.22837879	2.6507303	21	10 29.8	19.4
68902 2002 JD_{101}	14.6	X	317.48059	290.89675	158.79736	22.11618	0.0534769	0.23116197	2.6294109	21	12 19.1	18.4
68903 2002 JG_{101}	14.6	X	79.45568	128.99116	143.27477	22.89203	0.0715244	0.16994958	3.2279191	21	10 16.1	19.6
68904 2002 JU_{103}	14.7	X	126.95951	239.67699	102.42573	2.96237	0.2191603	0.18337235	3.0684106	21	—	—
68905 2002 JZ_{104}	15.6	X	56.90481	169.20020	157.83416	4.34626	0.1709336	0.28066496	2.3103472	21	12 21.2	18.8
68906 2002 JO_{107}	15.3	X	19.06539	315.41760	309.04434	11.21361	0.1501840	0.21731673	2.7399372	21	7 17.4	18.1
68907 2002 JV_{110}	14.3	X	105.63413	71.40669	266.30446	9.63465	0.1122521	0.18184510	3.0855670	21	—	—
68908 2002 JW_{117}	14.3	X	103.09056	243.05512	129.79220	11.32148	0.1297879	0.18733489	3.0249877	21	—	—
68909 2002 JN_{119}	15.3	X	27.95835	190.41357	112.12743	15.18880	0.1865501	0.22032373	2.7149502	21	10 9.9	18.7
68910 2002 JB_{120}	15.2	X	297.35118	215.86451	128.13466	15.32241	0.1177290	0.21402061	2.7679972	21	6 17.1	19.0
68911 2002 JS_{120}	14.6	X	139.95947	137.22753	126.25156	13.16718	0.1158292	0.17956235	3.1116628	21	12 7.9	19.7
68912 2002 JE_{122}	14.3	X	11.04968	297.46152	259.05368	13.69529	0.0917134	0.20495473	2.8490326	21	3 18.1	18.1
68913 2002 JB_{129}	15.7	X	75.55369	202.06331	131.78931	2.29550	0.0829658	0.23063309	2.6334292	21	12 30.4	19.5
68914 2002 JR_{132}	16.1	X	190.42782	303.60363	214.86644	1.30118	0.0348243	0.22498618	2.6773110	21	9 29.4	19.8
68915 2002 KQ_{8}	14.5	X	111.04116	200.40142	147.33554	12.10708	0.1392077	0.18354964	3.0664344	21	—	—
68916 2002 KV_{9}	15.0	X	149.65540	122.16124	140.95322	4.33531	0.0660759	0.18033269	3.1027949	21	12 14.6	19.7
68917 2002 KW_{9}	15.2	X	44.28491	185.44298	51.44214	6.23821	0.0634173	0.21462464	2.7628014	21	7 10.8	18.7
68918 2002 KZ_{9}	15.3	X	25.65278	165.24462	212.21645	6.47772	0.1347385	0.28215196	2.3022227	21	—	—
68919 2002 LL_{3}	14.2	X	57.55946	204.44237	166.58995	22.23203	0.0571282	0.17848683	3.1241504	21	—	—
68920 2002 LT_{3}	15.1	X	26.91043	184.37752	171.13635	14.58985	0.0886924	0.22570483	2.6716249	21	11 29.2	18.8
68921 2002 LQ_{6}	14.5	X	51.89380	190.02599	151.50764	9.42658	0.1862759	0.17220050	3.1997283	21	12 15.8	19.1
68922 2002 LW_{12}	13.0	X	339.59273	65.11999	247.48781	17.37838	0.0469426	0.15789341	3.3902109	21	7 10.5	17.8
68923 2002 LV_{40}	14.2	X	117.78428	127.64840	223.33038	16.03924	0.2293516	0.18043785	3.1015892	21	—	—
68924 2002 LT_{47}	13.9	X	68.83633	159.78039	160.76342	15.00528	0.1203678	0.17081428	3.2170163	21	12 3.0	18.8
68925 2002 LP_{49}	15.3	X	126.43665	42.07028	234.12918	14.05865	0.1222122	0.23129644	2.6283916	21	12 15.4	19.5
68926 2002 ME_{3}	14.2	X	39.68081	162.49427	206.01880	19.17988	0.1768754	0.17404800	3.1770449	21	12 29.1	18.9
68927 2002 NB_{28}	13.8	X	211.38617	26.03451	312.92125	9.00350	0.0798904	0.18508132	3.0494931	21	3 4.7	18.6
68928 2002 NG_{33}	13.9	X	218.15152	104.36851	283.00801	8.28470	0.0958686	0.19091461	2.9870554	21	5 9.2	18.6
68929 2002 OB_{4}	14.6	X	176.14273	116.01374	298.41370	11.36874	0.1548756	0.23876253	2.5733090	21	4 25.5	19.0
68930 2002 OD_{4}	14.5	X	131.05229	165.10465	223.99602	13.78507	0.2123024	0.22899168	2.6459984	21	2 14.9	18.8
68931 2002 OJ_{8}	15.4	X	121.47177	129.10280	285.17357	1.96079	0.0601101	0.23981413	2.5657807	21	2 17.9	18.7
68932 2002 OB_{13}	14.1	X	120.64336	169.47116	227.76395	8.98770	0.2423338	0.18394219	3.0620703	21	2 25.4	18.9
68933 2002 OM_{20}	13.0	X	108.58118	218.51855	157.36794	7.93743	0.2495943	0.12711217	3.9175207	21	1 31.7	18.8
68934 2002 PA_{15}	14.4	X	297.60190	297.18682	159.46413	6.69257	0.0935064	0.16894853	3.2406573	21	11 12.9	18.7
68935 2002 PE_{32}	15.0	X	308.00625	155.37247	272.13728	3.09508	0.0676404	0.21513506	2.7584297	21	10 29.4	18.5
68936 2002 PM_{46}	15.1	X	118.13179	147.53328	175.10898	11.90973	0.1983216	0.22365112	2.6879550	21	—	—
68937 2002 PQ_{49}	14.5	X	332.03453	115.72251	314.99201	10.84308	0.2087961	0.20941360	2.8084463	21	12 10.8	17.4
68938 2002 PU_{49}	16.0	X	8.19425	321.23894	20.71132	2.67049	0.2047584	0.26075855	2.4264816	21	11 1.8	18.3
68939 2002 PM_{102}	14.7	X	168.61441	203.62014	229.69249	11.36548	0.0508954	0.19709331	2.9242969	21	5 14.9	19.0
68940 2002 PB_{116}	13.7	X	138.63518	82.11623	236.28844	11.92188	0.0459320	0.17233728	3.1980351	21	—	—
68941 2002 PX_{124}	15.5	X	43.04188	218.58634	162.24036	9.49985	0.2232486	0.21985466	2.7188105	21	—	—
68942 2002 PY_{125}	15.0	X	233.67958	299.33013	79.08691	3.09226	0.0710535	0.19784608	2.9168745	21	5 18.7	19.2
68943 2002 PZ_{126}	15.3	X	65.06592	39.76239	1.51438	12.36163	0.0542834	0.27871952	2.3210855	21	—	—
68944 2002 PQ_{130}	14.2	X	242.09220	253.20136	209.21781	23.07760	0.3193377	0.25630017	2.4545400	21	8 12.3	18.8
68945 2002 PF_{132}	14.1	X	64.63029	99.81527	306.38243	3.93909	0.1501563	0.17810308	3.1286364	21	—	—
68946 2002 PX_{138}	15.1	X	357.83140	243.51028	89.23508	9.43650	0.2929303	0.26013463	2.4303600	21	10 14.3	16.8
68947 Brunofunk	15.7	X	52.01471	337.15429	321.68124	2.92065	0.0782221	0.21401394	2.7680547	21	10 13.5	19.3
68948 Mikeoates	15.8	X	48.94456	243.48866	40.45553	1.20863	0.0372316	0.21085897	2.7955976	21	9 15.4	19.4
68949 2002 QN_{6}	15.5	X	10.42422	274.99342	302.07047	11.30720	0.1581640	0.24631724	2.5204196	21	4 5.6	18.3
68950 2002 QF_{15}	16.4	X	46.25264	255.56352	236.22238	25.15090	0.3443665	0.90689237	1.0570582	21	—	—
68951 2002 QH_{27}	16.3	X	104.61985	189.97471	58.64909	2.03879	0.1212287	0.26651464	2.3914171	21	10 26.1	19.6
68952 2002 QC_{29}	15.0	X	326.62242	147.74065	352.36522	8.49862	0.0748714	0.23008586	2.6376030	21	—	—
68953 2002 RS	14.5	X	54.65130	277.16708	153.00523	0.37991	0.1674505	0.17249770	3.1960520	21	1 2.9	18.2
68954 2002 RB_{3}	15.4	X	319.94422	351.52827	21.86570	3.87734	0.1842331	0.25826423	2.4420799	21	8 31.7	17.5
68955 2002 RR_{12}	14.7	X	27.18698	339.65688	85.42790	0.20290	0.1308453	0.16959023	3.2324774	21	—	—
68956 2002 RD_{18}	14.6	X	176.71557	227.29898	148.84269	4.88754	0.0949572	0.18596944	3.0397765	21	3 18.1	19.2
68957 2002 RE_{25}	15.6	X	78.93781	180.16142	206.70860	4.62630	0.2343719	0.27328473	2.3517572	21	—	—
68958 2002 RT_{32}	16.1	X	15.26910	240.52991	261.87939	2.73183	0.0517407	0.28544246	2.2844957	21	1 1.7	18.6
68959 2002 RX_{45}	15.6	X	49.26168	242.49775	85.30845	2.32199	0.1994931	0.26722397	2.3871834	21	12 14.6	18.7
68960 2002 RE_{49}	15.7	X	327.83176	45.05119	18.52705	6.32729	0.0950929	0.26594371	2.3948385	21	12 5.5	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
68961 2002 RE_{50}	15.8	X	204.78023	164.22098	129.37766	2.25879	0.1406024	0.23198393	2.6231963	21	—	—
68962 2002 RC_{52}	15.3	X	113.74758	309.53377	51.58729	5.01506	0.1065410	0.22601875	2.6691506	21	—	—
68963 2002 RO_{63}	15.6	X	141.97143	308.95147	53.60043	7.51583	0.1625952	0.28035249	2.3120636	21	1 16.2	18.7
68964 2002 RV_{75}	15.6	X	113.66464	187.34734	197.16939	2.06663	0.0526867	0.23094904	2.6310268	21	1 1.8	19.0
68965 2002 RH_{88}	14.7	X	267.91802	30.50235	331.47563	1.16579	0.1057066	0.19598559	2.9353054	21	6 2.3	18.9
68966 2002 RA_{94}	16.4	X	33.48424	138.53819	157.04846	2.90197	0.1452319	0.31131824	2.1560873	21	10 9.0	18.4
68967 2002 RN_{95}	14.7	X	92.84020	166.11680	195.26562	5.00774	0.0723578	0.22235787	2.6983672	21	—	—
68968 2002 RS_{101}	15.9	X	176.35701	1.29551	36.44879	4.60670	0.2771398	0.23724663	2.5842588	21	4 14.6	20.6
68969 2002 RW_{101}	15.6	X	175.72058	232.89953	203.74922	3.79256	0.2448372	0.24014116	2.5634507	21	5 30.5	20.0
68970 2002 RK_{102}	15.3	X	98.32699	9.53502	17.32603	5.16664	0.1767251	0.22384214	2.6864256	21	1 4.6	18.6
68971 2002 RK_{104}	16.2	X	105.41158	181.23294	197.62552	3.59499	0.1553116	0.27744954	2.3281629	21	—	—
68972 2002 RJ_{106}	15.3	X	269.84826	163.87044	189.86424	6.38787	0.2450522	0.24582912	2.5237549	21	5 5.9	19.2
68973 2002 RW_{106}	14.4	X	17.36017	346.47168	54.05081	10.34075	0.1570953	0.21212003	2.7845067	21	—	—
68974 2002 RO_{107}	15.7	X	264.92978	187.73446	167.46840	2.25105	0.2615459	0.24558397	2.5254341	21	4 30.9	19.6
68975 2002 RU_{107}	14.8	X	93.10585	351.25872	44.20325	2.65814	0.2019503	0.17114383	3.2128853	21	1 24.5	19.1
68976 2002 RJ_{116}	16.7	X	18.46653	229.86139	102.06039	1.92146	0.2697831	0.26213183	2.4179995	21	11 18.8	19.1
68977 2002 RE_{127}	14.9	X	56.16207	216.68501	235.83460	13.20753	0.0806307	0.23324002	2.6137698	21	1 7.9	18.2
68978 2002 RN_{133}	16.0	X	249.47184	224.46387	82.09878	6.67986	0.1090610	0.29263831	2.2468906	21	2 22.6	19.2
68979 2002 RJ_{173}	14.9	X	109.15140	240.01933	139.31921	13.78215	0.1868760	0.22727244	2.6593257	21	1 9.8	18.4
68980 2002 RP_{181}	14.3	X	76.80791	341.47386	99.60909	2.72123	0.0803449	0.17590149	3.1546877	21	2 9.3	18.4
68981 2002 SO_{27}	15.4	X	167.93827	262.12787	128.00291	5.37324	0.1613679	0.23616874	2.5921160	21	3 26.0	19.5
68982 2002 SR_{29}	15.1	X	258.76570	29.39896	33.97943	6.60251	0.1124830	0.25547120	2.4598469	21	8 15.0	18.3
68983 2002 SB_{40}	15.6	X	327.21061	339.97324	27.68052	11.86926	0.1504242	0.25807368	2.4432819	21	9 15.1	17.9
68984 2002 SF_{57}	14.3	X	101.96968	1.08612	60.64955	11.43718	0.1379756	0.17733084	3.1377129	21	3 3.2	18.9
68985 2002 TK_{10}	14.5	X	115.42791	27.34182	40.75482	0.44962	0.1474760	0.17847807	3.1242526	21	3 21.8	19.0
68986 2002 TN_{28}	15.2	X	236.34684	11.60908	54.17377	2.83406	0.1046146	0.19715295	2.9237071	21	7 18.3	19.5
68987 2002 TT_{32}	14.9	X	235.80818	244.99921	158.63767	2.82977	0.0763456	0.19422870	2.9529796	21	6 21.7	19.3
68988 2002 TU_{34}	14.4	X	46.14683	332.51869	169.83732	1.44993	0.1273611	0.18082206	3.0971943	21	3 16.8	18.2
68989 2002 TP_{39}	15.4	X	119.29996	210.72918	205.28086	1.68663	0.2005737	0.22865234	2.6486157	21	3 11.2	19.1
68990 2002 TY_{44}	14.8	X	158.46799	328.85259	130.92615	1.99370	0.1432340	0.18872273	3.0101392	21	6 11.0	19.6
68991 2002 TK_{45}	14.5	X	166.85457	184.38625	219.46510	8.77178	0.0803373	0.18380672	3.0635746	21	4 7.4	19.1
68992 2002 TF_{54}	14.3	X	282.72114	51.51850	66.64606	15.94354	0.1002987	0.20656209	2.8342336	21	11 23.8	17.7
68993 2002 TF_{72}	14.8	X	7.18996	158.36981	325.67118	8.25953	0.1600572	0.22351354	2.6890579	21	—	—
68994 2002 TK_{91}	15.3	X	26.78529	155.31788	231.05468	7.44889	0.2237293	0.26714897	2.3876301	21	—	—
68995 2002 TF_{112}	14.1	X	53.02277	80.69783	20.91994	12.07364	0.1474704	0.17869775	3.1216916	21	2 11.2	18.0
68996 2002 TN_{135}	15.5	X	202.30738	192.85776	111.46556	8.30353	0.1272834	0.28260196	2.2997781	21	1 1.3	18.8
68997 2002 TE_{136}	13.8	X	280.91739	29.93308	337.75295	11.47751	0.0749879	0.19621018	2.9330651	21	7 2.9	18.0
68998 2002 TC_{157}	14.1	X	18.67503	329.25373	146.33151	17.73389	0.0881651	0.17271715	3.1933442	21	—	—
68999 2002 TQ_{157}	15.0	X	219.29138	234.16089	108.81027	10.30454	0.2306947	0.23906734	2.5711212	21	3 15.3	19.6
69000 2002 TL_{173}	14.9	X	151.56400	301.99261	47.03253	9.70661	0.0589159	0.22970499	2.6405178	21	1 6.6	18.7
69001 2002 TM_{173}	14.0	X	219.95609	271.19461	48.35987	12.49950	0.1336431	0.18427371	3.0583966	21	2 26.0	19.1
69002 2002 TX_{181}	15.3	X	286.46782	177.58426	196.52290	1.46558	0.1057405	0.19671896	2.9280056	21	7 12.3	19.3
69003 2002 TK_{196}	14.1	X	108.40599	195.84431	259.54135	31.87481	0.1475361	0.22823992	2.6518054	21	3 30.7	18.5
69004 2002 TL_{198}	14.0	X	301.96360	177.35168	23.01601	15.25343	0.2242418	0.17531241	3.1617506	21	—	—
69005 2002 TZ_{207}	14.9	X	238.76329	116.17886	6.99654	6.16330	0.2307489	0.20168917	2.8797028	21	9 17.8	19.3
69006 2002 TS_{212}	15.0	X	97.23715	223.05839	139.86101	14.97488	0.1088182	0.22391678	2.6858286	21	—	—
69007 2002 TN_{217}	14.6	X	49.88829	53.17139	57.99780	1.26697	0.1203896	0.17578778	3.1560479	21	2 11.8	18.5
69008 2002 TV_{240}	14.9	X	155.79742	264.58887	99.24120	10.94152	0.1367929	0.23000915	2.6381894	21	2 8.6	18.9
69009 2002 TJ_{250}	15.0	X	272.19477	303.73532	140.84105	2.76496	0.0306527	0.20314608	2.8659179	21	10 6.7	18.8
69010 2002 TD_{256}	15.5	X	243.92483	356.74352	214.48335	7.40041	0.0659879	0.27338688	2.3511713	21	—	—
69011 2002 TF_{259}	14.6	X	181.64283	220.15649	197.38764	6.97189	0.1287131	0.18607412	3.0386363	21	5 12.8	19.5
69012 2002 TC_{284}	16.1	X	73.53871	112.14422	354.95217	7.20386	0.0681489	0.28326814	2.2961710	21	2 16.3	18.5
69013 2002 TP_{290}	14.3	X	206.21472	154.64299	260.42175	9.27418	0.1066558	0.19070699	2.9892230	21	6 1.7	19.0
69014 2002 UD_{1}	12.9	X	354.63137	286.02333	199.67488	16.56072	0.1271099	0.17215993	3.2002310	21	—	—
69015 2002 UE_{26}	15.7	X	140.39736	283.45908	181.77498	10.28212	0.1535448	0.23947958	2.5681698	21	5 31.5	19.8
69016 2002 UX_{32}	15.4	X	260.06961	1.39697	327.55226	4.17337	0.2035787	0.29510731	2.2343407	21	3 22.9	18.8
69017 2002 UK_{49}	14.4	X	285.68366	202.09976	87.58233	16.54007	0.1707501	0.23811844	2.5779472	21	3 19.2	18.5
69018 2002 VH_{24}	14.0	X	115.13130	36.96986	305.66832	7.54752	0.2252188	0.22137597	2.7063403	21	—	—
69019 2002 VA_{35}	14.6	X	337.34198	135.98331	244.18576	5.49822	0.1654739	0.25401965	2.4692090	21	10 18.2	16.8
69020 2002 VU_{51}	14.4	X	214.52761	176.74656	133.18966	6.21550	0.2437284	0.17987445	3.1080624	21	2 3.4	19.9
69021 2002 VR_{53}	14.4	X	273.93515	80.24103	188.63294	16.56553	0.0444622	0.17886051	3.1197975	21	2 20.3	19.1
69022 2002 VS_{62}	15.7	X	163.53061	255.60865	6.22927	2.29913	0.1764548	0.26746979	2.3857205	21	—	—
69023 2002 VY_{63}	16.6	X	191.67529	58.34289	16.24156	5.49442	0.1286754	0.29508827	2.2344368	21	6 7.6	19.9
69024 2002 VH_{70}	15.3	X	73.03357	337.87194	95.66443	4.82525	0.0677888	0.22646292	2.6656593	21	1 12.3	18.6
69025 2002 VS_{84}	15.0	X	211.46201	204.28978	178.95547	5.06114	0.3062777	0.23572364	2.5953780	21	4 22.2	19.8
69026 2002 VL_{93}	14.5	X	126.62267	229.01878	265.76256	6.71228	0.1387478	0.23845547	2.5755176	21	6 21.7	18.3
69027 2002 VW_{95}	16.4	X	180.82543	101.34863	1.22662	6.88319	0.1236195	0.29685073	2.2255839	21	7 6.6	19.7
69028 2002 VG_{109}	14.9	X	198.46375	54.21965	304.34942	3.13934	0.1733576	0.23239963	2.6200672	21	3 12.3	19.2
69029 2002 VT_{119}	15.0	X	108.75416	36.60680	53.12804	13.59110	0.1399333	0.22908190	2.6453037	21	4 8.6	18.7
69030 2002 WD_{9}	14.9	X	210.32512	272.83354	85.72543	15.79176	0.1467441	0.24017074	2.5632403	21	4 1.2	19.3
69031 2002 WX_{16}	15.6	X	312.89956	265.47630	153.68527	8.01150	0.2242041	0.25668499	2.4520862	21	10 26.0	17.5
69032 2002 WG_{17}	14.1	X	122.57200	265.13792	94.99573	29.88989	0.2090323	0.16948927	3.2337610	21	1 16.4	19.1
69033 2002 XA_{2}	16.6	X	43.63022	328.55040	147.08780	2.56424	0.1402336	0.27718809	2.3296267	21	1 8.3	18.4
69034 2002 XE_{15}	15.5	X	157.54109	354.88934	304.59405	10.92512	0.1954050	0.27623479	2.3349834	21	—	—
69035 2002 XR_{30}	14.5	X	67.94659	17.29030	4.93592	12.29082	0.0417360	0.21522303	2.7576780	21	—	—
69036 2002 XN_{31}	13.4	X	183.09394	14.83246	48.54666	11.96076	0.1280945	0.18530446	3.0470445	21	5 19.4	18.2
69037 2002 XD_{43}	15.4	X	12.90181	5.58610	86.55431	6.26488	0.0360864	0.21561984	2.7542936	21	—	—
69038 2002 XU_{44}	14.8	X	180.06545	259.41346	102.61298	15.34013	0.1531847	0.23291652	2.6161894	21	3 6.3	19.2
69039 2002 XG_{47}	15.8	X	190.68203	233.24959	148.83461	7.03195	0.1058656	0.28349428	2.2949498	21	3 31.1	19.1
69040 2002 XH_{47}	14.8	X	93.37009	0.83763	136.55747	14.93779	0.1906997	0.22786323	2.6547271	21	5 28.3	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69041 2002 XF_{49}	16.2	X	51.28832	151.00437	107.99548	0.95874	0.0923129	0.30021562	2.2089228	21	8 31.6	18.5
69042 2002 XY_{51}	15.8	X	285.63917	282.24555	252.99611	6.02077	0.0573821	0.26744246	2.3858830	21	—	—
69043 2002 XJ_{55}	16.7	X	247.70085	223.37590	173.99196	3.55007	0.1188981	0.29738181	2.2229334	21	6 20.9	19.6
69044 2002 XP_{57}	15.8	X	191.45266	270.09946	119.78788	3.30831	0.2355984	0.23287829	2.6164757	21	4 16.8	20.3
69045 2002 XN_{59}	14.1	X	210.62954	72.02885	294.41538	21.04075	0.3351638	0.28391529	2.2926804	21	3 16.5	18.9
69046 2002 XV_{61}	15.0	X	97.21327	123.59648	253.92087	4.76186	0.2027456	0.26926794	2.3750875	21	—	—
69047 2002 XM_{68}	14.8	X	152.32198	314.31243	115.54602	14.32710	0.1408664	0.23627394	2.5913466	21	5 2.2	19.0
69048 2002 XR_{70}	15.6	X	180.99683	240.13229	56.36807	3.10852	0.1249604	0.27181083	2.3602511	21	—	—
69049 2002 XP_{76}	15.2	X	137.43688	75.42120	80.67681	15.84553	0.0318639	0.24159780	2.5531367	21	7 24.7	18.8
69050 2002 XE_{78}	14.8	X	331.85744	5.80684	285.28144	10.93543	0.1458993	0.24304236	2.5430100	21	5 18.9	17.7
69051 2002 XT_{79}	14.2	X	255.21960	253.44809	86.75922	19.30158	0.0898755	0.18070827	3.0984943	21	5 2.2	19.1
69052 2002 XC_{82}	14.1	X	328.93657	100.50965	114.84317	15.08193	0.1571258	0.22633604	2.6666555	21	2 1.7	17.5
69053 2002 YJ_{3}	15.7	X	65.84071	136.32597	3.49287	4.33856	0.1906324	0.22591779	2.6699457	21	4 15.7	18.7
69054 2002 YP_{6}	14.3	X	204.20082	298.03757	101.52785	12.12242	0.1024077	0.18092260	3.0960467	21	5 15.8	19.3
69055 2002 YE_{7}	15.0	X	135.97916	64.15242	102.02407	6.16244	0.1309932	0.18421143	3.0590859	21	8 10.6	19.8
69056 2002 YE_{8}	15.4	X	324.29955	6.35376	123.96934	12.20279	0.1739013	0.26127906	2.4232579	21	—	—
69057 2002 YA_{13}	15.4	X	188.14335	12.11745	115.70462	7.55991	0.1504424	0.24483326	2.5305938	21	8 15.4	19.3
69058 2002 YV_{14}	16.1	X	93.01444	298.06556	108.66402	8.01435	0.1047060	0.27221672	2.3579044	21	—	—
69059 2002 YL_{18}	15.7	X	116.85609	89.63461	279.90497	3.16620	0.0625716	0.27289169	2.3540147	21	—	—
69060 2002 YO_{20}	15.3	X	141.25864	283.48484	183.07801	0.50336	0.1333775	0.18206516	3.0830801	21	6 2.1	20.1
69061 2002 YN_{28}	15.4	X	99.29745	50.59183	96.81246	7.91731	0.1738125	0.17833174	3.1259615	21	6 13.2	20.0
69062 2002 YF_{29}	15.2	X	253.17692	338.81809	296.14326	11.73384	0.1892333	0.27336980	2.3512692	21	1 13.6	19.0
69063 2002 YG_{32}	15.5	X	16.30058	194.40096	137.16948	13.41493	0.2895074	0.26016776	2.4301537	21	11 21.8	18.2
69064 2003 AZ_{7}	14.4	X	5.64708	307.04938	335.75367	24.12727	0.1970130	0.28328694	2.2960694	21	8 1.1	16.4
69065 2003 AY_{11}	14.6	X	96.93891	26.84409	153.22290	13.56091	0.0854809	0.18177548	3.0863548	21	7 9.1	19.2
69066 2003 AY_{28}	16.6	X	151.50567	107.40458	306.00699	0.97407	0.1999397	0.28267143	2.2994013	21	4 4.6	20.1
69067 2003 AJ_{30}	16.3	X	7.63189	309.03709	181.37741	0.98176	0.1373978	0.26899134	2.3767154	21	—	—
69068 2003 AO_{32}	15.1	X	110.49022	59.36186	319.07320	7.05820	0.1262788	0.27197727	2.3592881	21	—	—
69069 2003 AR_{37}	14.6	X	263.28221	261.52236	133.72357	14.23860	0.2313276	0.24486179	2.5303972	21	6 23.9	18.6
69070 2003 AQ_{38}	15.3	X	86.47354	130.57960	250.81340	5.64050	0.1206788	0.26710963	2.3878645	21	—	—
69071 2003 AR_{39}	15.2	X	85.81201	251.41435	226.98185	5.66722	0.1172047	0.17237532	3.1975646	21	4 12.1	19.6
69072 2003 AG_{41}	15.4	X	259.65214	271.90435	141.05369	22.21240	0.0614106	0.24156196	2.5533892	21	8 5.4	18.7
69073 2003 AB_{43}	15.5	X	180.39585	152.52340	301.32755	10.75678	0.2189225	0.23938707	2.5688313	21	6 24.6	20.0
69074 2003 AC_{43}	15.1	X	53.47082	305.32709	41.56289	6.65300	0.1337523	0.26021587	2.4298541	21	—	—
69075 2003 AZ_{52}	15.6	X	336.54553	297.55260	317.23094	10.91907	0.2164259	0.27954325	2.3165235	21	3 13.4	18.2
69076 2003 AC_{53}	15.7	X	189.75856	245.99289	96.53828	8.03216	0.1395231	0.27672248	2.3322392	21	2 9.4	19.2
69077 2003 AR_{53}	17.0	X	97.28112	121.25434	24.18342	3.71378	0.0991697	0.28474523	2.2882233	21	5 22.3	19.7
69078 2003 AO_{55}	16.1	X	162.52184	320.65075	89.72205	5.93212	0.1522801	0.28297760	2.2977424	21	4 11.3	19.5
69079 2003 AS_{60}	16.4	X	297.19484	188.39979	7.03547	2.27590	0.1465631	0.26718480	2.3874166	21	—	—
69080 2003 AA_{62}	14.4	X	236.29246	205.23679	131.58991	34.05555	0.1969450	0.22897996	2.6460887	21	3 26.8	19.3
69081 2003 AZ_{64}	14.1	X	106.27595	254.38527	66.84840	14.65495	0.2932753	0.26373092	2.4082155	21	—	—
69082 2003 AY_{75}	15.4	X	300.19266	350.28143	353.91744	8.47585	0.1740036	0.29678036	2.2259357	21	6 5.6	17.9
69083 2003 AX_{77}	13.9	X	77.74576	145.10531	345.92122	18.65228	0.1084121	0.17199250	3.2023076	21	4 9.0	18.5
69084 2003 BB	16.2	X	11.40609	248.85785	207.18547	1.73458	0.1680713	0.26471104	2.4022674	21	—	—
69085 2003 BE_{2}	16.3	X	147.25492	291.37933	134.52246	4.52239	0.1101621	0.28202225	2.3029286	21	4 10.3	19.4
69086 2003 BU_{6}	14.3	X	85.08624	55.07271	102.51184	11.54242	0.0573849	0.18326271	3.0696344	21	5 24.9	18.7
69087 2003 BQ_{11}	14.5	X	68.25803	112.38727	116.99520	8.89489	0.0154865	0.18376660	3.0640205	21	7 26.5	18.6
69088 2003 BS_{17}	14.6	X	20.96631	314.48690	309.00968	13.93537	0.1066589	0.23466137	2.6032047	21	7 16.5	17.4
69089 2003 BN_{18}	16.2	X	273.20082	268.01098	334.23312	0.66664	0.1457097	0.26778926	2.3838227	21	—	—
69090 2003 BH_{20}	15.6	X	34.60742	334.84034	87.58215	8.09147	0.0639971	0.26252777	2.4155677	21	—	—
69091 2003 BE_{25}	15.0	X	138.27768	296.51692	166.26917	16.51928	0.1958261	0.17681442	3.1438195	21	6 1.9	20.4
69092 2003 BQ_{25}	15.0	X	190.81291	265.15583	152.44705	13.72029	0.1498816	0.23848348	2.5753159	21	5 21.8	19.4
69093 2003 BM_{48}	14.8	X	36.53827	66.17319	120.87483	2.43403	0.1117009	0.17025256	3.2240884	21	4 29.8	18.7
69094 2003 BA_{49}	15.3	X	181.20279	23.61811	156.21164	5.77520	0.0574855	0.19265416	2.9690473	21	10 12.9	19.8
69095 2003 BE_{53}	16.1	X	74.85106	284.50278	148.17213	2.91966	0.1417695	0.27167068	2.3610628	21	1 7.8	18.1
69096 2003 BG_{54}	14.8	X	293.30240	295.87798	294.71035	11.85846	0.0626469	0.21762000	2.7373911	21	1 20.8	18.6
69097 2003 BR_{54}	15.3	X	227.47939	132.04704	150.55263	7.39224	0.0580086	0.21601648	2.7509210	21	1 11.1	19.4
69098 2003 BZ_{59}	16.3	X	245.75996	8.16515	53.90113	5.19690	0.0902043	0.29267196	2.2467184	21	7 30.1	19.1
69099 2003 BA_{63}	15.0	X	141.05378	91.32888	130.25271	13.70076	0.2529078	0.24043295	2.5613763	21	11 2.4	19.8
69100 2003 BM_{68}	15.0	X	94.89121	329.60339	167.72606	17.83468	0.0398068	0.22568909	2.6717491	21	5 7.3	18.9
69101 2003 BJ_{72}	14.9	X	148.39104	137.88540	341.84733	11.01336	0.1571113	0.18087960	3.0965373	21	6 27.8	20.0
69102 2003 BB_{73}	14.6	X	85.29496	66.07747	137.70933	10.52997	0.0703982	0.17957243	3.1115464	21	7 22.8	19.0
69103 2003 BG_{80}	14.1	X	52.79060	246.15569	357.66080	17.58631	0.1337196	0.17867919	3.1219078	21	8 16.8	18.4
69104 2003 BG_{84}	16.1	X	213.00236	32.21264	87.29691	5.81153	0.1213691	0.29451638	2.2373285	21	9 6.1	19.2
69105 2003 BR_{88}	14.1	X	64.53659	197.99167	68.45587	11.18720	0.0658076	0.18533651	3.0466933	21	9 21.0	18.5
69106 2003 CC_{3}	16.3	X	5.07038	85.41290	149.86315	6.64217	0.0670798	0.28161533	2.3051464	21	5 3.2	18.8
69107 2003 CG_{8}	14.7	X	14.57292	217.17593	119.42426	8.90771	0.2106260	0.24144599	2.5542067	21	11 7.2	17.5
69108 2003 CH_{8}	14.2	X	259.77448	215.21093	159.22695	22.52679	0.0969607	0.17642998	3.1483848	21	6 13.3	19.3
69109 2003 CM_{8}	16.9	X	12.32230	346.86791	155.44586	2.68904	0.1217120	0.26834380	2.3805374	21	—	—
69110 2003 CK_{10}	15.6	X	348.74795	189.12546	351.72955	24.46763	0.1607710	0.26887711	2.3773885	21	1 11.5	18.9
69111 2003 CE_{17}	16.1	X	48.31542	15.29705	88.67553	6.22259	0.0750718	0.26832984	2.3806199	21	1 3.8	18.6
69112 2003 DO_{4}	15.1	X	65.45504	130.25840	141.01828	14.82751	0.0971486	0.24339673	2.5405411	21	10 8.2	18.7
69113 2003 DG_{10}	15.6	X	300.76407	147.04510	129.37109	6.10767	0.1683747	0.27352892	2.3503573	21	3 7.8	18.6
69114 2003 DV_{17}	13.8	X	160.52911	308.58506	133.44208	22.71027	0.0706788	0.17320645	3.1873274	21	5 25.8	19.0
69115 2003 DD_{21}	15.7	X	119.09294	15.75745	139.09971	1.38324	0.1587621	0.17767168	3.1336987	21	7 11.5	20.6
69116 2003 EX_{1}	16.4	X	101.57378	293.36538	323.97208	5.30686	0.1392569	0.29736571	2.2230136	21	11 5.9	19.6
69117 2003 EX_{2}	15.6	X	132.40176	281.49666	93.46522	5.01506	0.3339709	0.27416878	2.3466990	21	2 13.6	19.1
69118 2003 EK_{16}	15.9	X	336.78344	264.04581	322.04422	5.28998	0.1598820	0.27045725	2.3681196	21	2 16.5	18.3
69119 2003 EA_{21}	14.1	X	41.05434	39.16977	172.98612	27.98779	0.1520381	0.17134486	3.2103718	21	6 14.6	18.7
69120 2003 ET_{23}	14.9	X	57.72329	200.28728	77.40940	3.35853	0.2400810	0.18359353	3.0659458	21	10 16.7	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69121 2003 EJ_{26}	15.9	X	271.45982	218.28409	73.03811	3.22045	0.2040471	0.27095464	2.3652206	21	2 19.6	19.5
69122 2003 EZ_{30}	14.8	X	207.56723	282.37026	159.76422	8.69317	0.0219249	0.17986936	3.1081211	21	7 11.4	19.4
69123 2003 EP_{39}	15.1	X	356.93705	203.59387	65.43104	14.20780	0.1223828	0.22758733	2.6568722	21	6 7.1	17.8
69124 2003 EQ_{39}	14.4	X	257.37227	26.80599	24.41419	24.50215	0.0667202	0.18327682	3.0694768	21	8 9.5	19.3
69125 2003 EK_{43}	16.2	X	264.11155	237.58744	75.02875	6.39419	0.2414443	0.26991405	2.3712957	21	3 10.4	20.1
69126 2003 EC_{60}	14.6	X	194.21673	337.30667	166.89464	18.90853	0.1099880	0.18560546	3.0437494	21	9 8.2	19.3
69127 2003 FK_{12}	14.3	X	314.45157	92.18941	211.46419	9.88568	0.0273616	0.17076709	3.2176090	21	5 31.8	18.8
69128 2003 FR_{16}	14.7	X	160.90682	36.09618	141.94069	16.52308	0.1301273	0.18541312	3.0458540	21	9 20.1	19.7
69129 2003 FG_{21}	15.0	X	255.99335	221.41640	61.93824	8.24517	0.1001599	0.21012624	2.8020928	21	2 13.6	19.3
69130 2003 FC_{39}	15.5	X	273.61388	244.65607	48.28970	9.54599	0.2266558	0.26939307	2.3743520	21	2 25.2	19.4
69131 2003 FP_{47}	16.1	X	271.25503	63.43772	215.44571	2.76516	0.1196684	0.26734877	2.3864404	21	2 9.2	19.5
69132 2003 FG_{49}	15.7	X	22.32718	127.93017	141.33965	4.81109	0.2603485	0.22478521	2.6789065	21	8 14.5	17.7
69133 2003 FK_{54}	13.9	X	345.30867	117.19394	148.09404	18.92704	0.1009378	0.16951303	3.2334587	21	5 23.7	18.4
69134 2003 FJ_{70}	14.6	X	68.55329	216.15205	43.88836	8.12905	0.1038856	0.18167213	3.0875252	21	9 20.6	19.0
69135 2003 FP_{74}	15.4	X	209.77045	156.97452	105.57354	7.34346	0.1299909	0.25516982	2.4617834	21	—	—
69136 2003 FE_{85}	14.3	X	222.24058	147.06014	321.19145	11.07140	0.1625071	0.18543065	3.0456620	21	8 18.8	19.1
69137 2003 FS_{87}	16.0	X	29.10776	319.36428	291.17065	6.30339	0.0859942	0.28140122	2.3063156	21	7 8.4	18.1
69138 2003 FY_{90}	14.0	X	67.02568	226.83466	333.34069	14.27919	0.1293597	0.17250475	3.1959650	21	7 5.9	18.5
69139 2003 FH_{91}	15.2	X	239.47421	198.91889	209.27700	21.30783	0.0283701	0.23004967	2.6378796	21	7 3.7	19.3
69140 2003 FB_{100}	14.8	X	231.67727	100.07519	36.35447	10.67269	0.0590568	0.19062777	2.9900511	21	10 16.3	19.0
69141 2003 FT_{112}	14.6	X	16.47235	39.47949	159.31920	9.67759	0.1272340	0.21525885	2.7573721	21	4 7.2	17.6
69142 2003 FL_{115}	15.6	X	200.83960	15.87776	171.05062	22.80764	0.0520060	0.35816217	1.9637351	21	12 13.4	18.4
69143 2003 FN_{115}	14.2	X	17.05395	134.74175	203.05185	12.81834	0.1884141	0.24144359	2.5542237	21	11 6.9	16.9
69144 2003 FU_{115}	15.7	X	264.09521	258.14623	325.57737	2.81927	0.1231459	0.25776325	2.4452432	21	—	—
69145 2003 FF_{119}	15.0	X	145.55268	215.15226	28.72099	11.62613	0.0469687	0.19058311	2.9905181	21	11 16.5	19.5
69146 2003 FV_{121}	15.5	X	303.60610	150.32590	42.13750	7.00221	0.0732927	0.25938239	2.4350566	21	—	—
69147 2003 GR_{1}	14.6	X	230.33732	225.44323	153.43869	9.29813	0.0650622	0.27612457	2.3356047	21	5 13.8	17.9
69148 2003 GH_{8}	14.9	X	275.85331	57.22555	18.08630	9.20462	0.1038088	0.18700144	3.0285826	21	9 18.6	19.0
69149 2003 GQ_{12}	14.8	X	135.53063	211.80165	179.48586	9.24371	0.2855824	0.21657647	2.7461771	21	3 7.5	19.2
69150 2003 GZ_{15}	15.2	X	268.59694	91.55958	27.20078	8.08011	0.0294598	0.19135414	2.9824795	21	11 10.2	19.4
69151 2003 GZ_{41}	14.9	X	35.29965	193.36632	80.26127	13.21353	0.2131575	0.23242443	2.6198808	21	9 17.5	18.1
69152 2003 GL_{50}	15.1	X	286.55465	161.75024	105.14022	14.06652	0.1181346	0.21502234	2.7593936	21	2 24.6	19.2
69153 2003 HJ_{22}	16.0	X	240.95689	91.74389	151.40714	6.62445	0.0999259	0.25584079	2.4574774	21	—	—
69154 2003 HZ_{50}	14.5	X	109.44032	92.55056	189.99229	8.20410	0.1810397	0.18382217	3.0634030	21	12 4.9	19.5
69155 2003 HL_{52}	14.6	X	18.77833	40.32877	206.48164	18.63043	0.0719755	0.16826569	3.2494186	21	6 15.2	19.1
69156 2003 JH_{1}	14.9	X	53.59144	214.32935	170.78781	9.13298	0.2243531	0.25290251	2.4764751	21	—	—
69157 2003 JZ_{3}	14.7	X	256.66411	254.58239	355.16293	14.48767	0.1141430	0.20503177	2.8483189	21	1 4.1	19.4
69158 2003 JR_{13}	15.2	X	83.55192	50.89664	187.67487	12.90895	0.1448224	0.17687531	3.1430978	21	9 11.9	19.9
69159 Ivanking	15.6	X	62.54797	155.09083	103.18298	14.55132	0.2276371	0.22891555	2.6465850	21	10 7.8	19.6
69160 2029 *P–L*	15.8	X	341.42094	95.08349	291.65170	1.19710	0.2166821	0.27540808	2.3396538	21	11 18.9	17.3
69161 2203 *P–L*	15.8	X	306.06341	310.15163	209.50640	6.13832	0.0449556	0.28001680	2.3139110	21	—	—
69162 2736 *P–L*	15.7	X	39.10647	148.44856	176.88247	4.34672	0.0679742	0.21096198	2.7946875	21	10 30.9	19.4
69163 2744 *P–L*	15.4	X	255.28588	125.51434	180.72553	20.18848	0.0729196	0.18747426	3.0234883	21	3 13.9	19.9
69164 3031 *P–L*	14.3	X	31.09204	103.29126	305.50276	11.38014	0.1488436	0.18086148	3.0967442	21	—	—
69165 3044 *P–L*	16.0	X	84.83664	79.13542	296.49459	7.80407	0.1146841	0.29599994	2.2298465	21	—	—
69166 3075 *P–L*	15.2	X	76.36004	59.46427	310.06709	7.73073	0.2456061	0.18111359	3.0938697	21	—	—
69167 3082 *P–L*	14.4	X	29.29826	72.66469	309.71103	8.61789	0.0544585	0.22903899	2.6456340	21	12 31.1	18.0
69168 3515 *P–L*	14.5	X	23.92547	146.61871	279.04570	10.19456	0.1945157	0.18097924	3.0954006	21	—	—
69169 4066 *P–L*	16.3	X	59.77191	47.28873	359.09071	4.32924	0.1756775	0.29588069	2.2304456	21	—	—
69170 4199 *P–L*	16.3	X	64.16573	84.67697	350.51045	6.38156	0.1035602	0.26505302	2.4002006	21	—	—
69171 4230 *P–L*	15.7	X	71.62555	97.70068	198.85312	12.27024	0.2631369	0.22864121	2.6487016	21	12 1.1	20.0
69172 4283 *P–L*	15.2	X	329.67652	181.72206	197.70532	15.89630	0.1507880	0.17723575	3.1388350	21	9 17.3	18.9
69173 4304 *P–L*	16.2	X	343.10668	77.11803	247.81167	2.58394	0.1934721	0.25737882	2.4476774	21	8 2.1	18.1
69174 4514 *P–L*	15.5	X	142.62498	281.00609	143.79823	2.68635	0.0526652	0.20363074	2.8613687	21	4 4.2	19.6
69175 4550 *P–L*	16.5	X	61.38478	53.71541	12.27645	4.12955	0.1529836	0.29672168	2.2262291	21	—	—
69176 4602 *P–L*	14.1	X	64.19286	254.01581	150.00141	0.93572	0.1779135	0.18222786	3.0812448	21	—	—
69177 4618 *P–L*	16.1	X	283.87816	244.12997	170.94347	2.04918	0.2050420	0.27368578	2.3494591	21	8 21.9	18.7
69178 4729 *P–L*	16.5	X	2.92821	131.56122	157.37373	2.95665	0.1672273	0.27332177	2.3515447	21	7 22.4	18.3
69179 4756 *P–L*	15.6	X	1.12888	64.63698	175.91642	5.80385	0.2082463	0.27112801	2.3642122	21	4 23.3	17.2
69180 4770 *P–L*	14.5	X	159.98025	250.89284	17.65036	9.29244	0.1000743	0.18211921	3.0824701	21	12 31.3	19.5
69181 4821 *P–L*	15.8	X	353.93401	246.95742	139.51074	3.30347	0.1120325	0.22763200	2.6565246	21	11 21.7	18.9
69182 4850 *P–L*	15.2	X	152.18742	232.17988	185.79634	13.36654	0.1594344	0.23574881	2.5951933	21	4 13.6	19.2
69183 6638 *P–L*	15.7	X	352.73715	267.52980	39.95726	3.77002	0.2106569	0.22517715	2.6757970	21	7 28.5	17.9
69184 6705 *P–L*	15.5	X	235.97324	76.21967	22.67896	7.20440	0.1645931	0.27341099	2.3510331	21	8 29.3	18.8
69185 6739 *P–L*	16.4	X	205.98460	158.43120	171.69076	6.44374	0.1282421	0.28387535	2.2928955	21	2 5.1	19.7
69186 6783 *P–L*	15.4	X	85.71185	357.89957	24.05613	5.43741	0.1645392	0.21525080	2.7574408	21	—	—
69187 1178 *T–1*	14.7	X	353.40457	73.63489	345.74919	5.40669	0.1895776	0.22923397	2.6441337	21	—	—
69188 1258 *T–1*	16.0	X	114.84648	35.43974	193.01189	6.20206	0.2342954	0.28235974	2.3010931	21	10 19.7	19.7
69189 1263 *T–1*	15.0	X	180.12861	64.87068	1.59226	10.35926	0.2236987	0.25985284	2.4321166	21	5 16.5	19.2
69190 2027 *T–1*	13.8	X	155.01295	316.00795	359.03063	15.15506	0.1725756	0.17035534	3.2227915	21	—	—
69191 2143 *T–1*	16.0	X	85.18243	159.50872	51.23116	3.02572	0.1556414	0.26052130	2.4279546	21	8 18.8	19.2
69192 3172 *T–1*	14.4	X	63.90096	53.64874	355.72661	13.03552	0.2060995	0.23205518	2.6226593	21	—	—
69193 3326 *T–1*	16.3	X	182.42991	290.46986	186.37267	5.01929	0.0815638	0.30045969	2.2077264	21	7 26.5	19.2
69194 1118 *T–2*	15.3	X	28.08382	128.35800	248.02123	1.21999	0.1155097	0.22927292	2.6438342	21	12 29.9	18.7
69195 1164 *T–2*	16.1	X	41.07657	348.85486	6.22324	2.03333	0.2031502	0.22912531	2.6449695	21	—	—
69196 1216 *T–2*	16.7	X	74.14441	122.76072	180.06274	7.70462	0.1460002	0.29052443	2.2577765	21	12 8.5	19.9
69197 1238 *T–2*	14.6	X	38.87392	193.77275	272.23162	0.24208	0.1683535	0.17286396	3.1915360	21	1 20.8	18.1
69198 1255 *T–2*	16.5	X	204.62711	39.29018	266.46191	1.49428	0.1952143	0.25704149	2.4498184	21	1 12.1	20.5
69199 1278 *T–2*	14.6	X	74.51095	235.04344	181.62529	10.55681	0.1055544	0.19243159	2.9713363	21	1 4.3	18.6
69200 1300 *T–2*	16.8	X	46.59341	339.37217	347.98986	2.46939	0.1863345	0.26948502	2.3738119	21	12 9.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69201 1323 *T–2*	16.0	*X*	272.13125	144.97504	174.39364	7.12618	0.1240808	0.26128741	2.4232064	21	4 6.5	19.2
69202 2026 *T–2*	15.9	*X*	240.95890	243.65522	202.28270	6.04673	0.1116253	0.28568664	2.2831937	21	8 19.6	18.9
69203 2088 *T–2*	16.0	*X*	39.00929	223.70136	208.64836	4.19704	0.1309377	0.29409788	2.2394504	21	—	—
69204 2139 *T–2*	16.4	*X*	116.52937	276.24627	168.12475	3.27338	0.1259218	0.27870841	2.3211471	21	3 29.1	19.1
69205 2156 *T–2*	15.6	*X*	163.36155	248.85590	180.12393	7.72073	0.1466582	0.25997603	2.4313483	21	5 6.6	19.3
69206 2167 *T–2*	16.4	*X*	122.47408	101.01733	191.89824	5.56691	0.1971966	0.29288305	2.2456387	21	—	—
69207 3004 *T–2*	16.1	*X*	195.00360	275.82835	137.53568	1.75130	0.1894837	0.26116384	2.4239706	21	5 16.1	19.9
69208 3078 *T–2*	15.3	*X*	312.51096	285.01148	8.18505	11.98406	0.1182229	0.22108008	2.7087545	21	4 24.8	18.9
69209 3300 *T–2*	15.3	*X*	224.08388	218.40647	38.37824	7.48288	0.0755974	0.27540249	2.3396855	21	—	—
69210 3356 *T–2*	14.6	*X*	23.54648	83.50344	13.22387	4.69885	0.3081480	0.23185653	2.6241571	21	—	—
69211 4098 *T–2*	16.4	*X*	79.16460	281.57751	122.84627	3.09964	0.1993515	0.29488505	2.2354633	21	—	—
69212 4287 *T–2*	16.6	*X*	95.14556	210.29090	153.05178	5.58361	0.1995899	0.27353036	2.3503490	21	—	—
69213 4616 *T–2*	14.7	*X*	47.26642	200.33960	171.31278	10.19519	0.0066015	0.18883250	3.0089726	21	12 24.1	19.1
69214 5067 *T–2*	14.3	*X*	229.06369	317.93515	317.78846	13.06034	0.0737467	0.17294576	3.1905295	21	1 14.3	19.2
69215 5099 *T–2*	15.4	*X*	118.49883	174.02362	282.57222	7.12917	0.1379941	0.23795747	2.5791097	21	4 19.5	19.1
69216 1108 *T–3*	14.1	*X*	70.06693	69.36974	257.59591	10.22081	0.1548774	0.18243108	3.0789562	21	12 15.6	18.6
69217 2135 *T–3*	14.7	*X*	70.79426	178.54204	219.04729	6.99526	0.0608545	0.18573202	3.0423664	21	—	—
69218 2330 *T–3*	15.5	*X*	315.71593	53.20287	248.58590	1.45633	0.2135019	0.26449183	2.4035945	21	4 24.5	18.3
69219 2364 *T–3*	15.2	*X*	315.34234	252.34360	1.32299	8.60295	0.1121373	0.21526677	2.7573044	21	3 13.4	18.8
69220 3030 *T–3*	15.0	*X*	110.86177	305.05854	22.80612	1.45176	0.1803657	0.18470308	3.0536550	21	—	—
69221 3528 *T–3*	15.7	*X*	355.51247	139.48497	209.00013	4.52027	0.0629413	0.22335335	2.6903435	21	9 27.2	18.9
69222 4210 *T–3*	13.7	*X*	161.11961	251.06456	171.69927	11.61820	0.1279596	0.14717803	3.5528270	21	5 3.4	19.4
69223 4331 *T–3*	16.0	*X*	205.39558	290.26678	132.18218	3.03471	0.1541194	0.26289841	2.4132968	21	6 6.9	19.6
69224 4388 *T–3*	15.3	*X*	350.29479	204.45048	139.85034	6.18171	0.1490441	0.22300635	2.6931336	21	9 18.3	18.0
69225 5043 *T–3*	14.6	*X*	75.79828	124.00152	175.21522	17.06803	0.1123459	0.18120849	3.0927894	21	11 16.6	19.3
69226 5129 *T–3*	15.7	*X*	129.36277	259.36784	119.40902	6.95416	0.2304076	0.27846466	2.3225014	21	1 31.3	18.6
69227 5139 *T–3*	15.3	*X*	76.70440	313.29059	154.57341	11.13419	0.1457557	0.23449369	2.6044455	21	3 14.3	18.3
69228 Kamerunberg	16.5	*X*	180.70032	290.06232	184.70025	22.06300	0.0695546	0.37718220	1.8971511	21	7 20.9	19.3
69229 5188 *T–3*	14.5	*X*	319.87455	225.88620	166.08769	17.01685	0.2117516	0.17739630	3.1369409	21	9 12.9	18.0
69230 Hermes	17.5	*X*	83.95349	92.84341	34.12523	6.06664	0.6245179	0.46303210	1.6547357	21	6 21.9	19.5
69231 Alettajacobs	15.2	*X*	141.16074	55.03923	170.33170	31.66573	0.2627741	0.22936888	2.6430967	21	11 4.7	20.4
69232 1978 UJ_4	16.2	*X*	345.34883	127.27625	236.51377	4.65732	0.2419111	0.27531014	2.3402087	21	10 22.3	17.6
69233 1978 UL_6	16.3	*X*	352.23554	147.68402	239.20777	1.74049	0.1688169	0.27667510	2.3325055	21	12 7.9	18.3
69234 1978 VO_2	14.0	*X*	349.27295	213.59097	243.90228	7.01155	0.1016153	0.23279563	2.6170951	21	—	—
69235 1978 VS_3	16.1	*X*	238.04704	220.53838	237.31669	5.22811	0.1697854	0.27083155	2.3659372	21	8 23.6	19.6
69236 1978 VF_5	15.3	*X*	205.08966	66.67961	66.89243	7.37246	0.0730981	0.27117640	2.3639310	21	9 20.2	18.6
69237 1978 VR_6	15.7	*X*	334.42494	288.50994	53.82273	6.65268	0.1767592	0.27165712	2.3611413	21	8 18.1	17.6
69238 1978 VZ_8	15.3	*X*	39.41552	355.22849	58.94861	3.80006	0.1249712	0.23315953	2.6143713	21	—	—
69239 1978 XT	15.7	*X*	124.54344	147.08873	236.90025	4.22063	0.3764939	0.23828551	2.5767421	21	2 23.0	19.9
69240 1979 MZ_1	15.1	*X*	331.81523	210.20831	136.51780	5.76960	0.0792027	0.21223889	2.7834670	21	8 17.9	18.3
69241 1979 MX_3	16.6	*X*	131.31149	92.83685	249.69201	3.06038	0.2190489	0.29226505	2.2488032	21	—	—
69242 1979 MA_7	15.0	*X*	21.38403	52.80727	239.38254	3.37910	0.0329438	0.21226311	2.7832552	21	8 16.3	18.6
69243 1979 MU_7	16.4	*X*	141.36182	67.06564	245.80292	4.51313	0.2353948	0.29158586	2.2522940	21	—	—
69244 1979 MP_8	15.3	*X*	10.15162	315.71623	279.25025	3.87656	0.1370449	0.25596475	2.4566839	21	5 8.9	17.5
69245 Persiceto	14.4	*X*	273.16315	244.23411	353.01307	15.92719	0.1734109	0.24179343	2.5517594	21	—	—
69246 1981 EZ_4	15.4	*X*	231.12641	295.50538	313.08502	9.40087	0.0619109	0.24005716	2.5640487	21	—	—
69247 1981 ED_{10}	16.4	*X*	232.47276	232.05693	318.28826	2.30972	0.1748549	0.28565195	2.2833786	21	12 23.7	19.0
69248 1981 EA_{19}	14.7	*X*	134.45909	45.93127	7.21638	2.59243	0.1600763	0.24668971	2.5178819	21	3 17.8	18.1
69249 1981 EH_{27}	14.4	*X*	321.99038	165.20078	358.00959	13.83641	0.0998950	0.24088630	2.5581616	21	—	—
69250 1981 EK_{32}	16.3	*X*	96.73648	50.06890	243.33359	5.64840	0.0323698	0.28345368	2.2951689	21	12 9.2	19.2
69251 1981 ER_{33}	16.7	*X*	206.72265	356.96746	205.35595	5.03068	0.1026062	0.28465435	2.2887103	21	12 17.4	19.7
69252 1981 EC_{35}	15.7	*X*	147.74828	117.96681	158.27950	5.66700	0.1561400	0.28479151	2.2879754	21	—	—
69253 1981 EX_{35}	16.2	*X*	176.26984	8.16943	242.49988	6.67446	0.0912451	0.28522413	2.2856613	21	—	—
69254 1981 EW_{37}	15.7	*X*	203.91442	318.51219	303.82717	4.34791	0.0656827	0.23917232	2.5703688	21	—	—
69255 1981 ER_{40}	16.0	*X*	186.42332	211.96807	312.16959	1.36825	0.1188381	0.25660542	2.4525931	21	9 29.8	19.7
69256 1981 EF_{46}	16.3	*X*	127.19436	306.07722	321.16600	4.09155	0.1414785	0.28296863	2.2977910	21	12 13.9	19.7
69257 1981 ER_{47}	14.4	*X*	189.61614	344.96305	36.11157	2.47404	0.1754000	0.24720654	2.5143713	21	4 1.5	18.4
69258 1981 UJ_{22}	15.0	*X*	13.14849	332.18247	75.04542	5.39242	0.2502520	0.17393160	3.1784623	21	—	—
69259 Savostyanov	14.6	*X*	128.96677	59.47942	331.44316	3.96439	0.2896647	0.23913653	2.5706253	21	2 27.6	18.4
69260 Tonyjudt	15.0	*X*	103.84216	274.80577	99.39267	2.17824	0.3842110	0.23571346	2.5954527	21	1 25.1	18.4
69261 Philaret	14.1	*X*	270.85330	52.74073	73.92612	11.80151	0.2631730	0.22558465	2.6725737	21	10 30.8	17.5
69262 1986 PV_6	14.9	*X*	147.07583	46.26520	314.65176	4.62417	0.1724761	0.29546913	2.2325163	21	1 17.5	17.6
69263 Big Ben	15.5	*X*	323.15212	227.12665	233.67240	1.98869	0.1826677	0.28219178	2.3020061	21	—	—
69264 Nebra	15.9	*X*	329.94365	192.78029	130.50601	2.76519	0.2128611	0.26639252	2.3921479	21	6 25.8	17.6
69265 1988 RF_6	16.0	*X*	323.89081	246.14129	116.71567	2.33479	0.2002469	0.26828834	2.3808654	21	8 21.3	17.8
69266 1988 RJ_6	15.3	*X*	303.95796	70.45656	326.14418	4.18902	0.2397603	0.26813513	2.3817723	21	8 23.9	17.5
69267 1988 RO_6	14.3	*X*	343.74976	32.52844	349.81593	6.20185	0.1340918	0.27204550	2.3588936	21	11 6.1	16.5
69268 1988 SD_2	15.7	*X*	29.89312	245.10876	38.00263	9.80374	0.2143681	0.26915565	2.3757481	21	9 23.4	18.1
69269 1988 VA_1	15.8	*X*	275.84291	126.04350	266.54916	10.17629	0.2691518	0.26428745	2.4048336	21	6 28.1	19.0
69270 1989 BB	13.5	*X*	238.68202	169.83563	321.95002	9.39278	0.1536110	0.26385147	2.4074820	21	10 8.5	16.9
69271 1989 GK_2	14.8	*X*	186.57074	244.90330	8.44397	5.58288	0.0633743	0.23361350	2.6109833	21	—	—
69272 1989 SC_2	15.7	*X*	343.60186	337.35001	27.35275	12.53317	0.1959698	0.27738025	2.3285507	21	10 17.6	17.1
69273 1989 TN_1	14.5	*X*	328.52112	57.42088	341.70692	11.12154	0.2331710	0.21625844	2.7488687	21	10 12.7	17.1
69274 1989 UZ_1	15.4	*X*	99.92894	122.43440	237.22974	9.06211	0.3201309	0.28663977	2.2781295	21	—	—
69275 Wiesenthal	14.7	*X*	302.08190	282.04088	89.53598	8.73199	0.2369170	0.21031582	2.8004087	21	7 11.5	18.1
69276 1989 YH_8	15.5	*X*	255.96924	323.06840	125.49113	9.10892	0.2394265	0.27120065	2.3637900	21	8 27.1	18.6
69277 1990 EC_1	15.3	*X*	41.57198	8.54351	204.48129	9.88599	0.1156619	0.25855539	2.4402463	21	6 6.9	17.9
69278 1990 EK_2	15.1	*X*	46.71341	233.91279	265.58211	5.43027	0.1578576	0.25374601	2.4709838	21	2 25.1	17.4
69279 1990 ES_2	15.6	*X*	89.82327	221.96788	293.10170	4.92390	0.1582734	0.25848567	2.4406850	21	6 6.1	18.6
69280 1990 RB_7	14.9	*X*	118.15839	213.34406	151.68803	5.01442	0.1674631	0.23553388	2.5967718	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69281 1990 SG_6	15.4	X	83.53451	357.41931	43.35862	5.38517	0.1703195	0.23394928	2.6084844	21	—	—
69282 1990 SV_6	13.9	X	84.59410	27.23776	16.68794	14.97230	0.1134278	0.23445001	2.6047690	21	—	—
69283 1990 ST_7	14.8	X	58.82115	351.99452	58.80054	3.97623	0.1699444	0.23274417	2.6174808	21	—	—
69284 1990 SB_9	16.2	X	221.70949	274.51772	93.00570	3.42867	0.1697785	0.30842206	2.1695638	21	4 9.7	19.4
69285 1990 ST_{14}	14.8	X	12.72558	343.20621	50.49678	6.80292	0.2349797	0.22641000	2.6660747	21	—	—
69286 von Liebig	15.6	X	23.19924	203.70471	212.23222	11.24633	0.2066519	0.22870302	2.6482244	21	—	—
69287 Günthereichhorn	16.7	X	113.73203	63.96338	349.66610	5.07770	0.1336564	0.30095432	2.2053067	21	2 7.9	18.9
