Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44001 Jonquet	13.7	X	87.49576	114.87582	309.71840	4.74932	0.1593917	0.18236374	3.0797140	21	2 11.8	17.7
44002 1997 ST_1	14.9	X	224.10207	305.57407	20.77346	0.61106	0.1433301	0.18877027	3.0096338	21	3 2.9	19.7
44003 1997 SZ_2	13.8	X	34.10858	133.50950	322.52148	1.24730	0.1522308	0.17818413	3.1276876	21	—	—
44004 1997 SS_3	14.9	X	52.16253	331.02808	47.56303	5.96836	0.1987828	0.25567119	2.4585640	21	—	—
44005 Migliardi	13.8	X	240.59754	2.27941	309.07548	9.97326	0.0867516	0.19072312	2.9890545	21	2 28.4	18.4
44006 1997 TF_{17}	14.7	X	147.19751	184.84304	143.63474	6.35355	0.2608805	0.26266369	2.4147343	21	—	—
44007 1997 TA_{25}	13.8	X	174.16396	150.53204	189.59070	1.47758	0.1317363	0.18377399	3.0639383	21	2 2.2	18.7
44008 1997 TN_{25}	15.2	X	127.30666	152.38267	172.52768	5.36091	0.2176587	0.30139694	2.2031471	21	—	—
44009 1997 TB_{26}	14.3	X	115.32030	218.68479	158.96713	5.92663	0.1680726	0.17987256	3.1080841	21	1 22.1	18.8
44010 1997 UH_{11}	15.0	X	244.98224	282.03458	51.00671	9.70907	0.3010909	0.27450759	2.3447677	21	3 17.7	19.3
44011 Juubichi	13.4	X	221.26051	123.83583	206.13417	8.64422	0.0739713	0.18415431	3.0597184	21	3 4.9	18.2
44012 1997 UL_{22}	15.4	X	143.39376	192.11555	114.75375	3.59955	0.1151045	0.29905282	2.2146450	21	—	—
44013 Iidetenmomdai	14.7	X	104.91700	190.24025	210.23505	8.08905	0.1175513	0.21972351	2.7198923	21	1 20.5	18.4
44014 1997 WT_1	14.4	X	100.42118	283.76216	38.41765	3.70269	0.1075799	0.20976723	2.8052891	21	—	—
44015 1997 WD_{10}	14.6	X	178.03268	7.88299	113.73129	3.18061	0.0525284	0.19418575	2.9534150	21	7 26.9	18.8
44016 Jimmypage	13.9	X	137.27887	89.51151	8.50630	11.28800	0.1574719	0.22907221	2.6453783	21	5 14.8	18.1
44017 1997 WV_{35}	13.6	X	32.99321	151.90811	286.48480	3.73785	0.1147858	0.17259883	3.1948035	21	—	—
44018 1997 WL_{36}	15.0	X	266.30770	118.23794	249.76104	4.57952	0.2056064	0.27708004	2.3302323	21	5 22.6	18.3
44019 1997 WO_{39}	14.6	X	114.20132	184.23138	197.79628	4.33185	0.1317745	0.21809888	2.7333826	21	1 13.2	18.3
44020 1997 WS_{39}	14.3	X	99.49793	255.97991	118.21937	3.85184	0.2047096	0.25807749	2.4432578	21	—	—
44021 1997 WU_{39}	14.3	X	212.38864	310.14599	78.52503	16.02866	0.1398541	0.23041870	2.6350624	21	5 7.6	18.6
44022 1997 WB_{43}	14.3	X	170.16970	1.23905	86.66581	7.04071	0.0979153	0.18864968	3.0109162	21	6 6.3	18.8
44023 1997 WO_{46}	14.4	X	160.60064	185.98345	245.82888	2.65999	0.0754815	0.22826605	2.6516030	21	5 2.6	18.3
44024 1997 WP_{47}	14.7	X	310.76158	25.18169	284.92990	4.36500	0.3021041	0.23567012	2.5957710	21	4 15.2	18.2
44025 1997 XY_{11}	14.4	X	108.06896	258.41655	106.38154	6.49767	0.0901448	0.21461275	2.7629034	21	—	—
44026 1997 YD_{11}	12.9	X	331.22776	90.28778	348.78183	17.02263	0.1052123	0.16171992	3.3365198	21	12 3.3	17.4
44027 Termain	14.8	X	180.70786	51.66689	350.67356	12.20688	0.2551779	0.23134176	2.6280484	21	4 18.0	19.5
44028 1998 BD_1	13.5	X	59.41096	253.86358	314.00342	11.94296	0.1237547	0.22397984	2.6853245	21	7 3.1	16.9
44029 1998 BK_4	15.8	X	291.18935	74.96892	110.35782	3.81778	0.2135336	0.29046930	2.2580621	21	—	—
44030 1998 BQ_{11}	15.6	X	321.25763	288.40376	323.03854	4.39221	0.0868546	0.30413002	2.1899281	21	3 5.9	18.1
44031 1998 CO	15.7	X	303.71106	34.40700	147.19552	7.34974	0.0964003	0.29232244	2.2485089	21	—	—
44032 1998 CD_3	16.0	X	222.01751	33.46898	154.19887	3.81158	0.0981804	0.28247822	2.3004497	21	12 17.5	18.9
44033 Michez	15.7	X	30.50857	186.25708	46.67378	1.95404	0.1299300	0.30669914	2.1776814	21	6 16.0	17.1
44034 1998 DB	15.7	X	316.09800	139.22753	100.93041	2.09130	0.1663235	0.29912633	2.2142821	21	1 31.6	18.4
44035 1998 DM_6	15.5	X	260.07874	54.36326	128.17847	8.24059	0.0657542	0.28656440	2.2785290	21	—	—
44036 1998 DO_7	16.2	X	310.94570	263.47952	43.13673	1.94889	0.2338026	0.30550322	2.1833609	21	4 16.7	18.3
44037 1998 DD_{18}	15.8	X	188.90167	166.18804	141.31607	6.21541	0.1905974	0.28889035	2.2662824	21	—	—
44038 1998 DQ_{27}	15.6	X	264.84352	292.82352	15.72532	4.88425	0.1798558	0.29854234	2.2171688	21	3 5.7	18.9
44039 de Sahagún	15.6	X	185.87501	177.15263	41.43157	2.33210	0.0712574	0.28073275	2.3099753	21	12 16.5	18.6
44040 1998 DA_{35}	15.2	X	130.43043	143.57367	123.73950	4.41341	0.0836776	0.23696722	2.5862899	21	12 9.5	19.1
44041 1998 ER_1	15.8	X	245.08162	90.19577	175.39073	1.27750	0.0652915	0.29037153	2.2585690	21	—	—
44042 1998 ES_9	15.9	X	247.00378	110.16891	170.62359	6.27716	0.2056814	0.29246913	2.2477570	21	1 11.1	19.6
44043 1998 EW_{12}	15.2	X	282.93872	290.99420	3.32114	5.57412	0.1744134	0.29896015	2.2151026	21	3 5.9	18.3
44044 1998 EE_{13}	16.0	X	193.67514	20.92499	135.75322	5.56038	0.1612867	0.27494877	2.3422587	21	9 29.4	19.6
44045 1998 EA_{14}	15.6	X	131.47830	316.37031	96.42023	2.52734	0.1568661	0.29904496	2.2146838	21	3 7.4	18.2
44046 1998 FS_1	16.2	X	298.73182	138.88600	145.31305	4.24275	0.1178954	0.29922828	2.2137792	21	3 18.9	18.7
44047 1998 FL_2	16.1	X	116.24760	174.89107	174.26118	22.67497	0.0781929	0.37168230	1.9158204	21	—	—
44048 1998 FF_4	15.2	X	262.87312	30.81757	122.18518	7.13087	0.0589974	0.27876929	2.3208092	21	—	—
44049 1998 FG_4	15.2	X	59.85223	230.16075	114.99022	8.08658	0.1831412	0.27421537	2.3464332	21	—	—
44050 1998 FU_{11}	15.4	X	349.14667	56.79956	165.69772	1.80247	0.0839383	0.29954459	2.2122204	21	3 9.8	17.4
44051 1998 FP_{13}	15.0	X	273.14380	144.67055	106.01144	6.13146	0.1685532	0.29354989	2.2422366	21	—	—
44052 1998 FA_{16}	15.2	X	132.42534	117.38025	157.09997	5.33637	0.1459487	0.27452241	2.3446832	21	12 26.5	18.9
44053 1998 FU_{20}	15.1	X	200.26532	103.86678	143.77031	5.11892	0.1042288	0.28541457	2.2846444	21	—	—
44054 1998 FR_{26}	15.9	X	188.36039	355.01421	111.48417	3.12481	0.0523428	0.31125573	2.1563759	21	7 21.6	18.5
44055 1998 FC_{30}	13.8	X	336.32464	102.13806	341.49795	14.48885	0.0618772	0.24126101	2.5555122	21	—	—
44056 1998 FW_{36}	15.9	X	320.04872	230.27632	27.65186	2.39595	0.1022064	0.29947508	2.2125627	21	3 13.8	18.3
44057 1998 FW_{39}	15.8	X	36.44140	85.65518	215.29927	4.74302	0.0866121	0.31392808	2.1441209	21	10 10.3	18.0
44058 1998 FA_{40}	16.1	X	350.19446	268.88529	326.60365	3.27045	0.0969063	0.30087866	2.2056764	21	3 27.8	18.0
44059 1998 FP_{40}	15.3	X	263.29881	336.16277	317.60997	4.08689	0.1738493	0.29617848	2.2289503	21	2 12.3	18.7
44060 1998 FU_{42}	14.7	X	203.28221	173.12134	204.06838	3.75625	0.1746839	0.30184293	2.2009763	21	4 3.4	18.1
44061 1998 FJ_{43}	15.4	X	331.40861	281.26509	191.69859	4.53004	0.0411826	0.28545231	2.2844431	21	—	—
44062 1998 FK_{46}	15.4	X	350.12363	196.27922	13.51279	2.49077	0.1203438	0.29777075	2.2209973	21	2 16.3	17.4
44063 1998 FW_{50}	15.3	X	210.23374	250.53521	11.99502	5.99580	0.1502539	0.28607583	2.2811225	21	—	—
44064 1998 FN_{53}	15.0	X	274.29401	183.83556	223.19579	3.05493	0.0856827	0.31315610	2.1476432	21	8 17.2	17.2
44065 1998 FU_{54}	15.5	X	335.04825	279.76272	181.31091	7.64170	0.0965328	0.28485035	2.2876604	21	—	—
44066 1998 FH_{55}	15.7	X	315.16269	51.46714	162.48067	5.41098	0.0778072	0.29407709	2.2395560	21	1 7.9	18.4
44067 1998 FZ_{55}	14.5	X	247.97667	245.70128	51.69052	4.30287	0.1584228	0.29438604	2.2379888	21	2 5.3	17.8
44068 1998 FX_{58}	14.9	X	357.64182	283.02576	174.77635	6.67890	0.0596901	0.28644266	2.2791745	21	—	—
44069 1998 FG_{61}	15.5	X	303.15356	77.46833	269.82897	1.30796	0.1186069	0.30772356	2.1728457	21	6 27.2	17.4
44070 1998 FP_{61}	15.1	X	188.37015	97.53011	198.83253	6.70759	0.1299067	0.28703635	2.2760307	21	—	—
44071 1998 FR_{65}	14.7	X	110.67451	214.18905	291.59312	2.61549	0.0583559	0.30458834	2.1877307	21	6 3.9	17.3
44072 1998 FS_{65}	15.3	X	246.33090	318.08314	253.54326	2.36412	0.1101310	0.28497266	2.2870057	21	—	—
44073 1998 FV_{65}	15.6	X	206.55005	58.54968	204.73694	5.92152	0.1367108	0.28506026	2.2865372	21	—	—
44074 1998 FB_{66}	15.3	X	68.52750	284.65074	352.34703	2.50909	0.0725346	0.22869277	2.6483035	21	10 8.6	18.8
44075 1998 FB_{67}	15.4	X	134.22241	44.65755	55.41797	3.55704	0.0762736	0.30264153	2.1971027	21	5 3.8	18.1
44076 1998 FT_{69}	15.7	X	344.73089	3.50209	154.76262	2.87737	0.0983398	0.29135776	2.2534694	21	—	—
44077 1998 FW_{69}	15.4	X	229.02117	186.97854	45.87279	4.86743	0.1267004	0.28480943	2.2878795	21	—	—
44078 1998 FB_{70}	16.1	X	233.12413	101.56146	150.05751	4.47303	0.1289292	0.28697119	2.2763752	21	—	—
44079 1998 FK_{71}	16.2	X	173.35820	356.33661	246.12995	1.37574	0.1182350	0.27903990	2.3193085	21	12 28.7	19.5
44080 1998 FQ_{71}	16.2	X	159.65888	71.53021	184.68121	2.61589	0.1406676	0.27848119	2.3224095	21	12 30.4	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44081 1998 FG_{75}	15.0	X	40.56975	128.86762	189.78274	6.05539	0.1337608	0.27151138	2.3619862	21	11 13.7	17.8
44082 1998 FH_{75}	14.9	X	267.04334	220.39408	165.22092	2.10224	0.1284068	0.30791655	2.1719377	21	6 27.8	17.3
44083 1998 FZ_{77}	15.3	X	205.35606	180.78439	126.32647	5.93342	0.0973144	0.29017401	2.2595938	21	1 4.8	18.5
44084 1998 FX_{78}	15.1	X	178.70710	175.77655	148.63911	6.77428	0.1451897	0.28827678	2.2694969	21	1 2.6	18.4
44085 1998 FG_{80}	15.6	X	215.39081	131.74230	83.19989	3.70358	0.1336805	0.28241387	2.3007991	21	—	—
44086 1998 FV_{83}	15.4	X	19.25295	57.37416	125.94029	3.80447	0.0833545	0.29983075	2.2108126	21	3 4.0	17.4
44087 1998 FG_{99}	15.1	X	206.59796	343.00137	255.36446	5.88811	0.1100762	0.28382242	2.2931806	21	—	—
44088 1998 FW_{101}	15.8	X	226.09707	278.62060	330.35131	6.38906	0.1317816	0.28674585	2.2775677	21	—	—
44089 1998 FZ_{101}	15.6	X	11.00908	343.70803	255.32974	3.32903	0.0473568	0.30372100	2.1918938	21	5 14.6	17.8
44090 1998 FT_{105}	16.1	X	307.28943	3.24038	244.25721	3.87937	0.0608748	0.29668181	2.2264286	21	2 13.3	18.9
44091 1998 FB_{106}	15.3	X	229.30878	86.70336	248.16624	5.48994	0.1721505	0.29684728	2.2256011	21	3 2.1	18.9
44092 1998 FJ_{106}	15.7	X	227.53098	15.86418	245.20212	4.33204	0.1481490	0.28747122	2.2737348	21	—	—
44093 1998 FF_{109}	15.6	X	169.26452	35.83560	228.06352	6.34072	0.1134482	0.28133653	2.3066691	21	—	—
44094 1998 FV_{109}	15.2	X	278.43573	334.35007	294.76716	5.38312	0.1430106	0.29418375	2.2390146	21	1 29.4	18.3
44095 1998 FS_{113}	14.8	X	199.13644	55.73055	253.40349	5.72188	0.2043721	0.28853281	2.2681542	21	1 6.7	18.3
44096 1998 FJ_{114}	15.0	X	146.63037	22.03166	260.25545	5.81920	0.1038246	0.28019115	2.3129510	21	—	—
44097 1998 FK_{115}	14.3	X	84.56828	123.90671	247.78002	5.93404	0.1478235	0.28334686	2.2957457	21	—	—
44098 1998 FB_{117}	14.9	X	195.65542	162.34569	295.29957	3.41113	0.0513672	0.30872830	2.1681289	21	7 18.2	17.4
44099 1998 FT_{117}	15.7	X	349.38420	210.56974	304.55981	2.87131	0.1208431	0.29078937	2.2564049	21	—	—
44100 1998 FX_{117}	14.8	X	48.10723	355.42646	273.67238	3.78334	0.1246393	0.26648842	2.3915740	21	9 10.1	17.6
44101 1998 FT_{121}	14.9	X	245.60505	76.29321	185.21024	5.02897	0.1477891	0.28961040	2.2625244	21	—	—
44102 1998 FY_{129}	16.6	X	94.29391	73.79659	105.04135	1.58893	0.0735665	0.30747688	2.1740077	21	7 2.7	19.0
44103 Aldana	15.0	X	194.32848	137.87740	93.53411	7.11418	0.0885517	0.28296309	2.2978210	21	—	—
44104 1998 GO_{1}	14.4	X	239.94448	73.36732	146.47984	8.77143	0.1431213	0.28295321	2.2978745	21	—	—
44105 1998 GG_{11}	15.9	X	185.44833	247.29976	1.24411	5.71980	0.1533264	0.28087886	2.3091741	21	—	—
44106 1998 HT_{3}	16.3	X	154.47805	219.95831	102.25846	4.20359	0.1470287	0.28472490	2.2883322	21	—	—
44107 1998 HH_{4}	15.1	X	305.35158	276.46642	75.16282	7.57295	0.1288453	0.26208304	2.4182996	21	7 6.7	17.7
44108 1998 HT_{4}	14.5	X	248.89135	225.24283	47.74472	5.89208	0.0606208	0.29053949	2.2576985	21	1 9.6	17.5
44109 1998 HO_{5}	15.3	X	66.41487	278.67591	162.54107	5.19897	0.1215871	0.28921500	2.2645861	21	—	—
44110 1998 HT_{5}	15.4	X	35.13887	141.76390	123.02951	2.85707	0.2095605	0.26358052	2.4091315	21	8 30.4	17.7
44111 1998 HN_{6}	16.1	X	133.56360	150.36946	99.92435	3.21297	0.1833986	0.27302817	2.3532302	21	11 28.5	19.9
44112 1998 HS_{13}	15.1	X	153.73196	321.18405	298.10464	3.85829	0.1100393	0.27891602	2.3199952	21	12 30.2	18.5
44113 1998 HH_{14}	15.4	X	102.69242	37.22581	117.07299	5.11719	0.0760795	0.30299225	2.1954069	21	6 8.9	17.9
44114 1998 HN_{21}	16.2	X	311.57242	121.75302	201.31322	4.84683	0.0537032	0.30583833	2.1817657	21	6 14.4	18.6
44115 1998 HQ_{23}	15.2	X	24.48736	60.79174	229.78129	22.29181	0.1116069	0.26372861	2.4082296	21	8 22.7	18.5
44116 1998 HK_{26}	16.1	X	185.64306	232.13854	140.76103	3.54830	0.1340184	0.29335541	2.2432275	21	3 12.6	19.3
44117 Haroldlarson	14.8	X	150.02212	95.40876	124.71292	3.87823	0.0728852	0.27234625	2.3571567	21	11 7.4	18.1
44118 1998 HB_{29}	14.1	X	169.45621	139.51309	168.35771	24.20882	0.1441099	0.28337241	2.2956077	21	—	—
44119 1998 HN_{32}	15.2	X	115.00767	103.85622	195.15303	6.20418	0.1254109	0.27831556	2.3233308	21	—	—
44120 1998 HU_{32}	15.1	X	144.58489	253.85343	39.97608	2.54600	0.1606415	0.28051739	2.3111574	21	—	—
44121 1998 HL_{34}	15.5	X	214.17080	257.56948	52.81972	4.08629	0.1558401	0.29078557	2.2564245	21	1 21.1	18.9
44122 1998 HT_{34}	15.6	X	131.84828	143.48827	157.17241	5.57260	0.1696337	0.27986814	2.3147304	21	—	—
44123 1998 HC_{36}	15.6	X	319.51595	241.90732	114.13952	2.30472	0.1273170	0.30976124	2.1633062	21	8 12.5	17.3
44124 1998 HM_{37}	16.1	X	157.03540	337.60096	257.89886	2.74299	0.1542256	0.27621960	2.3350690	21	12 1.3	19.8
44125 1998 HE_{38}	14.4	X	170.70662	52.94505	234.50418	3.66231	0.1550564	0.28251189	2.3002669	21	—	—
44126 1998 HR_{38}	14.7	X	92.61238	143.14926	209.58056	6.29378	0.1336298	0.28219029	2.3020142	21	—	—
44127 1998 HO_{43}	14.6	X	92.03279	117.46671	180.56725	6.60494	0.1239792	0.27518857	2.3408978	21	12 16.2	18.0
44128 1998 HU_{50}	15.7	X	182.85676	20.70073	251.01846	3.13093	0.1836954	0.28207902	2.3026196	21	—	—
44129 1998 HX_{50}	15.2	X	254.10101	5.53018	306.28019	3.74660	0.1894655	0.29450832	2.2373693	21	2 24.9	18.8
44130 1998 HU_{51}	14.1	X	69.72633	248.86470	59.05029	5.18453	0.2092782	0.27157197	2.3616349	21	12 12.8	17.5
44131 1998 HG_{53}	14.5	X	66.95448	69.10802	229.17847	2.44561	0.2020487	0.27098409	2.3650492	21	11 27.4	17.8
44132 1998 HL_{79}	15.5	X	123.24360	231.69872	243.20580	4.84411	0.0251656	0.30073971	2.2063557	21	5 1.5	18.0
44133 1998 HL_{80}	15.8	X	176.10025	58.92720	219.88164	4.10531	0.1368974	0.28185741	2.3038264	21	—	—
44134 1998 HB_{87}	15.5	X	154.17262	17.25834	278.21490	2.19609	0.2293135	0.27959390	2.3162437	21	—	—
44135 1998 HD_{88}	15.2	X	341.16782	296.83989	236.82864	5.77132	0.1017583	0.29115447	2.2545182	21	—	—
44136 1998 HW_{89}	15.7	X	95.52080	196.45654	267.77062	3.73995	0.0397504	0.29617293	2.2289781	21	3 7.5	18.1
44137 1998 HD_{92}	15.6	X	262.76167	127.26629	116.86099	2.24821	0.1406397	0.24597460	2.5227597	21	—	—
44138 1998 HG_{92}	15.7	X	147.50293	25.05633	193.71144	6.71456	0.1439746	0.27281788	2.3544393	21	11 2.3	19.2
44139 1998 HZ_{92}	15.5	X	195.74844	328.71545	342.93501	1.29421	0.0397359	0.28867032	2.2674338	21	—	—
44140 1998 HK_{94}	15.1	X	339.96885	103.60252	247.01330	1.72041	0.1778188	0.26623520	2.3930902	21	9 9.1	16.9
44141 1998 HL_{96}	15.4	X	305.21714	102.48689	79.70141	5.11587	0.0984269	0.28753108	2.2734192	21	—	—
44142 1998 HU_{96}	15.5	X	143.23374	127.10023	184.96280	3.62898	0.2516925	0.27948100	2.3168675	21	—	—
44143 1998 HF_{98}	15.7	X	164.04016	299.38542	347.02539	4.02637	0.1345743	0.28050478	2.3112267	21	—	—
44144 1998 HG_{98}	15.1	X	312.70587	270.28797	263.59648	4.62682	0.0974467	0.28732386	2.2745121	21	—	—
44145 1998 HJ_{101}	15.8	X	57.20503	138.41410	182.37801	3.23499	0.2404248	0.27046858	2.3680535	21	12 19.9	19.3
44146 1998 HZ_{101}	16.0	X	196.66924	23.31758	230.15706	5.89937	0.0871749	0.28093566	2.3088629	21	—	—
44147 1998 HB_{103}	14.7	X	250.32679	133.28619	45.73344	7.19358	0.0439113	0.27926603	2.3180563	21	—	—
44148 1998 HC_{106}	14.8	X	299.21837	108.78974	129.25106	6.82508	0.1399924	0.29290949	2.2455036	21	1 12.7	17.8
44149 1998 HS_{106}	14.8	X	90.06828	145.93336	106.79729	8.64560	0.1510117	0.26976075	2.3721941	21	10 22.9	18.3
44150 1998 HC_{108}	14.3	X	280.85300	221.25014	92.54563	7.28321	0.1008838	0.29921028	2.2138679	21	4 11.5	17.1
44151 1998 HX_{110}	15.1	X	140.62810	246.70419	121.74305	5.58470	0.1686100	0.28892081	2.2661231	21	1 20.0	17.9
44152 1998 HN_{121}	15.4	X	91.80776	135.70124	173.56615	7.38489	0.1186815	0.27477132	2.3432670	21	12 29.0	18.9
44153 1998 HQ_{121}	15.7	X	163.33869	108.34923	162.15560	7.17554	0.0929325	0.27938769	2.3173833	21	—	—
44154 1998 HZ_{122}	15.0	X	63.27256	19.26791	175.14959	9.34200	0.1049984	0.21737864	2.7394169	21	6 16.2	18.6
44155 1998 HD_{123}	15.1	X	101.69056	8.99651	139.42831	4.84235	0.0934688	0.30221148	2.1991866	21	6 2.1	17.7
44156 1998 HN_{123}	14.8	X	115.05251	203.17614	109.24430	8.94906	0.1393522	0.27749269	2.3279216	21	—	—
44157 1998 HO_{123}	15.2	X	10.43895	180.60817	152.95112	9.70302	0.2658089	0.26587374	2.3952586	21	11 9.7	17.5
44158 1998 HN_{128}	15.4	X	117.83874	145.78620	136.91820	6.35691	0.0950001	0.27848503	2.3223882	21	12 22.6	18.7
44159 1998 HV_{130}	15.7	X	180.99506	86.82259	144.78791	2.49091	0.1327509	0.23714956	2.5849640	21	12 14.9	19.6
44160 1998 HQ_{134}	14.8	X	46.21319	113.42965	115.56018	4.80346	0.1173948	0.30561245	2.1828406	21	7 9.9	16.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44161 1998 HT_{139}	16.1	X	144.46879	154.06324	105.85985	6.87134	0.1877446	0.27657552	2.3330653	21	12 19.6	19.9
44162 1998 HC_{148}	15.3	X	175.10048	175.65374	48.95459	7.81344	0.0619279	0.27532230	2.3401398	21	12 10.8	18.6
44163 1998 HH_{148}	16.1	X	156.73672	243.54352	5.02250	0.95368	0.1709138	0.27528975	2.3403242	21	12 16.5	19.7
44164 1998 JS	14.5	X	204.60943	45.10775	266.58786	4.57990	0.1596285	0.28820894	2.2698531	21	1 12.9	18.0
44165 1998 JR_{1}	14.9	X	278.38464	233.99187	214.09357	11.50197	0.0871691	0.27282863	2.3543775	21	10 20.4	17.6
44166 1998 JF_{2}	14.4	X	241.50546	289.09901	103.86389	4.72449	0.1301034	0.30239710	2.1982866	21	6 6.1	17.2
44167 1998 JA_{3}	14.5	X	210.40928	51.17668	95.85602	8.20841	0.0676428	0.27127747	2.3633438	21	10 15.8	17.7
44168 1998 JJ_{4}	15.1	X	326.84519	117.13321	223.00855	9.85408	0.3271066	0.25962746	2.4335240	21	6 24.3	17.1
44169 1998 KK_{2}	14.2	X	292.54335	255.18417	80.25228	14.73903	0.2791283	0.25551829	2.4595447	21	5 5.4	17.8
44170 1998 KK_{7}	14.7	X	27.19296	297.78978	206.34235	6.68897	0.1136039	0.29232734	2.2484838	21	1 14.4	17.0
44171 1998 KR_{8}	14.7	X	34.62989	97.27405	130.22657	7.32868	0.1476480	0.25901239	2.4373750	21	6 20.2	17.1
44172 1998 KN_{9}	13.8	X	238.76510	32.36196	227.38644	16.16899	0.0721472	0.23938973	2.5688123	21	—	—
44173 1998 KH_{13}	15.7	X	142.34470	219.43927	14.52056	4.42977	0.1494150	0.27323265	2.3520560	21	11 14.5	19.3
44174 1998 KL_{22}	15.5	X	5.65352	43.19254	139.28678	2.23513	0.1408708	0.29449782	2.2374224	21	1 30.2	17.4
44175 1998 KA_{29}	14.6	X	139.92281	318.47176	101.96792	5.51584	0.1793616	0.29462652	2.2367708	21	4 2.1	17.7
44176 1998 KT_{30}	15.4	X	314.83977	149.21307	47.09629	4.53495	0.0776633	0.24599116	2.5226464	21	—	—
44177 1998 KX_{31}	15.2	X	183.23288	1.75469	186.29292	2.47233	0.1529696	0.27315983	2.3524740	21	10 28.0	18.7
44178 1998 KY_{32}	15.2	X	100.94480	299.87103	296.76530	4.39711	0.1920876	0.26758455	2.3850383	21	10 10.4	19.0
44179 1998 KJ_{33}	15.4	X	122.77784	79.27668	251.71529	4.87693	0.1627860	0.27871579	2.3211061	21	—	—
44180 1998 KE_{37}	14.4	X	12.01711	42.07424	216.37504	3.57734	0.1190563	0.30140746	2.2030958	21	6 18.9	16.0
44181 1998 KA_{43}	14.4	X	72.78786	104.10058	125.25311	10.94649	0.0634926	0.17855941	3.1233037	21	8 8.6	18.7
44182 1998 KL_{44}	14.8	X	20.33744	207.90146	74.01794	8.63240	0.1153353	0.26156950	2.4214638	21	8 16.9	17.4
44183 1998 KQ_{45}	14.7	X	264.20437	164.15966	66.05794	2.87805	0.1056897	0.28544850	2.2844634	21	—	—
44184 1998 KZ_{45}	15.5	X	84.88497	72.19930	169.66805	2.73242	0.1228868	0.26539562	2.3981345	21	9 24.6	18.5
44185 1998 KH_{54}	14.5	X	357.45953	118.90315	151.02312	9.25428	0.1740618	0.25760042	2.4462735	21	6 8.3	16.7
44186 1998 KX_{55}	15.0	X	72.26191	49.95901	203.96711	9.26108	0.1441347	0.26449185	2.4035944	21	9 26.3	18.1
44187 1998 KC_{56}	13.9	X	318.78406	274.70454	172.37787	12.31170	0.1303403	0.27399626	2.3476839	21	12 27.8	16.4
44188 1998 KJ_{58}	15.4	X	43.62263	212.90555	237.58047	4.96716	0.0701921	0.28626677	2.2801080	21	—	—
44189 1998 KW_{61}	15.8	X	29.95963	82.11514	248.15972	1.23817	0.2252486	0.26669668	2.3903288	21	11 27.1	18.5
44190 1998 KD_{63}	15.1	X	157.66285	227.71542	324.63335	3.82510	0.1547710	0.27057401	2.3674382	21	10 6.6	18.8
44191 1998 LF_{2}	15.2	X	140.73920	105.19501	157.60276	7.10081	0.1444916	0.27321045	2.3521834	21	12 20.1	19.0
44192 Paulguttman	14.7	X	246.45219	104.26400	136.95442	14.01569	0.1811000	0.24386713	2.5372730	21	—	—
44193 1998 MW_{2}	15.7	X	74.08972	53.73246	211.69180	6.35397	0.0993252	0.26689312	2.3891558	21	10 8.7	18.8
44194 1998 MQ_{7}	15.2	X	211.31609	89.27727	222.90662	14.20988	0.1466842	0.24340691	2.5404703	21	1 22.3	19.6
44195 1998 MW_{7}	15.4	X	256.90321	126.90360	153.04113	9.08243	0.2550158	0.24288175	2.5441310	21	1 22.6	19.9
44196 1998 ML_{9}	15.3	X	163.63677	174.72133	156.02255	7.07416	0.1327855	0.28249726	2.3003463	21	—	—
44197 1998 MX_{15}	13.6	X	335.15348	13.13328	116.43657	14.50587	0.1206415	0.23398956	2.6081850	21	—	—
44198 1998 MP_{24}	15.1	X	203.66495	76.22577	300.30051	2.18848	0.1739151	0.24711537	2.5149897	21	4 6.6	19.1