69288 Berlioz	15.3	X	76.30643	67.16615	345.15984	2.42649	0.2423812	0.23349909	2.6118361	21	1 8.4	17.6
69289 1990 UU_2	16.5	X	225.50154	42.70148	247.33045	2.38848	0.1693472	0.30161126	2.2021033	21	1 3.4	19.9
69290 1990 UQ_4	16.0	X	108.90117	261.28807	125.99193	3.59367	0.1716139	0.29813046	2.2192104	21	—	—
69291 1990 WG_1	14.1	X	317.59979	6.35039	68.85989	22.87284	0.0383863	0.22326726	2.6910350	21	11 27.5	17.5
69292 1990 WH_2	13.9	X	176.42509	196.46601	87.03382	14.61623	0.1457227	0.23045252	2.6348046	21	—	—
69293 1991 GW_{10}	14.8	X	308.62479	185.34221	14.86208	10.94852	0.1125347	0.19061493	2.9901853	21	1 2.3	19.2
69294 1991 PU_9	13.2	X	138.42010	112.52964	146.77966	25.96583	0.3081238	0.17568121	3.1573242	21	12 8.0	19.4
69295 Stecklum	14.1	X	27.29249	46.45479	355.33291	14.07569	0.1948134	0.17028052	3.2237355	21	—	—
69296 1992 BM_4	15.4	X	325.58372	76.04824	29.70950	2.83976	0.0584599	0.22978452	2.6399085	21	—	—
69297 1992 DT_8	14.7	X	36.54883	269.28552	329.26501	13.69155	0.1400339	0.21088455	2.7953716	21	7 12.8	18.1
69298 1992 DR_9	16.2	X	315.14163	318.67542	246.24705	1.98127	0.1070897	0.26797556	2.3827177	21	—	—
69299 1992 EW_6	15.2	X	27.65754	272.44808	139.19551	11.96418	0.1927288	0.22938326	2.6429862	21	—	—
69300 1992 EH_7	15.3	X	159.37823	41.38881	113.70674	5.76404	0.0615751	0.21537311	2.7563968	21	8 19.6	19.3
69301 1992 ES_8	14.7	X	9.21369	220.83782	61.02863	5.76041	0.1070390	0.17962258	3.1109672	21	7 20.4	18.5
69302 1992 EZ_{10}	13.4	X	262.58558	353.91918	165.15015	3.84583	0.1325019	0.12479413	3.9658834	21	11 27.6	19.0
69303 1992 EM_{13}	14.8	X	97.68016	210.93015	333.95955	10.33098	0.1255944	0.21220448	2.7837678	21	7 25.1	18.8
69304 1992 EA_{14}	15.9	X	137.30518	126.45299	307.03766	3.15753	0.0896646	0.30787055	2.1721540	21	3 29.9	18.5
69305 1992 EJ_{14}	15.1	X	325.39030	13.91540	301.12923	3.02482	0.0563122	0.24582483	2.5237842	21	6 25.8	17.9
69306 1992 EN_{29}	15.4	X	113.06618	279.82739	253.25817	3.95049	0.0907029	0.21294266	2.7773308	21	7 20.4	19.4
69307 1992 ON	16.2	X	303.67105	288.74515	341.68129	25.82661	0.2028949	0.36626797	1.9346545	21	2 16.6	18.7
69308 1992 PK_1	15.2	X	87.52660	66.44405	314.03334	6.73735	0.1462518	0.28557310	2.2837989	21	—	—
69309 1992 PL_1	16.2	X	24.19465	187.20358	185.34748	1.19458	0.2423061	0.27837863	2.3229799	21	—	—
69310 1992 PQ_1	15.8	X	111.23872	335.63264	307.45125	4.84890	0.1592014	0.28096366	2.3087095	21	12 19.0	19.4
69311 Russ	15.3	X	321.36163	305.24977	29.41734	22.65837	0.3340583	0.26957247	2.3732984	21	5 23.8	18.0
69312 Rogerbacon	15.3	X	91.02930	303.29294	1.34038	7.19349	0.1225750	0.27836717	2.3230436	21	12 23.8	18.7
69313 1992 SW_{18}	16.3	X	314.39293	137.19220	187.38681	7.26015	0.1426478	0.26801698	2.3824722	21	6 8.9	18.9
69314 1992 SW_{21}	15.8	X	76.95400	265.17808	11.78467	6.98691	0.1122571	0.27515879	2.3410667	21	10 29.9	19.0
69315 1992 UR_2	14.0	X	349.38930	49.80201	46.53138	23.19203	0.2457786	0.27846221	2.3225150	21	—	—
69316 1993 FP_8	15.4	X	357.40124	145.01667	36.39336	5.87688	0.0932675	0.24348755	2.5399093	21	2 5.9	18.4
69317 1993 FB_{20}	15.0	X	34.94792	19.79813	52.60949	8.63190	0.1585644	0.23763416	2.5814485	21	—	—
69318 1993 FQ_{20}	14.7	X	70.49900	317.70946	134.43485	4.21567	0.1899743	0.24354840	2.5394862	21	2 12.5	17.1
69319 1993 FA_{29}	14.8	X	246.80011	238.22459	353.59428	12.47084	0.1365282	0.23624087	2.5915884	21	—	—
69320 1993 FJ_{30}	14.7	X	111.60203	31.62841	195.12150	16.26052	0.2540449	0.22228326	2.6989709	21	10 10.8	19.3
69321 1993 FH_{34}	15.1	X	7.20567	52.12818	39.72580	5.88578	0.0247387	0.23525559	2.5988193	21	—	—
69322 1993 FX_{41}	15.2	X	40.66436	90.04219	185.79398	13.25660	0.2030204	0.21927022	2.7236394	21	9 16.9	18.4
69323 1993 FZ_{41}	14.1	X	309.71225	129.16738	6.62490	13.95980	0.1097468	0.23504061	2.6004037	21	—	—
69324 1993 FY_{46}	16.0	X	113.18644	257.01935	23.39414	1.64636	0.2036308	0.22746535	2.6578220	21	12 11.6	20.5
69325 1993 FP_{48}	15.4	X	179.40352	25.64043	243.73341	0.92298	0.0833773	0.23388726	2.6089455	21	—	—
69326 1993 FU_{49}	14.9	X	29.66635	210.19229	237.09513	1.57479	0.0675375	0.23819800	2.5773732	21	—	—
69327 1993 FJ_{60}	15.9	X	182.70667	47.36133	191.09079	2.39521	0.1019581	0.23106997	2.6301087	21	12 25.9	19.8
69328 1993 FY_{80}	15.6	X	120.04820	235.47657	123.53694	1.69696	0.0767717	0.23761043	2.5816204	21	—	—
69329 1993 GH_1	14.7	X	215.82257	137.36068	39.67570	15.86426	0.1197469	0.22849966	2.6497954	21	11 12.1	18.5
69330 1993 HO_2	15.6	X	354.12872	108.70846	67.70646	4.40940	0.1278572	0.24218069	2.5490384	21	1 19.1	18.4
69331 1993 LE_1	14.8	X	316.31077	144.49735	345.70314	13.07880	0.1024400	0.23261529	2.6184476	21	—	—
69332 1993 LJ_1	14.4	X	186.60929	210.55114	321.07731	12.73556	0.1906378	0.22466731	2.6798436	21	9 27.9	19.1
69333 1993 OU_8	14.7	X	269.22866	318.07163	123.13269	6.96175	0.0880990	0.21611306	2.7501014	21	9 23.2	18.4
69334 1993 PT_1	17.3	X	24.34061	52.93623	151.50259	2.82020	0.1382263	0.27453942	2.3445864	21	4 20.1	19.2
69335 1993 RT_6	15.3	X	207.71163	133.14235	249.63058	1.10339	0.0841857	0.19957999	2.8999559	21	4 24.1	19.8
69336 1993 SJ	16.8	X	104.19865	325.17073	2.77348	7.08629	0.1702692	0.29072017	2.2567629	21	—	—
69337 1993 SQ_5	15.8	X	85.32077	162.61555	357.47056	3.41073	0.0196120	0.30748699	2.1739600	21	5 10.3	18.1
69338 1993 TM_6	15.7	X	163.77541	224.86514	347.15746	3.37098	0.1303025	0.28359915	2.2943840	21	11 9.0	19.2
69339 1993 TF_{11}	16.2	X	24.15897	186.87337	233.35830	3.30804	0.1495618	0.28930063	2.2641392	21	—	—
69340 1993 TA_{15}	15.9	X	123.39738	75.90042	30.72266	5.05332	0.1163367	0.30415117	2.1898266	21	5 3.5	18.6
69341 1993 TD_{18}	15.1	X	177.54989	12.99778	29.14629	8.51426	0.0969681	0.19742109	2.9210592	21	4 17.5	19.4
69342 1993 TT_{19}	14.7	X	352.50175	79.52535	51.38566	2.61977	0.0289714	0.18770364	3.0210245	21	—	—
69343 1993 TO_{29}	16.4	X	80.63708	203.87309	183.49880	6.28133	0.1158690	0.29265702	2.2467948	21	—	—
69344 1993 TH_{30}	15.9	X	34.88765	52.75257	54.96237	7.49286	0.0554507	0.29560374	2.2318385	21	—	—
69345 1993 TE_{31}	16.7	X	16.63277	215.47028	168.93949	3.91123	0.1663502	0.28615362	2.2807090	21	—	—
69346 1993 TV_{32}	16.4	X	123.19879	261.52914	103.54451	3.01581	0.1516590	0.29513682	2.2341918	21	—	—
69347 1993 TM_{41}	14.6	X	5.60712	259.08778	190.41403	12.42569	0.1093358	0.18411182	3.0601892	21	—	—
69348 1993 UH_8	16.4	X	342.96070	313.73912	135.20606	6.07245	0.0625737	0.28798708	2.2710187	21	—	—
69349 1993 VU	15.1	X	280.10799	256.35221	214.14904	22.74281	0.2634889	0.28109885	2.3079692	21	10 29.7	17.1
69350 1993 YP	15.4	X	4.73647	228.94552	149.49250	26.55172	0.1172380	0.38883349	1.8590608	21	—	—
69351 1994 AE_3	16.2	X	148.62049	228.49266	332.11310	2.40798	0.1108012	0.27349611	2.3505452	21	10 9.2	19.7
69352 1994 AR_5	16.5	X	69.27471	145.30416	83.41709	1.56909	0.1633596	0.26734076	2.3864881	21	8 23.8	19.5
69353 1994 AE_9	15.8	X	322.31526	18.53427	286.60099	1.62652	0.2079376	0.26653419	2.3913002	21	5 11.5	18.2
69354 1994 CZ_2	15.8	X	9.13819	96.17328	232.78034	4.56750	0.2583144	0.27268938	2.3551789	21	10 26.5	17.5
69355 1994 CM_{12}	16.4	X	230.19125	98.86898	69.99082	1.28380	0.2094534	0.27623397	2.3349880	21	11 15.5	19.4
69356 1994 CA_{17}	15.7	X	146.07195	40.06526	101.93438	2.86250	0.0714277	0.26510955	2.3998594	21	7 18.2	18.9
69357 1994 FU	15.2	X	348.22851	243.74009	226.97666	20.52383	0.2282009	0.28223855	2.3017518	21	—	—
69358 1994 PC_9	14.7	X	12.14415	215.22228	191.14066	0.28526	0.0734484	0.22804784	2.6532942	21	—	—
69359 1994 PH_{10}	15.7	X	306.20868	64.84191	328.90727	4.71429	0.0803316	0.21969702	2.7201109	21	9 10.6	19.1
69360 1994 PJ_{12}	15.5	X	40.03950	117.60712	244.19389	1.55681	0.2029876	0.22597266	2.6695135	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69361 1994 PA_{13}	15.8	X	86.93922	32.66045	291.07338	1.32818	0.0902733	0.22809021	2.6529656	21	12 30.9	19.7
69362 1994 PX_{13}	15.1	X	63.91186	225.99857	179.88543	3.51429	0.1486157	0.23214102	2.6220127	21	—	—
69363 1994 PK_{14}	15.3	X	17.36592	63.93537	318.96412	7.02986	0.1790867	0.22522105	2.6754493	21	—	—
69364 1994 PU_{30}	15.7	X	60.71692	129.19137	189.72192	8.07654	0.1511913	0.22517442	2.6758187	21	12 3.5	19.5
69365 1994 QF	15.4	X	329.95878	77.78344	331.27567	11.34279	0.2616928	0.22192643	2.7018632	21	11 1.2	17.8
69366 1994 RF_{6}	16.0	X	249.43616	261.00643	192.60373	4.23005	0.0894279	0.21739597	2.7392714	21	9 9.6	19.8
69367 1994 SD	15.5	X	82.01883	130.27464	201.69022	12.77011	0.1757025	0.22665189	2.6641775	21	—	—
69368 1994 SE_{8}	15.7	X	179.55831	184.30046	1.19006	2.37114	0.0915860	0.22088939	2.7103132	21	10 17.6	19.7
69369 1994 SP_{9}	15.1	X	91.64936	16.39512	184.33449	13.75451	0.1262623	0.21318157	2.7752553	21	8 2.5	19.3
69370 1994 SF_{11}	15.0	X	263.01241	64.95038	14.76763	14.15434	0.0234985	0.21792597	2.7348283	21	9 22.9	18.8
69371 1994 TA_{1}	13.7	X	344.52765	329.37176	18.56192	36.65178	0.1851675	0.21750800	2.7383307	21	9 26.8	16.8
69372 1994 UA_{6}	14.7	X	261.34003	9.48661	26.40635	8.61593	0.2270105	0.21172451	2.7879734	21	6 22.4	19.1
69373 1994 UL_{6}	15.5	X	142.94706	230.12723	262.57019	3.33404	0.0546041	0.20903096	2.8118726	21	6 30.0	19.5
69374 1994 UH_{7}	14.6	X	276.52570	195.71954	231.63935	8.21546	0.1218111	0.21558523	2.7545884	21	9 2.6	18.5
69375 1994 VG_{1}	15.1	X	318.41784	175.52792	212.62295	8.89318	0.1729430	0.21569221	2.7536775	21	9 10.7	18.2
69376 1994 WR_{1}	14.4	X	274.86198	16.99917	67.04868	9.78960	0.1287850	0.21345531	2.7728821	21	9 30.7	18.1
69377 1994 WJ_{3}	14.1	X	324.16117	336.23026	82.69546	14.46343	0.1991621	0.21823718	2.7322277	21	11 13.6	16.8
69378 1994 WA_{8}	15.3	X	268.00025	215.68591	193.94026	7.50549	0.2233991	0.21208045	2.7848531	21	7 16.7	19.4
69379 1994 WC_{13}	15.7	X	334.83615	112.11989	217.23139	2.64970	0.2020367	0.21401646	2.7680330	21	7 17.7	18.3
69380 1994 YK_{2}	14.4	X	166.83512	70.56531	74.12378	7.60766	0.1383940	0.20560520	2.8430205	21	8 16.5	19.0
69381 1995 BH	15.0	X	283.17915	189.50708	302.86264	1.91745	0.2804287	0.21647255	2.7470559	21	11 17.3	18.0
69382 1995 BQ_{8}	14.5	X	97.35576	338.48696	94.88541	3.16643	0.0506213	0.19093102	2.9868843	21	2 20.3	18.6
69383 1995 BK_{13}	16.1	X	80.18665	35.92471	40.09916	1.33520	0.0264893	0.30090552	2.2055451	21	1 3.1	18.5
69384 1995 CQ_{3}	15.3	X	299.54816	302.80763	179.74263	2.51424	0.0550762	0.17964826	3.1106707	21	12 21.1	19.5
69385 1995 DH_{6}	16.1	X	95.00932	273.05488	353.42220	5.18274	0.1189091	0.28098627	2.3085856	21	11 7.2	19.4
69386 1995 DL_{6}	16.3	X	88.29398	114.21864	152.54508	4.80494	0.1456447	0.27996003	2.3142238	21	11 6.3	19.6
69387 1995 DN_{7}	14.2	X	152.99268	248.10637	6.55020	5.88343	0.0829155	0.17368374	3.1814855	21	12 5.9	19.1
69388 1995 ER_{5}	14.8	X	10.44109	294.95032	162.29703	10.30574	0.0843909	0.18199613	3.0838597	21	—	—
69389 1995 FD_{4}	16.7	X	30.44716	241.17910	33.91163	2.77803	0.2226080	0.27378688	2.3488807	21	9 10.6	18.8
69390 1995 FH_{5}	16.1	X	123.55914	326.41857	359.46018	22.80916	0.2281858	0.28986373	2.2612060	21	—	—
69391 1995 FF_{6}	15.2	X	39.83554	305.26424	162.98794	14.41578	0.0911886	0.18612547	3.0380775	21	1 17.6	19.2
69392 1995 FV_{7}	16.2	X	137.17785	236.13902	39.91533	7.91713	0.0924571	0.28530661	2.2852208	21	—	—
69393 1995 FY_{7}	15.5	X	86.89289	248.05887	60.17315	6.27478	0.1530941	0.28278813	2.2987686	21	12 27.0	18.9
69394 1995 FA_{8}	14.2	X	341.11983	300.57835	135.64680	7.62778	0.0738512	0.17527178	3.1622391	21	12 20.9	18.4
69395 1995 FO_{12}	14.7	X	70.21082	187.80501	190.17125	5.05360	0.1300456	0.17718250	3.1394639	21	—	—
69396 1995 FN_{17}	16.2	X	127.35287	230.30600	119.80682	4.65884	0.1280579	0.29078124	2.2564469	21	—	—
69397 1995 FO_{17}	16.4	X	84.49242	159.64916	128.21787	4.46030	0.1645933	0.27894302	2.3198455	21	11 30.2	19.8
69398 1995 FH_{19}	15.0	X	86.30904	317.00632	88.55701	2.50605	0.1458247	0.18491351	3.0513378	21	1 15.9	19.0
69399 1995 GD_{4}	14.4	X	50.14370	332.63002	40.98128	9.53846	0.0756207	0.17406448	3.1768445	21	—	—
69400 1995 OO_{2}	15.7	X	111.50680	294.68038	244.17199	6.35012	0.0767353	0.26433256	2.4045599	21	7 24.7	19.1
69401 1995 QV_{3}	14.6	X	19.10098	318.52887	61.70311	27.01646	0.2717372	0.27325449	2.3519307	21	—	—
69402 1995 SM_{10}	16.2	X	221.44562	95.48476	179.20531	14.89739	0.1387464	0.24596974	2.5227929	21	—	—
69403 1995 SR_{13}	16.0	X	343.63301	229.52641	355.09037	2.25621	0.1258410	0.25325385	2.4741841	21	3 6.9	18.8
69404 1995 SS_{30}	15.9	X	161.68041	129.10007	349.17570	9.85877	0.1856644	0.25862221	2.4398259	21	7 10.2	20.0
69405 1995 SW_{48}	15.5	X	302.04599	145.98190	238.37642	24.81989	0.0851065	0.37741670	1.8963652	21	8 22.2	18.0
69406 1995 SX_{48}	14.6	X	228.64132	308.40044	299.31512	21.99532	0.0225424	0.39358509	1.8440681	21	—	—
69407 1995 SZ_{83}	15.8	X	231.75583	250.11947	6.10605	1.79836	0.0634778	0.24398965	2.5364235	21	—	—
69408 1995 TT_{8}	16.6	X	216.67390	284.13000	20.95684	1.86246	0.0850929	0.24579212	2.5240081	21	1 22.7	20.3
69409 1995 UQ	15.1	X	350.92842	294.48595	328.84760	8.28984	0.1851811	0.25777562	2.4451649	21	5 5.5	17.5
69410 1995 UB_{3}	16.0	X	254.45598	66.28035	326.53955	18.22207	0.0946986	0.37278671	1.9120347	21	6 29.3	18.4
69411 1995 UR_{8}	16.0	X	144.35951	287.68139	32.48266	4.69885	0.2379702	0.24096603	2.5575973	21	—	—
69412 1995 UJ_{37}	15.6	X	88.10325	343.60597	69.85627	6.30616	0.1023901	0.24137062	2.5547384	21	1 8.6	18.5
69413 1995 VA	15.1	X	98.25899	185.96675	226.37118	14.45266	0.0923185	0.24144520	2.5542123	21	1 16.0	18.5
69414 1995 VY_{11}	15.8	X	130.53965	236.42695	99.24847	4.72448	0.0774034	0.23839428	2.5759583	21	—	—
69415 1995 WA_{13}	15.7	X	128.57442	300.24849	111.03028	4.83563	0.0433081	0.24401236	2.5362662	21	2 22.2	19.0
69416 1995 WX_{16}	15.2	X	121.14259	354.87238	235.70449	5.94452	0.1700894	0.22558201	2.6725946	21	10 17.2	19.5
69417 1995 WV_{35}	13.8	X	123.87723	118.85062	264.14372	0.65194	0.2296318	0.12572552	3.9462726	21	2 21.1	19.9
69418 1995 WX_{42}	13.9	X	105.10220	317.27212	96.88993	14.72243	0.1384761	0.24106937	2.5568664	21	2 11.8	17.3
69419 1995 XH_{3}	15.7	X	321.66648	317.72390	184.74019	4.55280	0.0829631	0.23428411	2.6059985	21	—	—
69420 1995 YA_{1}	14.9	X	36.68264	15.21370	105.61491	13.20436	0.2553689	0.23666484	2.5884924	21	1 14.3	16.7
69421 Keizosaji	16.1	X	73.84468	343.51971	78.65288	5.29024	0.2839645	0.23768779	2.5810602	21	1 23.7	18.3
69422 1995 YO_{7}	14.6	X	82.57691	176.23774	237.33870	12.54989	0.1591852	0.23900646	2.5715578	21	1 5.1	17.6
69423 1996 AA_{2}	14.5	X	72.71588	59.11033	80.23125	16.47878	0.0665144	0.24603873	2.5223213	21	4 15.5	17.9
69424 1996 AG_{6}	14.9	X	332.99982	5.96560	336.21287	4.58045	0.1028194	0.21499369	2.7596388	21	8 12.4	18.1
69425 1996 BC	15.4	X	348.35869	311.95842	118.47879	5.40482	0.0816184	0.22597164	2.6695215	21	—	—
69426 1996 BW_{6}	15.4	X	204.90153	57.72405	75.12724	3.00541	0.0174337	0.21643613	2.7473641	21	9 16.7	19.1
69427 1996 BJ_{10}	15.3	X	80.99598	63.78430	193.49686	5.70536	0.0650526	0.21466437	2.7624605	21	9 26.2	19.0
69428 1996 EA_{3}	15.0	X	147.98811	140.28156	28.69919	7.19139	0.1401919	0.21041115	2.7995628	21	8 29.4	19.5
69429 1996 EB_{8}	14.9	X	202.65377	125.78622	139.63257	1.13579	0.1896721	0.18516016	3.0486274	21	—	—
69430 1996 GA_{1}	14.9	X	194.16427	177.71274	49.73629	1.63502	0.1946004	0.17793534	3.1306024	21	12 9.1	20.1
69431 1996 GG_{8}	14.7	X	164.45462	123.58849	172.61432	9.28409	0.1455905	0.18004090	3.1061465	21	—	—
69432 1996 HC_{18}	14.6	X	237.09019	68.72910	129.90259	0.88580	0.1275723	0.18064158	3.0992568	21	12 24.4	18.9
69433 1996 HY_{18}	14.5	X	144.39977	81.42978	215.32973	9.29192	0.0306976	0.17975056	3.1094903	21	—	—
69434 de Gerlache	13.5	X	182.83280	210.39645	45.14505	13.40059	0.2547352	0.17826277	3.1267677	21	12 28.5	19.1
69435 1996 HH_{21}	14.4	X	109.88886	190.49231	104.97435	2.35879	0.1939004	0.17383994	3.1795793	21	12 18.6	19.6
69436 1996 JT_{7}	14.5	X	107.16355	310.52839	76.29574	7.89046	0.1490680	0.18450388	3.0558524	21	1 21.9	18.8
69437 1996 KW_{2}	12.0	X	320.12784	215.68116	109.10960	30.32709	0.0720200	0.08135153	5.2750377	21	7 1.9	18.7
69438 1996 LU_{2}	15.1	X	301.98489	307.74355	184.67318	9.21641	0.0609693	0.17943158	3.1131745	21	—	—
69439 1996 PX	15.4	X	234.34293	304.78895	314.14551	5.26606	0.1485165	0.29713956	2.2241414	21	—	—
69440 1996 PV_{2}	15.3	X	101.50774	314.76160	310.89968	22.90008	0.1970725	0.28524139	2.2855691	21	11 15.1	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69441 1996 PG_8	15.6	X	248.03415	289.18306	299.63763	3.66776	0.1148999	0.29554879	2.2321151	21	—	—
69442 1996 RA_{13}	15.8	X	57.69428	277.28566	165.80558	5.89989	0.1118508	0.29338586	2.2430723	21	—	—
69443 1996 RB_{16}	15.8	X	163.60704	38.03462	181.43782	4.22649	0.2120677	0.28363319	2.2942004	21	11 17.4	19.5
69444 1996 RN_{17}	15.9	X	228.39722	166.48658	358.58835	6.59425	0.0400234	0.28226107	2.3016294	21	12 2.7	18.7
69445 1996 RZ_{20}	15.5	X	141.92564	2.19249	348.99581	7.77577	0.0691444	0.29350081	2.2424865	21	—	—
69446 1996 SL_4	15.7	X	49.12643	269.83105	14.29303	6.99333	0.1333458	0.27622386	2.3350450	21	10 8.1	18.3
69447 1996 SG_8	16.4	X	70.86909	295.26843	28.24624	0.44754	0.2518162	0.28277267	2.2988525	21	—	—
69448 1996 TQ	15.9	X	271.99759	356.85487	86.74780	3.06640	0.1785038	0.27399313	2.3477018	21	9 21.3	18.6
69449 1996 TD_2	15.4	X	75.45557	287.15470	30.32441	5.38375	0.0814634	0.28205674	2.3027408	21	12 19.4	18.5
69450 1996 TL_3	16.6	X	327.47648	233.25879	166.89560	2.23944	0.2112191	0.27721739	2.3294626	21	11 6.2	17.9
69451 1996 TD_5	16.1	X	115.39817	202.00090	16.84366	4.30150	0.0820923	0.27456667	2.3444313	21	9 26.7	19.2
69452 1996 TL_5	15.5	X	261.68748	25.21353	124.34457	5.81375	0.1311952	0.28079762	2.3096195	21	12 16.8	17.9
69453 1996 TG_{11}	15.6	X	117.70006	106.39182	211.25576	9.30792	0.2559780	0.28747187	2.2737314	21	—	—
69454 1996 TE_{28}	15.7	X	301.70714	4.57609	94.87448	4.66682	0.0766245	0.28029156	2.3123986	21	12 17.7	18.0
69455 1996 TB_{33}	15.8	X	119.01871	174.34724	239.32513	5.31903	0.0146372	0.29727873	2.2234472	21	1 25.2	18.5
69456 1996 TO_{33}	16.0	X	328.96199	193.85996	208.99302	5.35842	0.1566842	0.27735202	2.3287087	21	11 13.2	17.6
69457 1996 TP_{36}	15.6	X	162.82482	343.01043	320.83900	4.79519	0.1600001	0.29162747	2.2520798	21	—	—
69458 1996 TQ_{54}	15.9	X	77.51238	186.07616	201.79003	1.92256	0.0593757	0.28792943	2.2713218	21	—	—
69459 1996 TX_{62}	16.0	X	338.36213	88.76619	21.41924	4.89853	0.0610590	0.28767141	2.2726798	21	—	—
69460 Christibarnard	15.8	X	141.43073	39.95815	238.38221	5.92653	0.1475563	0.28517186	2.2859406	21	—	—
69461 1996 UA_3	16.0	X	26.19393	275.67232	66.28729	8.22719	0.1436163	0.27787529	2.3257843	21	11 26.9	18.5
69462 1996 UB_4	16.3	X	62.22202	190.05331	190.69479	6.25154	0.1124081	0.28644558	2.2791590	21	—	—
69463 1996 VZ_1	16.1	X	301.95148	354.32332	28.61585	2.58606	0.2247825	0.27114457	2.3641160	21	8 2.2	18.4
69464 1996 VV_4	15.6	X	319.08411	142.21021	270.01357	1.62746	0.2186281	0.27455324	2.3445077	21	11 1.3	17.1
69465 1996 VR_5	14.9	X	191.86922	282.39848	176.28601	2.03143	0.1801703	0.26392563	2.4070309	21	7 10.1	18.7
69466 1996 VZ_5	15.0	X	189.86071	62.03713	74.57768	22.09374	0.3268577	0.26471207	2.4022612	21	8 31.7	19.9
69467 1996 VA_{14}	15.6	X	335.69823	259.35324	54.49073	4.06337	0.1808216	0.26895966	2.3769021	21	6 28.2	17.4
69468 1996 VO_{15}	16.2	X	43.28185	60.86267	179.40766	1.06968	0.1474506	0.26644899	2.3918099	21	7 26.5	18.4
69469 Krumbenowe	16.1	X	35.08533	299.96794	49.04639	4.22404	0.1737155	0.28026202	2.3125611	21	12 24.1	18.9
69470 1996 XH	16.0	X	226.74454	284.17673	144.03056	2.24915	0.1556017	0.26539574	2.3981338	21	7 5.7	19.4
69471 1996 XM_1	15.5	X	108.80967	45.99430	93.44754	3.40667	0.1370223	0.25665297	2.4522901	21	6 6.6	18.6
69472 1996 XN_1	16.1	X	325.06773	330.56740	84.66293	3.77676	0.2129309	0.27416254	2.3467346	21	11 24.4	17.4
69473 1996 XO_1	14.9	X	161.14548	192.21469	284.26634	5.16928	0.0792476	0.26070452	2.4268169	21	7 1.5	18.3
69474 1996 XA_3	15.4	X	12.30834	145.35079	270.97929	7.83367	0.1759126	0.28017050	2.3130647	21	—	—
69475 1996 XE_9	15.6	X	297.14922	162.05399	262.66301	5.47246	0.1771939	0.27210473	2.3585513	21	10 2.1	18.0
69476 1996 XF_{10}	16.3	X	54.22533	152.90200	179.57040	3.19350	0.1056363	0.27798373	2.3251794	21	12 16.1	19.2
69477 1996 XS_{13}	16.4	X	199.82506	43.97849	45.85923	1.82404	0.1486407	0.26184411	2.4197705	21	7 7.7	20.0
69478 1996 XO_{15}	15.7	X	180.97212	204.45379	290.55002	0.56189	0.1285574	0.26378090	2.4079113	21	8 17.6	19.2
69479 1996 XH_{16}	17.0	X	218.85196	159.08167	292.33340	0.55113	0.1470178	0.26692783	2.3889486	21	7 29.4	20.5
69480 1996 XL_{19}	16.3	X	255.04313	127.74071	312.02979	0.65032	0.1508868	0.26767316	2.3845119	21	8 24.6	19.1
69481 1996 XU_{19}	15.0	X	169.32969	239.41447	247.62718	1.18974	0.1559324	0.26189703	2.4194445	21	7 26.0	18.6
69482 1996 XC_{26}	15.9	X	250.03543	148.92831	289.87994	1.22811	0.1943635	0.26723354	2.3871263	21	8 10.6	19.2
69483 1996 XA_{31}	16.2	X	198.71458	302.90224	133.23202	4.64395	0.2375318	0.26151021	2.4218298	21	6 16.4	20.3
69484 1996 YR_1	15.3	X	154.31509	164.96804	304.44658	6.33864	0.0878318	0.25690866	2.4506627	21	6 14.2	18.9
69485 1997 AD	14.0	X	346.44856	237.34606	294.27098	11.89499	0.1532518	0.24492058	2.5299923	21	—	—
69486 1997 AM_1	15.8	X	181.25577	330.07803	79.03822	4.07073	0.1765230	0.25621884	2.4550594	21	4 29.2	19.7
69487 1997 AZ_2	14.3	X	351.01099	39.43297	329.75204	9.26739	0.2338864	0.27158341	2.3615686	21	11 10.3	16.3
69488 1997 AV_3	16.0	X	319.23393	234.30220	189.12299	2.49865	0.2099733	0.27530446	2.3402408	21	11 23.3	17.3
69489 1997 AB_4	15.5	X	316.81678	77.14117	320.97369	2.67091	0.2143035	0.26988657	2.3714567	21	9 29.7	17.2
69490 1997 AE_5	14.6	X	221.84123	54.83589	309.90879	13.19278	0.1461402	0.25538891	2.4603753	21	4 2.3	18.8
69491 1997 AZ_5	15.2	X	28.76693	158.46393	275.07460	5.70219	0.0934140	0.28475750	2.2881576	21	—	—
69492 1997 AG_7	16.5	X	212.02652	248.82918	198.16810	2.86284	0.2267633	0.26250524	2.4157059	21	7 11.0	20.5
69493 1997 AO_{12}	15.5	X	312.58173	234.93007	110.22714	20.99915	0.1530650	0.26410577	2.4059363	21	7 5.6	17.8
69494 1997 AF_{15}	14.4	X	91.17750	94.90939	57.62909	7.53242	0.1261942	0.25459686	2.4654754	21	5 30.2	17.4
69495 1997 AY_{17}	15.6	X	8.85478	54.91467	21.30313	3.18531	0.2250604	0.27917435	2.3185637	21	—	—
69496 Zaoryuzan	16.0	X	208.23264	322.30243	120.09918	0.98086	0.1535305	0.26217412	2.4177395	21	7 5.8	19.5
69497 1997 BK_2	15.8	X	21.99163	125.31498	345.11647	3.76749	0.1764758	0.24241502	2.5473954	21	—	—
69498 1997 CM_1	14.9	X	226.47280	181.99418	13.58592	5.45750	0.1595326	0.23117551	2.6293082	21	12 13.6	18.6
69499 1997 CV_4	15.2	X	218.43800	91.95332	316.61508	13.21968	0.2050892	0.25958431	2.4337937	21	5 27.7	19.4
69500 Ginobartali	16.2	X	173.62283	269.64847	194.33537	2.35891	0.1473296	0.25897900	2.4375845	21	6 29.9	20.0
69501 1997 CK_{11}	15.9	X	161.01690	190.01718	52.42053	0.31060	0.0542284	0.23222313	2.6213946	21	12 10.6	19.7
69502 1997 CK_{12}	16.3	X	174.43667	94.49277	341.20784	1.88787	0.1805377	0.25606011	2.4560739	21	5 25.3	20.4
69503 1997 CF_{16}	15.9	X	113.12149	227.55598	147.65428	9.59785	0.1269974	0.24111736	2.5565271	21	—	—
69504 1997 CG_{20}	15.1	X	245.04493	176.84064	343.61662	11.18576	0.1126684	0.23007848	2.6376594	21	11 25.6	18.9
69505 1997 CX_{21}	15.6	X	125.07131	230.58822	252.96127	4.74278	0.1956903	0.25523828	2.4613432	21	6 10.7	19.3
69506 1997 CF_{26}	14.5	X	5.12128	79.06853	52.55464	5.42950	0.1816246	0.24115053	2.5562926	21	—	—
69507 1997 CQ_{27}	16.1	X	291.78073	14.72128	56.17936	2.79025	0.2169729	0.26919278	2.3755296	21	9 28.7	18.2
69508 1997 ET_2	14.7	X	234.17508	4.17632	165.79559	13.80402	0.1405094	0.22846389	2.6500720	21	11 25.9	18.7
69509 1997 ES_4	15.7	X	251.60230	163.06649	3.23896	5.37240	0.1413856	0.23008794	2.6375871	21	12 9.7	19.2
69510 1997 EN_5	15.6	X	36.91595	24.45021	6.80749	2.02638	0.0898610	0.23132844	2.6281493	21	—	—
69511 1997 ER_{33}	15.5	X	151.49691	33.87580	85.46559	3.55620	0.1435301	0.25757114	2.4464589	21	6 27.9	19.1
69512 1997 EZ_{38}	15.6	X	200.77219	147.58717	320.49930	6.00263	0.1708260	0.26203326	2.4186059	21	7 31.9	19.4
69513 1997 EP_{39}	15.0	X	348.47191	145.75197	323.38376	7.55304	0.0402081	0.23766114	2.5812532	21	—	—
69514 1997 EQ_{46}	15.0	X	330.20821	119.14078	2.38120	13.57070	0.2588414	0.23526883	2.5987218	21	—	—
69515 1997 EM_{47}	14.9	X	211.98388	94.63005	9.90456	11.62654	0.1210890	0.21767029	2.7369695	21	8 13.6	19.3
69516 1997 FJ	14.1	X	86.51862	115.99531	91.26117	14.46936	0.1458505	0.21267136	2.7796922	21	8 13.9	18.2
69517 1997 FM_3	14.8	X	329.92647	73.56640	18.57773	12.60801	0.1469870	0.23116417	2.6293942	21	—	—
69518 1997 FS_4	13.9	X	217.55277	196.79328	46.09929	34.23896	0.1699617	0.23086347	2.6316769	21	—	—
69519 1997 GT_1	15.5	X	115.58118	178.52187	202.30217	1.64982	0.0687395	0.23863290	2.5742408	21	—	—
69520 1997 GC_2	16.0	X	54.61535	141.72507	192.40429	1.93006	0.1142723	0.22556722	2.6727113	21	12 9.6	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69521 1997 GY_2	15.9	X	326.25006	187.55621	141.94670	1.01477	0.1459046	0.21431053	2.7655003	21	7 7.8	18.8
69522 1997 GY_6	15.5	X	62.26032	269.20735	34.50601	14.23597	0.0414541	0.21989181	2.7185043	21	10 29.7	19.2
69523 1997 GH_7	15.1	X	249.85222	66.32342	83.58999	3.22620	0.0401589	0.22494052	2.6776733	21	12 1.3	18.7
69524 1997 GM_7	13.7	X	78.83917	29.66814	44.57276	18.41928	0.1524450	0.23856066	2.5747604	21	2 6.1	17.1
69525 1997 GF_9	15.0	X	310.56150	283.33327	203.07013	13.34560	0.1027517	0.23191185	2.6237397	21	—	—
69526 1997 GN_9	15.0	X	140.59356	301.28564	4.73319	15.07155	0.0898137	0.23047723	2.6346162	21	—	—
69527 1997 GU_{10}	16.4	X	38.50655	271.91994	193.63878	3.28113	0.2128758	0.24095782	2.5576554	21	—	—
69528 1997 GV_{10}	16.1	X	155.19383	280.96819	190.53230	2.00028	0.1593492	0.25400277	2.4693183	21	6 22.2	20.0
69529 1997 GU_{12}	16.2	X	24.08672	124.62678	24.37346	5.73646	0.1706863	0.24276516	2.5449454	21	1 31.5	18.6
69530 1997 GN_{13}	16.2	X	15.62223	113.20507	10.89288	8.77339	0.1149448	0.23888858	2.5724037	21	—	—
69531 1997 GV_{13}	16.4	X	283.39379	325.59788	221.12658	3.17876	0.1082442	0.23439800	2.6051543	21	—	—
69532 1997 GC_{17}	15.7	X	328.07243	163.21353	1.45509	5.18708	0.0870713	0.23718911	2.5846766	21	—	—
69533 1997 GT_{17}	14.4	X	336.13964	5.04112	16.28727	15.32737	0.0659676	0.22147222	2.7055561	21	10 12.2	17.8
69534 1997 GG_{20}	15.0	X	95.03132	13.78216	9.07436	8.64518	0.0938961	0.23536682	2.5980005	21	—	—
69535 1997 GN_{23}	14.9	X	61.52175	126.19876	23.45876	6.59415	0.1415490	0.24510927	2.5286937	21	4 13.1	17.6
69536 1997 GN_{24}	14.2	X	92.06599	6.46830	40.83269	15.54646	0.0751260	0.23564669	2.5959430	21	1 4.6	17.7
69537 1997 GZ_{32}	15.5	X	75.59355	298.56733	292.11539	1.41162	0.1812804	0.21408712	2.7674239	21	9 1.3	19.4
69538 1997 GH_{36}	13.5	X	240.60749	103.11678	37.26887	13.62925	0.1046039	0.22320729	2.6915170	21	10 28.8	17.2
69539 1997 GO_{40}	15.8	X	308.89567	104.83042	61.98437	3.91959	0.1350668	0.23406754	2.6076057	21	—	—
69540 1997 HA_1	15.1	X	286.12304	97.33810	51.33880	16.18877	0.1386861	0.23088856	2.6314863	21	—	—
69541 1997 HZ_9	14.9	X	9.00628	140.78489	138.43919	2.53061	0.1449210	0.17025295	3.2240836	21	7 16.5	18.5
69542 1997 HL_{10}	15.2	X	324.44238	261.30754	188.12444	2.20496	0.0593675	0.22642804	2.6659331	21	12 25.5	18.4
69543 1997 JZ_2	15.9	X	3.80008	69.48216	255.73173	2.42356	0.0994401	0.21877085	2.7277826	21	9 9.3	19.1
69544 1997 JV_9	15.1	X	4.46109	244.92413	149.42102	10.43008	0.0876362	0.22268879	2.6956933	21	12 15.2	18.6
69545 1997 JF_{10}	15.2	X	2.90826	285.44271	203.27396	2.52664	0.1412355	0.23529223	2.5985495	21	—	—
69546 1997 JO_{13}	14.7	X	114.66706	233.84230	56.09724	16.20146	0.0634888	0.22360497	2.6883249	21	12 15.1	18.7
69547 1997 KU_1	15.6	X	273.53051	314.70671	186.71125	14.51342	0.1216105	0.22527265	2.6750408	21	12 11.8	19.2
69548 1997 LA_3	14.2	X	105.08956	325.93143	71.31630	18.11555	0.1699445	0.23347275	2.6120325	21	1 26.9	17.8
69549 1997 LC_4	14.9	X	145.94870	34.43847	78.23321	23.70659	0.0781325	0.36962117	1.9229360	21	6 4.7	17.0
69550 1997 LA_6	14.2	X	286.81093	298.64976	102.28691	16.74795	0.1670161	0.21299842	2.7768460	21	8 11.9	17.9
69551 1997 MY_2	14.8	X	161.88839	289.69598	0.72363	3.05645	0.0955360	0.18331795	3.0690176	21	—	—
69552 1997 MT_4	14.3	X	246.14687	175.07682	99.78238	15.01743	0.1095256	0.19159183	2.9800123	21	1 24.4	19.0
69553 1997 QS_2	13.9	X	11.98393	12.16389	71.68120	6.47220	0.1718401	0.17724501	3.1387258	21	—	—
69554 1997 SZ_4	14.0	X	115.14291	322.52753	8.15536	21.29626	0.0743903	0.17490537	3.1666541	21	—	—
69555 1997 SQ_9	14.7	X	22.28225	116.86829	356.53408	12.92046	0.0889783	0.18043435	3.1016294	21	1 2.4	18.9
69556 1997 SA_{31}	14.0	X	92.70937	132.68898	203.83162	18.55218	0.0934548	0.17185138	3.2040604	21	—	—
69557 1997 SY_{31}	14.2	X	93.53603	344.71403	348.05316	9.10730	0.0751826	0.17469475	3.1691988	21	—	—
69558 1997 TA_{26}	14.1	X	325.69137	88.52151	23.62974	18.21882	0.1506802	0.17230022	3.1984936	21	—	—
69559 1997 UG_5	13.9	X	1.78123	27.17424	29.72717	18.35896	0.1845207	0.16914397	3.2381605	21	—	—
69560 1997 UW_{14}	13.8	X	59.58600	351.93312	49.96310	6.52699	0.1133496	0.17486007	3.1672009	21	—	—
69561 1997 YD_2	15.6	X	72.30963	246.04507	286.54766	4.37155	0.0627408	0.30902350	2.1667479	21	5 15.8	17.9
69562 1997 YU_6	15.3	X	135.50808	62.94268	109.28128	7.10748	0.0401574	0.27368070	2.3494882	21	8 15.5	18.3
69563 1997 YP_{10}	15.8	X	24.48089	153.18929	3.18057	5.09898	0.0633536	0.30091335	2.2055068	21	2 2.2	18.0
69564 1997 YA_{18}	16.5	X	61.20338	307.76993	318.27164	5.38727	0.2006698	0.27475428	2.3433639	21	10 7.1	19.6
69565 1998 AZ_4	15.8	X	337.94330	217.06702	271.61552	7.06120	0.0749767	0.29364680	2.2417432	21	—	—
69566 1998 BX	13.2	X	55.14630	270.00150	129.82693	3.79826	0.2595230	0.12483147	3.9650924	21	—	—
69567 1998 BC_8	15.6	X	184.44219	223.44411	342.50872	3.07199	0.1838890	0.27961202	2.3161437	21	11 18.1	19.2
69568 1998 BK_{12}	15.1	X	49.58576	105.50428	106.76945	6.78682	0.0689075	0.26756715	2.3851417	21	6 13.3	17.8
69569 1998 BU_{12}	15.8	X	285.80992	6.34146	114.19217	7.34327	0.0541465	0.28588865	2.2821180	21	12 25.1	18.2
69570 1998 BT_{24}	14.4	X	224.17203	262.33817	357.68860	5.40143	0.0983129	0.29129081	2.2538146	21	—	—
69571 1998 BJ_{25}	15.4	X	343.03902	72.03140	58.20370	2.57725	0.1038625	0.29158374	2.2523049	21	—	—
69572 1998 BY_{25}	14.8	X	325.74806	121.80179	91.73192	7.11665	0.0577747	0.29832951	2.2182232	21	1 25.7	17.4
69573 1998 BQ_{26}	15.8	X	135.03622	166.83030	91.28044	7.71103	0.1608287	0.28179364	2.3041739	21	12 10.3	19.5
69574 1998 BR_{35}	15.9	X	41.60724	123.74254	131.76631	6.82967	0.0891265	0.26894512	2.3769877	21	8 7.1	18.3
69575 1998 BT_{36}	16.7	X	99.45942	244.01932	302.35244	0.73769	0.1271827	0.26993647	2.3711645	21	7 28.7	19.7
69576 1998 BQ_{46}	16.1	X	108.87392	283.61225	325.80289	2.91216	0.1059858	0.27754750	2.3276151	21	10 30.2	19.4
69577 1998 CE_5	15.6	X	59.95103	243.67598	347.28295	2.18067	0.1186446	0.26768283	2.3844545	21	8 5.5	18.1
69578 1998 DC	15.9	X	134.87634	344.57285	200.19766	4.10699	0.0678471	0.27145455	2.3623159	21	8 31.2	19.2
69579 1998 DQ_1	16.8	X	255.08197	51.25179	120.85044	2.08991	0.1339247	0.28629553	2.2799553	21	—	—
69580 1998 DR_7	15.2	X	337.18608	30.80125	55.95571	4.07268	0.1604867	0.28534348	2.2850239	21	—	—
69581 1998 DX_8	16.2	X	69.17984	218.04810	80.99995	1.34488	0.1110283	0.27742424	2.3283045	21	11 20.8	19.3
69582 1998 DM_{10}	15.3	X	209.85432	245.30850	192.83411	6.42452	0.1031581	0.27072664	2.3665484	21	7 3.9	18.9
69583 1998 DP_{10}	15.7	X	78.37516	289.17583	203.35262	2.98031	0.0717755	0.30171507	2.2015981	21	3 27.9	17.7
69584 1998 DZ_{10}	15.5	X	194.22005	299.04457	359.93936	7.03773	0.1241349	0.29337498	2.2431277	21	—	—
69585 1998 DN_{35}	15.4	X	331.49610	181.18093	347.89024	0.94256	0.1199674	0.29382086	2.2408578	21	—	—
69586 1998 DE_{36}	15.6	X	283.37951	194.10018	20.92148	5.43006	0.1165557	0.29152537	2.2526055	21	—	—
69587 1998 EZ_1	15.6	X	113.24578	288.23866	182.39683	3.50225	0.0094220	0.25756860	2.4464750	21	4 14.5	18.7
69588 1998 EF_4	16.3	X	339.71899	83.41660	9.99237	6.01858	0.0723819	0.28495247	2.2871137	21	—	—
69589 1998 EM_7	16.0	X	314.80159	116.10870	354.63314	4.38160	0.1617577	0.28621788	2.2803677	21	—	—
69590 1998 EL_8	14.8	X	20.46673	215.15166	224.40908	5.60116	0.1342606	0.29030563	2.2589108	21	—	—
69591 1998 EV_{13}	15.3	X	210.14449	138.88835	39.35359	3.26683	0.1460552	0.27897148	2.3196877	21	11 13.0	18.3
69592 1998 EO_{14}	15.6	X	125.02069	71.51544	84.50522	3.16754	0.1019478	0.26646996	2.3916844	21	7 15.0	18.7
69593 1998 EN_{21}	15.4	X	292.62181	7.35074	114.53217	7.58461	0.0619831	0.28720464	2.2751415	21	—	—
69594 Ulferika	15.8	X	125.40902	177.07177	46.41510	3.31461	0.1423477	0.27364614	2.3496860	21	10 17.7	19.3
69595 1998 FK_{11}	15.2	X	300.49579	13.71642	120.99599	7.42688	0.0484797	0.28327701	2.2961231	21	—	—
69596 1998 FT_{14}	15.1	X	250.33760	164.63792	348.12104	6.96530	0.0423433	0.28007611	2.3135843	21	12 16.6	17.9
69597 1998 FQ_{15}	15.6	X	97.24555	133.87431	263.63450	2.92690	0.1623904	0.29174901	2.2514542	21	—	—
69598 1998 FT_{18}	15.9	X	358.08469	35.83397	201.18301	3.55751	0.2063547	0.25969394	2.4331087	21	4 10.2	17.7
69599 1998 FH_{19}	15.6	X	146.37438	255.89880	319.17101	5.57673	0.1674536	0.27528980	2.3403239	21	10 24.3	19.3
69600 1998 FC_{23}	15.3	X	236.78651	226.06324	356.57399	7.12439	0.0467256	0.28752215	2.2734662	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69601 1998 FB_{27}	16.0	X	126.99374	183.16985	326.56882	4.56086	0.1493813	0.26665934	2.3905519	21	7 13.8	19.5
69602 1998 FE_{28}	15.8	X	229.87097	299.33642	187.95341	4.07748	0.0863169	0.27626088	2.3348364	21	10 7.5	18.7
69603 1998 FD_{29}	15.7	X	213.92188	43.16354	162.63850	1.79767	0.1492477	0.28200558	2.3030193	21	12 23.8	18.6
69604 1998 FH_{35}	15.8	X	320.66360	255.73734	181.31113	3.57041	0.1169961	0.28127848	2.3069864	21	12 18.8	17.9
69605 1998 FA_{38}	16.0	X	83.79967	153.81174	3.80051	0.31847	0.1554824	0.26246091	2.4159779	21	5 31.7	18.8
69606 1998 FX_{40}	15.7	X	90.85396	76.20101	168.42611	5.29927	0.1242989	0.27091716	2.3654387	21	10 6.9	18.8
69607 1998 FZ_{41}	15.9	X	140.93498	333.86160	238.46600	1.65897	0.1679321	0.27345533	2.3507789	21	10 17.9	19.6
69608 1998 FJ_{42}	15.3	X	146.91356	304.46340	254.04886	2.22277	0.1791467	0.27283994	2.3543124	21	10 5.5	19.0
69609 1998 FQ_{42}	15.7	X	66.19130	146.66313	327.13971	3.11861	0.0788343	0.29713047	2.2241868	21	2 9.6	17.7
69610 1998 FD_{43}	15.8	X	70.39260	31.23768	192.18606	2.65635	0.1322938	0.26609409	2.3939361	21	8 10.9	18.7
69611 1998 FP_{46}	16.2	X	35.88963	104.76864	9.42520	4.16159	0.0765005	0.29350755	2.2424522	21	—	—
69612 1998 FW_{46}	16.0	X	356.97540	302.51632	186.94981	3.78132	0.0941400	0.29074785	2.2566197	21	—	—
69613 1998 FK_{47}	14.6	X	83.86008	315.18098	352.33761	7.36929	0.1264344	0.27725497	2.3292521	21	12 19.8	18.1
69614 1998 FK_{48}	15.5	X	0.58483	280.10648	209.38714	4.83097	0.1349319	0.29151416	2.2526633	21	—	—
69615 1998 FF_{49}	16.2	X	199.27331	166.55632	329.16938	2.02073	0.1632569	0.27301107	2.3533285	21	9 4.9	19.6
69616 1998 FY_{49}	15.5	X	138.61045	129.99234	2.34984	6.59288	0.0708328	0.26500471	2.4004923	21	6 25.6	18.8
69617 1998 FD_{52}	15.4	X	255.91038	119.12093	14.79341	5.89319	0.1048774	0.27946843	2.3169369	21	11 17.5	18.1
69618 1998 FY_{52}	15.3	X	311.96919	109.53196	8.68831	5.68784	0.1465853	0.28476332	2.2881264	21	—	—
69619 1998 FM_{53}	15.6	X	333.75419	233.71031	192.41821	6.64302	0.0757430	0.28035099	2.3120718	21	12 23.2	18.1
69620 1998 FP_{53}	15.6	X	22.95483	280.21257	196.99412	6.53257	0.2325191	0.29388471	2.2405332	21	—	—
69621 1998 FA_{54}	15.6	X	128.65887	325.65478	256.28956	2.04150	0.1588973	0.27244870	2.3565657	21	10 17.9	19.2
69622 1998 FS_{54}	15.6	X	271.20908	85.60911	2.83759	6.03444	0.0681272	0.27538391	2.3397907	21	10 12.5	18.4
69623 1998 FM_{55}	15.5	X	307.04361	358.40033	142.37282	3.73579	0.0852415	0.28588860	2.2821183	21	—	—
69624 1998 FN_{57}	15.7	X	274.50172	313.29705	195.34833	5.58256	0.1148447	0.28292157	2.2980458	21	—	—
69625 1998 FG_{58}	14.8	X	41.46695	312.22603	0.73510	7.11436	0.1212522	0.27224296	2.3577529	21	11 1.5	17.7
69626 1998 FM_{59}	15.6	X	173.14804	37.25372	102.56646	3.43419	0.1061643	0.26964415	2.3728778	21	8 17.5	19.0
69627 1998 FC_{62}	15.5	X	13.42572	44.45977	204.64705	9.43586	0.1400622	0.26127245	2.4232988	21	6 9.3	17.8
69628 1998 FD_{62}	14.9	X	96.79522	284.37800	348.81592	6.21965	0.0963330	0.27413040	2.3469180	21	11 14.6	18.2
69629 1998 FS_{62}	15.3	X	14.70211	47.79073	200.14844	6.07748	0.1152353	0.26141461	2.4224202	21	6 9.3	17.7
69630 1998 FA_{63}	15.9	X	208.41799	170.53054	6.48460	5.45811	0.0998971	0.27761288	2.3272496	21	11 13.4	19.0
69631 1998 FF_{63}	15.8	X	206.52735	82.15334	181.57209	12.83677	0.1667393	0.24272515	2.5452251	21	—	—
69632 1998 FN_{64}	16.1	X	262.42774	136.67421	14.27165	6.87730	0.0819897	0.28122256	2.3072923	21	12 27.2	18.7
69633 1998 FM_{65}	15.9	X	230.47638	15.86376	224.21027	4.26463	0.2054028	0.24270146	2.5453907	21	—	—
69634 1998 FH_{68}	15.9	X	140.56464	156.90788	11.79085	2.73162	0.1210917	0.26815138	2.3816760	21	8 21.3	19.4
69635 1998 FJ_{68}	15.5	X	227.39717	101.19080	28.76309	0.33575	0.1916050	0.27543543	2.3394989	21	9 24.2	18.6
69636 1998 FE_{71}	15.8	X	272.12950	170.11626	348.17265	3.43023	0.1024838	0.28277172	2.2988576	21	—	—
69637 1998 FN_{71}	15.3	X	70.65909	179.54517	16.01466	9.24604	0.1531874	0.26240817	2.4163016	21	7 7.6	18.3
69638 1998 FU_{71}	16.2	X	52.16708	277.12574	336.43070	2.38481	0.1210211	0.26703315	2.3883204	21	8 26.5	18.7
69639 1998 FR_{75}	15.0	X	288.89835	35.86525	43.78526	7.41887	0.0730544	0.27608038	2.3358539	21	10 28.9	17.5
69640 1998 FP_{76}	15.0	X	295.29700	21.59522	130.36945	4.72728	0.0602436	0.28475709	2.2881598	21	—	—
69641 1998 FQ_{77}	15.4	X	21.47607	355.85209	46.22791	7.03702	0.1371631	0.28205401	2.3027557	21	—	—
69642 1998 FX_{77}	15.6	X	55.04916	16.44011	100.01098	4.87224	0.1152252	0.29536420	2.2330450	21	1 27.3	17.3
69643 1998 FY_{77}	15.4	X	28.07211	17.71121	109.36237	5.20699	0.0951527	0.29306986	2.2446844	21	—	—
69644 1998 FT_{78}	15.6	X	53.83510	270.07227	158.96653	7.00403	0.1515936	0.28929610	2.2641628	21	—	—
69645 1998 FM_{79}	15.7	X	78.98375	192.28433	34.86925	9.38521	0.1828910	0.26595844	2.3947501	21	9 10.1	19.0
69646 1998 FV_{79}	15.4	X	70.42411	38.03424	61.25834	6.04265	0.0935521	0.29463298	2.2367381	21	1 30.2	17.5
69647 1998 FO_{84}	15.5	X	279.45946	116.33751	48.10692	7.86898	0.0567676	0.28654422	2.2786360	21	—	—
69648 1998 FW_{87}	16.0	X	86.09859	30.29755	59.80987	4.30346	0.1290311	0.29843819	2.2176846	21	2 17.1	18.0
69649 1998 FK_{98}	15.7	X	329.29961	211.18742	281.15852	5.33254	0.1155189	0.28832220	2.2692586	21	—	—
69650 1998 FT_{99}	15.8	X	108.60266	218.28834	327.48188	6.52774	0.0621899	0.26708542	2.3880088	21	7 31.7	18.9
69651 1998 FW_{99}	15.4	X	103.01443	279.43606	248.49559	5.02304	0.1522662	0.26482244	2.4015937	21	7 9.9	18.7
69652 1998 FJ_{101}	15.7	X	13.96316	219.98068	317.72637	6.88671	0.1234418	0.25502653	2.4627055	21	2 19.3	18.1
69653 1998 FT_{101}	14.9	X	242.35608	242.94947	292.84018	3.63408	0.0737409	0.28204748	2.3027913	21	—	—
69654 1998 FR_{102}	15.6	X	109.71410	292.89574	246.96629	5.94778	0.2214038	0.26627763	2.3928359	21	8 8.8	19.3
69655 1998 FD_{106}	15.9	X	62.32793	297.11017	335.80702	6.19363	0.0902270	0.27017325	2.3697788	21	9 30.9	18.9
69656 1998 FV_{108}	15.9	X	257.01254	192.69508	286.82921	4.42712	0.1043033	0.27741064	2.3283806	21	10 29.2	18.7
69657 1998 FX_{108}	15.2	X	153.98553	30.32802	239.43950	5.29616	0.0847010	0.28059739	2.3107181	21	—	—
69658 1998 FC_{114}	15.2	X	226.05830	269.27345	236.04088	6.41741	0.1573871	0.27661460	2.3328455	21	10 15.7	18.4
69659 1998 FE_{116}	15.6	X	148.07216	213.59884	329.04535	5.16105	0.0857421	0.27051109	2.3678054	21	9 13.8	18.8
69660 1998 FP_{117}	15.3	X	210.98522	18.03472	232.63438	10.50066	0.1484123	0.24076686	2.5590076	21	—	—
69661 1998 FZ_{117}	15.9	X	335.03080	284.11521	290.39328	3.61040	0.1345852	0.25261667	2.4783428	21	2 5.4	18.6
69662 1998 FR_{118}	15.5	X	150.28281	224.00333	302.58095	3.22771	0.1714200	0.26913333	2.3758794	21	8 28.4	19.2
69663 1998 FM_{119}	16.4	X	24.92833	23.00087	212.76186	8.74969	0.1748829	0.26099297	2.4250285	21	6 15.1	18.5
69664 1998 FN_{122}	15.7	X	352.54009	57.46347	194.01880	5.08724	0.1316298	0.25893663	2.4378504	21	5 1.0	18.0
69665 1998 FQ_{122}	14.8	X	84.00696	283.32008	23.50898	10.62078	0.2725103	0.23199236	2.6231327	21	12 23.7	19.3
69666 1998 FC_{123}	15.5	X	186.81406	213.95744	60.36084	4.86880	0.1165570	0.24188089	2.5511442	21	—	—
69667 1998 FL_{131}	16.5	X	100.87100	258.48762	318.48231	0.81982	0.1324113	0.26819999	2.3813883	21	9 10.8	19.9
69668 1998 FD_{133}	16.3	X	190.85898	198.67695	323.44147	0.29681	0.1610690	0.27569913	2.3380069	21	10 1.4	19.9
69669 1998 FF_{137}	16.5	X	41.18719	6.65516	221.20616	1.99979	0.1712904	0.26236438	2.4165705	21	7 6.8	18.7
69670 1998 FM_{141}	16.5	X	312.39924	23.10325	245.23670	2.20276	0.1525039	0.25632146	2.4544041	21	3 14.1	19.6
69671 1998 GY_{3}	15.1	X	180.51602	157.81299	117.32444	13.54149	0.2475373	0.24096876	2.5575780	21	—	—
69672 1998 GX_{7}	15.1	X	246.75814	325.64004	165.57805	24.81140	0.2102905	0.27804800	2.3248211	21	10 20.8	18.4
69673 1998 GX_{10}	15.5	X	224.84059	16.36320	66.52787	5.32283	0.1131272	0.27111268	2.3643013	21	7 29.3	18.8
69674 1998 HP_{3}	15.3	X	216.11487	73.75109	155.71393	4.02925	0.2351873	0.23941200	2.5686530	21	—	—
69675 1998 HT_{7}	15.2	X	242.16112	307.41876	194.05259	22.50617	0.2346118	0.27688045	2.3313520	21	10 22.0	18.4
69676 1998 HV_{13}	15.9	X	243.86717	250.11832	241.59370	5.76579	0.0547893	0.27735256	2.3287057	21	11 5.6	18.6
69677 1998 HC_{14}	15.5	X	218.59147	98.60835	135.36347	9.29896	0.1833058	0.23972012	2.5664515	21	—	—
69678 1998 HA_{15}	15.9	X	257.58727	9.13837	95.73456	2.48991	0.1872547	0.27660614	2.3328931	21	9 29.0	18.7
69679 1998 HR_{15}	15.9	X	50.94542	19.37962	156.90040	5.21205	0.0539964	0.25772308	2.4454972	21	4 23.8	18.8