44199 1998 MU_{24}	14.4	X	217.73049	121.54290	171.58085	17.39812	0.3180474	0.24100496	2.5573219	21	1 9.8	19.5
44200 1998 MJ_{25}	15.0	X	0.79758	122.63917	211.16307	2.06448	0.3206856	0.26074196	2.4265846	21	10 23.4	16.1
44201 1998 MS_{28}	14.3	X	325.51607	82.78884	263.80930	10.75461	0.2463834	0.21476082	2.7616333	21	7 15.8	16.9
44202 1998 MJ_{32}	14.9	X	104.09839	348.47093	289.10189	11.54292	0.1727255	0.26854761	2.3793328	21	12 3.9	18.7
44203 1998 MN_{34}	14.9	X	39.16798	116.41296	267.59644	7.26084	0.2465753	0.26927631	2.3750383	21	—	—
44204 1998 MJ_{35}	14.4	X	231.70787	19.52989	287.18147	10.71592	0.1641788	0.24293578	2.5437537	21	2 4.5	18.7
44205 1998 MY_{45}	15.1	X	22.89684	65.22820	242.07945	3.91810	0.1965258	0.26124788	2.4234507	21	10 6.1	17.4
44206 1998 OM	14.3	X	180.55140	37.70221	242.32562	13.41742	0.1592116	0.23360944	2.6110135	21	—	—
44207 1998 OJ_{1}	14.7	X	164.58977	92.22773	243.41997	12.05482	0.1920493	0.23626484	2.5914131	21	1 13.4	19.0
44208 1998 OY_{6}	14.1	X	277.16087	243.11191	305.21389	11.66048	0.0906463	0.23220717	2.6215147	21	—	—
44209 1998 OH_{7}	14.1	X	25.26128	44.63718	282.98781	7.91251	0.1810819	0.21817483	2.7327482	21	10 27.2	17.4
44210 1998 OX_{10}	15.6	X	207.13562	307.86954	307.91848	2.80926	0.2115954	0.23455036	2.6040260	21	—	—
44211 1998 OC_{12}	15.5	X	238.21339	276.36220	35.96635	3.41181	0.1777435	0.24417122	2.5351660	21	2 20.4	19.6
44212 1998 OJ_{12}	15.4	X	182.50325	289.50884	16.29724	3.72085	0.1393325	0.23578447	2.5949316	21	—	—
44213 1998 OZ_{13}	14.4	X	193.30129	141.75484	140.62097	13.26211	0.1701966	0.23450676	2.6043487	21	—	—
44214 1998 OC_{14}	14.1	X	330.51586	285.33907	141.87223	12.50845	0.1391512	0.22176513	2.7031732	21	12 7.9	17.2
44215 1998 OX_{14}	13.5	X	221.70296	313.40445	326.51585	12.48779	0.1385633	0.23727776	2.5840328	21	—	—
44216 Olivercabasa	14.6	X	335.84577	203.15501	278.17939	13.93892	0.1956600	0.22934795	2.6432575	21	—	—
44217 Whittle	13.1	X	49.36975	147.37100	275.17778	13.65557	0.0631824	0.23784057	2.5799547	21	—	—
44218 1998 QO_{1}	14.5	X	163.18003	137.22581	142.08813	8.65014	0.1531954	0.23034578	2.6356185	21	—	—
44219 1998 QB_{3}	14.5	X	72.26456	132.81081	147.10885	31.30742	0.0909647	0.21926835	2.7236550	21	10 27.4	18.9
44220 1998 QT_{7}	15.3	X	348.02878	34.53163	313.35122	4.19386	0.2224109	0.25946325	2.4345506	21	9 24.1	16.9
44221 1998 QK_{8}	14.0	X	144.03623	181.89592	142.77695	14.55737	0.1491006	0.23327429	2.6135138	21	—	—
44222 1998 QG_{9}	14.0	X	47.39456	312.85899	291.01843	7.94625	0.0999253	0.21337874	2.7735455	21	7 28.6	17.4
44223 1998 QH_{10}	14.4	X	203.08375	66.94427	294.94435	7.76343	0.0586143	0.24425598	2.5345794	21	3 15.7	18.2
44224 1998 QP_{10}	14.8	X	34.20199	64.32113	303.02827	9.70273	0.2840686	0.26570703	2.3962604	21	—	—
44225 1998 QY_{10}	15.1	X	241.70879	271.07447	60.05187	2.72177	0.1309250	0.24554005	2.5257352	21	3 20.8	18.9
44226 1998 QZ_{11}	14.2	X	137.83021	106.96202	296.49124	10.77361	0.1865731	0.23921533	2.5700607	21	3 7.6	18.2
44227 1998 QP_{14}	14.3	X	88.89999	246.44129	292.88684	13.64979	0.1086559	0.25321675	2.4744258	21	7 2.6	17.5
44228 1998 QT_{16}	14.8	X	187.62531	35.01593	341.45979	3.26359	0.2029233	0.24217985	2.5490442	21	3 25.0	19.1
44229 1998 QH_{22}	14.8	X	37.39466	47.84298	301.88670	9.13684	0.0406289	0.22189063	2.7021538	21	11 24.2	18.5
44230 1998 QS_{22}	13.7	X	126.48901	248.65912	65.22732	4.45155	0.1060751	0.22930330	2.6436006	21	—	—
44231 1998 QE_{25}	15.3	X	219.50479	201.51193	147.96777	12.04097	0.1758460	0.24324929	2.5415676	21	3 22.4	19.5
44232 1998 QJ_{28}	13.4	X	128.69320	312.76435	264.94434	33.55144	0.1780187	0.21470443	2.7621169	21	9 24.5	18.6
44233 1998 QM_{28}	14.6	X	140.08599	262.93905	64.57525	0.29176	0.0799627	0.22873040	2.6480130	21	—	—
44234 1998 QE_{29}	13.7	X	65.87538	96.46010	292.17358	11.73495	0.1883084	0.22210766	2.7003933	21	—	—
44235 1998 QL_{31}	14.8	X	357.91476	227.95139	31.38054	4.56315	0.0959526	0.25107558	2.4884737	21	5 24.9	17.5
44236 1998 QA_{33}	15.3	X	166.68794	153.15673	212.36427	2.79564	0.1262402	0.23834918	2.5762833	21	2 16.4	19.1
44237 1998 QC_{33}	14.6	X	78.07518	69.01387	320.50255	14.37326	0.1238001	0.23006925	2.6377299	21	—	—
44238 1998 QV_{33}	15.2	X	352.56389	136.55064	199.68092	1.90448	0.2082379	0.25781699	2.4449033	21	9 16.9	16.8
44239 1998 QR_{34}	15.5	X	196.70475	303.74057	21.84174	5.68563	0.1739787	0.23849090	2.5752625	21	2 1.9	19.7
44240 1998 QB_{35}	14.0	X	106.17029	163.21062	317.16639	13.07436	0.1184872	0.24419815	2.5349796	21	4 29.6	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44241 1998 QU_{36}	14.2	X	66.58897	62.51474	184.43080	9.06404	0.1053539	0.21368531	2.7708920	21	8 29.6	18.0
44242 1998 QB_{37}	14.9	X	227.15176	75.65820	248.43405	4.98641	0.1374586	0.24132789	2.5550400	21	2 22.5	19.1
44243 1998 QN_{37}	14.9	X	300.15366	312.10455	313.71845	6.92963	0.1315291	0.24451693	2.5327758	21	2 27.1	18.3
44244 1998 QP_{38}	14.3	X	38.91643	253.64944	174.71517	7.79014	0.2802877	0.22740644	2.6582809	21	—	—
44245 1998 QG_{40}	14.9	X	214.39068	119.85303	176.99259	8.17510	0.2355755	0.23805761	2.5783864	21	1 11.7	19.5
44246 1998 QQ_{40}	14.2	X	195.41151	158.49475	175.89013	14.70590	0.0979433	0.23824572	2.5770290	21	2 4.4	18.3
44247 1998 QR_{40}	14.5	X	38.72604	112.89304	245.35171	4.05305	0.1336168	0.22179468	2.7029331	21	12 21.9	18.1
44248 1998 QT_{41}	15.1	X	164.30706	325.41807	355.49431	4.19900	0.1581951	0.23365151	2.6107001	21	—	—
44249 1998 QH_{42}	13.9	X	123.93632	53.52394	337.71196	13.87524	0.1278199	0.23519412	2.5992721	21	2 5.8	17.4
44250 1998 QT_{42}	14.9	X	179.27994	88.51250	247.74292	4.25230	0.1491009	0.23642685	2.5902292	21	1 25.9	19.1
44251 1998 QZ_{43}	14.0	X	227.41059	275.22124	102.36517	3.44529	0.0781133	0.20389700	2.8588772	21	5 10.3	18.2
44252 1998 QF_{44}	14.8	X	127.02065	42.33021	0.74927	3.56831	0.1545020	0.23668990	2.5883096	21	2 25.8	18.2
44253 1998 QO_{44}	14.5	X	277.33411	305.99541	21.28326	1.97806	0.0779413	0.20441672	2.8540293	21	5 3.3	18.5
44254 1998 QM_{45}	15.2	X	163.71434	154.06943	200.32647	7.32010	0.1220625	0.23611524	2.5925076	21	1 29.6	19.1
44255 1998 QV_{45}	14.4	X	11.04485	248.64827	187.08132	8.61065	0.3171875	0.22396592	2.6854357	21	—	—
44256 1998 QJ_{46}	15.0	X	180.09175	359.51538	343.95017	7.48264	0.1975195	0.23726713	2.5841100	21	2 9.7	19.2
44257 1998 QQ_{47}	14.1	X	136.57618	281.96902	158.47923	22.51252	0.0857766	0.24248739	2.5468886	21	4 21.4	18.0
44258 1998 QT_{47}	13.8	X	49.42838	268.61395	161.03008	12.91616	0.1711153	0.22963327	2.6410676	21	—	—
44259 1998 QW_{48}	13.7	X	144.58923	81.26778	164.03306	12.42869	0.1417037	0.22295372	2.6935574	21	11 27.4	18.2
44260 1998 QO_{49}	14.6	X	133.87952	239.58179	148.59819	15.78451	0.1255349	0.23608108	2.5927577	21	2 9.9	18.2
44261 1998 QR_{50}	14.2	X	42.59532	346.81830	40.73444	2.77072	0.1346937	0.18142304	3.0903506	21	—	—
44262 1998 QR_{51}	13.7	X	271.42124	123.38478	337.88891	22.79103	0.2770790	0.25767751	2.4457856	21	9 17.7	16.9
44263 Nansouty	14.2	X	311.73079	76.17998	334.82116	8.35404	0.1413476	0.21622796	2.7491271	21	10 4.1	17.3
44264 1998 QH_{54}	14.1	X	315.78998	42.09940	198.95824	13.94312	0.1520521	0.24123291	2.5557107	21	2 10.2	17.8
44265 1998 QN_{54}	14.6	X	99.72955	159.45547	196.18036	10.25758	0.1510420	0.22756959	2.6570102	21	—	—
44266 1998 QV_{55}	15.0	X	147.01561	68.67520	348.86730	3.23455	0.2720434	0.23900332	2.5715803	21	4 14.3	19.4
44267 1998 QZ_{55}	14.2	X	329.19832	72.99824	298.50935	2.70335	0.1317494	0.21368794	2.7708693	21	9 12.6	17.4
44268 1998 QX_{60}	15.1	X	84.22932	184.76597	244.08894	3.57436	0.2762677	0.23407816	2.6075268	21	2 18.8	17.9
44269 1998 QY_{60}	14.5	X	350.83591	313.29944	164.55612	14.52623	0.0378368	0.23196349	2.6233503	21	—	—
44270 1998 QV_{66}	14.6	X	296.30545	63.64876	179.62597	11.65837	0.2395610	0.24421887	2.5348362	21	1 12.5	18.7
44271 1998 QY_{67}	14.1	X	197.77067	49.31409	218.51066	8.22058	0.0626039	0.23228941	2.6208959	21	—	—
44272 1998 QB_{70}	15.2	X	88.08336	120.10070	278.21414	10.75207	0.0601699	0.23262068	2.6184071	21	—	—
44273 1998 QH_{70}	14.3	X	219.32886	43.16295	224.40853	13.20365	0.1772700	0.23562062	2.5961345	21	—	—
44274 1998 QU_{70}	15.3	X	102.31617	196.76075	230.42585	10.29909	0.1430540	0.23653677	2.5894266	21	2 18.6	18.8
44275 1998 QP_{71}	14.5	X	320.41527	298.15281	305.35634	12.35193	0.1332149	0.24425336	2.5345976	21	2 21.9	17.9
44276 1998 QZ_{71}	14.5	X	6.33155	245.19245	191.59966	21.69038	0.0468912	0.22736617	2.6585948	21	—	—
44277 1998 QY_{72}	14.6	X	205.96608	303.06218	312.36607	12.85082	0.0796566	0.23114509	2.6295389	21	—	—
44278 1998 QU_{74}	14.9	X	317.71466	161.41308	280.51774	12.05084	0.1734810	0.26281183	2.4138268	21	12 14.9	16.8
44279 1998 QH_{75}	14.8	X	239.18512	30.55541	210.13179	12.28023	0.1288793	0.23330025	2.6133199	21	—	—
44280 1998 QE_{77}	14.4	X	69.67961	119.04887	218.25449	9.69950	0.2486734	0.22328613	2.6908834	21	—	—
44281 1998 QX_{77}	13.7	X	152.25872	42.12535	323.68800	13.61688	0.1478070	0.23502320	2.6005322	21	2 6.5	17.4
44282 1998 QB_{78}	14.8	X	27.26901	123.28090	303.34778	10.40945	0.2595225	0.22471973	2.6794269	21	—	—
44283 1998 QP_{78}	14.0	X	73.15383	218.09173	183.13706	14.93321	0.0923719	0.23316097	2.6143605	21	—	—
44284 1998 QX_{78}	13.9	X	148.56477	121.41605	213.05201	13.65938	0.1469730	0.23439030	2.6052113	21	—	—
44285 1998 QD_{80}	14.5	X	40.79949	67.82137	254.28886	14.00896	0.1555301	0.22033752	2.7148369	21	11 10.1	18.1
44286 1998 QK_{83}	13.9	X	180.04708	324.82004	213.31115	11.49511	0.0941433	0.21874220	2.7280207	21	10 7.7	18.1
44287 1998 QO_{85}	13.9	X	116.44248	331.71618	302.53260	12.58034	0.1550903	0.22330202	2.6907558	21	12 3.7	18.4
44288 1998 QP_{85}	14.3	X	135.80146	160.82922	212.42841	10.37320	0.1080612	0.19162298	2.9796894	21	1 27.5	18.8
44289 1998 QU_{86}	14.4	X	274.90346	29.69379	222.04010	12.12556	0.1555294	0.23931222	2.5693670	21	1 10.2	18.6
44290 1998 QA_{87}	14.1	X	267.62843	183.40403	263.66073	11.53741	0.1332550	0.21408892	2.7674084	21	9 12.1	18.2
44291 1998 QL_{87}	14.2	X	52.84614	78.65485	220.07644	10.73948	0.1731091	0.21787815	2.7352284	21	10 30.4	17.9
44292 1998 QO_{87}	14.0	X	114.69255	121.57226	264.70912	10.39295	0.1125542	0.18964377	3.0003850	21	1 20.8	18.3
44293 1998 QQ_{87}	14.4	X	94.92588	137.84806	248.92513	13.21469	0.1120452	0.23048124	2.6345857	21	—	—
44294 1998 QE_{89}	14.5	X	81.57354	66.57987	261.99048	10.10795	0.2005172	0.22369990	2.6875642	21	—	—
44295 1998 QU_{89}	12.9	X	10.40494	273.78469	220.92297	9.85066	0.0482882	0.19021111	2.9944159	21	1 7.8	17.0
44296 1998 QM_{90}	14.1	X	339.79564	172.35316	266.14865	13.04797	0.0315043	0.26618940	2.3933647	21	—	—
44297 1998 QF_{93}	14.7	X	134.67881	177.32836	198.41866	13.46430	0.1972886	0.23115582	2.6294575	21	2 2.1	18.8
44298 1998 QD_{94}	13.6	X	175.56291	202.69348	136.52643	16.23343	0.1496519	0.23705640	2.5856412	21	1 26.8	17.5
44299 1998 QX_{94}	14.6	X	134.87301	26.02712	299.64262	13.53894	0.1318328	0.23062924	2.6334584	21	—	—
44300 1998 QC_{95}	13.5	X	234.15312	256.78685	303.87013	12.81065	0.2242631	0.22952774	2.6418770	21	12 21.0	17.4
44301 1998 QM_{96}	14.2	X	118.81522	307.46487	309.20903	11.57142	0.1268976	0.22088892	2.7103170	21	11 10.1	18.7
44302 1998 QQ_{99}	14.6	X	113.63749	132.57288	121.30930	3.57506	0.0346068	0.21833937	2.7313751	21	10 30.4	18.5
44303 1998 QA_{101}	15.9	X	141.57010	264.90468	132.08568	3.93315	0.2108271	0.23686619	2.5870252	21	3 12.5	19.8
44304 1998 QD_{102}	13.7	X	112.76272	348.78265	155.42343	12.82179	0.1388000	0.20371920	2.8605403	21	6 19.9	18.1
44305 1998 QK_{102}	14.8	X	84.63252	231.66098	125.55012	5.70489	0.1193137	0.22673755	2.6635064	21	—	—
44306 1998 QC_{104}	15.2	X	230.14836	168.42985	145.11511	8.72813	0.1701647	0.23984117	2.5655879	21	2 14.1	19.5
44307 1998 QH_{105}	14.2	X	17.31007	56.60632	139.55880	13.68925	0.1132879	0.24336298	2.5407760	21	4 2.9	17.1
44308 1998 RG	14.4	X	260.19748	327.96497	125.90974	10.09830	0.1236614	0.21414251	2.7669467	21	9 23.1	18.3
44309 1998 RT	14.8	X	251.53281	61.37660	223.92992	12.98954	0.1426025	0.24248382	2.5469136	21	1 27.1	19.0
44310 1998 RU_{1}	14.3	X	236.90701	291.56615	318.04015	12.34196	0.1309224	0.23241257	2.6199699	21	—	—
44311 1998 RP_{6}	14.1	X	267.31052	348.98974	321.83315	11.86238	0.1368789	0.24511739	2.5286378	21	3 15.4	18.0
44312 1998 RC_{8}	14.5	X	112.04133	35.62725	3.60394	5.13625	0.2130093	0.23247186	2.6195245	21	2 12.8	18.0
44313 1998 RV_{12}	14.5	X	294.63366	207.12188	186.41254	5.88877	0.0271915	0.21098750	2.7944621	21	8 29.8	18.3
44314 1998 RV_{15}	14.6	X	61.20542	225.82689	178.88314	12.43196	0.1864329	0.22634653	2.6665730	21	—	—
44315 1998 RG_{16}	14.5	X	88.99257	97.03025	269.62340	13.75474	0.1711663	0.22580545	2.6708312	21	—	—
44316 1998 RN_{22}	14.8	X	133.18729	252.27896	173.00642	3.47452	0.1943076	0.23954481	2.5677035	21	4 5.9	18.7
44317 1998 RC_{23}	14.5	X	126.56212	177.36190	143.85695	13.93827	0.1804829	0.22951096	2.6420057	21	—	—
44318 1998 RK_{24}	14.8	X	199.12368	100.41581	138.94943	9.94086	0.1306932	0.22943506	2.6425884	21	—	—
44319 1998 RR_{29}	15.6	X	126.69865	245.19996	137.52948	4.25500	0.1318092	0.23452936	2.6041814	21	1 26.9	18.9
44320 1998 RJ_{31}	13.9	X	248.26332	198.47018	327.82191	12.25009	0.1139385	0.22393997	2.6856432	21	12 7.7	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44321 1998 RY_{42}	14.4	X	349.75358	284.15106	186.77986	21.60658	0.0334878	0.22832031	2.6511829	21	—	—
44322 1998 RZ_{42}	15.5	X	167.89663	77.41039	232.19012	3.82121	0.2197125	0.23265580	2.6181436	21	—	—
44323 1998 RT_{44}	13.8	X	216.10235	38.22057	157.04881	13.71136	0.1038594	0.22358441	2.6884896	21	12 9.6	17.9
44324 1998 RA_{45}	13.8	X	349.96085	293.85299	163.79255	12.36781	0.2436060	0.22426607	2.6830391	21	—	—
44325 1998 RU_{45}	14.7	X	256.68069	122.27534	323.24962	3.40592	0.0351601	0.21385707	2.7694082	21	9 15.9	18.4
44326 1998 RM_{47}	15.2	X	269.55576	34.95403	277.63677	3.69254	0.1657609	0.24466112	2.5317806	21	3 19.6	19.0
44327 1998 RC_{48}	15.3	X	194.15330	107.42719	217.28830	3.58321	0.2565370	0.23708860	2.5854071	21	1 29.6	19.8
44328 1998 RC_{55}	14.9	X	301.70732	146.59075	243.92791	5.50841	0.0323376	0.21192104	2.7862494	21	9 2.5	18.8
44329 1998 RN_{58}	13.8	X	57.29129	116.82757	274.85508	1.15843	0.1283704	0.22615152	2.6681057	21	—	—
44330 1998 RV_{58}	15.2	X	356.30556	101.32497	256.67903	0.90052	0.0947410	0.21548625	2.7554319	21	10 12.6	18.5
44331 1998 RW_{58}	14.1	X	216.45747	203.99434	351.76873	13.15561	0.1015139	0.22276350	2.6950906	21	12 6.7	18.2
44332 1998 RU_{60}	14.8	X	274.33477	221.69927	215.18961	9.75542	0.0859332	0.21322481	2.7748801	21	9 18.7	18.6
44333 1998 RB_{63}	15.0	X	32.73255	253.95783	155.46670	11.61317	0.1822923	0.22466505	2.6798616	21	—	—
44334 1998 RO_{63}	15.3	X	67.76845	252.46181	74.34553	3.74187	0.1209818	0.22149764	2.7053491	21	12 15.7	19.1
44335 1998 RU_{63}	14.3	X	236.12959	38.45067	162.78272	13.94910	0.1223924	0.22601477	2.6691819	21	—	—
44336 1998 RE_{64}	14.3	X	225.07097	70.74471	119.88493	3.23350	0.1301159	0.22315263	2.6919565	21	12 9.0	18.2
44337 1998 RE_{65}	15.1	X	23.09324	130.39420	266.18220	0.97267	0.0899348	0.22254692	2.6968388	21	—	—
44338 1998 RM_{65}	15.5	X	76.06622	226.58637	184.18822	1.91003	0.3105834	0.22871311	2.6481465	21	1 17.9	17.7
44339 1998 RV_{65}	15.3	X	2.32453	198.75948	204.31436	1.70457	0.0891067	0.22059067	2.7127595	21	12 21.9	18.7
44340 1998 RH_{66}	14.5	X	47.74814	244.75805	189.69272	15.36449	0.1548217	0.22847392	2.6499944	21	—	—
44341 1998 RX_{66}	15.0	X	266.69617	351.16514	339.65522	10.90853	0.1481229	0.24518360	2.5281826	21	4 8.2	18.8
44342 1998 RJ_{67}	14.1	X	163.71110	251.60310	207.30992	11.07880	0.0304117	0.20332321	2.8642532	21	6 9.9	18.3
44343 1998 RS_{67}	15.0	X	117.26677	98.36449	246.81667	2.54673	0.0991655	0.22824756	2.6517462	21	—	—
44344 1998 RN_{68}	15.0	X	30.49682	23.38018	348.44361	2.30694	0.1271374	0.22054985	2.7130942	21	12 27.2	18.5
44345 1998 RO_{73}	14.7	X	333.58337	145.03474	220.24645	5.06072	0.0569311	0.21261261	2.7802042	21	9 13.9	18.1
44346 1998 RC_{74}	13.8	X	30.11967	123.81332	234.14364	6.42911	0.0921966	0.21883036	2.7272880	21	12 3.6	17.2
44347 1998 RV_{74}	15.5	X	173.14450	30.98245	320.35640	1.56577	0.1873074	0.23567760	2.5957160	21	2 11.2	19.7
44348 1998 RZ_{76}	14.4	X	11.90201	265.36078	165.88113	13.28644	0.1446652	0.22409311	2.6844194	21	—	—
44349 1998 RN_{77}	13.4	X	239.53573	324.19054	177.11321	24.53052	0.1084599	0.17399196	3.1777271	21	10 24.3	18.3
44350 1998 RY_{78}	13.3	X	290.46685	356.02225	110.97179	6.31266	0.0791410	0.17613662	3.1518796	21	11 18.4	17.5
44351 1998 RA_{79}	15.4	X	164.11257	224.33551	150.78988	8.01661	0.1889408	0.23681505	2.5873977	21	3 4.4	19.5
44352 1998 RY_{79}	14.2	X	137.82492	164.10594	217.26964	10.67296	0.1227650	0.19051643	2.9912159	21	2 9.6	18.9
44353 1998 SB_{1}	14.6	X	43.80583	294.33500	30.68955	6.05849	0.0696693	0.17209284	3.2010628	21	10 29.6	19.0
44354 1998 SS_{2}	13.5	X	228.10725	57.50852	258.90242	12.35993	0.1797537	0.23820949	2.5772903	21	2 10.5	18.0
44355 1998 ST_{2}	15.0	X	212.98808	72.62448	295.24899	12.62748	0.0782769	0.24148254	2.5539491	21	3 31.6	19.1
44356 1998 SL_{7}	15.2	X	82.37087	269.04534	348.94349	1.18720	0.1521438	0.21648253	2.7469714	21	10 10.7	19.2
44357 1998 SS_{8}	14.6	X	20.21481	167.26840	16.69802	4.02616	0.1393440	0.19593978	2.9357628	21	3 25.5	17.9
44358 1998 SX_{8}	14.0	X	68.89086	171.17205	186.49162	13.39249	0.1759150	0.22355215	2.6887483	21	—	—
44359 1998 SM_{9}	14.5	X	352.47068	210.23873	198.68770	8.96751	0.1602232	0.21864147	2.7288585	21	12 21.0	17.6
44360 1998 SK_{10}	14.7	X	238.22979	212.35576	213.10466	5.90068	0.0874476	0.20428867	2.8552218	21	7 20.0	18.9
44361 1998 SG_{13}	15.0	X	132.01859	286.79190	75.97666	4.76134	0.1287515	0.23203820	2.6227872	21	1 8.9	18.5
44362 1998 SM_{14}	14.1	X	56.10086	157.41703	116.72322	9.67915	0.1040907	0.21571220	2.7535074	21	9 26.7	17.8
44363 1998 SS_{19}	14.8	X	51.04641	130.59074	272.20665	0.82235	0.1839261	0.22738722	2.6584307	21	—	—
44364 1998 SA_{22}	15.2	X	127.16670	116.25496	9.09112	7.09185	0.0680625	0.28750392	2.2735624	21	5 28.7	18.1
44365 1998 SO_{22}	15.1	X	192.09519	326.47247	350.98201	2.98480	0.1969795	0.23514665	2.5996219	21	1 19.5	19.3
44366 1998 SQ_{23}	14.3	X	9.00600	233.72505	125.37270	7.17086	0.0383184	0.21698068	2.7427654	21	11 1.6	18.0
44367 1998 SE_{25}	14.5	X	104.50260	218.86590	173.03786	13.09801	0.1817523	0.23020959	2.6366579	21	1 16.7	18.0
44368 1998 SR_{26}	14.5	X	315.01702	224.24277	206.72510	8.55796	0.1514705	0.21704731	2.7422041	21	11 10.9	17.4
44369 1998 SX_{32}	14.8	X	233.47042	235.77877	46.04417	0.93836	0.0812308	0.19289952	2.9665291	21	1 20.6	19.3
44370 1998 SK_{35}	14.7	X	106.39617	311.96422	4.19282	6.50612	0.1160859	0.22565097	2.6720500	21	—	—
44371 1998 SR_{37}	14.2	X	154.72524	133.71278	216.07890	5.37079	0.0823542	0.23158233	2.6262281	21	1 11.8	18.0
44372 1998 SZ_{37}	15.8	X	182.71989	100.00449	264.78893	0.56434	0.1459349	0.23988235	2.5652942	21	3 5.1	19.9
44373 1998 SU_{42}	14.5	X	221.06597	310.65706	188.29666	7.70076	0.1668952	0.21285094	2.7781285	21	9 26.0	18.7
44374 1998 SY_{42}	14.8	X	101.96753	245.88992	16.16951	7.19836	0.0872943	0.21657617	2.7461796	21	10 29.1	18.8
44375 1998 SG_{46}	14.8	X	116.66664	33.37270	12.35321	3.22036	0.2264048	0.23254178	2.6189993	21	2 27.7	18.3
44376 1998 SJ_{48}	15.0	X	247.33919	23.00907	354.65429	1.59238	0.1111880	0.20255738	2.8714681	21	5 28.3	19.2
44377 1998 SD_{54}	14.9	X	43.64130	2.54540	358.51604	3.67139	0.1173256	0.22164232	2.7041716	21	12 29.6	18.6
44378 1998 SC_{56}	15.0	X	72.85449	202.25647	207.44334	3.47135	0.1446178	0.22984977	2.6394088	21	—	—
44379 1998 SH_{56}	14.9	X	248.32398	296.67865	358.66998	4.11902	0.1554096	0.23999678	2.5644788	21	2 10.2	18.9
44380 1998 SS_{56}	15.6	X	196.96673	130.28897	163.96798	4.58026	0.1961537	0.23456447	2.6039215	21	—	—
44381 1998 SV_{56}	14.4	X	154.74802	224.35256	130.05966	1.32023	0.0714049	0.19114349	2.9846703	21	1 24.8	18.8
44382 1998 SA_{59}	14.3	X	338.12751	348.72059	27.07757	5.58657	0.1453599	0.21444234	2.7643670	21	10 7.6	17.1
44383 1998 SL_{60}	14.3	X	27.53841	134.33010	77.66791	3.13827	0.0123136	0.20148898	2.8816099	21	5 9.8	18.1
44384 1998 SJ_{61}	14.9	X	52.44989	141.71002	213.54633	10.55964	0.1128933	0.22124101	2.7074407	21	12 30.8	18.9
44385 1998 SR_{61}	14.0	X	242.26958	119.77231	336.76718	11.23663	0.0408858	0.21182114	2.7871254	21	9 10.1	17.9
44386 1998 SV_{61}	14.6	X	249.05668	257.04971	235.66546	6.11660	0.0263304	0.21769118	2.7367943	21	11 8.6	18.3
44387 1998 ST_{62}	14.6	X	217.55135	21.13548	183.56622	12.45142	0.0964907	0.22445183	2.6815586	21	12 21.9	18.7
44388 1998 SK_{63}	13.2	X	15.44074	38.19699	79.24593	3.88653	0.1136657	0.18636431	3.0354813	21	—	—
44389 1998 SO_{63}	14.1	X	166.16095	170.14362	190.08221	10.47140	0.0938492	0.19288023	2.9667269	21	2 12.1	18.8
44390 1998 ST_{63}	14.2	X	112.02899	201.95666	211.77382	3.18884	0.2094411	0.23441937	2.6049960	21	2 27.5	17.7
44391 1998 SH_{64}	15.1	X	118.04943	335.28264	67.62688	6.07653	0.1938085	0.23268567	2.6179195	21	2 23.2	18.8
44392 1998 SY_{65}	14.2	X	9.10421	225.87013	102.53224	4.69549	0.0924906	0.21190670	2.7863752	21	9 25.3	17.5
44393 1998 SJ_{66}	14.1	X	26.19355	264.13115	123.74693	6.09208	0.0521268	0.17684748	3.1434276	21	12 21.3	18.5
44394 1998 ST_{66}	14.5	X	28.53122	105.55916	180.37527	7.75597	0.2057929	0.21062634	2.7976557	21	9 10.1	17.6
44395 1998 SE_{68}	14.7	X	292.57092	284.74147	228.37652	10.99473	0.0401354	0.22778688	2.6553203	21	—	—
44396 1998 SF_{68}	14.8	X	296.03928	296.81000	216.60287	14.26301	0.0695560	0.22803885	2.6533640	21	—	—
44397 1998 SG_{71}	15.0	X	359.25062	312.03443	47.80379	5.16237	0.1149669	0.21459381	2.7630660	21	10 22.7	18.2
44398 1998 SD_{75}	15.0	X	313.07336	260.42081	176.15106	8.95504	0.1254134	0.21627205	2.7487534	21	11 17.9	18.2
44399 1998 SZ_{84}	15.0	X	359.33610	272.30077	107.06359	3.95184	0.0992431	0.21814847	2.7329684	21	11 17.8	18.2
44400 1998 ST_{97}	14.9	X	64.72828	138.08218	173.55763	5.09404	0.1104437	0.21896277	2.7261884	21	11 22.8	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44401 1998 SD_{106}	14.7	X	68.77249	241.30895	182.33714	13.10793	0.1467928	0.22961867	2.6411795	21	—	—
44402 1998 SX_{107}	14.3	X	296.02805	44.77805	352.65168	6.13800	0.0709257	0.21103380	2.7940534	21	9 2.5	17.9
44403 1998 SH_{111}	15.1	X	187.36026	145.70987	196.75575	12.40733	0.1856878	0.23645596	2.5900165	21	2 9.5	19.6
44404 1998 SB_{113}	14.6	X	353.31034	216.57128	127.81133	6.53256	0.0229044	0.21275543	2.7789599	21	9 19.2	18.3
44405 1998 SS_{123}	13.7	X	143.57106	179.87718	190.59720	8.43943	0.0860574	0.18979957	2.9987429	21	1 31.5	18.2
44406 1998 SU_{127}	14.3	X	116.15285	329.43647	173.86455	14.15042	0.1079610	0.20117940	2.8845653	21	6 18.6	18.8
44407 1998 SO_{132}	14.8	X	278.97830	192.92806	230.52980	6.99482	0.1562263	0.21009885	2.8023364	21	8 26.6	18.6
44408 1998 SK_{133}	15.3	X	351.31093	164.34694	213.90473	4.97415	0.1327472	0.21532436	2.7568128	21	11 3.9	18.1
44409 1998 SW_{134}	14.8	X	357.27504	200.48437	182.05593	7.70394	0.0782657	0.21667315	2.7453601	21	11 17.2	18.2
44410 1998 SQ_{137}	14.2	X	26.77467	218.31708	80.28524	5.49788	0.0465588	0.21044667	2.7992478	21	9 7.5	17.8
44411 1998 SX_{138}	14.8	X	81.31423	136.16159	207.17913	17.10680	0.1271923	0.22276309	2.6950939	21	—	—
44412 1998 SJ_{139}	15.6	X	143.33762	73.16914	311.19581	3.38467	0.2757869	0.23417882	2.6067795	21	3 3.0	19.9
44413 1998 SR_{139}	13.7	X	150.36879	312.94935	274.96079	6.13104	0.1324345	0.21632909	2.7482702	21	11 7.2	18.1
44414 1998 SC_{141}	14.7	X	97.21541	138.67786	200.03798	11.16384	0.1974781	0.22474006	2.6792653	21	—	—
44415 1998 SF_{143}	15.1	X	296.04705	214.11418	197.62690	5.74541	0.0586913	0.21191405	2.7863107	21	9 21.6	18.8
44416 1998 ST_{143}	15.1	X	316.53659	128.38461	243.04437	1.92265	0.1097527	0.21011658	2.8021787	21	8 22.9	18.5
44417 1998 SS_{146}	13.2	X	260.73990	76.06463	190.43047	9.64616	0.0202737	0.19036788	2.9927718	21	2 3.5	17.7
44418 1998 SY_{146}	15.0	X	354.00617	174.39162	175.19092	2.56962	0.0417296	0.21162019	2.7888895	21	9 25.3	18.4
44419 1998 SM_{151}	14.9	X	310.88697	35.20653	31.47065	5.55960	0.0153816	0.21808540	2.7334952	21	11 6.0	18.5
44420 1998 SC_{155}	15.0	X	282.15921	72.08249	350.70094	2.81827	0.0788705	0.21203337	2.7852653	21	9 14.6	18.4
44421 1998 SL_{156}	14.6	X	103.77807	44.51628	197.89415	7.76763	0.1651235	0.21469192	2.7622241	21	10 15.3	18.8
44422 1998 SD_{159}	13.9	X	304.13332	132.28629	322.70193	3.27725	0.0548396	0.21835817	2.7312184	21	11 30.8	17.4
44423 1998 SP_{162}	13.8	X	44.32083	58.88814	230.61035	11.56499	0.0650914	0.21106272	2.7937982	21	9 15.1	17.6
44424 1998 TL_{1}	14.6	X	95.15911	76.97722	209.60116	12.45153	0.0775596	0.21691675	2.7433043	21	11 22.1	18.6
44425 1998 TY_{1}	14.7	X	13.81137	289.02844	77.49250	7.15301	0.0733883	0.21815887	2.7328815	21	11 19.8	18.2
44426 1998 TJ_{4}	14.2	X	33.38840	113.01396	352.44433	1.16590	0.0272977	0.18639907	3.0351038	21	1 5.8	18.4
44427 1998 TC_{5}	13.7	X	55.74698	94.66681	231.05787	14.88816	0.2835464	0.17584817	3.1553254	21	12 13.4	18.5
44428 1998 TF_{5}	15.6	X	62.16756	235.54680	65.71585	5.60279	0.1657043	0.30239893	2.1982777	21	11 26.6	18.4
44429 1998 TU_{5}	15.6	X	271.60856	272.39164	50.61305	5.63062	0.1870370	0.28686009	2.2769630	21	4 1.8	18.8
44430 1998 TZ_{6}	14.8	X	109.25979	143.64542	183.74242	13.27489	0.1933901	0.22343405	2.6896957	21	—	—
44431 1998 TJ_{18}	14.5	X	253.41592	178.99172	92.19331	8.40970	0.2141164	0.23970194	2.5665812	21	1 13.2	18.8
44432 1998 TP_{19}	13.6	X	181.30246	346.34095	214.44654	16.23926	0.0756435	0.17297207	3.1902060	21	11 2.8	18.3
44433 1998 TL_{30}	15.1	X	16.52417	180.25200	214.62128	2.02343	0.1843080	0.21912768	2.7248204	21	—	—
44434 1998 UD_{4}	14.5	X	336.18496	219.93745	82.53336	7.24068	0.1780128	0.29206798	2.2498147	21	6 9.1	16.1
44435 1998 UB_{7}	14.6	X	146.26080	285.72389	76.44489	7.77333	0.2506140	0.27551991	2.3390207	21	2 1.9	18.1
44436 1998 UE_{7}	15.0	X	147.24562	142.90422	207.51497	13.59325	0.3149968	0.23147510	2.6270391	21	1 26.2	19.6
44437 1998 UN_{7}	15.8	X	322.24708	276.75338	50.14730	7.46862	0.2107622	0.29322931	2.2438706	21	6 13.1	17.7
44438 1998 UG_{8}	12.8	X	248.89682	254.24046	227.11722	21.13145	0.0526311	0.16884563	3.2419738	21	10 12.2	17.7
44439 1998 UR_{8}	15.3	X	80.00890	51.29128	324.46485	2.05217	0.1532040	0.22545862	2.6735696	21	—	—
44440 1998 UM_{15}	15.3	X	110.47598	235.23126	63.69526	6.08400	0.1689612	0.30702821	2.1761251	21	—	—
44441 1998 UO_{16}	14.9	X	334.24148	263.40445	139.16536	4.39953	0.1242784	0.21407359	2.7675405	21	11 7.9	18.0
44442 1998 UG_{17}	14.7	X	34.28038	68.12409	309.57729	4.39666	0.0800403	0.22003091	2.7173584	21	—	—
44443 1998 UY_{19}	12.2	X	222.16288	1.89329	233.23581	16.85998	0.1555271	0.17964288	3.1107328	21	—	—
44444 1998 UZ_{19}	14.8	X	31.92005	359.49622	15.96898	1.53360	0.1714242	0.21847107	2.7302773	21	—	—
44445 1998 UX_{20}	14.7	X	46.89977	176.34751	223.51579	12.71466	0.1754925	0.22250419	2.6971841	21	—	—
44446 1998 UJ_{21}	14.4	X	16.69966	102.29286	237.89638	7.39975	0.1414024	0.21577053	2.7530111	21	10 26.0	17.6
44447 1998 UM_{21}	14.7	X	181.43751	169.51362	213.88544	13.63414	0.1911032	0.23932554	2.5692716	21	3 26.4	19.1
44448 1998 UU_{22}	13.9	X	160.54165	157.70294	233.88747	9.66025	0.0938252	0.19195928	2.9762082	21	3 14.5	18.6
44449 1998 UK_{24}	14.4	X	112.53664	358.95644	307.89568	11.44476	0.1531195	0.22455999	2.6806974	21	—	—
44450 1998 UB_{25}	15.0	X	358.55659	225.87313	119.76246	5.23046	0.1082679	0.21183222	2.7870282	21	10 2.8	18.3
44451 1998 UT_{30}	14.3	X	184.01309	250.19138	90.46256	11.16134	0.0533550	0.18881078	3.0092033	21	2 10.9	18.9
44452 1998 UO_{32}	14.3	X	187.08858	114.38178	229.49111	10.37227	0.0969024	0.19095110	2.9866748	21	2 12.5	19.2
44453 1998 UL_{40}	15.3	X	125.81817	36.46695	298.41552	5.12771	0.1714851	0.22725406	2.6594691	21	—	—
44454 1998 UE_{43}	14.4	X	321.35514	126.33733	260.84460	4.56123	0.0481964	0.21162266	2.7888678	21	9 25.0	18.0
44455 Artdula	14.6	X	219.28989	93.56109	312.39595	12.09484	0.1858626	0.24486016	2.5304085	21	5 26.7	18.9
44456 1998 VP_{4}	14.1	X	45.18215	225.82645	232.56781	8.33565	0.0307273	0.18517747	3.0484375	21	1 10.9	18.3
44457 1998 VG_{7}	14.6	X	200.10566	62.83948	331.57857	3.42855	0.2821486	0.24215951	2.5491870	21	4 25.3	19.3
44458 1998 VJ_{8}	14.9	X	327.88498	266.24295	152.49096	2.21912	0.2056957	0.21557562	2.7546702	21	11 17.1	17.3
44459 1998 VW_{11}	13.7	X	257.72534	271.37466	196.83362	12.99120	0.1061245	0.21237132	2.7823097	21	10 6.8	17.4
44460 1998 VC_{15}	15.3	X	7.32342	84.36735	280.74870	0.64215	0.1769245	0.21548890	2.7554093	21	11 18.8	18.3
44461 1998 VH_{17}	14.1	X	81.66677	74.62163	209.69258	8.67340	0.1317990	0.21515282	2.7582779	21	11 9.9	18.2
44462 1998 VU_{17}	14.5	X	95.58844	137.89215	234.03477	8.30825	0.2058776	0.22658792	2.6646789	21	—	—
44463 1998 VT_{18}	13.5	X	305.92732	227.79456	251.22630	9.01718	0.1925109	0.17533744	3.1614497	21	12 13.2	16.9
44464 1998 VN_{21}	15.7	X	199.17677	54.95915	313.42469	2.71440	0.2595100	0.23917547	2.5703462	21	3 24.9	20.3
44465 1998 VR_{23}	14.8	X	346.67317	293.26150	58.72803	6.51686	0.0654294	0.21013815	2.8019870	21	9 21.3	18.3
44466 1998 VT_{23}	14.4	X	142.33369	221.72110	71.68401	3.14119	0.1210864	0.17926231	3.1151339	21	—	—
44467 1998 VU_{27}	14.5	X	312.48169	184.48579	215.21918	8.77689	0.1488865	0.21104206	2.7939805	21	9 18.6	17.8
44468 1998 VH_{34}	14.0	X	40.85486	47.91865	302.82446	6.98081	0.1436486	0.17398621	3.1777971	21	12 6.4	18.3
44469 1998 VP_{34}	15.2	X	288.74315	97.41604	221.33613	1.13530	0.0694738	0.19881474	2.9073924	21	5 8.9	19.1
44470 1998 VZ_{35}	14.8	X	168.15465	204.57772	186.87702	13.21061	0.2798546	0.23675586	2.5878289	21	4 1.1	19.3
44471 1998 VB_{37}	14.7	X	97.09898	177.78338	147.31128	4.45995	0.2276981	0.22351184	2.6890716	21	—	—
44472 1998 VH_{53}	14.3	X	137.39807	48.47741	259.86893	12.67754	0.1601806	0.22576903	2.6711184	21	—	—
44473 Randytatum	13.6	X	37.75157	264.73881	126.48129	22.62948	0.1224734	0.17752112	3.1354704	21	—	—
44474 1998 WE	13.8	X	286.62456	358.08836	118.32510	2.54214	0.1539435	0.17208627	3.2011442	21	11 13.4	17.8
44475 Hikarumasai	14.8	X	110.27909	244.86267	131.45855	5.89168	0.2999435	0.23023043	2.6364987	21	1 23.8	18.3
44476 1998 WN_{3}	13.5	X	244.28148	25.43003	265.20472	9.32702	0.0449807	0.18455379	3.0553015	21	2 11.0	18.1
44477 1998 WL_{5}	14.3	X	141.76674	70.61645	38.29308	2.29423	0.0641843	0.19717946	2.9234450	21	5 29.7	18.5
44478 1998 WK_{6}	14.3	X	42.37644	226.71209	191.12345	2.11785	0.2007483	0.22304069	2.6928571	21	—	—
44479 Oláheszter	14.6	X	299.91835	63.58523	276.53304	12.08528	0.0315175	0.20103609	2.8859360	21	6 26.9	18.3
44480 1998 WU_{9}	14.4	X	285.23123	0.49611	308.54239	12.57291	0.2626547	0.24397033	2.5365575	21	3 16.3	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44481 1998 WN_{10}	15.3	X	149.42909	194.03193	191.56689	2.93800	0.2200160	0.23374226	2.6100243	21	3 5.3	19.5
44482 1998 WQ_{14}	13.6	X	317.41848	302.92756	229.67392	8.14296	0.0686327	0.18209287	3.0827674	21	—	—
44483 1998 WL_{16}	13.9	X	11.83205	25.62162	68.78463	11.83337	0.1245494	0.17952832	3.1120560	21	—	—
44484 1998 WV_{17}	14.6	X	26.53256	32.69009	354.53914	2.23094	0.1945149	0.21838420	2.7310013	21	—	—
44485 1998 WZ_{17}	13.6	X	23.41919	205.58297	285.22757	4.97900	0.1235663	0.18413965	3.0598808	21	1 21.7	17.2
44486 1998 WZ_{19}	14.5	X	70.74623	104.52460	243.81918	8.64874	0.1183427	0.21878558	2.7276601	21	—	—
44487 1998 WC_{20}	14.1	X	325.99148	175.65541	256.57842	7.94925	0.1751832	0.21402026	2.7680003	21	12 1.5	16.9
44488 1998 WO_{20}	14.9	X	181.68625	149.11513	229.47548	14.13826	0.1202336	0.23647710	2.5898622	21	3 15.8	19.2
44489 1998 WK_{22}	14.2	X	58.51631	168.39030	270.00214	8.93496	0.0649425	0.18360557	3.0658117	21	1 7.4	18.1
44490 1998 WL_{23}	14.1	X	179.90774	200.16062	245.51171	0.83183	0.0323079	0.19959050	2.8998541	21	6 12.4	18.3
44491 1998 WU_{30}	13.8	X	70.86366	302.25714	119.80527	14.59188	0.0795531	0.18330658	3.0691446	21	1 6.5	17.7
44492 1998 WE_{31}	13.8	X	287.29249	304.93404	131.52060	19.86623	0.1046402	0.16922881	3.2370781	21	10 8.1	18.5
44493 1998 WT_{40}	14.1	X	51.97509	75.06046	302.74087	16.28189	0.1695048	0.22189005	2.7021586	21	—	—
44494 1998 WD_{41}	14.3	X	64.78602	107.99010	226.80545	11.71385	0.0138694	0.21625021	2.7489385	21	12 7.0	18.1
44495 1998 XL_{4}	14.7	X	37.92774	314.89833	77.09852	5.43071	0.2223890	0.22358840	2.6884577	21	—	—
44496 1998 XM_{5}	13.3	X	340.54469	3.42951	152.92247	13.93406	0.0945371	0.18137678	3.0908760	21	—	—
44497 1998 XJ_{11}	13.6	X	82.96559	313.04833	92.56620	12.07348	0.1179798	0.17991330	3.1076150	21	1 8.6	17.6
44498 1998 XL_{11}	14.3	X	76.41145	343.05749	66.52110	2.65904	0.1672463	0.18021387	3.1041586	21	1 10.6	18.0
44499 1998 XV_{16}	14.4	X	179.46253	258.06945	94.69785	7.57373	0.1001825	0.26997283	2.3709515	21	2 10.2	17.8
44500 1998 XT_{17}	13.8	X	29.30719	190.79207	207.33446	4.98232	0.1193955	0.17287229	3.1914334	21	—	—
44501 1998 XN_{21}	13.4	X	0.98793	296.47264	115.64379	2.74423	0.1980638	0.17050812	3.2208661	21	12 29.9	17.1
44502 1998 XQ_{27}	14.5	X	355.04645	355.39498	44.98860	9.69846	0.2724710	0.21574310	2.7532444	21	12 28.3	17.2
44503 1998 XR_{27}	13.9	X	178.40029	129.13047	271.46787	10.96835	0.1365928	0.23763915	2.5814124	21	4 9.7	18.2
44504 1998 XX_{34}	13.9	X	48.17538	184.84188	262.32184	10.94443	0.1638305	0.22511402	2.6762973	21	—	—
44505 1998 XT_{38}	14.0	X	104.66292	74.44919	313.07759	11.14947	0.2662548	0.22710936	2.6605986	21	1 27.3	17.2
44506 1998 XS_{39}	13.4	X	100.74498	63.91268	299.78548	12.12932	0.2297922	0.22377291	2.6869797	21	—	—
44507 1998 XM_{40}	13.6	X	27.08128	196.59768	276.33836	13.95632	0.2003275	0.18049146	3.1009751	21	1 4.2	16.9
44508 1998 XH_{45}	13.7	X	49.68135	46.85487	348.05877	4.15552	0.1430636	0.17566561	3.1575111	21	—	—
44509 1998 XJ_{46}	13.5	X	39.01973	128.91441	295.12437	14.18617	0.2117759	0.17820624	3.1274288	21	—	—
44510 1998 XB_{51}	13.3	X	75.65523	189.58954	309.28774	8.73786	0.0420122	0.18848065	3.0127160	21	4 8.6	17.5
44511 1998 XC_{51}	12.9	X	257.47889	252.99659	301.66634	11.78827	0.0370227	0.17341027	3.1848294	21	—	—
44512 1998 XM_{58}	14.1	X	47.04460	256.31281	100.99512	9.40745	0.3012283	0.21768100	2.7368796	21	—	—
44513 1998 XT_{62}	12.7	X	322.08938	196.19830	333.48635	17.37567	0.0768617	0.17848070	3.1242219	21	—	—
44514 1998 XE_{65}	14.3	X	67.65460	105.22036	318.95384	11.48734	0.1313356	0.22584838	2.6704927	21	—	—
44515 1998 XR_{74}	13.0	X	175.94068	330.67961	313.24690	10.71089	0.0450477	0.17530478	3.1618423	21	—	—
44516 1998 XE_{83}	14.0	X	90.70171	259.09598	191.59934	11.57867	0.1439054	0.18720984	3.0263345	21	3 16.7	18.2
44517 1998 XF_{83}	14.3	X	60.88832	287.42789	169.80505	10.16445	0.0923932	0.18436595	3.0573764	21	2 4.3	18.4
44518 1998 XQ_{86}	13.9	X	192.72492	283.27814	97.33824	11.27746	0.1210522	0.19198382	2.9759546	21	4 12.7	18.8
44519 1998 XY_{91}	13.6	X	22.61966	193.78075	256.66399	16.51734	0.1779985	0.17789004	3.1311339	21	—	—
44520 1998 XC_{92}	13.3	X	116.84575	167.87743	257.27357	9.85014	0.0389895	0.18566664	3.0430807	21	2 27.3	17.8
44521 1998 XZ_{93}	13.8	X	358.14664	180.12660	252.25943	8.24318	0.2421557	0.21679265	2.7443511	21	—	—
44522 1998 YP_{1}	15.0	X	171.90156	83.64915	122.63400	6.20428	0.0798196	0.29437097	2.2380652	21	11 17.7	18.0
44523 1998 YR_{3}	14.6	X	283.25381	62.96510	118.71183	10.44105	0.0177553	0.21795067	2.7346216	21	—	—
44524 1998 YZ_{3}	13.2	X	90.65591	191.77192	265.30365	10.54479	0.1077001	0.18519028	3.0482969	21	3 15.2	17.6
44525 1998 YE_{4}	12.9	X	343.73749	162.83992	267.04793	10.94707	0.0955996	0.16978913	3.2299524	21	12 16.1	16.9
44526 1998 YN_{4}	14.0	X	169.97897	89.04475	299.17550	13.62301	0.1371335	0.23509428	2.6000079	21	3 14.7	18.3
44527 1998 YC_{6}	13.5	X	142.69272	358.26996	251.36000	13.99153	0.1314407	0.21455510	2.7633983	21	11 27.1	17.9
44528 1998 YZ_{6}	13.8	X	350.79913	267.30768	97.67714	9.82358	0.1719602	0.21151229	2.7898379	21	10 22.2	16.8
44529 1998 YP_{7}	14.2	X	169.45232	297.09845	103.07027	11.40986	0.1247202	0.19265728	2.9690153	21	4 14.1	19.1
44530 Horáková	13.1	X	199.40372	89.02639	280.49907	11.67758	0.2262816	0.23777876	2.5804018	21	3 21.3	17.8
44531 1998 YR_{8}	13.6	X	320.70235	350.69667	141.68675	13.28580	0.0398867	0.17834170	3.1258451	21	—	—
44532 1998 YA_{9}	14.1	X	278.71608	53.51612	237.10108	9.66073	0.0610493	0.19284454	2.9670930	21	3 19.5	18.5
44533 1998 YN_{9}	14.0	X	140.56149	218.35051	340.80150	8.28805	0.1394393	0.24070205	2.5594670	21	9 25.7	18.0
44534 1998 YZ_{9}	15.5	X	59.60311	349.31746	127.08979	5.73350	0.0907830	0.27044176	2.3682100	21	2 10.1	17.8
44535 1998 YN_{15}	14.0	X	113.72400	275.17879	79.67782	1.83675	0.1278028	0.17576463	3.1563251	21	—	—
44536 1998 YY_{27}	14.9	X	340.56874	262.84605	135.81704	13.76430	0.2114077	0.21343122	2.7730908	21	11 20.3	17.8
44537 1999 AG	15.6	X	208.62535	326.26347	126.91392	4.26569	0.0894842	0.28615588	2.2806970	21	7 25.2	18.4
44538 1999 AO_{2}	13.0	X	153.45743	39.04383	340.71601	9.11114	0.1574548	0.18429918	3.0581148	21	3 2.9	17.8
44539 1999 AH_{4}	15.6	X	201.70885	247.91456	269.01532	5.69536	0.1074704	0.29245906	2.2478086	21	10 9.4	18.8
44540 1999 AH_{6}	14.0	X	67.63722	124.29846	262.52128	11.63651	0.1873929	0.22489883	2.6780042	21	—	—
44541 1999 AV_{6}	14.7	X	331.41293	33.19783	124.68895	7.36405	0.0731809	0.26359386	2.4090502	21	—	—
44542 1999 AD_{7}	14.2	X	22.23005	199.45921	248.72845	3.50520	0.1010467	0.17472888	3.1687861	21	—	—
44543 1999 AG_{23}	13.2	X	8.44019	172.42132	286.49638	16.52461	0.2271686	0.17967999	3.1103045	21	—	—
44544 1999 AO_{23}	13.3	X	216.49358	46.53257	299.69509	13.30440	0.1418129	0.23761493	2.5815878	21	3 7.8	17.6
44545 1999 AJ_{24}	14.1	X	165.39265	33.51406	302.22574	13.32370	0.1450220	0.17875633	3.1210095	21	1 22.1	19.0
44546 1999 BR	13.9	X	195.79261	88.54978	289.96374	9.81420	0.1293771	0.18943477	3.0025916	21	4 2.6	18.9
44547 1999 BC_{3}	13.5	X	193.83243	243.22808	180.14749	4.32731	0.0252513	0.15063296	3.4982919	21	6 3.1	18.6
44548 1999 BQ_{5}	13.7	X	210.01989	107.23544	279.12964	9.75594	0.0920325	0.19047188	2.9916823	21	4 28.7	18.4
44549 1999 BH_{13}	12.9	X	321.59429	313.09399	159.14586	4.48660	0.0836474	0.12409669	3.9807288	21	12 23.9	18.1
44550 1999 BL_{23}	13.0	X	62.57032	158.70038	247.28199	13.79027	0.0249266	0.17547325	3.1598183	21	—	—
44551 1999 BV_{27}	13.2	X	343.79527	24.36495	79.05081	11.55356	0.2083918	0.17688419	3.1429927	21	—	—
44552 1999 BL_{34}	13.3	X	50.45778	74.20014	309.25746	12.13696	0.0840998	0.17027039	3.2238634	21	—	—
44553 1999 CH_{5}	13.2	X	324.19178	101.20232	331.07049	8.26132	0.2019121	0.21084460	2.7957247	21	11 23.9	16.0
44554 1999 CQ_{9}	14.5	X	135.41668	74.82709	97.75400	8.26078	0.2019799	0.23748628	2.5825200	21	8 26.0	18.8
44555 1999 CF_{11}	15.7	X	228.04280	211.77435	155.50070	25.13172	0.0878439	0.36450211	1.9408979	21	4 18.6	18.6
44556 1999 CD_{23}	13.7	X	288.67652	319.28163	321.08527	12.24757	0.1524652	0.22765836	2.6563195	21	3 2.4	17.6
44557 1999 CZ_{23}	14.4	X	80.36631	288.73922	136.53843	8.70632	0.1802652	0.17980631	3.1088476	21	2 6.7	18.2
44558 1999 CF_{35}	13.4	X	114.11985	33.16696	359.84936	9.58052	0.1673571	0.17936124	3.1139883	21	2 11.7	17.9
44559 1999 CC_{38}	14.1	X	288.06991	71.92005	143.03164	7.50361	0.0556437	0.21898134	2.7260342	21	—	—
44560 1999 CM_{42}	14.1	X	132.98611	310.79273	350.50806	6.94451	0.0183435	0.21098279	2.7945037	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44561 1999 CF_{53}	13.1	X	35.65789	328.83989	113.67355	8.65703	0.2514037	0.17540540	3.1606330	21	—	—
44562 1999 CH_{57}	14.2	X	6.61602	9.21857	165.35453	1.44246	0.1321386	0.17820990	3.1273861	21	2 20.5	17.9
44563 1999 CX_{59}	13.5	X	71.74454	259.00409	181.45226	15.55041	0.2142830	0.18097730	3.0954228	21	2 14.7	17.5
44564 1999 CZ_{60}	14.8	X	90.23760	236.57080	193.11279	2.72115	0.0446448	0.22250448	2.6971818	21	1 28.6	18.2
44565 1999 CF_{84}	15.2	X	78.16605	145.42094	63.54533	8.22251	0.1451963	0.28140513	2.3062942	21	8 8.0	18.1
44566 1999 CK_{103}	12.2	X	337.05203	88.67778	287.11389	25.40649	0.2015456	0.16106771	3.3455208	21	9 6.6	16.5
44567 1999 CL_{111}	16.0	X	45.68738	20.29704	167.14525	2.29673	0.1499424	0.27358704	2.3500244	21	5 8.9	17.9
44568 1999 CR_{114}	14.0	X	349.60320	237.04347	295.22848	4.21883	0.0907206	0.17678536	3.1441640	21	1 26.3	17.9
44569 1999 CG_{133}	15.2	X	22.13109	173.56221	143.28781	7.76305	0.1483124	0.28730092	2.2746332	21	10 21.0	17.5
44570 1999 FX_{5}	14.5	X	270.00028	116.02763	139.59756	12.72898	0.1418136	0.22232310	2.6986485	21	1 16.1	18.6
44571 1999 FQ_{15}	14.8	X	196.82805	319.98891	148.90908	8.50196	0.0598240	0.19515812	2.9435966	21	7 31.1	19.2
44572 1999 FW_{38}	14.7	X	134.00802	91.32598	329.66918	4.19781	0.1611122	0.27096992	2.3651317	21	3 23.1	18.0
44573 1999 FZ_{51}	14.1	X	104.60848	296.80820	172.86117	2.25882	0.1390235	0.18378971	3.0637636	21	4 28.3	18.4
44574 Lavoratti	16.0	X	71.92349	9.74067	160.56482	2.60044	0.1061332	0.27262657	2.3555406	21	5 23.6	18.6
44575 1999 GG_{3}	16.2	X	27.76323	89.10137	182.26980	2.55899	0.1686634	0.27724458	2.3293102	21	8 18.7	18.2
44576 1999 GJ_{10}	15.0	X	120.22183	204.85137	52.15476	1.05317	0.1219998	0.19955831	2.9001659	21	11 12.7	19.3
44577 1999 GJ_{17}	14.8	X	39.88128	77.73701	119.59172	3.20790	0.1949228	0.22712086	2.6605088	21	5 23.4	17.4
44578 1999 GL_{25}	15.1	X	36.66059	291.74500	147.10928	5.49967	0.0790285	0.25787561	2.4445328	21	—	—
44579 1999 GR_{25}	14.1	X	133.75447	119.09705	126.68339	3.18449	0.0397989	0.20040789	2.8919637	21	11 10.2	18.3
44580 1999 GY_{25}	15.4	X	130.92889	212.54443	23.50442	4.61721	0.0813773	0.24187835	2.5511621	21	10 31.7	19.2
44581 1999 GB_{40}	16.3	X	158.82374	117.54325	95.14656	1.78551	0.1497216	0.28739940	2.2741136	21	11 6.6	19.7
44582 1999 JE_{10}	14.0	X	347.35972	163.49434	138.85853	10.54117	0.0627630	0.18549709	3.0449347	21	7 11.4	18.0
44583 1999 JT_{11}	15.6	X	215.27550	15.01060	92.36334	24.10102	0.0673765	0.36784800	1.9291105	21	9 13.4	18.5
44584 1999 JO_{21}	15.7	X	233.31329	274.42255	340.42617	1.60513	0.1741852	0.25414541	2.4683943	21	—	—
44585 1999 JT_{28}	15.9	X	129.30202	205.73150	2.63245	2.96658	0.1135309	0.28127720	2.3069934	21	9 30.5	19.2
44586 1999 JJ_{70}	14.7	X	199.25464	307.37931	70.86509	7.15892	0.0309888	0.22185984	2.7024038	21	4 11.1	18.5
44587 1999 JQ_{70}	16.2	X	183.89779	131.57078	155.79483	4.20787	0.1752746	0.29544917	2.2326168	21	—	—
44588 1999 JF_{124}	15.3	X	58.10369	142.18249	122.94370	24.33377	0.0666827	0.36658056	1.9335545	21	10 5.1	18.0
44589 1999 LQ_{5}	15.3	X	59.35519	115.43239	133.24830	24.95283	0.0648817	0.36478037	1.9399107	21	9 1.1	17.2
44590 1999 LC_{16}	15.8	X	198.80180	308.32125	220.71510	20.06333	0.0419106	0.37014279	1.9211290	21	11 15.8	17.6