69680 1998 HC_{16}	15.4	X	153.89291	227.40552	62.01338	8.82854	0.1724286	0.23810493	2.5780448	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69681 1998 HN_{17}	15.5	X	210.25411	236.83237	304.08104	3.21631	0.1556560	0.27869958	2.3211962	21	11 14.7	18.7
69682 1998 HA_{19}	15.9	X	94.12678	344.02429	231.35486	2.43543	0.1358441	0.26719044	2.3873830	21	8 31.1	19.2
69683 1998 HK_{21}	16.2	X	79.90146	344.85706	202.21895	2.13886	0.1280940	0.26325816	2.4110978	21	7 2.9	19.2
69684 1998 HA_{22}	15.6	X	211.12590	45.06941	221.45080	4.57956	0.2136495	0.24295470	2.5436217	21	—	—
69685 1998 HD_{22}	15.5	X	157.83354	240.19537	14.55098	13.77750	0.1730847	0.23587825	2.5942438	21	12 18.1	20.0
69686 1998 HR_{23}	16.0	X	13.05431	4.24199	217.23060	1.59817	0.1539227	0.25607908	2.4559526	21	4 24.4	18.2
69687 1998 HK_{24}	15.7	X	76.58021	212.36530	179.80756	14.07759	0.1965077	0.23997714	2.5646187	21	—	—
69688 1998 HD_{25}	16.0	X	231.25989	277.08419	173.04920	6.02039	0.1918557	0.27182824	2.3601503	21	8 4.5	19.5
69689 1998 HV_{28}	16.0	X	326.38362	161.43954	174.42078	6.56988	0.1437173	0.26588628	2.3951834	21	7 17.7	18.3
69690 1998 HL_{30}	15.1	X	6.94115	66.14562	63.89750	5.43031	0.1122513	0.29122033	2.2541783	21	—	—
69691 1998 HQ_{32}	15.8	X	11.97658	352.01911	192.69154	4.59637	0.1277106	0.25463378	2.4652371	21	2 25.2	18.1
69692 1998 HZ_{32}	16.2	X	196.44311	310.69024	227.65497	1.76592	0.1465384	0.27605475	2.3359985	21	10 29.1	19.6
69693 1998 HX_{33}	15.5	X	206.41427	66.86905	208.55361	13.48006	0.0844795	0.24417975	2.5351070	21	—	—
69694 1998 HQ_{35}	15.5	X	231.32281	94.58910	184.76244	12.40572	0.1131212	0.24729593	2.5137653	21	1 3.8	19.6
69695 1998 HL_{36}	14.7	X	274.58119	62.49444	34.13955	9.25282	0.2512966	0.27783967	2.3259830	21	10 3.3	17.1
69696 1998 HA_{38}	15.5	X	85.99051	131.58627	359.13208	6.33770	0.0778350	0.25718599	2.4489007	21	4 12.4	18.5
69697 1998 HH_{39}	15.8	X	55.93692	342.17529	204.53076	4.48695	0.1391048	0.25981531	2.4323509	21	5 27.3	18.2
69698 1998 HW_{43}	15.6	X	233.11814	232.58404	31.53291	13.70024	0.1207407	0.24555607	2.5256254	21	—	—
69699 1998 HS_{45}	15.7	X	179.35326	221.32721	240.30502	6.01646	0.0762996	0.26457780	2.4030738	21	7 1.9	19.1
69700 1998 HL_{46}	15.9	X	115.90676	15.19384	169.12282	2.41821	0.1519577	0.26634995	2.3924028	21	8 16.5	19.3
69701 1998 HP_{49}	15.9	X	312.25792	147.93362	237.15124	20.18095	0.1104600	0.43854240	1.7157802	21	10 5.6	16.9
69702 1998 HP_{57}	14.8	X	169.96785	162.14450	30.56135	9.21290	0.1507782	0.27371401	2.3492976	21	10 21.1	18.5
69703 1998 HQ_{63}	14.9	X	18.11148	217.74870	73.17926	4.60203	0.1821317	0.22177959	2.7030557	21	8 29.6	17.6
69704 1998 HS_{69}	15.3	X	184.41489	87.85058	24.57694	6.81936	0.0607866	0.26569340	2.3963424	21	7 25.9	18.7
69705 1998 HM_{70}	15.5	X	220.30773	250.05997	199.55713	7.34339	0.1033478	0.26766216	2.3845773	21	7 30.3	19.0
69706 1998 HJ_{77}	15.4	X	211.46460	128.70262	25.82186	5.23918	0.1576730	0.27481643	2.3430106	21	10 13.3	18.5
69707 1998 HP_{79}	15.8	X	182.07751	322.23870	332.63798	2.98146	0.1387707	0.24170159	2.5524058	21	—	—
69708 1998 HX_{85}	15.3	X	132.23100	180.81504	18.22469	2.84967	0.1152686	0.26911218	2.3760039	21	9 21.1	18.8
69709 1998 HH_{87}	15.4	X	245.58646	89.13728	244.30969	5.00090	0.1464887	0.25357866	2.4720709	21	3 22.1	19.3
69710 1998 HR_{88}	15.8	X	326.10074	267.68636	228.68964	2.47541	0.0867646	0.28525142	2.2855155	21	—	—
69711 1998 HA_{89}	15.3	X	214.99652	254.74860	36.85138	12.63213	0.1657137	0.24484343	2.5305237	21	1 6.4	19.6
69712 1998 HV_{90}	15.3	X	87.23588	105.00817	70.91489	7.17632	0.0748219	0.26143464	2.4222965	21	6 18.6	18.2
69713 1998 HB_{98}	15.2	X	128.15303	280.69419	287.85342	4.16562	0.0969771	0.26906788	2.3762647	21	9 25.1	18.6
69714 1998 HR_{98}	15.0	X	103.96412	177.80150	41.00262	8.49953	0.1347559	0.26726555	2.3869357	21	9 21.2	18.5
69715 1998 HG_{104}	14.8	X	152.60183	225.83375	54.36953	16.62585	0.1953087	0.23718494	2.5847070	21	—	—
69716 1998 HG_{105}	15.3	X	208.58999	85.15920	91.91700	5.58818	0.1079698	0.27683099	2.3316297	21	11 15.6	18.4
69717 1998 HH_{108}	15.4	X	173.44449	198.68951	78.86506	9.71529	0.1509364	0.23940842	2.5686786	21	—	—
69718 1998 HH_{116}	15.4	X	191.94123	102.82961	179.76450	11.30383	0.2616597	0.24036280	2.5618747	21	—	—
69719 1998 HY_{119}	15.4	X	35.86457	54.67191	159.14882	9.93529	0.0735706	0.25898408	2.4375526	21	5 26.5	18.3
69720 1998 HW_{120}	15.3	X	327.46675	290.86252	109.77078	8.79569	0.0169010	0.27282365	2.3544061	21	11 7.7	18.2
69721 1998 HJ_{125}	15.0	X	209.07248	60.56448	179.55844	12.26165	0.1560885	0.23857143	2.5746830	21	—	—
69722 1998 HO_{127}	15.8	X	295.55551	262.45108	204.24342	6.40457	0.0649412	0.27959564	2.3162341	21	12 18.3	18.3
69723 1998 HV_{129}	15.9	X	247.49999	145.42148	14.31335	2.31119	0.1723881	0.28119545	2.3074406	21	12 1.6	18.7
69724 1998 HF_{133}	15.9	X	108.67179	21.40733	161.29213	6.64054	0.0937934	0.26638628	2.3921853	21	7 29.6	19.1
69725 1998 HA_{137}	15.6	X	30.70204	284.42318	135.92209	6.93155	0.0816825	0.28534576	2.2850118	21	—	—
69726 1998 HR_{144}	15.3	X	243.19805	255.14037	216.75178	5.06426	0.0804880	0.27231900	2.3573139	21	10 2.8	18.4
69727 1998 HD_{145}	15.2	X	184.88799	124.90956	140.42584	8.10928	0.1240797	0.23892093	2.5721715	21	—	—
69728 1998 HG_{145}	15.8	X	273.29384	181.30434	94.61917	5.91386	0.0745841	0.25090591	2.4895955	21	2 18.3	19.2
69729 1998 HE_{149}	14.7	X	56.32497	232.59100	42.45205	12.21274	0.1785447	0.22284481	2.6944350	21	10 9.9	18.3
69730 1998 HF_{149}	15.5	X	188.81041	25.22457	239.17951	11.69396	0.1791124	0.23779516	2.5802832	21	—	—
69731 1998 HP_{152}	15.8	X	3.32999	95.69935	328.44110	2.44584	0.1350823	0.28176714	2.3043184	21	—	—
69732 1998 JE	14.6	X	82.06949	238.13688	99.75958	3.79907	0.0904360	0.27895491	2.3197795	21	—	—
69733 1998 JS_{2}	14.6	X	94.67705	77.48564	92.43072	7.77507	0.1963409	0.26173767	2.4204265	21	7 9.5	17.8
69734 1998 KF_{1}	15.2	X	68.43524	336.27517	208.14056	2.29498	0.1161129	0.25935822	2.4352079	21	6 9.9	17.9
69735 1998 KB_{7}	15.0	X	113.03940	342.14054	211.19467	6.14329	0.0561147	0.26404385	2.4063124	21	8 12.8	18.4
69736 1998 KT_{7}	15.6	X	106.74111	241.84204	63.57086	13.55971	0.2811920	0.23091819	2.6312611	21	—	—
69737 1998 KS_{12}	15.9	X	51.94947	327.03730	263.36213	2.26281	0.1334065	0.26230956	2.4169072	21	7 23.9	18.6
69738 1998 KL_{16}	15.5	X	178.63592	213.58165	59.51751	10.30758	0.1977783	0.23793294	2.5792870	21	—	—
69739 1998 KX_{19}	15.4	X	211.47941	24.46890	202.10597	12.87891	0.1033890	0.23787736	2.5796887	21	—	—
69740 1998 KK_{26}	15.0	X	205.87594	319.59661	281.50222	12.33736	0.1447926	0.23408490	2.6074768	21	—	—
69741 1998 KR_{43}	14.5	X	168.36636	177.72866	70.64381	25.03195	0.1443407	0.27670363	2.3323451	21	12 26.6	18.2
69742 1998 KD_{44}	14.8	X	30.30497	346.39842	249.77319	5.73272	0.0680299	0.25842997	2.4410357	21	6 16.6	17.3
69743 1998 KG_{53}	15.2	X	101.01085	88.16686	185.37768	14.84560	0.1527139	0.22787546	2.6546321	21	11 21.8	19.5
69744 1998 KM_{56}	15.7	X	153.29308	60.95877	184.40701	5.96714	0.2005461	0.23295495	2.6159017	21	12 4.2	20.1
69745 1998 KR_{57}	15.7	X	218.43221	150.77868	111.00306	6.81250	0.1373504	0.24198538	2.5504097	21	—	—
69746 1998 KC_{58}	15.3	X	167.84361	106.38626	151.50197	9.73223	0.1770698	0.23320696	2.6140169	21	12 30.7	19.7
69747 1998 KD_{58}	15.1	X	114.77808	195.85582	218.57024	15.08706	0.1134784	0.24399028	2.5364192	21	2 11.6	18.8
69748 1998 KG_{59}	15.1	X	266.40640	113.24623	109.41948	15.09071	0.1352189	0.24463147	2.5319853	21	—	—
69749 1998 MZ_{1}	14.9	X	28.72294	169.12615	92.44597	9.16515	0.3029612	0.21528301	2.7571657	21	8 28.0	17.7
69750 1998 MA_{5}	15.4	X	63.32501	66.99556	292.42322	4.23731	0.0617751	0.22826781	2.6515894	21	—	—
69751 1998 MV_{17}	15.6	X	190.02815	31.18842	156.05922	4.32409	0.1435996	0.23106840	2.6301207	21	10 30.5	19.7
69752 1998 ME_{32}	14.9	X	155.23396	18.42883	317.14132	3.35539	0.1796677	0.23644821	2.5900732	21	1 6.2	18.6
69753 1998 ML_{34}	15.1	X	34.25494	16.75174	307.71323	4.42689	0.1923883	0.22109094	2.7086657	21	11 9.6	18.5
69754 Mosesmendel	14.9	X	36.31150	270.71892	124.44863	12.22763	0.2011497	0.22792840	2.6542210	21	—	—
69755 1998 MQ_{40}	16.0	X	71.31229	65.57178	235.45013	3.63780	0.2437157	0.22368600	2.6876756	21	12 2.7	20.0
69756 1998 OY_{3}	15.8	X	294.80409	110.54340	253.38954	3.29220	0.0875802	0.21238277	2.7822097	21	7 13.2	19.5
69757 1998 OD_{7}	14.2	X	116.27999	227.29880	303.78163	7.75043	0.0869192	0.21035140	2.8000929	21	7 22.2	18.3
69758 1998 OP_{10}	14.1	X	173.69094	292.75565	313.78212	10.32763	0.1526600	0.22889972	2.6467071	21	12 23.9	18.4
69759 1998 OT_{10}	14.6	X	255.55732	102.68454	305.89905	3.31547	0.0643161	0.21191146	2.7863334	21	7 24.1	18.5
69760 1998 PR	14.5	X	309.44587	56.74099	333.91292	4.24755	0.0646460	0.21490605	2.7603890	21	9 12.8	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69761 1998 QM_4	14.6	X	138.24556	261.58812	48.54892	15.62601	0.1597012	0.23025922	2.6362789	21	—	—
69762 1998 QS_5	14.6	X	340.66758	57.26476	337.76248	6.69312	0.2265453	0.21760900	2.7374833	21	11 8.9	17.1
69763 1998 QH_9	15.0	X	23.88166	163.23133	156.45239	15.59585	0.2460216	0.21864070	2.7288650	21	11 1.8	18.3
69764 1998 QS_{10}	14.7	X	130.78325	132.13315	142.64947	12.21058	0.1727258	0.22735384	2.6586909	21	12 19.6	19.3
69765 1998 QN_{12}	14.6	X	48.90089	163.80798	197.33517	4.68302	0.2358459	0.22398125	2.6853131	21	—	—
69766 1998 QZ_{19}	14.9	X	353.50242	160.31777	188.78880	5.08062	0.0719442	0.21647390	2.7470445	21	9 25.1	18.1
69767 1998 QA_{20}	14.0	X	52.39896	81.13437	304.32041	11.39737	0.2164498	0.22595788	2.6696299	21	—	—
69768 1998 QF_{24}	14.7	X	319.98858	94.94816	297.21097	6.73998	0.1414461	0.21600001	2.7510609	21	9 21.9	17.9
69769 1998 QM_{24}	15.3	X	283.34775	207.41145	170.27960	7.95479	0.2396408	0.20987863	2.8042964	21	6 22.5	19.4
69770 1998 QN_{26}	14.5	X	86.36349	51.20022	328.50597	9.61652	0.2446948	0.23097603	2.6308218	21	—	—
69771 1998 QT_{32}	14.5	X	240.39047	141.08445	232.28027	1.06740	0.0824938	0.20535853	2.8452966	21	5 18.1	18.5
69772 1998 QU_{32}	14.6	X	52.05381	300.60825	329.07144	12.30806	0.1377614	0.21535735	2.7565312	21	9 12.4	18.3
69773 1998 QT_{34}	14.9	X	55.70928	9.77483	44.80169	4.51314	0.2187350	0.22940521	2.6428176	21	—	—
69774 1998 QN_{41}	14.3	X	85.02630	167.59715	334.77692	1.57733	0.0193686	0.20212300	2.8755807	21	4 24.9	18.3
69775 1998 QK_{46}	14.3	X	79.73811	187.47814	156.23611	14.49215	0.2347599	0.18157515	3.0886244	21	—	—
69776 1998 QB_{49}	14.6	X	131.60404	103.25850	158.79279	16.66201	0.1447798	0.22363442	2.6880888	21	12 5.9	19.2
69777 1998 QJ_{49}	14.1	X	81.15646	87.27406	155.90396	25.25039	0.1141471	0.21469044	2.7622368	21	9 17.5	18.0
69778 1998 QM_{53}	14.0	X	81.32815	73.54971	342.35173	9.27798	0.0861502	0.18769636	3.0211026	21	1 15.0	18.1
69779 1998 QZ_{53}	15.2	X	2.76392	278.50771	19.70517	8.27222	0.2742019	0.21322537	2.7748752	21	8 14.4	17.4
69780 1998 QG_{55}	14.7	X	331.28821	59.86182	347.51307	9.92775	0.3369232	0.21499989	2.7595857	21	10 30.2	16.4
69781 1998 QL_{59}	14.9	X	83.15627	238.52666	359.61035	7.76158	0.2122148	0.21448950	2.7639617	21	9 23.9	18.8
69782 1998 QF_{60}	14.7	X	278.68405	131.93956	150.00572	2.54258	0.0424552	0.19798170	2.9155423	21	3 14.8	18.8
69783 1998 QC_{67}	14.6	X	353.77959	86.18264	215.93384	11.97298	0.1402577	0.21211376	2.7845615	21	7 17.7	17.9
69784 1998 QP_{70}	14.8	X	48.45408	139.57598	219.15473	12.01711	0.1850716	0.22306233	2.6926830	21	—	—
69785 1998 QU_{71}	14.5	X	90.69953	146.72566	274.24439	9.58956	0.1761967	0.23401441	2.6080004	21	1 31.9	17.6
69786 1998 QS_{77}	14.5	X	135.48622	111.63483	285.23371	9.04345	0.0880615	0.19329929	2.9624376	21	2 21.3	19.0
69787 1998 QH_{80}	15.1	X	32.50760	118.52151	194.68877	13.17899	0.3298931	0.21915086	2.7246283	21	11 17.3	18.6
69788 1998 QY_{85}	14.9	X	44.89409	127.80632	286.54620	11.10274	0.2370800	0.22664443	2.6642359	21	—	—
69789 1998 QS_{87}	14.4	X	130.89993	67.79470	219.70875	15.44954	0.2862407	0.22731189	2.6590180	21	—	—
69790 1998 QM_{88}	15.0	X	175.24982	203.66024	224.37223	10.47152	0.2654630	0.20083269	2.8878842	21	5 21.2	20.1
69791 1998 QG_{89}	14.6	X	134.56703	75.38166	277.19239	12.78785	0.1481213	0.23166288	2.6256192	21	1 1.3	18.2
69792 1998 QS_{96}	14.9	X	280.51758	33.33675	269.11004	7.22248	0.2985343	0.20281627	2.8690241	21	3 6.9	19.8
69793 1998 QV_{96}	14.4	X	122.79680	107.95828	291.75470	11.49627	0.0545736	0.19242268	2.9714280	21	2 6.8	18.6
69794 1998 QM_{104}	14.7	X	162.45776	10.18234	11.26881	16.80247	0.0852895	0.19487512	2.9464458	21	3 11.7	19.2
69795 1998 RA_3	14.9	X	181.30979	238.77314	177.60557	1.92407	0.0743052	0.20142803	2.8821911	21	5 8.6	19.1
69796 1998 RV_5	14.4	X	80.74749	34.44803	34.91950	11.03862	0.1295727	0.18933971	3.0035964	21	2 7.9	18.4
69797 1998 RF_6	14.5	X	9.32037	193.21652	166.18423	6.31560	0.0444811	0.21906130	2.7253709	21	11 2.2	18.0
69798 1998 RU_{11}	14.5	X	46.91700	246.06396	182.34160	9.46298	0.1032075	0.18472171	3.0534496	21	—	—
69799 1998 RD_{12}	15.6	X	359.79595	194.08239	151.49863	0.97150	0.1077666	0.21800274	2.7341862	21	10 3.3	18.5
69800 1998 RD_{13}	14.5	X	211.23482	169.81353	179.86819	1.84964	0.0693535	0.19647448	2.9304341	21	3 19.1	18.8
69801 1998 RS_{14}	15.1	X	84.68138	58.87354	4.17663	8.97228	0.1438490	0.18861421	3.0112936	21	2 6.1	19.0
69802 1998 RX_{15}	14.9	X	247.43823	64.73411	297.77284	0.95277	0.0826881	0.20332851	2.8642034	21	5 12.1	19.1
69803 1998 RL_{20}	13.9	X	258.73273	320.41714	102.15050	7.45429	0.0570542	0.21427661	2.7657922	21	8 19.1	17.7
69804 1998 RV_{22}	14.9	X	356.17342	159.78047	150.87438	9.53171	0.1458465	0.21273072	2.7791751	21	8 6.9	17.8
69805 1998 RF_{23}	14.9	X	320.83639	265.37117	123.27642	6.24693	0.1120304	0.21575049	2.7531816	21	9 27.9	18.1
69806 1998 RC_{24}	15.1	X	284.08920	251.46384	172.49057	4.07221	0.0996714	0.21512990	2.7584738	21	9 16.3	18.5
69807 1998 RE_{24}	15.1	X	272.44965	33.20794	1.20591	3.97450	0.1110229	0.21074205	2.7966316	21	7 21.2	18.9
69808 1998 RO_{29}	15.2	X	329.60437	338.07236	359.06372	12.82569	0.1533592	0.21169598	2.7882238	21	7 29.6	18.4
69809 1998 RM_{33}	14.6	X	49.81519	271.30182	34.28974	5.19832	0.1498061	0.21845636	2.7303998	21	10 31.9	18.3
69810 1998 RF_{42}	14.8	X	282.62555	250.02041	194.98264	7.63338	0.2551335	0.21387557	2.7692485	21	9 16.3	18.2
69811 1998 RC_{47}	14.9	X	186.70355	212.77713	192.96700	16.55131	0.0872776	0.20063730	2.8897588	21	5 2.6	19.4
69812 1998 RV_{47}	14.8	X	171.60496	137.46499	205.37867	9.28811	0.0683361	0.19182697	2.9775765	21	1 26.3	19.4
69813 1998 RB_{50}	14.8	X	289.12658	337.44557	43.39756	4.12279	0.1050248	0.21008723	2.8024397	21	7 27.1	18.4
69814 1998 RD_{50}	14.0	X	65.04621	238.44859	5.95773	12.75331	0.0892126	0.21139137	2.7909017	21	8 27.9	17.8
69815 1998 RC_{54}	14.4	X	35.15943	78.24619	324.85182	7.95303	0.1176586	0.18124306	3.0923961	21	—	—
69816 1998 RS_{57}	14.2	X	77.00812	226.65017	13.93696	9.14543	0.1020243	0.21226728	2.7832188	21	9 7.9	18.0
69817 1998 RB_{58}	15.2	X	216.49455	236.80590	161.34343	2.65715	0.0056659	0.20381617	2.8596329	21	5 28.6	19.1
69818 1998 RP_{61}	14.6	X	306.50952	79.96065	348.15112	7.60115	0.3104771	0.21366756	2.7710455	21	9 25.6	17.0
69819 1998 RK_{62}	14.7	X	311.07621	197.50438	175.17555	13.54886	0.1866042	0.21135519	2.7912203	21	8 3.4	18.2
69820 1998 RR_{63}	14.7	X	299.68463	273.04535	147.04809	6.37559	0.0390841	0.21580619	2.7527078	21	10 13.9	18.3
69821 1998 RA_{65}	15.0	X	222.84974	181.73023	183.08338	1.86345	0.0692191	0.20015117	2.8944360	21	4 19.3	19.2
69822 1998 RD_{65}	14.5	X	130.77257	77.56111	292.98408	0.97432	0.0730258	0.18944249	3.0025100	21	1 17.7	18.6
69823 1998 RQ_{68}	14.7	X	235.52044	32.38399	339.53976	1.42464	0.0946976	0.20218829	2.8749616	21	5 9.4	18.9
69824 1998 RO_{70}	14.6	X	285.48845	36.88173	32.63109	9.39730	0.1455765	0.21357198	2.7718722	21	9 22.4	18.1
69825 1998 RU_{71}	14.9	X	186.32270	357.88482	39.63635	2.70207	0.1144467	0.19907083	2.9048985	21	4 20.9	19.4
69826 1998 RE_{72}	14.4	X	223.04778	124.05274	175.51785	10.40959	0.0669481	0.19263041	2.9692914	21	1 29.3	19.0
69827 1998 RR_{72}	14.2	X	213.95520	237.57531	146.65958	2.64782	0.1115312	0.20077533	2.8884342	21	5 2.7	18.7
69828 1998 RX_{73}	14.8	X	84.83197	164.30314	224.57934	6.46074	0.2192542	0.18473342	3.0533205	21	1 2.5	18.6
69829 1998 RS_{74}	14.4	X	292.57725	71.70557	354.29888	8.82825	0.1447086	0.21324775	2.7746811	21	9 24.2	17.6
69830 1998 RA_{75}	14.5	X	43.16068	81.10321	3.99616	11.28919	0.1484778	0.22874704	2.6478847	21	—	—
69831 1998 RO_{75}	14.6	X	293.96679	292.52588	25.47669	6.15870	0.0627893	0.20320333	2.8653796	21	5 14.3	18.6
69832 1998 RA_{76}	15.4	X	327.89190	305.32158	78.61886	2.23185	0.1497885	0.21400316	2.7681477	21	9 29.6	18.3
69833 1998 RO_{76}	14.6	X	152.15534	286.35784	20.34417	11.20583	0.1159913	0.18542608	3.0457120	21	—	—
69834 1998 RH_{77}	14.1	X	68.28191	291.62349	159.98170	9.85142	0.0818560	0.19056732	2.9906833	21	2 6.0	17.9
69835 1998 RV_{78}	14.6	X	324.36115	345.86278	35.35218	10.74356	0.0664231	0.21365108	2.7711880	21	9 27.4	18.1
69836 1998 SZ_2	14.1	X	340.93418	239.69403	97.13269	13.03612	0.1278701	0.21165255	2.7886053	21	8 20.8	17.3
69837 1998 SE_4	13.6	X	145.73878	13.21454	5.97654	10.78448	0.1109314	0.19141558	2.9818413	21	2 21.2	18.1
69838 1998 SX_5	14.5	X	272.33020	226.32374	167.28791	6.83796	0.0469117	0.21112412	2.7932565	21	7 27.5	18.3
69839 1998 SJ_{10}	15.1	X	85.76860	208.80190	204.32227	1.16916	0.1809757	0.18521945	3.0479768	21	1 28.9	18.9
69840 1998 SM_{10}	14.1	X	46.86323	249.51411	237.33954	12.98194	0.1557982	0.19284587	2.9670793	21	2 19.2	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69841 1998 SA_{12}	14.7	X	349.45156	278.84874	205.74350	8.26873	0.1522283	0.18176043	3.0865251	21	—	—
69842 1998 SE_{20}	14.9	X	105.80978	211.14000	176.97668	8.42588	0.1102908	0.18893331	3.0079020	21	1 12.9	19.1
69843 1998 SL_{22}	15.0	X	202.67161	113.04355	248.65726	0.92924	0.0833815	0.19782622	2.9170698	21	3 24.0	19.5
69844 1998 SY_{22}	14.7	X	190.24890	135.78727	207.04927	10.24902	0.1070692	0.19195329	2.9762702	21	2 15.4	19.5
69845 1998 SU_{26}	13.5	X	10.34264	143.03408	307.71525	16.65137	0.1224714	0.17615155	3.1517015	21	—	—
69846 1998 SO_{32}	15.2	X	248.39160	290.86506	165.67390	5.97975	0.0546258	0.21525774	2.7573815	21	9 18.3	18.9
69847 1998 SD_{35}	16.7	X	29.83054	68.82901	178.51649	20.25411	0.0409683	0.37884792	1.8915861	21	6 28.1	18.9
69848 1998 SQ_{35}	13.4	X	290.18678	156.64554	39.35637	15.96351	0.0937358	0.18332327	3.0689583	21	—	—
69849 1998 SZ_{38}	16.0	X	294.37956	77.57133	220.45096	0.82531	0.2121160	0.20358673	2.8617811	21	3 29.0	19.9
69850 1998 SN_{40}	14.6	X	323.23897	302.25158	5.40776	6.61654	0.0462387	0.20609602	2.8385049	21	6 13.4	18.4
69851 1998 SY_{45}	14.4	X	309.58935	215.05470	207.60109	10.23016	0.0582005	0.17124885	3.2115716	21	10 20.3	18.7
69852 1998 SH_{51}	15.4	X	144.69439	34.45194	236.14496	0.13932	0.1598878	0.17849695	3.1240323	21	12 18.5	20.6
69853 1998 SP_{53}	14.0	X	262.79641	56.56522	308.78901	4.56736	0.1377320	0.20563990	2.8427006	21	5 26.2	18.1
69854 1998 SS_{54}	13.6	X	330.55364	142.62388	1.24619	15.91371	0.0338954	0.18640684	3.0350195	21	—	—
69855 1998 SX_{55}	14.5	X	83.08240	112.02319	352.03769	13.41508	0.1696856	0.23670368	2.5882092	21	3 19.6	17.4
69856 1998 SZ_{56}	14.8	X	143.29707	288.01759	123.48363	3.06081	0.0776212	0.19605510	2.9346115	21	3 23.3	19.1
69857 1998 SG_{57}	14.4	X	203.51912	14.37242	38.96863	2.51050	0.0653557	0.20358949	2.8617552	21	5 28.5	18.5
69858 1998 SM_{57}	14.3	X	153.99740	336.28864	107.91875	3.08481	0.0916819	0.20082512	2.8879568	21	5 15.3	18.7
69859 1998 SQ_{57}	14.3	X	354.39147	6.48016	84.71998	3.28439	0.1463888	0.18190429	3.0848976	21	—	—
69860 1998 SX_{57}	15.0	X	292.27865	258.24875	117.19272	3.70918	0.0712900	0.20943918	2.8082177	21	7 28.3	18.5
69861 1998 SP_{58}	14.4	X	192.36159	155.52540	174.67725	9.43132	0.0722443	0.19236937	2.9719769	21	2 3.0	19.0
69862 1998 SB_{59}	14.8	X	128.53038	201.39807	167.67204	4.21122	0.1354285	0.18851684	3.0123305	21	1 20.9	19.2
69863 1998 SD_{59}	14.3	X	190.30630	207.19318	164.15787	2.27481	0.0977949	0.19639308	2.9312437	21	3 24.2	18.8
69864 1998 SG_{59}	15.0	X	280.77458	226.29045	179.99739	10.53992	0.1424444	0.20997884	2.8034040	21	8 9.2	18.8
69865 1998 SO_{60}	15.0	X	262.66508	206.72118	128.54682	2.35724	0.1276231	0.20199807	2.8767662	21	4 21.2	19.2
69866 1998 ST_{60}	14.3	X	258.00585	273.64777	71.47825	3.06115	0.0723677	0.20209688	2.8758284	21	5 4.5	18.5
69867 1998 SA_{61}	14.2	X	188.88281	358.56525	42.58771	2.69059	0.0697714	0.19998472	2.8960419	21	4 27.4	18.4
69868 1998 SU_{61}	14.2	X	95.85674	6.21342	339.67574	10.38850	0.0993240	0.18205715	3.0831706	21	—	—
69869 Haining	14.3	X	14.90950	61.83742	12.02505	12.43513	0.1548423	0.18068649	3.0987432	21	—	—
69870 Fizeau	13.7	X	327.17851	282.07677	187.54291	21.58138	0.2886147	0.17672192	3.1449163	21	—	—
69871 1998 SW_{64}	14.7	X	88.09894	166.10122	167.45774	8.98866	0.1477605	0.17895139	3.1187412	21	—	—
69872 1998 SY_{70}	14.2	X	347.49471	327.57848	180.84201	9.27993	0.0327307	0.18669630	3.0318817	21	—	—
69873 1998 SB_{71}	13.3	X	252.68995	234.11787	33.94425	10.69316	0.0493488	0.19059826	2.9903597	21	1 30.5	17.8
69874 1998 SQ_{73}	14.2	X	167.27583	241.94775	33.33630	14.59057	0.1086893	0.18200982	3.0837051	21	—	—
69875 1998 SB_{74}	14.9	X	15.37514	310.76562	129.41946	3.58550	0.1590382	0.18105887	3.0944930	21	—	—
69876 1998 SV_{74}	14.2	X	16.47895	15.47612	54.30696	5.97514	0.1423557	0.18013253	3.1050931	21	—	—
69877 1998 SU_{79}	15.1	X	131.48642	6.05994	20.15152	2.11977	0.1098518	0.19159797	2.9799486	21	2 11.4	19.4
69878 1998 SJ_{81}	15.3	X	274.17603	12.47112	28.98971	3.01522	0.0810242	0.21011439	2.8021982	21	8 6.7	19.0
69879 1998 SN_{81}	14.9	X	347.00355	308.72694	8.26933	2.76740	0.0820889	0.21019957	2.8014411	21	8 1.5	18.3
69880 1998 SQ_{81}	14.4	X	201.06805	252.56166	163.20088	2.31333	0.0612357	0.20344720	2.8630894	21	5 29.7	18.6
69881 1998 SL_{91}	14.4	X	95.94065	98.04850	343.31584	10.95172	0.0706204	0.19243425	2.9713089	21	3 2.0	18.4
69882 1998 SP_{92}	14.1	X	142.61425	270.05053	5.57980	16.27143	0.1863210	0.18147351	3.0897776	21	12 23.1	19.6
69883 1998 SK_{98}	14.6	X	39.46971	218.20575	181.95379	11.12040	0.0462523	0.18139342	3.0906871	21	—	—
69884 1998 SF_{99}	14.5	X	53.47130	85.00526	7.12018	16.39381	0.1426402	0.18777827	3.0202240	21	1 29.1	18.3
69885 1998 SD_{100}	13.6	X	183.40269	169.05575	0.22396	22.39081	0.0370887	0.17035749	3.2227644	21	9 27.7	18.3
69886 1998 SH_{100}	13.9	X	278.34916	267.11852	345.47996	9.53749	0.0582688	0.19257832	2.9698268	21	2 7.0	18.1
69887 1998 SJ_{100}	14.4	X	257.66022	187.68919	353.27870	12.85981	0.0965616	0.22375854	2.6870947	21	—	—
69888 1998 SB_{102}	15.1	X	159.73907	223.12368	186.60990	10.16156	0.1333633	0.19641507	2.9310250	21	4 11.7	19.7
69889 1998 SU_{110}	16.2	X	318.87858	206.73224	226.32457	1.91995	0.1059001	0.26078851	2.4262958	21	12 3.4	18.4
69890 1998 SZ_{110}	15.8	X	205.78150	66.62255	268.06562	1.56391	0.1721154	0.23790179	2.5795121	21	2 18.0	20.0
69891 1998 SF_{112}	14.7	X	242.10160	215.80253	101.76058	3.14443	0.0973211	0.19692925	2.9259208	21	3 12.5	19.1
69892 1998 SF_{114}	13.6	X	167.95785	310.48550	37.71394	9.90934	0.0855101	0.19095509	2.9866333	21	2 5.6	18.2
69893 1998 SL_{118}	15.3	X	94.66798	56.40096	0.16099	1.36454	0.2448761	0.18815008	3.0162439	21	2 23.7	19.4
69894 1998 SD_{125}	14.1	X	69.83263	64.82638	30.74986	11.24292	0.0821813	0.19029559	2.9935296	21	2 19.8	18.1
69895 1998 SA_{126}	14.5	X	119.99703	291.09755	102.80602	4.82494	0.0963057	0.18990036	2.9976817	21	2 6.2	18.6
69896 1998 SE_{130}	14.0	X	272.89427	99.44374	191.10652	1.87665	0.0440944	0.19598976	2.9352637	21	3 17.8	18.0
69897 1998 SN_{131}	14.0	X	274.82121	120.83954	340.05539	6.90872	0.0781339	0.21488535	2.7605663	21	10 22.2	17.8
69898 1998 SX_{134}	14.3	X	348.17416	350.79070	25.55127	9.75472	0.1673956	0.21494670	2.7600409	21	10 27.2	17.0
69899 1998 SZ_{137}	13.8	X	46.06404	41.18040	24.71832	12.66618	0.1193860	0.18338345	3.0682868	21	—	—
69900 1998 SN_{138}	14.4	X	351.83080	100.37151	13.80843	4.19756	0.2166695	0.18107254	3.0943373	21	—	—
69901 1998 SA_{141}	14.9	X	203.23258	327.83754	5.47134	1.56797	0.0867712	0.19250053	2.9706268	21	2 20.1	19.4
69902 1998 SS_{141}	14.6	X	62.24422	254.97724	180.19856	9.76578	0.0667257	0.18653987	3.0335763	21	1 7.5	18.7
69903 1998 SU_{142}	14.5	X	101.96666	7.44359	16.98592	11.39815	0.1252395	0.18554182	3.0444453	21	1 9.8	18.8
69904 1998 SH_{143}	13.8	X	172.56378	128.72750	87.06588	6.39547	0.1098598	0.17476726	3.1683221	21	11 11.9	18.9
69905 1998 SA_{146}	14.5	X	1.78632	270.47232	204.37501	8.90601	0.0474328	0.18356143	3.0663032	21	—	—
69906 1998 SU_{146}	13.9	X	33.47620	232.17800	195.49083	10.72897	0.0552147	0.18183959	3.0856293	21	—	—
69907 1998 SW_{146}	14.7	X	97.87757	311.02527	57.62510	2.28782	0.1904926	0.18333881	3.0687849	21	—	—
69908 1998 SU_{153}	14.9	X	211.55453	55.14023	59.05575	5.20165	0.0219031	0.21108276	2.7936213	21	8 31.9	18.8
69909 1998 SS_{154}	15.2	X	241.20708	113.95222	203.08468	15.53562	0.2251366	0.19753167	2.9199689	21	2 26.1	20.3
69910 1998 SE_{155}	15.3	X	53.06036	356.32938	55.26581	0.70582	0.2070972	0.18304027	3.0721208	21	—	—
69911 1998 SF_{155}	14.2	X	83.09152	7.73656	18.88489	12.34810	0.0497768	0.18461715	3.0546024	21	—	—
69912 1998 SE_{156}	15.0	X	219.44333	334.80735	22.65365	2.01446	0.0376725	0.19791727	2.9161750	21	4 7.9	19.1
69913 1998 SF_{157}	14.0	X	50.08810	10.16601	16.57020	16.39838	0.0951640	0.18026357	3.1035880	21	—	—
69914 1998 ST_{158}	14.4	X	52.13081	61.72326	4.61700	7.18225	0.1654815	0.18479535	3.0526384	21	—	—
69915 1998 SU_{165}	17.1	X	309.85390	196.90988	154.15180	23.85166	0.0982259	0.38046073	1.8862366	21	7 20.7	18.9
69916 1998 SV_{166}	15.3	X	159.56459	188.45261	344.76130	6.37657	0.0696159	0.21340338	2.7733320	21	9 10.6	19.4
69917 1998 TF	13.4	X	297.02492	122.55235	16.62050	7.88305	0.1781401	0.22011731	2.7166473	21	—	—
69918 1998 TP_{6}	14.9	X	318.70017	207.58161	126.14222	10.32207	0.2970049	0.21136138	2.7911657	21	6 7.1	18.0
69919 1998 TK_{9}	13.7	X	165.83558	182.63498	31.78251	5.60156	0.1048001	0.17274625	3.1929856	21	11 1.9	18.8
69920 1998 TQ_{9}	14.8	X	45.36135	221.04515	208.51273	5.28936	0.1966012	0.18278641	3.0749645	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
69921 1998 TM_{19}	14.7	X	72.43138	222.16972	244.72698	7.66231	0.0509703	0.19114623	2.9846419	21	2 24.6	18.9
69922 1998 TF_{20}	13.6	X	98.57872	226.58506	30.00186	14.35343	0.0974851	0.17034377	3.2229374	21	10 16.7	18.3
69923 1998 TR_{22}	15.4	X	72.71903	242.05086	233.06217	1.86892	0.1522832	0.19008809	2.9957078	21	3 23.9	19.2
69924 1998 TX_{22}	14.5	X	52.09642	33.42694	41.07433	10.35471	0.1208932	0.18352060	3.0667580	21	—	—
69925 1998 TU_{30}	13.2	X	308.62161	100.02404	30.93385	11.40444	0.1245973	0.17716647	3.1396533	21	—	—
69926 1998 TZ_{31}	15.1	X	261.59268	112.73444	286.30213	3.80810	0.1863843	0.20597257	2.8396389	21	7 2.1	19.3
69927 1998 TN_{32}	14.3	X	80.90413	176.99727	220.65137	11.11395	0.1583340	0.18414609	3.0598095	21	—	—
69928 1998 TY_{32}	14.3	X	286.50279	57.72952	37.76843	9.37616	0.1218790	0.21432010	2.7654180	21	10 28.9	17.6
69929 1998 TA_{33}	14.9	X	56.89057	238.08586	162.52085	1.27210	0.1671322	0.18124909	3.0923275	21	—	—
69930 1998 TQ_{33}	13.1	X	209.50869	136.73516	41.96973	14.62344	0.1441866	0.21463659	2.7626988	21	11 4.7	17.2
69931 1998 UA	14.0	X	150.14814	329.60447	225.44832	34.37642	0.1474229	0.21534431	2.7566425	21	9 24.6	18.9
69932 1998 UK	14.9	X	178.85126	59.17749	219.27719	12.12580	0.1428817	0.18397944	3.0616569	21	—	—
69933 1998 UA_{7}	13.4	X	63.65777	271.78422	92.95745	22.75635	0.0613774	0.17586735	3.1550959	21	—	—
69934 1998 US_{13}	15.1	X	168.02481	347.93917	60.68521	3.04886	0.1123469	0.19550284	2.9401354	21	4 17.3	19.5
69935 1998 UA_{17}	15.6	X	353.73694	31.83066	179.37090	22.09965	0.0439951	0.36551024	1.9373274	21	2 16.7	17.6
69936 1998 UD_{17}	14.1	X	3.48577	202.12446	266.24817	8.27779	0.0549754	0.18352617	3.0666959	21	—	—
69937 1998 UZ_{21}	14.4	X	74.68548	256.59008	53.40445	10.05532	0.1537106	0.21943571	2.7222699	21	12 5.4	18.4
69938 1998 US_{23}	14.9	X	287.60845	334.73443	51.79981	10.30745	0.1346974	0.20871493	2.8147103	21	7 29.8	18.7
69939 1998 UQ_{25}	13.8	X	226.41216	176.37667	124.13230	6.00101	0.1190360	0.19066973	2.9896123	21	2 3.6	18.6
69940 1998 UD_{26}	14.4	X	219.14488	104.98984	62.43513	13.98198	0.1491132	0.21413322	2.7670267	21	11 3.3	18.6
69941 1998 UL_{30}	13.9	X	143.98580	235.06281	92.89042	12.14764	0.0685945	0.18271759	3.0757366	21	—	—
69942 1998 UC_{31}	14.0	X	316.93785	62.44125	5.75968	9.11718	0.1971614	0.21413459	2.7670149	21	11 2.7	16.7
69943 1998 UE_{34}	14.0	X	51.88267	172.18966	245.59954	9.42716	0.0386183	0.18375911	3.0641038	21	—	—
69944 1998 UM_{35}	14.9	X	344.28634	55.85570	230.51929	2.05772	0.1876586	0.20563640	2.8427329	21	6 5.2	17.5
69945 1998 UD_{38}	14.5	X	349.89211	304.28160	54.17394	9.93177	0.1917719	0.21354235	2.7721286	21	10 11.1	17.2
69946 1998 UU_{40}	15.3	X	297.15362	90.91747	266.66369	1.05268	0.1728162	0.20691431	2.8310163	21	6 24.9	19.0
69947 1998 UZ_{44}	14.2	X	246.96046	327.94869	188.51673	9.34224	0.0575008	0.17466905	3.1695097	21	11 25.4	18.8
69948 1998 VD_{2}	14.6	X	90.92811	206.93074	237.53298	1.31970	0.1359751	0.18856171	3.0118526	21	3 8.5	18.5
69949 1998 VN_{4}	14.0	X	336.67385	41.15368	47.33400	10.28836	0.0699472	0.17586792	3.1550891	21	12 29.4	18.2
69950 1998 VW_{4}	14.1	X	336.63087	70.90443	350.12308	8.30598	0.2173092	0.17066857	3.2188471	21	11 22.5	17.5
69951 1998 VK_{6}	15.0	X	304.01974	123.31433	314.03944	4.67462	0.1982752	0.21315355	2.7754986	21	10 20.6	18.1
69952 1998 VW_{12}	14.6	X	35.70534	264.03616	135.21684	1.98304	0.1862586	0.17837983	3.1253996	21	—	—
69953 1998 VO_{17}	14.7	X	338.04408	182.41564	222.94346	8.46957	0.1620482	0.21517409	2.7580961	21	11 18.5	17.5
69954 1998 VC_{19}	14.5	X	138.49467	176.34649	193.16565	2.82414	0.1057132	0.18759999	3.0221371	21	1 28.8	18.9
69955 1998 VK_{21}	13.8	X	276.65625	93.96671	35.12115	11.14215	0.1633444	0.17309880	3.1886487	21	11 11.7	18.1
69956 1998 VP_{26}	14.0	X	84.66617	9.12793	32.05020	9.77383	0.0999355	0.18384984	3.0630955	21	1 2.8	18.2
69957 1998 VM_{29}	14.5	X	305.50886	206.06634	238.72334	12.08827	0.1381707	0.21404227	2.7678105	21	11 11.9	17.7
69958 1998 VP_{29}	14.5	X	29.29942	126.73693	261.38270	5.75640	0.1327734	0.17518942	3.1632302	21	—	—
69959 1998 VM_{31}	14.1	X	127.23237	307.77361	64.68759	17.50861	0.2197638	0.18487778	3.0517309	21	2 9.5	19.1
69960 1998 VN_{31}	14.2	X	330.46857	202.51076	238.59292	6.53137	0.0411012	0.17609352	3.1523938	21	12 11.8	18.5
69961 Millosevich	16.0	X	125.85211	229.61239	263.15855	17.87220	0.0684823	0.37155650	1.9162528	21	6 5.3	17.7
69962 1998 VX_{34}	14.6	X	300.47895	209.59914	221.24207	8.35535	0.2728688	0.21126560	2.7920093	21	9 21.9	17.8
69963 1998 VP_{35}	14.0	X	323.08174	18.05648	68.38979	10.09790	0.1314983	0.21509560	2.7587671	21	12 15.9	16.9
69964 1998 VM_{36}	14.1	X	58.29704	133.34352	242.78342	10.42108	0.0797336	0.17742440	3.1366097	21	—	—
69965 1998 VN_{40}	15.2	X	185.30308	298.36055	89.49729	3.18462	0.1230347	0.19450571	2.9501752	21	4 10.1	19.8
69966 1998 VF_{46}	14.2	X	346.21731	205.21973	276.51543	12.75439	0.1370816	0.22390134	2.6859520	21	—	—
69967 1998 VS_{49}	14.8	X	357.40355	258.92443	235.52118	7.60320	0.0488754	0.18403280	3.0610650	21	—	—
69968 1998 VX_{51}	14.3	X	49.71945	324.51690	80.95258	17.40564	0.0967070	0.18005229	3.1060155	21	—	—
69969 1998 VX_{54}	13.7	X	71.55120	159.79134	261.49223	21.60587	0.1640919	0.18388325	3.0627245	21	1 11.3	17.6
69970 1998 WV	14.0	X	313.32924	1.93692	66.38628	11.77404	0.0976151	0.16801904	3.2525980	21	11 1.1	18.2
69971 Tanzi	13.3	X	169.40597	195.72979	298.28367	11.21794	0.2812587	0.19771059	2.9182070	21	8 2.6	18.7
69972 1998 WJ_{2}	13.9	X	347.91385	202.89837	276.67057	10.36227	0.0853600	0.17909751	3.1170446	21	—	—
69973 1998 WO_{4}	15.6	X	59.54092	353.15028	190.23781	22.94413	0.0138423	0.36953954	1.9232191	21	5 2.6	17.5
69974 1998 WH_{5}	14.0	X	320.64118	319.76353	175.01084	24.25402	0.1471303	0.17501238	3.1653631	21	—	—
69975 1998 WU_{5}	14.6	X	318.29738	149.09617	242.78847	12.74259	0.1957485	0.21178846	2.7874122	21	9 9.0	17.9
69976 1998 WD_{6}	14.2	X	81.21038	65.49673	14.19461	4.49080	0.1809177	0.18647190	3.0343135	21	2 26.2	18.0
69977 Saurodonati	14.4	X	317.58064	183.84566	310.52190	4.38888	0.1689806	0.17494541	3.1661709	21	—	—
69978 1998 WL_{10}	14.3	X	27.20585	254.17397	187.41103	4.37581	0.1420206	0.18059338	3.0998082	21	—	—
69979 1998 WJ_{14}	15.0	X	36.72455	250.62418	189.67134	0.64504	0.1490138	0.18126708	3.0921230	21	—	—
69980 1998 WP_{15}	13.0	X	307.18756	20.04082	73.87278	17.15217	0.0565913	0.17246961	3.1963990	21	11 26.2	17.2
69981 1998 WE_{16}	14.4	X	294.49701	18.04753	79.97234	6.61368	0.0944013	0.17112209	3.2131573	21	11 10.0	18.7
69982 1998 WY_{16}	14.6	X	111.18389	160.85978	230.99825	7.79113	0.1090285	0.18516284	3.0485980	21	1 23.6	19.0
69983 1998 WO_{17}	13.7	X	307.24275	224.27027	244.23288	20.75409	0.1166663	0.17338006	3.1851993	21	12 8.0	17.7
69984 1998 WG_{18}	14.2	X	78.67048	56.29820	39.22447	10.31625	0.0967097	0.18740307	3.0242539	21	3 6.1	18.3
69985 1998 WV_{22}	14.3	X	12.47674	347.53806	67.69269	10.44499	0.0623682	0.17573515	3.1566780	21	—	—
69986 1998 WW_{24}	8.3	X	51.58380	145.45878	233.97292	13.93762	0.2262077	0.00399345	39.3463028	21	12 26.4	23.8
69987 1998 WA_{25}	7.1	X	90.08215	210.10444	136.36754	1.04674	0.0246039	0.00356568	42.4333803	21	12 12.1	23.3
69988 1998 WA_{31}	7.4	X	47.53831	309.71981	20.61169	9.44094	0.4322486	0.00239352	55.3491956	21	11 28.6	24.2
69989 1998 WK_{31}	14.3	X	110.72930	121.87086	234.36824	9.89018	0.1655043	0.18216004	3.0820095	21	—	—
69990 1998 WU_{31}	8.1	X	54.94655	140.65707	237.17302	6.58272	0.1877524	0.00402400	39.1469028	21	12 25.1	23.7
69991 1998 WP_{32}	14.5	X	33.19273	290.40500	57.67834	4.87828	0.1434754	0.17167919	3.2062025	21	11 22.9	18.5
69992 1998 WC_{33}	13.5	X	64.86009	314.45326	72.03179	15.06675	0.1452900	0.17893822	3.1188942	21	—	—
69993 1998 WS_{37}	14.1	X	282.75307	56.82340	48.27274	7.04854	0.0954807	0.17141677	3.2094738	21	11 1.6	18.5
69994 1998 WT_{37}	14.7	X	51.83939	303.64607	50.03682	4.42006	0.0971979	0.17479191	3.1680242	21	12 17.5	19.1
69995 1998 WE_{38}	15.2	X	114.74525	241.51506	53.30454	7.07296	0.2339906	0.17711909	3.1402132	21	12 24.0	20.5
69996 1998 WV_{40}	14.1	X	181.25050	99.52430	220.20919	9.24421	0.0943604	0.18616140	3.0376866	21	1 12.3	18.9
69997 1998 WX_{40}	14.4	X	153.68781	9.51975	41.46410	16.19320	0.1349748	0.19290513	2.9664716	21	4 11.0	19.1
69998 1998 XD	14.9	X	155.61008	343.87647	107.39571	8.79216	0.2655914	0.19246455	2.9709970	21	6 4.4	20.2
69999 1998 XN	14.0	X	93.04468	283.31497	294.61209	9.21618	0.1173306	0.15940444	3.3687525	21	8 22.2	19.1
70000 1998 XX_{6}	14.8	X	74.87022	159.76176	161.44034	1.37304	0.1594737	0.17379699	3.1801032	21	12 13.1	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70001 1998 XB_7	14.6	X	197.55745	4.81883	230.57703	9.92985	0.0581315	0.17621464	3.1509492	21	12 30.5	19.4
70002 1998 XY_9	14.7	X	44.53167	312.26651	80.87695	2.37935	0.1875751	0.17793042	3.1306601	21	—	—
70003 1998 XV_{12}	14.1	X	230.22169	343.83192	111.93701	6.78772	0.0879912	0.16062569	3.3516555	21	8 19.5	19.1
70004 1998 XF_{26}	14.7	X	294.03997	349.04918	135.75269	1.60160	0.1074249	0.17408579	3.1765852	21	12 10.2	18.8
70005 1998 XN_{28}	12.6	X	80.29115	244.60964	52.34291	10.24729	0.0879303	0.16986635	3.2289735	21	11 11.5	17.4
70006 1998 XZ_{32}	13.8	X	185.08984	116.88617	4.33207	9.97227	0.1590443	0.20042081	2.8918394	21	8 4.8	18.6
70007 1998 XX_{40}	13.5	X	9.02370	124.51412	295.41108	12.93274	0.0956199	0.17371281	3.1811304	21	—	—
70008 1998 XA_{53}	12.7	X	52.74436	307.38248	100.22602	22.89306	0.0894663	0.17569085	3.1572086	21	—	—
70009 1998 XM_{53}	12.9	X	32.53852	144.91437	287.79881	20.44149	0.1548311	0.17668393	3.1453672	21	—	—
70010 1998 XO_{64}	13.9	X	38.92658	119.84005	263.71232	8.60729	0.2140740	0.17547668	3.1597771	21	—	—
70011 1998 XQ_{68}	14.4	X	121.97400	104.85713	296.42912	11.09926	0.1803720	0.18695444	3.0290901	21	2 23.5	19.1
70012 1998 XC_{78}	14.2	X	28.34125	222.61456	191.31753	12.47469	0.1885196	0.17708354	3.1406335	21	—	—
70013 1998 XZ_{81}	13.8	X	72.12863	284.67357	185.03058	10.86059	0.1342824	0.18654021	3.0335727	21	3 13.9	17.7
70014 1998 YL_3	14.2	X	318.97539	69.01608	9.46629	0.99373	0.1218502	0.16832373	3.2486717	21	11 17.4	18.2
70015 1998 YT_5	14.5	X	13.99116	66.75895	45.87038	2.05578	0.2305505	0.17782633	3.1318817	21	—	—
70016 1998 YJ_6	13.8	X	17.86889	244.81650	208.89534	25.79474	0.2151738	0.17747124	3.1360578	21	—	—
70017 1998 YL_9	14.2	X	22.32792	196.77264	266.93428	10.79128	0.1358417	0.17785472	3.1315483	21	—	—
70018 1998 YP_9	14.3	X	18.06173	242.81204	170.68567	4.76197	0.1207420	0.17565288	3.1576636	21	—	—
70019 1998 YE_{12}	13.4	X	243.53663	263.73917	99.81354	11.24095	0.1303132	0.19258088	2.9698005	21	5 9.3	18.1
70020 1998 YR_{29}	13.6	X	346.68342	117.56447	358.65511	14.17923	0.1057931	0.17269530	3.1936136	21	—	—
70021 1999 AB	13.8	X	334.49737	154.53837	292.14917	21.30844	0.0627252	0.17328588	3.1863533	21	12 25.2	18.1
70022 1999 AF_7	13.4	X	353.30228	160.88789	285.67390	12.79288	0.0302789	0.17026710	3.2239048	21	—	—
70023 1999 AT_{13}	14.4	X	35.07772	273.67221	114.82283	11.28511	0.0790726	0.17015865	3.2252746	21	—	—
70024 1999 AB_{22}	16.7	X	206.01710	29.55834	7.91680	19.99112	0.1002298	0.36838100	1.9272493	21	4 21.5	19.3
70025 1999 BH_2	16.0	X	191.46989	273.34580	159.51569	23.35175	0.1073745	0.37163081	1.9159974	21	6 7.6	19.1
70026 1999 BO_3	13.4	X	51.47708	49.43834	64.37241	19.25813	0.2320244	0.18060996	3.0996186	21	3 11.8	17.2
70027 1999 BQ_{15}	12.7	X	353.95703	70.06962	359.72777	24.75055	0.1872394	0.16894802	3.2406638	21	—	—
70028 1999 BM_{17}	13.9	X	34.64561	40.60892	13.97520	13.11208	0.1130860	0.17507623	3.1645934	21	—	—
70029 1999 CB	13.3	X	4.71581	359.53606	104.88052	12.28192	0.1637173	0.17377247	3.1804024	21	—	—
70030 Margaretmiller	15.1	X	69.32345	176.90297	319.96925	17.03130	0.0857602	0.36119243	1.9527364	21	3 2.3	16.7
70031 1999 CF_6	16.0	X	193.04772	324.52431	123.33251	24.71575	0.0894451	0.37075343	1.9190190	21	6 30.8	18.5
70032 1999 CZ_{13}	13.3	X	47.52657	129.87425	51.38259	10.29820	0.3093305	0.14741792	3.5489717	21	6 6.4	17.4
70033 1999 CO_{20}	14.1	X	28.82916	342.95713	74.47147	6.21700	0.1750867	0.17357270	3.1828421	21	—	—
70034 1999 CY_{35}	13.7	X	144.89111	333.91784	83.70008	11.98248	0.1512776	0.18586372	3.0409291	21	4 13.9	18.6
70035 1999 CO_{47}	13.9	X	50.88664	99.07975	336.77643	9.01887	0.2228913	0.17635043	3.1493314	21	1 8.6	17.2
70036 1999 CZ_{48}	14.0	X	129.49014	80.50742	356.03961	10.73704	0.1704050	0.18531205	3.0469613	21	4 14.5	18.8
70037 1999 CX_{64}	14.0	X	24.15077	199.14833	238.40301	12.68292	0.2141698	0.17429292	3.1740680	21	—	—
70038 1999 CF_{80}	13.5	X	109.49921	153.19571	288.77518	8.80260	0.2561299	0.18425785	3.0585721	21	4 9.5	18.3
70039 1999 CL_{85}	13.6	X	108.68349	302.43634	69.92847	14.92620	0.2716698	0.17955977	3.1116926	21	1 25.3	18.3
70040 1999 CY_{97}	14.0	X	88.45033	74.48399	0.59689	8.78987	0.0622670	0.17856392	3.1232511	21	2 16.3	18.3
70041 1999 CY_{117}	13.7	X	38.59355	215.74263	288.97161	9.43776	0.1715760	0.17930684	3.1146181	21	3 5.5	17.4
70042 1999 CZ_{122}	13.7	X	37.39147	108.83368	18.91358	14.91589	0.1891307	0.18011604	3.1052825	21	2 21.9	17.3
70043 1999 CJ_{127}	14.3	X	78.83515	35.45715	76.27312	13.32646	0.1710478	0.18204083	3.0833549	21	4 9.2	18.6
70044 1999 DD_2	17.0	X	279.48838	311.84949	326.56435	5.84835	0.2009265	0.31205697	2.1526832	21	2 4.6	20.3
70045 1999 DA_5	13.6	X	13.82047	258.64175	267.31143	21.21475	0.2929347	0.17863476	3.1224253	21	2 2.4	16.9
70046 1999 EN_3	17.1	X	310.37351	249.91488	35.34296	0.91585	0.1718396	0.31698359	2.1303201	21	3 24.3	19.5
70047 1999 FL_{10}	15.2	X	286.85708	72.42690	192.07954	7.63607	0.2567449	0.21827048	2.7319498	21	1 30.9	19.7
70048 1999 FV_{39}	13.6	X	49.04377	76.58684	348.37781	9.92412	0.2098947	0.17388018	3.1790888	21	—	—
70049 1999 GV_{35}	15.8	X	52.14185	304.58748	241.52979	3.88932	0.0778102	0.31518289	2.1384264	21	5 4.2	17.8
70050 1999 GG_{44}	13.1	X	358.81118	76.77581	64.69683	11.52121	0.0925764	0.17104919	3.2140703	21	1 3.3	17.4
70051 1999 GD_{46}	15.4	X	80.89179	226.02558	71.86407	10.37160	0.1898592	0.28492552	2.2872579	21	12 11.3	18.9
70052 1999 GS_{60}	16.2	X	255.36361	64.22274	193.14813	1.05705	0.1822737	0.30277702	2.1964472	21	—	—
70053 1999 HO_1	15.7	X	146.59772	260.89793	23.83333	22.07886	0.2588711	0.29047478	2.2580338	21	—	—
70054 1999 HZ_{10}	16.1	X	118.77845	248.96610	24.00156	3.43527	0.2324432	0.28615880	2.2806815	21	12 15.6	19.9
70055 1999 JN_6	14.8	X	326.04376	148.20878	219.20049	24.04173	0.2998211	0.27483796	2.3428882	21	8 7.8	17.2
70056 1999 JJ_8	15.1	X	95.38418	89.04119	209.19800	21.00725	0.2987003	0.28280692	2.2986668	21	12 27.7	19.6
70057 1999 JJ_{11}	16.6	X	163.33399	67.72295	272.55349	2.11679	0.1195290	0.29933823	2.2132370	21	1 1.1	19.3
70058 1999 JF_{13}	15.6	X	271.24185	106.09849	227.13995	3.82479	0.1479560	0.31084112	2.1582930	21	4 14.4	18.5
70059 1999 JD_{21}	16.1	X	277.94155	202.94859	36.41168	2.39738	0.1203155	0.30303725	2.1951896	21	—	—
70060 1999 JU_{27}	15.6	X	287.67302	192.10711	55.66204	6.50956	0.1127996	0.30470179	2.1871877	21	1 14.4	18.6
70061 1999 JO_{29}	16.3	X	188.41250	242.49346	45.68204	5.34898	0.1498335	0.29660192	2.2268283	21	—	—
70062 1999 JH_{40}	15.5	X	63.25173	250.58450	67.59486	3.88768	0.1842941	0.28326304	2.2961986	21	12 18.6	18.7
70063 1999 JT_{43}	15.1	X	7.99652	330.01369	10.16891	6.43793	0.1794108	0.27877050	2.3208025	21	10 28.5	17.2
70064 1999 JA_{44}	16.4	X	172.50690	278.19520	2.77258	4.89462	0.1900716	0.29238925	2.2481664	21	—	—
70065 1999 JM_{44}	16.3	X	179.71609	0.37353	255.94303	3.52801	0.1142340	0.29171445	2.2516321	21	—	—
70066 1999 JC_{45}	14.9	X	13.85138	269.72362	54.70517	7.51115	0.1551678	0.27802300	2.3249604	21	10 16.2	17.1
70067 1999 JE_{46}	15.8	X	52.51178	184.57080	101.01294	4.58459	0.2143316	0.27802377	2.3249561	21	10 29.9	18.7