44591 1999 NF_{40}	15.0	X	331.34307	110.28219	116.41053	7.58940	0.1022550	0.30197399	2.2003395	21	2 13.7	17.4
44592 1999 OM	14.4	X	351.90255	150.52526	311.32786	10.51784	0.1049434	0.28730493	2.2746120	21	—	—
44593 1999 OG_{3}	15.0	X	103.37523	137.97136	233.04591	20.65630	0.2354270	0.28304191	2.2973944	21	—	—
44594 1999 OX_{3}	7.0	X	355.06213	144.10334	259.07643	2.62481	0.4583037	0.00531942	32.5007441	21	10 22.8	19.5
44595 1999 PE	15.5	X	71.99209	230.73329	142.57618	6.94770	0.1238457	0.28289682	2.2981798	21	—	—
44596 1999 PF	15.8	X	165.83850	220.94361	137.12032	6.79224	0.1975511	0.29282864	2.2459169	21	2 5.8	18.9
44597 Thoreau	15.4	X	263.89953	7.17671	208.46025	5.04254	0.1181085	0.29124605	2.2540456	21	—	—
44598 1999 PL_{6}	14.9	X	310.33041	218.44444	273.74992	4.89522	0.0832645	0.28673175	2.2776423	21	—	—
44599 1999 RA_{2}	15.7	X	299.91494	168.20166	170.23190	3.33330	0.1781069	0.30694568	2.1765152	21	5 28.3	17.9
44600 1999 RU_{10}	14.7	X	225.96502	202.31474	332.01693	20.58995	0.0579405	0.36989872	1.9219739	21	—	—
44601 1999 RM_{12}	15.1	X	315.20812	192.50577	314.39546	5.89976	0.0765155	0.28581261	2.2825228	21	—	—
44602 1999 RN_{12}	15.7	X	302.90201	193.12513	181.84414	6.12997	0.1558640	0.26677878	2.3898383	21	7 31.7	18.3
44603 1999 RT_{12}	14.8	X	302.19206	306.48734	263.18290	3.81094	0.1015026	0.29346064	2.2426912	21	—	—
44604 1999 RN_{14}	16.3	X	4.36450	164.41417	182.87447	2.45761	0.1207775	0.31706122	2.1299723	21	11 3.8	17.9
44605 1999 RM_{16}	15.6	X	309.59096	37.75306	166.47774	2.48094	0.0987348	0.29298150	2.2451357	21	—	—
44606 1999 RQ_{17}	16.1	X	20.10979	323.16910	295.38926	2.11832	0.1124990	0.30914818	2.1661653	21	7 6.6	17.5
44607 1999 RT_{17}	15.0	X	234.34277	348.30624	183.58944	4.89790	0.0895832	0.27862658	2.3216016	21	12 13.3	17.8
44608 1999 RR_{18}	14.8	X	230.08722	115.86448	185.41058	4.91948	0.1685630	0.29544999	2.2326127	21	1 21.6	18.3
44609 1999 RW_{18}	15.0	X	173.91926	69.78621	356.18302	4.78352	0.0829202	0.30143049	2.2029836	21	5 4.2	18.0
44610 1999 RW_{24}	15.6	X	7.57048	271.86719	204.40214	5.86504	0.0678236	0.28577744	2.2827101	21	—	—
44611 1999 RO_{25}	15.7	X	161.30711	202.04906	255.33072	1.70691	0.0784456	0.30250981	2.1977405	21	6 3.8	18.6
44612 1999 RP_{27}	15.5	X	264.48923	189.67606	141.52642	1.12164	0.1779266	0.30254364	2.1975767	21	4 2.7	18.6
44613 Rudolf	15.5	X	344.51078	80.51094	220.53723	7.81337	0.0245183	0.26165664	2.4209262	21	7 6.3	18.5
44614 1999 RM_{34}	15.5	X	184.56550	353.55359	6.29922	7.03784	0.1363931	0.29399144	2.2399909	21	2 23.9	18.8
44615 1999 RQ_{34}	15.6	X	57.75966	271.02806	166.78518	4.97663	0.1214588	0.28631753	2.2798385	21	—	—
44616 1999 RT_{34}	16.2	X	117.09316	198.84983	84.01847	3.42813	0.2074253	0.27760927	2.3272698	21	12 24.7	19.9
44617 1999 RY_{37}	15.5	X	143.11857	37.01068	9.74923	4.80015	0.1427144	0.29314069	2.2443228	21	3 11.9	18.4
44618 1999 RO_{38}	15.3	X	97.54946	232.96758	185.79030	5.97216	0.2265549	0.28778235	2.2720956	21	2 5.4	17.4
44619 1999 RO_{42}	15.9	X	37.16653	197.39799	113.76784	5.48842	0.2280835	0.31609064	2.1343303	21	11 22.2	18.3
44620 1999 RS_{43}	15.6	X	301.85881	181.14825	181.98592	4.39958	0.1641121	0.30696592	2.1764195	21	7 11.5	17.7
44621 1999 RV_{48}	15.7	X	246.17269	80.98856	252.03634	1.71377	0.1287454	0.30245796	2.1979916	21	3 19.5	18.7
44622 1999 RJ_{51}	16.1	X	224.63471	149.02377	183.88662	3.16237	0.1236252	0.29936131	2.2131233	21	2 25.7	19.1
44623 1999 RP_{55}	14.6	X	47.83761	332.52706	132.25455	5.27474	0.1338766	0.29206091	2.2498510	21	—	—
44624 1999 RS_{57}	16.1	X	14.81633	171.20414	110.61266	3.55076	0.1901769	0.31315018	2.1476703	21	8 16.2	17.2
44625 1999 RS_{63}	14.7	X	298.20014	77.21464	248.17852	1.03628	0.1655495	0.17233937	3.1980092	21	5 17.3	18.9
44626 1999 RU_{65}	15.5	X	71.72048	216.59656	236.25020	3.13368	0.1032494	0.29238700	2.2481779	21	1 21.2	17.6
44627 1999 RN_{71}	14.6	X	340.66962	316.41812	152.53946	8.09842	0.0519630	0.28353719	2.2947182	21	—	—
44628 1999 RQ_{75}	15.9	X	119.57532	52.43580	292.17050	3.15240	0.1641190	0.28559978	2.2836566	21	—	—
44629 1999 RT_{83}	15.4	X	74.76701	25.79380	128.01746	6.04304	0.0840261	0.30044806	2.2077833	21	4 29.3	17.7
44630 1999 RY_{83}	15.9	X	63.82885	285.84743	153.76143	6.57787	0.0501893	0.28932027	2.2640368	21	—	—
44631 1999 RT_{87}	14.9	X	83.70450	244.16941	156.12847	5.35898	0.1518168	0.24064400	2.5598785	21	—	—
44632 1999 RZ_{88}	15.1	X	263.21669	288.66682	334.87585	3.44866	0.1274070	0.29415581	2.2391564	21	1 8.8	18.2
44633 1999 RB_{90}	14.7	X	313.91009	300.22676	147.19024	6.72059	0.0647236	0.27596574	2.3365008	21	12 19.9	17.3
44634 1999 RZ_{94}	15.9	X	118.94667	99.90832	175.49116	4.39374	0.1583133	0.27764511	2.3270696	21	12 16.3	19.5
44635 1999 RO_{97}	15.7	X	115.31009	262.36799	33.19108	4.21229	0.1493934	0.27965644	2.3158984	21	—	—
44636 1999 RQ_{103}	15.1	X	54.70932	57.80100	297.65713	6.02193	0.1338140	0.27906011	2.3191965	21	—	—
44637 1999 RN_{105}	15.1	X	357.76597	288.06385	162.70849	3.99137	0.0891207	0.27980037	2.3151041	21	—	—
44638 1999 RA_{109}	16.3	X	227.63750	104.99432	148.72721	5.07209	0.0799980	0.28813695	2.2702312	21	—	—
44639 1999 RM_{109}	15.1	X	65.23754	327.60122	270.97707	5.41928	0.0985031	0.26524740	2.3990279	21	8 18.0	18.0
44640 1999 RQ_{110}	15.8	X	276.77097	12.56203	296.43952	7.10670	0.1441912	0.30005499	2.2097110	21	3 16.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44641 1999 RZ_{111}	15.7	X	355.66936	71.16872	318.41477	20.13982	0.0428265	0.36822697	1.9277867	21	12 29.4	17.9
44642 1999 RL_{114}	16.1	X	120.06314	273.83170	178.24819	5.78803	0.0776110	0.29871725	2.2163032	21	4 3.8	18.7
44643 1999 RS_{114}	15.3	X	208.80102	35.72759	242.40367	4.73135	0.1713339	0.29087135	2.2559809	21	—	—
44644 1999 RY_{114}	15.4	X	165.36341	221.24838	216.83046	5.61231	0.1255350	0.30171477	2.2015996	21	5 15.9	18.6
44645 1999 RC_{118}	15.0	X	316.78995	190.55918	253.33232	5.72648	0.0777682	0.27889714	2.3200998	21	12 20.2	17.4
44646 1999 RN_{121}	15.9	X	200.51920	104.86334	155.31425	6.55544	0.1004027	0.28728967	2.2746926	21	—	—
44647 1999 RA_{129}	14.9	X	261.61665	178.90625	183.67816	2.61435	0.1365459	0.21636738	2.7479460	21	5 22.3	18.9
44648 1999 RN_{140}	16.1	X	14.21616	265.72192	2.96562	1.83829	0.2049029	0.26685684	2.3893723	21	7 19.3	17.7
44649 1999 RY_{141}	15.9	X	190.42935	194.72430	203.73157	2.18630	0.1153741	0.29959597	2.2119675	21	4 18.4	18.8
44650 1999 RF_{143}	15.9	X	133.79842	322.44916	142.89077	3.92495	0.0706272	0.30010822	2.2094497	21	5 11.5	18.6
44651 1999 RB_{148}	15.5	X	39.58804	228.38840	238.14065	3.15487	0.1066516	0.29043288	2.2582509	21	—	—
44652 1999 RC_{150}	15.4	X	142.18753	102.60547	321.27270	2.28790	0.1446310	0.29721225	2.2237787	21	3 31.8	18.3
44653 1999 RQ_{151}	15.8	X	244.78448	177.64177	102.98771	2.59128	0.1496855	0.29582959	2.2307024	21	1 10.7	19.1
44654 1999 RR_{155}	15.7	X	183.72501	69.32067	245.17439	3.43121	0.2235152	0.29147009	2.2528903	21	1 1.1	19.2
44655 1999 RQ_{158}	15.8	X	327.94433	157.80901	153.59800	1.90188	0.1160589	0.30893306	2.1671707	21	6 15.3	17.4
44656 1999 RU_{159}	16.3	X	215.62615	346.45129	71.14024	3.15299	0.1076249	0.30602614	2.1808729	21	6 11.8	19.2
44657 1999 RK_{163}	16.2	X	240.00136	199.33753	228.62754	2.70576	0.0992560	0.30986864	2.1628063	21	7 27.4	18.8
44658 1999 RD_{168}	16.0	X	4.02076	228.35002	77.02988	1.19360	0.1579710	0.31277448	2.1493898	21	8 27.9	17.2
44659 1999 RJ_{169}	15.6	X	306.70645	194.19737	330.50600	7.01237	0.0389669	0.28625130	2.2801902	21	—	—
44660 1999 RQ_{169}	16.1	X	279.51703	158.10600	217.80812	2.97448	0.1164442	0.30878093	2.1678825	21	7 3.3	18.5
44661 1999 RX_{169}	15.1	X	74.34725	256.13565	337.90135	5.49049	0.1315156	0.31266432	2.1498946	21	9 4.9	17.4
44662 1999 RV_{170}	16.2	X	202.90401	265.49359	161.40946	1.70830	0.0588119	0.30552406	2.1832616	21	6 12.3	19.0
44663 1999 RS_{171}	15.4	X	329.29763	218.74058	152.57264	6.68350	0.1132548	0.26943598	2.3740999	21	9 24.7	17.5
44664 1999 RX_{171}	15.4	X	259.99341	315.76621	27.56961	2.66063	0.1339115	0.30332947	2.1937795	21	4 18.2	18.2
44665 1999 RF_{174}	15.6	X	22.08804	49.63541	44.84998	3.35725	0.1155738	0.28547324	2.2843314	21	—	—
44666 1999 RX_{176}	16.0	X	184.48039	182.18131	189.36145	3.20740	0.0527210	0.29645989	2.2275395	21	3 2.2	18.8
44667 1999 RB_{179}	15.6	X	0.01554	234.59059	136.14273	6.99949	0.1276364	0.27318259	2.3523433	21	11 23.8	18.0
44668 1999 RC_{181}	15.5	X	62.63115	324.33317	111.33206	2.41084	0.0761720	0.28840951	2.2688006	21	—	—
44669 1999 RC_{182}	15.7	X	296.75287	63.94807	180.00376	1.95309	0.1591693	0.29685211	2.2255770	21	1 14.5	18.8
44670 1999 RQ_{183}	16.4	X	333.20056	144.53399	136.99495	3.23945	0.1073207	0.30551307	2.1833139	21	5 9.8	18.3
44671 1999 RE_{184}	15.9	X	145.20494	190.62394	153.15946	8.25931	0.1174153	0.28843798	2.2686513	21	—	—
44672 1999 RL_{184}	15.0	X	276.57767	158.30666	136.63963	6.16361	0.1336967	0.30023810	2.2088125	21	3 4.2	18.0
44673 1999 RE_{185}	14.7	X	357.33817	51.99170	126.01481	7.69351	0.0779674	0.29435447	2.2381488	21	1 18.7	16.9
44674 1999 RD_{186}	15.7	X	134.79012	339.90697	137.52462	2.78147	0.0553718	0.30382859	2.1913763	21	5 27.5	18.2
44675 1999 RX_{186}	15.5	X	336.93985	308.90728	281.82552	2.31779	0.1057471	0.29960449	2.2119255	21	2 25.4	17.6
44676 1999 RG_{187}	15.1	X	14.92969	91.56892	14.92357	4.84501	0.1221516	0.28615526	2.2807004	21	—	—
44677 1999 RK_{190}	15.6	X	104.77653	128.48094	339.38367	5.37111	0.0563107	0.29879907	2.2158986	21	3 29.3	18.0
44678 1999 RP_{192}	15.6	X	115.59259	7.54475	182.17918	6.03539	0.0768428	0.26611498	2.3938109	21	8 14.5	18.8
44679 1999 RQ_{193}	14.8	X	109.21510	158.47798	132.46482	5.66744	0.1920742	0.27654249	2.3332510	21	12 27.3	18.6
44680 1999 RD_{194}	14.6	X	338.01522	4.87768	216.42198	5.52182	0.1067409	0.29798707	2.2199223	21	2 12.2	17.2
44681 1999 RZ_{195}	15.4	X	111.84823	115.36127	240.60613	5.80416	0.1505740	0.28583932	2.2823806	21	—	—
44682 1999 RK_{197}	14.4	X	179.66738	227.98106	271.52776	4.68367	0.1058730	0.26519667	2.3993338	21	8 20.9	18.0
44683 1999 RR_{197}	14.9	X	256.18291	220.39668	293.13811	6.38041	0.1048052	0.27814280	2.3242928	21	12 16.7	17.5
44684 1999 RY_{197}	15.3	X	180.38838	6.00103	261.83786	6.55199	0.1469239	0.28504178	2.2866360	21	—	—
44685 1999 RM_{200}	14.7	X	35.31594	156.51952	245.69666	13.30902	0.0848297	0.23542519	2.5975710	21	—	—
44686 1999 RN_{200}	14.9	X	347.44093	207.52087	238.20705	11.27770	0.0527070	0.28009458	2.3134826	21	—	—
44687 1999 RS_{204}	14.3	X	334.54860	249.24919	249.02347	11.96058	0.0992842	0.23880925	2.5729734	21	—	—
44688 1999 RR_{207}	15.2	X	122.05441	121.84279	222.15482	7.61496	0.1673144	0.28487333	2.2875373	21	—	—
44689 1999 RK_{210}	14.8	X	215.94651	123.17995	251.55751	7.37861	0.0675825	0.25375192	2.4709454	21	4 17.1	18.3
44690 1999 RK_{211}	15.1	X	20.61697	328.47255	295.89524	4.83702	0.1321820	0.30745225	2.1741238	21	7 19.8	16.6
44691 1999 RF_{221}	14.6	X	143.04703	126.50896	123.27717	6.73090	0.1034556	0.27713962	2.3298983	21	12 7.8	18.0
44692 1999 RG_{225}	15.1	X	127.02910	70.45202	322.57084	5.12984	0.1742238	0.28999315	2.2605332	21	2 5.8	17.6
44693 1999 RH_{234}	15.5	X	50.92529	236.07908	127.09335	7.31934	0.1293310	0.27847705	2.3224325	21	—	—
44694 1999 RT_{234}	15.3	X	24.48477	105.40835	106.50473	4.96977	0.0794918	0.30226328	2.1989353	21	4 28.9	17.3
44695 1999 RY_{235}	14.9	X	91.52015	325.07911	102.39346	9.97839	0.0938909	0.29023108	2.2592976	21	1 19.1	17.1
44696 1999 RZ_{235}	15.3	X	192.02297	254.07029	113.31622	8.81727	0.1623887	0.29622486	2.2287176	21	3 15.6	18.8
44697 1999 RC_{239}	15.6	X	267.50615	105.45449	132.42304	7.16853	0.1378720	0.29077916	2.2564577	21	—	—
44698 1999 RS_{247}	15.1	X	311.98262	18.85550	113.52300	6.71380	0.0482365	0.28162357	2.3051015	21	—	—
44699 1999 SG	14.4	X	348.93649	113.35804	7.90974	5.32285	0.1149874	0.28232622	2.3012753	21	—	—
44700 1999 SG_3	13.8	X	55.50602	109.23618	259.05281	22.21389	0.2228531	0.27890782	2.3200406	21	—	—
44701 1999 SD_7	14.2	X	219.71477	115.33198	82.98115	6.90689	0.0515297	0.28195165	2.3033130	21	—	—
44702 1999 SJ_7	15.0	X	24.49023	277.39814	120.29741	6.58534	0.1975790	0.27927179	2.3180244	21	—	—
44703 1999 SX_{10}	15.2	X	273.82422	16.35295	105.12596	7.52034	0.0579884	0.27270811	2.3550711	21	12 5.2	17.8
44704 1999 SA_{11}	15.0	X	304.68594	343.64145	165.35965	11.49361	0.1106772	0.27925050	2.3181422	21	—	—
44705 1999 SL_{11}	14.4	X	120.25172	70.82631	70.25569	6.75735	0.0859678	0.25520260	2.4615727	21	6 15.9	17.6
44706 1999 SW_{24}	15.7	X	67.64703	240.77053	161.83615	1.83261	0.0303764	0.23904289	2.5712965	21	—	—
44707 1999 TR_1	15.3	X	351.01032	226.91675	199.51028	6.25590	0.0834937	0.27578793	2.3375050	21	—	—
44708 1999 TS_1	15.4	X	152.90212	113.25637	198.89184	2.04298	0.1356495	0.28424663	2.2908984	21	—	—
44709 1999 TV_1	15.3	X	35.19391	175.29949	170.66744	2.66813	0.2443083	0.27393136	2.3480547	21	12 29.0	18.4
44710 1999 TM_3	15.8	X	132.38511	205.67582	85.96410	4.21118	0.1414895	0.27945954	2.3169861	21	—	—
44711 Carp	14.7	X	272.17761	281.17534	307.48222	5.32720	0.2356411	0.29130999	2.2537157	21	—	—
44712 1999 TJ_5	15.4	X	277.92701	7.00607	347.14707	3.85441	0.1719556	0.30394073	2.1908372	21	5 19.2	18.1
44713 1999 TP_5	15.6	X	299.82552	244.96423	111.26920	1.73416	0.0060821	0.30662003	2.1780560	21	7 24.5	18.1
44714 1999 TS_5	15.5	X	249.78563	25.16286	337.22196	3.70042	0.1790429	0.30213160	2.1995742	21	4 27.2	18.6
44715 1999 TZ_5	15.6	X	324.67783	259.25299	21.12626	5.98794	0.1919305	0.30298099	2.1954614	21	4 6.7	17.4
44716 1999 TG_6	15.2	X	122.42288	258.93693	8.84311	4.37850	0.2227600	0.27369216	2.3494226	21	12 10.2	19.2
44717 Borgoamozzano	15.1	X	188.46198	254.23832	14.07000	3.73825	0.1711421	0.28411791	2.2915903	21	—	—
44718 1999 TP_8	15.4	X	35.47932	258.18621	69.15279	2.57365	0.0622942	0.27028887	2.3691030	21	11 6.1	18.1
44719 1999 TP_9	15.6	X	15.98559	335.96111	18.82590	2.30611	0.2206880	0.27173122	2.3607121	21	12 10.2	18.1
44720 1999 TS_9	15.0	X	183.91965	273.10365	31.22221	5.68716	0.2066645	0.28757223	2.2732023	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44721 1999 TG_{10}	14.7	X	111.57265	160.25822	350.35882	2.25700	0.1330290	0.25569849	2.4583890	21	6 24.8	18.2
44722 1999 TQ_{10}	16.4	X	27.19124	277.15118	14.48954	2.58745	0.1642973	0.31248353	2.1507237	21	9 24.6	18.0
44723 1999 TQ_{12}	16.1	X	215.04255	293.64245	66.71758	3.34510	0.1718899	0.29742272	2.2227295	21	3 26.0	19.6
44724 1999 TU_{13}	15.6	X	151.31860	313.10537	36.12893	6.57667	0.1442551	0.28762986	2.2728986	21	1 5.2	18.7
44725 1999 TD_{14}	15.9	X	156.17994	140.28532	216.92294	5.71337	0.1368732	0.28866089	2.2674832	21	1 17.9	18.9
44726 1999 TT_{14}	15.0	X	93.74257	171.19148	49.04551	3.13145	0.1374351	0.26371185	2.4083316	21	9 9.1	18.3
44727 1999 TZ_{14}	15.2	X	193.85445	156.94919	182.32820	7.71532	0.2315860	0.29296472	2.2452214	21	2 7.7	18.9
44728 1999 TT_{15}	14.8	X	349.17300	216.09739	241.81089	13.11578	0.1367998	0.22845409	2.6501477	21	—	—
44729 1999 TF_{17}	15.3	X	252.59337	322.68325	117.12413	1.58213	0.1300742	0.26227888	2.4170957	21	8 24.8	18.2
44730 1999 TY_{17}	15.5	X	26.51433	335.52328	49.97900	4.55401	0.1885706	0.27417595	2.3466581	21	—	—
44731 1999 TF_{18}	15.9	X	346.52459	123.13688	225.94430	0.54216	0.2054439	0.31146485	2.1554106	21	10 6.1	16.7
44732 1999 TM_{18}	15.9	X	205.59317	262.10924	230.85069	2.15161	0.0919493	0.26505423	2.4001933	21	9 12.2	19.4
44733 1999 TW_{19}	15.3	X	130.21899	331.54577	243.45418	1.43598	0.1467660	0.26800561	2.3825396	21	10 9.9	19.0
44734 1999 TJ_{25}	15.5	X	11.43557	136.66628	210.20160	6.18759	0.1372534	0.26999443	2.3708251	21	11 7.8	17.8
44735 1999 TJ_{27}	14.6	X	53.72534	326.12941	357.99732	1.92868	0.0746103	0.22564623	2.6720874	21	11 19.4	18.2
44736 1999 TF_{30}	15.0	X	240.09744	117.07417	325.10202	1.62303	0.1635372	0.26332730	2.4106757	21	8 7.8	18.3
44737 1999 TW_{32}	15.2	X	256.44649	125.79262	196.75242	8.71073	0.1565984	0.20881643	2.8137982	21	3 24.6	19.6
44738 1999 TD_{35}	15.0	X	212.36982	45.09976	194.78235	24.05622	0.1995724	0.28570197	2.2831121	21	—	—
44739 1999 TV_{36}	15.9	X	359.98266	29.09257	290.28435	4.55226	0.2025627	0.31087519	2.1581353	21	9 13.6	17.0
44740 1999 TJ_{37}	14.2	X	353.04250	30.90624	130.72012	8.86495	0.1209536	0.24129106	2.5553000	21	—	—
44741 1999 TO_{38}	15.6	X	36.60557	304.37497	178.36194	5.41853	0.1255977	0.28884403	2.2665247	21	1 1.2	17.7
44742 1999 TK_{40}	15.5	X	264.40779	81.14319	70.14407	3.85685	0.0795532	0.27715112	2.3298339	21	12 29.8	18.1
44743 1999 TR_{48}	14.7	X	213.24561	7.68634	149.20747	2.57612	0.1457586	0.27037943	2.3685740	21	10 19.8	18.1
44744 1999 TX_{48}	15.1	X	106.89075	32.43877	146.83208	2.57542	0.1090569	0.26045669	2.4283561	21	7 25.1	18.2
44745 1999 TZ_{54}	16.2	X	142.96863	37.45359	211.98045	6.10089	0.0931056	0.27415380	2.3467845	21	12 6.4	19.6
44746 1999 TE_{61}	15.3	X	146.74293	278.29482	193.78622	7.33090	0.1880659	0.21147171	2.7901948	21	6 17.3	19.9
44747 1999 TN_{80}	14.5	X	102.53323	152.56841	39.75442	4.71130	0.1116158	0.26172455	2.4205073	21	8 9.6	17.8
44748 1999 TT_{86}	15.9	X	4.35999	189.92807	174.01615	2.73739	0.1052750	0.23017693	2.6369073	21	11 7.8	18.9
44749 1999 TY_{91}	15.7	X	81.61704	269.77964	120.17887	6.77238	0.1245886	0.28414554	2.2914417	21	—	—
44750 1999 TC_{94}	15.9	X	124.77376	124.66324	171.51224	6.37378	0.1483638	0.27994856	2.3142871	21	—	—
44751 1999 TS_{97}	14.9	X	178.49149	59.54542	89.62320	4.38443	0.1096664	0.26421535	2.4052711	21	9 5.7	18.4
44752 1999 TY_{99}	15.5	X	54.08801	307.64235	143.84672	8.01510	0.0744667	0.28673596	2.2776200	21	—	—
44753 1999 TJ_{102}	14.2	X	257.74613	57.71497	91.55973	15.64675	0.0291916	0.22893677	2.6464215	21	12 13.6	17.6
44754 1999 TJ_{105}	15.4	X	270.67864	309.35498	356.22650	5.29837	0.1970731	0.29827924	2.2184724	21	3 5.3	18.7
44755 1999 TN_{105}	16.1	X	230.39219	272.24503	17.28798	3.36854	0.0692844	0.29057996	2.2574888	21	1 9.6	19.1
44756 1999 TQ_{107}	15.9	X	56.79598	244.63166	241.01463	6.27545	0.0525168	0.29467098	2.2365459	21	2 7.1	18.3
44757 1999 TF_{113}	15.7	X	142.68336	28.89688	279.52858	3.87219	0.1655234	0.28401008	2.2921703	21	—	—
44758 1999 TH_{113}	15.3	X	349.04819	351.13157	242.17128	4.33779	0.1300685	0.30012155	2.2093843	21	3 16.6	17.6
44759 1999 TY_{113}	15.3	X	20.53304	65.46808	207.84836	6.35566	0.0959632	0.26370020	2.4084026	21	7 26.6	17.9
44760 1999 TJ_{114}	15.5	X	23.02687	260.75914	185.16670	5.10357	0.1100369	0.28296436	2.2978141	21	—	—
44761 1999 TF_{115}	15.2	X	113.29930	278.03864	275.88659	5.34330	0.0733587	0.26364186	2.4087578	21	8 16.4	18.4
44762 1999 TZ_{115}	14.8	X	292.32701	156.32078	351.32437	6.64872	0.0487416	0.27996231	2.3142113	21	—	—
44763 1999 TM_{116}	15.4	X	327.37135	33.40061	22.86016	1.47341	0.0502353	0.27308740	2.3528899	21	11 25.8	17.9
44764 1999 TG_{120}	14.9	X	253.38378	74.40337	331.12681	3.69534	0.1068186	0.30688651	2.1767949	21	7 12.7	17.6
44765 1999 TP_{122}	16.0	X	87.41241	246.67737	165.02921	5.34242	0.1459968	0.28624527	2.2802222	21	—	—
44766 1999 TM_{123}	15.1	X	268.61040	69.19684	54.86824	5.80029	0.1780310	0.27128302	2.3633115	21	11 11.5	17.7
44767 1999 TK_{124}	15.8	X	231.19163	246.98576	138.72844	3.46496	0.1525922	0.30177199	2.2013213	21	5 14.3	19.0
44768 1999 TR_{124}	14.7	X	47.76628	245.93174	301.58102	5.40132	0.1050527	0.30042596	2.2078916	21	4 30.8	16.8
44769 1999 TU_{130}	16.6	X	301.70055	291.01310	352.10124	3.46480	0.1539149	0.30147910	2.2027468	21	3 14.2	19.3
44770 1999 TA_{131}	15.8	X	219.99264	32.26768	197.80850	5.11364	0.1951654	0.28450822	2.2894940	21	—	—
44771 1999 TA_{135}	15.4	X	190.12496	306.71209	250.68642	2.21230	0.1358490	0.27343098	2.3509185	21	11 16.5	18.8
44772 1999 TM_{139}	15.9	X	155.55080	12.50615	209.25624	6.08441	0.0883765	0.27133855	2.3629891	21	11 14.4	19.1
44773 1999 TU_{140}	15.8	X	52.14365	16.79268	229.34665	4.29372	0.0735296	0.26073955	2.4265995	21	8 5.3	18.6
44774 1999 TK_{141}	16.1	X	290.33534	82.93501	228.61519	3.03234	0.1940327	0.30108178	2.2046843	21	4 1.8	19.0
44775 1999 TL_{148}	15.4	X	183.79614	346.77178	207.11984	6.68874	0.0524883	0.27246765	2.3564565	21	11 12.7	18.4
44776 1999 TM_{149}	15.8	X	313.11189	183.70464	255.19574	1.72220	0.1163962	0.27251214	2.3561999	21	12 4.3	17.8
44777 1999 TS_{151}	15.1	X	126.43878	205.85166	319.12566	3.89782	0.0286147	0.26005626	2.4308482	21	7 21.2	18.2
44778 1999 TK_{152}	15.4	X	86.56380	180.00975	196.86800	4.78537	0.1470719	0.28218790	2.3020272	21	—	—
44779 1999 TM_{153}	15.5	X	325.47704	304.97638	233.69881	6.55750	0.0464489	0.28748189	2.2736785	21	—	—
44780 1999 TN_{154}	16.0	X	260.58119	254.08099	79.18077	4.27905	0.1305892	0.29982794	2.2108264	21	4 7.9	18.9
44781 1999 TO_{154}	15.4	X	247.93229	295.83948	167.16444	6.27777	0.0827686	0.26625701	2.3929595	21	9 28.0	18.3
44782 1999 TK_{156}	15.4	X	216.76439	194.12719	83.06859	5.47549	0.1568821	0.28600446	2.2815019	21	—	—
44783 1999 TA_{164}	14.9	X	243.46778	95.73598	138.83835	7.55868	0.0750357	0.28265782	2.2994751	21	—	—
44784 1999 TQ_{165}	16.1	X	293.46830	323.96499	327.79294	6.01863	0.0217542	0.29906183	2.2146005	21	4 2.6	18.8
44785 1999 TF_{168}	16.2	X	292.05247	335.86038	291.66692	2.65262	0.1167362	0.29678545	2.2259102	21	2 14.1	19.2
44786 1999 TQ_{171}	15.5	X	120.93554	29.58750	167.14659	2.25638	0.0648439	0.26271952	2.4143922	21	8 30.8	18.8
44787 1999 TE_{172}	14.7	X	249.74884	186.45933	57.45668	5.65772	0.0909415	0.28553428	2.2840059	21	—	—
44788 1999 TS_{172}	15.2	X	109.55661	155.27033	288.94774	4.40311	0.1124498	0.29221993	2.2490347	21	3 11.8	17.8