70068 1999 JC_{48}	16.5	X	173.11575	243.93760	30.16397	6.70439	0.1961002	0.29180754	2.2511532	21	—	—
70069 1999 JT_{49}	15.5	X	185.82929	225.55796	68.33860	6.71935	0.1402000	0.29580124	2.2308450	21	—	—
70070 1999 JX_{50}	16.0	X	245.66606	205.19328	90.93094	4.59193	0.1249681	0.30362183	2.1923710	21	1 31.6	19.1
70071 1999 JG_{51}	16.3	X	277.33697	94.38013	197.97637	3.52497	0.2381770	0.26161137	2.4212054	21	2 21.9	20.2
70072 1999 JO_{52}	15.8	X	78.17305	258.90149	49.94661	7.60717	0.1329560	0.28413404	2.2915036	21	12 16.8	19.0
70073 1999 JN_{54}	15.5	X	54.07666	241.10788	21.93342	4.79912	0.2114772	0.27590607	2.3368377	21	9 29.1	18.2
70074 1999 JY_{54}	15.1	X	100.57085	232.92095	51.78777	6.44318	0.1319680	0.28419722	2.2911639	21	12 9.3	18.5
70075 1999 JK_{56}	16.4	X	112.06862	95.61607	160.59743	3.48938	0.1730750	0.28303928	2.2974086	21	11 18.2	19.9
70076 1999 JD_{57}	16.0	X	112.79509	170.77486	113.12094	5.94843	0.1567276	0.28556851	2.2838233	21	12 22.2	19.4
70077 1999 JJ_{59}	16.0	X	81.48751	110.86720	174.25542	5.15504	0.1539494	0.28157854	2.3053472	21	11 23.3	19.3
70078 1999 JU_{59}	15.8	X	169.17304	104.50001	207.29106	5.82481	0.1881443	0.29446287	2.2375995	21	—	—
70079 1999 JE_{61}	15.5	X	176.42556	169.43443	99.95797	7.46004	0.1285188	0.29165388	2.2519438	21	—	—
70080 1999 JN_{61}	15.2	X	168.05351	69.06827	220.02409	3.90806	0.1615695	0.29223719	2.2489462	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70081 1999 JX_{61}	15.2	X	187.51499	55.42576	264.82347	6.40860	0.1943702	0.29712128	2.2242326	21	1 8.2	18.5
70082 1999 JC_{63}	16.1	X	224.02768	39.41315	218.77238	3.23559	0.1614929	0.29619965	2.2288441	21	—	—
70083 1999 JA_{64}	16.1	X	285.09200	60.14656	186.76231	4.94583	0.1987419	0.30262915	2.1971627	21	1 1.6	19.5
70084 1999 JJ_{65}	15.2	X	13.20829	100.18025	200.43954	22.20169	0.1685525	0.27696921	2.3308539	21	8 30.9	17.8
70085 1999 JD_{68}	15.4	X	120.36750	189.33004	84.93241	7.24013	0.0963764	0.28777248	2.2721476	21	12 16.0	18.5
70086 1999 JV_{69}	15.8	X	249.14500	111.28828	125.95783	5.24867	0.0795161	0.29940796	2.2128934	21	—	—
70087 1999 JO_{70}	15.7	X	243.62061	178.37010	76.04032	6.44459	0.1033603	0.30009394	2.2095198	21	—	—
70088 1999 JF_{72}	16.0	X	343.93584	89.23653	130.01668	4.53229	0.0942432	0.30895844	2.1670520	21	2 21.6	18.1
70089 1999 JV_{75}	15.7	X	251.24884	227.17953	12.75414	3.48722	0.1397215	0.30018054	2.2090949	21	—	—
70090 1999 JN_{76}	15.4	X	86.09777	143.04507	108.60716	7.15793	0.1761214	0.27898463	2.3196148	21	10 20.3	18.8
70091 1999 JN_{93}	15.2	X	182.99268	169.68129	168.57795	8.46109	0.2105572	0.29985137	2.2107113	21	1 26.5	18.6
70092 1999 JH_{105}	16.2	X	100.08848	199.76963	111.66607	6.55395	0.1293604	0.28731844	2.2745407	21	—	—
70093 1999 JP_{106}	16.5	X	130.49077	226.71781	61.78507	2.88705	0.2594054	0.28814785	2.2701739	21	—	—
70094 1999 JS_{106}	15.8	X	138.36910	227.50000	69.97688	4.14791	0.1395260	0.29171809	2.2516133	21	—	—
70095 1999 JH_{118}	15.3	X	122.04784	272.62848	88.04722	7.01786	0.1845382	0.29493652	2.2352032	21	—	—
70096 1999 JC_{120}	15.6	X	236.22532	113.16448	218.64247	5.58722	0.0565977	0.30674045	2.1774859	21	3 8.7	18.4
70097 1999 JG_{120}	16.2	X	34.03474	39.63751	239.87690	1.89022	0.2047922	0.27462880	2.3440777	21	9 18.5	18.5
70098 1999 JR_{120}	15.9	X	341.72015	94.80052	74.55507	5.66101	0.0940294	0.30159991	2.2021585	21	—	—
70099 1999 JG_{121}	16.1	X	126.51297	81.89451	187.29093	5.14085	0.1366551	0.28543826	2.2845181	21	12 16.4	19.6
70100 1999 JO_{121}	15.9	X	165.08748	342.33694	230.69687	5.84362	0.1330832	0.28494032	2.2871788	21	11 12.9	19.0
70101 1999 JD_{122}	15.7	X	145.51057	166.80280	81.91471	5.18186	0.1257485	0.28577313	2.2827330	21	12 9.1	19.1
70102 1999 JE_{123}	16.4	X	310.13213	180.54618	81.40095	3.87050	0.1231123	0.30752971	2.1737587	21	3 1.7	18.9
70103 1999 JZ_{131}	16.7	X	82.82966	166.28752	88.65394	1.84984	0.2197519	0.27847547	2.3224413	21	10 22.9	20.2
70104 1999 JG_{138}	12.3	X	11.57103	89.34413	47.67165	22.96392	0.0891763	0.17453447	3.1711387	21	1 19.2	16.8
70105 1999 KE_{7}	16.4	X	235.19163	41.06206	176.68334	4.96736	0.1235162	0.29531092	2.2333136	21	—	—
70106 1999 KH_{10}	15.9	X	84.26754	235.38390	87.26354	6.03922	0.1826132	0.28572163	2.2830073	21	—	—
70107 1999 KS_{11}	15.8	X	128.91803	189.17163	56.11246	4.68782	0.1331736	0.28374080	2.2936203	21	11 18.1	19.2
70108 1999 KO_{12}	15.7	X	184.35803	263.12553	48.75929	5.52763	0.2006819	0.29596113	2.2300414	21	—	—
70109 1999 KN_{17}	15.6	X	130.50382	261.36851	77.94083	7.14296	0.1405679	0.29437022	2.2380690	21	—	—
70110 1999 LK	15.5	X	7.05647	184.44083	107.23875	13.15248	0.2966095	0.26959387	2.3731729	21	8 28.2	16.9
70111 1999 LM_{7}	15.8	X	328.40290	199.45251	129.62670	7.92156	0.3179764	0.26703506	2.3883090	21	6 12.6	17.7
70112 1999 LP_{9}	16.6	X	112.29784	109.97272	173.95915	5.49663	0.1661423	0.28477399	2.2880693	21	12 21.9	20.3
70113 1999 LY_{9}	16.0	X	154.59558	150.69728	187.31069	6.78199	0.1618692	0.29536423	2.2330449	21	—	—
70114 1999 LA_{13}	15.3	X	117.45153	192.50046	135.55046	7.05398	0.1937919	0.28877031	2.2669104	21	—	—
70115 1999 LP_{20}	15.8	X	348.86286	208.78530	79.43769	6.78237	0.1498417	0.26980160	2.3719546	21	6 18.1	17.6
70116 1999 LQ_{23}	15.9	X	143.87135	244.91672	85.50771	3.33258	0.2253109	0.29201731	2.2500750	21	—	—
70117 1999 LB_{24}	15.5	X	204.32363	92.70247	217.60809	4.87485	0.2180252	0.29749142	2.2223873	21	1 11.5	19.1
70118 1999 LM_{25}	15.7	X	139.85733	119.18792	151.78114	3.47650	0.1381140	0.28643733	2.2792028	21	12 31.2	19.2
70119 1999 LU_{28}	16.8	X	255.81610	13.83643	234.87568	1.99899	0.0285534	0.30007253	2.2096249	21	—	—
70120 1999 LL_{34}	15.5	X	199.07439	160.94206	96.30787	5.36232	0.1101818	0.29038736	2.2584869	21	—	—
70121 1999 LY_{34}	15.5	X	78.64171	190.97988	70.57847	4.95920	0.1373230	0.27625606	2.3348635	21	10 18.4	18.6
70122 1999 MX	15.9	X	84.89384	115.26018	184.41085	4.05167	0.1458192	0.28023973	2.3126837	21	12 13.5	19.2
70123 1999 ME_{1}	15.8	X	73.83914	76.13305	213.73136	6.12750	0.1093524	0.27708417	2.3302092	21	11 14.4	18.7
70124 1999 NY	16.3	X	291.33754	254.50781	85.87522	2.24688	0.1813827	0.26470761	2.4022881	21	5 20.1	19.2
70125 1999 NZ	15.5	X	334.33563	228.51619	153.13183	10.49812	0.1694555	0.27350694	2.3504832	21	10 25.0	17.5
70126 1999 NT_{2}	14.8	X	120.60943	122.44474	124.34694	25.20879	0.1976706	0.28001582	2.3139164	21	11 22.7	19.1
70127 1999 NC_{4}	15.4	X	61.91904	140.42852	134.98972	7.06719	0.2338680	0.27487745	2.3426638	21	10 30.9	18.7
70128 1999 NF_{4}	15.8	X	148.24617	328.97833	321.52648	3.41424	0.2227128	0.24163526	2.5528728	21	—	—
70129 1999 ND_{6}	16.3	X	5.57204	181.02297	151.67099	2.90832	0.2218698	0.27230267	2.3574081	21	10 20.2	18.1
70130 1999 NO_{6}	16.3	X	13.82088	93.97614	232.44810	1.72043	0.1782271	0.27289032	2.3540226	21	10 18.5	18.4
70131 1999 NQ_{6}	16.0	X	202.35223	225.71559	151.24394	2.53520	0.1958809	0.25623450	2.4549594	21	4 7.3	19.9
70132 1999 NV_{6}	15.7	X	327.45668	64.78281	245.47368	0.49098	0.1803988	0.26577330	2.3958621	21	6 4.2	18.0
70133 1999 NC_{7}	14.7	X	144.06373	257.91827	295.67686	12.66682	0.0695783	0.27385283	2.3485036	21	9 17.4	18.3
70134 1999 NQ_{7}	15.3	X	291.88408	120.17401	289.10738	6.03772	0.1158132	0.27152730	2.3618939	21	9 8.0	17.9
70135 1999 NP_{9}	15.7	X	0.39348	127.74043	272.57375	2.96869	0.2213793	0.27721634	2.3294684	21	—	—
70136 1999 NY_{9}	14.8	X	34.11913	311.10240	134.43136	10.08833	0.1518490	0.28828861	2.2694349	21	—	—
70137 1999 NJ_{10}	15.1	X	144.27143	312.47660	318.37118	6.15684	0.0983598	0.28325463	2.2962440	21	—	—
70138 1999 NW_{10}	14.9	X	245.90599	250.63563	299.30860	6.52664	0.0505136	0.28499047	2.2869104	21	—	—
70139 1999 NK_{11}	14.8	X	80.07603	171.09687	121.77024	3.45668	0.1438207	0.27743110	2.3282661	21	11 29.5	18.1
70140 1999 NX_{15}	15.8	X	107.00952	146.35615	117.61494	8.38053	0.1651479	0.28018237	2.3129994	21	11 23.6	19.4
70141 1999 NE_{18}	15.5	X	6.95341	156.64044	91.40452	13.80444	0.1670338	0.26618671	2.3933808	21	5 26.0	17.5
70142 1999 NP_{18}	16.0	X	32.39667	311.98691	9.75069	2.45810	0.2331411	0.27543351	2.3395098	21	11 21.3	18.8
70143 1999 NO_{19}	15.8	X	350.75637	108.77492	197.55658	1.87208	0.2144637	0.26906357	2.3762901	21	7 20.9	17.2
70144 1999 NH_{20}	16.3	X	345.07449	193.04244	112.27629	6.78958	0.1865001	0.26823366	2.3811890	21	7 5.7	17.8
70145 1999 NW_{20}	15.4	X	115.65157	182.13665	90.93249	6.51071	0.0745418	0.28151682	2.3056842	21	12 7.8	18.5
70146 1999 NX_{23}	15.5	X	89.17834	158.32032	109.92401	10.62178	0.1491692	0.27790699	2.3256074	21	11 11.5	19.0
70147 1999 NP_{25}	15.6	X	324.71971	268.38548	38.74557	2.81315	0.2170816	0.26578186	2.3958107	21	5 17.8	17.7
70148 1999 NT_{26}	16.2	X	359.18222	212.73386	149.19829	2.77946	0.2187239	0.27463483	2.3440434	21	11 21.5	18.1
70149 1999 NL_{30}	14.4	X	25.19304	313.09630	9.23789	1.43574	0.2330399	0.18462517	3.0545140	21	10 24.7	17.8
70150 1999 NS_{31}	16.2	X	133.75646	172.82900	120.16775	7.31511	0.1613400	0.28531860	2.2851567	21	—	—
70151 1999 NL_{32}	15.3	X	79.13512	125.42527	121.46849	3.36292	0.1984523	0.27459239	2.3442849	21	10 6.6	18.5
70152 1999 NX_{33}	15.3	X	140.34121	190.63560	77.40662	7.53108	0.0861900	0.28395146	2.2924858	21	12 28.8	18.5
70153 1999 NO_{34}	15.8	X	11.79911	243.20220	127.31241	7.39879	0.2198599	0.27688379	2.3313333	21	12 27.3	18.3
70154 1999 NX_{34}	16.1	X	66.55949	13.71086	244.07801	1.44402	0.1876895	0.27395386	2.3479262	21	10 2.6	19.2
70155 1999 NF_{35}	14.7	X	43.07294	206.80460	99.37168	13.79474	0.1561296	0.27565788	2.3382401	21	11 8.9	17.8
70156 1999 NR_{37}	15.6	X	312.76767	289.66195	305.03169	5.64094	0.1363575	0.30131545	2.2035443	21	1 23.6	18.4
70157 1999 NV_{37}	15.1	X	88.29076	198.18881	111.35438	8.10755	0.1316550	0.28080542	2.3095767	21	12 28.2	18.4
70158 1999 NZ_{37}	15.2	X	22.81988	42.09781	313.13281	9.86992	0.2534568	0.27604023	2.3360804	21	12 28.6	18.0
70159 1999 NY_{39}	15.5	X	230.71844	249.01236	94.51364	7.30000	0.1630476	0.25636847	2.4541041	21	3 25.5	19.5
70160 1999 NJ_{45}	15.5	X	264.18982	97.22603	191.78270	5.56789	0.1452807	0.25813674	2.4428840	21	2 13.2	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70161 1999 NU_{45}	16.0	X	102.93034	52.64940	222.38455	4.96294	0.2021601	0.28142661	2.3061769	21	12 3.9	19.6
70162 1999 NV_{46}	15.0	X	259.29970	108.64638	178.94211	3.89655	0.1614656	0.30197255	2.2003465	21	1 30.8	18.3
70163 1999 NW_{46}	15.5	X	175.04098	163.83429	146.86219	7.45953	0.0682537	0.29419694	2.2389477	21	—	—
70164 1999 NO_{47}	16.1	X	50.01196	144.97613	144.60729	6.59872	0.1724159	0.27519531	2.3408596	21	10 26.1	19.0
70165 1999 NT_{49}	14.9	X	93.45302	21.72048	260.40625	4.31312	0.1108940	0.27877274	2.3207900	21	11 26.3	18.1
70166 1999 NQ_{50}	15.0	X	225.69989	43.73902	256.10340	4.86988	0.2138385	0.29840428	2.2178526	21	1 16.0	18.5
70167 1999 NN_{53}	15.1	X	92.10503	123.97869	228.81588	10.80734	0.2848667	0.23888146	2.5724548	21	—	—
70168 1999 NG_{61}	15.4	X	180.23895	97.07677	188.42358	7.20557	0.1815556	0.29067897	2.2569761	21	—	—
70169 1999 NX_{64}	16.1	X	332.68716	357.65937	350.54686	2.21383	0.1865127	0.26919626	2.3755091	21	8 19.4	17.8
70170 1999 OD_{1}	16.0	X	248.42016	236.94584	110.52871	3.40291	0.2240453	0.25888565	2.4381705	21	4 9.6	19.9
70171 1999 OL_{2}	14.2	X	295.78335	140.56717	314.71390	23.53934	0.2797010	0.26968687	2.3726272	21	10 16.1	17.0
70172 1999 OQ_{4}	15.7	X	247.10774	104.94694	161.88001	1.51103	0.1921333	0.29733645	2.2231594	21	—	—
70173 1999 OB_{5}	15.7	X	278.57456	152.74822	129.44948	2.97318	0.1989175	0.25681577	2.4512537	21	2 16.3	19.2
70174 1999 PJ_{3}	15.7	X	59.79459	256.37581	7.98999	2.60688	0.1886719	0.27135579	2.3628890	21	10 3.5	18.4
70175 1999 PU_{4}	15.3	X	53.34347	291.02721	125.46056	5.09937	0.1437583	0.28421493	2.2910688	21	—	—
70176 1999 PO_{6}	16.3	X	341.94159	27.53587	285.17320	2.33164	0.1863251	0.26756594	2.3851489	21	7 10.8	18.0
70177 1999 PC_{8}	16.0	X	272.65165	332.98451	303.94219	1.59259	0.1875040	0.25509895	2.4622394	21	2 4.9	19.9
70178 1999 QC	15.5	X	62.18063	142.29730	141.39133	10.00784	0.2407395	0.27458683	2.3443165	21	11 12.2	19.0
70179 Beppechiara	15.7	X	81.23577	177.72585	228.70044	5.23094	0.3134582	0.23842378	2.5757458	21	1 18.4	18.0
70180 1999 QM_{2}	15.3	X	188.75054	78.67439	355.16356	4.46496	0.1609815	0.25875095	2.4390166	21	6 4.6	19.3
70181 1999 RA_{1}	15.2	X	155.07697	270.56019	305.85481	5.84331	0.0739896	0.27492767	2.3423785	21	11 4.7	18.5
70182 1999 RS_{1}	15.2	X	79.32334	104.72765	340.97894	3.87478	0.1232664	0.29067483	2.2569976	21	1 28.9	17.1
70183 1999 RA_{3}	15.3	X	235.68574	238.28282	190.95679	2.40645	0.1574845	0.26183526	2.4198250	21	7 16.2	18.7
70184 1999 RU_{3}	14.6	X	5.56440	13.45409	195.75880	7.00374	0.0907912	0.30299707	2.1953837	21	3 15.2	16.7
70185 1999 RJ_{9}	15.8	X	298.48888	132.12158	352.22687	3.19275	0.1750243	0.27855618	2.3219927	21	—	—
70186 1999 RE_{10}	14.9	X	353.62118	345.91507	121.76964	6.55984	0.0701755	0.28732948	2.2744825	21	—	—
70187 1999 RY_{10}	14.3	X	28.30337	77.89353	326.94189	6.42566	0.1778343	0.28101271	2.3084408	21	—	—
70188 1999 RE_{11}	15.8	X	290.29697	286.02507	79.70710	2.40575	0.1951924	0.26491637	2.4010259	21	6 21.4	18.7
70189 1999 RR_{11}	15.1	X	27.95855	71.44357	183.78043	8.71775	0.2440932	0.26775395	2.3840322	21	8 2.8	17.2
70190 1999 RW_{11}	16.2	X	346.74323	123.55820	154.61316	2.28391	0.1277128	0.26411000	2.4059106	21	5 30.9	18.4
70191 1999 RY_{11}	15.9	X	286.56412	50.79346	355.77976	1.76263	0.2108697	0.26767166	2.3845208	21	8 13.0	18.6
70192 1999 RE_{12}	16.1	X	322.20695	51.53685	257.44263	1.62552	0.2137647	0.26364331	2.4087490	21	5 16.8	18.2
70193 1999 RY_{13}	15.9	X	291.63290	266.81426	136.98487	2.89347	0.1945680	0.26773207	2.3841622	21	8 20.2	18.3
70194 1999 RW_{14}	15.9	X	335.63766	94.82927	174.94805	2.51184	0.1598754	0.26085676	2.4258726	21	4 22.3	18.3
70195 1999 RU_{15}	15.8	X	339.34935	226.19901	167.92015	2.27026	0.2129936	0.27249506	2.3562984	21	11 25.6	17.3
70196 1999 RB_{16}	16.4	X	311.69289	128.95732	180.84075	5.33421	0.1485537	0.26168563	2.4207474	21	5 13.2	19.2
70197 1999 RS_{18}	15.8	X	275.59575	172.92834	174.42525	15.79298	0.2132595	0.26035570	2.4289840	21	5 8.7	19.5
70198 1999 RV_{21}	15.9	X	92.46365	207.89911	152.95695	5.94382	0.3085019	0.23766854	2.5811996	21	—	—
70199 1999 RL_{22}	15.0	X	72.60084	47.52052	359.52387	8.06644	0.0843641	0.28564553	2.2834128	21	—	—
70200 1999 RO_{22}	15.6	X	96.63757	129.56388	247.05714	4.49789	0.0670651	0.24023913	2.5627538	21	—	—
70201 1999 RR_{23}	14.9	X	326.57557	76.08350	15.57645	7.14407	0.1638015	0.27656093	2.3331473	21	—	—
70202 1999 RR_{24}	14.4	X	5.23412	284.71146	317.36159	6.49116	0.0812418	0.25824540	2.4421986	21	5 10.2	17.1
70203 1999 RE_{25}	15.0	X	200.22142	196.19656	274.32698	1.81297	0.1213090	0.26291057	2.4132224	21	8 5.3	18.4
70204 1999 RD_{26}	15.3	X	191.87469	327.88561	129.72552	3.24424	0.1559866	0.25967633	2.4332186	21	7 9.4	19.1
70205 1999 RE_{26}	13.6	X	238.13038	207.89520	6.57824	32.52041	0.2144051	0.23892822	2.5721191	21	—	—
70206 1999 RT_{31}	15.9	X	301.96924	28.70455	262.60085	0.31417	0.1863548	0.25827580	2.4420070	21	3 26.7	19.2
70207 Davidunlap	15.2	X	267.28237	51.53872	7.80361	7.05724	0.0959044	0.26635264	2.3923867	21	8 24.1	18.1
70208 1999 RX_{33}	15.6	X	64.38029	81.29388	187.31854	22.98525	0.2539572	0.27414711	2.3468227	21	10 26.3	19.0
70209 1999 RL_{34}	14.3	X	317.04182	285.70231	187.70680	11.86373	0.1766121	0.23164769	2.6257340	21	—	—
70210 Cesarelombardi	16.4	X	274.87445	1.91338	346.41998	1.80916	0.1823355	0.26041370	2.4286233	21	5 9.2	19.7
70211 1999 RZ_{37}	15.5	X	72.98566	250.69981	183.74131	5.44377	0.2173309	0.24110551	2.5566108	21	1 25.5	18.0
70212 1999 RA_{38}	14.8	X	253.16708	30.43207	38.72488	3.10705	0.1434807	0.26361420	2.4089263	21	8 9.7	18.0
70213 1999 RB_{40}	15.0	X	196.52114	269.47316	16.23093	14.44112	0.2165046	0.24192590	2.5508278	21	—	—
70214 1999 RU_{40}	15.0	X	35.13487	157.85213	163.80532	17.21150	0.1874710	0.22762155	2.6566059	21	11 13.6	18.7
70215 1999 RV_{40}	14.4	X	120.77661	210.08268	357.07310	23.79425	0.2039747	0.26924545	2.3752198	21	9 23.3	18.0
70216 1999 RH_{42}	14.0	X	35.92657	114.50682	3.45717	9.58601	0.0768464	0.18927896	3.0042391	21	1 27.4	17.9
70217 1999 RM_{42}	14.6	X	23.66416	73.71806	46.57195	14.53813	0.1422757	0.23978206	2.5660095	21	—	—
70218 1999 RY_{42}	15.4	X	105.92612	174.21669	165.42018	13.43381	0.1830414	0.23887245	2.5725195	21	—	—
70219 1999 RB_{44}	14.1	X	126.94651	17.56665	39.25826	11.23766	0.1722196	0.24420538	2.5349295	21	3 20.7	17.8
70220 1999 RF_{44}	15.5	X	11.61698	267.71334	137.71535	15.52264	0.1327895	0.23165849	2.6256524	21	—	—
70221 1999 RZ_{44}	15.9	X	278.86829	164.91775	195.88477	1.46397	0.2337348	0.26268093	2.4146287	21	5 24.6	19.3
70222 1999 RN_{46}	15.1	X	153.25344	339.34254	322.14184	15.69378	0.1826237	0.24353458	2.5395823	21	—	—
70223 1999 RV_{47}	16.1	X	7.50448	247.48076	131.46440	7.68315	0.2168918	0.27633017	2.3344461	21	12 31.5	18.6
70224 1999 RZ_{49}	15.8	X	307.90445	88.07904	259.29471	2.32848	0.2407395	0.26572246	2.3961677	21	6 14.2	18.4
70225 1999 RG_{50}	15.9	X	310.16086	55.67305	268.05930	2.32986	0.2062591	0.26417561	2.4055122	21	5 19.3	18.4
70226 1999 RN_{50}	15.2	X	345.40540	344.48056	338.60781	9.98871	0.2458058	0.26847828	2.3797424	21	8 8.0	16.4
70227 1999 RV_{50}	15.6	X	5.60031	184.86217	110.38602	5.71137	0.2238298	0.26885196	2.3775368	21	8 16.1	17.0
70228 1999 RY_{51}	15.7	X	266.83647	236.18334	165.65752	1.39207	0.1798599	0.26596023	2.3947393	21	7 12.9	18.9
70229 1999 RO_{54}	15.5	X	78.47012	227.34172	134.69722	4.31134	0.1947997	0.23802003	2.5786578	21	—	—
70230 1999 RH_{56}	15.5	X	54.98397	159.11392	115.33545	3.10995	0.2094774	0.27273344	2.3549252	21	10 16.1	18.4
70231 1999 RP_{58}	16.0	X	6.75175	311.22989	317.69677	5.72491	0.1220862	0.26473361	2.4021309	21	6 26.8	18.2
70232 1999 RA_{60}	15.3	X	105.12090	25.22296	292.86390	3.53910	0.1671560	0.23811911	2.5779425	21	—	—
70233 1999 RG_{61}	15.9	X	327.55739	81.94011	324.36041	8.45508	0.0425184	0.27510546	2.3413692	21	11 8.9	18.8
70234 1999 RV_{61}	15.7	X	31.08357	236.99220	206.31344	4.77492	0.1193652	0.28625613	2.2801645	21	—	—
70235 1999 RL_{62}	15.9	X	221.91902	296.48851	84.32051	3.13542	0.1946416	0.25747509	2.4470673	21	4 29.1	19.8
70236 1999 RL_{67}	15.2	X	143.93744	241.80264	237.37845	1.79400	0.1365185	0.25946709	2.4345266	21	6 19.3	18.7
70237 1999 RO_{68}	16.5	X	305.32319	28.77132	21.45010	2.80736	0.1918471	0.26998048	2.3709067	21	9 27.6	18.4
70238 1999 RS_{69}	15.3	X	243.12448	16.57992	129.60503	2.97392	0.1080137	0.27623677	2.3349723	21	11 17.6	18.1
70239 1999 RA_{71}	15.8	X	127.57907	56.32817	322.56806	0.74832	0.1753606	0.24468582	2.5316103	21	1 27.6	19.0
70240 1999 RP_{71}	16.0	X	203.74492	346.20727	90.89292	2.29727	0.1744943	0.26049888	2.4280939	21	6 23.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70241 1999 RE_{73}	15.5	X	301.39844	257.13360	221.21345	3.86892	0.1662086	0.27827141	2.3235766	21	—	—
70242 1999 RN_{74}	15.6	X	223.65434	197.40481	134.94359	5.55566	0.1217682	0.25249664	2.4791282	21	3 3.9	19.4
70243 1999 RH_{75}	16.2	X	233.66441	113.87572	331.38728	0.78557	0.1488006	0.26483674	2.4015072	21	8 6.4	19.5
70244 1999 RL_{75}	16.1	X	65.04851	281.06530	329.06291	4.03875	0.1603363	0.26907304	2.3762343	21	9 15.1	19.0
70245 1999 RW_{81}	15.4	X	192.23751	168.72111	319.40525	5.69682	0.1178549	0.26539483	2.3981394	21	8 20.5	18.9
70246 1999 RQ_{82}	14.2	X	106.50427	227.58522	335.66395	12.35451	0.1750631	0.26670003	2.3903088	21	9 2.7	17.8
70247 1999 RR_{82}	15.9	X	165.33910	61.24816	206.31071	6.29116	0.2586410	0.23957575	2.5674824	21	—	—
70248 1999 RS_{82}	15.7	X	337.15048	260.35199	201.37307	6.27064	0.0588705	0.28110084	2.3079583	21	—	—
70249 1999 RJ_{83}	15.6	X	354.19117	300.83996	33.68358	2.67032	0.2228145	0.26901044	2.3766029	21	9 23.7	16.9
70250 1999 RF_{84}	15.9	X	189.09570	137.84637	178.74453	1.86350	0.1001476	0.24586671	2.5234976	21	1 7.9	19.5
70251 1999 RK_{84}	15.3	X	147.33137	290.91675	196.90980	5.97818	0.0643233	0.26045893	2.4283422	21	6 28.9	18.7
70252 1999 RZ_{85}	15.1	X	173.27741	271.01178	142.79525	6.32241	0.1503456	0.25365575	2.4715699	21	4 28.2	19.0
70253 1999 RE_{86}	14.6	X	265.89850	262.82390	135.66550	6.87527	0.1053882	0.26385524	2.4074590	21	7 18.3	17.6
70254 1999 RC_{88}	15.4	X	101.06287	309.49375	4.75696	7.98305	0.1867535	0.23507550	2.6001464	21	—	—
70255 1999 RN_{88}	15.5	X	73.38688	116.48778	324.83451	2.96944	0.2326668	0.24275815	2.5449944	21	2 8.9	17.7
70256 1999 RX_{88}	15.3	X	271.09849	161.98639	283.78810	1.48463	0.1712161	0.26833322	2.3806000	21	9 20.8	18.1
70257 1999 RG_{89}	15.5	X	333.20907	99.32962	180.70575	6.18164	0.1575605	0.26021803	2.4298406	21	5 4.9	18.0
70258 1999 RL_{89}	14.9	X	72.87769	180.44011	3.79732	2.53796	0.1154882	0.25851134	2.4405234	21	6 16.2	17.7
70259 1999 RA_{90}	16.3	X	303.17604	150.28511	139.00741	4.86176	0.1826124	0.25804291	2.4434761	21	3 28.3	19.4
70260 1999 RO_{91}	15.4	X	191.17576	283.00322	130.53333	1.65033	0.2238648	0.25482411	2.4640095	21	5 13.3	19.6
70261 1999 RU_{91}	16.1	X	340.33188	104.14689	178.39274	1.98997	0.2220841	0.26222913	2.4174014	21	5 11.8	18.0
70262 1999 RP_{92}	15.1	X	351.34719	54.08761	8.20545	5.87553	0.1529578	0.27610734	2.3357019	21	—	—
70263 1999 RM_{93}	15.7	X	126.80915	278.27751	14.31444	9.35310	0.1386343	0.23538679	2.5978535	21	—	—
70264 1999 RP_{93}	15.8	X	300.04485	233.26794	65.64482	3.39499	0.1647294	0.25815021	2.4427989	21	4 8.5	18.8
70265 1999 RX_{94}	15.1	X	132.14281	254.90669	1.30435	4.73408	0.1781012	0.27728162	2.3291028	21	12 3.7	18.8
70266 1999 RU_{95}	14.9	X	221.11179	173.21255	19.70140	12.70484	0.0816907	0.27830812	2.3233723	21	12 24.5	18.1
70267 1999 RT_{96}	15.4	X	261.77252	133.29370	342.74843	6.81014	0.0548910	0.27362009	2.3498352	21	11 6.5	18.3
70268 1999 RK_{97}	15.8	X	244.94888	164.82715	302.56448	1.51936	0.1688845	0.26758618	2.3850286	21	9 15.7	18.9
70269 1999 RR_{97}	15.8	X	306.79252	194.19617	196.29943	0.58592	0.0870802	0.26763633	2.3847307	21	9 12.4	18.4
70270 1999 RZ_{102}	15.1	X	342.63796	89.91503	297.87289	7.26544	0.2322982	0.27234974	2.3571365	21	11 23.1	16.7
70271 1999 RO_{105}	14.6	X	61.63133	358.82723	256.10470	5.43286	0.0904374	0.26625371	2.3929793	21	9 3.3	17.5
70272 1999 RG_{107}	15.6	X	164.71569	133.27678	305.74840	1.79080	0.1612540	0.25433958	2.4671379	21	5 19.8	19.4
70273 1999 RF_{109}	15.0	X	197.29627	3.96682	288.99306	9.04399	0.0893648	0.24415109	2.5353053	21	—	—
70274 1999 RG_{109}	16.1	X	29.32801	75.67990	197.36270	9.38763	0.1239434	0.26657504	2.3910559	21	8 13.9	18.8
70275 1999 RJ_{109}	15.2	X	12.94320	12.59204	329.10614	9.04333	0.1960455	0.27140698	2.3625919	21	11 7.7	17.7
70276 1999 RT_{109}	15.7	X	78.17613	345.10905	340.34231	11.99459	0.2015380	0.23275128	2.6174275	21	—	—
70277 1999 RV_{109}	15.1	X	22.01745	308.80262	312.89890	5.94004	0.1040792	0.26250415	2.4157126	21	7 14.9	17.6
70278 1999 RK_{110}	14.3	X	152.52079	43.51472	301.17547	12.19717	0.0497734	0.24191094	2.5509329	21	—	—
70279 1999 RY_{110}	14.3	X	244.20967	180.61571	331.95084	9.26184	0.1665662	0.22684604	2.6626572	21	11 5.3	18.2
70280 1999 RA_{111}	14.6	X	290.88296	143.95911	1.61763	29.24005	0.0800263	0.23207532	2.6225076	21	—	—
70281 1999 RB_{111}	14.6	X	171.21094	286.18133	220.46153	8.28317	0.1474684	0.26405897	2.4062206	21	8 19.5	18.5
70282 1999 RW_{111}	14.8	X	114.86185	7.07956	232.75802	8.85642	0.2106213	0.27794985	2.3253683	21	10 30.9	18.6
70283 1999 RK_{113}	16.1	X	319.45824	149.57191	188.35267	12.98401	0.2263438	0.26660962	2.3908491	21	6 23.7	18.7
70284 1999 RQ_{114}	15.3	X	232.13714	131.96120	330.66759	0.79655	0.1445678	0.26761370	2.3848651	21	8 28.7	18.6
70285 1999 RZ_{116}	16.1	X	8.04101	19.86920	327.85588	8.52567	0.1844033	0.27345859	2.3507602	21	11 6.3	18.5
70286 1999 RA_{118}	15.6	X	116.56922	51.32534	284.27612	6.24586	0.1486539	0.28591899	2.2819566	21	—	—
70287 1999 RH_{118}	16.1	X	279.26561	132.93907	183.34832	2.99808	0.1939330	0.25960651	2.4336549	21	4 1.2	19.6
70288 1999 RS_{118}	15.3	X	6.41522	93.06597	209.38057	5.75878	0.1358872	0.26892487	2.3771070	21	8 17.7	17.5
70289 1999 RW_{118}	15.8	X	25.50808	87.88243	270.18554	6.58713	0.1618792	0.27648738	2.3335611	21	12 20.7	18.5
70290 1999 RZ_{118}	15.6	X	345.43896	132.80241	200.04314	12.23753	0.1370701	0.26911333	2.3759971	21	8 20.4	18.0
70291 1999 RY_{120}	15.7	X	33.35688	69.77959	283.31830	5.38153	0.2629406	0.27646298	2.3336984	21	—	—
70292 1999 RC_{123}	15.1	X	159.99304	330.27234	218.92820	6.04496	0.0502345	0.27151934	2.3619400	21	10 6.4	18.2
70293 1999 RK_{124}	15.4	X	5.24858	307.62532	304.11612	8.59429	0.2269035	0.26203725	2.4185813	21	5 20.6	17.2
70294 1999 RT_{125}	15.1	X	176.23889	179.02195	310.40932	5.86465	0.0779898	0.26601508	2.3944101	21	8 5.9	18.3
70295 1999 RM_{127}	15.3	X	220.91954	143.78429	264.31450	6.74625	0.1533132	0.26074560	2.4265620	21	6 3.1	19.1
70296 1999 RZ_{127}	15.0	X	278.82070	179.34466	299.92782	3.59825	0.0888865	0.27841294	2.3227891	21	12 6.1	17.4
70297 1999 RG_{129}	15.8	X	334.25978	220.28149	172.00311	2.22810	0.2209632	0.27233881	2.3571996	21	11 9.8	17.2
70298 1999 RJ_{129}	16.3	X	253.12175	215.71406	154.75523	2.89430	0.2268060	0.26047069	2.4282691	21	5 11.9	20.1
70299 1999 RM_{129}	15.4	X	4.27921	35.45115	340.17382	4.98883	0.2205152	0.27472475	2.3435318	21	12 21.5	17.7
70300 1999 RX_{130}	15.7	X	56.72601	3.63555	281.94210	5.71005	0.1773722	0.27355018	2.3502355	21	10 24.5	18.7
70301 1999 RZ_{130}	15.3	X	298.92010	151.61124	263.27392	6.15166	0.0986491	0.27171564	2.3608024	21	9 30.9	18.0
70302 1999 RD_{131}	15.3	X	352.42179	72.95193	238.12272	5.65672	0.1297764	0.26743127	2.3859496	21	8 1.6	17.6
70303 1999 RX_{131}	15.5	X	300.04431	88.08581	257.74000	5.02955	0.1475228	0.26418370	2.4054631	21	6 15.5	18.0
70304 1999 RE_{133}	15.7	X	88.65662	6.74064	265.88387	5.79392	0.2380938	0.27675143	2.3320766	21	11 19.5	19.5
70305 1999 RQ_{133}	15.6	X	309.84540	39.97975	251.40173	5.93094	0.1586201	0.26028728	2.4294096	21	4 8.5	18.6
70306 1999 RL_{134}	15.3	X	298.92077	163.80849	305.64329	7.32127	0.0675778	0.27899685	2.3195470	21	12 27.9	17.8
70307 1999 RV_{134}	15.5	X	239.51015	182.05345	208.18268	2.54482	0.1832611	0.26075404	2.4265096	21	5 27.6	19.1
70308 1999 RO_{135}	14.8	X	110.60067	0.17373	345.76503	13.35771	0.1886554	0.24031000	2.5622499	21	—	—
70309 1999 RL_{136}	15.4	X	3.80550	170.48720	148.46257	7.16370	0.1579874	0.26953668	2.3735086	21	9 14.6	17.3
70310 1999 RW_{136}	15.5	X	314.43028	27.86917	330.15833	6.34845	0.1402627	0.26703366	2.3883174	21	8 1.4	17.8
70311 1999 RG_{137}	15.0	X	348.85248	118.89820	327.31982	6.51559	0.1666918	0.28075465	2.3098552	21	—	—
70312 1999 RM_{137}	15.5	X	4.33871	104.56530	176.08044	4.57249	0.2290740	0.26674893	2.3900167	21	7 13.2	17.0
70313 1999 RK_{138}	15.7	X	353.63169	282.75346	23.43737	2.69352	0.1756260	0.26718684	2.3874045	21	7 31.0	17.4
70314 1999 RN_{138}	14.8	X	279.79483	346.62301	289.46747	12.83690	0.2180682	0.25446179	2.4663479	21	2 4.9	18.9
70315 1999 RE_{139}	15.5	X	80.86863	335.05303	281.90195	1.69809	0.1866149	0.27395184	2.3479377	21	10 17.7	18.8
70316 1999 RQ_{139}	16.7	X	265.19547	297.11921	70.31958	0.30553	0.2306676	0.26163539	2.4210572	21	5 18.6	20.2
70317 1999 RP_{143}	16.1	X	300.78066	226.26242	182.33657	5.46834	0.1961330	0.26799134	2.3826242	21	9 12.9	18.4
70318 1999 RE_{145}	15.5	X	281.62517	151.17738	271.05643	5.76884	0.0848763	0.26993907	2.3711492	21	9 14.9	18.3
70319 1999 RP_{146}	15.3	X	0.64022	174.01986	270.44116	4.21314	0.0937963	0.28276226	2.2989089	21	—	—
70320 1999 RY_{147}	14.4	X	20.88950	86.84515	319.61045	8.91250	0.1896958	0.27928622	2.3179446	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70321 1999 RC_{149}	15.6	X	350.61541	17.10886	339.39213	5.54560	0.1323479	0.27134321	2.3629620	21	10 10.7	17.8
70322 1999 RU_{150}	16.2	X	334.21802	208.41853	95.64334	2.35620	0.1888066	0.26467935	2.4024591	21	6 7.3	18.1
70323 1999 RW_{152}	15.8	X	97.55726	118.92217	189.60100	6.65646	0.1163542	0.27984477	2.3148592	21	—	—
70324 1999 RK_{153}	16.1	X	104.57845	68.50541	180.41993	6.02704	0.0900893	0.27313369	2.3526240	21	10 25.4	19.2
70325 1999 RT_{156}	16.4	X	213.15671	170.47014	195.98206	2.46932	0.1854040	0.25447767	2.4662453	21	4 2.8	20.5
70326 1999 RS_{158}	16.0	X	296.85116	189.97843	135.71656	1.99699	0.1330428	0.26140486	2.4224804	21	5 15.5	19.0
70327 1999 RQ_{160}	15.3	X	172.28003	2.44726	54.36946	3.16257	0.1643952	0.25457679	2.4656050	21	4 29.5	19.1
70328 1999 RH_{161}	15.6	X	138.48813	343.29011	254.04057	3.06796	0.2106016	0.27866205	2.3214045	21	11 16.9	19.4
70329 1999 RY_{163}	15.5	X	327.42307	187.38991	236.88294	1.36704	0.2066357	0.27394387	2.3479832	21	12 15.1	16.9
70330 1999 RS_{165}	15.3	X	290.36736	285.61748	172.69170	1.84197	0.1818404	0.27346256	2.3507375	21	11 13.4	17.1
70331 1999 RW_{165}	16.5	X	148.12000	177.46544	156.66897	3.30832	0.1061357	0.24306265	2.5428684	21	—	—
70332 1999 RF_{166}	15.6	X	249.18198	269.20807	152.19208	8.53063	0.0887391	0.26528007	2.3988309	21	7 30.3	18.8
70333 1999 RA_{168}	14.7	X	93.81986	11.35627	3.90527	4.96006	0.1666334	0.28525171	2.2855139	21	—	—
70334 1999 RT_{168}	15.6	X	351.54483	70.76335	169.56085	2.38198	0.1323194	0.25830857	2.4418005	21	4 11.7	18.0
70335 1999 RC_{169}	15.6	X	280.45777	146.45891	183.75834	2.82549	0.1882626	0.25952898	2.4341395	21	4 21.9	19.0
70336 1999 RO_{169}	15.1	X	112.50779	226.00302	319.43328	6.35575	0.0433089	0.26451856	2.4034326	21	8 2.4	18.2
70337 1999 RE_{170}	15.4	X	317.48934	80.36489	186.04548	2.74831	0.1742480	0.25782127	2.4448763	21	3 15.8	18.5
70338 1999 RL_{170}	15.1	X	266.91076	216.42980	349.94732	10.70884	0.1353119	0.24248318	2.5469180	21	—	—
70339 1999 RQ_{170}	15.0	X	290.81840	110.98471	348.92846	5.44405	0.1644431	0.27398553	2.3477452	21	11 16.6	17.2
70340 1999 RF_{173}	16.2	X	4.18049	266.79331	72.45035	5.85109	0.1395486	0.27071230	2.3666320	21	10 16.9	18.4
70341 1999 RJ_{174}	14.9	X	118.39636	289.10805	358.19798	13.18474	0.0824265	0.23414234	2.6070503	21	12 20.1	19.1
70342 1999 RA_{175}	15.7	X	18.83479	122.25084	145.93815	2.72547	0.2089325	0.26609337	2.3939405	21	7 29.9	17.4
70343 1999 RH_{176}	15.9	X	315.86991	101.57135	196.38579	4.75932	0.1846179	0.26082453	2.4260724	21	4 25.7	18.7
70344 1999 RR_{176}	15.7	X	105.52828	195.27670	193.04627	4.24779	0.1307208	0.24263723	2.5458399	21	1 3.8	18.8
70345 1999 RF_{177}	15.4	X	15.95728	94.87045	177.92705	4.69008	0.1828829	0.26566113	2.3965364	21	7 26.5	17.3
70346 1999 RO_{177}	15.7	X	302.07782	206.87979	164.31835	4.58856	0.1654974	0.26555352	2.3971838	21	7 23.5	18.3
70347 1999 RA_{178}	15.2	X	175.14698	144.42275	161.58585	11.28969	0.2057570	0.24408652	2.5357524	21	—	—
70348 1999 RE_{179}	15.1	X	56.71958	306.03702	57.54582	4.64446	0.1107279	0.23445781	2.6047112	21	—	—
70349 1999 RV_{180}	15.6	X	338.67461	349.12854	89.36172	3.41956	0.1993879	0.27658675	2.3330021	21	—	—
70350 1999 RE_{181}	14.5	X	128.31967	127.79363	11.28280	8.78200	0.2018036	0.25847806	2.4407329	21	7 6.2	18.4
70351 1999 RM_{182}	16.0	X	294.94113	101.66228	324.55743	1.72339	0.1875363	0.26943452	2.3741085	21	9 30.5	18.2
70352 1999 RV_{182}	15.5	X	117.80972	212.17588	334.50247	1.96700	0.1285488	0.26495276	2.4008061	21	8 20.0	18.9
70353 1999 RB_{183}	15.9	X	300.21493	230.35305	166.11737	4.56147	0.1880697	0.26720852	2.3872753	21	8 24.9	18.0
70354 1999 RM_{183}	15.1	X	303.39580	7.87624	3.41279	6.54364	0.1339746	0.26575963	2.3959443	21	8 3.9	17.8
70355 1999 RC_{185}	15.6	X	16.40090	147.18862	129.65622	7.37385	0.1652779	0.26595334	2.3947807	21	8 2.7	17.6
70356 1999 RP_{185}	16.2	X	275.86293	127.53187	303.01818	1.44125	0.1592795	0.26833074	2.3806146	21	9 8.4	18.9
70357 1999 RM_{186}	15.8	X	166.65066	336.33928	11.69073	3.94231	0.0604543	0.24687401	2.5166287	21	1 20.1	19.2
70358 1999 RN_{186}	15.9	X	0.61350	194.83247	141.37910	3.79814	0.0924354	0.26985761	2.3716264	21	9 29.1	18.3
70359 1999 RD_{187}	16.0	X	126.92789	356.06611	352.76753	1.75920	0.1486804	0.24159612	2.5531485	21	—	—
70360 1999 RV_{188}	15.5	X	82.08048	268.80647	165.47152	14.23628	0.1461171	0.24453869	2.5326256	21	1 30.0	18.4
70361 1999 RK_{189}	15.1	X	271.96872	125.77320	346.52634	4.24662	0.1779602	0.27232362	2.3572873	21	10 29.2	17.7
70362 1999 RF_{191}	15.0	X	73.68235	5.19342	30.19791	5.79570	0.2547487	0.23941439	2.5686359	21	—	—
70363 1999 RJ_{193}	15.5	X	282.24793	297.61466	74.97484	8.39220	0.0422365	0.26328387	2.4109408	21	7 16.3	18.4
70364 1999 RN_{194}	15.3	X	321.62681	184.67721	250.94905	3.44983	0.1958636	0.27344242	2.3508529	21	12 18.5	16.9
70365 1999 RF_{198}	15.6	X	56.19195	39.05896	260.37912	7.04432	0.1927225	0.27459302	2.3442813	21	11 15.3	18.7
70366 1999 RQ_{198}	15.7	X	349.12382	178.13017	212.85244	4.82484	0.1222506	0.27353753	2.3503080	21	12 1.8	18.0
70367 1999 RH_{199}	14.5	X	306.23455	61.70642	223.97726	13.59881	0.1715406	0.25862719	2.4397946	21	3 23.2	17.9
70368 1999 RN_{202}	15.9	X	248.74749	77.17142	265.20280	5.61021	0.1436330	0.25550898	2.4596045	21	4 5.4	19.8
70369 1999 RL_{205}	14.7	X	86.03597	156.82942	258.46682	10.58667	0.1151496	0.24214740	2.5492720	21	1 7.3	17.6
70370 1999 RS_{205}	14.5	X	302.06182	77.49323	278.65390	7.43914	0.1783777	0.21828373	2.7318392	21	6 29.4	17.7
70371 1999 RB_{206}	15.6	X	81.97184	98.44410	299.57912	6.23922	0.1038980	0.28507095	2.2864800	21	—	—
70372 1999 RN_{207}	14.6	X	263.88016	263.96839	326.32440	11.35356	0.2237635	0.24429664	2.5342983	21	—	—
70373 1999 RY_{207}	15.2	X	144.28740	182.10306	208.63899	13.88892	0.2642120	0.24618412	2.5213281	21	3 6.7	19.5
70374 1999 RD_{210}	15.1	X	246.63594	74.81716	321.01261	6.07389	0.2297887	0.25943453	2.4347303	21	6 5.9	18.9
70375 1999 RM_{210}	15.3	X	347.22154	61.84876	272.96003	5.58595	0.1634554	0.26643569	2.3918895	21	8 28.6	17.3
70376 1999 RB_{211}	15.2	X	35.95005	24.62945	240.89711	7.74635	0.2278232	0.26563468	2.3966956	21	8 31.1	17.8
70377 1999 RE_{211}	14.6	X	44.40354	283.76216	348.31435	15.05969	0.3271296	0.22343057	2.6897236	21	10 4.6	18.1
70378 1999 RG_{211}	15.4	X	271.93568	318.05248	343.61815	9.56629	0.2373699	0.25455518	2.4657446	21	3 2.6	19.3
70379 1999 RL_{212}	14.2	X	10.41404	330.09194	268.92877	12.66445	0.1806090	0.25891880	2.4379623	21	5 14.4	16.4
70380 1999 RQ_{212}	14.4	X	276.87025	231.35819	316.29808	12.27167	0.1076001	0.23710852	2.5852623	21	—	—
70381 1999 RZ_{213}	15.9	X	85.23430	95.29743	154.88265	3.43259	0.1584935	0.27417338	2.3466727	21	10 12.4	19.2
70382 1999 RK_{214}	15.4	X	234.33194	283.60715	73.16863	5.79416	0.1631439	0.25545713	2.4599372	21	4 13.2	19.3
70383 1999 RK_{218}	15.1	X	192.29185	224.84186	244.76933	4.53249	0.1826776	0.26200163	2.4188005	21	7 23.8	19.1
70384 1999 RS_{219}	15.8	X	24.58931	328.47779	38.08642	7.02470	0.1368595	0.27547489	2.3392755	21	12 26.8	18.6
70385 1999 RU_{219}	15.9	X	324.91632	263.91255	81.48748	4.82082	0.2611991	0.26610352	2.3938796	21	7 13.8	17.7
70386 1999 RO_{220}	15.7	X	344.89316	22.80820	275.00093	6.00279	0.1258410	0.26453827	2.4033132	21	6 27.4	17.7
70387 1999 RW_{221}	16.2	X	129.31521	308.53668	318.84089	2.12845	0.1528887	0.28152388	2.3056456	21	12 16.0	19.7
70388 1999 RD_{224}	14.7	X	24.42380	345.27726	39.33841	6.68882	0.1124510	0.27824311	2.3237341	21	—	—
70389 1999 RS_{225}	15.2	X	220.70907	94.27418	202.83428	6.28900	0.0465912	0.29515698	2.2340901	21	1 5.3	18.3
70390 1999 RY_{227}	15.7	X	70.43012	287.38709	146.48393	0.55139	0.1179413	0.24227435	2.5483814	21	1 8.8	18.3
70391 1999 RP_{230}	15.6	X	170.10066	154.80063	151.17256	13.08029	0.1861027	0.24277610	2.5448690	21	—	—
70392 1999 RS_{230}	15.5	X	154.43101	301.92490	79.74888	8.44022	0.1094887	0.29310448	2.2445076	21	2 18.2	18.5
70393 1999 RC_{237}	15.7	X	339.84596	209.42998	85.55647	6.64783	0.1297520	0.26223534	2.4173632	21	6 12.4	18.0
70394 1999 RP_{237}	15.0	X	230.02554	278.38429	128.48753	8.93415	0.2248034	0.25864025	2.4397124	21	6 7.2	19.0
70395 1999 RM_{238}	15.3	X	96.64474	216.73659	155.79858	16.53675	0.0826245	0.23857695	2.5746432	21	—	—
70396 1999 RQ_{238}	15.0	X	8.91599	170.26454	259.98414	13.88365	0.0810749	0.23424223	2.6063091	21	—	—
70397 1999 RH_{239}	14.7	X	346.15201	11.65268	128.17986	9.01098	0.1457355	0.23959971	2.5673113	21	—	—
70398 1999 RD_{240}	14.9	X	129.74774	345.53721	52.34486	12.76602	0.0579491	0.24627218	2.5207270	21	2 12.3	18.5
70399 1999 RQ_{240}	14.9	X	12.42110	24.10594	53.61613	14.80053	0.2341656	0.23441346	2.6050397	21	—	—
70400 1999 RG_{241}	15.8	X	11.45849	268.63336	340.26609	5.97917	0.0891848	0.26408892	2.4060386	21	6 1.9	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70401 Davidbishop	15.3	X	237.66435	150.15987	118.66098	8.41642	0.1957427	0.24658784	2.5185753	21	—	—
70402 1999 RJ_{242}	15.6	X	193.79837	261.22705	354.59613	3.09452	0.0484635	0.23906138	2.5711639	21	—	—
70403 1999 RK_{244}	16.2	X	286.15017	97.60375	307.99264	0.73226	0.1809768	0.26894337	2.3769980	21	8 15.7	18.6
70404 1999 RR_{245}	15.8	X	41.50071	265.82001	40.46703	4.80101	0.1768485	0.27310678	2.3527786	21	11 3.9	18.4
70405 1999 RQ_{248}	16.0	X	68.36519	355.24140	354.94644	3.15972	0.1723826	0.28144060	2.3061004	21	—	—
70406 1999 RT_{252}	15.3	X	20.31585	71.73605	264.85976	6.00193	0.1366751	0.27162491	2.3613280	21	11 5.9	17.8
70407 1999 SE_{1}	15.6	X	45.86850	343.08223	75.20260	3.21118	0.1908465	0.23705369	2.5856609	21	—	—
70408 1999 SH_{1}	15.6	X	258.01020	174.19013	191.83724	9.06817	0.2374215	0.25963552	2.4334736	21	5 10.5	19.4
70409 Srnín	15.1	X	233.06615	337.56955	112.01544	7.41082	0.0646841	0.26525182	2.3990012	21	8 24.1	18.2
70410 1999 SE_{3}	13.7	X	62.77313	51.80479	248.61329	23.94876	0.2291226	0.27468449	2.3437609	21	11 29.3	17.1
70411 1999 SF_{3}	13.3	X	252.75376	136.15752	290.88017	23.22475	0.2902214	0.26271170	2.4144401	21	7 16.5	16.9
70412 1999 SM_{4}	15.5	X	145.14095	320.22087	6.56892	15.16696	0.1513277	0.24059072	2.5602564	21	—	—
70413 1999 SJ_{5}	15.9	X	297.76512	309.23483	66.38734	1.89769	0.2431406	0.26545604	2.3977707	21	7 9.6	18.4
70414 1999 SF_{6}	15.1	X	332.16950	341.67727	37.31230	7.20877	0.1121772	0.27002839	2.3706263	21	10 12.2	17.4
70415 1999 SJ_{11}	14.4	X	260.70712	37.10188	92.00497	6.23989	0.0639115	0.22648499	2.6654861	21	11 16.9	17.9
70416 1999 ST_{11}	14.9	X	62.34771	286.52893	57.25165	7.40798	0.1413238	0.27584802	2.3371655	21	—	—
70417 1999 SV_{11}	15.4	X	139.75138	295.44541	84.63662	5.16035	0.2380337	0.24383247	2.5375135	21	2 20.9	19.3
70418 Kholopov	15.3	X	110.91134	105.13590	60.42156	3.84631	0.1147469	0.25907382	2.4369897	21	7 12.7	18.7
70419 1999 SQ_{12}	15.5	X	1.53402	26.10800	324.71751	6.70294	0.1283795	0.27334063	2.3514365	21	10 21.9	18.0
70420 1999 SM_{13}	15.6	X	131.61318	194.40398	187.46094	7.28007	0.1403757	0.24473759	2.5312532	21	1 29.4	19.1
70421 1999 SY_{14}	15.3	X	48.07318	328.15618	257.84175	7.35484	0.0491668	0.26044551	2.4284256	21	6 27.9	18.0
70422 1999 SS_{16}	14.6	X	33.34877	269.60255	218.51617	11.81619	0.1268718	0.24442581	2.5334053	21	1 15.0	17.6
70423 1999 SB_{18}	15.2	X	27.82037	229.30222	91.34904	7.46387	0.1354153	0.27165845	2.3611337	21	10 30.9	17.9
70424 1999 SA_{20}	15.3	X	133.70538	249.30718	125.20311	7.24896	0.1884140	0.24426336	2.5345284	21	1 31.0	18.8
70425 1999 SJ_{26}	15.0	X	61.22403	316.08515	70.03102	10.10341	0.1945449	0.23647959	2.5898440	21	—	—
70426 1999 TN	15.3	X	303.01634	183.41040	209.06872	7.11919	0.1984857	0.26587195	2.3952694	21	8 19.5	17.8
70427 1999 TB_{1}	15.3	X	340.06941	179.67024	208.49123	4.72348	0.2353324	0.27013040	2.3700294	21	11 18.9	16.7
70428 1999 TP_{1}	15.5	X	244.19576	190.30387	216.36819	1.89139	0.1857036	0.25974728	2.4327755	21	6 22.6	19.2
70429 1999 TY_{1}	14.7	X	128.85548	338.01681	50.55774	15.23470	0.3130103	0.24240202	2.5474865	21	3 7.4	19.0
70430 1999 TM_{2}	15.3	X	64.96337	329.92963	100.27937	12.08231	0.1527344	0.24083963	2.5584921	21	—	—
70431 1999 TD_{3}	15.4	X	148.78516	263.15701	207.25745	4.24811	0.1560840	0.25525048	2.4612648	21	6 14.3	19.3
70432 1999 TO_{3}	15.6	X	312.98560	59.63353	276.42638	0.96700	0.1717539	0.26211553	2.4180997	21	6 18.6	18.0
70433 1999 TS_{3}	15.8	X	90.20549	337.44204	323.06272	0.77536	0.0945169	0.22972509	2.6403638	21	12 6.5	19.6
70434 1999 TL_{4}	15.1	X	263.94734	50.79414	15.15477	5.96586	0.1037498	0.26403753	2.4063508	21	8 27.1	18.0
70435 1999 TU_{4}	14.7	X	79.95624	297.58739	17.33941	15.87904	0.1952207	0.23142957	2.6273836	21	12 23.1	19.1
70436 1999 TT_{5}	15.0	X	242.34245	185.61534	220.29695	5.14213	0.2011014	0.25920762	2.4361510	21	6 18.2	18.7
70437 1999 TK_{6}	16.0	X	82.40519	194.27850	198.91901	3.78206	0.2180181	0.23809100	2.5781454	21	—	—
70438 1999 TX_{6}	14.2	X	325.63750	51.18302	23.97957	13.53638	0.1702965	0.22725888	2.6594315	21	12 6.3	17.0
70439 1999 TE_{7}	15.0	X	347.63567	39.51891	47.96770	4.76273	0.0374428	0.23288341	2.6164374	21	—	—
70440 1999 TV_{7}	15.3	X	1.46132	284.43852	46.85880	9.89274	0.2905457	0.26930241	2.3748848	21	10 20.5	16.7
70441 1999 TH_{8}	15.4	X	337.69765	139.55463	279.10975	3.95391	0.2103926	0.27191396	2.3596543	21	12 30.4	17.2
70442 1999 TR_{9}	14.9	X	10.27300	22.46903	18.88706	2.54714	0.2458048	0.27454594	2.3445493	21	—	—
70443 1999 TV_{9}	14.7	X	13.05487	257.69383	199.81005	21.46160	0.0391601	0.23767979	2.5811181	21	—	—
70444 Genovali	15.3	X	318.95768	118.96157	15.59151	11.89793	0.1305069	0.23301458	2.6154554	21	—	—
70445 1999 TR_{13}	13.9	X	6.96261	88.16879	13.78993	13.89493	0.1388196	0.23556271	2.5965599	21	—	—
70446 Pugh	15.3	X	20.71834	265.22750	135.53994	3.03963	0.1031775	0.23019288	2.6367854	21	—	—
70447 1999 TG_{14}	14.9	X	350.98731	306.27446	42.08189	7.31363	0.1320361	0.26746828	2.3857295	21	10 3.5	17.0
70448 1999 TS_{15}	15.2	X	151.21805	253.99930	38.08002	3.54839	0.1266254	0.23460760	2.6036024	21	—	—
70449 Gruebel	15.3	X	260.77711	157.14675	323.29985	1.63053	0.1474303	0.27192215	2.3596069	21	10 29.2	18.0
70450 1999 TL_{18}	15.0	X	35.79923	306.20122	47.34323	7.58147	0.1368484	0.27389245	2.3482771	21	12 23.9	17.9
70451 1999 TQ_{18}	15.5	X	117.77237	300.36589	16.51895	4.23861	0.2202673	0.23610682	2.5925692	21	—	—
70452 1999 TH_{19}	15.2	X	121.76211	316.06806	30.64981	15.02215	0.1966992	0.23817301	2.5775535	21	—	—
70453 1999 TS_{19}	14.4	X	213.66837	310.83379	102.47345	25.34982	0.2695223	0.25713409	2.4492302	21	6 3.8	19.0
70454 1999 TX_{19}	16.0	X	88.03106	66.38705	8.44999	1.93874	0.1163726	0.24329761	2.5412310	21	2 7.9	18.8
70455 1999 TM_{20}	15.4	X	103.49077	295.25712	6.28294	3.77759	0.1491029	0.23249494	2.6193511	21	12 26.2	19.5
70456 1999 TZ_{20}	15.3	X	107.13242	0.38464	315.43716	2.51103	0.1378669	0.23343060	2.6123470	21	—	—
70457 1999 TU_{23}	16.1	X	269.88160	122.61347	179.31155	5.92180	0.1268321	0.25362252	2.4717858	21	3 11.1	19.6
70458 1999 TR_{25}	15.3	X	197.98639	101.86534	14.53589	4.04177	0.1176121	0.26098847	2.4250564	21	8 12.9	18.9
70459 1999 TX_{25}	14.9	X	15.88533	225.12850	209.34273	21.40738	0.0503666	0.23411991	2.6072168	21	—	—
70460 1999 TQ_{26}	14.6	X	337.64638	135.55188	323.00580	1.12775	0.0480519	0.23203661	2.6227992	21	—	—
70461 1999 TG_{27}	15.2	X	351.35362	9.53801	30.09184	10.12864	0.1611646	0.22622984	2.6674900	21	12 6.9	18.1
70462 1999 TZ_{27}	14.4	X	195.28221	85.63697	41.06915	12.35324	0.2624786	0.21138125	2.7909908	21	8 19.7	19.5
70463 1999 TL_{29}	16.1	X	129.91348	12.55370	321.06906	1.34818	0.1485848	0.23948899	2.5681025	21	—	—
70464 1999 TP_{29}	15.6	X	144.85440	156.38766	212.04679	1.61152	0.1192897	0.24472756	2.5313224	21	1 26.4	19.0
70465 1999 TS_{30}	15.5	X	87.26776	31.40560	265.77495	1.30336	0.0962968	0.22932763	2.6434137	21	11 29.4	19.3
70466 1999 TU_{30}	16.0	X	260.93424	70.21504	338.61953	1.76578	0.1747590	0.26247741	2.4158767	21	7 16.5	19.1
70467 1999 TG_{31}	14.9	X	33.34411	350.86530	11.63902	14.21470	0.1641232	0.22969779	2.6405730	21	12 27.1	18.6
70468 1999 TU_{31}	15.5	X	275.79342	210.13175	233.07026	1.72492	0.0586456	0.22341454	2.6898523	21	10 6.6	18.9
70469 1999 TN_{32}	15.4	X	7.29160	10.43718	14.35154	5.43500	0.2051940	0.27319987	2.3522441	21	—	—
70470 1999 TS_{32}	15.7	X	130.49093	130.55837	193.62564	8.49800	0.1741727	0.23887477	2.5725028	21	—	—
70471 1999 TA_{33}	15.4	X	336.15230	184.31139	210.33525	4.83157	0.0558453	0.22598840	2.6693895	21	10 31.7	18.7
70472 1999 TG_{33}	13.9	X	135.26680	193.94116	11.93603	12.93835	0.2089146	0.22268997	2.6956837	21	10 2.8	18.5
70473 1999 TQ_{33}	14.6	X	313.74305	261.22073	213.66515	3.19163	0.1186243	0.23137426	2.6278023	21	—	—
70474 1999 TH_{35}	14.3	X	289.02075	138.26070	3.23509	24.20768	0.2723078	0.27621483	2.3350959	21	—	—
70475 1999 TS_{35}	14.8	X	35.37629	285.81332	188.70020	22.17169	0.1194855	0.24116000	2.5562257	21	1 1.8	18.2
70476 1999 TA_{37}	15.2	X	28.61584	209.45689	182.55266	15.29800	0.1340750	0.23090178	2.6313858	21	—	—
70477 1999 TC_{38}	14.9	X	239.16109	255.64110	176.38006	6.60614	0.0585344	0.26342413	2.4100850	21	8 4.6	18.0
70478 1999 TN_{40}	15.0	X	317.13484	63.01506	28.91299	7.30432	0.0582385	0.27609882	2.3357499	21	12 31.7	17.7
70479 1999 TM_{41}	15.6	X	104.83791	356.76916	230.59490	1.39601	0.0497145	0.21871111	2.7282793	21	9 15.1	19.3
70480 1999 TU_{41}	16.0	X	278.14903	196.53070	164.94922	1.24069	0.2040796	0.26339799	2.4102444	21	5 28.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70481 1999 TX_{43}	15.0	X	128.17735	186.53465	2.05896	9.12518	0.0853158	0.21773913	2.7363925	21	8 30.2	19.0
70482 1999 TW_{44}	16.5	X	153.19673	96.76527	238.75355	3.00638	0.1115330	0.24112001	2.5565084	21	—	—
70483 1999 TD_{46}	15.8	X	181.40850	73.18271	31.69556	3.06969	0.1509594	0.25897604	2.4376031	21	7 9.4	19.6
70484 1999 TT_{49}	14.8	X	350.15512	266.93705	187.76885	14.21357	0.0346876	0.23544601	2.5974179	21	—	—
70485 1999 TC_{52}	16.1	X	192.85543	325.67620	250.42921	3.11086	0.0776535	0.23013457	2.6372308	21	12 11.5	20.0
70486 1999 TV_{52}	15.6	X	295.61087	189.79525	158.89865	3.42007	0.1992836	0.26473454	2.4021252	21	6 4.4	18.6
70487 1999 TZ_{52}	15.7	X	237.12949	61.53753	149.10150	4.75377	0.0801716	0.28712079	2.2755844	21	—	—
70488 1999 TC_{53}	14.9	X	170.32818	309.15968	259.82324	3.08301	0.1855945	0.22683691	2.6627286	21	11 3.5	19.2
70489 1999 TC_{54}	15.6	X	215.09698	219.25060	308.50759	1.60687	0.0377245	0.22646446	2.6656473	21	11 10.1	19.3
70490 1999 TT_{55}	15.0	X	149.67859	209.90143	23.99653	14.23726	0.1304098	0.22745383	2.6579117	21	11 13.3	19.3
70491 1999 TH_{58}	15.6	X	89.04711	95.96394	160.20742	2.52505	0.2496900	0.22128337	2.7070952	21	10 27.2	19.9
70492 1999 TO_{60}	16.5	X	24.49094	343.04011	258.33433	0.96162	0.1694917	0.26213156	2.4180012	21	6 22.9	18.5
70493 1999 TC_{65}	16.7	X	219.06753	192.67404	267.59048	0.39303	0.1440152	0.26441814	2.4040411	21	8 10.6	20.2
70494 1999 TW_{66}	15.7	X	345.08329	119.74390	277.22255	1.44427	0.0618314	0.22635229	2.6665278	21	11 16.8	18.9
70495 1999 TY_{68}	14.9	X	83.67070	199.37915	16.77642	12.48173	0.1144182	0.21591307	2.7517994	21	8 20.1	18.9
70496 1999 TQ_{72}	15.6	X	252.01933	250.91085	151.52632	2.66833	0.0943987	0.21316547	2.7753951	21	7 6.9	19.4
70497 1999 TZ_{86}	15.8	X	146.58254	79.56113	158.82591	4.40000	0.1534555	0.28038692	2.3118743	21	11 26.9	19.4
70498 1999 TN_{91}	15.7	X	280.17136	304.27496	152.95169	5.88787	0.1046565	0.27137057	2.3628032	21	11 5.6	18.3
70499 1999 TN_{93}	15.1	X	194.59807	10.54670	104.09896	3.65523	0.1483183	0.26150382	2.4218692	21	8 4.6	18.7
70500 1999 TR_{95}	15.8	X	287.72970	256.54902	58.78037	5.43039	0.2072959	0.25785171	2.4446838	21	4 9.7	19.1
70501 1999 TZ_{95}	14.9	X	61.01715	234.64732	180.64980	14.51919	0.1830066	0.23781563	2.5801351	21	—	—
70502 1999 TB_{97}	15.3	X	100.35473	224.39879	117.44188	8.77686	0.1454697	0.23619233	2.5919435	21	—	—
70503 1999 TN_{98}	15.2	X	261.38998	286.14806	147.53934	8.10130	0.0679090	0.26558700	2.3969824	21	9 8.2	18.1
70504 1999 TR_{99}	14.9	X	345.48716	278.11501	181.08551	21.79161	0.0647387	0.23374119	2.6100323	21	—	—
70505 1999 TU_{99}	15.1	X	33.76084	261.65866	143.86362	7.57605	0.0863158	0.23357903	2.6112401	21	—	—
70506 1999 TX_{101}	14.1	X	252.27089	66.64881	61.34066	17.01643	0.1479576	0.22406239	2.6846648	21	10 26.7	17.9
70507 1999 TP_{102}	15.4	X	158.23527	229.33561	143.89446	15.69131	0.1627591	0.24513591	2.5285105	21	2 21.4	19.2
70508 1999 TC_{103}	15.3	X	127.00003	246.89079	93.72741	14.42944	0.2015265	0.23816931	2.5775802	21	—	—
70509 1999 TD_{103}	15.0	X	323.79461	301.14592	99.91502	16.02703	0.1329048	0.22270019	2.6956013	21	10 26.6	18.3
70510 1999 TK_{103}	15.6	X	225.31065	120.69624	331.39537	6.10976	0.0926845	0.26292537	2.4131318	21	8 12.7	19.0
70511 1999 TL_{103}	15.3	X	253.52783	200.36096	244.53082	4.39900	0.1915184	0.26435054	2.4044509	21	8 21.4	18.7
70512 1999 TM_{103}	15.0	X	53.32151	319.23298	341.38960	6.51316	0.1251457	0.27084026	2.3658865	21	10 31.9	18.1
70513 1999 TC_{104}	14.7	X	356.35259	354.51321	346.92938	5.71039	0.1436545	0.26775820	2.3840070	21	9 29.9	16.9
70514 1999 TO_{104}	15.0	X	90.71717	259.36285	337.71898	6.16249	0.0750673	0.26638782	2.3921760	21	9 17.5	18.1
70515 1999 TO_{105}	14.8	X	314.26129	5.96963	21.88047	17.45195	0.1510837	0.22032333	2.7149534	21	9 16.5	17.9
70516 1999 TQ_{105}	14.7	X	237.61767	45.86996	8.80562	7.71604	0.0662524	0.25891328	2.4379970	21	7 11.2	18.1
70517 1999 TU_{105}	15.1	X	163.13974	337.19350	31.31678	16.34841	0.2036710	0.24549538	2.5260416	21	3 3.1	19.4
70518 1999 TS_{107}	15.8	X	353.62846	177.61285	236.51654	7.09729	0.1413134	0.27676055	2.3320253	21	—	—
70519 1999 TD_{108}	15.4	X	272.49840	63.86464	294.22086	5.20597	0.1243556	0.26076927	2.4264151	21	5 27.7	18.6
70520 1999 TX_{108}	15.2	X	66.90202	209.73362	231.08748	5.30286	0.2337475	0.24152304	2.5536635	21	1 23.8	17.5
70521 1999 TF_{109}	15.7	X	48.42403	44.75408	226.17643	9.06124	0.1000791	0.26856974	2.3792021	21	9 7.4	18.6
70522 1999 TE_{110}	15.5	X	336.81122	303.85041	334.96436	8.31503	0.2502794	0.26172362	2.4205131	21	4 17.5	17.8
70523 1999 TL_{110}	15.8	X	312.19084	172.40099	213.25996	5.28713	0.0675554	0.26811993	2.3818623	21	9 14.6	18.4
70524 1999 TH_{112}	16.1	X	326.78613	354.18078	355.04577	1.72896	0.1655481	0.26590798	2.3950530	21	8 8.8	18.0
70525 1999 TW_{112}	15.6	X	150.30976	100.12793	213.98950	14.13184	0.1581171	0.24030329	2.5622976	21	—	—
70526 1999 TG_{113}	16.2	X	149.48607	13.79625	312.69863	3.42285	0.2839561	0.24229314	2.5482496	21	—	—
70527 1999 TQ_{115}	15.4	X	190.30232	358.46114	304.45348	3.51404	0.1841386	0.24417436	2.5351443	21	—	—
70528 1999 TF_{116}	14.8	X	245.21339	219.29867	215.10601	4.69441	0.0809578	0.26402810	2.4064081	21	8 12.4	18.1
70529 1999 TR_{116}	16.2	X	309.93882	324.75832	16.99698	2.32852	0.2329605	0.26341041	2.4101686	21	6 10.4	18.7
70530 1999 TP_{117}	16.0	X	233.92629	91.45449	331.52297	6.13128	0.1005995	0.26123828	2.4235101	21	7 13.5	19.4
70531 1999 TT_{119}	14.8	X	114.56138	305.00508	5.91286	14.40956	0.1096573	0.23428203	2.6060139	21	—	—
70532 1999 TX_{120}	16.0	X	151.52344	50.09153	337.70667	2.18101	0.1725096	0.24681220	2.5170488	21	3 4.7	19.8
70533 1999 TD_{121}	15.1	X	211.43901	275.41033	185.70985	6.95005	0.0893262	0.26256683	2.4153282	21	8 6.1	18.5
70534 1999 TP_{121}	15.9	X	133.49644	139.81887	168.07114	3.67236	0.2468578	0.23808960	2.5781555	21	—	—
70535 1999 TU_{121}	14.7	X	244.33684	68.70933	12.84147	6.97161	0.1283358	0.26368651	2.4084859	21	8 19.4	18.0
70536 1999 TW_{121}	14.5	X	356.61213	193.70119	341.29030	5.41319	0.1139396	0.24530310	2.5273614	21	1 22.6	17.4
70537 1999 TB_{122}	15.9	X	62.56973	162.44218	279.39246	2.34653	0.1319579	0.24096626	2.5575957	21	1 7.8	18.3
70538 1999 TD_{122}	14.4	X	179.08795	270.54037	0.13541	6.73193	0.1814493	0.23807036	2.5782943	21	—	—
70539 1999 TR_{122}	15.2	X	36.02989	300.32727	129.57436	3.00762	0.1309089	0.23651009	2.5896214	21	—	—
70540 1999 TS_{122}	15.9	X	142.21380	279.70060	29.79846	10.03999	0.2172373	0.23875359	2.5733732	21	—	—
70541 1999 TW_{122}	15.6	X	48.55919	253.97218	198.46537	13.79626	0.1788960	0.23973954	2.5663129	21	—	—
70542 1999 TK_{123}	15.5	X	272.12148	253.24865	113.44437	3.35228	0.2069428	0.26012971	2.4303906	21	5 28.9	18.8
70543 1999 TQ_{126}	15.5	X	260.78810	117.51346	191.66432	8.44408	0.2391751	0.25395909	2.4696015	21	2 28.0	19.6
70544 1999 TW_{126}	15.3	X	122.37968	210.53311	293.49609	2.99196	0.0762738	0.25697107	2.4502660	21	6 21.8	18.6
70545 1999 TL_{127}	15.5	X	228.22822	189.24792	191.96140	7.28037	0.1578729	0.25568301	2.4584883	21	5 7.7	19.3
70546 1999 TB_{128}	14.9	X	250.87661	276.10474	209.91787	9.51583	0.1696120	0.22536533	2.6743073	21	10 13.1	18.4
70547 1999 TR_{131}	15.0	X	41.67816	209.70111	341.58444	1.70859	0.1457148	0.25498132	2.4629966	21	5 6.9	17.2
70548 1999 TF_{134}	15.3	X	324.81720	196.20486	257.04268	1.82928	0.1786781	0.22987219	2.6392372	21	—	—
70549 1999 TM_{135}	15.5	X	138.44731	296.72033	352.71611	3.61618	0.0766912	0.23401744	2.6079778	21	—	—
70550 1999 TN_{138}	15.6	X	133.23666	58.51054	255.85746	1.49725	0.0819461	0.23591130	2.5940014	21	—	—
70551 1999 TR_{138}	15.2	X	325.93094	2.97946	206.72670	12.94798	0.1063059	0.24593478	2.5230319	21	1 20.2	18.7
70552 1999 TF_{139}	15.3	X	141.97962	175.97588	308.39163	0.78122	0.0657159	0.21071049	2.7969108	21	6 18.9	19.3
70553 1999 TK_{139}	15.1	X	262.86453	317.99943	214.66601	4.29468	0.1074713	0.23186959	2.6240585	21	—	—
70554 1999 TS_{139}	15.8	X	345.82274	205.58969	246.79110	1.82662	0.1040240	0.23200854	2.6230107	21	—	—
70555 1999 TW_{139}	15.8	X	120.97034	135.20429	208.30615	13.37538	0.1813031	0.23801140	2.5787201	21	—	—
70556 1999 TH_{140}	14.9	X	291.79173	201.51552	18.45733	4.93286	0.1670893	0.24205461	2.5499235	21	—	—
70557 1999 TF_{141}	15.0	X	282.34872	79.80063	28.90895	16.45074	0.1177836	0.22478017	2.6789466	21	11 8.4	18.3
70558 1999 TM_{141}	16.1	X	74.08772	88.47899	329.06213	0.63096	0.0321566	0.24014846	2.5633988	21	—	—
70559 1999 TD_{143}	14.3	X	126.78493	305.37713	22.09378	8.06495	0.1589240	0.28475184	2.2881879	21	—	—
70560 1999 TP_{143}	15.8	X	315.72744	40.58008	219.28601	8.01252	0.0827254	0.25320220	2.4745206	21	3 17.2	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70561 1999 TU_{143}	15.8	X	285.51651	185.38345	272.07198	3.83835	0.0982478	0.27204187	2.3589146	21	11 12.5	18.2
70562 1999 TB_{145}	15.5	X	29.00526	141.16031	239.65663	2.94737	0.0924745	0.23140248	2.6275887	21	—	—
70563 1999 TH_{147}	15.1	X	46.08297	41.64564	41.14140	5.89344	0.1671789	0.23901679	2.5714837	21	—	—
70564 1999 TP_{147}	14.9	X	324.52674	74.64007	33.51295	14.09913	0.0489184	0.23322100	2.6139119	21	—	—
70565 1999 TC_{150}	15.3	X	15.28528	333.92621	145.97136	4.85765	0.1537259	0.23914194	2.5705865	21	—	—
70566 1999 TB_{151}	15.4	X	75.82030	269.83012	14.25693	12.88906	0.2508417	0.22766951	2.6562328	21	11 14.2	19.7
70567 1999 TK_{151}	15.1	X	203.14992	212.89879	56.83378	8.54582	0.0464652	0.23859799	2.5744919	21	—	—
70568 1999 TA_{153}	15.1	X	263.85974	245.74732	191.77785	13.73305	0.1605941	0.21875988	2.7278737	21	8 25.1	19.0
70569 1999 TU_{153}	15.8	X	72.29413	263.76108	144.51060	4.43189	0.1050937	0.23873743	2.5734893	21	—	—
70570 1999 TW_{154}	14.7	X	16.71664	328.28336	128.42150	2.99083	0.0755132	0.23620324	2.5918636	21	—	—
70571 1999 TQ_{156}	14.6	X	238.02773	247.59063	285.17201	13.34105	0.1051836	0.22897507	2.6461264	21	12 6.1	18.3
70572 1999 TA_{157}	15.8	X	236.78553	101.09604	345.23624	5.03753	0.0695444	0.26507125	2.4000906	21	8 22.5	19.0
70573 1999 TD_{161}	15.6	X	251.16954	341.35767	259.81833	2.56449	0.0830486	0.24254459	2.5464881	21	—	—
70574 1999 TR_{161}	15.6	X	184.81499	124.12614	139.93923	3.03162	0.0852214	0.23639088	2.5904919	21	—	—
70575 1999 TZ_{161}	15.1	X	114.77539	43.80471	103.73678	3.79835	0.1455973	0.25472960	2.4646189	21	6 25.9	18.4
70576 1999 TP_{162}	15.8	X	129.07714	47.86664	236.31725	4.80307	0.2233861	0.23527593	2.5986695	21	12 29.8	20.3
70577 1999 TK_{163}	15.1	X	312.12927	53.61654	140.67651	4.94826	0.1215659	0.24141775	2.5544060	21	—	—
70578 1999 TF_{164}	15.3	X	28.60450	192.37619	184.24554	13.39349	0.0866658	0.22830470	2.6513037	21	12 25.9	19.0
70579 1999 TM_{164}	15.7	X	278.99191	0.48444	226.04601	10.19236	0.0126196	0.24315924	2.5421950	21	—	—
70580 1999 TN_{164}	15.1	X	182.20465	281.43966	220.96609	8.69173	0.2440853	0.21543395	2.7558778	21	8 20.3	20.1
70581 1999 TJ_{165}	15.4	X	355.89976	346.49364	344.96293	8.01264	0.1896504	0.26781984	2.3836412	21	9 17.1	17.1
70582 1999 TR_{165}	15.3	X	161.08978	285.30150	268.72036	5.84931	0.1325243	0.26989181	2.3714260	21	10 11.1	19.1
70583 1999 TA_{168}	14.9	X	44.99751	31.12013	214.89723	7.29308	0.2028654	0.26495043	2.4008201	21	8 14.1	17.5
70584 1999 TJ_{168}	15.0	X	202.75744	4.38220	226.79234	5.89386	0.1133164	0.23497196	2.6009102	21	—	—
70585 1999 TA_{170}	15.4	X	121.66121	172.06224	11.63408	2.14965	0.1354046	0.26154372	2.4216229	21	8 21.4	18.9
70586 1999 TE_{170}	15.2	X	183.17363	137.57967	12.81163	8.32929	0.0116273	0.22017742	2.7161528	21	9 13.1	18.8
70587 1999 TF_{170}	15.1	X	45.37943	304.05036	5.40740	5.34080	0.0505603	0.22397907	2.6853306	21	10 16.2	18.5
70588 1999 TA_{173}	15.4	X	323.04053	313.80484	96.01298	4.23597	0.0754314	0.22380844	2.6866952	21	11 1.8	18.7
70589 1999 TO_{173}	15.8	X	152.02894	358.96672	301.25809	3.04480	0.1778135	0.23767448	2.5811565	21	—	—
70590 1999 TY_{173}	15.8	X	86.37016	265.11955	99.32536	2.36300	0.1378020	0.23473679	2.6026470	21	—	—
70591 1999 TU_{175}	15.5	X	163.08561	120.37034	14.17263	7.19316	0.1311579	0.25807329	2.4432843	21	8 1.2	19.3
70592 1999 TD_{177}	15.2	X	255.51999	12.44794	35.50157	3.87655	0.0939051	0.21476043	2.7616366	21	7 19.9	19.1
70593 1999 TD_{178}	14.5	X	147.54070	64.12925	213.39524	13.92862	0.0579924	0.22987915	2.6391839	21	—	—
70594 1999 TH_{178}	15.2	X	103.46724	253.31669	276.60506	5.66585	0.0854328	0.21191592	2.7862943	21	7 4.5	19.2
70595 1999 TT_{180}	13.9	X	64.68319	42.43061	109.44057	3.94500	0.1144434	0.20213843	2.8754344	21	4 24.9	17.5
70596 1999 TV_{180}	15.8	X	146.76971	184.03691	179.42509	5.48166	0.1952384	0.24202830	2.5501083	21	1 30.8	19.6
70597 1999 TE_{182}	14.9	X	266.08438	148.04300	0.56707	17.51272	0.1954405	0.23036987	2.6354347	21	11 23.5	18.5
70598 1999 TP_{185}	15.2	X	179.68520	338.56056	326.71097	13.89073	0.2531031	0.24300201	2.5432915	21	—	—
70599 1999 TC_{186}	14.0	X	16.87883	163.02167	336.04293	16.13555	0.1416816	0.19651031	2.9300778	21	1 22.0	17.5
70600 1999 TC_{187}	15.0	X	309.73150	177.12771	276.39154	10.64430	0.1455525	0.22771434	2.6558841	21	12 4.7	17.7
70601 1999 TM_{187}	15.4	X	115.31917	207.43403	300.71997	5.15184	0.0561478	0.25606289	2.4560561	21	6 15.5	18.5
70602 1999 TD_{188}	14.4	X	261.84341	272.80187	297.18454	11.02052	0.0919787	0.23745963	2.5827132	21	—	—
70603 1999 TA_{189}	14.9	X	163.89325	4.53059	254.66050	14.52663	0.0898319	0.23223057	2.6213386	21	12 31.3	19.0
70604 1999 TA_{190}	14.8	X	97.71585	19.12995	274.10866	11.13603	0.1478799	0.22909392	2.6452112	21	12 10.1	19.0
70605 1999 TN_{191}	15.6	X	105.86998	90.85203	246.92351	10.67403	0.1934495	0.23559431	2.5963278	21	—	—
70606 1999 TC_{195}	15.5	X	249.34595	37.91762	24.58732	5.60200	0.0292739	0.21541502	2.7560392	21	8 11.1	19.3
70607 1999 TU_{195}	14.7	X	342.70701	262.45392	272.51963	8.78159	0.1531787	0.23987133	2.5653728	21	—	—
70608 1999 TC_{197}	15.4	X	25.65650	317.98297	32.81828	6.77063	0.0193038	0.22383256	2.6865022	21	11 8.5	19.0
70609 1999 TF_{198}	15.6	X	37.80798	13.54834	330.90097	3.39350	0.2238811	0.22682451	2.6628257	21	12 17.6	19.1
70610 1999 TH_{198}	14.9	X	96.28046	331.42536	36.93369	22.76037	0.0671443	0.23457648	2.6038326	21	—	—
70611 1999 TB_{199}	15.5	X	174.73360	349.14988	356.16492	3.57564	0.1511715	0.24412309	2.5354992	21	2 2.8	19.4
70612 1999 TH_{200}	15.4	X	38.52179	65.77432	22.30116	13.04073	0.1181875	0.23643235	2.5901890	21	—	—
70613 1999 TG_{201}	16.1	X	88.20211	125.25585	264.02914	2.10235	0.0711784	0.24120112	2.5559352	21	—	—
70614 1999 TF_{204}	15.2	X	236.33058	81.34271	350.44860	4.18227	0.0826064	0.21403640	2.7678611	21	7 29.5	19.1
70615 1999 TZ_{204}	15.1	X	247.44955	165.98911	302.74909	2.74812	0.0536507	0.22104897	2.7090086	21	10 1.9	18.9
70616 1999 TD_{205}	16.2	X	184.47222	304.98391	17.87758	4.00544	0.2474620	0.24411005	2.5355895	21	1 21.3	20.5
70617 1999 TN_{209}	14.4	X	154.46599	198.00985	301.07940	13.71517	0.0921911	0.21096795	2.7946348	21	7 24.0	18.7
70618 1999 TP_{209}	14.7	X	102.02946	322.34474	307.98368	13.30827	0.0855076	0.22321917	2.6914215	21	11 5.5	18.9
70619 1999 TY_{211}	15.4	X	142.48727	141.26122	20.34902	9.57072	0.1435556	0.25882154	2.4385730	21	8 17.9	19.2
70620 1999 TF_{213}	15.3	X	169.84349	151.92164	354.96357	6.18005	0.0658960	0.26387809	2.4073200	21	8 23.9	18.7
70621 1999 TC_{214}	15.5	X	239.01912	284.93227	175.36912	4.00634	0.1728235	0.21869138	2.7284434	21	8 26.4	19.5
70622 1999 TO_{215}	15.2	X	330.04152	308.03374	119.54771	2.80655	0.0779491	0.22784202	2.6548918	21	12 6.1	18.2
70623 1999 TP_{215}	14.2	X	47.21116	79.70482	54.06050	6.48011	0.0411333	0.24587476	2.5234425	21	2 20.3	17.3
70624 1999 TS_{215}	15.8	X	126.45750	161.12254	166.81196	4.11923	0.2806637	0.23858552	2.5745816	21	—	—
70625 1999 TA_{216}	15.0	X	240.31360	355.27651	192.28731	13.24513	0.0900965	0.23157910	2.6262525	21	12 29.6	18.8
70626 1999 TL_{216}	15.3	X	276.85591	333.94891	77.32314	4.57880	0.0619028	0.21873011	2.7281213	21	8 28.2	18.9
70627 1999 TU_{216}	15.9	X	87.14777	28.10535	12.85480	5.41095	0.1265813	0.23854429	2.5748782	21	—	—
70628 1999 TE_{217}	14.3	X	175.67166	125.31976	44.16468	4.40906	0.0404917	0.22075660	2.7114000	21	9 27.2	18.1
70629 1999 TC_{218}	16.2	X	152.03275	162.01446	189.35435	5.29458	0.2133047	0.24182766	2.5515186	21	1 23.1	20.2
70630 1999 TJ_{219}	15.1	X	228.01009	159.91864	329.18707	6.84986	0.0793125	0.26865401	2.3787045	21	10 4.3	18.2
70631 1999 TY_{219}	15.0	X	138.65246	284.37005	350.22395	12.96766	0.1890453	0.23416804	2.6068596	21	12 27.1	19.6
70632 1999 TN_{220}	15.1	X	101.28411	297.31593	347.46050	10.66033	0.1810843	0.23031641	2.6358426	21	12 4.0	19.5
70633 1999 TG_{223}	15.1	X	263.03188	97.40189	22.92759	13.45626	0.0514496	0.22418790	2.6836627	21	11 5.8	18.7
70634 1999 TR_{223}	16.0	X	286.66759	288.83660	61.34849	10.37534	0.2594754	0.26093643	2.4253788	21	5 16.2	19.1
70635 1999 TX_{227}	14.8	X	207.19033	326.12772	213.94156	13.36553	0.1269739	0.22465701	2.6799256	21	11 7.5	18.8
70636 1999 TH_{230}	15.4	X	97.17253	250.46353	87.44147	5.53107	0.1395376	0.23509396	2.6000103	21	—	—
70637 1999 TK_{230}	15.2	X	306.97746	229.49939	202.66810	11.47874	0.1467262	0.22309253	2.6924400	21	10 30.5	18.1
70638 1999 TY_{232}	14.4	X	114.35921	251.62077	117.66663	10.18433	0.0104677	0.23870101	2.5737511	21	—	—
70639 1999 TO_{236}	14.3	X	273.58556	158.19822	100.50149	7.23745	0.0485758	0.24480872	2.5307629	21	1 30.6	17.7
70640 1999 TR_{239}	15.2	X	41.03275	14.19471	102.96675	7.60930	0.1753795	0.24105488	2.5569688	21	1 18.6	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70641 1999 TS_{240}	15.4	X	33.62229	342.23245	94.24902	8.51063	0.0696747	0.23660104	2.5889576	21	—	—
70642 1999 TD_{242}	15.4	X	86.18088	292.60769	166.90252	13.44676	0.0963572	0.24443442	2.5333458	21	3 6.7	18.5
70643 1999 TE_{242}	14.8	X	73.86815	358.84813	77.70064	15.18305	0.0469773	0.24095789	2.5576549	21	1 12.3	18.1
70644 1999 TU_{242}	15.2	X	123.51510	214.51491	145.89754	8.36357	0.0677310	0.23813042	2.5778608	21	—	—
70645 1999 TE_{243}	15.5	X	137.95706	220.81317	169.50716	11.68319	0.2168959	0.24348315	2.5399399	21	2 26.6	19.2
70646 1999 TE_{244}	15.9	X	296.25126	280.88511	10.06443	5.97830	0.1217294	0.25606658	2.4560325	21	3 29.1	18.9
70647 1999 TN_{244}	15.6	X	250.31145	141.72930	13.05007	7.99028	0.0566664	0.27624561	2.3349224	21	12 15.9	18.5
70648 1999 TY_{245}	15.3	X	171.95591	180.76128	159.39211	14.21999	0.1770121	0.24270115	2.5453929	21	1 24.7	19.5
70649 1999 TB_{246}	15.1	X	292.35789	274.46612	172.11590	7.53301	0.2114343	0.22247282	2.6974376	21	10 16.1	18.0
70650 1999 TM_{247}	15.1	X	188.95967	331.75985	97.88732	4.87497	0.1040301	0.25405936	2.4689517	21	5 31.8	18.7
70651 1999 TV_{248}	15.1	X	72.87576	175.82981	205.62581	11.56560	0.1748068	0.23387184	2.6090601	21	—	—
70652 1999 TB_{249}	14.8	X	180.62872	207.50678	210.85120	14.87580	0.1297289	0.20538090	2.8450900	21	5 11.7	19.3
70653 1999 TP_{254}	14.2	X	183.99367	150.02562	80.21270	14.63210	0.0633953	0.23084709	2.6318014	21	12 20.1	18.0
70654 1999 TN_{255}	15.6	X	291.77340	7.25194	188.02386	2.74768	0.1086172	0.24316310	2.5421681	21	—	—
70655 1999 TR_{256}	15.3	X	47.22142	211.43009	5.35424	6.43585	0.1138225	0.25956412	2.4339199	21	6 22.2	18.0
70656 1999 TF_{257}	15.6	X	306.72160	311.05615	304.81513	5.11641	0.1348944	0.25432384	2.4672396	21	2 20.8	18.9
70657 1999 TW_{258}	15.6	X	287.44147	194.79748	25.88552	4.59303	0.0102534	0.24327099	2.5414164	21	1 3.6	19.0
70658 1999 TZ_{260}	15.8	X	9.95462	151.88719	159.51898	2.68782	0.2246807	0.27077676	2.3662564	21	9 24.6	17.3
70659 1999 TZ_{265}	15.2	X	206.36452	15.52964	247.84098	11.96117	0.2478764	0.24356317	2.5393836	21	—	—
70660 1999 TV_{270}	15.2	X	274.28419	140.60627	274.96372	8.52748	0.0678959	0.21914788	2.7246530	21	8 23.2	19.0
70661 1999 TS_{274}	16.2	X	326.33344	121.95067	189.12768	1.97351	0.1913533	0.26522308	2.3991745	21	6 1.7	18.4
70662 1999 TR_{282}	15.3	X	138.93487	121.10636	159.81319	4.68384	0.1272431	0.23291046	2.6162348	21	—	—
70663 1999 TG_{284}	15.1	X	242.09460	279.90962	177.59553	8.54605	0.1143478	0.21796295	2.7345189	21	9 2.1	19.1
70664 1999 TE_{286}	16.3	X	313.15222	352.56999	311.47475	6.26044	0.1080282	0.25938783	2.4350226	21	5 10.2	19.2
70665 1999 TF_{286}	15.9	X	209.89109	140.45858	267.73106	5.38093	0.0592630	0.25736059	2.4477930	21	5 26.9	19.1
70666 1999 TW_{286}	15.1	X	258.19566	242.52529	212.03941	21.00422	0.0583899	0.22215643	2.6999981	21	9 24.8	18.9
70667 1999 TJ_{287}	15.5	X	101.71345	187.98509	294.48544	3.15972	0.1046418	0.25127918	2.4871294	21	4 28.6	18.6
70668 1999 TB_{288}	15.5	X	202.25593	252.30131	52.37174	5.81804	0.1652408	0.24397855	2.5365005	21	1 10.6	19.6
70669 1999 TT_{290}	15.4	X	84.99679	207.01276	143.67158	4.89181	0.1424060	0.23222577	2.6213747	21	—	—
70670 1999 TU_{290}	14.3	X	167.69335	60.20987	94.91981	8.93267	0.1973164	0.21289743	2.7777241	21	8 31.4	19.1
70671 1999 TC_{291}	15.7	X	99.63219	232.29120	172.02633	9.82085	0.1617896	0.23878704	2.5731329	21	1 21.0	18.9
70672 1999 TM_{293}	15.0	X	44.66482	167.89508	337.65271	4.59372	0.2163183	0.24282546	2.5445241	21	3 11.9	17.0
70673 1999 TR_{312}	14.6	X	10.71844	4.21526	72.51920	16.00964	0.0561226	0.23519919	2.5992348	21	—	—
70674 1999 TD_{320}	15.6	X	218.26169	128.92608	317.92534	5.79843	0.0578343	0.26151064	2.4218271	21	7 31.1	18.8
70675 1999 TY_{321}	14.3	X	232.31878	218.78344	8.53852	15.03356	0.0794510	0.23413185	2.6071282	21	—	—
70676 1999 UM	16.0	X	209.79501	91.81572	5.28367	2.48017	0.1445874	0.26046296	2.4283171	21	7 28.2	19.6
70677 1999 UU	15.1	X	111.78166	146.14080	214.06286	14.21646	0.1962483	0.23740148	2.5831350	21	—	—
70678 1999 UB_{2}	15.4	X	315.63950	277.10927	88.89352	6.59334	0.0891022	0.21897379	2.7260969	21	8 20.5	18.7
70679 Urzidil	16.3	X	29.01259	156.06726	222.35019	4.77638	0.2128517	0.23087534	2.6315867	21	—	—
70680 1999 UN_{4}	13.8	X	33.16493	74.22511	23.95583	14.50769	0.1501070	0.23726256	2.5841432	21	—	—
70681 1999 US_{4}	15.0	X	115.80300	147.36949	114.86029	3.45117	0.0288225	0.22671849	2.6636557	21	11 12.9	18.6
70682 1999 UN_{8}	14.8	X	112.01713	277.71133	41.23589	13.17953	0.1486174	0.23279522	2.6170981	21	—	—
70683 1999 UT_{8}	14.1	X	256.95520	279.82196	228.54923	23.53442	0.2175139	0.22434660	2.6823970	21	11 11.9	17.8
70684 1999 UD_{9}	14.6	X	28.92427	264.90621	45.72610	7.81602	0.0669909	0.21984588	2.7188829	21	9 30.6	18.1
70685 1999 UR_{12}	14.3	X	25.92582	36.52904	13.46458	15.11906	0.1666996	0.23359569	2.6111160	21	—	—
70686 1999 UK_{14}	15.6	X	40.75747	302.53602	175.35954	4.63891	0.1914237	0.24026697	2.5625558	21	1 17.9	17.7
70687 1999 UE_{15}	15.8	X	140.26499	295.84405	46.05807	6.43877	0.2613521	0.24079498	2.5588084	21	1 7.6	19.6
70688 1999 UZ_{15}	15.2	X	5.27928	240.82970	89.01772	2.35599	0.0872545	0.22058229	2.7128282	21	9 20.5	18.4
70689 1999 UU_{16}	15.4	X	3.64992	78.89428	29.98362	6.39706	0.1634585	0.23476226	2.6024588	21	—	—
70690 1999 UF_{17}	14.7	X	314.13669	280.68527	227.69875	12.79109	0.0974273	0.23437290	2.6053403	21	—	—
70691 1999 UH_{18}	15.5	X	321.94377	286.55234	42.47927	7.03627	0.1479246	0.26276826	2.4140936	21	6 28.7	17.9
70692 1999 UY_{19}	15.7	X	106.68130	178.85829	190.76204	13.16668	0.1352712	0.24077616	2.5589417	21	—	—
70693 1999 UR_{23}	14.8	X	6.09467	111.96303	331.75323	6.50698	0.0784116	0.28098069	2.3086162	21	—	—
70694 1999 US_{23}	14.8	X	218.79443	220.10310	234.40698	5.55017	0.0808940	0.26351350	2.4095400	21	8 6.3	18.2
70695 1999 UL_{25}	14.8	X	356.02983	232.53449	257.56660	3.02168	0.0699929	0.24053739	2.5606349	21	—	—
70696 1999 UA_{26}	15.0	X	136.38359	267.69817	12.67134	12.94003	0.0410828	0.23168309	2.6254666	21	12 30.9	19.0
70697 1999 UR_{26}	14.7	X	28.42022	272.18848	15.35390	12.56751	0.1673345	0.22015104	2.7163698	21	9 12.7	17.8
70698 1999 UW_{26}	15.1	X	120.41687	311.46764	17.09442	15.47074	0.1013264	0.23575237	2.5951671	21	—	—
70699 1999 US_{27}	15.7	X	108.17394	1.59748	207.75618	2.11730	0.1174877	0.26681470	2.3896239	21	9 6.7	19.0
70700 1999 UQ_{28}	15.0	X	301.13081	322.86095	30.89195	8.40350	0.0242160	0.26200502	2.4187797	21	7 21.4	18.1
70701 1999 UT_{34}	15.9	X	74.32460	275.26081	206.67551	2.89899	0.1296426	0.24579974	2.5239560	21	3 23.5	18.7
70702 1999 UQ_{36}	15.9	X	112.38703	172.04094	324.14540	2.82623	0.1524183	0.25617640	2.4553306	21	6 8.1	19.2
70703 1999 UO_{38}	14.3	X	229.49710	212.94502	334.88113	6.47799	0.0457607	0.27663790	2.3327146	21	—	—
70704 1999 UG_{39}	15.1	X	158.83813	128.98868	242.37857	13.52812	0.0596289	0.24435805	2.5338736	21	2 3.2	19.0
70705 1999 UK_{40}	15.8	X	128.79976	84.36318	215.61835	13.85008	0.1341320	0.23429894	2.6058885	21	—	—
70706 1999 UM_{41}	15.7	X	267.66546	128.06797	351.72264	3.90159	0.0261764	0.22680695	2.6629631	21	11 16.9	19.2
70707 1999 UC_{42}	14.9	X	269.48906	221.47609	251.78813	6.55121	0.0272052	0.22706076	2.6609782	21	11 11.2	18.5
70708 1999 UR_{43}	14.5	X	313.86021	253.80798	235.85129	23.29206	0.2894513	0.22986004	2.6393302	21	—	—
70709 1999 UB_{44}	14.8	X	171.38979	228.24010	281.29091	3.76787	0.1009093	0.21550078	2.7553080	21	8 23.2	19.1
70710 Chuckfellows	15.1	X	29.41293	157.49120	319.84567	4.00897	0.0524915	0.23999914	2.5644619	21	1 1.6	18.2
70711 Arlinbartels	15.5	X	267.51995	314.71663	112.43508	3.16551	0.1896699	0.26334484	2.4105687	21	8 18.1	18.4
70712 Danieljoanna	16.0	X	14.61348	21.69190	2.40590	12.07220	0.1917709	0.22815836	2.6524373	21	—	—
70713 Sethmacfarlane	15.3	X	5.96772	132.72528	357.10726	7.44063	0.1413178	0.23767590	2.5811463	21	—	—
70714 Rizk	15.2	X	114.23510	298.81699	352.91180	7.10126	0.0607382	0.23054290	2.6341159	21	12 19.4	19.1
70715 Allancheuvront	15.6	X	72.84476	10.81782	82.58882	5.58823	0.1988957	0.24154390	2.5535165	21	2 23.1	18.2
70716 Mehall	16.1	X	156.37814	218.28626	95.88833	6.08811	0.2234666	0.23954830	2.5676785	21	—	—
70717 1999 UB_{51}	15.2	X	90.66992	247.16085	97.62228	14.59154	0.1815535	0.23424551	2.6062848	21	—	—
70718 HEAF	15.2	X	110.22022	233.13325	118.05495	11.88107	0.2305417	0.23560508	2.5962487	21	—	—
70719 1999 UB_{52}	15.4	X	103.60010	246.83555	133.39181	11.80442	0.1862005	0.23908259	2.5710119	21	—	—
70720 Davidskillman	13.6	X	263.02714	69.20181	104.45759	22.86490	0.0283052	0.22898040	2.6460853	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70721 1999 VD	16.0	X	124.53760	193.12347	159.97751	5.34745	0.1038562	0.23774230	2.5806657	21	—	—
70722 1999 VY	15.9	X	61.89346	50.71868	18.42694	7.55388	0.2012508	0.23902706	2.5714101	21	—	—
70723 1999 VK_1	15.1	X	88.09469	14.78509	49.87173	4.19553	0.0721988	0.24122776	2.5557470	21	1 20.3	18.2
70724 1999 VS_1	15.1	X	318.32057	164.46227	227.58880	7.24322	0.1723603	0.22025156	2.7155432	21	9 16.9	18.0
70725 1999 VH_2	14.5	X	73.60235	77.92512	319.76937	2.74612	0.1673789	0.23600985	2.5932793	21	—	—
70726 1999 VS_2	15.4	X	148.56281	254.16379	37.52854	14.34590	0.1956780	0.23382688	2.6093946	21	—	—
70727 1999 VX_3	14.9	X	183.31779	354.00769	220.83981	12.75441	0.0953911	0.22465598	2.6799338	21	11 27.8	18.9
70728 Gal–Edd	15.2	X	307.61088	283.50264	97.90946	3.15313	0.2237110	0.26570252	2.3962876	21	8 10.9	17.3
70729 1999 VU_4	14.7	X	355.59944	274.24869	40.01933	5.61001	0.0422760	0.21651007	2.7467385	21	8 13.5	18.3
70730 1999 VN_5	14.9	X	70.62374	181.75652	226.49342	7.25858	0.1903022	0.23633534	2.5908977	21	—	—
70731 1999 VA_6	14.9	X	267.21907	225.05975	229.42936	12.49729	0.2240012	0.21822486	2.7323306	21	9 9.2	18.9
70732 1999 VG_6	15.1	X	126.52005	142.46096	234.36305	2.96197	0.2771986	0.24031931	2.5621838	21	2 5.6	18.8
70733 1999 VV_6	15.1	X	279.72308	296.41277	68.51421	3.37176	0.2101767	0.25912969	2.4366394	21	6 3.6	18.4
70734 1999 VS_8	15.2	X	93.34544	277.94445	120.44943	13.58195	0.2117250	0.23788673	2.5796210	21	1 13.0	18.0
70735 1999 VZ_8	14.3	X	92.72976	348.11528	84.07083	13.44137	0.2353952	0.24302715	2.5431161	21	3 9.1	17.6
70736 1999 VM_{10}	14.5	X	6.47653	9.60808	85.24565	8.42731	0.2905219	0.23111680	2.6297535	21	—	—
70737 Stenflo	15.3	X	18.75752	137.25407	250.77567	4.75723	0.2215238	0.22912448	2.6449759	21	—	—
70738 1999 VF_{11}	15.4	X	87.55288	114.61533	221.96407	13.61033	0.2035869	0.23228866	2.6209016	21	—	—
70739 1999 VN_{17}	15.7	X	118.66869	291.77377	284.62265	1.87926	0.1616850	0.22017865	2.7161427	21	9 26.8	19.9
70740 1999 VG_{18}	15.8	X	24.48453	74.03466	287.93128	1.55758	0.1484436	0.22752410	2.6573644	21	12 10.7	19.1
70741 1999 VO_{18}	15.0	X	304.25379	118.11048	305.14661	1.65395	0.0481061	0.22371389	2.6874522	21	10 21.6	18.5
70742 1999 VF_{19}	15.5	X	2.78957	211.76868	233.48576	3.35651	0.1456557	0.23089109	2.6314670	21	—	—
70743 1999 VG_{19}	14.7	X	223.34067	206.29257	229.65850	9.84097	0.1298707	0.21116287	2.7929147	21	7 12.2	19.2
70744 Maffucci	14.8	X	257.10744	144.31334	255.66969	10.51117	0.1601057	0.26084153	2.4259670	21	6 30.4	18.2
70745 Aleserpieri	14.5	X	98.21515	325.70438	71.70904	10.44774	0.0598965	0.23830886	2.5765738	21	—	—
70746 1999 VQ_{22}	13.9	X	70.18648	222.79207	234.70616	11.90648	0.1459912	0.24262427	2.5459305	21	2 7.9	16.9
70747 1999 VT_{22}	13.9	X	331.53346	117.80118	328.54589	8.52768	0.1422248	0.22819819	2.6521286	21	—	—
70748 1999 VV_{22}	13.8	X	180.94448	316.74796	221.28811	36.25325	0.1337814	0.21600156	2.7510477	21	10 5.4	18.5
70749 1999 VS_{23}	14.9	X	105.77433	316.68113	121.89666	4.21390	0.1842607	0.24445764	2.5331854	21	3 22.0	18.1
70750 1999 VJ_{24}	13.7	X	219.04502	352.87047	48.71066	10.36681	0.2056502	0.25563400	2.4588025	21	5 20.7	17.7
70751 1999 VZ_{24}	13.8	X	245.89232	16.40459	76.91118	10.40259	0.1346725	0.21496343	2.7598978	21	9 4.7	17.9
70752 1999 VB_{25}	14.6	X	343.55775	307.06485	90.68509	13.90642	0.1678347	0.22276689	2.6950632	21	11 23.8	17.4
70753 1999 VL_{26}	15.2	X	45.01936	326.84087	73.46074	3.10955	0.1227474	0.23169385	2.6253853	21	—	—
70754 1999 VO_{26}	14.6	X	333.88265	333.18040	61.06575	3.72047	0.0947070	0.22186289	2.7023791	21	10 27.6	17.6
70755 1999 VB_{27}	15.2	X	288.57112	268.59795	226.38005	1.44263	0.1482801	0.22650035	2.6653656	21	12 23.6	17.9
70756 1999 VV_{28}	14.5	X	47.15448	235.54017	237.43851	7.44428	0.0783391	0.24024328	2.5627242	21	1 20.0	17.5
70757 1999 VL_{29}	14.3	X	232.78786	138.45801	55.92815	9.88495	0.0690773	0.22857547	2.6492095	21	—	—
70758 1999 VB_{30}	14.8	X	236.31546	290.91521	222.69317	2.91497	0.1481659	0.22254172	2.6968808	21	11 3.1	18.4
70759 1999 VP_{30}	14.7	X	0.07204	95.14692	233.87612	15.42750	0.1700404	0.21877348	2.7277607	21	9 6.4	17.9
70760 1999 VJ_{31}	14.6	X	356.69732	287.06632	63.81603	10.54761	0.1526319	0.26606305	2.3941224	21	10 22.2	16.9
70761 1999 VP_{32}	15.2	X	304.46186	242.75056	238.90493	13.19051	0.0392240	0.22854242	2.6494649	21	—	—
70762 1999 VZ_{32}	14.7	X	125.39842	305.62764	239.75897	6.77495	0.1572867	0.21168632	2.7883087	21	8 22.7	19.3
70763 1999 VA_{33}	14.8	X	1.75466	271.19390	228.95384	0.81790	0.1544662	0.19092577	2.9869390	21	—	—
70764 1999 VH_{33}	15.3	X	48.88084	97.75614	240.13147	11.86862	0.1916149	0.22646595	2.6656356	21	12 17.7	19.0
70765 1999 VK_{33}	15.4	X	340.81624	47.77037	63.67026	1.44933	0.2334233	0.22998120	2.6384031	21	—	—
70766 1999 VO_{33}	15.1	X	299.43390	272.76844	211.47347	2.62870	0.0300837	0.22813518	2.6526169	21	—	—
70767 1999 VP_{33}	14.4	X	312.58642	306.93800	238.15245	12.37090	0.0685006	0.19105858	2.9855546	21	—	—
70768 1999 VS_{35}	14.1	X	171.02331	234.10224	67.41888	15.50816	0.1023235	0.23508872	2.6000489	21	—	—
70769 1999 VL_{36}	14.7	X	233.22358	197.16485	237.63408	3.07512	0.1042246	0.21240127	2.7820481	21	7 25.3	18.7
70770 1999 VN_{36}	14.6	X	58.39872	64.16319	59.47557	7.64282	0.3015004	0.23919835	2.5701823	21	3 29.9	16.7
70771 1999 VA_{37}	13.6	X	334.00959	116.23275	67.89075	17.72406	0.1048328	0.23767104	2.5811815	21	1 3.1	17.1
70772 1999 VD_{37}	15.4	X	117.89774	14.80837	57.89375	5.86909	0.2265279	0.24345247	2.5401533	21	4 4.4	19.1
70773 1999 VK_{37}	14.8	X	209.89719	233.88774	240.35412	3.96643	0.1134398	0.21290040	2.7776983	21	8 17.6	19.0
70774 1999 VS_{37}	13.8	X	243.16017	110.58664	72.57714	4.83961	0.1189324	0.18030864	3.1030709	21	12 13.9	18.1
70775 1999 VO_{38}	15.2	X	123.29660	329.41164	70.88428	5.13869	0.1184485	0.24149622	2.5538526	21	2 13.3	18.6
70776 1999 VH_{39}	14.9	X	288.43782	230.86781	255.89119	2.61849	0.0193174	0.22693421	2.6619674	21	12 25.1	18.3
70777 1999 VG_{40}	14.3	X	254.21482	129.33202	182.30424	1.73169	0.0906202	0.19585810	2.9365790	21	3 17.2	18.4
70778 1999 VH_{40}	14.5	X	329.47605	108.53352	16.76532	2.65812	0.0281218	0.23330111	2.6133135	21	—	—
70779 1999 VT_{41}	15.1	X	104.01905	276.15679	35.00260	15.01966	0.0884587	0.23261381	2.6184586	21	—	—
70780 1999 VD_{43}	15.1	X	235.98279	345.14803	88.17282	3.94096	0.0489060	0.21375708	2.7702718	21	8 4.1	18.9
70781 Donnelly	15.4	X	332.38453	68.53240	10.87014	3.21498	0.1290784	0.22937613	2.6430410	21	12 28.0	18.2
70782 Vinceelliott	15.3	X	74.48572	325.81198	35.71273	2.91932	0.1263269	0.23434248	2.6055658	21	—	—
70783 Kenwilliams	14.8	X	34.50191	51.52501	352.74056	3.56447	0.1315729	0.23280984	2.6169886	21	—	—
70784 1999 VO_{45}	15.5	X	314.27037	270.23072	0.90394	4.30602	0.1028599	0.25292040	2.4763583	21	3 29.8	18.4
70785 1999 VW_{46}	14.8	X	205.87649	324.80584	218.68588	23.60837	0.1966129	0.27017101	2.3697920	21	11 9.4	18.4
70786 1999 VY_{46}	14.5	X	120.72933	275.41263	43.62138	19.39507	0.1455561	0.23451400	2.6042952	21	—	—
70787 1999 VE_{47}	14.4	X	133.61302	332.30727	50.93089	14.50651	0.1620147	0.24250679	2.5467527	21	2 14.2	18.3
70788 1999 VQ_{47}	14.5	X	105.87040	332.01798	350.94177	8.92278	0.1223846	0.23267479	2.6180011	21	—	—
70789 1999 VF_{49}	14.5	X	313.76980	206.77967	236.80217	13.94917	0.0785601	0.22602722	2.6690839	21	12 1.4	17.7
70790 1999 VS_{49}	15.3	X	286.05319	113.57557	281.20630	4.79085	0.1050612	0.21648519	2.7469489	21	8 8.4	18.8
70791 1999 VX_{49}	15.8	X	63.26439	142.92521	277.76579	1.11406	0.1467460	0.23671908	2.5880969	21	—	—
70792 1999 VK_{50}	15.3	X	309.53768	121.24234	23.48135	3.99122	0.0999045	0.23118237	2.6292562	21	—	—
70793 1999 VW_{50}	14.1	X	241.41118	56.12919	45.09489	8.58070	0.0516401	0.21757322	2.7377835	21	9 19.9	17.9
70794 1999 VX_{51}	14.5	X	279.71052	212.72035	42.86497	6.61787	0.1261757	0.24425214	2.5346060	21	1 26.3	18.2
70795 1999 VF_{53}	14.7	X	80.42658	353.30619	63.61667	5.43912	0.2680878	0.23652113	2.5895408	21	1 27.7	17.2
70796 1999 VZ_{53}	15.1	X	77.97169	278.75994	29.48903	2.74993	0.0395838	0.22677945	2.6631783	21	11 24.8	18.6
70797 1999 VF_{54}	15.7	X	136.13204	140.43495	221.57754	1.39188	0.1729549	0.24140826	2.5544729	21	1 16.1	19.1
70798 1999 VJ_{54}	15.4	X	311.47068	40.25729	38.97557	2.23060	0.0039903	0.22680935	2.6629443	21	11 25.2	18.8
70799 1999 VY_{55}	15.4	X	178.47165	113.17351	210.93819	6.87263	0.1968173	0.24314021	2.5423277	21	1 12.6	19.6
70800 1999 VE_{56}	14.3	X	122.45873	110.67558	45.25229	9.14386	0.1593897	0.21002069	2.8030316	21	7 18.6	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70801 1999 VF_{61}	15.4	X	308.78499	319.54844	56.99601	3.20833	0.2111288	0.26442079	2.4040251	21	8 8.2	17.5
70802 1999 VV_{61}	15.0	X	78.52184	282.51878	226.97108	4.32887	0.0651265	0.20480704	2.8504021	21	5 2.4	18.8
70803 1999 VH_{62}	15.0	X	230.46336	234.25698	222.87816	4.03490	0.0806182	0.21655389	2.7463680	21	8 22.1	19.1
70804 1999 VL_{62}	15.9	X	317.33053	199.02913	210.53841	2.00929	0.1782493	0.22257373	2.6966222	21	10 13.7	18.3
70805 1999 VV_{62}	15.5	X	5.62613	352.65211	52.84917	10.87059	0.1768561	0.22840328	2.6505408	21	—	—
70806 1999 VD_{64}	14.7	X	11.44229	45.39410	49.75643	13.21256	0.1645529	0.23379073	2.6096636	21	—	—
70807 1999 VK_{64}	15.1	X	8.68907	277.31394	52.65448	11.23549	0.0393721	0.21937486	2.7227733	21	9 26.8	18.7
70808 1999 VJ_{66}	15.3	X	283.78233	5.71549	53.15024	10.40634	0.1845549	0.21851481	2.7299130	21	9 1.8	18.9
70809 1999 VF_{68}	15.6	X	122.77900	129.67368	226.27840	5.51755	0.1433568	0.23732354	2.5837005	21	—	—
70810 1999 VM_{68}	14.7	X	57.60096	283.81594	59.19631	13.04673	0.2244070	0.22867876	2.6484117	21	—	—
70811 1999 VO_{68}	14.5	X	54.32624	277.57140	67.03422	10.48617	0.1448100	0.22705264	2.6610417	21	12 26.3	18.2
70812 1999 VB_{69}	15.4	X	103.73721	89.33764	220.63253	11.00219	0.1768505	0.23174785	2.6249774	21	—	—
70813 1999 VR_{69}	14.9	X	45.17799	342.38082	44.11862	9.03535	0.1690770	0.23166770	2.6255829	21	—	—
70814 1999 VT_{71}	15.6	X	112.19763	164.18150	198.80050	1.99830	0.1254164	0.23675344	2.5878465	21	—	—
70815 1999 VR_{72}	14.8	X	86.22167	330.98246	59.82518	9.75579	0.1868438	0.23717054	2.5848115	21	—	—
70816 1999 VY_{73}	15.6	X	119.11760	182.71523	185.97501	5.90233	0.0659071	0.24063235	2.5599611	21	—	—
70817 1999 VS_{75}	15.9	X	291.21182	114.27366	211.19189	3.46784	0.1028260	0.20956780	2.8070685	21	5 15.5	19.8
70818 1999 VJ_{77}	15.1	X	15.96422	133.93133	7.79869	4.54883	0.2252724	0.23832940	2.5764257	21	—	—
70819 1999 VM_{77}	14.8	X	249.04514	8.50087	244.47961	14.24512	0.0748678	0.23955757	2.5676123	21	—	—
70820 1999 VS_{79}	15.5	X	96.04060	126.21087	312.17574	1.97085	0.0568259	0.24389316	2.5370925	21	2 14.7	18.8
70821 1999 VX_{79}	15.6	X	213.98895	78.32652	346.23551	2.22364	0.0780186	0.25711343	2.4493614	21	6 22.7	19.1
70822 1999 VZ_{79}	15.1	X	93.47528	240.41662	31.48642	13.50772	0.1562633	0.22490486	2.6779563	21	11 8.4	19.2
70823 1999 VH_{81}	14.9	X	246.13597	260.84057	137.24935	4.52119	0.1037678	0.21057842	2.7980801	21	6 23.3	19.1
70824 1999 VL_{81}	14.8	X	53.98758	284.64112	213.23046	12.34598	0.2313822	0.23990992	2.5650977	21	3 22.1	17.2
70825 1999 VZ_{81}	15.0	X	302.60291	29.70841	32.62230	5.55653	0.0902962	0.22388497	2.6860830	21	10 15.3	18.0
70826 1999 VA_{82}	15.3	X	119.99937	147.49142	176.92780	2.11114	0.0537789	0.23546516	2.5972770	21	—	—
70827 1999 VN_{82}	15.6	X	15.07732	253.53916	207.29912	12.66288	0.1207849	0.23687672	2.5869485	21	—	—
70828 1999 VV_{85}	15.9	X	75.34932	39.46239	28.35902	6.42013	0.2668771	0.23927385	2.5696416	21	2 2.5	18.3
70829 1999 VX_{86}	14.3	X	38.06015	23.04918	129.73258	13.69178	0.0975385	0.24410200	2.5356452	21	3 6.4	17.2
70830 1999 VZ_{86}	14.4	X	266.82118	26.26751	134.11418	15.29327	0.0271911	0.22917999	2.6445488	21	—	—
70831 1999 VG_{89}	15.3	X	48.99196	156.31713	226.13364	11.81373	0.1217402	0.23089655	2.6314255	21	—	—
70832 1999 VM_{90}	15.4	X	77.03487	112.55500	211.82652	13.69535	0.1322609	0.23052320	2.6342660	21	12 24.7	19.5
70833 1999 VP_{90}	15.3	X	206.15357	259.93902	207.55032	5.76463	0.1530417	0.26055967	2.4277162	21	8 3.9	19.2
70834 1999 VU_{90}	15.1	X	41.04042	9.45326	40.25612	5.07848	0.1462203	0.23428900	2.6059622	21	—	—
70835 1999 VY_{90}	15.6	X	33.58868	45.91775	41.43437	12.86608	0.0535823	0.23764343	2.5813814	21	—	—
70836 1999 VW_{91}	15.7	X	116.91907	175.34862	202.37560	11.46598	0.0749557	0.24214553	2.5492852	21	—	—
70837 1999 VX_{91}	16.1	X	178.35914	305.87824	19.31790	14.52764	0.1914940	0.24509867	2.5287666	21	1 18.4	20.4
70838 1999 VA_{94}	15.9	X	137.99673	262.18721	44.42006	3.88397	0.1956373	0.23728602	2.5839729	21	—	—
70839 1999 VR_{95}	15.3	X	333.86236	163.89747	38.42989	4.26222	0.1017382	0.24550789	2.5259558	21	1 27.2	18.4
70840 1999 VO_{96}	15.6	X	175.19870	182.60936	54.49220	3.43527	0.0381481	0.22970920	2.6404855	21	12 20.6	19.4