44789 1999 TU_{172}	15.2	X	302.64962	280.84919	303.62399	4.51651	0.1205991	0.29055188	2.2576343	21	1 2.3	18.2
44790 1999 TV_{173}	14.4	X	144.64813	199.24029	51.92052	12.86638	0.1491079	0.22790903	2.6543714	21	12 1.4	18.8
44791 1999 TN_{176}	15.9	X	354.78913	260.39045	29.99554	2.43341	0.1862481	0.26135006	2.4228191	21	7 4.9	17.8
44792 1999 TK_{177}	15.0	X	12.47014	323.11851	204.51587	3.16429	0.1373342	0.24421634	2.5348537	21	2 3.4	17.7
44793 1999 TB_{178}	15.6	X	146.78428	111.74616	199.88027	6.78663	0.1393354	0.28242977	2.3007128	21	—	—
44794 1999 TP_{180}	15.2	X	343.94623	63.14188	192.65101	6.63591	0.0888507	0.25301297	2.4757542	21	4 27.3	17.8
44795 1999 TU_{180}	15.3	X	41.14683	187.90414	114.91921	3.43890	0.1920738	0.26796189	2.3827988	21	11 1.8	18.2
44796 1999 TY_{180}	14.6	X	353.26688	155.49365	198.09244	4.62028	0.1265590	0.26614903	2.3936067	21	10 12.5	16.9
44797 1999 TD_{181}	15.4	X	331.45578	261.50599	140.55931	2.75025	0.1849815	0.26789254	2.3832100	21	11 16.1	17.1
44798 1999 TL_{191}	14.7	X	246.60843	295.21071	304.92823	7.43460	0.2302810	0.28599159	2.2815704	21	—	—
44799 1999 TQ_{192}	15.5	X	138.00998	319.60256	298.48375	5.89252	0.0850170	0.27353310	2.3503333	21	12 11.5	19.0
44800 1999 TY_{194}	15.1	X	270.34292	347.88871	252.35110	2.59799	0.1111457	0.24143982	2.5542503	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44801 1999 TD_{200}	15.9	X	171.97316	304.86771	351.82564	3.64387	0.1601867	0.28385150	2.2930239	21	—	—
44802 1999 TG_{206}	16.0	X	84.16141	301.47555	23.81756	4.35589	0.1822014	0.27488016	2.3426485	21	—	—
44803 1999 TO_{206}	15.5	X	215.64002	288.80380	1.35564	3.60843	0.1724556	0.24254864	2.5464598	21	1 5.1	19.8
44804 1999 TO_{210}	14.2	X	325.74941	164.46786	315.77264	11.28329	0.1380642	0.22913312	2.6449095	21	—	—
44805 1999 TT_{214}	15.9	X	359.67552	139.43794	181.57039	6.55901	0.1260932	0.26577527	2.3958502	21	9 2.9	18.3
44806 1999 TW_{215}	15.1	X	73.85679	66.86810	130.71841	3.22143	0.1292424	0.25740762	2.4474949	21	7 9.5	18.0
44807 1999 TP_{217}	15.5	X	343.59239	133.03842	161.90712	3.92883	0.1690049	0.30543724	2.1836753	21	6 14.4	17.1
44808 1999 TM_{220}	15.8	X	221.38915	304.90898	316.03989	5.34052	0.1328422	0.28684818	2.2770260	21	—	—
44809 1999 TN_{221}	15.5	X	32.68732	300.63539	123.51410	4.70467	0.1232670	0.28063379	2.3105183	21	—	—
44810 1999 TR_{221}	14.8	X	268.89294	223.87769	142.71781	7.72095	0.1405301	0.30378420	2.1915897	21	6 2.2	17.7
44811 1999 TE_{222}	15.2	X	107.55095	137.64566	261.42954	5.57402	0.0999966	0.24358929	2.5392021	21	1 15.6	18.4
44812 1999 TH_{222}	15.5	X	11.24010	272.16082	284.21014	4.67499	0.1014889	0.29732623	2.2232104	21	3 4.5	17.7
44813 1999 TV_{222}	15.3	X	144.10162	196.25940	103.85644	6.63381	0.1403590	0.28166540	2.3048732	21	—	—
44814 1999 TX_{222}	15.6	X	179.66033	217.19710	118.61233	8.77305	0.1707120	0.28948111	2.2631981	21	1 20.4	18.9
44815 1999 TO_{223}	15.5	X	89.87307	325.47850	129.44596	4.84116	0.2033576	0.29115212	2.2545303	21	3 17.1	17.6
44816 1999 TB_{224}	15.2	X	41.45585	88.04920	330.58246	8.33172	0.2173573	0.27965595	2.3159011	21	—	—
44817 1999 TW_{234}	15.7	X	261.74015	195.10029	82.90591	4.92435	0.1577369	0.29450564	2.2373828	21	1 24.2	19.1
44818 1999 TQ_{236}	16.0	X	217.61686	197.74309	102.90627	5.35842	0.1524724	0.29017211	2.2596037	21	1 11.3	19.4
44819 1999 TS_{236}	15.5	X	264.20055	230.20870	95.78058	6.11040	0.1216204	0.29877648	2.2160103	21	4 4.6	18.6
44820 1999 TX_{236}	14.1	X	315.99155	111.16664	74.92898	13.15901	0.0960623	0.23943402	2.5684955	21	—	—
44821 Amadora	14.9	X	77.36443	89.01078	89.74150	12.07533	0.1030004	0.25388071	2.4701098	21	6 13.7	17.9
44822 1999 TW_{239}	14.9	X	117.25153	162.07584	73.64702	7.21708	0.0724967	0.26876518	2.3780485	21	10 22.3	18.3
44823 1999 TG_{242}	15.4	X	240.00136	31.87440	145.76311	8.88212	0.0361531	0.27479094	2.3431555	21	—	—
44824 1999 TH_{243}	15.4	X	42.33867	280.25053	185.93103	11.54507	0.0598004	0.24449176	2.5329497	21	1 2.9	18.7
44825 1999 TS_{243}	14.6	X	128.04123	138.14024	233.66803	23.51559	0.1716411	0.28404391	2.2919883	21	1 3.9	17.8
44826 1999 TH_{244}	15.8	X	204.87990	153.56072	15.97884	5.36278	0.0563156	0.27266021	2.3553468	21	11 4.1	18.8
44827 1999 TN_{247}	14.0	X	332.60245	352.14297	167.15839	5.47241	0.0836874	0.23728163	2.5840047	21	—	—
44828 1999 TR_{247}	15.7	X	4.36209	249.98827	195.26924	7.13411	0.0660627	0.27803634	2.3248861	21	—	—
44829 1999 TS_{247}	15.2	X	5.65535	205.68022	109.95641	4.99343	0.0658012	0.26318527	2.4115429	21	9 4.7	17.8
44830 1999 TT_{247}	16.5	X	212.65009	184.91046	173.51594	6.79971	0.2125814	0.29599420	2.2298753	21	3 20.0	20.0
44831 1999 TF_{248}	15.9	X	40.61282	186.06096	181.14913	6.55022	0.1284839	0.27414340	2.3468438	21	—	—
44832 1999 TJ_{248}	16.3	X	30.72821	186.56313	134.82686	2.89675	0.2190722	0.26903248	2.3764731	21	11 16.5	18.9
44833 1999 TL_{248}	14.2	X	42.65463	207.50459	101.49360	7.61542	0.0604064	0.26662342	2.3907667	21	10 24.5	17.2
44834 1999 TE_{256}	16.1	X	117.92209	220.86854	256.23482	3.05429	0.0243127	0.30112372	2.2044795	21	4 26.5	18.5
44835 1999 TS_{259}	15.7	X	154.39074	38.29137	139.73119	1.81812	0.1123889	0.26530704	2.3986683	21	9 16.5	19.1
44836 1999 TB_{262}	16.1	X	103.17437	278.78706	284.45526	1.59942	0.1255167	0.26154210	2.4216329	21	8 24.3	19.3
44837 1999 TM_{270}	14.5	X	180.55129	338.61162	293.09496	8.82822	0.0993807	0.23716570	2.5848467	21	—	—
44838 1999 TK_{272}	15.1	X	260.67525	311.35277	295.66401	5.63077	0.0958716	0.28851842	2.2682296	21	—	—
44839 1999 TU_{273}	14.4	X	297.28941	249.42499	291.50238	9.78190	0.0717781	0.23647873	2.5898503	21	—	—
44840 1999 TO_{284}	15.6	X	150.75230	191.92494	112.02350	7.19313	0.1563633	0.28168567	2.3047627	21	—	—
44841 1999 TP_{284}	16.0	X	132.57117	212.57692	92.82089	8.21599	0.1680033	0.27978423	2.3151931	21	—	—
44842 1999 TG_{285}	15.0	X	337.61910	180.99297	95.32928	7.93245	0.1225716	0.25545234	2.4599680	21	5 13.9	17.7
44843 1999 TX_{286}	16.1	X	196.80546	347.84241	241.87497	5.32347	0.0255138	0.27792010	2.3255343	21	—	—
44844 1999 TG_{288}	15.2	X	224.62677	89.51042	186.42679	6.49555	0.1306818	0.28777983	2.2721090	21	—	—
44845 1999 TE_{289}	15.5	X	354.55521	183.84657	172.49022	6.18920	0.0265298	0.22131487	2.7068383	21	10 6.5	18.9
44846 1999 TN_{290}	14.5	X	143.62189	37.82733	203.22485	12.48854	0.1151253	0.22526351	2.6751131	21	11 20.3	18.8
44847 1999 TA_{291}	14.5	X	197.02651	43.36088	209.85448	14.54361	0.1272961	0.23180530	2.6245437	21	—	—
44848 1999 TY_{291}	14.4	X	290.26971	293.70227	212.97133	12.02974	0.1357051	0.22339679	2.6899948	21	—	—
44849 1999 UE_{1}	15.3	X	176.66667	262.79383	62.72706	3.21781	0.1529127	0.28827887	2.2694860	21	1 3.1	18.5
44850 1999 UR_{1}	15.8	X	231.47531	117.98196	218.41837	3.22611	0.1862450	0.29517726	2.2339877	21	3 7.4	19.2
44851 1999 UE_{2}	15.1	X	165.60324	286.54268	72.67938	6.51473	0.2036766	0.28837172	2.2689988	21	2 10.6	18.5
44852 1999 UG_{2}	15.1	X	49.34017	175.03132	159.55608	2.77765	0.2232997	0.27311090	2.3527549	21	12 27.4	18.4
44853 1999 UR_{4}	14.9	X	267.10404	292.36115	166.92808	5.12943	0.0892708	0.22356928	2.6886110	21	10 13.3	18.3
44854 1999 UY_{5}	15.1	X	86.90179	327.75326	271.85559	5.82615	0.0752358	0.26408512	2.4060617	21	9 13.6	18.3
44855 1999 UF_{6}	16.1	X	204.18127	90.87814	292.01070	3.40148	0.0690080	0.29909728	2.2144255	21	4 10.1	19.0
44856 1999 UH_{6}	15.9	X	357.01106	136.46266	217.21160	2.45821	0.2008406	0.26864008	2.3787868	21	10 29.2	17.7
44857 1999 UW_{8}	15.2	X	42.49029	194.34344	209.43191	7.69085	0.1628763	0.27818274	2.3240703	21	—	—
44858 1999 UZ_{13}	16.3	X	245.45325	258.13487	105.82725	2.91577	0.1632530	0.30114040	2.2043981	21	4 29.0	19.4
44859 1999 UH_{14}	15.8	X	96.55182	251.78237	74.21365	5.69946	0.0477538	0.27705948	2.3303476	21	—	—
44860 1999 UC_{15}	15.9	X	302.02059	5.02283	48.31850	6.73704	0.1038319	0.26719289	2.3873685	21	10 9.1	18.4
44861 1999 UL_{15}	14.8	X	340.23015	61.59595	193.62319	4.79748	0.0714557	0.25327677	2.4740348	21	4 21.9	17.6
44862 1999 UM_{15}	14.7	X	283.68961	195.73371	30.24248	7.13418	0.1309165	0.28755282	2.2733046	21	—	—
44863 1999 UV_{15}	15.1	X	252.13105	27.75480	76.63065	5.04254	0.0546935	0.26703687	2.3882983	21	10 12.0	18.1
44864 1999 UJ_{23}	15.5	X	351.87825	107.41751	254.51507	5.02752	0.1199477	0.27045504	2.3681325	21	10 20.9	17.9
44865 1999 UO_{23}	14.6	X	353.87340	296.50415	218.72823	13.05252	0.1076557	0.24332184	2.5410623	21	—	—
44866 1999 UP_{27}	15.5	X	187.40535	208.24566	329.93557	1.47236	0.1466967	0.27217700	2.3581338	21	10 18.7	19.0
44867 1999 UN_{29}	15.4	X	30.32650	151.96499	69.86157	3.57265	0.1353443	0.25709265	2.4494934	21	5 31.5	17.6
44868 1999 UQ_{29}	15.2	X	300.76961	293.29613	28.57339	6.07656	0.1408426	0.25953238	2.4341183	21	5 12.8	18.2
44869 1999 UQ_{34}	15.6	X	128.89165	247.54798	38.43223	5.23923	0.1613184	0.27757064	2.3274858	21	—	—
44870 1999 UP_{35}	15.6	X	62.86499	60.26946	228.27899	6.24653	0.1167255	0.26809258	2.3820243	21	10 28.6	18.6
44871 1999 UR_{38}	14.5	X	157.03077	13.84937	248.07379	7.63521	0.1035254	0.27795953	2.3253143	21	—	—
44872 1999 UA_{41}	15.0	X	141.26546	335.29804	301.09544	5.86284	0.1056811	0.27835643	2.3231034	21	—	—
44873 1999 UF_{41}	15.9	X	122.64474	295.68353	116.26169	6.11830	0.1491019	0.28937087	2.2637728	21	2 23.6	18.6
44874 1999 UY_{44}	15.0	X	298.81373	195.86545	197.12472	4.81469	0.0120300	0.21681969	2.7441229	21	9 6.1	18.6
44875 1999 UO_{45}	15.2	X	209.48942	309.82652	287.02891	5.84741	0.0794052	0.27976436	2.3153028	21	—	—
44876 1999 UG_{46}	16.0	X	152.89173	326.54825	356.02334	6.58685	0.1410645	0.28459095	2.2890503	21	—	—
44877 1999 UK_{46}	15.5	X	165.20125	358.70094	270.43958	6.08824	0.0939691	0.27867517	2.3213317	21	—	—
44878 1999 UD_{49}	14.5	X	342.16591	16.64001	274.16186	5.06830	0.1310403	0.25937502	2.4351027	21	6 10.2	16.8
44879 1999 UP_{50}	15.6	X	165.50329	171.24435	123.82132	4.56518	0.1552391	0.28257070	2.2999477	21	—	—
44880 1999 UF_{51}	15.6	X	218.50083	305.02488	142.47831	6.86259	0.0719377	0.25948937	2.4343873	21	7 29.8	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44881 1999 UJ_{51}	15.8	X	62.76469	217.31733	120.34175	7.01799	0.1460855	0.27422141	2.3463987	21	—	—
44882 1999 UR_{51}	16.2	X	66.92489	198.41345	163.04043	7.08784	0.1238511	0.27685306	2.3315058	21	—	—
44883 1999 UW_{52}	14.5	X	339.56488	336.01486	184.34457	14.37534	0.0775560	0.23751726	2.5822955	21	—	—
44884 1999 UT_{56}	16.1	X	121.27768	30.40952	250.49740	6.39141	0.0936959	0.27540175	2.3396896	21	12 23.0	19.3
44885 Vodička	15.4	X	195.40761	270.97167	85.73829	4.61077	0.1718512	0.24661979	2.5183578	21	3 9.5	19.5
44886 1999 VF_{1}	15.2	X	302.11206	128.85727	247.61732	6.30781	0.2505608	0.26323297	2.4112516	21	7 15.4	17.6
44887 1999 VF_{5}	14.6	X	135.05749	199.01804	160.38788	2.30393	0.0774318	0.23920694	2.5701208	21	—	—
44888 1999 VJ_{5}	14.9	X	234.93192	6.93216	348.57409	3.79191	0.2164711	0.29754150	2.2221380	21	4 2.7	18.5
44889 1999 VC_{6}	14.9	X	281.37250	179.54449	207.53308	2.22146	0.1491455	0.30560874	2.1828583	21	7 17.4	17.1
44890 1999 VF_{7}	15.1	X	197.74842	189.70209	57.86347	3.60691	0.1670622	0.27989570	2.3145784	21	—	—
44891 1999 VB_{8}	15.9	X	294.30871	292.64412	151.63732	2.28998	0.1806527	0.26650734	2.3914608	21	10 29.6	18.0
44892 1999 VJ_{8}	13.0	X	84.20727	78.51672	292.22045	12.20881	0.2120305	0.22789872	2.6544515	21	—	—
44893 1999 VV_{8}	15.9	X	179.82512	268.11168	53.28021	5.34150	0.2551000	0.28767711	2.2726498	21	1 9.9	19.5
44894 1999 VK_{9}	15.3	X	195.90174	108.37645	233.34884	4.94653	0.1224152	0.29037689	2.2585412	21	2 7.6	18.6
44895 1999 VL_{9}	13.8	X	87.69615	356.76806	236.94512	17.98643	0.1176987	0.21502107	2.7594045	21	9 3.7	18.1
44896 1999 VB_{12}	13.3	X	359.19509	183.56560	337.22378	8.37332	0.1101511	0.24084291	2.5584689	21	1 9.4	16.3
44897 1999 VP_{12}	14.7	X	138.69936	266.90886	164.28813	3.52156	0.1432221	0.24676698	2.5173563	21	4 13.6	18.4
44898 1999 VA_{15}	15.6	X	238.39123	319.79356	195.37843	11.91343	0.1258213	0.22983318	2.6395358	21	11 13.2	19.3
44899 1999 VD_{15}	15.4	X	131.67613	303.43776	215.78735	2.80798	0.2117473	0.26093254	2.4254029	21	8 3.2	19.4
44900 1999 VG_{17}	15.0	X	219.09440	290.36805	279.67782	2.12869	0.2528976	0.23170441	2.6253055	21	12 13.2	18.9
44901 1999 VS_{18}	16.8	X	134.15765	284.74358	328.81610	1.57465	0.1809404	0.27399344	2.3477000	21	12 2.3	20.4
44902 1999 VJ_{19}	15.4	X	232.27846	273.25866	79.35299	4.75987	0.1713688	0.29579748	2.2308639	21	4 2.1	18.8
44903 1999 VR_{19}	15.6	X	193.24511	174.70180	205.45896	2.80631	0.1564031	0.29431533	2.2383472	21	3 29.1	18.8
44904 1999 VH_{21}	14.5	X	288.18372	224.24301	209.45559	11.12078	0.1707465	0.22213048	2.7002084	21	9 23.2	17.7
44905 1999 VS_{22}	15.0	X	113.11060	153.41168	247.24166	5.45939	0.1599125	0.28741925	2.2740088	21	1 23.9	17.6
44906 1999 VF_{23}	15.1	X	290.72043	300.24457	294.43352	3.14720	0.0884122	0.28864151	2.2675847	21	1 5.7	18.2
44907 1999 VM_{24}	14.1	X	104.02975	116.02803	261.11721	18.92009	0.0400652	0.28291214	2.2980969	21	—	—
44908 1999 VR_{24}	16.3	X	327.45274	145.68543	229.25582	1.13242	0.1520157	0.26457006	2.4031207	21	9 21.5	18.4
44909 1999 VV_{24}	14.8	X	153.47446	99.40787	252.28087	9.39869	0.2362219	0.28608497	2.2810739	21	1 19.2	18.2
44910 1999 VX_{24}	15.1	X	90.42096	193.70883	211.30677	3.74565	0.2087290	0.28289095	2.2982116	21	1 1.7	17.0
44911 1999 VJ_{25}	14.7	X	140.01607	76.65777	277.91930	3.46650	0.1472394	0.28320957	2.2964876	21	—	—
44912 1999 VN_{25}	14.8	X	112.12507	68.92124	320.15373	3.17048	0.1060825	0.28309204	2.2971231	21	—	—
44913 1999 VD_{26}	14.7	X	53.05568	222.96621	243.50411	5.55363	0.1006826	0.23938899	2.5688176	21	1 22.4	17.6
44914 1999 VN_{27}	15.6	X	48.37242	62.28826	9.44443	4.93350	0.1251442	0.28261313	2.2997175	21	—	—
44915 1999 VR_{27}	15.1	X	105.51602	92.34410	238.81180	4.67308	0.2136761	0.28053884	2.3110396	21	—	—
44916 1999 VL_{28}	16.6	X	139.72626	137.17712	255.51838	0.52352	0.1992715	0.28931223	2.2640787	21	2 23.8	19.7
44917 1999 VY_{29}	15.8	X	169.36952	91.51611	234.07152	5.90263	0.1412291	0.28521142	2.2857292	21	—	—
44918 1999 VV_{30}	14.0	X	54.53175	192.45895	54.45707	5.33727	0.1455605	0.25823421	2.4422692	21	8 26.9	16.9
44919 1999 VC_{31}	13.7	X	329.10489	195.99322	235.30845	3.83970	0.1227194	0.27062223	2.3671571	21	12 22.9	15.8
44920 1999 VK_{32}	15.9	X	11.50396	87.77686	203.03890	1.00056	0.1826954	0.26129153	2.4231808	21	8 15.9	17.7
44921 1999 VL_{32}	14.5	X	37.86126	200.69377	54.13749	4.42212	0.0483308	0.21217727	2.7840059	21	7 24.6	18.2
44922 1999 VE_{34}	15.7	X	66.09228	98.99907	236.07014	4.78482	0.1429058	0.27292419	2.3538279	21	—	—
44923 1999 VF_{34}	14.3	X	252.39561	93.70833	55.62345	5.89572	0.1490741	0.22326583	2.6910466	21	11 17.3	17.8
44924 1999 VN_{34}	14.9	X	131.01433	58.23159	250.24449	14.10726	0.1658959	0.23180855	2.6245192	21	—	—
44925 1999 VB_{36}	15.2	X	252.96531	149.25285	267.63763	1.37515	0.1749878	0.25900155	2.4374430	21	7 17.4	18.5
44926 1999 VC_{36}	14.5	X	326.03965	276.55504	253.17852	7.30724	0.1576570	0.23404957	2.6077392	21	—	—
44927 1999 VX_{36}	15.1	X	140.09646	108.07643	239.98752	5.86191	0.2093606	0.28404594	2.2919774	21	—	—
44928 1999 VJ_{37}	15.7	X	93.93588	83.62552	250.07558	4.94026	0.1587442	0.27555438	2.3388256	21	—	—
44929 1999 VR_{37}	14.1	X	24.55939	211.60290	72.51741	18.72888	0.1252299	0.21308841	2.7760642	21	8 31.0	17.8
44930 1999 VC_{39}	15.4	X	158.95540	9.50842	242.32162	6.10903	0.1105985	0.27258268	2.3557935	21	12 24.6	18.8
44931 1999 VD_{39}	15.4	X	86.97623	2.96221	242.01656	8.32363	0.0798836	0.26217230	2.4177507	21	9 20.9	18.8
44932 1999 VJ_{40}	15.4	X	94.95606	40.85160	246.84984	3.66202	0.1551964	0.27223300	2.3578103	21	12 7.8	18.9
44933 1999 VU_{44}	15.0	X	191.61805	336.24035	254.57419	7.20258	0.1448080	0.27843256	2.3226799	21	12 30.3	18.4
44934 1999 VV_{45}	15.9	X	140.49280	2.07149	353.99847	6.82582	0.1561871	0.28698154	2.2763205	21	1 2.9	18.8
44935 1999 VT_{49}	15.7	X	83.79698	80.07369	250.15675	3.23930	0.1734823	0.27610712	2.3357032	21	—	—
44936 1999 VD_{50}	15.2	X	352.58003	302.06468	350.38381	2.51825	0.1089058	0.30410992	2.1900246	21	7 5.9	16.8
44937 1999 VU_{50}	14.0	X	341.25783	308.62549	243.05337	10.99211	0.1047953	0.24115882	2.5562340	21	1 19.5	17.3
44938 1999 VV_{50}	15.1	X	244.17216	70.33628	266.66714	2.65583	0.1717199	0.29658571	2.2269095	21	3 20.1	18.4
44939 1999 VB_{52}	14.5	X	100.37421	3.42446	242.06308	8.51249	0.1196613	0.21976215	2.7195734	21	10 8.9	18.7
44940 1999 VH_{53}	14.3	X	142.71664	100.47754	78.21035	6.93779	0.0687032	0.25830043	2.4418518	21	9 5.7	17.8
44941 1999 VQ_{53}	15.6	X	66.28316	224.76171	27.71972	1.55800	0.1572469	0.26467717	2.4024723	21	9 20.6	18.6
44942 1999 VM_{55}	15.4	X	272.62445	238.41552	227.00298	4.37738	0.1801397	0.26788811	2.3832362	21	10 20.1	18.0
44943 1999 VB_{57}	15.4	X	234.76011	261.34054	204.58388	1.88773	0.1775506	0.26279414	2.4139352	21	8 31.2	18.9
44944 1999 VS_{58}	15.1	X	27.08103	282.41017	49.44537	6.52063	0.1174904	0.26822084	2.3812649	21	11 7.9	17.7
44945 1999 VG_{59}	15.5	X	147.13450	272.74500	227.85297	8.88463	0.1069528	0.25604512	2.4561697	21	7 17.2	19.2
44946 1999 VU_{61}	15.7	X	54.14093	231.29246	14.25009	0.85684	0.1316487	0.26081241	2.4261476	21	8 19.4	18.4
44947 1999 VK_{62}	14.3	X	56.43723	20.59317	228.86986	3.13061	0.1107789	0.26117733	2.4238872	21	8 23.2	17.3
44948 1999 VT_{63}	15.3	X	264.68156	321.11956	241.75894	1.42373	0.0976149	0.23458285	2.6037855	21	—	—
44949 1999 VX_{63}	14.8	X	5.06435	90.99153	50.30617	8.20329	0.1356673	0.23819968	2.5773611	21	—	—
44950 1999 VY_{65}	15.7	X	283.49770	208.33381	212.46182	5.27015	0.0697445	0.26472992	2.4021532	21	9 19.4	18.6
44951 1999 VD_{68}	13.8	X	294.12929	7.14436	227.79908	13.40737	0.1232250	0.24201601	2.5501946	21	1 11.9	17.7
44952 1999 VB_{71}	15.9	X	132.99902	111.98292	198.90613	2.12765	0.1802205	0.27956642	2.3163955	21	—	—
44953 1999 VB_{72}	14.8	X	252.37664	302.65516	112.04912	7.05955	0.1453752	0.25542342	2.4601537	21	7 17.8	18.1
44954 1999 VN_{72}	15.1	X	108.98496	62.78168	230.99613	5.70025	0.1192218	0.27492717	2.3423814	21	12 27.1	18.6
44955 1999 VS_{72}	14.7	X	221.00384	272.74981	259.21055	2.59456	0.1388443	0.22432533	2.6825665	21	11 9.8	18.7
44956 1999 VQ_{77}	15.7	X	320.90667	36.70298	312.96972	1.89250	0.1124422	0.26126503	2.4233447	21	8 2.9	18.2
44957 1999 VG_{78}	15.6	X	156.40205	279.48777	318.71707	4.22114	0.1551461	0.27470193	2.3436616	21	12 3.3	19.2
44958 1999 VT_{78}	15.6	X	145.45584	206.79812	13.23955	6.57289	0.0485062	0.26905349	2.3763494	21	10 29.6	18.9
44959 1999 VL_{82}	16.3	X	209.13646	219.79288	81.86037	1.81231	0.1745539	0.29026677	2.2591124	21	1 5.4	19.9
44960 1999 VJ_{86}	14.9	X	196.58009	129.99040	78.86059	7.70745	0.0691448	0.27388765	2.3483045	21	12 15.6	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
44961 1999 VS_{86}	15.3	X	99.27235	225.09057	147.88644	10.87843	0.0911880	0.23775212	2.5805946	21	—	—
44962 1999 VL_{87}	15.4	X	12.85520	104.46286	244.83218	4.82493	0.2186675	0.27043865	2.3682282	21	11 26.7	17.6
44963 1999 VZ_{88}	16.6	X	174.68282	104.91172	215.63063	5.53428	0.1418274	0.28632830	2.2797814	21	—	—
44964 1999 VK_{90}	15.1	X	82.23024	165.02981	32.83751	6.78046	0.0623038	0.25886546	2.4382973	21	7 12.5	18.2
44965 1999 VY_{92}	15.6	X	339.29296	289.33134	199.20421	6.65444	0.0603774	0.28258172	2.2998879	21	—	—
44966 1999 VD_{93}	15.4	X	242.15395	330.68565	192.34760	2.93294	0.1081017	0.27448251	2.3449105	21	12 8.2	18.2
44967 1999 VG_{93}	15.4	X	112.74227	194.94258	20.01452	3.13551	0.1189664	0.26587809	2.3952325	21	9 20.9	18.8
44968 1999 VC_{97}	16.2	X	315.70592	258.37330	187.46709	1.74745	0.0754026	0.27254473	2.3560121	21	12 19.4	18.7
44969 1999 VD_{97}	15.9	X	225.47933	172.48324	215.66848	5.11633	0.2406404	0.30069154	2.2065913	21	5 6.6	19.3
44970 1999 VJ_{98}	16.2	X	48.20461	222.43379	54.22984	3.18589	0.1199912	0.26447044	2.4037242	21	9 24.1	18.9
44971 1999 VA_{100}	15.9	X	19.31320	38.00468	226.58226	1.79801	0.1757921	0.25890270	2.4380634	21	7 20.1	17.9
44972 1999 VB_{112}	15.1	X	266.99239	152.61200	230.44229	0.55488	0.0782403	0.21121083	2.7924919	21	7 2.6	19.0
44973 1999 VV_{112}	16.5	X	20.72949	26.13994	317.85902	0.63530	0.1969230	0.26808213	2.3820862	21	11 27.7	19.0
44974 1999 VT_{114}	14.9	X	83.96443	58.63771	257.68384	9.13225	0.1672820	0.27620058	2.3351762	21	—	—
44975 1999 VD_{145}	14.7	X	242.15938	107.20477	285.13616	4.78898	0.0636949	0.21116840	2.7928660	21	6 15.7	18.5
44976 1999 VJ_{146}	15.8	X	109.53531	30.23879	194.73431	3.46982	0.1093768	0.26454338	2.4032823	21	9 28.6	19.2
44977 1999 VN_{156}	14.6	X	178.73640	280.51084	238.52158	7.59652	0.1466846	0.21540342	2.7561382	21	9 8.6	19.2
44978 1999 VN_{157}	15.4	X	357.67922	218.65076	225.14656	8.86427	0.1393434	0.27819856	2.3239822	21	—	—
44979 1999 VT_{157}	15.9	X	69.60388	196.14322	220.87176	7.46648	0.0849229	0.28468942	2.2885224	21	—	—
44980 1999 VW_{157}	15.7	X	17.37398	52.69212	258.30566	1.60417	0.1975741	0.26578489	2.3957924	21	10 2.9	18.0
44981 1999 VG_{159}	15.6	X	61.17161	39.22701	241.89199	5.46168	0.0888554	0.26696515	2.3887260	21	10 10.4	18.7
44982 1999 VD_{160}	14.5	X	101.16202	193.01953	358.87016	2.66971	0.1249272	0.25979343	2.4324874	21	8 7.7	17.7
44983 1999 VU_{163}	15.2	X	39.52960	46.20491	236.54350	7.27362	0.1087117	0.26399754	2.4065938	21	9 11.9	18.2
44984 1999 VC_{164}	15.5	X	170.78606	338.72330	336.66678	1.68534	0.1140780	0.28457981	2.2891100	21	—	—