70841 1999 VS_{96}	15.1	X	186.75060	254.77222	44.07285	11.28882	0.1285590	0.24027119	2.5625258	21	—	—
70842 1999 VX_{96}	15.0	X	253.32758	327.95896	217.60282	3.51141	0.0515691	0.23207819	2.6224859	21	—	—
70843 1999 VD_{99}	16.0	X	112.57954	165.69337	165.87190	0.60992	0.1559846	0.23459017	2.6037314	21	—	—
70844 1999 VN_{105}	15.7	X	356.01281	285.46304	50.34836	4.04432	0.0780325	0.21805933	2.7337131	21	9 13.6	18.9
70845 1999 VO_{106}	15.9	X	101.68349	86.78531	228.01543	2.49636	0.0977040	0.22916116	2.6446937	21	—	—
70846 1999 VK_{108}	15.7	X	199.16057	19.94001	216.36931	2.88939	0.0522812	0.22966398	2.6408321	21	—	—
70847 1999 VM_{112}	15.3	X	138.42599	90.89629	280.41426	1.08318	0.1478377	0.23979320	2.5659300	21	1 27.5	18.7
70848 1999 VO_{112}	14.4	X	306.17560	135.04427	52.20590	1.25088	0.0592371	0.18939308	3.0030321	21	—	—
70849 1999 VP_{112}	14.7	X	160.02540	2.40447	64.70424	2.98637	0.0585754	0.20239844	2.8729712	21	4 27.7	18.7
70850 Schur	14.7	X	283.48788	111.99308	294.15159	4.09304	0.0437853	0.21642384	2.7474680	21	8 29.2	18.3
70851 1999 VW_{113}	15.5	X	248.04906	23.19768	343.06268	7.38422	0.1165295	0.25648451	2.4533638	21	5 8.2	19.1
70852 1999 VY_{113}	15.4	X	88.25437	155.53374	244.67324	12.45790	0.1481297	0.23952922	2.5678149	21	—	—
70853 1999 VN_{114}	15.2	X	132.62178	64.43197	285.64386	8.44962	0.0994937	0.23973259	2.5663625	21	—	—
70854 1999 VP_{115}	15.8	X	5.52968	234.01825	83.87046	3.04603	0.0702291	0.21717988	2.7410881	21	9 2.9	19.2
70855 1999 VS_{117}	16.3	X	148.23737	264.81423	30.19593	3.44785	0.0648351	0.23619115	2.5919521	21	—	—
70856 1999 VD_{121}	15.1	X	32.06561	248.38032	31.73297	14.50973	0.1885095	0.21941668	2.7224273	21	9 14.9	18.4
70857 1999 VH_{122}	15.3	X	202.92817	68.69671	75.70431	5.31841	0.0372552	0.21847689	2.7302289	21	9 28.8	19.1
70858 1999 VH_{126}	15.7	X	359.32109	5.54334	68.39545	1.09014	0.0933124	0.23293956	2.6160169	21	—	—
70859 1999 VN_{130}	15.0	X	22.38128	259.46154	37.28483	7.44286	0.0714453	0.21749606	2.7384309	21	9 2.6	18.5
70860 1999 VW_{133}	15.1	X	296.22002	161.76328	238.03918	4.80945	0.0295086	0.21867416	2.7285865	21	9 8.6	18.8
70861 1999 VN_{134}	15.3	X	274.21371	286.96512	273.32722	0.79399	0.0335930	0.23593996	2.5937914	21	—	—
70862 1999 VJ_{139}	15.3	X	263.15782	257.58244	356.98582	4.09357	0.0979270	0.24412068	2.5355159	21	1 8.8	19.0
70863 1999 VX_{143}	15.3	X	5.13955	104.34522	238.44903	7.05487	0.1116357	0.22179369	2.7029412	21	10 6.6	18.4
70864 1999 VB_{146}	15.2	X	359.99016	24.96169	70.20989	3.05022	0.0775877	0.27979070	2.3151574	21	—	—
70865 1999 VP_{147}	15.6	X	23.15477	205.07983	294.33467	2.33426	0.2208162	0.24110271	2.5566306	21	1 8.9	17.5
70866 1999 VM_{149}	15.2	X	270.07225	186.42955	197.46400	4.07213	0.0840742	0.21269104	2.7795208	21	7 6.4	19.0
70867 1999 VA_{150}	15.2	X	13.84036	130.89672	239.76212	2.95269	0.1000230	0.22610129	2.6685009	21	11 29.3	18.4
70868 1999 VL_{151}	15.4	X	131.41636	300.30334	275.59867	2.23124	0.0788967	0.21829899	2.7317119	21	10 3.4	19.3
70869 1999 VR_{154}	16.1	X	9.98155	217.67973	56.89315	2.70543	0.2089344	0.21441516	2.7646005	21	7 17.1	18.4
70870 1999 VL_{156}	14.9	X	38.97014	228.59519	52.51528	9.57620	0.1267358	0.21669502	2.7451754	21	9 15.8	18.4
70871 1999 VS_{156}	15.4	X	45.06865	268.47973	21.03648	1.97942	0.0648483	0.21748635	2.7385124	21	9 22.0	19.0
70872 1999 VP_{157}	15.1	X	250.97613	227.57578	218.31607	8.25933	0.0863623	0.26532650	2.3985510	21	9 3.1	18.2
70873 1999 VJ_{158}	15.3	X	228.17751	9.81416	345.31203	1.33118	0.0763352	0.20522218	2.8465568	21	4 11.5	19.5
70874 1999 VR_{159}	14.7	X	338.42045	45.44398	26.82171	14.02938	0.0830411	0.22890665	2.6466536	21	12 25.2	18.1
70875 1999 VW_{159}	14.9	X	218.04894	89.18897	12.34357	4.61038	0.1013443	0.21667607	2.7453354	21	8 14.9	18.9
70876 1999 VE_{160}	15.6	X	198.37521	80.50522	19.75135	3.54006	0.2100861	0.25817039	2.4426717	21	7 18.3	19.6
70877 1999 VL_{160}	14.8	X	190.25895	42.22782	224.10585	9.06713	0.1775037	0.23718282	2.5847224	21	—	—
70878 1999 VF_{161}	15.9	X	15.19020	10.46635	335.33012	1.30329	0.0920506	0.22225590	2.6991925	21	10 26.9	19.1
70879 1999 VF_{162}	15.1	X	268.20317	74.88792	16.54082	5.51237	0.0201636	0.22131718	2.7068195	21	10 12.8	18.8
70880 1999 VL_{162}	15.5	X	132.55800	268.84430	3.08972	3.02935	0.0941358	0.22837303	2.6507749	21	12 15.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70881 1999 VO_{162}	14.9	X	114.25000	282.10040	268.96528	3.81066	0.0946360	0.21364364	2.7712523	21	8 14.2	18.9
70882 1999 VP_{162}	15.3	X	22.51634	295.23683	38.65136	13.71775	0.1480806	0.22330526	2.6907297	21	10 30.8	18.4
70883 1999 VX_{162}	16.0	X	153.10292	346.26638	351.63649	2.10719	0.1768051	0.24070905	2.5594173	21	1 5.7	19.9
70884 1999 VF_{163}	15.9	X	15.83009	337.49641	33.52549	6.74686	0.2376147	0.22721090	2.6598059	21	12 23.5	19.0
70885 1999 VS_{163}	15.8	X	93.50673	46.60063	310.73297	0.81419	0.1434193	0.23483752	2.6019028	21	—	—
70886 1999 VY_{163}	15.1	X	28.46323	333.63652	350.26387	1.38202	0.0912641	0.22213853	2.7001431	21	10 17.5	18.4
70887 1999 VY_{166}	15.3	X	310.32520	270.96689	42.47239	8.53548	0.1784929	0.21107561	2.7936845	21	5 13.3	18.8
70888 1999 VA_{167}	15.4	X	66.18073	88.41027	253.97729	4.19833	0.0982519	0.22823257	2.6518623	21	12 31.4	19.2
70889 1999 VX_{167}	14.9	X	165.31611	163.42470	44.34959	10.31501	0.0727090	0.22116277	2.7080792	21	10 31.9	19.0
70890 1999 VZ_{167}	15.0	X	273.67030	339.44506	23.58167	2.88457	0.2011995	0.25761258	2.4461965	21	5 25.4	18.5
70891 1999 VD_{168}	15.4	X	285.77516	323.41363	247.27050	14.10346	0.0441232	0.23698901	2.5861314	21	—	—
70892 1999 VY_{168}	15.2	X	295.29889	327.37233	53.33546	10.10589	0.1734708	0.21587577	2.7521163	21	7 26.8	18.7
70893 1999 VT_{169}	15.4	X	239.73661	75.61332	42.22226	6.41083	0.0340503	0.21898590	2.7259964	21	10 9.7	19.1
70894 1999 VY_{170}	15.0	X	303.80284	83.16271	280.87516	4.97520	0.0212326	0.21276833	2.7788476	21	8 3.9	18.8
70895 1999 VC_{172}	15.3	X	196.34856	48.67374	11.69357	2.43448	0.0507472	0.20604400	2.8389826	21	5 29.4	19.4
70896 1999 VH_{172}	15.1	X	198.92520	279.76518	50.61989	4.20558	0.1952599	0.24285649	2.5443074	21	2 9.3	19.3
70897 1999 VG_{174}	13.1	X	229.31752	356.48904	37.02491	13.70330	0.1966900	0.20526446	2.8461659	21	5 20.7	17.8
70898 1999 VR_{176}	14.9	X	334.82074	245.25051	213.14624	13.20374	0.1745419	0.23292866	2.6160985	21	—	—
70899 1999 VS_{176}	14.8	X	153.05847	206.21741	235.75740	7.02407	0.0916425	0.25442009	2.4666174	21	5 6.8	18.1
70900 1999 VF_{177}	14.9	X	249.30972	22.98229	205.57508	21.53827	0.0222359	0.23598054	2.5934941	21	—	—
70901 1999 VD_{178}	15.6	X	230.46385	244.64747	95.64280	5.38692	0.1331478	0.25160625	2.4849735	21	3 21.9	19.4
70902 1999 VH_{178}	15.5	X	247.40816	0.97726	68.26033	11.26652	0.1689472	0.26157270	2.4214440	21	7 31.6	19.1
70903 1999 VD_{179}	14.7	X	70.98899	334.92952	92.70199	13.95377	0.1454189	0.23880710	2.5729888	21	1 4.9	17.4
70904 1999 VB_{184}	15.9	X	305.75745	198.74841	187.03111	2.90542	0.1478909	0.21866251	2.7286835	21	8 20.8	19.1
70905 1999 VF_{185}	14.6	X	58.62129	326.27786	188.26239	4.11784	0.1197281	0.20008913	2.8950344	21	4 18.8	18.0
70906 1999 VL_{185}	15.7	X	40.13819	75.02000	84.01229	3.87085	0.1150906	0.24447487	2.5330664	21	3 18.7	18.3
70907 1999 VB_{186}	15.4	X	316.92994	264.36184	75.30983	5.22804	0.0816431	0.21453478	2.7635728	21	7 15.1	18.7
70908 1999 VD_{186}	14.9	X	171.10461	120.92044	78.29151	3.34662	0.0666993	0.22266513	2.6958842	21	10 28.4	18.8
70909 1999 VG_{186}	14.8	X	192.91351	158.69556	59.78624	14.93519	0.0738966	0.22851724	2.6496595	21	12 13.2	18.6
70910 1999 VJ_{186}	15.8	X	19.66484	37.05104	94.85635	3.87075	0.1149601	0.23953195	2.5677954	21	1 1.7	18.5
70911 1999 VT_{186}	15.4	X	329.83326	272.35879	154.24921	3.70955	0.0786893	0.22623978	2.6674118	21	12 4.4	18.5
70912 1999 VC_{187}	15.7	X	83.10326	277.91344	183.22273	3.48101	0.2110108	0.24282777	2.5445080	21	3 22.7	18.5
70913 1999 VP_{187}	15.5	X	255.45723	309.25144	128.13479	3.04205	0.0548194	0.21709354	2.7418148	21	9 2.7	19.3
70914 1999 VA_{194}	15.6	X	44.81709	53.26255	33.52284	8.66053	0.1093007	0.23711342	2.5852267	21	—	—
70915 1999 VN_{194}	15.5	X	56.68329	334.17534	128.15977	8.67799	0.1198860	0.23975224	2.5662223	21	1 25.5	18.3
70916 1999 VH_{195}	16.0	X	151.54570	294.01885	57.31592	5.98748	0.1155153	0.24211615	2.5494914	21	1 13.9	19.7
70917 1999 VN_{195}	14.9	X	332.47878	278.53938	47.96478	5.84704	0.0726442	0.21623721	2.7490487	21	7 23.4	18.3
70918 1999 VY_{195}	15.2	X	174.32287	183.16634	314.59696	5.65268	0.0663485	0.26364183	2.4087580	21	8 14.8	18.3
70919 1999 VA_{196}	15.9	X	303.85607	117.03494	228.88045	5.22370	0.1304085	0.26184946	2.4197375	21	6 24.6	18.7
70920 1999 VG_{196}	14.8	X	60.87130	294.25165	108.89467	14.02779	0.1420097	0.23495584	2.6010292	21	—	—
70921 1999 VY_{196}	15.1	X	257.43431	296.28986	124.90119	12.18535	0.1215606	0.21502957	2.7593318	21	8 4.4	18.8
70922 1999 VZ_{196}	15.5	X	65.35709	302.28458	152.36562	10.31479	0.1400696	0.23969727	2.5666146	21	1 31.0	18.2
70923 1999 VY_{197}	15.0	X	359.14702	243.06283	186.42696	13.56775	0.0868762	0.23076755	2.6324061	21	—	—
70924 1999 VC_{205}	16.0	X	322.50090	214.59184	203.05293	1.46190	0.0374002	0.22252860	2.6969868	21	11 10.8	19.5
70925 1999 VK_{205}	14.5	X	272.12730	334.26066	183.22424	12.45424	0.1260884	0.22752053	2.6573922	21	12 29.4	18.0
70926 1999 VJ_{208}	15.7	X	3.53980	244.30985	174.11214	2.96772	0.0526249	0.22851952	2.6496419	21	—	—
70927 1999 VX_{210}	15.3	X	57.49512	31.55749	294.25709	3.69698	0.1189297	0.22607471	2.6687101	21	12 2.8	18.9
70928 1999 VS_{211}	15.8	X	13.08785	51.74117	228.46456	3.44865	0.0287085	0.21389176	2.7691087	21	7 19.4	19.4
70929 1999 VN_{216}	15.7	X	189.65485	292.57991	10.56575	6.34239	0.2102490	0.24192721	2.5508185	21	—	—
70930 1999 VN_{218}	16.1	X	231.98944	71.65826	190.58768	9.64012	0.1595782	0.24535602	2.5269980	21	—	—
70931 1999 VW_{219}	15.3	X	53.94891	205.71118	200.52448	12.81919	0.1347985	0.23400459	2.6080733	21	—	—
70932 1999 VX_{223}	14.8	X	171.06396	295.07388	196.34099	8.79209	0.0986321	0.21238372	2.7822014	21	7 29.7	19.2
70933 1999 VY_{223}	15.8	X	182.38200	140.58522	188.74860	8.80239	0.2121012	0.24356117	2.5393974	21	1 22.5	20.2
70934 1999 VN_{225}	16.1	X	75.51546	186.25063	186.55030	12.32428	0.1802316	0.23324070	2.6137647	21	—	—
70935 1999 WG	14.7	X	101.83568	97.77500	274.42617	10.05459	0.1813487	0.23495632	2.6010256	21	—	—
70936 Kámen	14.6	X	319.88309	319.03635	54.00692	5.95383	0.0924503	0.21618329	2.7495058	21	9 6.6	17.9
70937 1999 WT_{2}	16.0	X	309.09114	39.87589	350.41964	1.43839	0.2269758	0.21827322	2.7319269	21	8 22.4	18.9
70938 1999 WZ_{3}	14.1	X	139.03797	252.28008	205.87301	1.42316	0.0533495	0.20273473	2.8697933	21	5 11.8	18.2
70939 1999 WS_{5}	15.9	X	39.40694	25.32310	36.34554	9.98358	0.1019473	0.23613342	2.5923746	21	—	—
70940 1999 WT_{5}	15.0	X	132.24004	91.24550	39.28977	6.72098	0.0916920	0.25594116	2.4568348	21	6 16.7	18.4
70941 1999 WJ_{6}	15.5	X	29.81413	282.66362	136.92652	2.61643	0.1093385	0.23199629	2.6231030	21	—	—
70942 Vandanashiva	15.3	X	67.05103	255.31311	159.84591	4.22276	0.2389121	0.23593038	2.5938616	21	—	—
70943 1999 WM_{9}	15.5	X	313.17841	180.24080	206.61321	5.75088	0.0332753	0.21816464	2.7328333	21	9 15.5	19.0
70944 1999 WX_{9}	14.7	X	3.24661	188.20484	271.01438	12.34174	0.1066761	0.22965521	2.6408994	21	—	—
70945 1999 WB_{10}	14.2	X	62.22671	253.70737	254.16190	16.59848	0.2349805	0.19602687	2.9348933	21	4 30.1	17.8
70946 1999 WD_{10}	14.6	X	7.23183	63.52116	77.57190	3.81014	0.1796144	0.23347207	2.6120376	21	—	—
70947 1999 WT_{11}	15.5	X	130.83991	337.89801	34.54780	15.33998	0.1580917	0.24276444	2.5449505	21	1 26.1	19.3
70948 1999 WW_{16}	15.6	X	177.46997	268.60821	31.80648	15.43893	0.2463118	0.24260284	2.5460805	21	—	—
70949 1999 WX_{17}	15.6	X	289.30441	325.06965	229.72074	5.03347	0.0774464	0.23665318	2.5885774	21	—	—
70950 1999 WU_{18}	16.2	X	123.96227	216.25598	60.08748	2.22231	0.1373126	0.22845070	2.6501740	21	12 13.7	20.2
70951 1999 WV_{22}	15.6	X	37.55848	40.89377	231.20754	4.77051	0.0676934	0.21455919	2.7633632	21	8 15.9	19.1
70952 1999 XE	15.7	X	129.69213	117.41874	192.42538	1.81630	0.1946861	0.23324477	2.6137343	21	—	—
70953 1999 XY_{1}	14.9	X	160.43472	296.55483	94.16301	18.37359	0.2282332	0.24613878	2.5216377	21	3 30.9	19.5
70954 1999 XK_{2}	14.3	X	205.20302	91.15595	116.61785	2.48898	0.1371838	0.17435781	3.1732804	21	11 30.5	19.3
70955 1999 XX_{2}	15.3	X	305.48359	60.53095	37.31472	12.63372	0.1387233	0.22601423	2.6691861	21	11 30.8	18.4
70956 1999 XW_{4}	15.7	X	83.50258	186.94219	165.97788	2.12373	0.2011726	0.23268881	2.6178960	21	—	—
70957 1999 XQ_{5}	14.4	X	320.15061	152.42033	269.39371	16.59461	0.0948526	0.22108803	2.7086895	21	11 7.4	17.9
70958 1999 XC_{6}	15.2	X	335.42019	254.97945	70.64735	2.75626	0.2076970	0.21562359	2.7542617	21	7 13.7	17.9
70959 1999 XC_{7}	15.9	X	353.99339	43.85164	33.56026	2.32754	0.1923068	0.22868290	2.6483797	21	—	—
70960 1999 XH_{7}	14.5	X	231.77446	157.09628	56.56776	14.38472	0.1117880	0.22956062	2.6416247	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
70961 1999 XY_{7}	14.7	X	264.85658	339.22869	39.35217	12.46669	0.1839315	0.26041158	2.4286365	21	6 5.9	18.2
70962 1999 XL_{9}	15.6	X	309.17446	129.23600	250.35868	6.98894	0.1850945	0.21695244	2.7430034	21	8 9.9	18.8
70963 1999 XT_{10}	15.1	X	12.24330	228.38090	264.06355	10.64228	0.1211439	0.23823515	2.5771053	21	—	—
70964 1999 XK_{12}	14.5	X	140.00115	262.73438	112.76174	13.43265	0.1966425	0.23869800	2.5737727	21	2 11.5	18.4
70965 1999 XC_{13}	15.3	X	57.12646	265.17865	188.86443	8.71706	0.0776678	0.23985348	2.5655001	21	1 10.9	18.4
70966 1999 XD_{18}	14.6	X	55.21667	18.32235	32.43986	15.88834	0.0912205	0.23780643	2.5802017	21	—	—
70967 1999 XG_{18}	15.3	X	316.18499	15.25284	45.39990	5.46057	0.1879677	0.27051949	2.3677564	21	11 9.1	17.0
70968 1999 XA_{20}	14.0	X	64.79623	184.99325	46.92170	13.90734	0.1098962	0.21596580	2.7513514	21	8 16.2	17.9
70969 1999 XG_{20}	14.5	X	316.88813	99.49217	52.67477	13.10708	0.1144983	0.23490047	2.6014379	21	—	—
70970 1999 XH_{20}	13.9	X	251.36124	87.24951	57.52145	9.18050	0.0533866	0.22663715	2.6642930	21	11 24.6	17.3
70971 1999 XL_{20}	15.0	X	239.37480	25.16152	93.40261	3.32342	0.1369333	0.26566553	2.3965100	21	9 30.9	18.2
70972 1999 XM_{20}	14.9	X	94.61864	173.25818	64.51921	7.34995	0.0634891	0.26457488	2.4030915	21	9 27.1	18.1
70973 1999 XY_{20}	14.5	X	342.17951	347.83954	48.66337	7.80235	0.1294724	0.27135320	2.3629040	21	11 25.8	16.6
70974 1999 XE_{23}	15.4	X	59.49112	346.46106	34.45863	4.44485	0.2557037	0.23384336	2.6092720	21	—	—
70975 1999 XJ_{23}	15.1	X	153.66849	156.30284	233.17289	11.79851	0.1421984	0.24668750	2.5178969	21	3 1.0	19.1
70976 1999 XS_{23}	14.9	X	272.16752	13.04821	82.61358	4.33953	0.0538287	0.22213062	2.7002072	21	10 21.1	18.5
70977 1999 XU_{23}	14.8	X	92.53433	178.51420	229.04114	9.44014	0.1161924	0.23994444	2.5648517	21	1 7.4	17.9
70978 1999 XP_{24}	15.2	X	0.38846	33.73009	76.81576	5.28128	0.1923916	0.23334185	2.6130094	21	—	—
70979 1999 XU_{24}	14.7	X	99.55971	347.72694	67.30705	10.26613	0.0227710	0.24082938	2.5585647	21	1 17.6	18.1
70980 1999 XA_{25}	13.7	X	136.05630	52.14087	60.81032	10.25629	0.0787987	0.25179575	2.4837266	21	5 27.2	16.9
70981 1999 XE_{25}	14.5	X	196.26948	348.08384	159.84800	2.71005	0.0121495	0.21872117	2.7281956	21	9 24.9	18.1
70982 1999 XJ_{25}	14.4	X	58.55386	352.60981	62.52789	16.03925	0.1325209	0.23546978	2.5972431	21	—	—
70983 1999 XB_{27}	14.9	X	289.22142	239.82017	69.08204	7.28047	0.0426660	0.20666830	2.8332625	21	5 1.8	18.8
70984 1999 XW_{27}	15.7	X	77.69078	335.86557	97.70478	6.76724	0.2900773	0.23909138	2.5709489	21	2 19.5	18.2
70985 1999 XA_{28}	15.2	X	4.53953	218.10127	253.10609	4.72503	0.1579275	0.23468112	2.6030586	21	—	—
70986 1999 XR_{28}	15.1	X	299.89621	16.86220	102.85160	4.49694	0.0545428	0.22722588	2.6596889	21	12 29.5	18.4
70987 1999 XA_{29}	15.3	X	295.63378	233.21787	105.74827	4.73525	0.0683072	0.21034037	2.8001909	21	6 13.9	19.1
70988 1999 XU_{29}	14.5	X	157.55358	58.62623	97.00256	14.27026	0.0779592	0.21167979	2.7883661	21	8 21.1	18.8
70989 1999 XT_{32}	15.0	X	150.33579	209.54070	294.19543	6.76543	0.2566996	0.20345211	2.8630433	21	7 31.5	20.0
70990 1999 XA_{33}	14.3	X	10.56867	235.35700	293.14128	10.81097	0.2081333	0.18829957	3.0146473	21	2 9.1	17.5
70991 1999 XG_{33}	14.0	X	85.27409	198.04274	280.27997	5.75889	0.2510306	0.23965159	2.5669407	21	4 23.6	17.3
70992 1999 XU_{34}	14.0	X	85.32764	130.41121	298.96227	21.39710	0.0557922	0.23314452	2.6144835	21	1 20.9	17.2
70993 1999 XX_{34}	14.7	X	77.38831	129.96620	302.90004	4.09825	0.2370528	0.23455271	2.6040086	21	2 6.8	17.1
70994 1999 XL_{35}	14.6	X	82.96646	334.89380	87.08111	15.49160	0.1840744	0.23723622	2.5843344	21	1 25.9	17.5
70995 Mikemorton	14.9	X	92.35173	94.13139	175.20545	6.28224	0.0128027	0.21884596	2.7271583	21	10 21.3	18.6
70996 1999 XY_{35}	14.1	X	1.58933	296.59604	85.82180	18.29157	0.1095964	0.22092457	2.7100255	21	11 28.8	17.4
70997 1999 XE_{36}	14.9	X	152.75181	258.77427	219.15067	4.07047	0.2165387	0.20401700	2.8577560	21	6 30.8	19.8
70998 1999 XH_{36}	13.7	X	115.08976	356.58586	66.20361	10.23430	0.0577103	0.19336612	2.9617550	21	3 6.2	18.0
70999 1999 XW_{36}	14.6	X	272.98840	30.56165	6.37262	8.74547	0.1091196	0.26014851	2.4302735	21	7 29.1	17.7
71000 Hughdowns	14.2	X	347.31212	323.43003	93.32208	13.02768	0.1838011	0.22630381	2.6669087	21	12 27.5	16.8
71001 Natspasoc	13.8	X	41.07452	298.41514	126.07299	15.44918	0.0861382	0.23354579	2.6114879	21	—	—
71002 1999 XO_{37}	14.3	X	324.06883	229.63973	107.64640	17.77487	0.2198941	0.21518871	2.7579712	21	7 4.9	17.2
71003 1999 XD_{38}	15.1	X	203.36694	211.56576	178.85594	1.94868	0.0769858	0.20374092	2.8603370	21	4 29.7	19.3
71004 1999 XF_{38}	14.7	X	124.59391	113.79176	324.81002	4.15673	0.1551739	0.24492322	2.5299741	21	4 6.0	18.2
71005 1999 XN_{41}	15.4	X	290.93597	271.19033	133.23058	3.42085	0.0462632	0.21695274	2.7430010	21	9 8.6	18.9
71006 1999 XQ_{42}	16.1	X	48.44268	72.83778	6.74923	1.30281	0.1596286	0.23643258	2.5901873	21	—	—
71007 1999 XA_{43}	15.3	X	202.91484	2.48750	258.55080	3.88547	0.0814614	0.23465499	2.6032518	21	—	—
71008 1999 XS_{43}	14.7	X	324.85875	281.40485	258.46868	6.13665	0.1932586	0.23639306	2.5904759	21	—	—
71009 1999 XY_{44}	15.0	X	175.30950	220.53737	56.99283	14.52199	0.1809982	0.23447703	2.6045689	21	—	—
71010 1999 XD_{45}	14.7	X	339.36258	20.92043	62.25425	7.20486	0.0763066	0.27383773	2.3485899	21	—	—
71011 1999 XE_{45}	15.3	X	356.11934	259.23546	67.12151	6.08229	0.0693559	0.21686094	2.7437750	21	9 1.5	18.7
71012 1999 XH_{49}	15.4	X	6.80620	162.21657	285.66792	2.10593	0.0807914	0.23169015	2.6254132	21	—	—
71013 1999 XG_{50}	15.5	X	46.39479	136.06887	230.99408	1.67606	0.1265912	0.22834560	2.6509871	21	—	—
71014 1999 XW_{52}	15.2	X	313.34232	259.42036	62.58570	6.16105	0.2342646	0.21247705	2.7813867	21	5 21.4	18.5
71015 1999 XM_{55}	14.8	X	150.83744	76.56596	66.75439	4.00240	0.0315297	0.21069083	2.7970847	21	7 22.9	18.8
71016 1999 XR_{55}	14.8	X	247.59661	264.13719	255.57289	10.41733	0.1436953	0.22378590	2.6868757	21	11 24.9	18.3
71017 1999 XW_{55}	15.6	X	284.34694	49.45028	334.93380	0.45109	0.0856541	0.21379558	2.7699392	21	7 27.0	19.1
71018 1999 XC_{57}	14.6	X	21.63827	23.69240	120.76975	2.42119	0.1678225	0.19297267	2.9657794	21	2 2.5	17.8
71019 1999 XK_{57}	15.3	X	46.17813	168.80885	210.01818	2.31442	0.1083936	0.22902657	2.6457297	21	—	—
71020 1999 XW_{58}	15.2	X	131.89260	73.05062	253.36097	6.46133	0.1338297	0.23388794	2.6089404	21	—	—
71021 1999 XY_{58}	15.1	X	191.28882	285.35481	252.49037	13.28862	0.0416973	0.22012256	2.7166040	21	10 21.1	19.2
71022 1999 XD_{59}	14.7	X	346.23057	59.95876	70.58086	16.07173	0.0926122	0.23304282	2.6152441	21	—	—
71023 1999 XT_{60}	15.0	X	224.28300	269.64112	237.98237	8.75925	0.2096691	0.21828626	2.7318181	21	10 3.6	19.3
71024 1999 XU_{60}	15.3	X	355.15264	107.35404	224.86126	3.67463	0.1090759	0.21664488	2.7455989	21	9 3.9	18.3
71025 1999 XZ_{60}	15.1	X	68.24413	113.84019	239.35294	10.22639	0.2015596	0.22986332	2.6393051	21	—	—
71026 1999 XD_{62}	15.1	X	148.98957	266.99891	70.99033	12.10470	0.1198701	0.23794271	2.5792164	21	—	—
71027 1999 XS_{62}	15.5	X	302.03885	153.89420	224.91229	3.74230	0.1114936	0.21572186	2.7534252	21	8 9.2	18.9
71028 1999 XJ_{66}	15.3	X	355.59986	359.32281	73.99514	8.20744	0.1045942	0.22790440	2.6544074	21	—	—
71029 1999 XS_{66}	15.2	X	337.87886	151.97738	253.07724	3.16886	0.0743979	0.22239710	2.6980499	21	11 16.3	18.4
71030 1999 XM_{67}	14.7	X	27.35078	98.17381	248.54592	11.38687	0.2081979	0.22377988	2.6869238	21	12 3.5	17.8
71031 1999 XE_{68}	14.8	X	159.10134	301.12546	136.24274	2.89471	0.0420581	0.20339130	2.8636140	21	5 8.8	18.8
71032 1999 XE_{70}	15.2	X	71.11375	73.21200	238.48094	2.92404	0.0734160	0.22254270	2.6968729	21	11 25.1	18.8
71033 1999 XU_{70}	14.7	X	221.77602	201.22717	195.31062	1.65535	0.0783758	0.20668562	2.8331042	21	5 27.3	18.7
71034 1999 XK_{71}	15.1	X	79.68455	256.14258	177.37510	1.66786	0.1198375	0.23820402	2.5773298	21	1 24.7	18.1
71035 1999 XR_{71}	15.0	X	328.00691	125.70663	251.64921	8.20508	0.1537690	0.21841081	2.7307794	21	9 14.5	18.0
71036 1999 XR_{72}	14.8	X	228.77333	213.57740	87.89499	8.12978	0.1061425	0.24113951	2.5563705	21	2 1.3	18.7
71037 1999 XF_{73}	14.8	X	270.37675	184.00689	206.15995	2.71206	0.1018156	0.21188771	2.7865417	21	7 12.5	18.7
71038 1999 XL_{73}	14.9	X	302.06135	156.40430	242.89976	4.29375	0.0610760	0.21626261	2.7488334	21	9 12.5	18.6
71039 1999 XZ_{73}	14.7	X	260.70198	346.98451	84.31545	3.38939	0.1920045	0.21462489	2.7627992	21	8 12.5	18.7
71040 1999 XG_{74}	15.0	X	339.78681	244.67322	238.04720	3.20900	0.2449411	0.22927278	2.6438352	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71041 1999 XQ_{74}	14.5	X	232.22224	195.56386	91.94341	12.12609	0.0781654	0.19300325	2.9654661	21	1 27.3	19.0
71042 1999 XN_{77}	14.8	X	127.12552	242.60751	94.13933	14.07238	0.2680134	0.23450194	2.6043844	21	—	—
71043 1999 XB_{78}	14.9	X	25.43293	160.83512	256.65922	4.30629	0.2415709	0.23061461	2.6335698	21	—	—
71044 1999 XT_{81}	14.8	X	153.43197	351.86957	105.97433	3.15808	0.0855668	0.20396766	2.8582168	21	5 30.9	19.0
71045 1999 XY_{84}	15.1	X	286.17496	179.88078	221.69046	1.39300	0.2091038	0.21416060	2.7667908	21	8 1.8	18.7
71046 1999 XC_{85}	13.7	X	338.03825	2.93340	112.65851	12.75751	0.0387012	0.18206262	3.0831089	21	—	—
71047 1999 XC_{86}	14.8	X	161.05200	114.99350	272.71000	2.85697	0.2443044	0.24315258	2.5422414	21	3 17.9	19.0
71048 1999 XA_{87}	14.1	X	7.98799	113.67071	277.80170	12.02910	0.2088742	0.22308362	2.6925116	21	—	—
71049 1999 XG_{88}	14.4	X	230.21882	134.96685	237.19635	1.08097	0.0819287	0.20289194	2.8683107	21	5 5.2	18.8
71050 1999 XY_{88}	14.2	X	11.50947	351.68066	98.39805	10.96839	0.0193943	0.18357110	3.0661956	21	—	—
71051 1999 XN_{89}	15.0	X	153.53376	255.89745	147.41121	2.55608	0.1066968	0.19678974	2.9273034	21	3 26.5	19.5
71052 1999 XP_{91}	14.7	X	303.96699	301.53206	100.43553	2.96471	0.0906033	0.21437013	2.7649877	21	9 19.3	18.1
71053 1999 XB_{93}	15.1	X	115.89301	280.43093	164.75688	2.38999	0.0916582	0.19621639	2.9330031	21	4 3.4	19.3
71054 1999 XU_{93}	14.8	X	311.33072	0.67632	102.04767	12.30619	0.1750821	0.22244755	2.6976419	21	12 18.4	17.5
71055 1999 XV_{93}	14.8	X	328.04790	295.18014	101.41161	10.44152	0.2081348	0.21809433	2.7334206	21	10 21.3	17.5
71056 1999 XY_{95}	14.8	X	290.61737	38.54050	23.75532	5.09311	0.1512817	0.21652732	2.7465926	21	9 17.9	18.0
71057 1999 XE_{96}	13.8	X	34.45446	147.98779	261.42468	8.25283	0.0592043	0.23062541	2.6334876	21	—	—
71058 1999 XL_{96}	14.9	X	333.31528	26.47843	66.62296	12.60211	0.1435649	0.22698006	2.6616089	21	—	—
71059 1999 XP_{96}	14.3	X	188.82419	69.60689	69.71644	9.98258	0.1036889	0.21299177	2.7769038	21	9 3.9	18.7
71060 1999 XL_{98}	14.5	X	51.91389	9.69232	70.73542	2.61294	0.0870417	0.18934070	3.0035860	21	1 1.2	18.2
71061 1999 XS_{98}	13.6	X	316.48206	278.36977	270.17492	9.96727	0.0582510	0.18963761	3.0004500	21	1 3.9	17.8
71062 1999 XO_{99}	14.6	X	118.32025	324.26555	76.25433	4.95501	0.1410314	0.23898143	2.5717373	21	2 10.8	18.0
71063 1999 XH_{101}	13.5	X	207.09646	181.07202	86.41509	10.94747	0.0560486	0.18420994	3.0591023	21	—	—
71064 1999 XX_{103}	14.8	X	291.07636	50.93853	40.66330	12.18842	0.1222329	0.22304653	2.6928101	21	11 1.5	18.0
71065 1999 XY_{105}	15.5	X	85.94370	272.97368	143.60637	4.89594	0.2856760	0.23700821	2.5859917	21	2 7.3	18.0
71066 1999 XL_{106}	14.5	X	92.84065	179.00437	238.66558	14.03388	0.0944719	0.24154425	2.5535140	21	1 15.7	17.9
71067 1999 XX_{108}	15.3	X	26.32523	167.90223	221.65012	10.41521	0.0354929	0.22871263	2.6481502	21	12 31.4	19.0
71068 1999 XY_{109}	14.8	X	207.81402	215.03863	129.18137	3.25097	0.0969969	0.24662394	2.5183295	21	3 3.4	18.5
71069 1999 XB_{110}	15.3	X	103.24952	275.09477	118.26119	3.65277	0.1536277	0.23899882	2.5716126	21	1 12.1	18.3
71070 1999 XA_{112}	14.9	X	255.08000	194.06840	330.69317	1.03194	0.0871218	0.18053835	3.1004381	21	12 10.7	19.3
71071 1999 XH_{112}	14.7	X	354.14805	44.89718	62.83286	14.40323	0.1551502	0.23049386	2.6344895	21	—	—
71072 1999 XL_{112}	13.9	X	274.56986	80.63701	71.90738	12.74547	0.1079218	0.17818183	3.1277145	21	12 17.1	18.0
71073 1999 XE_{113}	14.9	X	335.58207	33.82519	15.26380	22.19404	0.0570061	0.22475287	2.6791635	21	11 10.4	18.6
71074 1999 XR_{115}	14.7	X	18.72055	137.51624	252.39154	14.23701	0.0871979	0.22876058	2.6477802	21	12 28.9	18.1
71075 1999 XB_{117}	14.7	X	301.34209	346.65729	47.63452	14.09505	0.1835607	0.21853795	2.7297202	21	8 29.2	18.1
71076 1999 XV_{117}	14.6	X	187.43322	16.47971	253.25048	13.28155	0.1216096	0.23445279	2.6047484	21	—	—
71077 1999 XZ_{117}	16.0	X	240.00873	330.08997	42.87740	6.50467	0.2393255	0.25523676	2.4613530	21	5 1.8	20.1
71078 1999 XF_{118}	15.2	X	299.64082	303.81817	251.30822	11.79730	0.1139962	0.23673234	2.5880003	21	—	—
71079 1999 XO_{118}	15.2	X	204.85396	47.53774	275.81558	3.89025	0.1797555	0.24451386	2.5327971	21	2 2.7	19.4
71080 1999 XD_{119}	15.2	X	102.04966	81.01611	273.83115	6.32478	0.2076504	0.23550739	2.5969666	21	—	—
71081 1999 XL_{119}	14.9	X	79.92002	279.99814	31.76079	8.85172	0.0952040	0.22626947	2.6671785	21	12 7.4	18.8
71082 1999 XV_{120}	14.9	X	96.88285	75.97995	263.49925	8.54603	0.1091742	0.23168454	2.6254556	21	—	—
71083 1999 XO_{121}	14.9	X	197.05543	255.64347	53.93745	12.65615	0.1963474	0.24119831	2.5559551	21	1 14.3	19.3
71084 1999 XQ_{121}	14.9	X	282.23709	9.39395	20.57954	3.53363	0.0879584	0.21441627	2.7645910	21	8 1.5	18.6
71085 1999 XX_{122}	15.4	X	336.19276	52.83192	334.37099	5.52301	0.0385922	0.22179662	2.7029174	21	10 18.3	18.9
71086 1999 XT_{125}	15.2	X	263.30760	98.80810	47.53792	12.60648	0.2397312	0.22341214	2.6898715	21	11 13.7	18.5
71087 1999 XV_{127}	14.0	X	212.43721	253.93406	281.56867	15.44004	0.1050173	0.17361308	3.1823486	21	10 28.7	19.1
71088 1999 XK_{129}	14.8	X	320.08820	72.22378	357.64614	7.23460	0.0146878	0.22342096	2.6898007	21	11 21.7	18.5
71089 1999 XH_{132}	14.2	X	114.89681	314.38117	65.25815	13.60552	0.1653444	0.23658319	2.5890879	21	1 14.0	17.7
71090 1999 XW_{132}	14.4	X	140.52075	59.09499	325.53357	8.82389	0.0695956	0.19335766	2.9618413	21	2 13.7	18.7
71091 1999 XN_{133}	14.1	X	126.83974	209.86315	50.02518	13.20651	0.1191441	0.21926671	2.7236685	21	11 23.8	18.3
71092 1999 XO_{133}	14.3	X	69.16672	170.26691	320.03899	12.97635	0.0824120	0.19570643	2.9380961	21	3 22.5	18.3
71093 1999 XW_{133}	13.8	X	341.51334	118.21605	16.47407	10.66346	0.0756439	0.18477880	3.0528206	21	—	—
71094 1999 XZ_{133}	15.0	X	62.97759	338.43237	48.96643	14.02787	0.0728482	0.22796252	2.6539562	21	—	—
71095 1999 XM_{134}	14.4	X	41.40078	70.09393	50.15468	13.73844	0.1440181	0.23527944	2.5986437	21	1 29.9	17.3
71096 1999 XR_{136}	13.5	X	83.60319	87.02601	315.97249	11.73372	0.2716863	0.23273043	2.6175839	21	1 15.8	16.2
71097 1999 XQ_{137}	14.4	X	336.90825	144.29142	283.26990	12.79931	0.1947041	0.22264053	2.6960829	21	12 21.9	17.0
71098 1999 XV_{137}	13.3	X	108.94304	161.62882	50.04131	17.91979	0.1427892	0.21475302	2.7617002	21	9 20.4	17.8
71099 1999 XQ_{138}	14.9	X	261.40807	274.48890	89.50468	3.09447	0.1017690	0.20513684	2.8473462	21	5 28.6	18.9
71100 1999 XV_{139}	14.2	X	105.31742	276.92098	108.16424	10.81714	0.0499112	0.18696334	3.0289940	21	1 2.0	18.4
71101 1999 XY_{140}	15.6	X	214.63752	221.61531	115.42981	2.37697	0.1137356	0.19494978	2.9456935	21	3 7.6	20.1
71102 1999 XH_{144}	14.0	X	342.84581	343.18345	61.90486	14.97567	0.1895011	0.22148373	2.7054624	21	11 30.1	16.6
71103 1999 XN_{144}	14.6	X	31.54609	123.62385	49.71675	5.69056	0.1863728	0.24198045	2.5504444	21	3 26.8	16.8
71104 1999 XA_{145}	15.8	X	200.87250	20.29406	230.55941	3.49161	0.2177733	0.23468155	2.6030555	21	—	—
71105 1999 XP_{151}	14.7	X	31.74224	61.70096	312.28772	2.59126	0.2285461	0.22444707	2.6815965	21	—	—
71106 1999 XS_{151}	14.8	X	67.97979	39.31079	314.25800	3.88647	0.1456956	0.17869462	3.1217280	21	—	—
71107 1999 XT_{151}	14.7	X	333.26400	169.27521	300.68810	7.84272	0.0631161	0.18010181	3.1054461	21	—	—
71108 1999 XL_{153}	14.1	X	272.65484	178.45387	61.98533	11.62958	0.0498064	0.19250278	2.9706036	21	1 17.3	18.5
71109 1999 XN_{153}	13.8	X	299.24619	152.36875	258.07749	8.20001	0.1740139	0.21581962	2.7525936	21	9 5.5	17.2
71110 1999 XZ_{154}	15.1	X	328.15142	276.08261	242.32288	12.05387	0.2052456	0.23160974	2.6260209	21	—	—
71111 1999 XO_{155}	14.4	X	123.60819	54.01463	234.09842	9.37776	0.0596328	0.17998466	3.1067936	21	12 16.1	19.0
71112 1999 XP_{155}	14.5	X	331.57023	189.96666	243.78059	14.35465	0.0715320	0.22445994	2.6814940	21	12 14.9	17.7
71113 1999 XV_{155}	15.1	X	87.11276	166.51362	108.78831	6.35353	0.0199649	0.21892515	2.7265007	21	10 24.9	18.9
71114 1999 XY_{155}	15.0	X	254.95533	217.47140	202.75267	4.31697	0.0596885	0.21267975	2.7796191	21	8 6.9	18.8
71115 1999 XW_{156}	14.0	X	305.54270	256.23806	245.70091	9.42141	0.0389239	0.18309708	3.0714853	21	—	—
71116 1999 XO_{157}	14.6	X	265.14627	286.99847	211.10400	4.57044	0.0989620	0.17710891	3.1403335	21	11 19.3	18.9
71117 1999 XW_{157}	14.5	X	110.48575	308.74922	97.34567	14.32120	0.1477934	0.23884794	2.5726954	21	2 10.1	17.9
71118 1999 XH_{159}	15.0	X	318.61120	11.56056	104.39440	12.79815	0.1218055	0.22616898	2.6679685	21	—	—
71119 1999 XJ_{161}	13.6	X	74.25363	29.97539	319.95612	12.57139	0.1889779	0.22642377	2.6659666	21	—	—
71120 1999 XJ_{162}	15.3	X	13.59584	69.95782	7.95937	10.92266	0.2485581	0.22937770	2.6430290	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71121 1999 XY_{163}	14.0	X	218.69456	214.82758	285.70213	3.37562	0.0739705	0.21999779	2.7176311	21	10 4.3	17.8
71122 1999 XC_{165}	14.5	X	238.06536	98.82641	350.71985	7.13334	0.2031500	0.20983542	2.8046813	21	8 10.6	18.9
71123 1999 XM_{168}	15.0	X	91.92222	122.44967	257.87574	13.95022	0.1376153	0.23578421	2.5949336	21	—	—
71124 1999 XR_{173}	14.3	X	21.36823	104.96820	297.97605	11.39374	0.1829327	0.22580123	2.6708644	21	—	—
71125 1999 XY_{173}	14.5	X	297.57510	114.07516	324.17986	8.45074	0.1518974	0.21842248	2.7306822	21	10 15.4	17.7
71126 1999 XU_{174}	14.4	X	293.36706	55.45739	86.08338	13.91246	0.1259397	0.22370888	2.6874924	21	—	—
71127 1999 XX_{175}	13.6	X	351.27967	298.11342	50.50545	9.74393	0.1834293	0.21429143	2.7656646	21	9 29.9	16.4
71128 1999 XO_{176}	13.6	X	241.60538	169.56993	5.21280	8.89215	0.0634095	0.17528372	3.1620956	21	12 7.5	18.2
71129 1999 XQ_{176}	14.1	X	94.36248	267.55398	78.74226	15.61432	0.0760997	0.22532557	2.6746219	21	—	—
71130 1999 XX_{176}	14.2	X	203.89156	124.01588	297.36158	34.13700	0.2473525	0.20520333	2.8467311	21	6 6.0	19.6
71131 1999 XY_{176}	14.9	X	1.35876	29.95055	76.70720	12.52442	0.2078152	0.22860027	2.6490178	21	—	—
71132 1999 XB_{177}	14.4	X	292.71824	5.03929	47.45206	10.50437	0.0907792	0.21303139	2.7765595	21	9 20.2	18.0
71133 1999 XQ_{177}	14.7	X	159.19548	91.13283	77.32923	8.20182	0.1505195	0.20909329	2.8113137	21	9 9.5	19.3
71134 1999 XR_{177}	14.4	X	45.23311	68.79829	86.66104	12.15732	0.0660830	0.19448617	2.9503729	21	4 1.1	18.4
71135 1999 XM_{178}	13.4	X	156.58432	279.57092	87.21854	12.64844	0.0285211	0.19034859	2.9929740	21	2 9.7	17.8
71136 1999 XV_{178}	14.2	X	186.24921	179.93226	79.87777	16.13234	0.0610766	0.17910925	3.1169084	21	—	—
71137 1999 XQ_{179}	14.3	X	203.95273	179.75388	28.73624	3.68400	0.1014142	0.17557031	3.1586535	21	12 2.5	19.0
71138 1999 XY_{179}	15.1	X	330.50938	26.20873	29.07943	5.65986	0.1576661	0.22057638	2.7128766	21	11 17.6	17.8
71139 1999 XB_{180}	13.9	X	351.99792	29.16814	76.98124	12.06103	0.0794797	0.18171832	3.0870020	21	—	—
71140 1999 XK_{180}	14.0	X	296.94073	338.86180	76.96212	15.22367	0.1101416	0.21317286	2.7753309	21	10 2.4	17.7
71141 1999 XX_{180}	14.8	X	86.87391	75.41981	26.65501	13.31133	0.1316517	0.24323765	2.5416487	21	3 21.7	17.9
71142 1999 XP_{181}	14.4	X	226.02947	165.06553	28.75929	12.90012	0.1214335	0.22609155	2.6685776	21	12 13.8	18.3
71143 1999 XR_{181}	13.7	X	140.50386	283.55929	33.90025	14.48549	0.2100049	0.23524179	2.5989209	21	—	—
71144 1999 XW_{182}	15.1	X	46.64551	24.88388	357.45584	8.77306	0.2434279	0.23031630	2.6358433	21	—	—
71145 1999 XA_{183}	13.5	X	171.74540	316.00167	45.78870	15.28618	0.1338279	0.24284457	2.5443906	21	2 26.1	17.7
71146 1999 XQ_{183}	14.6	X	182.92305	136.45348	16.97279	9.29874	0.0896571	0.21424157	2.7660937	21	9 13.7	18.8
71147 1999 XZ_{183}	14.6	X	308.92743	182.65698	294.58456	13.37605	0.0861288	0.22659346	2.6646354	21	—	—
71148 1999 XV_{184}	14.6	X	142.00159	348.57394	301.89047	13.03827	0.1430723	0.23064044	2.6333732	21	—	—
71149 1999 XE_{186}	13.7	X	98.79137	235.37997	45.44224	13.35186	0.1565305	0.22240311	2.6980013	21	11 24.4	17.9
71150 1999 XW_{186}	14.5	X	124.93345	241.82974	26.31277	9.21026	0.1061590	0.22382093	2.6865953	21	12 1.4	18.8
71151 1999 XZ_{188}	15.0	X	202.11434	129.76273	351.93593	8.69523	0.1027172	0.21237461	2.7822810	21	8 23.3	19.3
71152 1999 XM_{189}	15.1	X	243.80504	104.84275	341.26251	4.60305	0.1056901	0.21383111	2.7696324	21	8 22.7	19.1
71153 1999 XR_{190}	14.6	X	21.05916	278.96075	60.85619	12.53439	0.1949358	0.22086364	2.7105239	21	11 13.1	17.6
71154 1999 XJ_{192}	14.1	X	323.89634	309.19016	47.01868	8.00208	0.1001329	0.21364158	2.7712701	21	8 20.4	17.5
71155 1999 XP_{193}	14.0	X	102.91283	307.47013	69.15920	15.59409	0.1989689	0.23504955	2.6003378	21	—	—
71156 1999 XA_{194}	15.1	X	0.92128	359.09179	20.63512	5.87994	0.1090173	0.22129899	2.7069678	21	11 19.9	18.3
71157 1999 XD_{194}	14.2	X	61.84830	11.89399	52.48068	11.19925	0.0941280	0.18811209	3.0166499	21	—	—
71158 1999 XQ_{194}	13.7	X	233.72468	185.22745	64.31798	11.66503	0.0744128	0.18633132	3.0358395	21	—	—
71159 1999 XK_{195}	13.9	X	355.69639	63.42705	27.13160	10.05198	0.0808703	0.18257909	3.0772919	21	—	—
71160 1999 XS_{195}	14.1	X	296.82769	123.74384	64.44631	15.39040	0.0656428	0.23163808	2.6258066	21	—	—
71161 1999 XX_{195}	14.7	X	290.82692	65.88085	329.16882	8.63580	0.1730441	0.21438068	2.7648970	21	8 7.4	18.0
71162 1999 XX_{197}	13.6	X	10.18289	31.60217	51.08302	12.07686	0.0853717	0.18281656	3.0746264	21	—	—
71163 1999 XU_{199}	15.3	X	1.58899	130.06690	350.24035	7.52513	0.1231008	0.23239044	2.6201362	21	—	—
71164 1999 XF_{202}	15.0	X	151.42139	25.59420	41.45489	8.94421	0.0823995	0.19961263	2.8996397	21	4 20.4	19.2
71165 1999 XJ_{202}	14.1	X	352.63407	163.73810	310.14507	10.46629	0.0973646	0.18407418	3.0606063	21	—	—
71166 1999 XL_{203}	13.6	X	126.95858	187.05420	82.56638	18.93956	0.0990310	0.17435938	3.1732614	21	12 1.1	18.6
71167 1999 XZ_{203}	14.9	X	165.33588	111.23824	60.43409	15.01080	0.1178792	0.21094414	2.7948451	21	9 23.4	19.6
71168 1999 XQ_{204}	14.6	X	278.91446	133.92299	323.63447	13.01921	0.1530699	0.21825761	2.7320572	21	10 8.9	18.3
71169 1999 XV_{204}	14.9	X	24.12414	95.27118	351.61579	9.90837	0.1582613	0.23052013	2.6342894	21	—	—
71170 1999 XE_{206}	14.2	X	346.97656	76.64470	53.24918	11.24075	0.0760178	0.18364107	3.0654166	21	—	—
71171 1999 XG_{206}	13.9	X	357.19939	27.36170	62.01966	12.54961	0.1113619	0.18090150	3.0962875	21	—	—
71172 1999 XK_{206}	14.0	X	15.29359	37.91493	34.41988	11.16995	0.0416868	0.18052336	3.1006098	21	—	—
71173 1999 XA_{209}	15.1	X	314.64214	57.08960	343.49120	8.74764	0.2000244	0.21917324	2.7244428	21	9 20.3	17.9
71174 1999 XO_{210}	13.7	X	145.97933	6.18799	50.93423	15.61490	0.0720964	0.19783859	2.9169481	21	4 6.6	18.1
71175 1999 XS_{212}	15.2	X	67.62464	288.15020	169.11760	9.29559	0.1540715	0.24006398	2.5640001	21	2 8.7	17.9
71176 1999 XT_{212}	15.2	X	51.89813	242.30276	118.47470	6.84673	0.1555664	0.22866353	2.6485293	21	—	—
71177 1999 XA_{213}	15.2	X	247.94433	292.72743	155.54276	8.49286	0.1660454	0.21488681	2.7605538	21	8 21.7	19.3
71178 1999 XB_{213}	14.7	X	62.71365	295.17673	129.25587	8.11169	0.1868397	0.23551229	2.5969305	21	—	—
71179 1999 XM_{213}	15.2	X	49.53288	229.53288	196.83548	8.47483	0.0788363	0.23348090	2.6119718	21	—	—
71180 1999 XG_{214}	14.1	X	259.18282	141.90449	105.65752	11.56127	0.0628624	0.19110368	2.9850849	21	1 8.3	18.4
71181 1999 XA_{215}	14.4	X	81.06827	291.66002	116.53756	13.08074	0.1221873	0.18815447	3.0161969	21	1 7.4	18.1
71182 1999 XB_{215}	15.1	X	310.37722	234.44358	152.61652	4.84655	0.0860191	0.21403479	2.7678750	21	9 8.2	18.4
71183 1999 XO_{215}	15.3	X	208.80915	323.69636	165.36282	7.64591	0.1952686	0.21122122	2.7924003	21	8 30.7	19.9
71184 1999 XJ_{217}	15.8	X	296.59542	66.97987	335.73175	0.24623	0.3049952	0.21616464	2.7496639	21	8 3.5	19.2
71185 1999 XS_{220}	14.9	X	331.27949	316.04705	75.44465	15.83885	0.0280527	0.22203739	2.7009630	21	10 26.7	18.6
71186 1999 XX_{222}	14.3	X	307.05726	166.75748	333.10922	10.49816	0.0579344	0.18080100	3.0974348	21	—	—
71187 1999 XG_{224}	15.0	X	278.86747	99.36054	293.96763	1.21155	0.0844603	0.21035749	2.8000389	21	7 31.4	18.7
71188 1999 XH_{224}	14.5	X	310.94455	219.32586	104.53218	10.08196	0.2203964	0.20672987	2.8326999	21	5 25.2	18.1
71189 1999 XL_{229}	15.0	X	2.62879	14.93240	2.93512	11.76817	0.1862999	0.22539107	2.6741037	21	11 28.7	18.1
71190 1999 XO_{229}	14.4	X	165.93342	108.10848	358.79282	8.77526	0.1272075	0.20897244	2.8123975	21	6 26.6	18.9
71191 1999 XX_{229}	14.6	X	252.51439	127.75607	346.21582	7.96869	0.1476324	0.21998132	2.7177667	21	9 30.8	18.5
71192 1999 XC_{230}	14.3	X	198.85225	44.81364	30.85686	14.24411	0.1318026	0.20943289	2.8082739	21	6 17.6	19.0
71193 1999 XG_{231}	13.0	X	26.75465	7.55787	73.08439	19.66433	0.1501370	0.18135254	3.0911515	21	—	—
71194 1999 XH_{231}	13.5	X	351.09929	45.51746	65.97388	18.17859	0.0913421	0.17965176	3.1106303	21	—	—
71195 1999 XO_{231}	13.1	X	197.67163	169.60577	69.90098	13.08531	0.1536136	0.17633226	3.1495477	21	12 28.1	18.2
71196 1999 XP_{233}	14.7	X	173.21939	122.35663	62.85112	13.02529	0.1758270	0.26608230	2.3940069	21	10 18.0	18.6
71197 1999 XE_{234}	15.3	X	264.40664	251.11557	170.07592	7.21972	0.0919931	0.21562729	2.7542302	21	8 16.2	19.0
71198 1999 XX_{234}	15.8	X	153.80067	208.90720	157.83416	5.21523	0.2493286	0.24287812	2.5441563	21	2 16.2	19.8
71199 1999 XM_{236}	14.2	X	169.26055	312.77277	297.53953	11.67072	0.1332989	0.22947649	2.6422703	21	12 25.4	18.3
71200 1999 XT_{236}	14.7	X	48.14562	131.59905	283.44289	2.57422	0.1119090	0.23313585	2.6145484	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71201 1999 XL_{239}	14.8	X	59.40377	33.75118	279.02706	13.80578	0.1512783	0.22455061	2.6807721	21	11 21.9	18.8
71202 1999 XJ_{241}	14.8	X	22.59720	36.94505	15.81551	16.20598	0.1790957	0.22584742	2.6705002	21	—	—
71203 1999 XK_{242}	14.9	X	354.06330	46.58885	16.62251	10.47844	0.0837731	0.22382479	2.6865644	21	—	—
71204 1999 XQ_{242}	14.1	X	305.64598	123.29387	36.65938	14.19523	0.2072254	0.22660583	2.6645385	21	—	—
71205 1999 XD_{244}	15.8	X	315.60771	146.73628	202.05965	7.98028	0.3342649	0.21711570	2.7416282	21	6 14.4	19.0
71206 1999 XK_{244}	15.0	X	327.09476	257.81704	170.16225	15.19296	0.0933764	0.22373310	2.6872984	21	12 3.1	18.5
71207 1999 XB_{245}	14.8	X	350.55462	289.37145	122.70710	14.94621	0.1132080	0.22358114	2.6885159	21	12 20.3	18.1
71208 1999 XO_{248}	14.8	X	122.06520	95.47224	219.29212	12.59988	0.1696468	0.23069901	2.6329275	21	—	—
71209 1999 XX_{248}	15.0	X	14.26308	271.02074	105.12840	15.76059	0.1265150	0.22397431	2.6853686	21	12 12.1	18.3
71210 1999 XE_{256}	15.1	X	277.09007	208.43962	197.26982	5.64784	0.0564926	0.21381738	2.7697509	21	8 17.3	18.8
71211 1999 XO_{257}	14.9	X	45.00363	12.72858	69.54593	10.15531	0.0965622	0.23407287	2.6075661	21	—	—
71212 1999 XX_{257}	14.4	X	298.15087	69.83214	58.39400	12.90635	0.1515745	0.22269644	2.6956316	21	12 29.5	17.4
71213 1999 XA_{259}	14.9	X	179.66437	96.75625	211.93822	4.53987	0.1433233	0.23815741	2.5776660	21	—	—
71214 1999 XG_{261}	14.1	X	225.57439	155.81531	344.56548	18.94927	0.1190462	0.17012766	3.2256663	21	9 28.1	19.1
71215 1999 XY_{261}	14.1	X	168.53772	90.40250	233.99239	27.27303	0.1453070	0.23522989	2.5990086	21	—	—
71216 1999 YP_{1}	15.5	X	359.90251	283.97679	151.44838	13.24739	0.2433544	0.22956963	2.6415556	21	—	—
71217 1999 YQ_{1}	15.6	X	144.77262	205.43610	195.45435	16.94123	0.1936783	0.24450615	2.5328503	21	3 14.7	19.6
71218 1999 YF_{5}	14.0	X	231.21498	89.53798	93.49945	16.93183	0.0694108	0.17599469	3.1535738	21	12 7.6	18.6
71219 1999 YK_{6}	14.3	X	247.76322	218.97907	25.11198	15.29834	0.0584587	0.23514685	2.5996204	21	—	—
71220 1999 YY_{8}	15.7	X	334.52339	283.30145	342.48947	3.34601	0.1334849	0.24566653	2.5248682	21	4 18.3	18.4
71221 1999 YL_{9}	15.1	X	243.49241	150.43007	305.21096	7.11298	0.1865237	0.21146100	2.7902891	21	8 22.3	19.4
71222 1999 YQ_{9}	14.1	X	17.34171	108.66015	338.59122	10.57860	0.1375842	0.18276922	3.0751573	21	—	—
71223 1999 YF_{10}	16.0	X	283.33102	21.26151	105.98989	4.24323	0.0956729	0.22550293	2.6732193	21	12 10.9	19.3
71224 1999 YW_{12}	15.2	X	75.63220	41.63884	260.42163	11.41052	0.1557875	0.22268005	2.6957639	21	11 28.1	19.2
71225 1999 YU_{13}	13.6	X	323.66957	47.91949	100.73188	3.90814	0.1252973	0.18173144	3.0868535	21	—	—
71226 1999 YG_{14}	15.2	X	357.61173	38.75329	132.98560	0.44378	0.1214220	0.18769843	3.0210805	21	2 1.2	18.9
71227 1999 YO_{15}	15.4	X	348.99755	248.02799	190.48227	2.74018	0.0642889	0.22842627	2.6503630	21	—	—
71228 1999 YP_{15}	15.2	X	92.41948	26.26718	134.07094	2.76530	0.0473096	0.20581002	2.8411339	21	6 2.5	19.1
71229 1999 YD_{17}	14.3	X	90.76366	171.62401	136.78378	5.43040	0.1671460	0.17235152	3.1978590	21	12 14.7	19.3
71230 1999 YR_{17}	13.2	X	10.11065	33.03195	33.85795	17.63244	0.2023388	0.17800856	3.1297438	21	—	—
71231 1999 YY_{22}	15.4	X	290.50712	122.75670	291.90791	8.05485	0.1464413	0.21472663	2.7619265	21	9 2.2	19.0
71232 1999 YH_{26}	14.2	X	58.16192	345.34261	38.61842	13.75674	0.1774212	0.22716258	2.6601830	21	—	—
71233 2000 AC	14.9	X	61.22867	274.97018	121.87355	6.72372	0.3104991	0.23110176	2.6298676	21	—	—
71234 2000 AE_{2}	14.2	X	48.48206	167.65584	28.13242	6.12252	0.1047324	0.24356059	2.5394015	21	5 22.0	17.1
71235 2000 AD_{3}	14.2	X	29.44562	93.40363	95.88143	8.14460	0.1230927	0.19756426	2.9196478	21	4 21.4	17.7
71236 2000 AC_{5}	14.4	X	238.34546	95.09497	90.41318	5.01657	0.0801958	0.17627438	3.1502372	21	12 15.7	18.8
71237 2000 AJ_{7}	14.5	X	10.42295	20.65576	338.43735	4.58783	0.0723485	0.22001626	2.7174790	21	11 2.5	17.8
71238 2000 AL_{7}	15.2	X	121.73442	41.77507	351.17667	5.00939	0.2522833	0.24007916	2.5638921	21	2 19.5	18.8
71239 2000 AM_{7}	13.9	X	24.75986	220.17443	59.85849	10.19648	0.1161550	0.21063852	2.7975478	21	8 19.5	17.4
71240 2000 AU_{7}	14.6	X	92.63859	333.65061	72.88175	14.84446	0.0842512	0.23572535	2.5953655	21	1 4.7	17.9
71241 2000 AG_{8}	15.3	X	80.15013	64.44116	331.18081	6.66570	0.1950583	0.23385188	2.6092086	21	—	—
71242 2000 AQ_{8}	16.0	X	328.23984	40.07766	27.96911	4.63689	0.2277874	0.22366455	2.6878474	21	12 3.1	18.1
71243 2000 AK_{9}	15.1	X	55.82666	320.90414	69.69036	7.16440	0.1970198	0.22987632	2.6392056	21	—	—
71244 2000 AM_{9}	14.6	X	108.43443	281.25795	79.76296	14.49150	0.1519248	0.23233465	2.6205557	21	—	—
71245 2000 AE_{10}	14.5	X	82.13659	268.73330	53.77898	15.71442	0.1147201	0.22738089	2.6584801	21	12 25.6	18.6
71246 2000 AB_{11}	15.3	X	338.82545	159.57751	291.35438	7.06771	0.2821289	0.22755606	2.6571156	21	—	—
71247 2000 AJ_{11}	15.2	X	242.75948	234.45450	295.60786	2.84072	0.1509167	0.22354560	2.6888008	21	11 30.8	19.0
71248 2000 AJ_{13}	15.0	X	308.82860	24.25469	1.93054	3.45896	0.0935378	0.21578705	2.7528706	21	9 4.1	18.1
71249 2000 AK_{14}	14.7	X	4.56347	301.27092	79.91937	13.38309	0.1706814	0.22324745	2.6911942	21	12 7.6	17.6
71250 2000 AS_{14}	15.2	X	175.74766	3.51731	3.04114	1.59690	0.1999598	0.24370485	2.5383993	21	3 3.8	19.4
71251 2000 AH_{15}	14.7	X	308.96406	78.63133	293.67405	4.20578	0.0826750	0.21366474	2.7710698	21	8 15.4	18.0
71252 2000 AR_{15}	14.5	X	353.63332	249.16451	287.41341	9.15607	0.0396275	0.19291754	2.9663444	21	2 5.7	18.5
71253 2000 AT_{15}	15.0	X	314.49383	336.50791	73.54233	3.86395	0.0745836	0.21880726	2.7274799	21	10 18.8	18.3
71254 2000 AV_{15}	14.5	X	33.40973	71.70725	276.58679	12.99432	0.1486675	0.22261863	2.6962597	21	12 4.4	18.0
71255 2000 AU_{16}	14.4	X	312.55133	345.98068	94.51776	18.35580	0.0702499	0.22171746	2.7035607	21	11 28.6	17.9
71256 2000 AV_{16}	14.0	X	212.81089	26.55372	274.66740	5.50641	0.0837046	0.19114766	2.9846270	21	1 21.9	18.6
71257 2000 AV_{17}	15.0	X	245.75852	28.65970	35.69865	1.88387	0.1943232	0.21173607	2.7878719	21	7 16.9	19.2
71258 2000 AO_{20}	15.2	X	269.50577	68.46110	42.63012	3.89723	0.1258004	0.21964754	2.7205194	21	10 25.1	18.5
71259 2000 AX_{22}	14.8	X	355.54819	144.57267	344.79433	1.22216	0.1104701	0.18612813	3.0380486	21	—	—
71260 2000 AB_{23}	14.9	X	347.78935	302.62730	79.51260	6.07765	0.1696213	0.22016891	2.7162228	21	11 7.9	17.6
71261 2000 AC_{23}	14.7	X	329.97024	305.13516	81.53831	8.27097	0.0800980	0.21712270	2.7415693	21	10 13.8	18.1
71262 2000 AR_{23}	14.8	X	246.90631	26.22928	67.61128	5.25899	0.0360315	0.21373989	2.7704203	21	9 17.9	18.6
71263 2000 AN_{25}	14.1	X	42.62613	158.78826	78.50247	10.04583	0.1299184	0.20428048	2.8552982	21	7 17.7	17.6
71264 2000 AT_{27}	14.5	X	320.95894	183.73505	318.31295	6.99196	0.1150062	0.18242465	3.0790285	21	—	—
71265 2000 AW_{27}	15.2	X	293.61425	351.19492	59.45564	3.36710	0.0996431	0.21460733	2.7629500	21	9 14.2	18.5
71266 2000 AC_{28}	15.0	X	258.22696	249.32447	97.71295	3.17720	0.0817989	0.20225387	2.8743401	21	5 6.4	19.0
71267 2000 AL_{29}	14.5	X	38.74998	74.27087	16.17114	1.69371	0.1387571	0.18689480	3.0297345	21	—	—
71268 2000 AF_{30}	14.4	X	163.07972	312.28492	84.69839	3.10159	0.0971260	0.19613889	2.9337757	21	3 28.9	18.8
71269 2000 AK_{31}	14.6	X	12.92420	333.79373	76.28332	2.56515	0.2123213	0.22545773	2.6735766	21	—	—
71270 2000 AZ_{31}	14.8	X	270.78531	99.20905	327.72865	8.32072	0.1337385	0.21295433	2.7772293	21	8 26.5	18.4
71271 2000 AB_{32}	13.7	X	253.31050	216.58772	312.25438	17.19763	0.1414647	0.17575508	3.1564394	21	12 3.9	18.4
71272 2000 AY_{33}	14.1	X	268.68229	232.73593	313.10182	11.27567	0.1082188	0.17904216	3.1176870	21	—	—
71273 2000 AG_{35}	14.0	X	2.51948	27.07720	91.98623	10.20870	0.0458133	0.18609094	3.0384532	21	—	—
71274 2000 AC_{37}	13.7	X	172.11443	345.71463	311.19840	8.91757	0.0667907	0.18378395	3.0638276	21	—	—
71275 2000 AM_{39}	14.6	X	330.23839	174.01880	326.76089	10.05779	0.0776016	0.18197181	3.0841345	21	—	—
71276 2000 AX_{39}	14.6	X	124.61347	338.50746	338.86603	4.78630	0.0722403	0.18079678	3.0974829	21	—	—
71277 2000 AH_{44}	15.8	X	136.75968	242.26586	98.15414	2.93081	0.2264402	0.23778494	2.5803571	21	—	—
71278 2000 AR_{45}	14.2	X	12.64890	207.63941	97.56550	16.50254	0.1370828	0.21276387	2.7788864	21	9 7.8	17.7
71279 2000 AX_{45}	14.8	X	245.01297	315.65924	99.65619	5.56929	0.0689531	0.21049348	2.7988328	21	7 19.2	18.7
71280 2000 AZ_{46}	14.0	X	337.19650	189.41595	325.17112	9.21075	0.0192003	0.18422747	3.0589083	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71281 2000 AD_{47}	14.8	X	257.87145	9.55239	109.78812	10.55512	0.0972395	0.21591537	2.7517798	21	10 28.5	18.7
71282 Holuby	13.9	X	45.30051	305.60592	128.54579	12.27760	0.1149630	0.18363895	3.0654402	21	—	—
71283 2000 AB_{50}	14.5	X	68.53387	163.04729	285.02071	9.05607	0.0685032	0.19005183	2.9960887	21	1 30.9	18.5
71284 2000 AE_{50}	14.7	X	316.78885	5.13603	120.18563	2.60840	0.1481172	0.18029931	3.1031779	21	—	—
71285 2000 AB_{51}	15.0	X	18.26052	55.93330	12.03410	3.13881	0.1074665	0.22774465	2.6556485	21	—	—
71286 2000 AX_{51}	15.1	X	228.59091	81.82482	2.12350	5.98867	0.0973287	0.26096993	2.4251712	21	8 6.3	18.4
71287 2000 AM_{52}	15.1	X	273.21071	1.57296	38.90627	10.45840	0.1760363	0.21621432	2.7492427	21	7 22.1	19.1
71288 2000 AD_{53}	14.8	X	142.82903	103.93893	260.28931	11.96799	0.1985430	0.24082309	2.5586093	21	1 25.9	18.8
71289 2000 AZ_{53}	14.2	X	97.62036	80.03654	303.33383	8.63908	0.0729065	0.18516697	3.0485527	21	—	—
71290 2000 AP_{54}	14.9	X	322.60896	110.43794	314.81182	4.01568	0.1498198	0.21980526	2.7192178	21	11 15.8	17.7
71291 2000 AS_{56}	14.8	X	155.41478	356.07103	110.49033	12.11312	0.1578193	0.20224469	2.8744271	21	6 17.6	19.4
71292 2000 AO_{57}	15.4	X	56.98336	307.96627	115.57906	4.81671	0.1799096	0.23153795	2.6265636	21	—	—
71293 2000 AX_{58}	14.8	X	359.76836	114.07770	325.01172	4.86812	0.1740544	0.22574317	2.6713224	21	—	—
71294 2000 AB_{59}	15.1	X	109.33370	90.62498	314.78462	12.01306	0.2019681	0.23638467	2.5905373	21	2 12.1	18.5
71295 2000 AG_{59}	14.1	X	39.00747	300.21603	114.52797	13.00642	0.0950122	0.18104968	3.0945978	21	—	—
71296 2000 AH_{60}	15.3	X	351.99235	100.73254	309.63393	3.83722	0.1588371	0.22107563	2.7087908	21	12 23.0	18.1
71297 2000 AF_{62}	14.0	X	49.72175	341.40083	122.93539	14.60245	0.1123040	0.23338154	2.6127130	21	1 17.5	16.7
71298 2000 AH_{62}	14.2	X	91.01340	248.64678	127.37361	4.24557	0.1093920	0.18197515	3.0840967	21	—	—
71299 2000 AY_{62}	13.7	X	17.38043	1.07370	97.16803	7.95161	0.1245945	0.18324691	3.0698108	21	—	—
71300 2000 AB_{65}	14.3	X	341.46707	165.03089	312.80093	12.37886	0.1144425	0.22587119	2.6703129	21	—	—
71301 2000 AY_{65}	14.4	X	32.31737	346.74691	107.23724	12.51734	0.1023554	0.18373039	3.0644230	21	—	—
71302 2000 AU_{66}	14.1	X	91.45559	39.63205	356.82102	9.34639	0.0974634	0.18401601	3.0612513	21	1 6.8	18.3
71303 2000 AZ_{67}	14.8	X	249.76587	286.32403	107.89660	3.72462	0.0678402	0.20433640	2.8547772	21	6 27.1	18.7
71304 2000 AE_{68}	14.1	X	239.72045	31.02811	113.38954	9.52932	0.1325459	0.21497944	2.7597607	21	10 31.8	18.2
71305 2000 AG_{68}	14.4	X	155.31435	243.56994	77.07595	16.23248	0.1300362	0.23712083	2.5851728	21	—	—
71306 2000 AS_{69}	14.2	X	214.32690	93.80431	98.85244	13.64825	0.1143224	0.22329447	2.6908164	21	12 3.2	18.2
71307 2000 AO_{70}	15.4	X	301.35635	260.68548	127.85216	5.69900	0.1250718	0.21577202	2.7529984	21	8 22.3	18.7
71308 2000 AU_{70}	15.0	X	356.83594	183.92049	193.83515	4.54416	0.0916064	0.22144483	2.7057792	21	11 11.4	18.2
71309 2000 AS_{71}	14.3	X	354.24410	359.44214	93.19222	14.99566	0.0831854	0.23002323	2.6380818	21	—	—
71310 2000 AJ_{74}	15.2	X	167.65438	165.77171	188.03128	4.68518	0.2231308	0.24143334	2.5542960	21	2 9.8	19.4
71311 2000 AO_{75}	15.1	X	109.42972	249.03845	140.12952	5.42557	0.3188439	0.23859141	2.5745393	21	2 9.4	18.5
71312 2000 AT_{75}	14.5	X	95.47577	300.71259	107.16737	14.18010	0.1831885	0.23737229	2.5833467	21	1 25.7	17.6
71313 2000 AS_{76}	14.6	X	316.47750	16.78580	102.34752	8.04192	0.0556499	0.18115411	3.0934083	21	—	—
71314 2000 AW_{76}	14.3	X	198.73187	296.70897	121.39486	3.06081	0.0466122	0.20456560	2.8526444	21	5 30.5	18.4
71315 2000 AM_{77}	14.8	X	115.17383	278.67880	126.70401	6.85516	0.2859907	0.24046371	2.5611579	21	3 5.3	18.5
71316 2000 AA_{78}	15.5	X	234.31031	308.91464	128.94335	5.26481	0.1671605	0.25707989	2.4495744	21	7 25.6	18.9
71317 2000 AY_{78}	14.3	X	288.17744	180.11585	232.49396	6.81003	0.1268846	0.21504613	2.7591902	21	8 30.3	17.9
71318 2000 AO_{81}	15.2	X	278.82729	235.39413	151.78277	3.41309	0.0800090	0.21136975	2.7910921	21	7 23.4	19.0
71319 2000 AQ_{82}	15.0	X	0.35237	219.42128	213.15246	0.55946	0.1239252	0.18070498	3.0985319	21	—	—
71320 2000 AV_{82}	14.1	X	129.67166	197.31410	117.75987	16.57944	0.1825326	0.18197135	3.0841397	21	—	—
71321 2000 AB_{83}	14.5	X	267.00840	322.03082	167.45270	5.05911	0.1329338	0.17513412	3.1638961	21	11 7.0	18.8
71322 2000 AP_{83}	14.6	X	166.97234	302.83140	112.01616	3.15002	0.0510832	0.19887763	2.9067795	21	4 20.8	18.8
71323 2000 AF_{84}	15.0	X	278.58960	189.90540	218.84110	3.67459	0.0663165	0.21189657	2.7864640	21	8 22.1	18.8
71324 2000 AJ_{84}	14.4	X	326.67653	322.85666	202.24980	4.02247	0.0411867	0.18595007	3.0399877	21	—	—
71325 2000 AN_{84}	14.9	X	19.14929	241.87985	118.18200	16.26102	0.2732607	0.22153763	2.7050235	21	12 20.1	18.2
71326 2000 AU_{84}	13.8	X	117.00297	47.84111	277.94153	7.91530	0.0857061	0.18012669	3.1051602	21	—	—
71327 2000 AA_{85}	14.4	X	309.79430	8.44607	132.40582	1.97126	0.1239596	0.18015821	3.1047980	21	—	—
71328 2000 AH_{85}	14.4	X	168.98987	38.30918	119.87117	8.82260	0.1539814	0.20860149	2.8157307	21	9 4.0	19.0
71329 2000 AH_{86}	14.0	X	284.40628	290.81165	238.03818	0.55500	0.1773368	0.17894786	3.1187821	21	—	—
71330 2000 AZ_{86}	13.9	X	197.49616	70.94593	127.35009	9.69386	0.1214631	0.17193689	3.2029981	21	11 15.8	19.0
71331 2000 AY_{89}	14.8	X	181.97761	216.54418	204.98343	4.13318	0.1096400	0.20221222	2.8747348	21	5 16.4	19.2
71332 2000 AQ_{90}	14.5	X	166.36952	251.29902	122.92665	11.19820	0.1197102	0.19315887	2.9638731	21	3 8.2	19.2
71333 2000 AW_{91}	13.6	X	219.60561	285.91096	296.30612	6.38038	0.1918227	0.17495941	3.1660019	21	12 25.5	18.5
71334 2000 AP_{94}	14.0	X	53.08510	168.34421	313.41701	9.75162	0.0457749	0.19203865	2.9753880	21	2 18.5	17.9
71335 2000 AK_{96}	13.9	X	6.59197	317.14169	134.35240	18.08898	0.2039343	0.18118150	3.0930966	21	—	—
71336 2000 AE_{99}	14.9	X	335.30114	271.28867	165.49579	3.76214	0.1725673	0.22797636	2.6538488	21	12 31.5	17.6
71337 2000 AG_{99}	15.0	X	307.58857	278.96709	105.97440	3.42195	0.1943907	0.26505151	2.4002098	21	8 22.0	17.2
71338 2000 AK_{99}	14.6	X	337.50550	30.97105	69.91145	13.90834	0.1262383	0.23066505	2.6331859	21	—	—
71339 2000 AR_{99}	14.5	X	293.82725	191.61622	160.95462	5.28330	0.0326939	0.25848903	2.4406638	21	7 4.5	17.6
71340 2000 AW_{99}	14.8	X	179.40214	4.04148	81.38890	8.08700	0.1164698	0.25426292	2.4676337	21	6 11.1	18.5
71341 2000 AD_{101}	14.6	X	254.07177	328.55064	120.62196	7.12304	0.0917413	0.26349143	2.4096745	21	9 17.6	17.6
71342 2000 AJ_{102}	14.9	X	31.55031	2.48070	93.67313	9.76162	0.0771641	0.23576917	2.5950439	21	—	—
71343 2000 AV_{102}	14.2	X	154.66155	70.98074	100.26014	8.64114	0.1553187	0.21308957	2.7760541	21	9 8.5	18.8
71344 2000 AF_{103}	15.4	X	104.89002	195.52365	154.95896	4.41419	0.1535169	0.23373845	2.6100527	21	—	—
71345 2000 AH_{104}	15.3	X	358.45342	171.85521	212.66577	7.17464	0.2438538	0.22413984	2.6840463	21	12 11.5	17.9
71346 2000 AV_{104}	14.4	X	329.60408	228.57298	97.44202	18.60249	0.1566352	0.21313075	2.7756965	21	7 7.6	17.3
71347 2000 AH_{105}	14.7	X	346.24711	217.50875	110.22781	17.21831	0.1858283	0.21463299	2.7627297	21	8 15.2	17.5
71348 2000 AL_{107}	14.2	X	23.09829	328.12529	115.74952	16.68659	0.0563219	0.18482461	3.0523162	21	—	—
71349 2000 AP_{107}	13.6	X	134.02140	305.57059	123.10878	14.17381	0.0765396	0.19731565	2.9220997	21	4 7.7	18.1
71350 2000 AF_{108}	15.0	X	162.37893	213.86108	181.12106	1.85083	0.1052651	0.19699148	2.9253045	21	3 24.6	19.5
71351 2000 AJ_{108}	15.1	X	11.96507	147.48772	230.28294	2.20096	0.1146014	0.22158638	2.7046267	21	12 6.8	18.3
71352 2000 AH_{109}	14.1	X	219.36466	281.35502	254.28592	4.10860	0.0748368	0.17525481	3.1624433	21	11 12.7	18.6
71353 2000 AT_{110}	14.9	X	38.43680	243.88991	125.33775	15.13240	0.1295200	0.22409478	2.6844061	21	—	—
71354 2000 AO_{111}	14.7	X	26.44617	235.89768	131.99119	14.71013	0.0876933	0.22154676	2.7049492	21	12 13.2	18.4
71355 2000 AE_{112}	14.6	X	3.47385	278.15308	127.55333	7.87487	0.1724823	0.22391424	2.6858488	21	—	—
71356 2000 AR_{114}	14.4	X	327.59043	200.00598	286.57855	9.44322	0.0314328	0.18102136	3.0949205	21	—	—
71357 2000 AJ_{122}	14.5	X	316.46479	189.91992	133.61569	14.46286	0.1299057	0.20621215	2.8374391	21	6 16.5	18.2
71358 2000 AZ_{123}	14.8	X	275.71086	194.36225	276.20330	8.07833	0.1085600	0.21756895	2.7378192	21	11 1.5	18.5
71359 2000 AF_{124}	14.1	X	149.37860	100.54682	285.87126	9.54297	0.1176903	0.19172703	2.9786113	21	2 26.5	18.7
71360 2000 AT_{126}	13.9	X	115.05935	147.67995	291.52538	8.99951	0.0753786	0.19287725	2.9667575	21	3 18.6	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71361 2000 AP_{129}	14.1	X	264.46167	91.77118	137.89250	10.79881	0.0557923	0.18324010	3.0698869	21	—	—
71362 2000 AB_{133}	14.4	X	108.75340	142.18787	322.03264	16.41452	0.1027291	0.19581400	2.9370199	21	4 10.8	18.9
71363 2000 AK_{134}	14.9	X	302.09972	234.32946	317.76286	5.52949	0.0558268	0.18647632	3.0342656	21	—	—
71364 2000 AW_{134}	14.4	X	350.48958	314.43136	75.32430	9.22084	0.0869620	0.21978984	2.7193450	21	11 17.4	17.6
71365 2000 AY_{134}	14.5	X	283.57899	218.14059	333.35581	6.44526	0.1291615	0.18291473	3.0735262	21	—	—
71366 2000 AU_{135}	14.6	X	258.49568	25.55891	306.45961	11.79832	0.0726349	0.19954572	2.9002878	21	4 11.7	19.1
71367 2000 AO_{137}	14.2	X	76.25746	96.57678	358.76767	11.38855	0.2369748	0.23445742	2.6047141	21	3 10.5	16.8
71368 2000 AX_{137}	13.9	X	329.40404	107.42419	66.59804	4.94745	0.1907755	0.18076030	3.0978997	21	—	—
71369 2000 AJ_{139}	14.1	X	331.28300	325.55195	83.74714	12.88530	0.1788008	0.22490144	2.6779834	21	11 16.3	16.7
71370 2000 AK_{139}	15.3	X	219.78544	332.73375	93.02747	9.78467	0.1970392	0.25772228	2.4455023	21	6 22.8	19.3
71371 2000 AR_{139}	14.5	X	115.43085	302.34050	89.48557	14.05079	0.1718965	0.24143237	2.5543028	21	1 31.4	17.9
71372 2000 AS_{139}	14.3	X	257.71408	176.25761	125.40003	6.73267	0.0375595	0.24793404	2.5094504	21	3 9.5	17.6
71373 2000 AQ_{140}	14.8	X	305.36120	102.83576	119.74187	1.50373	0.2388638	0.23445896	2.6047027	21	—	—
71374 2000 AJ_{141}	15.2	X	307.67070	261.99238	189.02800	6.14660	0.2068435	0.21990624	2.7183853	21	11 21.2	17.9
71375 2000 AT_{141}	13.8	X	336.98371	269.90647	168.06501	10.25815	0.0788177	0.17501396	3.1653441	21	12 17.5	18.0
71376 2000 AP_{143}	14.8	X	87.95951	118.54364	291.87112	18.85169	0.0486539	0.18457970	3.0550155	21	1 11.3	18.9
71377 2000 AG_{145}	14.0	X	280.51601	81.76066	124.68286	12.24037	0.0799099	0.18368400	3.0649389	21	—	—
71378 2000 AP_{145}	14.5	X	54.43495	212.17761	286.06129	11.94959	0.0477376	0.19094000	2.9867906	21	3 8.6	18.7
71379 2000 AA_{146}	14.8	X	290.42522	60.56835	347.71883	4.92575	0.1765206	0.26570088	2.3962974	21	8 28.4	17.2
71380 2000 AC_{148}	14.3	X	305.51353	236.78030	288.66413	7.75188	0.0936226	0.18201857	3.0836062	21	—	—
71381 2000 AD_{149}	14.3	X	248.21565	312.52368	177.48072	6.55699	0.0900344	0.26537127	2.3982813	21	11 4.1	17.2
71382 2000 AT_{149}	14.8	X	259.24550	230.45190	200.77732	7.60834	0.2087397	0.21321472	2.7749676	21	8 4.9	18.9
71383 2000 AH_{151}	14.7	X	324.35278	301.81286	118.74886	14.19018	0.1739561	0.22032404	2.7149476	21	11 18.9	17.7
71384 2000 AQ_{151}	15.0	X	284.36150	305.36937	86.27507	6.93661	0.1182657	0.26417864	2.4054938	21	8 4.6	17.8
71385 2000 AR_{151}	14.9	X	338.60817	281.38504	66.52511	7.28156	0.1167779	0.26641306	2.3920250	21	9 8.9	17.3
71386 2000 AE_{153}	14.3	X	205.56546	300.35375	273.80652	4.26763	0.1316806	0.17410102	3.1763998	21	12 8.2	19.2
71387 2000 AD_{154}	14.5	X	72.25693	250.63128	80.05323	13.88276	0.1961431	0.22483502	2.6785108	21	—	—
71388 2000 AT_{154}	15.1	X	332.94738	345.06317	34.21969	2.98861	0.0800491	0.21965610	2.7204487	21	10 5.1	18.1
71389 2000 AQ_{156}	15.1	X	340.14882	90.66329	332.79993	4.49748	0.0863299	0.22498570	2.6773148	21	12 15.5	18.2
71390 2000 AB_{161}	14.3	X	158.05474	285.10779	97.94189	11.12712	0.0769924	0.19220715	2.9736489	21	3 8.8	18.9
71391 2000 AK_{161}	14.5	X	33.14819	193.35039	316.95399	14.03831	0.1273702	0.19044555	2.9919580	21	2 27.5	18.0
71392 2000 AV_{162}	15.0	X	43.71232	1.36829	75.14553	13.39976	0.1407454	0.23669316	2.5882859	21	—	—
71393 2000 AA_{163}	14.9	X	282.45473	284.72045	109.59516	11.57976	0.0899874	0.25975187	2.4327469	21	8 10.1	17.8
71394 2000 AX_{163}	15.0	X	351.97803	216.37857	170.56855	2.11407	0.1758464	0.21938093	2.7227230	21	11 22.2	17.6
71395 2000 AA_{164}	14.3	X	126.39636	132.73238	252.97735	8.22913	0.0802364	0.18873179	3.0100428	21	1 29.3	18.7
71396 2000 AV_{166}	14.3	X	217.07815	146.59926	240.21846	11.65081	0.1120561	0.20183878	2.8782795	21	5 7.3	18.7
71397 2000 AJ_{167}	13.9	X	171.65251	342.89191	240.43094	10.86739	0.0599163	0.17220752	3.1996414	21	11 19.3	18.7
71398 2000 AV_{168}	14.8	X	15.72828	331.64926	104.54332	15.83797	0.0780697	0.23177881	2.6247437	21	—	—
71399 2000 AZ_{168}	15.3	X	83.93723	327.28764	158.69120	7.06404	0.2089543	0.24372650	2.5382489	21	4 29.9	18.4
71400 2000 AF_{169}	14.6	X	216.87653	355.76157	114.65612	14.46450	0.0860085	0.21398401	2.7683129	21	8 27.9	18.8
71401 2000 AL_{170}	15.1	X	261.73352	280.48626	152.63778	9.21002	0.1887756	0.21537488	2.7563816	21	8 14.9	18.9
71402 2000 AM_{170}	14.7	X	13.47738	143.78876	222.61205	14.31699	0.1466249	0.22311288	2.6922763	21	11 29.1	17.9
71403 2000 AO_{170}	14.2	X	6.74936	256.40470	116.56966	13.95995	0.2145136	0.22395543	2.6855196	21	12 8.8	17.2
71404 2000 AP_{172}	14.7	X	281.49413	297.04600	126.35049	10.61655	0.1805110	0.21651052	2.7467347	21	9 1.5	18.3
71405 2000 AG_{173}	14.7	X	275.82268	228.77606	221.72862	8.74123	0.1236532	0.21827857	2.7318823	21	10 4.6	18.2
71406 2000 AK_{173}	14.7	X	22.58205	293.32089	129.09813	12.16540	0.1804757	0.22966487	2.6408253	21	—	—
71407 2000 AP_{175}	14.5	X	99.78002	247.06222	123.65279	15.09304	0.1455562	0.23296883	2.6157978	21	—	—
71408 2000 AT_{175}	14.8	X	81.74840	254.97050	197.59232	9.55530	0.0708709	0.19345065	2.9608922	21	2 22.3	18.9
71409 2000 AT_{178}	15.1	X	136.88729	118.97383	251.08306	11.66496	0.2725591	0.23823894	2.5770780	21	2 3.8	19.3
71410 2000 AG_{179}	14.4	X	80.25271	191.15622	213.36239	7.63448	0.1813255	0.23363681	2.6108096	21	—	—
71411 2000 AM_{180}	14.6	X	61.30614	308.24129	151.95368	10.69189	0.0494675	0.19006328	2.9959684	21	2 4.4	18.7
71412 2000 AF_{181}	14.8	X	307.73692	247.90912	170.71542	9.04971	0.1737330	0.21761508	2.7374323	21	10 9.4	17.7
71413 2000 AQ_{185}	14.1	X	308.59543	288.39563	185.82285	12.93221	0.1514220	0.22865159	2.6486215	21	12 30.8	17.2
71414 2000 AW_{185}	14.1	X	294.24484	41.39526	103.45252	12.87965	0.1344524	0.23052095	2.6342831	21	—	—
71415 2000 AD_{187}	14.7	X	35.14981	343.58852	111.99653	15.71187	0.0891417	0.23652749	2.5894943	21	—	—
71416 2000 AY_{187}	15.0	X	296.99967	325.28796	126.19033	14.30105	0.1330588	0.22272626	2.6953909	21	11 15.0	18.4
71417 2000 AE_{188}	14.7	X	310.78427	289.22246	123.61882	13.43190	0.3297265	0.22076377	2.7113413	21	9 16.6	17.2
71418 2000 AU_{190}	14.9	X	82.57633	327.05143	140.85430	13.98782	0.2257109	0.24046975	2.5611150	21	4 8.6	18.1
71419 2000 AH_{191}	14.6	X	316.61079	230.66831	157.60830	13.71874	0.1855086	0.21639602	2.7477036	21	9 10.1	17.4
71420 2000 AP_{191}	14.6	X	350.54822	190.58201	235.68638	13.23572	0.1603026	0.22486832	2.6782464	21	—	—
71421 2000 AJ_{192}	14.9	X	5.75968	275.88965	150.31522	12.98486	0.1677902	0.22627459	2.6671383	21	—	—
71422 2000 AE_{195}	15.0	X	304.36459	208.64942	221.91711	8.41306	0.1519679	0.21728259	2.7402242	21	10 19.9	18.1
71423 2000 AT_{195}	15.4	X	295.32452	253.75374	164.64837	9.44568	0.2120819	0.21537524	2.7563786	21	9 8.7	18.5
71424 2000 AB_{197}	14.4	X	63.58267	149.61983	256.37029	10.79779	0.1520300	0.18381533	3.0634789	21	—	—
71425 2000 AC_{197}	13.7	X	53.40500	74.06743	263.75352	14.61311	0.0735824	0.17163537	3.2067482	21	11 26.4	18.2
71426 2000 AJ_{198}	13.9	X	342.24094	171.52720	255.38794	8.09431	0.0681109	0.17411518	3.1762277	21	12 10.3	18.1
71427 2000 AE_{199}	14.2	X	44.53239	323.08928	99.91541	15.38961	0.1658798	0.23612704	2.5924212	21	—	—
71428 2000 AZ_{199}	14.8	X	254.88561	254.83839	163.27498	13.08773	0.2015086	0.21574556	2.7532236	21	7 16.2	19.1
71429 2000 AZ_{200}	14.5	X	114.02044	223.39929	146.06569	20.80027	0.3004927	0.23713626	2.5850607	21	1 18.1	18.1
71430 2000 AN_{201}	14.0	X	325.25752	276.97076	183.11673	15.97356	0.2118902	0.17861181	3.1226928	21	12 25.7	17.6
71431 2000 AC_{202}	15.4	X	15.37671	327.01921	116.37086	13.80401	0.1390993	0.23316314	2.6143443	21	—	—
71432 2000 AO_{202}	14.5	X	8.67458	189.32298	220.64273	11.26611	0.1737425	0.22485546	2.6783485	21	—	—
71433 2000 AE_{203}	13.5	X	159.09122	230.91711	274.22253	12.77092	0.0657967	0.20232807	2.8736373	21	8 1.1	17.9
71434 2000 AJ_{205}	14.4	X	317.80587	68.13811	315.19548	7.87480	0.1733258	0.21258220	2.7804694	21	9 2.8	17.5
71435 2000 AN_{206}	15.0	X	170.13167	96.98748	277.34952	0.95158	0.0405924	0.19454608	2.9497671	21	3 3.2	19.3
71436 2000 AF_{208}	15.4	X	79.57836	211.90177	89.95499	5.31793	0.2366829	0.22608153	2.6686564	21	12 10.9	19.7
71437 2000 AE_{209}	14.7	X	233.91269	130.72782	25.64582	0.70269	0.1082826	0.17130826	3.2108290	21	11 1.8	19.5
71438 2000 AP_{213}	15.6	X	94.62407	267.88519	105.56269	5.25106	0.1695305	0.18517952	3.0484150	21	—	—
71439 2000 AF_{214}	14.4	X	217.70639	217.18387	110.05102	11.63886	0.0974936	0.19281417	2.9674045	21	3 2.2	19.1
71440 2000 AL_{225}	14.1	X	173.09776	248.51332	321.48970	4.58773	0.1060202	0.17088053	3.2161848	21	11 2.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71441 2000 AR_{226}	15.1	X	298.33632	275.86565	107.82466	5.27018	0.0795171	0.21167347	2.7884215	21	8 17.5	18.6
71442 2000 AA_{230}	14.6	X	313.81502	263.84648	99.38891	9.76049	0.1235739	0.21011017	2.8022357	21	8 8.1	17.9
71443 2000 AG_{230}	14.1	X	251.44566	173.55004	333.41958	13.60665	0.0850130	0.17286463	3.1915277	21	11 8.7	18.9
71444 2000 AH_{230}	14.1	X	296.62440	78.41705	68.01666	6.87230	0.1092420	0.17800528	3.1297822	21	—	—
71445 Marc	15.3	X	53.21715	326.74575	159.14518	6.27164	0.1574857	0.23896648	2.5718446	21	2 24.8	17.9
71446 2000 AP_{237}	13.4	X	209.55229	228.56795	154.07928	13.41820	0.1933705	0.19789175	2.9164257	21	4 27.4	18.5
71447 2000 AY_{239}	15.0	X	179.93221	185.25475	212.11063	1.32753	0.1041113	0.19676882	2.9275109	21	4 14.1	19.6
71448 2000 AM_{241}	15.3	X	358.40956	239.72754	153.26640	8.08364	0.2435564	0.22345985	2.6894886	21	12 23.2	18.0
71449 2000 AJ_{242}	13.9	X	259.59779	322.54802	179.94693	14.55446	0.1889324	0.17259167	3.1948918	21	11 6.5	18.5
71450 2000 AV_{242}	14.7	X	114.81440	243.40765	210.40218	9.07145	0.0573020	0.19329469	2.9624846	21	4 7.1	18.8
71451 2000 AD_{243}	14.0	X	58.45556	237.89588	265.96087	10.53653	0.1185151	0.23740820	2.5830863	21	3 22.3	17.2
71452 2000 AQ_{243}	14.0	X	358.73388	331.80732	128.59222	18.37208	0.1761996	0.17935703	3.1140370	21	—	—
71453 2000 AW_{244}	15.3	X	5.98210	198.75821	250.06720	7.00797	0.2137213	0.22710119	2.6606625	21	—	—
71454 2000 AC_{245}	14.2	X	53.03792	282.33411	182.98191	15.15076	0.0691028	0.23965279	2.5669321	21	1 18.3	17.5
71455 2000 AD_{245}	15.5	X	66.10135	340.10571	142.43744	14.44836	0.2249884	0.24147033	2.5540351	21	3 31.3	18.2
71456 2000 AQ_{247}	14.1	X	202.06919	172.11811	44.99240	9.68445	0.0467473	0.17482558	3.1676175	21	12 15.1	18.8
71457 2000 AV_{247}	14.2	X	9.93545	309.65604	50.76695	12.20421	0.1852892	0.21739426	2.7392857	21	11 18.2	17.2
71458 2000 BU	14.8	X	8.13050	335.53560	154.31516	6.63211	0.1401723	0.18612013	3.0381355	21	—	—
71459 2000 BJ_{2}	14.9	X	196.36293	159.47184	1.30794	26.90744	0.1688309	0.21459966	2.7630158	21	9 27.8	19.4
71460 2000 BA_{3}	14.4	X	256.45332	152.78185	115.87556	4.33311	0.1566170	0.18674773	3.0313249	21	1 23.7	19.3
71461 Chowmeeyee	14.3	X	75.58667	79.28905	332.56852	10.59353	0.0313726	0.18196174	3.0842482	21	—	—
71462 2000 BP_{4}	14.5	X	288.46382	142.76707	343.71162	12.75202	0.1173647	0.22329551	2.6908081	21	12 13.8	17.9
71463 2000 BQ_{4}	15.1	X	17.79346	17.38374	12.95480	10.32973	0.0956076	0.22412195	2.6841892	21	12 30.3	18.7
71464 2000 BB_{7}	13.8	X	280.22267	133.94175	32.31829	16.81891	0.0541346	0.17880204	3.1204776	21	—	—
71465 2000 BX_{7}	14.4	X	285.79338	198.52741	329.97046	9.45202	0.0152430	0.18150542	3.0894155	21	—	—
71466 2000 BB_{10}	15.1	X	67.02986	196.33452	135.64884	2.31584	0.1601638	0.17243693	3.1968029	21	12 17.3	19.8
71467 2000 BE_{13}	15.1	X	235.84347	212.46860	340.02466	2.65034	0.1230461	0.26580029	2.3956999	21	—	—
71468 2000 BY_{13}	14.7	X	118.75999	310.76694	101.86292	11.40730	0.1146795	0.19183617	2.9774814	21	3 5.1	19.1
71469 2000 BQ_{14}	13.5	X	340.99880	59.59683	77.78218	17.32934	0.2809782	0.18045109	3.1014376	21	—	—
71470 2000 BV_{14}	13.4	X	299.19374	77.93828	52.42864	10.87915	0.0423997	0.17522951	3.1627477	21	12 30.0	17.8
71471 2000 BN_{15}	14.2	X	239.86855	177.19904	55.45389	18.24758	0.1424447	0.18116760	3.0932548	21	—	—
71472 2000 BO_{15}	13.2	X	137.52148	309.65254	67.75138	15.75822	0.0794629	0.18912646	3.0058538	21	2 8.4	17.8
71473 2000 BG_{16}	14.5	X	285.73651	203.95948	287.23791	12.30040	0.1265070	0.22623803	2.6674255	21	12 16.6	17.6
71474 2000 BY_{16}	14.1	X	226.37635	92.18730	81.91737	6.89182	0.0855572	0.17417971	3.1754431	21	11 18.8	18.8
71475 2000 BF_{17}	15.0	X	289.70595	60.54491	337.91969	4.76008	0.0875399	0.21182059	2.7871302	21	8 22.9	18.6
71476 2000 BG_{17}	14.5	X	150.22791	237.37120	116.38293	11.13230	0.0253574	0.18740078	3.0242786	21	1 14.6	18.9
71477 2000 BD_{24}	14.2	X	159.33253	285.56098	56.53736	10.74528	0.0409803	0.18534741	3.0465737	21	1 14.7	18.8
71478 2000 BN_{24}	14.3	X	14.79651	84.37615	69.51998	11.76666	0.0430220	0.18820217	3.0156872	21	2 13.4	18.5
71479 2000 BL_{26}	14.6	X	229.01874	83.27087	89.73968	0.25334	0.1316421	0.17151912	3.2081970	21	11 13.6	19.3
71480 Roberthatt	14.5	X	135.25537	142.67070	356.90207	8.01193	0.1519915	0.20110766	2.8852512	21	7 9.8	19.1
71481 2000 BY_{29}	14.1	X	46.40751	341.34237	112.34517	9.43285	0.0525156	0.18648843	3.0341342	21	1 8.9	18.0
71482 Jennamarie	14.0	X	167.17223	107.98606	109.44225	13.63849	0.0312785	0.17299326	3.1899455	21	11 13.2	18.9
71483 Dickgottfried	14.6	X	174.13158	237.73565	126.33402	10.26540	0.2147333	0.19232493	2.9724348	21	3 7.7	19.7
71484 2000 BE_{34}	14.3	X	60.27631	277.90413	131.56458	10.44005	0.1046208	0.18167497	3.0874930	21	—	—
71485 Brettman	14.4	X	108.62172	270.86399	116.98645	10.20730	0.0809702	0.18477578	3.0528539	21	1 14.1	18.7
71486 2000 BE_{38}	14.9	X	152.14651	228.16439	121.79071	1.82243	0.0687413	0.18699294	3.0286743	21	1 17.2	19.2
71487 2000 BE_{46}	14.9	X	118.04313	220.76687	132.86855	0.73260	0.2203506	0.18216125	3.0819959	21	1 3.9	19.4
71488 2000 BR_{49}	14.5	X	31.68415	81.35776	324.17187	14.22279	0.1259121	0.22798312	2.6537963	21	—	—
71489 Dynamocamp	13.9	X	261.01369	25.28432	178.43516	0.78325	0.1295139	0.17609958	3.1523215	21	—	—
71490 2000 CY_{7}	14.3	X	262.05204	300.85978	5.49589	9.54937	0.0691103	0.19317590	2.9636989	21	3 22.6	18.6
71491 2000 CO_{10}	14.1	X	176.14096	197.20803	131.43268	11.10857	0.0900394	0.18716282	3.0268414	21	1 18.8	18.7
71492 2000 CQ_{12}	14.6	X	80.28802	242.85818	175.22314	7.35165	0.0615517	0.18634300	3.0357127	21	1 10.7	18.7
71493 2000 CF_{13}	14.3	X	206.37372	65.38645	293.89839	9.37338	0.1441136	0.19578196	2.9373403	21	3 19.9	19.2
71494 2000 CH_{14}	14.4	X	4.99170	81.46004	266.59395	7.49837	0.1698984	0.21437402	2.7649543	21	10 17.5	17.5
71495 2000 CL_{14}	14.2	X	13.46626	163.43828	274.10336	6.88657	0.0283699	0.17960043	3.1112229	21	—	—
71496 2000 CB_{18}	15.1	X	15.96141	246.91283	159.44809	4.81674	0.2294477	0.22453282	2.6809137	21	—	—
71497 2000 CL_{18}	13.9	X	89.91983	133.68798	186.46730	4.82808	0.1404046	0.17393654	3.1784021	21	12 24.6	18.8
71498 2000 CH_{20}	14.2	X	141.80319	249.25065	142.59770	10.65235	0.1116124	0.19097485	2.9864272	21	3 2.0	18.6
71499 2000 CV_{20}	15.3	X	151.42440	196.79269	227.89482	0.90621	0.0937637	0.19595477	2.9356132	21	4 17.6	19.6
71500 2000 CM_{23}	15.2	X	119.50741	248.29559	191.90048	4.78992	0.0947242	0.19330469	2.9623824	21	4 1.6	19.4
71501 2000 CQ_{23}	14.0	X	261.72800	203.06815	287.82686	5.73354	0.0870036	0.17162425	3.2068867	21	11 4.7	18.5
71502 2000 CT_{25}	14.3	X	255.62595	247.04902	277.20796	3.32716	0.1244655	0.17365921	3.1817850	21	12 4.1	18.6
71503 2000 CR_{26}	13.9	X	61.88838	181.96644	315.52276	11.16537	0.1400584	0.19173411	2.9785379	21	3 29.3	17.7
71504 2000 CT_{28}	14.5	X	102.43954	143.08510	312.75283	11.26769	0.0923815	0.19213206	2.9744237	21	3 25.5	18.9
71505 2000 CD_{30}	13.9	X	268.32598	47.60235	161.21478	5.49998	0.1109599	0.17887150	3.1196697	21	—	—
71506 2000 CS_{30}	14.6	X	299.63581	337.95749	149.60301	11.25641	0.0840241	0.17645403	3.1480987	21	12 24.6	18.8
71507 2000 CP_{34}	14.9	X	10.81926	29.90783	62.65036	1.75378	0.1092749	0.17814625	3.1281309	21	—	—
71508 2000 CL_{35}	14.1	X	215.19788	300.35724	156.22284	5.66672	0.0321073	0.16068163	3.3508776	21	8 6.8	18.9
71509 2000 CT_{37}	14.5	X	280.29484	57.15139	113.01860	2.41229	0.0321432	0.17881370	3.1203420	21	—	—
71510 2000 CW_{49}	15.1	X	86.68851	299.42870	198.30840	6.06191	0.0966453	0.24016702	2.5632668	21	4 30.6	18.2
71511 2000 CF_{51}	13.5	X	210.53851	290.60730	300.70482	7.58663	0.0958422	0.17346661	3.1841398	21	—	—
71512 2000 CL_{51}	14.6	X	248.11091	173.45436	300.13482	7.09856	0.1721892	0.21227101	2.7831861	21	9 19.2	18.8
71513 2000 CD_{55}	14.6	X	3.68846	242.80664	289.26774	8.41993	0.0240377	0.19026150	2.9938872	21	2 14.5	18.8
71514 2000 CG_{55}	14.1	X	285.06404	64.01019	26.04600	5.98985	0.0825382	0.16881390	3.2423800	21	10 17.9	18.4
71515 2000 CL_{55}	14.9	X	148.74356	270.25404	173.09464	10.20336	0.1153271	0.19868099	2.9086972	21	5 12.0	19.5
71516 2000 CT_{56}	14.6	X	30.16116	283.20568	130.35191	3.88087	0.0193063	0.17693489	3.1423922	21	—	—
71517 2000 CO_{59}	14.1	X	133.18889	118.69889	188.56622	8.20152	0.1202814	0.17785181	3.1315824	21	—	—
71518 2000 CP_{62}	14.4	X	58.25100	228.42942	245.33690	6.15704	0.1827338	0.18764432	3.0216611	21	3 1.0	18.0
71519 2000 CB_{63}	14.1	X	115.56604	63.11343	330.44956	8.98906	0.0443833	0.18287548	3.0739660	21	1 26.3	18.4
71520 2000 CE_{69}	14.3	X	122.70398	240.94169	136.55940	16.01184	0.0802571	0.18550733	3.0448227	21	1 18.0	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71521 2000 CT_{70}	13.8	X	329.42312	208.17899	322.20003	14.49042	0.0440174	0.18133920	3.0913031	21	1 4.6	18.2
71522 2000 CV_{72}	14.7	X	286.46108	310.48082	290.81044	8.91169	0.0594059	0.18919182	3.0051615	21	1 30.7	19.0
71523 2000 CO_{76}	14.3	X	36.48854	273.09300	145.42656	11.87226	0.0804475	0.17776712	3.1325770	21	—	—
71524 2000 CM_{78}	13.8	X	334.46459	259.97178	144.51768	1.86375	0.1559762	0.16876102	3.2430574	21	10 30.8	17.5
71525 2000 CL_{79}	15.6	X	63.68984	207.00944	192.87731	0.49393	0.1287167	0.18078067	3.0976670	21	—	—
71526 2000 CO_{81}	14.3	X	335.72450	26.10007	146.48819	0.77508	0.1693059	0.18359807	3.0658953	21	—	—
71527 2000 CD_{82}	14.5	X	245.62306	151.55707	54.86055	1.62606	0.1499392	0.17547246	3.1598278	21	—	—
71528 2000 CY_{84}	13.8	X	340.78834	173.35340	344.68154	11.14279	0.1880713	0.18257255	3.0773654	21	—	—
71529 2000 CZ_{84}	14.4	X	18.62286	312.88114	109.49941	6.04001	0.1345210	0.17773035	3.1330090	21	—	—
71530 2000 CQ_{87}	14.5	X	86.22316	24.63154	354.99292	1.77090	0.0790309	0.18013656	3.1050468	21	—	—
71531 2000 CL_{89}	14.2	X	84.47814	40.78000	17.60021	6.93127	0.1826399	0.18497630	3.0506473	21	2 5.9	18.1
71532 2000 CB_{91}	14.2	X	286.22944	199.69661	355.70838	0.20821	0.1303999	0.17855537	3.1233508	21	—	—
71533 2000 CL_{91}	14.0	X	355.15457	151.65010	0.68738	3.93773	0.1025800	0.18301853	3.0723640	21	1 7.9	17.9
71534 2000 CU_{92}	13.4	X	157.46421	271.46652	351.84258	21.47552	0.0403481	0.17002460	3.2269696	21	12 21.6	18.6
71535 2000 CY_{93}	14.5	X	231.04592	39.66874	137.40007	4.07905	0.1324960	0.17137029	3.2100541	21	11 21.4	19.4
71536 2000 CF_{94}	13.8	X	59.17712	169.45600	354.18906	8.91747	0.0457242	0.19088532	2.9873609	21	4 19.9	17.9
71537 2000 CE_{99}	14.7	X	81.24705	269.48428	142.08142	3.75847	0.0795246	0.18412068	3.0600910	21	1 7.4	18.6
71538 Robertfried	14.9	X	111.45912	259.63057	223.30127	12.61914	0.1301241	0.24369973	2.5384349	21	5 18.3	18.3
71539 VanZandt	14.2	X	28.67885	147.81610	279.77438	10.54264	0.0629232	0.17804827	3.1292784	21	—	—
71540 2000 CN_{113}	14.8	X	138.01706	204.18733	128.71539	2.27384	0.0720899	0.18119414	3.0929528	21	—	—
71541 2000 CK_{115}	14.9	X	195.60952	28.31362	165.85292	0.85063	0.0977065	0.17063478	3.2192721	21	11 7.8	19.8
71542 2000 CR_{116}	14.0	X	68.87825	302.36550	103.24206	11.49458	0.1199294	0.18173662	3.0867948	21	—	—
71543 2000 CM_{120}	14.0	X	26.05569	127.09080	264.80784	5.66142	0.1837432	0.17385356	3.1794133	21	—	—
71544 2000 CD_{123}	15.1	X	220.82174	334.63331	87.26290	2.71040	0.0973500	0.20449043	2.8533435	21	6 26.2	19.2
71545 2000 CK_{124}	14.4	X	263.06849	281.86653	343.60256	8.51442	0.0673298	0.18697203	3.0289001	21	2 4.9	19.0
71546 2000 DK_{2}	14.6	X	330.58599	77.68738	96.52479	2.18014	0.1275193	0.18233781	3.0800060	21	—	—
71547 2000 DB_{3}	12.9	X	84.24476	336.39629	15.33975	16.11218	0.0600188	0.17217690	3.2000207	21	—	—
71548 2000 DY_{3}	13.5	X	115.93824	289.81205	352.57085	12.04552	0.0183347	0.17099884	3.2147012	21	11 23.4	18.3
71549 2000 DF_{6}	13.8	X	43.10265	92.76181	2.51403	8.76615	0.0904542	0.18495976	3.0508291	21	1 9.6	17.7
71550 2000 DG_{6}	14.2	X	330.99954	33.91176	26.62623	6.82616	0.0805674	0.17175365	3.2052758	21	11 14.7	18.3
71551 2000 DW_{6}	14.6	X	128.99136	334.21811	20.08307	11.38850	0.0630460	0.18218838	3.0816899	21	—	—
71552 2000 DR_{7}	14.6	X	91.76703	142.71180	180.32258	0.94099	0.1726344	0.17370786	3.1811909	21	—	—
71553 2000 DD_{8}	14.6	X	299.36569	298.94960	131.98582	2.40730	0.0997809	0.16911332	3.2385517	21	10 12.8	18.9
71554 2000 DV_{11}	15.9	X	273.95298	283.65434	174.07913	6.01657	0.1033254	0.25742873	2.4473611	21	10 24.4	18.7
71555 2000 DY_{15}	14.0	X	297.08607	34.53059	56.85362	2.26926	0.1878195	0.17001491	3.2270922	21	10 23.5	17.7
71556 Page	14.5	X	75.93970	159.88204	278.20288	9.45650	0.0964117	0.18619808	3.0372876	21	2 1.1	18.5
71557 2000 DZ_{19}	14.4	X	175.40958	213.69175	142.72030	11.54979	0.0760435	0.18872748	3.0100887	21	2 19.4	18.9
71558 2000 DH_{21}	13.9	X	65.99485	191.11419	153.87956	3.59402	0.0852741	0.17304041	3.1893660	21	12 21.9	18.6
71559 2000 DU_{22}	14.7	X	203.14941	2.92232	345.18385	1.62644	0.2204460	0.19200011	2.9757862	21	3 9.0	19.7
71560 2000 DU_{23}	14.9	X	179.68816	220.46713	145.87586	13.07072	0.0218277	0.18972735	2.9995038	21	3 5.9	19.2
71561 2000 DU_{25}	14.6	X	88.59579	338.00029	43.47938	0.62396	0.1972826	0.18214579	3.0821703	21	—	—
71562 2000 DV_{25}	15.6	X	25.36477	19.12144	129.57970	1.12447	0.0435155	0.18780313	3.0199575	21	2 16.9	19.4
71563 2000 DT_{26}	14.7	X	353.42848	83.77235	50.46222	1.01803	0.0396798	0.18194302	3.0844598	21	—	—
71564 2000 DG_{28}	14.5	X	46.56448	20.52865	3.61914	0.35098	0.1456891	0.17610509	3.1522558	21	—	—
71565 2000 DB_{29}	14.4	X	98.88611	50.32500	335.14013	8.94186	0.1051834	0.18246456	3.0785794	21	1 4.2	18.7
71566 2000 DU_{34}	14.3	X	256.12499	190.51368	348.01343	2.03787	0.0122821	0.17453541	3.1711274	21	—	—
71567 2000 DV_{34}	14.4	X	292.06783	89.21798	150.73388	9.79676	0.0279261	0.18636503	3.0354734	21	2 10.3	18.7
71568 2000 DS_{39}	14.6	X	104.09191	198.19973	177.84404	5.15614	0.1713933	0.18164459	3.0878372	21	1 7.1	18.8
71569 2000 DG_{40}	16.2	X	321.52498	269.32795	302.58900	1.79227	0.1829655	0.27690831	2.3311956	21	1 2.6	19.2
71570 2000 DR_{40}	14.3	X	255.02941	66.20102	161.77222	10.16356	0.0504044	0.17943060	3.1131858	21	—	—
71571 2000 DM_{42}	15.1	X	42.06713	333.53416	135.48597	1.97256	0.1524422	0.18563208	3.0434584	21	1 25.9	18.6
71572 2000 DW_{42}	13.5	X	17.59752	55.04225	340.30520	25.67692	0.2667449	0.17476874	3.1683042	21	—	—
71573 2000 DO_{43}	14.7	X	24.04790	11.48090	115.59764	1.84489	0.0781129	0.18437058	3.0573252	21	1 19.4	18.5
71574 2000 DJ_{49}	14.1	X	95.04347	168.28137	152.52505	24.05825	0.1627361	0.17103635	3.2142312	21	—	—
71575 2000 DC_{50}	14.6	X	61.61743	271.48276	110.23843	1.76548	0.1983785	0.17742666	3.1365831	21	—	—
71576 2000 DH_{53}	14.0	X	167.77698	11.22981	326.64442	7.24719	0.0392716	0.18255567	3.0775551	21	1 19.2	18.4
71577 2000 DU_{55}	14.2	X	56.67231	210.19768	143.39439	1.62502	0.1628078	0.17058327	3.2199200	21	12 31.0	18.9
71578 2000 DO_{57}	15.3	X	110.20956	199.79684	229.79959	1.65340	0.2233070	0.19074503	2.9888255	21	3 25.4	19.8
71579 2000 DO_{58}	14.4	X	151.34943	201.33676	173.97215	10.63716	0.1216282	0.18611733	3.0381660	21	2 19.2	19.1
71580 2000 DH_{59}	14.8	X	130.16351	253.33683	165.45085	10.74771	0.1049622	0.18975020	2.9992630	21	3 21.2	19.1
71581 2000 DG_{60}	14.3	X	147.29906	219.73544	161.86584	9.16006	0.1034573	0.18641802	3.0348982	21	2 21.7	18.9
71582 2000 DD_{61}	14.0	X	348.59231	266.74399	151.48374	5.80657	0.1462156	0.17222282	3.1994519	21	12 12.8	17.8
71583 2000 DW_{61}	14.6	X	48.91653	251.99257	167.05329	6.18906	0.1681484	0.18032860	3.1028419	21	—	—
71584 2000 DD_{62}	14.6	X	283.51948	322.57272	143.55144	1.13157	0.1520181	0.17046299	3.2214346	21	10 26.9	18.7
71585 2000 DS_{64}	14.2	X	340.77865	132.68958	290.01182	1.27100	0.1113376	0.17102864	3.2143277	21	12 3.2	18.0
71586 2000 DV_{66}	14.7	X	59.23426	104.82883	301.02815	0.24915	0.1767253	0.18010759	3.1053797	21	—	—
71587 2000 DX_{66}	15.5	X	331.20333	342.15800	160.63015	3.27312	0.1383938	0.17925398	3.1152304	21	—	—
71588 2000 DK_{68}	14.3	X	14.87921	99.93189	354.45910	4.76889	0.1350836	0.17963233	3.1108546	21	—	—
71589 2000 DF_{69}	14.4	X	329.01530	284.54866	178.08830	5.76562	0.1530081	0.17508792	3.1644526	21	—	—
71590 2000 DN_{71}	14.6	X	73.46080	193.14131	217.33235	0.41967	0.1318512	0.18076043	3.0978982	21	1 2.3	18.4
71591 2000 DP_{71}	13.9	X	294.49411	268.32072	184.97346	1.41501	0.1587975	0.16979382	3.2298930	21	10 25.6	17.8
71592 2000 DM_{76}	14.3	X	308.82426	254.19566	208.86412	1.94934	0.2071934	0.17394435	3.1783069	21	11 26.1	17.7
71593 2000 DP_{77}	14.6	X	328.36002	41.00370	27.59350	2.02324	0.1575024	0.17091174	3.2157932	21	11 19.5	18.3
71594 2000 DT_{77}	14.2	X	23.22800	275.92668	160.00374	10.79885	0.1500613	0.17843511	3.1247541	21	—	—
71595 2000 DW_{77}	14.6	X	337.26568	294.19106	158.05546	5.46829	0.1223316	0.17439108	3.1728767	21	—	—
71596 2000 DG_{80}	13.6	X	46.46800	28.44309	346.46289	12.20813	0.0804817	0.17544351	3.1601753	21	—	—
71597 2000 DD_{83}	14.7	X	109.44916	308.98844	129.93057	11.50010	0.0836183	0.19104610	2.9856846	21	3 21.6	19.0
71598 2000 DG_{84}	14.7	X	170.26130	299.21811	95.63082	6.83233	0.0555538	0.19300005	2.9654989	21	4 2.6	19.1
71599 2000 DP_{84}	14.8	X	134.93057	234.22040	146.93360	2.30621	0.0848522	0.18777853	3.0202212	21	2 5.8	19.0
71600 2000 DK_{87}	14.4	X	337.07680	330.65998	86.67786	6.94416	0.1191929	0.17215171	3.2003328	21	11 22.2	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71601 2000 DJ_{93}	14.2	X	94.16168	42.59418	336.63097	10.40174	0.0845642	0.18147516	3.0897588	21	—	—
71602 2000 DO_{95}	14.6	X	302.13245	359.55573	70.82684	3.10276	0.0995068	0.16853435	3.2459645	21	10 16.2	18.7
71603 2000 DU_{98}	14.1	X	352.51198	306.51353	92.12582	5.82794	0.1429400	0.17103294	3.2142738	21	11 24.3	17.8
71604 2000 DZ_{99}	14.6	X	195.10953	354.84424	23.34858	9.39719	0.0769729	0.19278601	2.9676934	21	4 6.9	18.9
71605 2000 DJ_{101}	14.5	X	181.73806	276.53884	50.96215	6.02898	0.0134930	0.18310655	3.0713794	21	1 21.0	18.9
71606 2000 DY_{101}	14.3	X	41.50110	256.81409	119.85627	7.06831	0.0790575	0.17230576	3.1984251	21	12 29.4	18.8
71607 2000 DO_{102}	14.0	X	352.09764	351.48431	56.56785	5.36830	0.1340313	0.17119456	3.2122505	21	12 3.8	17.7
71608 2000 DN_{105}	13.9	X	34.01706	306.17847	70.27642	5.16729	0.1241234	0.17073537	3.2180074	21	12 25.5	18.2
71609 2000 DH_{106}	14.3	X	339.01101	45.33417	77.54209	5.95553	0.1344873	0.17799316	3.1299243	21	—	—
71610 2000 DT_{107}	14.4	X	318.81255	21.44726	48.49529	4.91594	0.0769731	0.17137798	3.2099582	21	11 10.0	18.6
71611 2000 EA_{7}	14.5	X	359.31799	52.61582	28.51083	4.59232	0.1511327	0.17427229	3.1743184	21	—	—
71612 2000 EH_{12}	13.6	X	25.40438	16.79477	3.84185	14.94865	0.2527112	0.17419432	3.1752656	21	—	—