44985 1999 VD_{164}	15.0	X	104.39548	247.01714	292.01535	2.48461	0.0239171	0.21151549	2.7898099	21	7 9.3	18.7
44986 1999 VT_{164}	15.7	X	119.04219	278.46245	43.52854	7.52831	0.1356564	0.27894972	2.3198083	21	—	—
44987 1999 VW_{168}	15.6	X	9.02511	82.54949	348.41163	1.50649	0.1166048	0.27544935	2.3394201	21	—	—
44988 1999 VR_{172}	15.8	X	178.45595	57.66019	32.91468	2.41000	0.0271665	0.25304994	2.4755130	21	6 15.5	18.9
44989 1999 VG_{173}	15.9	X	324.19654	185.73209	142.66287	1.73507	0.2063272	0.26159328	2.4213170	21	6 22.6	18.1
44990 1999 VD_{174}	14.3	X	85.46993	341.90666	314.82105	8.83671	0.0667210	0.22728008	2.6592661	21	11 20.9	18.3
44991 1999 VJ_{174}	14.5	X	60.42044	237.83925	27.43023	6.92657	0.0866062	0.26249795	2.4157507	21	9 20.8	17.5
44992 1999 VK_{178}	15.4	X	161.65557	177.20283	111.41168	6.14167	0.1143318	0.28128460	2.3069530	21	—	—
44993 1999 VP_{178}	16.4	X	164.59945	228.90052	144.95571	6.10629	0.1646384	0.29135100	2.2535042	21	2 22.3	19.6
44994 1999 VM_{179}	15.2	X	73.15969	24.41231	117.61174	10.09788	0.0589032	0.24755942	2.5119814	21	4 14.6	18.4
44995 1999 VS_{184}	15.8	X	125.97231	294.79732	136.39094	2.05988	0.0935375	0.29284544	2.2458310	21	3 16.6	18.5
44996 1999 VT_{184}	15.5	X	297.33677	109.77305	64.18550	3.61269	0.0429907	0.28253716	2.3001297	21	—	—
44997 1999 VX_{184}	16.2	X	213.34716	224.28189	105.94643	2.96715	0.1910243	0.29371541	2.2413941	21	2 14.1	19.8
44998 1999 VH_{185}	15.2	X	322.81066	33.20088	113.30332	2.77992	0.0453583	0.23385775	2.6091650	21	—	—
44999 1999 VQ_{186}	15.2	X	292.34612	289.60146	120.44379	2.96332	0.0761959	0.21974513	2.7197139	21	9 14.7	18.5
45000 1999 VR_{186}	14.7	X	195.04956	307.59426	191.74990	5.75097	0.0214586	0.21853973	2.7297054	21	9 9.7	18.5
45001 1999 VZ_{186}	15.1	X	70.70055	212.31902	75.73383	6.56854	0.2566182	0.27081424	2.3660380	21	11 24.5	18.6
45002 1999 VS_{193}	15.0	X	73.22261	357.90356	251.67785	6.45694	0.0583333	0.26424584	2.4050860	21	9 6.2	18.1
45003 1999 VL_{194}	16.0	X	229.06928	318.57561	158.84463	4.61706	0.0538671	0.26420618	2.4053267	21	9 26.9	19.0
45004 1999 VD_{197}	16.5	X	246.40710	194.34575	139.46703	5.41752	0.1959820	0.29901068	2.2148530	21	3 19.7	19.8
45005 1999 VR_{198}	15.9	X	242.87677	186.55261	105.51932	8.75871	0.1063646	0.29121546	2.2542034	21	1 25.9	19.2
45006 1999 VV_{198}	16.4	X	144.44975	176.02690	166.20775	6.93607	0.1370836	0.28536115	2.2849296	21	—	—
45007 1999 VD_{201}	14.6	X	128.65288	301.00955	127.21293	18.87444	0.1394669	0.20012870	2.8946527	21	4 9.4	19.3
45008 1999 VN_{201}	15.4	X	92.72316	355.53070	314.04637	3.04579	0.2157673	0.27457183	2.3444019	21	—	—
45009 1999 VR_{204}	13.8	X	356.40126	95.62856	348.47985	12.31215	0.1689473	0.22508688	2.6765124	21	—	—
45010 1999 VS_{209}	14.6	X	272.07384	216.28996	286.31378	5.79697	0.1504202	0.18260547	3.0769955	21	11 26.4	18.7
45011 1999 VC_{217}	15.3	X	69.99612	320.06745	141.70555	4.97845	0.1704367	0.24055021	2.5605439	21	2 23.6	17.9
45012 1999 VY_{222}	14.5	X	295.87883	335.02799	146.35214	14.80975	0.1497396	0.22624614	2.6673618	21	12 19.1	17.7
45013 1999 WK	13.5	X	358.92273	66.07022	52.73266	9.66887	0.1570889	0.23175565	2.6249185	21	—	—
45014 1999 WP	15.5	X	324.45484	288.51463	149.87444	1.32743	0.1679717	0.27011142	2.3701405	21	12 26.8	17.3
45015 1999 WQ	14.6	X	112.07657	103.21815	271.63565	10.61346	0.1830547	0.23687988	2.5869256	21	1 4.8	17.9
45016 1999 WV_{2}	14.2	X	226.96931	7.54708	111.63555	10.16919	0.0894623	0.21588434	2.7520435	21	9 20.9	18.3
45017 1999 WK_{3}	14.8	X	36.77889	156.24014	234.40351	12.37541	0.1830261	0.27450443	2.3447856	21	—	—
45018 1999 WS_{3}	15.2	X	100.55594	164.45854	227.42009	2.58355	0.2150907	0.28300105	2.2976155	21	1 2.7	17.3
45019 1999 WU_{4}	14.6	X	94.12904	33.35124	295.70679	6.14507	0.1299199	0.27452799	2.3446515	21	—	—
45020 1999 WC_{5}	12.9	X	251.58610	129.66475	91.12867	12.35416	0.0583261	0.18605145	3.0388832	21	—	—
45021 1999 WE_{6}	15.6	X	245.77336	351.60991	116.87928	3.49878	0.1172793	0.26410440	2.4059446	21	9 28.0	18.6
45022 1999 WF_{6}	15.5	X	11.93293	269.28285	80.03243	7.27754	0.1520846	0.26838329	2.3803038	21	11 15.1	17.9
45023 1999 WM_{6}	15.3	X	64.35325	234.18287	210.75751	3.04579	0.1039712	0.23814285	2.5777711	21	1 13.2	18.2
45024 1999 WN_{7}	15.0	X	36.26491	252.86482	79.58231	7.57151	0.2163542	0.26921637	2.3753908	21	12 7.8	17.9
45025 1999 WY_{7}	13.9	X	264.08715	237.68476	267.71491	12.00358	0.1795637	0.22046012	2.7138303	21	11 21.8	17.5
45026 1999 WE_{8}	16.1	X	88.95628	297.33063	90.04328	2.75666	0.2061777	0.28192655	2.3034497	21	—	—
45027 Cosquer	15.4	X	325.10314	233.58087	140.40187	5.12690	0.0616362	0.21754411	2.7380276	21	9 16.7	18.7
45028 1999 WD_{9}	14.3	X	292.38611	252.71126	203.75220	6.85130	0.0665815	0.26879317	2.3778834	21	11 26.8	16.9
45029 1999 WN_{9}	14.9	X	183.41805	196.99081	133.06689	1.99556	0.1453007	0.24108961	2.5567232	21	1 22.6	18.9
45030 1999 WJ_{13}	15.6	X	294.68385	148.12465	58.91713	3.12120	0.1147219	0.23857424	2.5746628	21	—	—
45031 1999 WR_{13}	14.3	X	100.53891	72.30519	102.98310	8.03778	0.1517046	0.20578474	2.8413666	21	7 17.2	18.3
45032 1999 WL_{16}	15.6	X	52.05830	273.76288	68.26893	4.85276	0.1285036	0.27302367	2.3532561	21	12 27.9	18.7
45033 1999 WL_{20}	15.1	X	67.06354	302.69635	206.31314	10.53355	0.1168453	0.24520816	2.5280138	21	4 18.1	17.8
45034 1999 XA_{2}	14.5	X	94.50843	281.63394	112.63751	14.21390	0.1838483	0.23729305	2.5839218	21	1 5.2	17.5
45035 1999 XB_{2}	14.3	X	127.73713	199.32003	169.83461	9.42661	0.0932682	0.23789717	2.5795456	21	1 4.2	17.9
45036 1999 XD_{3}	15.7	X	336.45803	200.74550	214.44575	7.09380	0.0839192	0.27043581	2.3682448	21	12 10.4	18.3
45037 1999 XP_{4}	15.0	X	193.67432	333.49899	106.24911	3.26251	0.0394720	0.20967816	2.8060835	21	6 21.2	19.0
45038 1999 XE_{6}	15.4	X	98.15734	273.59035	62.48943	7.38568	0.1427841	0.27692774	2.3310866	21	—	—
45039 1999 XW_{7}	15.4	X	144.59671	150.27689	259.89301	1.34916	0.1503240	0.24348688	2.5399140	21	3 23.3	19.2
45040 1999 XJ_{8}	14.0	X	206.60835	193.27446	93.06559	8.07233	0.1425084	0.23484183	2.6018709	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45041 1999 XE_{10}	15.1	X	315.66163	147.16886	322.66848	6.65795	0.0674781	0.27501326	2.3418925	21	—	—
45042 1999 XW_{10}	13.8	X	296.13467	289.84175	329.92036	4.85601	0.0830614	0.29245023	2.2478539	21	2 14.9	16.7
45043 1999 XG_{11}	15.3	X	7.86909	96.40820	290.96250	5.69103	0.1200816	0.27202961	2.3589855	21	12 27.2	17.8
45044 1999 XW_{12}	15.4	X	356.39341	201.26951	163.64928	6.88723	0.1115597	0.26615925	2.3935454	21	11 5.4	17.9
45045 1999 XD_{17}	14.6	X	112.49053	75.29540	272.91545	22.55831	0.2737992	0.27907250	2.3191278	21	—	—
45046 1999 XN_{20}	15.5	X	180.97579	302.68919	170.45494	2.83801	0.1288975	0.25759223	2.4463253	21	7 19.0	19.2
45047 1999 XO_{20}	15.0	X	66.29883	200.91135	65.15432	7.32122	0.0725111	0.26507337	2.4000778	21	9 29.9	18.1
45048 1999 XB_{21}	15.5	X	301.37170	358.80906	71.76063	4.95549	0.0902928	0.26874093	2.3781916	21	11 2.8	17.9
45049 1999 XL_{21}	15.8	X	151.41378	156.78529	180.73103	6.61725	0.1345417	0.28496481	2.2870477	21	—	—
45050 1999 XW_{21}	13.9	X	293.80362	298.97083	282.76698	12.01802	0.1202195	0.23099673	2.6306647	21	1 1.1	17.6
45051 1999 XP_{22}	15.0	X	80.19418	330.64042	66.02800	6.99417	0.1440230	0.28250387	2.3003104	21	—	—
45052 1999 XX_{23}	15.4	X	51.89375	131.11664	244.98049	5.79747	0.1367987	0.27717933	2.3296758	21	—	—
45053 1999 XK_{26}	14.5	X	232.67078	145.56370	344.30640	2.12632	0.1489354	0.26590472	2.3950726	21	10 3.8	17.6
45054 1999 XN_{26}	14.6	X	357.78588	298.08768	244.41144	1.72026	0.1272428	0.24334649	2.5408907	21	1 31.7	17.4
45055 1999 XT_{26}	15.4	X	167.00687	93.26463	242.56448	4.32199	0.1333694	0.28681902	2.2771803	21	1 3.5	18.5
45056 1999 XR_{27}	15.7	X	149.31934	284.92695	77.67329	5.55913	0.2223905	0.28785978	2.2716882	21	1 30.8	18.9
45057 1999 XO_{29}	15.5	X	13.78220	275.74612	96.11193	7.12369	0.1206478	0.27010604	2.3701720	21	12 14.4	18.0
45058 1999 XR_{29}	15.7	X	192.83680	246.73907	99.11014	4.34690	0.1798803	0.29064538	2.2571500	21	2 16.1	19.1
45059 1999 XT_{29}	15.2	X	99.59913	179.49176	205.70848	6.13785	0.1240381	0.28182874	2.3039826	21	—	—
45060 1999 XL_{30}	15.4	X	20.52840	138.00857	186.57548	6.73020	0.1240738	0.26426696	2.4049579	21	10 19.1	17.9
45061 1999 XL_{31}	14.0	X	66.37361	335.73705	133.87141	10.14281	0.0191410	0.23875046	2.5733957	21	2 12.3	17.3
45062 1999 XM_{31}	14.1	X	333.30025	60.69106	121.34860	9.52768	0.1155175	0.18766995	3.0213861	21	1 10.4	18.1
45063 1999 XR_{31}	14.0	X	172.40310	220.89844	119.52353	15.33004	0.1958285	0.23635283	2.5907699	21	1 29.5	18.1
45064 1999 XT_{31}	14.9	X	10.38960	191.08555	244.34695	1.26142	0.2335766	0.22634921	2.6665520	21	—	—
45065 1999 XU_{31}	14.3	X	35.74667	227.84892	296.61352	8.81343	0.0760716	0.23744794	2.5827980	21	3 11.3	17.5
45066 1999 XN_{32}	13.9	X	56.84648	317.43160	116.66620	16.33407	0.0782368	0.23146269	2.6271329	21	—	—
45067 1999 XW_{32}	14.1	X	31.55064	253.29096	280.62488	7.49105	0.1616329	0.19196399	2.9761595	21	3 29.4	17.5
45068 1999 XA_{34}	13.1	X	331.24850	237.98205	317.38798	9.53931	0.0589546	0.18710444	3.0274710	21	2 1.2	17.2
45069 1999 XB_{35}	13.2	X	229.00839	109.60445	123.99588	14.31985	0.0233003	0.17781591	3.1320040	21	—	—
45070 1999 XA_{36}	15.6	X	290.30382	316.38444	103.77304	3.04280	0.2000599	0.26364339	2.4087485	21	9 11.8	18.1
45071 1999 XA_{37}	15.7	X	117.03199	170.81238	205.63796	5.97277	0.1708900	0.28296560	2.2978074	21	—	—
45072 1999 XC_{37}	15.2	X	232.51125	175.24251	190.91321	7.87242	0.2115110	0.29864582	2.2166566	21	4 16.1	18.6
45073 Doyanrose	14.8	X	47.71243	22.04756	8.00620	6.90875	0.1475884	0.27648257	2.3335881	21	—	—
45074 1999 XA_{38}	15.5	X	268.68295	60.49881	276.18267	5.22500	0.2516126	0.29974385	2.2112399	21	4 4.1	19.1
45075 1999 XB_{38}	14.5	X	40.77244	177.23891	263.88405	9.74805	0.0360019	0.18905884	3.0065705	21	—	—
45076 1999 XQ_{38}	13.9	X	6.41183	346.36823	78.07090	9.38813	0.2917819	0.22489813	2.6780097	21	—	—
45077 1999 XU_{39}	15.4	X	110.33939	155.74889	186.12513	6.51695	0.1331378	0.27808942	2.3245902	21	—	—
45078 1999 XZ_{39}	14.4	X	140.15497	278.32848	110.46486	10.31217	0.1427810	0.24020455	2.5629997	21	2 22.6	18.1
45079 1999 XZ_{41}	13.7	X	66.04468	152.09928	240.04337	12.58328	0.0950061	0.23411645	2.6072425	21	—	—
45080 1999 XB_{43}	15.9	X	41.23602	1.09972	36.34512	2.49094	0.2203522	0.27723711	2.3293521	21	—	—
45081 1999 XE_{44}	15.6	X	145.22609	38.95616	271.51045	3.86404	0.1538330	0.28056007	2.3109230	21	—	—
45082 1999 XF_{44}	14.4	X	46.87642	253.15194	47.21010	7.03937	0.1324920	0.26648165	2.3916145	21	10 27.1	17.2
45083 1999 XQ_{44}	15.0	X	281.09112	9.73962	252.02286	6.52685	0.1050939	0.29002809	2.2603517	21	1 25.8	18.3
45084 1999 XG_{45}	15.7	X	92.32760	219.35019	106.32926	3.21861	0.2444491	0.27732942	2.3288352	21	—	—
45085 1999 XH_{45}	15.5	X	156.11985	280.75304	83.13286	6.29129	0.1462945	0.28825858	2.2695925	21	1 30.9	18.6
45086 1999 XE_{46}	14.6	X	19.56880	185.67736	48.47981	5.58787	0.1080261	0.29800500	2.2198333	21	5 23.7	16.5
45087 1999 XM_{46}	14.4	X	152.78478	357.21207	244.62002	13.14864	0.1589375	0.22493723	2.6776994	21	11 28.4	18.8
45088 1999 XX_{46}	14.3	X	16.25519	178.94495	255.99692	3.51883	0.1632298	0.18623297	3.0369083	21	—	—
45089 1999 XA_{47}	14.9	X	273.74500	250.12933	24.95233	2.76394	0.0325582	0.24458239	2.5323239	21	2 22.9	18.3
45090 1999 XA_{49}	13.6	X	243.06503	320.82282	249.71598	11.96198	0.2488585	0.22948398	2.6422128	21	—	—
45091 1999 XT_{49}	15.8	X	51.53109	241.82695	257.32949	1.49548	0.0148782	0.24400472	2.5363191	21	2 28.5	19.0
45092 1999 XD_{50}	16.1	X	330.80671	101.62209	233.77078	1.58612	0.2283738	0.26208480	2.4182888	21	7 16.2	17.7
45093 1999 XF_{52}	16.1	X	81.72710	72.60007	262.79648	2.25378	0.1849869	0.27538495	2.3397848	21	—	—
45094 1999 XX_{53}	14.9	X	37.97520	145.78183	176.50186	2.45889	0.0607823	0.22092562	2.7100168	21	10 25.5	18.3
45095 1999 XE_{55}	16.1	X	106.70927	236.96419	88.20114	1.26017	0.1231842	0.27620482	2.3351523	21	—	—
45096 1999 XE_{56}	15.3	X	43.78429	229.83769	246.99005	5.67231	0.0698495	0.23914965	2.5705312	21	1 20.7	18.3
45097 1999 XL_{59}	14.7	X	246.94498	211.18742	70.78830	1.84951	0.1417187	0.24204043	2.5500231	21	1 23.5	18.7
45098 1999 XK_{66}	15.7	X	47.94164	45.06622	254.06076	5.67085	0.1950652	0.26522252	2.3991779	21	11 3.3	18.6
45099 1999 XN_{66}	14.8	X	326.34931	207.95958	252.44418	0.85273	0.0275513	0.18189451	3.0850082	21	12 31.0	19.1
45100 1999 XZ_{66}	15.7	X	209.59181	247.46074	82.31771	5.32705	0.2540389	0.29102197	2.2552024	21	2 12.8	19.6
45101 1999 XA_{68}	15.6	X	199.67841	107.05606	228.77793	5.55589	0.1651497	0.28919688	2.2646807	21	2 5.8	19.1
45102 1999 XN_{69}	15.2	X	350.28771	34.20339	253.73795	6.58108	0.1770807	0.25539351	2.4603458	21	6 19.5	17.1
45103 1999 XJ_{70}	14.2	X	211.03909	1.08700	221.86894	1.42458	0.1052885	0.18156094	3.0887856	21	12 27.6	18.8
45104 1999 XY_{73}	14.6	X	344.11117	181.50925	243.80942	1.40572	0.1999678	0.27087546	2.3656815	21	—	—
45105 1999 XU_{74}	13.8	X	249.60139	77.85503	90.30652	9.93687	0.0502676	0.17936871	3.1139019	21	12 13.3	18.0
45106 1999 XX_{74}	13.8	X	175.34242	21.75272	254.25606	6.41356	0.0240662	0.22967923	2.6407152	21	—	—
45107 1999 XA_{75}	15.2	X	52.00890	241.36304	86.53259	3.16290	0.2236209	0.26935256	2.3745901	21	12 21.3	18.6
45108 1999 XD_{76}	13.6	X	124.82234	0.26897	257.69957	22.01151	0.0776579	0.17497352	3.1658318	21	11 11.1	18.6
45109 1999 XZ_{76}	13.8	X	161.22185	284.57651	259.29398	6.83756	0.0706456	0.16930671	3.2360851	21	9 18.8	18.8
45110 1999 XH_{77}	14.7	X	218.58768	235.44827	256.21433	7.83154	0.0792485	0.21529574	2.7570570	21	9 19.5	18.9
45111 1999 XJ_{77}	13.7	X	275.04038	265.78426	250.96835	8.19869	0.0401478	0.18072262	3.0983303	21	12 31.7	18.1
45112 1999 XG_{78}	14.8	X	230.03289	36.25419	253.78966	12.90776	0.0645988	0.24003431	2.5642115	21	1 15.9	18.8
45113 1999 XZ_{78}	15.3	X	197.19575	198.68756	80.15404	4.91472	0.1305039	0.23466291	2.6031933	21	—	—
45114 1999 XY_{81}	15.5	X	14.29705	214.64137	159.17667	2.15773	0.1156577	0.26845210	2.3798971	21	12 16.6	18.1
45115 1999 XN_{82}	15.7	X	24.52904	100.54131	223.59907	1.33253	0.2176939	0.26592055	2.3949776	21	11 8.9	18.2
45116 1999 XE_{83}	15.4	X	120.53503	235.84550	193.04009	2.54671	0.1662325	0.24186309	2.5512694	21	3 23.1	18.9
45117 1999 XA_{85}	14.8	X	208.12054	224.37563	269.08608	6.56737	0.1650460	0.21209895	2.7846911	21	9 3.7	19.3
45118 1999 XZ_{85}	13.7	X	245.80955	83.47631	107.15610	8.34072	0.0784351	0.17858959	3.1229518	21	12 31.3	18.2
45119 1999 XA_{86}	12.9	X	224.84775	307.79450	277.31043	9.35056	0.1940499	0.17836637	3.1255568	21	—	—
45120 1999 XX_{86}	13.4	X	279.19586	107.91071	285.75297	8.58902	0.2220320	0.21241732	2.7819080	21	7 10.9	17.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45121 1999 XZ_{86}	14.1	X	319.08733	221.85214	285.34055	11.00526	0.1878911	0.22725220	2.6594836	21	—	—
45122 1999 XB_{88}	14.3	X	8.46319	317.08967	258.98992	11.52718	0.1226355	0.24372677	2.5382471	21	4 4.3	17.3
45123 1999 XH_{88}	13.6	X	54.34456	7.65335	269.03928	8.19504	0.1209465	0.21246700	2.7814744	21	9 20.7	17.5
45124 1999 XS_{88}	13.8	X	173.52967	16.47273	265.90753	6.91104	0.1722388	0.22887914	2.6468657	21	—	—
45125 1999 XA_{89}	15.1	X	220.84897	213.31225	110.85043	9.65218	0.1788653	0.24170256	2.5523989	21	2 20.8	19.3
45126 1999 XB_{89}	14.2	X	315.94815	325.77286	261.15755	9.30462	0.0483003	0.19290419	2.9664812	21	2 16.0	18.4
45127 1999 XS_{89}	14.1	X	304.95499	71.24730	103.13930	11.92399	0.0958493	0.18407734	3.0605712	21	—	—
45128 1999 XC_{91}	15.5	X	337.53739	196.28571	198.55112	0.49935	0.1799129	0.26530182	2.3986998	21	11 16.6	17.3
45129 1999 XJ_{91}	14.1	X	205.71623	129.71933	304.50871	0.99943	0.0612470	0.20569750	2.8421699	21	6 27.5	18.1
45130 1999 XQ_{91}	14.0	X	294.38660	197.30789	138.94721	2.54306	0.2041465	0.25197359	2.4825578	21	5 16.2	17.0
45131 1999 XE_{92}	14.5	X	78.60655	83.10984	264.75592	13.85817	0.1719612	0.22792585	2.6542408	21	—	—
45132 1999 XJ_{93}	14.3	X	55.89487	208.44269	278.53073	11.73572	0.2505683	0.23731222	2.5837827	21	3 8.2	16.8
45133 1999 XM_{93}	14.5	X	51.51234	81.89582	304.87458	3.18766	0.1216284	0.22674465	2.6634509	21	—	—
45134 1999 XN_{93}	13.8	X	34.36444	234.10236	101.10669	11.55918	0.2249392	0.21887089	2.7269513	21	12 1.9	17.4
45135 1999 XN_{94}	14.4	X	178.97020	282.59804	111.03280	15.44530	0.1709594	0.24369249	2.5384851	21	4 14.8	18.8
45136 1999 XO_{94}	13.8	X	288.85180	40.62660	113.45418	17.75777	0.1710227	0.17778564	3.1323595	21	—	—
45137 1999 XH_{96}	15.1	X	139.68754	110.85847	275.83776	4.06192	0.1798377	0.28774831	2.2722749	21	2 12.3	18.2
45138 1999 XC_{97}	15.5	X	133.76746	279.83317	59.96588	4.89068	0.1996087	0.28152771	2.3056247	21	—	—
45139 1999 XP_{97}	13.6	X	32.81705	227.81808	66.12802	10.19159	0.1291134	0.21505796	2.7590889	21	9 24.5	17.1
45140 1999 XW_{98}	14.3	X	228.91121	237.50377	263.29687	12.28570	0.1031039	0.21797697	2.7344017	21	10 9.5	18.5
45141 1999 XZ_{100}	15.2	X	304.64835	110.05279	283.07539	7.87292	0.2352531	0.26220698	2.4175375	21	8 16.7	17.5
45142 1999 XJ_{102}	15.7	X	15.96911	78.17232	301.28920	1.32726	0.2237092	0.27036593	2.3686528	21	—	—
45143 1999 XO_{103}	14.7	X	276.25035	34.06723	33.64509	2.18027	0.0785926	0.21370900	2.7706873	21	9 14.0	18.2
45144 1999 XA_{104}	14.7	X	312.59911	210.89928	301.09641	5.34213	0.0464052	0.23180604	2.6245381	21	—	—
45145 1999 XN_{105}	14.5	X	305.38234	359.81235	40.51297	6.22123	0.1664798	0.26373085	2.4082159	21	9 17.4	16.7
45146 1999 XC_{106}	15.2	X	301.52211	163.73577	249.98546	0.40077	0.1812092	0.26228846	2.4170368	21	9 24.5	17.2
45147 1999 XA_{108}	15.7	X	167.59551	225.31873	68.83759	7.23400	0.2049343	0.28292129	2.2980473	21	—	—
45148 1999 XD_{109}	15.0	X	350.90016	54.50098	159.54668	2.81504	0.0794621	0.24682243	2.5169792	21	3 11.2	17.8
45149 1999 XN_{110}	15.0	X	218.61502	15.63903	283.04518	6.21110	0.1393575	0.28958418	2.2626610	21	1 9.3	18.3
45150 1999 XP_{110}	14.0	X	196.21455	287.06504	250.90169	11.14863	0.1216967	0.22255196	2.6967981	21	10 21.5	18.3
45151 1999 XB_{111}	14.7	X	69.34321	270.31251	98.18670	6.33860	0.0878918	0.27718227	2.3296593	21	—	—
45152 1999 XO_{112}	14.6	X	239.04923	285.17565	331.74806	22.45876	0.2022036	0.28768510	2.2726077	21	—	—
45153 1999 XD_{113}	13.5	X	338.29590	255.31368	269.13164	23.54827	0.2168566	0.28270929	2.2991960	21	—	—
45154 1999 XL_{113}	14.3	X	335.64507	212.91330	332.11044	12.82175	0.1066703	0.24098883	2.5574360	21	1 8.4	17.7
45155 1999 XW_{113}	14.1	X	23.52807	284.26919	327.14291	12.25332	0.1640047	0.25716511	2.4490333	21	7 9.8	16.5
45156 1999 XV_{114}	13.3	X	199.30627	234.60035	322.44076	11.91682	0.1033501	0.22501024	2.6771201	21	11 18.3	17.6
45157 1999 XA_{117}	14.9	X	358.38317	147.47524	269.95797	5.72587	0.1107006	0.27367521	2.3495196	21	—	—
45158 1999 XJ_{117}	15.9	X	196.48697	352.49329	20.30591	5.60508	0.2531999	0.29523877	2.2336774	21	3 26.0	19.8
45159 1999 XQ_{119}	15.1	X	194.46465	187.89560	291.88070	5.19491	0.1154114	0.25874279	2.4390678	21	8 10.9	18.8
45160 1999 XS_{123}	15.2	X	92.33376	40.86867	326.17591	6.45198	0.1516426	0.28051850	2.3111513	21	—	—
45161 1999 XX_{123}	15.4	X	184.41792	356.83595	272.96571	11.72568	0.1376809	0.27963627	2.3160098	21	—	—
45162 1999 XX_{124}	14.7	X	153.37732	12.43721	269.23394	9.15820	0.0114934	0.27581791	2.3373356	21	—	—
45163 1999 XE_{127}	14.3	X	64.70025	326.49563	4.93560	6.45105	0.1121656	0.27353362	2.3503303	21	12 27.4	17.6
45164 1999 XK_{127}	15.8	X	357.84133	187.21645	163.00363	9.15862	0.3513943	0.26899177	2.3767129	21	11 24.7	17.5
45165 1999 XS_{128}	14.4	X	132.61818	30.26206	300.84610	6.74860	0.1732189	0.23434014	2.6055831	21	—	—
45166 1999 XZ_{128}	16.1	X	223.95758	358.42860	350.58315	5.29973	0.2014148	0.29500793	2.2348425	21	3 17.3	19.5
45167 1999 XG_{129}	15.0	X	119.55550	330.55770	337.05853	6.65346	0.0575608	0.27444331	2.3451337	21	—	—
45168 1999 XG_{130}	16.0	X	49.71220	33.89868	324.03500	5.59689	0.1413061	0.27249687	2.3562880	21	—	—
45169 1999 XQ_{132}	14.3	X	296.82713	195.64715	296.90562	13.40222	0.0813459	0.27136382	2.3628424	21	—	—
45170 1999 XF_{133}	14.2	X	159.41981	297.23248	331.80276	11.21943	0.2144236	0.22515453	2.6759763	21	—	—
45171 1999 XB_{134}	14.4	X	232.13128	181.05544	305.51118	16.46716	0.2178465	0.21448560	2.7639952	21	9 9.1	19.1
45172 1999 XG_{134}	14.0	X	1.90095	110.97489	299.01793	23.67376	0.1617796	0.26999898	2.3707984	21	—	—
45173 1999 XU_{136}	15.2	X	314.49837	286.80930	123.97905	5.86404	0.2014323	0.26673265	2.3901139	21	10 21.2	17.1
45174 1999 XO_{137}	15.5	X	158.56296	182.31503	149.05025	8.63560	0.1949884	0.28503169	2.2866899	21	—	—
45175 1999 XB_{140}	15.9	X	34.19139	282.67622	112.00777	2.80848	0.2390482	0.27322730	2.3520867	21	—	—
45176 1999 XQ_{140}	15.6	X	154.78673	220.86007	108.73538	6.03629	0.2566331	0.23338154	2.6127131	21	1 6.3	19.6
45177 1999 XS_{140}	14.0	X	235.62330	77.13665	113.12102	3.86211	0.1393498	0.17626316	3.1503708	21	12 10.9	18.7
45178 1999 XW_{143}	15.6	X	0.08811	77.27805	280.47263	4.35464	0.2223061	0.26516500	2.3995248	21	11 12.5	17.5
45179 1999 XQ_{144}	14.3	X	31.33058	12.68824	277.36175	13.49350	0.0570230	0.25991931	2.4317020	21	8 28.3	17.5
45180 1999 XK_{145}	15.4	X	338.04560	34.05301	227.94231	5.70970	0.1189164	0.25287799	2.4766352	21	4 20.6	18.0
45181 1999 XZ_{146}	15.9	X	161.01242	232.35446	80.62842	4.20255	0.1044072	0.28161179	2.3051658	21	—	—
45182 1999 XC_{147}	15.8	X	61.86825	57.01821	239.99923	1.88187	0.1665284	0.26825448	2.3810658	21	11 15.1	18.9
45183 1999 XG_{153}	15.4	X	358.61405	282.98682	30.05066	2.79109	0.1938478	0.26110625	2.4243270	21	8 25.3	17.1
45184 1999 XL_{155}	15.1	X	80.71385	84.73180	232.50644	8.64025	0.2480650	0.27245772	2.3565137	21	—	—
45185 1999 XM_{157}	15.3	X	98.91369	161.38521	213.39779	3.91453	0.1567513	0.27988758	2.3146232	21	—	—
45186 1999 XK_{158}	15.4	X	211.27984	258.01813	100.34564	7.54808	0.1001938	0.24677463	2.5173043	21	3 27.9	19.3
45187 1999 XY_{158}	14.7	X	47.91220	86.04494	215.60683	4.37986	0.0368235	0.21624840	2.7489538	21	10 6.5	18.3
45188 1999 XK_{159}	14.7	X	149.63315	120.67933	234.09003	6.29388	0.2051282	0.23834898	2.5762846	21	1 24.0	18.8
45189 1999 XC_{160}	13.7	X	304.16607	302.10739	257.18239	13.31555	0.1148941	0.23308381	2.6149375	21	—	—
45190 1999 XN_{161}	15.3	X	75.16964	123.91095	316.32024	2.55733	0.0695591	0.23874354	2.5734455	21	1 21.4	18.3
45191 1999 XU_{163}	13.4	X	226.44708	46.91592	107.86803	17.94144	0.1023841	0.17073495	3.2180128	21	10 31.6	18.5
45192 1999 XW_{163}	14.6	X	92.42289	146.97230	306.66707	10.75615	0.1833602	0.23878291	2.5731626	21	3 16.9	18.0
45193 1999 XD_{165}	14.2	X	159.33375	107.73621	323.25358	12.92276	0.2176751	0.24497681	2.5296051	21	5 2.9	18.7
45194 1999 XJ_{165}	14.4	X	125.98291	111.23414	324.37909	11.98810	0.1707435	0.24016739	2.5632641	21	4 2.0	18.3
45195 1999 XT_{166}	14.4	X	351.76348	30.69915	12.93841	6.89826	0.1196154	0.27082357	2.3659837	21	12 23.2	16.9
45196 1999 XV_{166}	15.3	X	184.03527	83.68777	286.89290	7.17386	0.1044642	0.29164646	2.2519820	21	3 1.9	18.6
45197 1999 XY_{167}	14.3	X	286.74391	96.36838	36.17783	5.89524	0.1154026	0.22529843	2.6748367	21	12 20.4	17.5
45198 1999 XF_{169}	15.4	X	224.89181	76.54838	296.81618	5.99389	0.1768614	0.29637443	2.2279677	21	4 16.3	18.9
45199 1999 XF_{170}	13.8	X	294.34009	277.41733	282.32223	12.63963	0.1353106	0.23316019	2.6143664	21	—	—
45200 1999 XS_{170}	15.0	X	94.67765	118.32080	338.82914	3.82745	0.2199157	0.24140284	2.5545111	21	4 3.7	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45201 1999 XT_{170}	13.6	X	35.60759	202.93236	69.77140	10.09436	0.0629885	0.21005631	2.8027147	21	8 19.7	17.3
45202 1999 XA_{171}	14.6	X	282.96798	20.84455	52.05023	6.39621	0.0641683	0.21623476	2.7490695	21	10 4.6	18.1
45203 1999 XM_{171}	15.1	X	142.12899	143.30302	296.33607	6.36477	0.1674317	0.24524953	2.5277295	21	4 26.9	19.0
45204 1999 XZ_{172}	14.4	X	229.53374	153.39257	307.38375	8.30668	0.1172039	0.21132500	2.7914861	21	8 21.4	18.6
45205 1999 XJ_{173}	13.3	X	294.79063	204.53633	318.87329	9.08737	0.0679819	0.22718263	2.6600266	21	—	—
45206 1999 XK_{174}	14.8	X	340.46325	78.77952	301.18466	7.80317	0.2292602	0.26433601	2.4045390	21	10 28.8	16.6
45207 1999 XH_{175}	14.4	X	155.75375	179.72040	302.17234	13.37693	0.3010505	0.20365931	2.8611011	21	7 12.2	19.6
45208 1999 XQ_{175}	14.6	X	177.20325	68.85423	324.44272	6.39999	0.1759039	0.28998720	2.2605641	21	3 29.5	18.1
45209 1999 XT_{178}	15.5	X	42.32455	330.52971	23.21449	2.76545	0.2551165	0.26925597	2.3751579	21	—	—
45210 1999 XW_{178}	13.8	X	351.52284	293.57054	84.54301	17.91933	0.1161162	0.17108155	3.2136650	21	11 2.1	18.0
45211 1999 XF_{179}	14.6	X	227.74184	54.00453	65.63082	9.34424	0.1029793	0.21204156	2.7851936	21	9 21.1	18.8
45212 1999 XP_{180}	14.2	X	119.73021	76.40995	357.66551	13.07545	0.1671715	0.23921133	2.5700893	21	3 27.9	17.7
45213 1999 XS_{181}	14.5	X	293.45599	324.37746	280.53149	14.20617	0.1184927	0.24267838	2.5455521	21	1 24.6	18.3
45214 1999 XW_{181}	15.5	X	26.93862	41.12830	354.81960	6.74659	0.1134918	0.27437872	2.3455017	21	—	—
45215 1999 XB_{183}	15.3	X	173.15654	28.34991	316.22123	5.84190	0.2093509	0.28782563	2.2718679	21	1 28.8	18.6
45216 1999 XP_{183}	14.2	X	116.63218	298.93608	303.04666	11.85260	0.1646042	0.21810514	2.7333303	21	10 21.5	18.9
45217 1999 XL_{186}	14.6	X	241.22094	294.39898	285.91658	13.67644	0.1762737	0.22965404	2.6409083	21	—	—
45218 1999 XQ_{186}	14.9	X	235.17958	311.53908	2.52104	6.61043	0.1560150	0.24440792	2.5335289	21	2 20.9	18.9
45219 1999 XE_{187}	14.5	X	59.02471	72.11279	291.81577	22.09824	0.0306320	0.27070366	2.3666823	21	—	—
45220 1999 XK_{188}	14.5	X	125.87820	67.44174	305.41085	6.30106	0.1371618	0.28343149	2.2952887	21	1 3.5	17.2
45221 1999 XQ_{188}	14.6	X	285.39422	149.75514	309.43978	6.85727	0.0645769	0.26695393	2.3887929	21	11 16.4	17.4
45222 1999 XY_{194}	13.5	X	328.60738	146.71287	300.70709	12.72022	0.1286140	0.22460795	2.6803158	21	12 31.7	16.5
45223 1999 XF_{200}	14.7	X	333.69820	10.45441	324.12037	6.21766	0.1652628	0.25907177	2.4370025	21	7 31.0	16.8
45224 1999 XO_{209}	13.7	X	106.28702	180.26093	311.29317	12.95535	0.2763086	0.19998036	2.8960840	21	6 12.2	18.4
45225 1999 XZ_{212}	15.7	X	31.95681	254.45797	141.72190	7.38273	0.1180563	0.27487203	2.3426947	21	—	—
45226 1999 XG_{213}	15.5	X	129.20525	205.26077	142.07980	7.79734	0.1363584	0.28110355	2.3079435	21	—	—
45227 1999 XH_{213}	15.3	X	99.03252	240.86192	182.94607	7.63923	0.0974620	0.28528089	2.2853581	21	1 25.3	18.0
45228 1999 XJ_{214}	15.1	X	145.09851	133.92122	221.32606	6.70701	0.2053826	0.23810542	2.5780412	21	1 20.2	19.0
45229 1999 XS_{214}	14.8	X	332.69277	297.71001	3.45611	6.13273	0.1290429	0.25583205	2.4575333	21	6 7.3	17.4
45230 1999 XV_{214}	15.5	X	252.18959	321.49304	127.97929	6.58923	0.1874178	0.25995711	2.4314663	21	8 30.0	18.8
45231 1999 XT_{215}	14.6	X	291.32087	189.25858	234.00474	9.47671	0.1025444	0.21490793	2.7603729	21	9 21.7	18.3
45232 1999 XZ_{215}	14.3	X	115.71639	44.31448	283.01718	10.67730	0.2026736	0.22816984	2.6523483	21	—	—
45233 1999 XK_{216}	14.8	X	300.91375	287.07877	105.08525	7.25309	0.0509834	0.21238815	2.7821627	21	9 7.5	18.4
45234 1999 XA_{228}	14.7	X	260.12670	350.79197	91.69357	7.23936	0.1123146	0.26549516	2.3975351	21	9 14.6	17.7
45235 1999 XD_{228}	14.2	X	122.46880	288.59325	99.01916	11.38814	0.0952176	0.18998214	2.9968214	21	2 2.0	18.5
45236 1999 XP_{229}	15.2	X	110.25941	1.51960	2.65769	7.23714	0.1233148	0.28220041	2.3019592	21	—	—
45237 1999 XV_{229}	15.7	X	118.60233	48.05521	337.10877	6.69992	0.1200080	0.28549211	2.2842307	21	1 7.4	18.2
45238 1999 XM_{230}	14.8	X	322.49069	295.54255	330.26939	5.35692	0.1607624	0.29796453	2.2200342	21	3 16.7	17.4
45239 1999 XV_{231}	14.5	X	300.99126	341.36467	78.22134	10.09123	0.1396399	0.21419758	2.7664724	21	10 6.8	17.9
45240 1999 XL_{233}	14.4	X	196.19207	130.74434	146.31515	14.35168	0.1648750	0.23563484	2.5960301	21	—	—
45241 1999 XE_{238}	15.8	X	323.37712	164.85473	220.52878	1.84619	0.2191618	0.26263752	2.4148947	21	9 23.5	17.2
45242 1999 XT_{241}	15.9	X	8.19466	181.38142	202.42870	6.04393	0.1348928	0.27096345	2.3651694	21	12 24.2	18.5
45243 1999 XB_{242}	14.9	X	302.01793	314.81007	280.32637	7.96899	0.0469783	0.24257766	2.5462567	21	2 2.1	18.4
45244 1999 XC_{242}	15.1	X	7.70135	163.22452	338.72592	5.33385	0.0847693	0.23781334	2.5801517	21	—	—
45245 1999 XN_{242}	14.1	X	280.59637	170.05831	222.54334	16.16434	0.0295813	0.20893791	2.8127074	21	8 4.0	18.3
45246 1999 XF_{245}	15.4	X	12.12875	337.75127	149.05615	7.62816	0.0120700	0.23679860	2.5875175	21	—	—
45247 1999 XY_{245}	15.7	X	90.38254	174.15359	162.38857	8.00617	0.1370329	0.27507611	2.3415358	21	—	—
45248 1999 XO_{258}	14.0	X	260.88697	24.43626	196.24523	25.76682	0.2044655	0.23359238	2.6111407	21	—	—
45249 1999 XZ_{259}	15.5	X	158.51974	3.96676	308.80186	2.32622	0.0483751	0.22981861	2.6396474	21	—	—
45250 1999 YJ	14.4	X	51.33922	337.25751	114.65083	32.89854	0.2157103	0.23616525	2.5921416	21	1 7.6	16.5
45251 1999 YN	14.4	X	29.80054	293.90948	121.38991	22.90023	0.3162441	0.27608839	2.3358088	21	—	—
45252 1999 YY_{1}	15.5	X	238.39138	169.67626	59.89945	6.62650	0.2283971	0.23453640	2.6041293	21	—	—
45253 1999 YU_{4}	14.2	X	71.87393	358.72410	295.38638	7.21794	0.1977344	0.21565206	2.7540193	21	11 16.9	18.4
45254 1999 YS_{12}	13.7	X	269.11175	111.83243	99.49304	2.95019	0.1236110	0.18233028	3.0800908	21	—	—
45255 1999 YK_{13}	14.4	X	192.85217	124.85203	91.99099	2.65652	0.1793114	0.17469148	3.1692383	21	11 26.9	19.5
45256 1999 YM_{13}	14.8	X	304.58036	256.56304	132.28332	22.60434	0.2425472	0.26538708	2.3981860	21	8 12.6	17.0
45257 1999 YC_{14}	14.9	X	223.16628	276.98550	138.09778	2.77545	0.0588575	0.20397248	2.8581718	21	6 23.2	19.1
45258 1999 YG_{18}	14.1	X	123.32411	230.56761	175.53578	24.42170	0.1701914	0.24234840	2.5478623	21	2 23.9	17.9
45259 2000 AF_{1}	14.4	X	249.33351	191.08496	140.77990	2.74196	0.1131978	0.19606134	2.9345493	21	4 4.8	18.9
45260 2000 AY_{1}	14.5	X	146.27836	302.96830	121.58101	12.96101	0.0367510	0.19536816	2.9414865	21	4 12.4	18.9
45261 Decoen	14.7	X	263.11024	259.64238	116.78388	7.29611	0.1913207	0.25355127	2.4722489	21	6 3.5	18.4
45262 2000 AG_{2}	15.6	X	316.06225	247.17658	151.72711	2.78368	0.1986420	0.26309923	2.4120686	21	10 2.0	17.5
45263 2000 AD_{5}	13.5	X	224.08422	7.64069	302.91075	12.33124	0.1709805	0.23768657	2.5810690	21	2 4.2	17.8
45264 2000 AL_{5}	15.2	X	39.81674	115.75390	304.84544	3.38042	0.0891203	0.22935956	2.6431683	21	—	—
45265 2000 AY_{5}	14.4	X	251.56704	204.07720	123.33810	2.85346	0.0653960	0.19572929	2.9378672	21	4 6.7	18.6
45266 2000 AK_{6}	14.4	X	256.76616	334.47189	342.98620	1.24371	0.0708158	0.19657743	2.9294108	21	3 28.9	18.5
45267 2000 AK_{7}	15.8	X	214.98950	7.33639	62.82704	7.15282	0.1118529	0.25429276	2.4674407	21	6 29.2	19.4
45268 2000 AM_{8}	15.4	X	166.18394	320.74070	18.47209	5.37316	0.1152792	0.23672383	2.5880623	21	1 16.3	19.2
45269 2000 AR_{8}	15.4	X	328.37531	26.61571	327.88184	5.86407	0.1465629	0.26131469	2.4230377	21	8 21.9	17.6
45270 2000 AT_{8}	14.6	X	57.50619	258.64223	53.99196	7.46873	0.1207923	0.26638119	2.3922157	21	11 23.4	17.5
45271 2000 AO_{10}	14.5	X	42.53774	239.90601	278.54999	12.07231	0.1324920	0.24336986	2.5407281	21	3 13.1	17.5
45272 2000 AC_{11}	14.8	X	297.30789	318.96494	289.19594	8.98974	0.0697744	0.24252867	2.5465996	21	2 9.2	18.3
45273 2000 AF_{11}	14.4	X	129.82615	294.18785	269.46591	3.55085	0.0821279	0.21461214	2.7629087	21	9 15.3	18.5
45274 2000 AN_{11}	15.8	X	168.29409	31.37699	57.73040	7.28088	0.1102228	0.25115884	2.4879238	21	6 3.5	19.6
45275 2000 AK_{12}	14.5	X	120.62651	277.55619	284.67486	7.88228	0.0977677	0.21202282	2.7853577	21	9 2.6	18.9
45276 2000 AO_{12}	14.4	X	258.70783	24.73586	59.71284	5.93256	0.0133031	0.21598728	2.7511690	21	9 24.8	18.1
45277 2000 AE_{15}	14.8	X	208.36582	199.46127	273.08831	5.04609	0.0702974	0.25769533	2.4456728	21	8 19.2	18.2
45278 2000 AL_{15}	15.3	X	0.36372	280.99642	64.04117	3.16399	0.1994137	0.26436241	2.4043789	21	10 22.8	17.3
45279 2000 AS_{15}	14.9	X	33.87358	279.91642	84.03902	6.93786	0.2587000	0.27183462	2.3601134	21	—	—
45280 2000 AE_{16}	15.8	X	240.37325	73.22599	322.95984	1.46517	0.1740560	0.25458285	2.4655659	21	6 5.8	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45281 2000 AA_{19}	14.3	X	227.73237	357.14392	262.18973	14.52020	0.0976531	0.23497959	2.6008539	21	—	—
45282 2000 AL_{19}	16.0	X	9.22208	348.61209	19.48656	2.32872	0.1948355	0.26876110	2.3780726	21	12 12.8	18.3
45283 2000 AU_{22}	14.0	X	205.60620	308.05357	282.39664	12.08118	0.1360696	0.22474660	2.6792133	21	—	—
45284 2000 AO_{24}	14.9	X	307.69627	307.18421	98.93849	6.47753	0.0554851	0.21595549	2.7514390	21	10 6.5	18.4
45285 2000 AO_{26}	15.1	X	33.99130	239.08528	77.00465	4.42559	0.1003341	0.21544702	2.7557663	21	10 17.9	18.5
45286 2000 AC_{27}	15.1	X	170.97287	36.92155	319.04419	3.63278	0.3101727	0.24142449	2.5543584	21	2 20.8	19.7
45287 2000 AB_{29}	14.1	X	18.05559	4.69730	315.78499	6.33335	0.2093128	0.26027201	2.4295047	21	10 16.9	16.5
45288 2000 AP_{29}	13.8	X	283.78308	94.32963	93.72350	10.84410	0.0622456	0.18273127	3.0755831	21	—	—
45289 2000 AY_{29}	15.0	X	272.33783	65.94479	335.54817	4.07781	0.0541970	0.20974996	2.8054431	21	8 7.8	18.7
45290 2000 AG_{33}	14.2	X	294.06568	168.32507	321.97325	12.01748	0.1205557	0.22268989	2.6956844	21	12 29.9	17.5
45291 2000 AS_{33}	15.0	X	5.37945	42.15634	313.22066	8.77006	0.2382377	0.26359989	2.4090135	21	11 20.8	17.4
45292 2000 AX_{34}	14.2	X	91.60795	66.03593	26.45736	3.44566	0.0806958	0.19213650	2.9743778	21	3 12.6	18.2
45293 2000 AA_{35}	14.7	X	348.27911	58.27537	325.01162	11.91360	0.1133558	0.21719629	2.7409500	21	10 29.5	18.1
45294 2000 AF_{37}	15.5	X	144.88881	349.82026	304.14364	1.69386	0.0672485	0.22583421	2.6706044	21	—	—
45295 2000 AN_{37}	15.0	X	166.87873	11.51709	321.70847	3.37485	0.1042899	0.23447237	2.6046034	21	1 8.1	18.7
45296 2000 AZ_{37}	15.1	X	65.39521	15.80425	2.11007	1.81805	0.0997863	0.22702536	2.6612549	21	—	—
45297 2000 AN_{38}	15.8	X	68.19930	30.82602	346.97651	1.51758	0.2389189	0.27504871	2.3416913	21	—	—
45298 Williamon	14.8	X	283.58202	20.48061	167.82953	10.06008	0.1594260	0.18252803	3.0778658	21	—	—
45299 Stivell	15.7	X	175.39228	308.04638	58.14275	4.83250	0.1878491	0.23967590	2.5667671	21	3 4.9	19.9
45300 Thewrewk	13.1	X	153.63505	65.05045	263.38155	10.24666	0.0791261	0.18044845	3.1014679	21	—	—
45301 2000 AW_{45}	14.2	X	346.80835	325.93787	98.58367	10.46298	0.0663357	0.17858171	3.1230437	21	12 15.2	18.2
45302 2000 AX_{46}	15.2	X	303.09472	359.97147	15.38205	2.65089	0.2007669	0.25697228	2.4502583	21	7 27.1	17.6
45303 2000 AP_{47}	14.3	X	204.66745	46.42035	332.10352	1.31955	0.1074751	0.19689756	2.9262347	21	4 15.3	19.0
45304 2000 AQ_{47}	14.7	X	323.23290	258.38268	115.58218	12.77862	0.2749280	0.25993003	2.4316351	21	8 31.3	16.4
45305 Paulscherrer	15.2	X	122.26754	90.10398	286.91608	14.10950	0.1331444	0.23447609	2.6045759	21	1 13.9	18.7
45306 2000 AC_{50}	13.7	X	266.16385	207.38147	317.60432	4.33994	0.1427606	0.17572908	3.1567507	21	12 16.2	17.9
45307 2000 AO_{50}	13.2	X	219.39386	163.80707	137.83074	10.79500	0.0739274	0.18635954	3.0355330	21	1 30.3	17.8
45308 2000 AR_{53}	15.1	X	72.43642	265.91280	113.89079	10.07249	0.2299294	0.27579878	2.3374437	21	—	—
45309 2000 AO_{54}	15.5	X	312.72173	283.06488	96.71566	3.16182	0.2173513	0.26005033	2.4308852	21	8 20.4	17.5
45310 2000 AX_{55}	15.0	X	221.49219	298.55930	71.48080	1.73014	0.2133761	0.24692791	2.5162624	21	4 14.9	19.3
45311 2000 AK_{56}	14.6	X	217.58962	287.32864	110.35535	7.75476	0.0724703	0.20187780	2.8779087	21	5 26.0	18.9
45312 2000 AE_{57}	14.2	X	107.13916	231.73301	121.50403	14.83998	0.1356647	0.18209806	3.0827089	21	—	—
45313 2000 AU_{59}	14.9	X	83.46590	303.74636	101.83045	3.70155	0.1981110	0.23288210	2.6164472	21	1 5.6	17.7
45314 2000 AP_{60}	14.7	X	31.85855	85.67011	304.10673	6.60700	0.2000720	0.27011925	2.3700947	21	—	—
45315 2000 AJ_{61}	15.2	X	337.18752	342.16359	46.90698	3.23684	0.1945769	0.26309544	2.4120918	21	11 6.7	16.9
45316 2000 AR_{61}	14.5	X	127.31601	10.48490	109.44641	6.99943	0.0436578	0.19905296	2.9050723	21	5 25.9	18.7
45317 2000 AC_{63}	13.8	X	73.18891	288.58025	106.66825	12.52777	0.1460237	0.18314169	3.0709865	21	—	—
45318 2000 AG_{63}	14.0	X	315.87132	256.18179	335.29278	8.05429	0.0380529	0.19032767	2.9931933	21	2 27.4	18.0
45319 2000 AQ_{63}	14.1	X	102.28063	8.39073	324.60447	13.04742	0.1602644	0.22354304	2.6888214	21	—	—
45320 2000 AT_{63}	14.4	X	169.66307	93.88659	311.73685	11.78553	0.1967004	0.24355202	2.5394610	21	4 8.6	18.8
45321 2000 AD_{66}	15.3	X	114.33937	343.78986	58.83654	0.57424	0.1906613	0.28122895	2.3072573	21	2 6.0	17.7
45322 2000 AT_{67}	14.5	X	1.15388	263.92238	97.28719	6.53663	0.0984671	0.21405151	2.7677308	21	10 28.3	17.8
45323 2000 AF_{68}	14.5	X	239.91689	264.90180	163.37637	7.24469	0.0957940	0.26123366	2.4235387	21	7 26.6	17.8
45324 2000 AG_{69}	15.4	X	36.46175	274.44102	113.94088	7.55359	0.1068522	0.27398052	2.3477738	21	—	—
45325 2000 AD_{70}	14.7	X	305.79256	306.25504	177.76016	3.63075	0.1810804	0.22598254	2.6694356	21	—	—
45326 2000 AE_{72}	15.5	X	356.09700	45.97843	107.94288	2.80937	0.0529005	0.23635049	2.5907870	21	1 2.4	18.7
45327 2000 AE_{74}	14.5	X	115.44245	255.03633	124.78301	8.56372	0.1278179	0.28240220	2.3008625	21	—	—
45328 2000 AM_{74}	15.4	X	328.08022	259.86042	118.80637	7.26220	0.2179031	0.26453696	2.4033212	21	9 30.8	17.1
45329 2000 AX_{74}	14.6	X	305.48418	218.90584	150.44567	5.12301	0.1647934	0.25986362	2.4320494	21	7 26.9	17.0
45330 2000 AN_{76}	15.1	X	116.16617	300.95387	133.14464	5.21371	0.1769463	0.24227094	2.5484053	21	3 28.5	18.6
45331 2000 AZ_{76}	14.8	X	345.06439	174.23868	253.73780	4.47295	0.0443991	0.22416947	2.6838099	21	12 26.0	18.1
45332 2000 AM_{79}	14.9	X	130.10118	123.16522	227.28839	5.50580	0.1741105	0.27981741	2.3150101	21	—	—
45333 2000 AR_{81}	14.1	X	199.78969	22.77256	263.56671	10.77971	0.2213648	0.23395337	2.6084540	21	—	—
45334 2000 AX_{81}	14.6	X	209.60416	251.74302	161.52962	2.17769	0.0143309	0.20407761	2.8571901	21	6 7.7	18.5
45335 2000 AA_{83}	15.3	X	223.70781	189.55330	164.81326	4.65190	0.1613017	0.24589034	2.5233359	21	3 30.6	19.2
45336 2000 AC_{83}	14.8	X	183.58043	252.41185	253.82151	8.07239	0.0997162	0.21063006	2.7976227	21	8 28.9	19.3
45337 2000 AK_{83}	15.8	X	276.75634	169.18746	219.78671	1.95207	0.1850434	0.25722346	2.4486629	21	7 7.1	18.8
45338 2000 AT_{85}	13.7	X	272.35112	84.17989	127.08111	15.54225	0.0535733	0.18351090	3.0668661	21	—	—
45339 2000 AV_{85}	15.0	X	101.04326	303.24164	133.50035	5.12583	0.2252561	0.23934247	2.5691505	21	3 20.4	18.2
45340 2000 AG_{86}	14.2	X	58.55080	178.22455	119.79271	10.44893	0.1406654	0.21430807	2.7655214	21	11 5.0	18.2
45341 2000 AX_{86}	14.6	X	352.44608	93.59178	143.54599	6.73699	0.0335635	0.19730616	2.9221933	21	4 26.9	18.5
45342 2000 AP_{87}	14.5	X	300.97667	16.41278	188.09482	1.13437	0.0778114	0.18571051	3.0426014	21	1 3.0	18.9
45343 2000 AJ_{88}	15.3	X	50.43098	249.71110	148.46205	4.16417	0.1083567	0.22696345	2.6617388	21	—	—
45344 2000 AK_{90}	13.9	X	203.63652	199.61901	131.87503	11.41955	0.1067974	0.19164127	2.9794998	21	2 19.3	18.5
45345 2000 AD_{91}	14.4	X	296.41197	1.88862	152.39201	1.87125	0.0405180	0.17919818	3.1158771	21	—	—
45346 2000 AL_{91}	14.0	X	319.58012	191.87314	335.27315	6.76203	0.0628724	0.18252042	3.0779513	21	—	—
45347 2000 AS_{91}	14.0	X	151.21312	291.90359	298.58156	6.46139	0.0302431	0.17033065	3.2231030	21	11 3.4	18.8
45348 2000 AZ_{91}	15.1	X	128.15900	248.23348	128.76640	12.69882	0.1859785	0.23430012	2.6058798	21	1 29.1	18.6
45349 2000 AP_{93}	15.5	X	131.14742	293.79234	106.23756	4.23356	0.1711332	0.29050504	2.2578769	21	2 21.2	18.3
45350 2000 AD_{95}	13.6	X	1.90154	183.96372	314.30165	7.48023	0.0907260	0.18451912	3.0556842	21	—	—
45351 2000 AF_{96}	14.3	X	288.97580	272.59394	135.10331	9.85593	0.1608149	0.21055102	2.7983228	21	8 23.5	17.9
45352 2000 AC_{97}	13.5	X	59.02099	284.14775	130.46784	12.03591	0.1864325	0.22796715	2.6539202	21	—	—
45353 2000 AZ_{98}	14.8	X	252.01724	346.04156	105.40546	3.52703	0.1344408	0.26419964	2.4053664	21	9 9.9	17.9
45354 2000 AS_{99}	14.7	X	69.51208	251.81139	97.85797	7.10137	0.1413646	0.27661144	2.3328633	21	—	—
45355 2000 AF_{100}	14.7	X	310.93403	7.57436	137.45278	6.12460	0.0135807	0.27911306	2.3189032	21	—	—
45356 2000 AA_{102}	15.2	X	25.69771	263.07047	106.62823	6.86544	0.1664991	0.27244160	2.3566067	21	—	—
45357 2000 AC_{102}	15.6	X	2.45932	220.56574	136.93974	5.98876	0.2560781	0.26938121	2.3744217	21	11 27.3	17.6
45358 2000 AM_{102}	15.6	X	244.08493	181.91930	198.51918	6.05238	0.1994620	0.30130286	2.2036057	21	5 16.6	18.8
45359 2000 AN_{102}	15.1	X	350.54195	269.24694	105.29147	10.65431	0.1390754	0.26792673	2.3830072	21	11 14.0	17.5
45360 2000 AW_{102}	14.6	X	27.88611	174.83188	104.28698	7.11211	0.0996683	0.25964822	2.4333943	21	8 22.6	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45361 2000 AZ_{102}	15.0	X	0.13932	286.32899	108.92560	7.22887	0.1352580	0.27091554	2.3654482	21	12 27.7	17.4
45362 2000 AH_{103}	14.1	X	52.11719	271.25720	213.08092	8.21821	0.0858458	0.19547699	2.9403946	21	2 21.4	18.0
45363 2000 AF_{104}	13.8	X	118.41724	297.91865	239.40160	16.62637	0.1106662	0.20858804	2.8158517	21	7 28.8	18.3
45364 2000 AW_{104}	16.0	X	24.49537	170.85019	209.95717	6.05349	0.1217182	0.27164560	2.3612081	21	—	—
45365 2000 AM_{106}	14.5	X	46.15025	243.08777	249.67679	13.79433	0.0374245	0.23948167	2.5681548	21	2 8.7	18.0
45366 2000 AN_{107}	13.0	X	288.88861	56.44755	131.51724	12.21228	0.0477776	0.18504801	3.0498590	21	—	—
45367 2000 AG_{108}	14.7	X	354.26205	237.57897	115.33976	10.23745	0.1968160	0.21732640	2.7398559	21	10 15.1	17.5
45368 2000 AU_{109}	14.9	X	359.30097	89.77117	245.35151	9.48923	0.2529329	0.26198095	2.4189278	21	10 4.9	16.7
45369 2000 AM_{110}	15.3	X	161.51389	133.37802	197.72283	2.62760	0.1889503	0.28061225	2.3106365	21	—	—
45370 2000 AA_{111}	14.2	X	270.06424	107.90036	182.32620	1.74785	0.0811284	0.19525364	2.9426366	21	3 9.7	18.4
45371 2000 AA_{112}	14.2	X	38.30274	314.13143	122.81257	12.59882	0.0409121	0.23044133	2.6348898	21	—	—
45372 2000 AT_{113}	14.4	X	324.77161	201.11777	266.33767	12.71818	0.0954622	0.22460067	2.6803737	21	—	—
45373 2000 AW_{113}	14.5	X	100.96149	219.87082	254.32328	8.71948	0.0387719	0.24254951	2.5464537	21	4 4.4	18.0
45374 2000 AL_{114}	14.6	X	52.54602	242.29720	133.40977	12.39614	0.2091752	0.22684277	2.6626828	21	—	—
45375 2000 AZ_{115}	14.8	X	41.30320	76.29794	275.97577	11.91151	0.2831300	0.26878781	2.3779150	21	—	—
45376 2000 AP_{117}	15.1	X	146.55465	134.19047	256.84641	5.70812	0.1469815	0.23917165	2.5703736	21	2 27.3	18.9