71613 2000 ET_{12}	14.3	X	242.72900	83.94024	56.90290	10.51952	0.0444810	0.16831312	3.2488081	21	11 2.7	18.9
71614 2000 EF_{18}	14.7	X	37.17387	298.14111	112.60239	14.42105	0.1773931	0.17858044	3.1230586	21	—	—
71615 Ramakers	14.3	X	356.11128	144.77673	271.66124	12.02505	0.1499408	0.21983247	2.7189934	21	—	—
71616 2000 EG_{28}	14.3	X	333.50662	350.42874	95.21165	11.50634	0.0367088	0.17297637	3.1901531	21	12 20.7	18.7
71617 2000 EM_{28}	13.6	X	148.40335	17.27513	49.20070	11.09475	0.1010333	0.19320689	2.9633820	21	4 19.9	18.0
71618 2000 EO_{28}	14.5	X	297.94402	36.75017	73.52466	10.26631	0.0297633	0.17071444	3.2182705	21	12 4.5	18.8
71619 2000 ES_{35}	14.2	X	29.98057	225.35207	199.20737	6.31468	0.1813575	0.17846143	3.1244468	21	—	—
71620 2000 EE_{40}	14.2	X	1.62332	128.29970	351.46319	4.73868	0.1076469	0.17851329	3.1238417	21	—	—
71621 2000 EC_{47}	14.3	X	342.14281	121.25468	8.27241	5.22229	0.0950161	0.17638368	3.1489357	21	—	—
71622 2000 EZ_{47}	14.0	X	65.04658	128.05147	355.35904	1.42460	0.0866147	0.18604309	3.0389742	21	3 15.9	18.0
71623 2000 ET_{53}	14.4	X	116.23562	334.80026	2.97521	0.82942	0.1862230	0.17839181	3.1252597	21	—	—
71624 2000 EK_{57}	13.9	X	45.91118	135.62104	349.92752	10.39104	0.0276559	0.18457518	3.0550655	21	2 17.9	18.0
71625 2000 EM_{63}	14.9	X	32.95894	359.31770	95.19851	1.74658	0.1829620	0.18126521	3.0921443	21	—	—
71626 2000 ER_{66}	14.0	X	263.74651	329.00513	63.91098	2.88255	0.0837423	0.20039716	2.8920669	21	7 11.1	18.0
71627 2000 EY_{66}	14.3	X	249.93693	239.74081	180.73474	16.91461	0.1085568	0.15596230	3.4181383	21	7 22.7	19.7
71628 2000 EJ_{69}	14.0	X	331.37324	119.69871	356.74035	5.05233	0.1438778	0.17462513	3.1700411	21	—	—
71629 2000 EH_{70}	14.5	X	339.58166	52.21700	31.16534	5.00239	0.1172394	0.17159213	3.2072869	21	12 27.7	18.4
71630 2000 EN_{75}	13.9	X	306.60561	290.22372	202.89787	19.62436	0.2218632	0.17322396	3.1871127	21	12 27.0	17.8
71631 2000 EX_{75}	14.0	X	35.80413	13.92298	353.03536	14.66709	0.1898136	0.21850244	2.7300160	21	—	—
71632 2000 ER_{76}	13.7	X	117.85740	66.12142	26.18339	10.01577	0.0306872	0.19177823	2.9780810	21	4 7.3	17.7
71633 2000 EK_{77}	14.8	X	60.95673	335.54936	124.09643	12.50575	0.0740539	0.18568699	3.0428583	21	2 7.9	18.7
71634 2000 EK_{80}	14.0	X	294.96618	73.79139	22.79524	5.23105	0.1048699	0.17028496	3.2236795	21	11 5.2	18.1
71635 2000 EA_{83}	13.9	X	39.94558	348.97633	44.51282	10.07718	0.0789159	0.17372118	3.1810283	21	—	—
71636 2000 EF_{83}	14.4	X	152.37415	19.78587	38.65208	10.23523	0.0768649	0.19165308	2.9793774	21	4 11.9	18.8
71637 2000 ER_{83}	14.0	X	10.38307	126.39609	10.37816	18.58213	0.0652167	0.22876194	2.6477697	21	1 3.7	17.7
71638 2000 EL_{90}	13.7	X	335.58796	268.43431	187.51246	25.28634	0.2300163	0.17576641	3.1563038	21	—	—
71639 2000 EC_{92}	14.0	X	80.39361	281.29338	200.41456	8.35984	0.1687391	0.18994004	2.9972642	21	4 16.1	17.7
71640 2000 EF_{94}	14.5	X	61.81395	174.89803	279.63591	8.00607	0.1133982	0.18400348	3.0613903	21	2 3.9	18.5
71641 2000 ER_{96}	14.4	X	307.92344	7.07331	51.94631	8.36408	0.1876884	0.21086896	2.7955094	21	10 9.1	17.4
71642 2000 EG_{103}	14.6	X	68.27274	245.16868	171.90291	6.12108	0.2626007	0.18324623	3.0698184	21	1 17.8	17.9
71643 2000 EJ_{103}	13.8	X	5.96256	37.66213	63.25251	19.64874	0.2061027	0.18040626	3.1019513	21	—	—
71644 2000 EF_{105}	14.0	X	84.94538	93.59447	51.78856	13.56932	0.1098202	0.19188110	2.9770166	21	5 13.5	18.1
71645 2000 EX_{109}	14.0	X	7.85030	267.07127	223.16948	9.31194	0.0634484	0.18121767	3.0926850	21	—	—
71646 2000 EO_{110}	14.1	X	347.82477	90.73674	29.71343	7.44923	0.1776999	0.17833158	3.1259633	21	—	—
71647 2000 EW_{110}	15.0	X	223.72851	342.10512	106.95902	6.54093	0.2255432	0.20517044	2.8470353	21	7 24.1	19.8
71648 2000 EC_{112}	15.0	X	265.79091	213.15231	230.73965	9.85310	0.1982131	0.21131797	2.7915479	21	8 28.5	19.1
71649 2000 EL_{112}	14.6	X	278.79822	245.50695	209.52605	4.40881	0.0888231	0.16826094	3.2494798	21	10 14.5	18.9
71650 2000 ER_{113}	14.8	X	334.60903	168.66489	303.49813	1.22006	0.1524415	0.17589366	3.1547813	21	—	—
71651 2000 EC_{118}	13.9	X	30.53434	308.32092	103.52611	15.26131	0.0953176	0.17759361	3.1346170	21	—	—
71652 2000 EH_{118}	14.2	X	92.94602	350.21745	51.01861	11.39154	0.1201133	0.18450283	3.0558640	21	1 17.9	18.4
71653 2000 EQ_{118}	13.8	X	38.47367	142.91808	23.01449	10.67637	0.0631512	0.19126587	2.9833971	21	3 30.8	17.6
71654 2000 EY_{119}	15.3	X	83.96297	94.77361	22.25191	9.08463	0.1750754	0.23820403	2.5773297	21	4 10.2	18.3
71655 2000 EF_{121}	13.4	X	249.44089	205.71137	10.14202	10.34126	0.1655849	0.17697369	3.1419330	21	—	—
71656 2000 ET_{121}	13.8	X	51.49109	77.10079	74.35214	11.07952	0.0558025	0.19136088	2.9824095	21	4 3.6	17.9
71657 2000 EP_{122}	15.6	X	54.92872	316.55220	244.97655	5.64229	0.0555510	0.28935083	2.2638773	21	6 2.5	18.0
71658 2000 EQ_{122}	14.3	X	44.42737	248.73080	169.87692	14.03046	0.1361573	0.18030837	3.1030740	21	—	—
71659 2000 EC_{128}	14.6	X	356.39067	349.92681	138.01766	6.03362	0.1073785	0.17959198	3.1113205	21	—	—
71660 2000 EJ_{130}	13.9	X	118.67023	141.67946	160.85936	14.07807	0.0347061	0.17026118	3.2239796	21	12 24.9	18.8
71661 2000 EP_{130}	14.3	X	180.17828	209.21258	22.89820	4.99221	0.0644913	0.16890276	3.2412426	21	12 7.1	19.2
71662 2000 EV_{132}	14.8	X	325.25695	324.76449	159.61163	2.48849	0.1281032	0.17560041	3.1582926	21	—	—
71663 2000 EY_{138}	14.1	X	329.14382	62.53801	68.21009	15.98284	0.1026582	0.17530450	3.1618457	21	—	—
71664 2000 EE_{139}	13.7	X	298.11008	84.11390	85.63566	14.10424	0.1535982	0.17534491	3.1613599	21	—	—
71665 2000 EB_{143}	13.7	X	99.18201	8.21244	302.97855	20.50333	0.0165665	0.17075456	3.2177664	21	12 12.1	18.5
71666 2000 EK_{148}	13.5	X	184.97178	311.14150	23.13614	9.02142	0.0788621	0.17976467	3.1093276	21	2 7.6	18.3
71667 2000 EP_{150}	14.3	X	312.07934	234.35985	313.57283	0.39790	0.1099531	0.18004946	3.1060480	21	—	—
71668 2000 EA_{152}	14.4	X	70.07537	224.68622	246.88879	12.07317	0.0490426	0.18733637	3.0249717	21	2 25.5	18.7
71669 Dodsonprince	14.1	X	351.43052	350.42519	107.88761	15.24139	0.1580003	0.17474088	3.1686410	21	—	—
71670 2000 EP_{157}	14.5	X	41.06684	138.12091	324.82775	13.19329	0.2054257	0.22910563	2.6451210	21	1 4.2	17.0
71671 2000 EM_{166}	13.8	X	79.57482	305.33738	104.10697	12.75185	0.1440796	0.18377124	3.0639689	21	1 10.9	17.6
71672 2000 ER_{166}	14.1	X	279.14297	346.18975	55.12906	10.56227	0.1989768	0.20930479	2.8094196	21	7 27.4	18.0
71673 2000 EZ_{166}	14.0	X	159.56270	351.02235	12.10694	10.82025	0.1058166	0.18740095	3.0242767	21	2 17.0	18.7
71674 2000 EJ_{167}	14.5	X	28.46837	72.99159	15.25113	10.82688	0.0277089	0.18015756	3.1048054	21	—	—
71675 2000 ER_{167}	14.1	X	154.09907	43.50705	36.43691	12.50468	0.0215145	0.19487745	2.9464222	21	5 3.2	18.3
71676 2000 EM_{168}	14.4	X	10.81894	54.13204	24.28851	16.74904	0.2154437	0.17901850	3.1179617	21	—	—
71677 2000 EJ_{171}	14.1	X	196.94336	23.01517	25.78851	17.06233	0.0849715	0.19546104	2.9405546	21	5 11.7	18.7
71678 2000 ET_{172}	15.6	X	157.48966	66.89295	349.48843	0.87093	0.0713755	0.19477573	2.9474480	21	4 12.1	20.0
71679 2000 EY_{181}	14.3	X	42.72737	75.61681	88.88318	11.69249	0.0502607	0.19045814	2.9918262	21	4 8.1	18.4
71680 2000 EJ_{201}	13.4	X	115.38937	309.39384	92.65199	20.91965	0.0701002	0.18538213	3.0461933	21	2 10.8	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71681 2000 FZ_{1}	14.2	X	39.99268	3.66772	31.72251	1.33761	0.1661898	0.17069063	3.2185698	21	—	—
71682 2000 FU_{11}	14.5	X	307.46149	30.18784	33.20038	14.00986	0.1777970	0.21454595	2.7634768	21	10 15.2	17.3
71683 2000 FE_{12}	14.1	X	290.18706	67.97322	77.90433	13.10985	0.0894850	0.22034533	2.7147728	21	—	—
71684 2000 FY_{15}	14.2	X	283.83416	79.13544	80.19310	6.55339	0.1181238	0.17397877	3.1778876	21	—	—
71685 2000 FX_{21}	13.9	X	39.64501	305.43411	76.32153	12.30127	0.0213312	0.16935809	3.2354305	21	12 24.5	18.4
71686 2000 FU_{30}	14.2	X	330.21302	334.94126	148.95249	5.52726	0.1151088	0.17427564	3.1742777	21	—	—
71687 2000 FY_{31}	14.4	X	173.43785	2.81001	55.75571	14.98258	0.0700136	0.19295098	2.9660016	21	5 4.5	18.9
71688 2000 FX_{32}	13.8	X	125.95735	256.50315	39.96402	22.30710	0.0545165	0.16902980	3.2396185	21	12 24.1	19.0
71689 2000 FD_{34}	13.7	X	329.58654	336.52657	133.44001	17.96633	0.1432930	0.17400759	3.1775368	21	—	—
71690 2000 FO_{35}	15.3	X	247.44236	309.51084	159.52043	6.97618	0.2845109	0.20999471	2.8032628	21	9 2.6	19.8
71691 2000 FH_{37}	14.0	X	4.88321	262.24935	165.66332	10.53410	0.1681657	0.17212583	3.2006537	21	—	—
71692 2000 FB_{43}	14.6	X	45.62574	104.53557	15.61942	10.31276	0.1453455	0.18517410	3.0484744	21	2 19.9	18.2
71693 2000 FK_{43}	13.9	X	34.98282	265.17586	162.11595	16.95696	0.1068275	0.17593962	3.1542318	21	—	—
71694 2000 FN_{44}	14.2	X	233.75473	63.87926	92.55933	3.82489	0.1581876	0.16731636	3.2616982	21	10 28.0	19.1
71695 2000 FO_{44}	14.0	X	232.30096	161.22709	48.73111	5.49542	0.1216951	0.17144615	3.2091072	21	12 31.5	18.8
71696 2000 FE_{48}	14.3	X	243.71979	263.58582	146.94079	3.00568	0.1863782	0.19951086	2.9006257	21	6 27.6	18.8
71697 2000 FO_{55}	15.0	X	72.82416	45.06929	75.40428	6.40087	0.1867595	0.18804665	3.0173497	21	4 9.4	18.8
71698 2000 FW_{55}	14.0	X	318.33515	354.04681	131.18736	22.77974	0.0610484	0.17198003	3.2024623	21	—	—
71699 2000 GU_{17}	14.9	X	77.51118	40.88158	43.05817	3.61048	0.2131488	0.18524224	3.0477268	21	3 3.5	18.7
71700 2000 GO_{19}	14.7	X	12.65648	277.72872	205.24563	7.74924	0.1720112	0.18046454	3.1012834	21	—	—
71701 2000 GR_{19}	13.3	X	103.94424	120.28705	248.89158	0.63461	0.1233246	0.12946862	3.8698402	21	1 4.1	18.8
71702 2000 GT_{19}	14.5	X	110.56856	60.17501	359.07278	1.51898	0.1644822	0.18472236	3.0534424	21	3 7.1	18.7
71703 2000 GW_{22}	14.4	X	69.10652	257.19189	183.16001	9.50270	0.0892737	0.18097283	3.0954738	21	1 26.1	18.5
71704 2000 GL_{34}	14.1	X	343.20785	259.35632	207.43452	1.18303	0.1472552	0.17410147	3.1763944	21	—	—
71705 2000 GV_{34}	14.9	X	45.90038	266.81572	202.08689	4.73191	0.1360044	0.18192485	3.0846652	21	1 31.0	18.6
71706 2000 GY_{38}	14.7	X	298.92330	82.98742	25.23884	7.39482	0.2339923	0.21624083	2.7490180	21	11 20.1	17.5
71707 2000 GZ_{56}	14.8	X	17.98162	114.23071	7.82114	0.99704	0.1445049	0.17913761	3.1165795	21	1 2.6	18.4
71708 2000 GT_{77}	15.1	X	346.80144	21.28234	236.90359	0.44356	0.1142037	0.18900507	3.0071406	21	5 8.7	18.6
71709 2000 GX_{80}	14.6	X	31.38902	267.56145	207.59539	14.80210	0.2277630	0.18187009	3.0852844	21	1 12.6	18.0
71710 2000 GG_{83}	14.0	X	15.56778	8.88963	117.41715	15.33394	0.1305085	0.22788779	2.6545364	21	—	—
71711 2000 GU_{83}	14.3	X	325.94846	335.36250	152.07564	15.17201	0.1095685	0.17555249	3.1588674	21	—	—
71712 2000 GK_{95}	15.1	X	46.45485	290.67134	223.86660	9.55506	0.2834330	0.18754679	3.0227087	21	4 20.1	18.0
71713 2000 GN_{98}	13.9	X	123.59915	11.66902	207.60986	17.75191	0.0831257	0.15772052	3.3926879	21	9 22.3	19.2
71714 2000 GZ_{100}	15.5	X	315.77419	116.86164	342.27015	6.21834	0.0829035	0.26254338	2.4154720	21	—	—
71715 2000 GE_{108}	13.8	X	321.27210	100.77614	42.80826	17.50898	0.1487663	0.17401292	3.1774720	21	—	—
71716 2000 GX_{112}	14.3	X	18.56254	42.38194	81.30931	2.15889	0.1352346	0.18202597	3.0835227	21	1 5.3	18.0
71717 2000 GP_{115}	14.1	X	194.22591	217.88742	102.92935	2.71629	0.1688766	0.17791542	3.1308360	21	1 31.5	19.3
71718 2000 GV_{124}	13.4	X	48.71447	29.99991	73.24999	18.12628	0.1863611	0.17949137	3.1124831	21	2 9.3	17.2
71719 2000 GT_{137}	14.6	X	329.45681	174.90554	278.11912	13.53208	0.1488860	0.21972818	2.7198537	21	—	—
71720 2000 GK_{167}	14.5	X	357.99990	156.64530	309.15583	11.88547	0.1454070	0.22420143	2.6835547	21	—	—
71721 2000 GL_{167}	14.3	X	57.96872	144.45322	319.95542	13.63723	0.2013827	0.18630707	3.0361029	21	2 20.1	17.7
71722 2000 GB_{169}	14.1	X	53.33263	14.86847	57.09929	20.62641	0.1405050	0.17655590	3.1468875	21	—	—
71723 2000 GS_{171}	14.8	X	347.70775	325.06098	216.89529	4.12726	0.1662786	0.18387717	3.0627920	21	1 24.1	18.6
71724 2000 GB_{186}	14.2	X	99.64585	329.17488	192.84631	9.87010	0.0389050	0.14757034	3.5465274	21	6 14.4	19.4
71725 2000 HN_{9}	14.4	X	342.75243	65.63751	84.40273	2.21632	0.1376539	0.17638626	3.1489049	21	—	—
71726 2000 HQ_{24}	13.5	X	320.37978	93.77362	41.60273	13.67523	0.1600753	0.17223480	3.1993036	21	—	—
71727 2000 HB_{25}	13.3	X	51.88542	232.64098	224.72008	17.00602	0.1417485	0.17916717	3.1162366	21	1 23.2	17.4
71728 2000 HE_{64}	14.3	X	46.09820	192.60286	285.28370	6.37608	0.2477669	0.18419471	3.0592709	21	2 20.1	17.3
71729 2000 HQ_{91}	13.6	X	97.56693	32.70426	33.11766	17.47294	0.2097333	0.17934511	3.1141751	21	3 14.9	18.2
71730 2000 JY_{3}	16.5	X	217.09273	152.95906	201.98763	20.99458	0.0980578	0.36751816	1.9302646	21	3 6.7	19.3
71731 2000 JO_{35}	13.5	X	49.87631	9.14218	44.13819	1.10655	0.2135505	0.17075770	3.2177269	21	—	—
71732 2000 JU_{37}	15.5	X	40.04155	12.22391	260.41083	1.62972	0.2104563	0.24065821	2.5597778	21	9 15.3	18.3
71733 2000 JQ_{47}	13.6	X	329.06203	228.15158	248.50022	17.89523	0.2221534	0.17215145	3.2003361	21	—	—
71734 2000 LX_{9}	15.7	X	266.09227	75.91552	265.61466	19.33523	0.0872938	0.36786424	1.9290538	21	4 15.4	18.5
71735 2000 MJ_{1}	15.3	X	305.78456	67.61098	279.42071	17.43383	0.0847589	0.37331627	1.9102261	21	7 6.9	16.4
71736 2000 OB_{54}	16.2	X	114.92845	229.83602	307.89848	19.51438	0.0668978	0.37567184	1.9022326	21	7 31.9	18.0
71737 2000 PV_{6}	15.3	X	62.60935	211.30619	278.12456	17.72575	0.0810611	0.35932413	1.9594994	21	2 2.9	17.1
71738 2000 PW_{18}	14.8	X	226.93468	238.25888	124.59675	3.02229	0.2198151	0.17542697	3.1603740	21	4 15.9	20.2
71739 2000 QG_{25}	16.1	X	330.25113	32.05062	165.18948	23.02400	0.0211317	0.35425785	1.9781371	21	—	—
71740 2000 QV_{25}	16.1	X	70.48350	222.91921	21.60343	21.28203	0.0271887	0.37497721	1.9045811	21	9 15.5	18.2
71741 2000 QF_{34}	15.8	X	189.45515	54.27753	342.41667	18.17140	0.1323528	0.36295038	1.9464259	21	4 1.4	18.6
71742 2000 QU_{35}	16.6	X	176.40437	41.71888	315.96695	18.09884	0.0636577	0.35844221	1.9627122	21	1 23.9	18.7
71743 2000 QO_{117}	15.5	X	326.83954	272.21729	345.52449	19.20986	0.0533079	0.36379375	1.9434165	21	3 16.6	17.4
71744 2000 QP_{147}	16.6	X	96.84900	288.99974	173.92298	23.12043	0.0882299	0.35921812	1.9598849	21	3 4.0	18.3
71745 2000 QG_{180}	16.0	X	345.89568	233.75642	345.96998	18.71387	0.0648070	0.36116101	1.9528497	21	2 22.2	17.7
71746 2000 QZ_{180}	15.4	X	3.91341	77.77777	35.08241	7.71678	0.1200283	0.29068850	2.2569269	21	—	—
71747 2000 QU_{181}	16.1	X	141.46112	90.34375	298.42539	4.00648	0.1631274	0.30049817	2.2075379	21	2 13.4	19.0
71748 2000 QD_{182}	14.8	X	13.65048	105.88960	10.75947	4.35701	0.0683759	0.29608110	2.2294390	21	—	—
71749 2000 QU_{194}	15.5	X	212.09783	0.40160	17.50708	3.70665	0.1698014	0.31507164	2.1389297	21	4 11.8	18.7
71750 2000 RV_{3}	16.2	X	170.15729	17.50583	358.27254	5.12588	0.2010431	0.30746926	2.1740436	21	3 3.8	19.4
71751 2000 RS_{10}	15.1	X	288.78698	7.98476	95.61771	7.56489	0.0636338	0.28053219	2.3110761	21	12 4.2	17.5
71752 2000 RL_{11}	15.8	X	219.97133	238.36218	120.78168	4.93785	0.0467311	0.30737783	2.1744747	21	3 31.5	18.5
71753 2000 RB_{39}	15.2	X	272.52889	62.01377	74.93770	6.21740	0.1381618	0.28172685	2.3045381	21	12 15.6	17.3
71754 2000 RO_{45}	14.5	X	31.35500	337.26151	336.46691	7.42437	0.1273469	0.28154013	2.3055569	21	10 19.9	17.2
71755 2000 RD_{51}	16.0	X	241.03879	14.91787	1.68551	1.38783	0.1108736	0.31554784	2.1367772	21	5 13.6	18.8
71756 2000 RQ_{51}	15.1	X	358.32161	275.36084	214.36141	6.14284	0.1002887	0.29522033	2.2337704	21	—	—
71757 2000 RA_{53}	16.1	X	244.04410	186.39782	184.61508	4.44245	0.1675144	0.31334474	2.1467812	21	5 5.8	19.2
71758 2000 RR_{54}	14.7	X	139.27457	169.83688	306.30361	9.32184	0.1594482	0.26430587	2.4047218	21	6 11.9	18.4
71759 2000 RE_{61}	14.8	X	83.18059	70.03289	88.38350	8.06374	0.1428082	0.25978342	2.4325499	21	5 30.9	17.7
71760 2000 RQ_{67}	15.0	X	76.51392	266.31403	37.29650	7.18330	0.1331081	0.28531718	2.2851643	21	12 8.1	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71761 2000 RJ_{100}	15.9	X	215.77044	116.46098	215.81016	20.50196	0.0674671	0.35681238	1.9686844	21	1 29.4	18.9
71762 2000 RZ_{103}	15.9	X	344.45720	71.81796	337.66724	7.42039	0.0925803	0.28571924	2.2830200	21	12 20.5	18.4
71763 2000 SF_{3}	16.0	X	169.02202	34.27965	19.69918	19.43248	0.1172310	0.36082240	1.9540712	21	4 9.9	18.2
71764 2000 SG_{3}	15.9	X	109.45269	62.57101	32.23238	21.20499	0.0923260	0.35778416	1.9651181	21	3 26.3	18.0
71765 2000 SU_{4}	15.0	X	174.25953	78.60521	17.28260	21.44340	0.0614484	0.36726973	1.9311350	21	6 10.7	17.8
71766 2000 SD_{22}	14.6	X	202.14416	319.04399	55.77087	5.24917	0.1666108	0.17214994	3.2003548	21	4 11.7	19.9
71767 2000 SM_{24}	15.5	X	238.03217	182.89317	229.12750	20.43099	0.1269320	0.36874639	1.9259760	21	6 24.9	18.2
71768 2000 SM_{59}	16.3	X	57.03037	229.16886	305.38623	2.07374	0.0376435	0.31460125	2.1410612	21	4 19.2	18.4
71769 2000 SU_{59}	16.8	X	290.44677	294.66998	331.14510	2.48650	0.0461392	0.31055663	2.1596109	21	2 17.6	19.1
71770 2000 SL_{75}	15.7	X	169.64931	180.53905	124.27037	4.39566	0.1483035	0.29969768	2.2114670	21	—	—
71771 2000 SR_{75}	16.4	X	198.24079	230.28449	74.61346	5.31327	0.0857292	0.30253451	2.1976209	21	—	—
71772 2000 SG_{105}	15.7	X	242.18234	108.85010	66.17032	4.14669	0.1014353	0.28921758	2.2645726	21	12 29.2	18.2
71773 2000 SO_{106}	15.0	X	162.15180	174.12281	356.92167	9.68080	0.1350438	0.27870614	2.3211597	21	9 16.3	18.4
71774 2000 SA_{121}	16.3	X	158.72941	208.22683	128.62333	3.91046	0.0580735	0.30026067	2.2087018	21	—	—
71775 2000 SB_{122}	17.3	X	222.33531	177.09408	174.08605	4.79745	0.1701973	0.31143190	2.1555627	21	3 17.9	20.3
71776 2000 SJ_{123}	15.9	X	94.94257	352.31962	125.86461	4.98481	0.0918765	0.30837138	2.1698015	21	4 7.9	18.1
71777 2000 SM_{128}	15.7	X	226.97715	18.26331	149.74462	5.86202	0.0973432	0.28479816	2.2879398	21	11 29.2	18.6
71778 2000 SP_{128}	16.2	X	155.51859	242.65271	60.98796	8.22316	0.1798627	0.29716479	2.2240155	21	—	—
71779 2000 SJ_{129}	16.3	X	50.77060	301.03036	234.67307	19.19206	0.0639770	0.35951548	1.9588040	21	3 31.4	18.3
71780 2000 SM_{145}	16.6	X	90.55123	267.65518	210.55102	3.33071	0.0919430	0.30889441	2.1673515	21	3 28.1	18.6
71781 2000 SZ_{145}	16.4	X	290.48682	297.90669	342.98049	2.65742	0.0954394	0.31184680	2.1536503	21	3 3.6	19.0
71782 2000 SC_{160}	15.8	X	231.99937	226.53449	335.30701	25.10944	0.1543988	0.29441649	2.2378345	21	—	—
71783 Izeryna	16.7	X	306.44245	296.17607	287.27903	2.12096	0.1162257	0.30695014	2.1764941	21	1 2.1	19.4
71784 2000 SG_{171}	14.9	X	201.92675	176.67380	19.89216	8.36454	0.1152609	0.28548229	2.2842831	21	11 30.8	18.2
71785 2000 SY_{177}	15.1	X	162.71837	208.02046	350.94915	7.27704	0.1177700	0.28055221	2.3109662	21	10 20.8	18.6
71786 2000 SH_{178}	15.9	X	40.91967	134.17912	334.56895	5.53914	0.0928965	0.29918588	2.2139883	21	—	—
71787 2000 SJ_{180}	16.4	X	134.73147	147.65202	263.76551	5.53489	0.0546675	0.30593301	2.1813155	21	2 16.9	18.9
71788 2000 ST_{180}	15.8	X	38.14489	166.85206	208.96316	7.62431	0.0534363	0.28566383	2.2833153	21	—	—
71789 2000 SQ_{188}	16.6	X	216.98056	327.43564	346.59014	1.56402	0.1573106	0.30622109	2.1799472	21	1 25.3	19.9
71790 2000 SB_{193}	16.4	X	57.35712	13.76043	115.40706	0.77789	0.0785810	0.30600283	2.1809837	21	2 15.1	18.1
71791 2000 SE_{198}	16.3	X	355.35954	98.79282	107.86548	5.76111	0.0465023	0.31087310	2.1581450	21	3 1.6	18.5
71792 2000 SD_{211}	15.6	X	77.67295	200.05316	116.32434	5.78524	0.1367102	0.28909782	2.2651980	21	12 27.7	18.8
71793 2000 SN_{227}	16.4	X	89.48951	244.74609	128.67793	6.74584	0.1314924	0.29509117	2.2344222	21	—	—
71794 2000 ST_{227}	13.9	X	195.69871	118.61565	64.29898	13.10644	0.1133657	0.22708800	2.6607654	21	11 3.1	17.9
71795 2000 SB_{230}	16.0	X	356.46082	81.71273	23.58093	2.14438	0.0937793	0.29367594	2.2415949	21	—	—
71796 2000 SU_{230}	16.7	X	216.45703	333.85680	36.33845	3.17086	0.0964020	0.31169152	2.1543655	21	4 8.0	19.4
71797 2000 SY_{239}	16.8	X	216.49766	313.09727	17.09393	3.94595	0.1739224	0.30858068	2.1688203	21	2 15.4	20.0
71798 2000 SD_{240}	16.2	X	335.65801	331.98813	201.40391	21.54681	0.0525534	0.35390597	1.9794481	21	—	—
71799 2000 SE_{260}	16.3	X	337.66759	42.46615	94.41375	6.57126	0.0130937	0.29621607	2.2287617	21	—	—
71800 2000 SM_{264}	15.0	X	354.77526	317.67539	340.09957	0.43033	0.0771240	0.18078593	3.0976068	21	7 16.9	18.7
71801 2000 SZ_{265}	16.3	X	254.56319	217.12836	73.08624	5.29756	0.0496627	0.30738811	2.1744262	21	2 6.9	19.0
71802 2000 SO_{272}	16.8	X	186.00643	301.42044	354.63362	2.54249	0.1191921	0.30042889	2.2078772	21	—	—
71803 2000 SF_{275}	14.9	X	289.61716	126.30612	53.95962	6.41166	0.0917681	0.29421693	2.2388463	21	—	—
71804 2000 SC_{278}	16.6	X	269.71516	276.81237	26.23114	3.13768	0.1606682	0.31154790	2.1550275	21	3 3.2	19.6
71805 2000 SG_{295}	15.8	X	97.00175	28.46418	350.79628	6.60562	0.1665068	0.29542436	2.2327418	21	—	—
71806 2000 SF_{296}	14.8	X	192.54388	263.96368	242.97806	21.75074	0.2229246	0.27149539	2.3620789	21	8 30.8	19.3
71807 2000 SF_{301}	15.9	X	9.32502	216.34339	305.96300	3.44753	0.0908436	0.30451164	2.1880981	21	1 10.9	17.9
71808 2000 SX_{306}	15.5	X	228.96576	238.86513	288.06547	2.63957	0.1182947	0.28574798	2.2828669	21	11 25.5	18.2
71809 2000 SX_{319}	15.4	X	274.75269	137.40792	339.70820	10.31188	0.1460297	0.28247629	2.3004602	21	11 15.1	18.0
71810 2000 TJ_{15}	16.5	X	198.33702	239.14846	18.17228	3.50936	0.0128043	0.29485105	2.2356352	21	—	—
71811 2000 TG_{28}	16.4	X	220.83488	262.88934	350.54876	5.82438	0.1257490	0.29946538	2.2126105	21	—	—
71812 2000 TT_{67}	15.9	X	297.37438	259.32996	317.38417	1.28806	0.1212121	0.30209718	2.1997413	21	—	—
71813 2000 UZ	16.1	X	349.23888	149.13909	194.08045	3.21849	0.1805583	0.27838405	2.3229497	21	9 22.6	17.8
71814 2000 UU_{2}	15.8	X	188.34200	276.80462	222.10888	3.09641	0.1065511	0.27292320	2.3538335	21	8 30.7	19.3
71815 2000 UB_{5}	15.7	X	180.74692	176.57162	43.86413	4.66142	0.0378107	0.28494930	2.2871307	21	12 16.9	18.6
71816 2000 UY_{7}	15.5	X	137.21362	297.77199	202.55078	5.70646	0.0380858	0.26901501	2.3765760	21	6 30.8	18.6
71817 2000 UR_{12}	15.5	X	239.69697	106.06266	9.92938	6.72883	0.0585850	0.27972404	2.3155253	21	10 8.9	18.3
71818 2000 UH_{19}	15.7	X	174.62818	237.00579	220.44557	23.56842	0.0906774	0.36819276	1.9279061	21	6 16.6	18.5
71819 2000 UJ_{19}	16.7	X	224.35953	275.31261	73.22360	6.13935	0.1912477	0.31098683	2.1576188	21	3 19.5	20.1
71820 2000 UF_{24}	15.8	X	225.92810	1.99153	93.10275	4.67023	0.1682216	0.27291336	2.3538901	21	8 10.5	19.2
71821 2000 UR_{34}	16.1	X	341.32800	237.82546	235.69475	3.89661	0.1225021	0.29197746	2.2502797	21	—	—
71822 2000 UZ_{35}	15.1	X	205.13338	91.64467	52.07167	3.21763	0.1800191	0.27636733	2.3342368	21	9 21.9	18.7
71823 2000 UG_{36}	16.2	X	76.10040	55.68036	42.57149	3.66931	0.1134814	0.30208399	2.1998053	21	2 7.6	18.1
71824 2000 UA_{41}	15.4	X	155.39875	324.54852	245.47450	5.08664	0.0962061	0.28034090	2.3121273	21	10 29.4	18.7
71825 2000 UW_{41}	15.3	X	221.04856	72.97103	45.92340	7.34720	0.0554927	0.27634469	2.3343643	21	9 22.1	18.4
71826 2000 UX_{43}	15.6	X	302.93803	270.87330	258.73953	4.20458	0.0340914	0.29423828	2.2387380	21	—	—
71827 2000 UD_{46}	16.0	X	254.01058	30.59698	270.79843	2.44063	0.1470404	0.30776994	2.1726274	21	2 12.3	19.2
71828 2000 UE_{53}	16.1	X	317.10095	211.95941	95.17663	0.46053	0.1774846	0.31755103	2.1277815	21	5 6.4	17.7
71829 2000 UK_{53}	15.3	X	194.73887	109.51311	69.24072	7.07532	0.0435647	0.28129790	2.3068803	21	11 9.0	18.2
71830 2000 UL_{56}	16.0	X	113.44379	225.05813	88.88283	4.81033	0.1481149	0.29050496	2.2578774	21	—	—
71831 2000 UN_{56}	15.8	X	141.44391	237.19230	177.25084	4.17357	0.0858805	0.30527055	2.1844701	21	3 9.7	18.3
71832 2000 UQ_{63}	14.7	X	242.26592	208.06514	14.71232	7.05340	0.1590084	0.29484236	2.2356791	21	—	—
71833 2000 UJ_{65}	16.3	X	338.95088	261.86935	322.83108	3.51706	0.0528894	0.30888584	2.1673916	21	2 26.9	18.4
71834 2000 UL_{65}	16.2	X	131.80799	278.99973	5.72868	6.83254	0.1120327	0.29087854	2.2559437	21	—	—
71835 2000 UJ_{69}	16.2	X	275.91343	77.61090	15.11475	7.19026	0.0719260	0.28092741	2.3089081	21	10 26.1	18.7
71836 2000 UO_{69}	16.2	X	249.71110	209.17385	347.50973	3.36274	0.0628212	0.29181758	2.2511015	21	—	—
71837 2000 US_{69}	15.4	X	127.28060	149.71118	11.25177	4.63916	0.1765767	0.26824692	2.3811105	21	8 1.5	19.0
71838 2000 UK_{70}	15.6	X	115.19247	234.49812	347.33303	4.14165	0.1223994	0.27714384	2.3298747	21	10 2.4	19.0
71839 2000 UW_{70}	16.6	X	120.25749	298.05975	10.99334	5.13462	0.1827711	0.29234015	2.2484181	21	—	—
71840 2000 US_{74}	15.7	X	241.29650	173.39381	31.79137	5.22443	0.1252975	0.29144939	2.2529970	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71841 2000 UY_{77}	16.3	X	113.78782	281.61900	43.53476	5.27186	0.1910329	0.29313101	2.2443721	21	—	—
71842 2000 UG_{80}	15.8	X	94.87046	342.91801	47.94561	5.96432	0.1565707	0.29589038	2.2303969	21	—	—
71843 2000 UL_{80}	16.1	X	318.44365	213.58656	30.96784	3.45865	0.0830617	0.30691597	2.1766556	21	2 22.8	18.6
71844 2000 UB_{81}	15.8	X	16.19136	270.65012	55.05582	6.98787	0.1787853	0.27818951	2.3240326	21	10 25.4	17.9
71845 2000 UN_{93}	15.3	X	101.34207	294.13801	240.69105	9.72379	0.0895881	0.26870347	2.3784126	21	7 7.6	18.5
71846 2000 UM_{96}	15.7	X	227.97228	217.93821	264.30056	5.85214	0.0541605	0.27779900	2.3262101	21	9 29.2	18.8
71847 2000 UU_{97}	15.6	X	337.14494	305.69657	1.23421	6.42487	0.1093524	0.27118002	2.3639099	21	6 28.5	18.0
71848 2000 UJ_{100}	15.7	X	258.96553	98.31101	337.76455	4.07255	0.1431786	0.27477761	2.3432313	21	8 26.6	18.4
71849 2000 UB_{102}	15.8	X	147.69083	215.40487	296.10737	4.26986	0.0724228	0.27067123	2.3668714	21	8 2.0	19.1
71850 2000 UJ_{103}	15.2	X	79.50370	306.62374	349.44556	5.68506	0.1207801	0.28213793	2.3022990	21	11 29.4	18.5
71851 2000 UN_{104}	15.6	X	199.36514	273.10172	323.83865	5.10486	0.0286105	0.28866797	2.2674461	21	—	—
71852 2000 UU_{105}	15.3	X	162.96712	80.94344	97.86767	7.24778	0.0523734	0.27858498	2.3218327	21	10 2.3	18.5
71853 2000 UE_{109}	16.2	X	280.32760	316.25840	143.02858	5.10086	0.1332919	0.28115091	2.3076842	21	11 6.6	18.5
71854 2000 UF_{109}	16.5	X	82.28343	289.74743	139.40903	5.08014	0.1096942	0.29918819	2.2139769	21	1 3.9	18.5
71855 2000 UF_{110}	15.4	X	261.17210	282.68208	273.30917	11.61379	0.0816462	0.24453170	2.5326738	21	—	—
71856 2000 VV_{4}	16.4	X	265.42261	280.19766	205.24482	5.18248	0.1333813	0.28221801	2.3018635	21	11 18.5	18.8
71857 2000 VY_{10}	16.4	X	271.10265	288.26730	33.86816	2.10068	0.1510525	0.31354034	2.1458882	21	3 30.4	19.1
71858 2000 VM_{12}	16.6	X	103.75820	300.78414	69.67882	5.13325	0.0296973	0.29550387	2.2323413	21	—	—
71859 2000 VR_{14}	15.9	X	185.10662	210.15764	89.62828	5.01209	0.1893674	0.29905899	2.2146145	21	—	—
71860 2000 VD_{18}	15.8	X	323.93581	28.37823	179.19088	4.99932	0.0731295	0.30112053	2.2044951	21	1 9.8	18.4
71861 2000 VP_{18}	16.3	X	59.16349	170.50907	213.52557	6.56070	0.1156090	0.29079398	2.2563811	21	—	—
71862 2000 VO_{23}	15.4	X	19.75312	242.45448	231.67800	4.61345	0.1240885	0.29607578	2.2294657	21	—	—
71863 2000 VE_{26}	16.0	X	146.10908	349.76527	236.96508	5.40114	0.0598463	0.28142552	2.3061828	21	11 11.2	19.2
71864 2000 VV_{26}	15.8	X	180.38768	276.89122	226.70158	2.15851	0.0930532	0.27239998	2.3568467	21	8 29.1	19.1
71865 2000 VE_{27}	15.4	X	201.28828	22.59419	92.04670	7.48816	0.0600581	0.27194120	2.3594967	21	8 19.8	18.6
71866 2000 VN_{27}	16.0	X	23.35861	317.25345	75.68029	6.33424	0.1567401	0.28719478	2.2751936	21	—	—
71867 2000 VX_{28}	15.9	X	252.43659	306.92138	196.72874	5.14655	0.0976166	0.28167071	2.3048443	21	11 29.9	18.6
71868 2000 VX_{30}	14.9	X	157.02628	51.90218	204.74636	5.48056	0.1723615	0.28517950	2.2858998	21	12 27.8	18.5
71869 2000 VF_{32}	15.8	X	124.46824	326.29837	63.49774	6.29082	0.0313310	0.29899151	2.2149477	21	1 3.9	18.4
71870 2000 VZ_{32}	16.0	X	255.30804	194.64517	163.54002	1.18110	0.0935067	0.31317397	2.1475615	21	5 7.8	18.5
71871 2000 VD_{37}	15.5	X	157.91335	237.98406	211.80665	3.30809	0.1450290	0.25934660	2.4352806	21	5 26.8	19.0
71872 2000 VB_{42}	15.9	X	222.48359	276.78374	284.55116	2.36526	0.1152982	0.28869076	2.2673268	21	—	—
71873 2000 VV_{46}	16.1	X	43.88188	124.19806	336.72152	4.09115	0.1611319	0.29632636	2.2282087	21	—	—
71874 2000 VM_{47}	14.8	X	163.71395	219.84957	21.28476	7.34137	0.0812333	0.28383787	2.2930974	21	12 19.7	18.1
71875 2000 VT_{48}	16.1	X	350.79861	56.64936	25.77943	1.15265	0.1909095	0.28729212	2.2746796	21	—	—
71876 2000 VK_{49}	15.8	X	82.08755	337.37339	54.14431	5.67413	0.1384619	0.29426198	2.2386178	21	—	—
71877 2000 VT_{49}	15.6	X	351.20933	26.98365	52.52498	6.73598	0.0659685	0.28697944	2.2763316	21	—	—
71878 2000 VA_{50}	15.8	X	125.59056	301.26318	54.26339	4.10295	0.1956309	0.29648140	2.2274318	21	—	—
71879 2000 VS_{50}	15.8	X	255.17598	256.54094	252.66657	6.24079	0.1486438	0.28198027	2.3031571	21	12 2.9	18.0
71880 2000 VR_{51}	16.6	X	322.51658	291.64471	356.64878	5.80771	0.0932097	0.31481909	2.1400734	21	4 28.9	18.7
71881 2000 VG_{52}	15.5	X	320.49136	283.49564	356.98356	6.44178	0.1089932	0.26553089	2.3973200	21	4 17.1	18.2
71882 2000 VR_{53}	15.2	X	65.96931	231.28464	30.03534	7.87065	0.0868057	0.27566509	2.3381993	21	9 24.9	18.0
71883 2000 VO_{56}	16.2	X	283.91107	93.59217	24.92718	6.21029	0.1139693	0.28290267	2.2981482	21	12 11.5	18.6
71884 2000 VK_{59}	14.9	X	211.74932	87.05445	21.24691	10.97703	0.2764500	0.26781647	2.3836612	21	8 9.5	19.1
71885 Denning	15.7	X	312.00680	222.39882	231.38034	5.89197	0.1149941	0.28380423	2.2932785	21	12 27.7	17.8
71886 2000 WH	15.8	X	280.40313	348.64743	170.20043	0.55525	0.1125989	0.28604886	2.2812659	21	—	—
71887 2000 WW	15.3	X	247.54826	183.80810	42.94838	5.87539	0.1022749	0.29311867	2.2444351	21	—	—
71888 2000 WN_{5}	15.6	X	289.48801	200.00729	342.65520	5.77726	0.0961771	0.29233271	2.2484563	21	—	—
71889 2000 WT_{5}	16.1	X	173.84557	75.67055	316.05310	5.57401	0.1170961	0.30678142	2.1772920	21	3 18.9	19.0
71890 2000 WK_{6}	16.8	X	203.69143	281.96772	87.04772	2.92148	0.1183476	0.30708756	2.1758447	21	3 24.9	19.9
71891 2000 WV_{6}	15.6	X	16.87419	123.71233	324.31568	5.75506	0.1594651	0.29026529	2.2591201	21	—	—
71892 2000 WY_{6}	15.7	X	273.62340	115.29053	344.31256	6.34626	0.0578581	0.27792053	2.3255319	21	11 1.4	18.6
71893 2000 WM_{7}	16.0	X	82.34038	279.98530	13.78023	8.00287	0.1557306	0.28294232	2.2979334	21	12 2.9	19.4
71894 2000 WS_{9}	15.1	X	239.98177	7.84697	100.84550	5.89157	0.1578115	0.27268744	2.3551901	21	9 17.2	18.3
71895 2000 WM_{11}	15.8	X	39.66393	208.27389	264.75931	4.73277	0.1039641	0.29496264	2.2350713	21	—	—
71896 2000 WN_{11}	16.7	X	309.30225	138.38568	166.20988	1.76201	0.2213686	0.26230078	2.4169611	21	4 18.7	19.4
71897 2000 WQ_{14}	15.4	X	193.96188	203.82262	37.37042	6.47273	0.1537476	0.28786730	2.2716486	21	—	—
71898 2000 WU_{14}	16.0	X	186.33707	217.30878	274.19963	5.83017	0.1160965	0.27038457	2.3685440	21	8 17.1	19.5
71899 2000 WA_{16}	16.3	X	182.86416	256.49254	56.87257	5.58349	0.1682304	0.29937473	2.2130571	21	—	—
71900 2000 WU_{18}	14.9	X	104.91961	349.49285	254.55910	6.27681	0.0674103	0.27556614	2.3387590	21	10 13.6	18.0
71901 2000 WS_{23}	15.1	X	53.35335	92.75877	159.95788	6.99551	0.0931220	0.27113798	2.3641543	21	8 22.1	17.8
71902 2000 WB_{25}	15.5	X	48.62804	33.01858	30.82179	4.57194	0.1456581	0.29053578	2.2577177	21	—	—
71903 2000 WO_{25}	15.4	X	71.71924	116.85065	66.14159	7.18360	0.0805295	0.26273694	2.4142855	21	6 6.4	18.0
71904 2000 WB_{27}	15.9	X	192.84678	255.00608	269.51826	3.96550	0.0703755	0.27712231	2.3299954	21	10 11.8	19.2
71905 2000 WF_{27}	14.8	X	202.19847	218.32972	298.31406	9.91686	0.1724894	0.22306354	2.6926732	21	9 25.0	19.3
71906 2000 WP_{30}	16.2	X	48.86069	319.34618	113.32590	5.67014	0.0913908	0.29483241	2.2357294	21	—	—
71907 2000 WN_{32}	15.2	X	358.66757	72.14581	179.87963	6.77136	0.1285960	0.26362878	2.4088375	21	5 14.8	17.5
71908 2000 WC_{37}	14.9	X	277.82308	58.43551	128.97664	6.68656	0.1270991	0.28866145	2.2674803	21	—	—
71909 2000 WV_{39}	16.5	X	300.41328	254.01043	193.30314	6.05976	0.0584319	0.28172014	2.3045747	21	11 30.2	19.0
71910 2000 WJ_{41}	16.0	X	299.46838	339.83838	155.11890	6.51155	0.1860750	0.28302891	2.2974647	21	—	—
71911 2000 WK_{43}	16.4	X	336.30978	4.62812	190.98378	4.10927	0.0629109	0.30047548	2.2076490	21	1 12.3	19.0
71912 2000 WQ_{43}	15.4	X	327.63956	184.72026	62.74088	10.58849	0.2153436	0.25824941	2.4421734	21	3 4.2	18.5
71913 2000 WF_{45}	16.2	X	19.27599	275.81970	86.27393	5.67108	0.0716819	0.28286094	2.2983741	21	12 4.6	18.6
71914 2000 WO_{45}	15.9	X	75.39256	287.89355	112.44169	3.75777	0.0298480	0.29439413	2.2379478	21	—	—
71915 2000 WK_{48}	15.5	X	286.79993	327.00752	102.72374	14.04234	0.1026167	0.27524865	2.3405572	21	10 14.7	18.4
71916 2000 WV_{48}	15.5	X	227.10772	324.77917	181.60950	4.11453	0.2185232	0.27422474	2.3463797	21	10 12.8	19.0
71917 2000 WK_{49}	15.2	X	25.75578	274.53034	120.72023	8.03929	0.1916288	0.28352083	2.2948065	21	—	—
71918 2000 WN_{54}	15.3	X	207.07484	44.48650	69.43609	4.15883	0.1276147	0.26756249	2.3851694	21	8 19.4	18.8
71919 2000 WT_{54}	15.6	X	219.23761	39.10535	40.30220	2.87458	0.1521717	0.26585586	2.3953661	21	7 13.8	19.3
71920 2000 WX_{54}	14.6	X	268.73945	234.96654	295.49681	14.21685	0.0706271	0.23435148	2.6054990	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
71921 2000 WY_{54}	15.6	X	314.21338	9.09373	79.31448	6.50762	0.1363883	0.27939193	2.3173598	21	12 22.9	17.3
71922 2000 WW_{55}	15.0	X	315.38061	113.43426	53.63515	5.38309	0.2400967	0.23764533	2.5813676	21	—	—
71923 2000 WB_{56}	15.3	X	159.41971	38.54802	67.09053	5.47926	0.0837008	0.25933196	2.4353723	21	6 14.6	18.8
71924 2000 WE_{56}	15.4	X	177.06424	30.90081	40.08486	3.09695	0.1104385	0.25857229	2.4401399	21	5 19.8	18.9
71925 2000 WQ_{56}	16.2	X	252.41608	309.48932	52.06123	4.82053	0.1167263	0.31430873	2.1423894	21	5 6.1	18.7
71926 2000 WN_{59}	16.4	X	151.53114	249.10063	152.64314	1.80938	0.2020626	0.30412617	2.1899466	21	3 19.3	19.3
71927 2000 WQ_{59}	15.7	X	222.30332	355.93806	107.13891	3.11062	0.1532176	0.27067327	2.3668594	21	8 18.3	19.1
71928 2000 WB_{61}	15.2	X	254.13273	330.23095	221.91700	4.94906	0.1000603	0.28609989	2.2809946	21	—	—
71929 2000 WD_{61}	15.5	X	266.22229	17.28692	105.10894	8.76137	0.1362707	0.27760840	2.3272747	21	11 16.3	18.1
71930 2000 WM_{61}	15.4	X	209.11910	228.47467	239.09276	2.89312	0.1581996	0.26793029	2.3829861	21	8 7.8	19.0
71931 2000 WN_{61}	16.0	X	7.56220	336.27561	96.16097	5.15874	0.1647397	0.28617680	2.2805859	21	—	—
71932 2000 WO_{61}	16.1	X	265.23923	195.00203	247.34346	4.24868	0.1961344	0.27315048	2.3525277	21	9 1.9	19.2
71933 2000 WW_{61}	15.9	X	282.10222	180.76977	261.47180	1.20284	0.2052897	0.27485197	2.3428086	21	9 28.7	18.2
71934 2000 WA_{63}	15.5	X	279.05484	6.67208	320.42228	2.18604	0.1889578	0.26606466	2.3941127	21	4 13.8	19.0
71935 2000 WF_{63}	15.8	X	152.83681	340.79361	51.65768	22.54832	0.0831962	0.35523614	1.9745037	21	2 27.7	18.7
71936 2000 WW_{67}	14.3	X	249.89063	120.42484	38.46104	13.65999	0.0953524	0.23208340	2.6224467	21	12 3.5	17.8
71937 2000 WT_{70}	15.8	X	264.64781	207.19809	319.97359	5.93390	0.1212400	0.28798972	2.2710048	21	—	—
71938 2000 WO_{73}	15.6	X	196.94016	159.07678	19.10513	6.20985	0.1291489	0.28006329	2.3136550	21	10 30.6	19.0
71939 2000 WZ_{74}	16.1	X	104.18141	63.50975	6.41182	2.77048	0.1005940	0.30207538	2.1998471	21	2 10.7	18.3
71940 2000 WC_{78}	16.1	X	198.52328	165.41341	352.89773	3.34331	0.0947143	0.27705112	2.3303945	21	10 9.2	19.3
71941 2000 WS_{80}	15.9	X	250.72540	177.53817	35.25635	4.69639	0.0671968	0.29167362	2.2518422	21	—	—
71942 2000 WU_{82}	16.3	X	342.97683	20.86104	19.82705	3.21633	0.1251930	0.28195953	2.3032701	21	12 6.5	18.4
71943 2000 WQ_{85}	16.4	X	160.29170	5.52083	39.27968	2.66897	0.1461601	0.30580138	2.1819414	21	3 27.5	19.2
71944 2000 WB_{87}	16.1	X	334.49845	53.50563	61.84653	7.91787	0.0879410	0.28843741	2.2686543	21	—	—
71945 2000 WG_{87}	15.1	X	319.02834	180.52333	283.07131	12.09456	0.0955467	0.23499499	2.6007402	21	—	—
71946 2000 WS_{87}	16.0	X	326.02947	25.24699	63.30020	7.03753	0.0724242	0.28154575	2.3055262	21	—	—
71947 2000 WW_{87}	15.2	X	247.41046	33.30292	58.59187	6.40422	0.0862849	0.27096418	2.3651651	21	9 14.5	18.2
71948 2000 WR_{88}	15.5	X	285.78532	83.85439	37.71411	5.17757	0.0887395	0.27867716	2.3213206	21	12 21.2	18.0
71949 2000 WT_{91}	16.2	X	186.00269	222.20199	12.55397	1.73782	0.0584716	0.28562127	2.2835421	21	—	—
71950 2000 WN_{98}	15.1	X	329.57718	356.35277	87.03816	7.15793	0.0802634	0.28295889	2.2978437	21	—	—
71951 2000 WY_{99}	15.5	X	278.20047	79.00942	69.03944	4.10758	0.0815926	0.28444291	2.2898444	21	—	—
71952 2000 WW_{100}	15.1	X	339.35405	270.95941	88.80986	5.30851	0.1432805	0.27446839	2.3449909	21	9 29.5	17.1
71953 2000 WC_{101}	15.4	X	248.73969	189.80936	269.93535	9.15714	0.1673743	0.27295287	2.3536630	21	9 5.9	18.7
71954 2000 WW_{104}	16.1	X	145.19809	160.10028	103.46222	7.98592	0.0968198	0.28019733	2.3129170	21	12 27.3	19.4
71955 2000 WD_{107}	16.5	X	105.29891	79.95147	215.00240	0.98239	0.0463350	0.28445673	2.2897702	21	12 23.1	19.3
71956 2000 WH_{107}	15.4	X	204.81665	319.35593	226.58627	12.62789	0.1289543	0.23165237	2.6256987	21	11 12.6	19.1
71957 2000 WO_{109}	15.8	X	260.48001	25.14145	45.35040	7.31249	0.0681622	0.27393498	2.3480340	21	9 6.0	18.7
71958 2000 WR_{110}	16.4	X	43.69406	79.94528	291.62480	3.94683	0.1541422	0.28716477	2.2753521	21	—	—
71959 2000 WP_{112}	16.3	X	40.23152	303.02669	11.06682	3.96105	0.1468954	0.27930708	2.3178291	21	11 8.1	19.0
71960 2000 WV_{114}	15.7	X	345.29903	38.92530	31.78742	5.40066	0.0975378	0.28483648	2.2877346	21	—	—
71961 2000 WO_{115}	16.6	X	340.08175	100.85105	358.30989	2.54973	0.0754621	0.28718929	2.2752226	21	—	—
71962 2000 WF_{116}	15.2	X	76.26073	144.02888	24.07250	2.62119	0.1450858	0.25882835	2.4385303	21	6 2.6	18.1
71963 2000 WJ_{116}	14.8	X	163.02107	214.10809	22.20146	3.64625	0.1086136	0.28107175	2.3081175	21	12 10.6	18.2
71964 2000 WC_{117}	15.6	X	80.84101	308.76121	53.77096	7.54097	0.1402950	0.28913577	2.2649998	21	—	—
71965 2000 WE_{118}	15.5	X	97.39760	82.42151	47.83482	6.56115	0.1103143	0.25678366	2.4514580	21	5 5.5	18.6
71966 2000 WP_{118}	14.7	X	266.77453	237.94153	72.52727	15.40796	0.2120291	0.25792578	2.4442158	21	3 19.2	18.8
71967 2000 WA_{120}	15.8	X	296.38274	12.96738	52.53390	5.01199	0.1299393	0.27637758	2.3341791	21	10 14.7	17.9
71968 2000 WE_{120}	16.1	X	263.51439	185.16852	289.20209	6.17244	0.1205795	0.27825615	2.3236616	21	10 28.2	18.9
71969 2000 WE_{123}	15.7	X	94.21038	84.38027	70.53704	3.87699	0.1120636	0.25890540	2.4380464	21	6 4.8	18.8
71970 2000 WM_{123}	16.0	X	351.67353	192.73706	132.15328	1.05889	0.1137302	0.27244311	2.3565980	21	8 25.5	17.9
71971 Lindaketcham	15.6	X	130.35887	132.11085	11.12162	7.21518	0.1705580	0.26218286	2.4176858	21	7 11.3	19.4
71972 2000 WQ_{126}	15.7	X	274.53857	305.69756	233.46415	6.94855	0.1337523	0.28877518	2.2668849	21	—	—
71973 2000 WZ_{127}	16.4	X	135.02460	219.95167	74.27430	6.18809	0.1540598	0.29089280	2.2558700	21	—	—
71974 2000 WB_{131}	15.6	X	303.42968	343.60288	233.62768	6.04426	0.0881025	0.29934275	2.2132147	21	—	—
71975 2000 WG_{133}	15.2	X	160.74714	164.41028	10.50833	13.52572	0.1062293	0.27564690	2.3383022	21	9 21.7	18.6
71976 2000 WD_{136}	16.3	X	164.73174	25.78869	268.48500	4.87202	0.1534299	0.29487793	2.2354993	21	—	—
71977 2000 WS_{137}	15.5	X	213.22345	107.90832	323.37351	3.98547	0.1698311	0.26540783	2.3980610	21	6 25.4	19.1
71978 2000 WJ_{143}	16.4	X	316.84516	262.68091	156.80822	8.02387	0.1254262	0.28055252	2.3109645	21	11 16.9	18.6
71979 2000 WN_{143}	15.0	X	64.40105	241.23689	298.58231	13.10477	0.1376100	0.25617966	2.4553097	21	5 29.7	18.0
71980 2000 WU_{152}	16.2	X	231.73743	332.25323	358.79555	6.91065	0.2277419	0.31020581	2.1612388	21	2 28.9	19.6
71981 2000 WB_{153}	16.4	X	73.00456	144.68724	251.74435	5.60491	0.0120050	0.29224331	2.2489148	21	—	—
71982 2000 WY_{155}	15.6	X	312.29224	239.66854	299.00804	7.22213	0.0433381	0.29543266	2.2327000	21	—	—
71983 2000 WG_{157}	15.4	X	130.77464	100.60331	33.87997	6.51851	0.0746576	0.26089007	2.4256661	21	6 18.5	18.7
71984 2000 WM_{157}	15.5	X	142.63078	355.45940	1.13985	7.10361	0.2056613	0.29526619	2.2335392	21	1 12.3	18.4
71985 2000 WY_{158}	16.2	X	307.04284	303.75529	136.41370	7.12718	0.1994327	0.27830301	2.3234007	21	11 23.5	17.9
71986 2000 WL_{159}	15.6	X	52.65642	341.93774	43.29503	7.30055	0.1175984	0.28756674	2.2732312	21	—	—
71987 2000 WU_{160}	15.6	X	256.81878	330.44618	165.87976	7.31006	0.0446490	0.28282120	2.2985895	21	12 5.0	18.4
71988 2000 WQ_{163}	15.2	X	223.56979	180.19408	60.10457	7.41741	0.1545347	0.29252631	2.2474641	21	—	—
71989 2000 WF_{167}	16.0	X	119.59281	311.11232	86.04263	6.11197	0.0641726	0.30068212	2.2066374	21	1 11.9	18.4
71990 2000 WG_{167}	15.8	X	236.48661	60.98479	103.33575	5.09785	0.0989806	0.28349965	2.2949208	21	12 5.7	18.4
71991 2000 WR_{168}	15.5	X	66.94195	245.31732	229.69212	4.77234	0.1283753	0.29751775	2.2222562	21	2 14.6	17.6
71992 2000 WF_{169}	15.5	X	292.50021	250.91603	174.14877	4.70369	0.1366233	0.27440633	2.3453445	21	10 4.5	17.6
71993 2000 WG_{173}	15.9	X	222.95119	300.92190	104.65810	3.25292	0.2049079	0.26346450	2.4098387	21	5 30.3	19.7
71994 2000 WU_{176}	15.1	X	32.67447	142.49124	85.11497	7.17729	0.1814570	0.26517803	2.3994462	21	6 19.9	17.0
71995 2000 WW_{177}	16.2	X	151.44339	240.70103	272.37832	1.57238	0.1376876	0.26780499	2.3837293	21	8 11.2	19.8
71996 2000 WB_{178}	15.3	X	138.68749	20.38206	244.37118	6.12289	0.0958430	0.28501429	2.2867830	21	12 22.6	18.4
71997 2000 WD_{178}	15.9	X	42.18868	263.95004	82.56536	7.23244	0.2995928	0.28396768	2.2923985	21	—	—
71998 2000 WS_{179}	14.9	X	3.52287	299.46754	222.31823	11.64150	0.1436687	0.24397136	2.5365503	21	1 8.3	17.9
71999 2000 WC_{185}	16.1	X	186.02802	239.61772	67.31280	6.41095	0.1844366	0.29812671	2.2192290	21	—	—
72000 2000 WJ_{186}	15.9	X	317.61149	230.14873	182.68252	3.50671	0.1132495	0.27753075	2.3277088	21	11 5.9	17.9