45377 2000 AX_{117}	15.5	X	174.88411	239.03473	138.95313	11.46952	0.1479479	0.24115682	2.5562482	21	3 16.9	19.6
45378 2000 AD_{118}	13.0	X	195.81036	333.64083	246.89612	8.29979	0.0514008	0.17517844	3.1633624	21	12 12.7	17.5
45379 2000 AT_{120}	14.5	X	60.40426	173.91838	211.18266	5.03705	0.1697664	0.22724689	2.6595251	21	—	—
45380 2000 AW_{120}	13.9	X	55.03358	231.95495	155.62358	11.15902	0.0674203	0.17958569	3.1113932	21	—	—
45381 2000 AN_{122}	13.0	X	226.63410	53.17524	178.96266	5.17017	0.1131605	0.17989584	3.1078160	21	—	—
45382 2000 AV_{123}	14.2	X	308.52360	88.15411	160.61085	10.55107	0.0465191	0.19217103	2.9740215	21	3 11.0	18.2
45383 2000 AP_{124}	15.5	X	92.44700	141.96275	257.44228	2.63240	0.1880549	0.27897709	2.3196566	21	—	—
45384 2000 AB_{125}	14.5	X	216.61588	208.60393	216.13670	5.35362	0.0546943	0.20396191	2.8582706	21	6 27.9	18.6
45385 2000 AF_{125}	14.4	X	156.29881	67.71466	279.43736	11.53815	0.1981201	0.23327691	2.6134942	21	1 21.4	18.5
45386 2000 AO_{125}	13.9	X	248.35457	314.88823	294.56355	9.16159	0.0480179	0.18411418	3.0601630	21	1 1.8	18.4
45387 2000 AW_{125}	13.6	X	64.50277	207.54015	139.00775	8.56239	0.0380603	0.22032194	2.7149649	21	12 25.5	17.4
45388 2000 AB_{127}	13.7	X	39.96977	202.52864	305.56955	9.65937	0.0549614	0.19075391	2.9887327	21	3 4.2	17.8
45389 2000 AP_{128}	13.5	X	126.29571	323.21153	305.26167	16.20590	0.0609195	0.17000302	3.2272426	21	11 21.9	18.7
45390 2000 AW_{128}	13.4	X	284.86150	351.10547	316.53171	11.05652	0.0071475	0.19509455	2.9442360	21	4 23.6	17.8
45391 2000 AA_{129}	14.6	X	35.42419	231.24673	281.32231	8.04887	0.0310328	0.19124109	2.9836548	21	3 2.4	18.8
45392 2000 AR_{129}	14.1	X	164.09064	346.21182	296.02623	12.63655	0.1539768	0.22281793	2.6946516	21	—	—
45393 2000 AU_{130}	14.8	X	157.42730	245.68701	129.67052	6.58020	0.2899184	0.24300583	2.5432649	21	3 6.4	19.2
45394 2000 AO_{132}	14.1	X	277.23676	176.24958	3.03971	5.56232	0.0768700	0.17983405	3.1085279	21	—	—
45395 2000 AQ_{134}	14.8	X	189.62492	276.60790	349.03964	3.84251	0.0483927	0.22796038	2.6539728	21	—	—
45396 2000 AS_{138}	14.4	X	17.51693	40.57784	83.63249	6.07706	0.1580529	0.23869757	2.5737758	21	—	—
45397 2000 AW_{138}	14.6	X	158.97076	295.20893	74.19224	14.47610	0.0843555	0.24484507	2.5305124	21	2 14.4	18.4
45398 2000 AH_{139}	14.6	X	41.28111	222.09868	185.96643	7.72982	0.0466257	0.23380504	2.6095571	21	—	—
45399 2000 AW_{139}	15.2	X	240.84802	202.36577	137.68022	5.61896	0.1520026	0.29748224	2.2224331	21	3 25.4	18.5
45400 2000 AW_{140}	14.1	X	257.86133	355.65909	211.65940	6.91249	0.1077296	0.17925148	3.1152594	21	—	—
45401 2000 AX_{140}	14.9	X	294.77786	224.72051	199.21203	5.94386	0.2092745	0.26159086	2.4213320	21	9 21.2	17.3
45402 2000 AZ_{140}	14.4	X	210.14150	193.09433	151.15887	14.66886	0.1012204	0.23912125	2.5707348	21	3 7.2	18.2
45403 2000 AL_{141}	13.0	X	295.70524	251.95430	276.95967	11.26503	0.1206080	0.22517619	2.6758046	21	—	—
45404 2000 AP_{141}	14.7	X	188.85842	307.27975	259.24552	6.67161	0.0745037	0.17055256	3.2203066	21	11 15.9	19.6
45405 2000 AY_{141}	14.7	X	86.32973	215.74286	183.62231	4.82708	0.2247675	0.27780045	2.3262019	21	—	—
45406 2000 AG_{142}	14.5	X	353.17968	133.49433	297.96317	12.35013	0.1562213	0.22259045	2.6964872	21	—	—
45407 2000 AJ_{142}	13.9	X	301.36295	322.69220	154.07930	13.14290	0.0985188	0.22028188	2.7152940	21	12 23.8	17.3
45408 2000 AO_{142}	13.2	X	29.15576	253.26174	270.33784	8.70724	0.0364491	0.19012517	2.9953183	21	3 7.4	17.3
45409 2000 AT_{143}	13.7	X	318.63356	301.77419	295.07465	9.67828	0.0600975	0.18986214	2.9980841	21	3 2.6	17.9
45410 2000 AA_{144}	13.3	X	87.76132	153.88474	287.38877	9.12232	0.0893827	0.18784171	3.0195440	21	2 18.9	17.4
45411 2000 AN_{144}	13.5	X	92.47988	96.39535	313.72264	12.10764	0.1479302	0.23046310	2.6347239	21	1 20.9	16.6
45412 2000 AN_{147}	14.7	X	285.05883	242.99732	113.53248	5.16451	0.2222896	0.20999293	2.8032786	21	5 31.1	18.6
45413 2000 AY_{147}	14.9	X	345.67559	215.20745	146.70193	6.73258	0.1456543	0.26180440	2.4200152	21	10 13.5	17.1
45414 2000 AE_{149}	15.3	X	70.98036	180.34001	197.88191	7.93836	0.1297235	0.27661556	2.3328401	21	—	—
45415 2000 AN_{149}	14.3	X	234.77418	129.03563	138.26007	12.93870	0.1508711	0.23476413	2.6024450	21	—	—
45416 2000 AX_{151}	15.5	X	238.46353	297.38136	106.88186	6.40089	0.1579711	0.30483435	2.1865535	21	6 15.5	18.4
45417 2000 AZ_{151}	14.8	X	195.70694	259.82925	145.39794	4.80474	0.1152891	0.25480576	2.4641278	21	5 7.9	18.5
45418 2000 AV_{155}	16.1	X	73.06672	196.07079	282.34900	1.21520	0.1174815	0.24131325	2.5551434	21	3 15.5	19.1
45419 2000 AV_{158}	15.1	X	68.37322	141.89263	300.60567	13.03990	0.0552108	0.23451923	2.6042564	21	1 14.5	18.3
45420 2000 AG_{159}	15.0	X	295.83302	351.76022	52.43360	6.15130	0.0382486	0.21262783	2.7800716	21	9 18.0	18.7
45421 2000 AL_{159}	14.2	X	234.30136	353.05957	309.73537	9.88885	0.0378091	0.19102845	2.9858685	21	2 15.9	18.5
45422 2000 AG_{162}	14.4	X	229.99648	297.28486	74.23355	3.09937	0.0354059	0.19889846	2.9065766	21	5 8.8	18.4
45423 2000 AR_{162}	13.3	X	22.07096	108.96289	331.22565	11.99459	0.1378437	0.22527271	2.6750403	21	—	—
45424 2000 AY_{164}	14.9	X	57.45987	189.95069	262.10953	11.26080	0.1153330	0.23393862	2.6085636	21	1 12.1	17.8
45425 2000 AY_{166}	13.8	X	220.47386	345.19223	192.35495	11.55483	0.1354552	0.17253404	3.1956033	21	11 11.5	18.8
45426 2000 AZ_{166}	14.7	X	225.40119	142.55817	213.41386	10.46479	0.2495838	0.24612732	2.5217160	21	3 28.4	19.1
45427 2000 AA_{167}	13.7	X	281.42319	58.30765	169.26471	14.83786	0.1552298	0.18517535	3.0484607	21	—	—
45428 2000 AN_{167}	15.1	X	49.89067	272.71817	166.46719	11.66550	0.1950229	0.23204774	2.6227153	21	—	—
45429 2000 AO_{169}	15.1	X	1.09362	32.81771	113.00411	14.55704	0.0951106	0.23627726	2.5913223	21	—	—
45430 2000 AW_{169}	15.1	X	184.64620	165.66721	136.38499	8.70123	0.1949199	0.23744359	2.5828295	21	—	—
45431 2000 AR_{170}	15.4	X	4.47268	169.37075	181.43663	6.75589	0.1478623	0.26582718	2.3955383	21	11 2.9	17.7
45432 2000 AQ_{172}	15.6	X	23.51247	204.84239	191.70620	6.47743	0.1301444	0.27261628	2.3555999	21	—	—
45433 2000 AA_{173}	15.5	X	283.43421	204.31045	187.29817	6.09325	0.1183538	0.25884161	2.4384470	21	7 30.3	18.5
45434 2000 AX_{173}	15.6	X	1.57370	156.53738	185.82802	7.30201	0.2324514	0.26453070	2.4033591	21	10 26.7	17.3
45435 2000 AF_{174}	15.5	X	142.87509	183.89309	161.36937	7.14351	0.1538651	0.28149342	2.3058119	21	—	—
45436 2000 AD_{176}	14.5	X	202.05481	51.08819	132.32034	13.91934	0.1743244	0.21941049	2.7224785	21	11 6.5	19.1
45437 2000 AF_{177}	14.7	X	312.61215	300.07657	221.12762	10.82474	0.1193132	0.23092828	2.6311845	21	—	—
45438 2000 AJ_{177}	15.1	X	22.16785	178.84754	192.57607	6.46434	0.1174218	0.26924530	2.3752207	21	12 24.9	17.9
45439 2000 AO_{177}	14.4	X	226.81486	315.69686	172.98052	6.78942	0.1956729	0.21456876	2.7632810	21	9 16.7	18.6
45440 2000 AQ_{177}	13.5	X	308.29890	330.39543	243.57535	10.70041	0.1311288	0.23500535	2.6006639	21	1 4.1	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45441 2000 AX_{177}	14.4	X	241.97577	279.23351	184.68836	8.69390	0.1167105	0.21403729	2.7678534	21	9 9.6	18.4
45442 2000 AK_{179}	15.4	X	298.83883	269.45857	224.35697	8.30287	0.0502791	0.22445226	2.6815551	21	—	—
45443 2000 AR_{179}	13.5	X	124.29013	312.61284	257.12983	12.14212	0.1378371	0.20958010	2.8069586	21	9 16.4	18.1
45444 2000 AD_{180}	14.3	X	224.48331	137.93972	239.43384	10.28402	0.1079495	0.24768842	2.5111091	21	4 29.8	18.0
45445 2000 AR_{181}	13.2	X	297.19169	339.97812	254.42792	12.57198	0.1901142	0.18775557	3.0204675	21	1 16.8	17.8
45446 2000 AX_{186}	14.4	X	165.45314	155.20687	178.89740	13.55295	0.0621014	0.23933417	2.5692099	21	—	—
45447 2000 AH_{188}	14.1	X	326.02583	230.90733	179.96471	12.11661	0.0210935	0.22141575	2.7060161	21	11 9.2	17.8
45448 2000 AJ_{188}	14.9	X	71.34799	198.96652	152.30817	11.76367	0.1283680	0.27454559	2.3445513	21	—	—
45449 2000 AQ_{188}	14.7	X	334.08391	285.24349	145.89918	10.90761	0.2299586	0.27048025	2.3679853	21	—	—
45450 2000 AC_{191}	13.7	X	101.28239	145.40161	236.56894	14.34273	0.1412567	0.23385301	2.6092002	21	—	—
45451 2000 AJ_{191}	14.4	X	101.03135	166.88808	222.03648	11.60391	0.2165450	0.23522860	2.5990180	21	1 11.1	17.7
45452 2000 AZ_{191}	15.3	X	336.47164	142.02320	222.80573	10.50573	0.2901612	0.26304823	2.4123804	21	9 17.7	16.6
45453 2000 AB_{193}	13.1	X	348.37333	129.87214	257.48939	20.47779	0.0516919	0.17139776	3.2097111	21	10 26.4	17.7
45454 2000 AC_{193}	14.6	X	7.39606	336.69911	155.94645	16.45281	0.1191669	0.23206925	2.6225533	21	—	—
45455 2000 AB_{195}	13.8	X	354.19349	281.67077	217.80875	8.92561	0.0476451	0.18463582	3.0543965	21	—	—
45456 2000 AD_{195}	13.8	X	276.94517	49.98924	252.51289	12.62083	0.1799906	0.24142488	2.5543557	21	3 9.1	17.9
45457 2000 AL_{195}	14.1	X	130.10978	7.97321	223.11816	11.96559	0.0951229	0.21228879	2.7830308	21	10 21.3	18.4
45458 2000 AZ_{195}	14.6	X	99.74370	212.55721	243.06447	8.08414	0.0426281	0.19290289	2.9664946	21	3 16.6	18.9
45459 2000 AM_{196}	13.8	X	266.97047	243.69318	277.69509	14.48637	0.1359375	0.17559421	3.1583669	21	12 14.2	18.0
45460 2000 AS_{197}	14.1	X	298.71846	153.11425	270.85179	12.97856	0.1445852	0.26091622	2.4255040	21	10 2.3	17.1
45461 2000 AW_{197}	14.0	X	331.43231	135.47114	254.73636	8.70794	0.1521827	0.21518685	2.7579871	21	10 10.5	17.1
45462 2000 AZ_{197}	13.4	X	326.75158	220.07200	283.21099	16.80054	0.1204820	0.18057705	3.0999951	21	—	—
45463 2000 AL_{198}	13.8	X	221.41410	74.05307	160.65221	16.48691	0.0447728	0.17813911	3.1282145	21	—	—
45464 2000 AV_{198}	13.6	X	143.10163	170.20443	187.23989	10.33710	0.0761907	0.18388290	3.0627284	21	1 15.7	18.3
45465 2000 AN_{200}	14.0	X	7.93824	18.97303	134.54927	13.69463	0.1749808	0.23904052	2.5713135	21	1 4.5	16.9
45466 2000 AZ_{201}	13.2	X	63.05280	227.24247	265.91449	8.63872	0.0364971	0.19041604	2.9922672	21	3 14.6	17.5
45467 2000 AK_{203}	13.2	X	86.62888	118.23037	282.77559	10.85266	0.1746340	0.22776834	2.6554643	21	1 2.9	16.1
45468 2000 AL_{203}	12.8	X	359.64592	131.74804	311.71855	21.02233	0.0879382	0.17447055	3.1719132	21	—	—
45469 2000 AY_{203}	13.6	X	177.22997	138.12792	273.57180	8.58564	0.0472758	0.23925041	2.5698095	21	4 20.2	17.4
45470 2000 AZ_{203}	13.6	X	19.47542	217.89306	306.80566	13.94727	0.0706251	0.23275497	2.6173998	21	2 16.0	16.7
45471 2000 AG_{204}	15.0	X	45.51443	192.23868	140.97413	9.57380	0.1595554	0.21891161	2.7266131	21	12 4.1	18.8
45472 2000 AJ_{208}	16.1	X	82.04820	200.64909	114.29163	3.17742	0.2232607	0.27318575	2.3523252	21	—	—
45473 2000 AG_{212}	14.8	X	23.90053	67.74239	307.81816	1.60860	0.1928670	0.21837444	2.7310827	21	—	—
45474 2000 AW_{215}	14.3	X	155.22818	244.90395	179.40485	1.99159	0.1046403	0.19517463	2.9434306	21	4 22.7	18.8
45475 2000 AN_{216}	15.1	X	237.79688	198.23230	73.70439	2.44978	0.1550941	0.24006652	2.5639821	21	1 2.7	19.2
45476 2000 AU_{226}	14.9	X	296.60498	90.11179	286.73509	2.12032	0.1015221	0.20875098	2.8143862	21	7 31.6	18.5
45477 2000 AA_{227}	14.6	X	49.00416	29.57215	311.80091	11.26841	0.1580687	0.21831096	2.7316120	21	12 16.6	18.5
45478 2000 AS_{230}	15.1	X	289.77554	272.64722	138.65122	4.57388	0.0932944	0.21199658	2.7855876	21	9 9.2	18.6
45479 2000 AZ_{231}	14.6	X	345.26137	259.63203	100.55243	6.93913	0.0571066	0.21291304	2.7775883	21	9 30.8	18.1
45480 2000 AH_{233}	14.2	X	14.56004	58.90530	298.81701	6.60296	0.0793441	0.21626992	2.7487715	21	11 6.3	17.7
45481 2000 AK_{233}	13.4	X	89.23859	255.36895	132.41657	11.46983	0.1676006	0.22626231	2.6672347	21	—	—
45482 2000 AU_{233}	15.3	X	73.10947	262.07649	103.25967	7.44072	0.1457782	0.27856526	2.3219422	21	—	—
45483 2000 AP_{235}	14.3	X	150.62691	208.13324	119.04324	6.74880	0.1423204	0.18436630	3.0573726	21	—	—
45484 2000 AV_{235}	14.8	X	338.33108	16.11562	225.16844	1.56337	0.0271666	0.19687711	2.9264374	21	4 10.5	18.7
45485 2000 AS_{236}	13.4	X	17.55364	109.62684	300.11815	12.60840	0.1466008	0.22137680	2.7063335	21	—	—
45486 2000 AF_{237}	13.7	X	242.97743	348.16349	176.79791	12.75549	0.0982332	0.21592731	2.7516783	21	12 2.9	17.7
45487 2000 AR_{237}	13.3	X	103.42241	94.17219	333.35616	12.48892	0.1597443	0.23334710	2.6129701	21	2 27.5	16.5
45488 2000 AD_{238}	15.2	X	22.11964	182.74954	109.15489	4.87645	0.1272619	0.26104102	2.4247309	21	9 4.3	17.6
45489 2000 AW_{239}	13.7	X	178.79382	75.06325	297.52549	14.57339	0.1893127	0.23762435	2.5815196	21	3 6.4	18.3
45490 2000 AV_{240}	14.4	X	307.83992	223.80687	217.51819	21.16644	0.0566675	0.22206143	2.7007681	21	11 20.1	17.9
45491 2000 AB_{241}	14.8	X	20.40835	319.22762	172.03656	14.25750	0.0945514	0.23694902	2.5864223	21	1 3.5	18.1
45492 2000 AD_{241}	14.4	X	14.78510	238.16126	178.57779	14.85610	0.1215752	0.22921130	2.6443079	21	—	—
45493 2000 AE_{241}	13.5	X	339.48091	292.15688	216.75376	9.13509	0.1338843	0.18510265	3.0492589	21	—	—
45494 2000 AT_{242}	14.5	X	339.46989	241.51751	294.54860	0.86365	0.0483041	0.18664872	3.0323968	21	1 20.2	18.5
45495 2000 AF_{243}	13.8	X	113.34786	102.35484	280.53191	13.20225	0.1458919	0.23054609	2.6340916	21	1 12.4	17.2
45496 2000 AO_{245}	13.4	X	114.82761	267.11140	264.12961	8.27669	0.1189689	0.19943894	2.9013229	21	7 22.2	17.8
45497 2000 AB_{248}	13.9	X	9.98944	160.08972	1.77677	14.23182	0.1168852	0.24060512	2.5601543	21	1 31.9	17.0
45498 2000 BH	14.8	X	307.60999	173.82767	285.09369	0.91284	0.0740292	0.22263286	2.6961448	21	12 11.4	18.1
45499 2000 BV_{2}	14.4	X	197.22511	14.08503	302.57441	13.68780	0.1177538	0.23397578	2.6082874	21	1 19.8	18.3
45500 Motegi	14.2	X	326.18406	63.28293	74.31768	2.57925	0.1411498	0.17982559	3.1086254	21	—	—
45501 2000 BQ_{3}	14.3	X	251.45834	338.28319	115.65253	5.64099	0.0706637	0.21030213	2.8005302	21	9 18.1	18.2
45502 2000 BZ_{8}	12.6	X	207.16000	147.04015	84.93709	16.64206	0.0512320	0.17599090	3.1536192	21	—	—
45503 2000 BE_{15}	13.5	X	45.24788	27.58061	90.35008	13.35740	0.0889479	0.18698053	3.0288083	21	2 11.5	17.4
45504 2000 BX_{15}	13.9	X	50.20034	111.67284	321.40801	14.49729	0.1227452	0.23278400	2.6171823	21	—	—
45505 2000 BE_{17}	15.8	X	302.88502	302.61460	101.63312	2.79652	0.2079541	0.26163391	2.4210663	21	9 9.8	18.0
45506 2000 BN_{17}	15.2	X	168.80490	296.11620	83.21772	5.42542	0.1707534	0.24114119	2.5563587	21	3 14.3	19.3
45507 2000 BM_{18}	14.9	X	39.48534	319.44522	89.71170	3.53448	0.1119012	0.22713349	2.6604102	21	—	—
45508 2000 BN_{18}	14.6	X	214.83349	347.21840	94.93816	3.36563	0.0330081	0.20633545	2.8363086	21	7 21.1	18.6
45509 Robertward	14.3	X	81.34993	205.14438	140.48968	11.76652	0.0959890	0.22218922	2.6997324	21	—	—
45510 Kashuba	14.0	X	298.46443	328.49531	304.31522	9.67337	0.0701246	0.19276080	2.9679522	21	3 19.2	18.3
45511 Anneblack	13.7	X	135.73962	14.19600	200.26122	1.19596	0.0872185	0.16474512	3.2955483	21	10 2.6	18.8
45512 Holcomb	14.2	X	10.17188	164.58274	311.26355	8.90830	0.0523201	0.18303257	3.0722069	21	—	—
45513 2000 BR_{23}	13.6	X	356.89737	306.75117	93.43974	28.24696	0.1737288	0.17474333	3.1686114	21	12 9.9	17.4
45514 2000 BV_{23}	14.9	X	120.94335	6.71039	343.73544	14.23182	0.0647402	0.22927440	2.6438228	21	—	—
45515 2000 BF_{25}	13.4	X	171.36798	132.69802	108.46419	2.22376	0.1346190	0.17344878	3.1843579	21	12 7.7	18.5
45516 2000 BE_{28}	14.9	X	175.94359	254.26390	136.46741	13.95412	0.1070204	0.24100684	2.5573086	21	4 2.8	18.9
45517 2000 BE_{31}	14.9	X	71.48712	286.93771	166.41902	2.34992	0.0508486	0.18845552	3.0129839	21	2 10.3	18.9
45518 2000 BO_{33}	14.5	X	318.86927	120.44407	107.47397	3.18301	0.0333821	0.19029926	2.9934912	21	2 28.9	18.5
45519 2000 BS_{33}	14.2	X	196.26462	154.19331	127.99489	18.03244	0.0818451	0.18108551	3.0941896	21	—	—
45520 2000 BS_{35}	14.4	X	224.06716	331.44931	312.18363	11.46570	0.1488813	0.23390203	2.6088356	21	1 6.7	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45521 2000 BP_{39}	14.4	X	149.98938	150.04059	140.82691	1.52351	0.1104466	0.17751305	3.1355653	21	—	—
45522 2000 BP_{47}	14.5	X	295.27595	247.20321	39.66113	2.58225	0.0200551	0.19704885	2.9247367	21	4 14.0	18.6
45523 2000 BU_{47}	14.3	X	113.24703	342.91117	302.82435	0.63242	0.1593393	0.17188481	3.2036450	21	12 8.1	19.4
45524 2000 CL_{2}	13.8	X	183.38293	294.81083	123.81668	12.98181	0.0084842	0.19532104	2.9419595	21	5 16.9	18.1
45525 2000 CC_{4}	14.9	X	195.75349	192.72803	220.80939	2.29061	0.2163947	0.29570799	2.2313139	21	5 14.9	18.6
45526 2000 CG_{4}	15.5	X	333.91597	219.68489	161.96097	2.29334	0.2142736	0.26372953	2.4082240	21	10 18.4	17.0
45527 2000 CN_{5}	14.0	X	290.32924	24.62567	277.84118	16.61335	0.1693015	0.24515324	2.5283913	21	3 21.7	18.0
45528 2000 CF_{9}	14.3	X	124.29545	272.06263	124.93129	10.72620	0.1245456	0.19125415	2.9835190	21	2 18.9	18.6
45529 2000 CJ_{11}	13.9	X	189.90555	23.06900	282.17686	12.73928	0.1614722	0.23112271	2.6297087	21	1 1.6	18.1
45530 2000 CP_{12}	13.9	X	230.63418	139.49352	163.47347	10.05289	0.0629608	0.18973941	2.9993768	21	2 11.6	18.5
45531 2000 CM_{14}	14.7	X	38.26545	91.95350	273.51269	6.66405	0.0762346	0.22010044	2.7167860	21	12 21.7	18.4
45532 2000 CE_{21}	15.4	X	325.58851	209.79468	163.21247	6.47680	0.1463253	0.25793891	2.4441329	21	9 14.8	17.4
45533 2000 CH_{23}	14.0	X	186.86268	41.33489	296.79951	11.47772	0.3051532	0.23517145	2.5994391	21	2 9.4	18.8
45534 2000 CD_{25}	14.3	X	346.04558	219.79948	158.24291	9.82635	0.1704400	0.21515106	2.7582930	21	10 30.0	17.2
45535 2000 CK_{25}	14.6	X	278.19172	122.23861	168.72435	8.75769	0.0370442	0.19262393	2.9693580	21	3 27.5	18.7
45536 2000 CK_{27}	13.5	X	320.41782	125.59488	160.36252	10.32119	0.0526293	0.15162474	3.4830203	21	5 17.6	18.4
45537 2000 CG_{28}	14.1	X	132.66272	250.30049	153.13503	11.97585	0.0727733	0.18941360	3.0028153	21	2 28.9	18.3
45538 2000 CG_{29}	14.4	X	204.08201	208.22071	154.04173	11.57698	0.1306169	0.19319389	2.9635150	21	3 29.2	19.2
45539 2000 CM_{32}	14.7	X	310.44380	111.83183	223.44522	1.24987	0.0740766	0.20422827	2.8557848	21	6 29.4	18.3
45540 2000 CY_{33}	14.5	X	159.01772	248.89552	148.27129	14.22103	0.1633823	0.23796294	2.5790702	21	3 27.4	18.6
45541 2000 CW_{35}	14.3	X	113.44986	76.65899	279.67330	9.11422	0.2981477	0.22993447	2.6387606	21	1 2.5	17.7
45542 2000 CE_{36}	13.9	X	222.43047	276.28327	324.76737	12.08815	0.1439558	0.22216534	2.6999259	21	—	—
45543 2000 CQ_{36}	13.5	X	325.00494	179.08703	161.80956	14.52420	0.1887314	0.20373819	2.8603626	21	7 15.2	16.8
45544 2000 CS_{36}	13.9	X	338.44688	189.25963	288.41524	2.81459	0.1584829	0.17827306	3.1266474	21	—	—
45545 2000 CA_{38}	14.2	X	202.76575	133.84293	132.19528	3.81251	0.1343451	0.17915272	3.1164042	21	—	—
45546 2000 CE_{41}	14.8	X	146.85209	218.43657	146.70468	16.49920	0.0881585	0.18503223	3.0500324	21	1 31.1	19.4
45547 2000 CB_{43}	14.8	X	111.33855	84.28725	297.75861	7.71951	0.1451922	0.23132286	2.6281915	21	1 9.6	18.0
45548 2000 CF_{43}	14.5	X	125.25993	49.91321	285.97340	9.77457	0.0566620	0.22545324	2.6736121	21	—	—
45549 2000 CY_{44}	14.2	X	214.64781	332.75644	224.86239	3.60781	0.0478485	0.21800439	2.7341724	21	12 14.9	17.9
45550 2000 CX_{46}	14.1	X	203.05781	30.54561	198.74236	6.77187	0.1247980	0.17360132	3.1824923	21	12 23.5	19.0
45551 2000 CF_{47}	14.7	X	201.31397	205.79382	179.72806	10.12975	0.3152798	0.24532662	2.5271999	21	4 18.2	19.4
45552 2000 CQ_{47}	13.6	X	116.49782	84.70224	283.52545	8.48231	0.1410627	0.18218089	3.0817744	21	1 8.8	17.8
45553 2000 CO_{48}	14.2	X	185.38438	66.75783	302.26546	13.10728	0.2210604	0.23793835	2.5792479	21	3 9.7	18.8
45554 2000 CX_{48}	14.1	X	231.85882	270.15643	159.60608	15.25243	0.1309659	0.20551806	2.8438240	21	7 14.3	18.7
45555 2000 CF_{50}	14.8	X	324.10283	220.97445	177.29111	8.84517	0.2461373	0.26071339	2.4267619	21	10 18.9	16.2
45556 2000 CM_{51}	13.8	X	297.54120	260.87849	225.45226	4.39880	0.1166343	0.17395565	3.1781693	21	12 16.1	17.8
45557 2000 CV_{51}	14.2	X	182.46199	178.09655	160.24763	7.41839	0.0269510	0.18510743	3.0492063	21	2 1.9	18.7
45558 2000 CR_{52}	13.9	X	229.35154	25.30123	323.19190	9.35139	0.1019217	0.19243313	2.9713204	21	3 31.3	18.6
45559 2000 CB_{53}	13.9	X	359.19292	271.24816	159.62255	13.89078	0.0985747	0.17486454	3.1671470	21	—	—
45560 2000 CW_{53}	14.7	X	232.10323	61.89784	303.68306	12.12006	0.2054503	0.24367762	2.5385884	21	4 12.1	19.2
45561 2000 CA_{56}	14.5	X	358.75223	339.38618	147.23390	2.07001	0.0512337	0.18197429	3.0841064	21	—	—
45562 2000 CD_{56}	14.2	X	235.71413	25.08726	326.27632	12.40179	0.1767141	0.24185154	2.5513506	21	3 30.8	18.5
45563 2000 CS_{56}	13.8	X	112.40482	118.86479	188.94840	0.84687	0.1274076	0.17299311	3.1899473	21	12 30.6	18.9
45564 2000 CV_{56}	14.3	X	124.47641	253.42885	126.54037	10.99007	0.1166282	0.18423689	3.0588040	21	1 28.5	18.6
45565 2000 CD_{57}	15.1	X	292.58062	334.53170	55.93556	4.04748	0.1755993	0.25666011	2.4522447	21	8 5.7	17.8
45566 2000 CK_{58}	12.9	X	327.81137	336.10238	153.07770	25.38524	0.1446692	0.17485446	3.1672686	21	—	—
45567 2000 CQ_{60}	13.8	X	9.91714	179.61467	276.95918	7.75495	0.0442754	0.17887226	3.1196609	21	—	—
45568 2000 CL_{62}	13.3	X	41.42947	235.40418	179.29812	16.37021	0.1324007	0.17785758	3.1315147	21	—	—
45569 2000 CK_{63}	13.5	X	162.39430	184.52840	199.59542	9.69779	0.0565026	0.18755043	3.0226696	21	3 6.8	18.1
45570 2000 CQ_{63}	13.6	X	17.90301	150.69960	307.24853	4.97124	0.0303249	0.22438180	2.6821165	21	—	—
45571 2000 CZ_{64}	14.3	X	267.28699	91.47624	240.31668	12.00709	0.2284344	0.24340595	2.5404769	21	4 2.6	18.5
45572 2000 CR_{71}	13.2	X	357.12972	349.07443	213.01378	9.86914	0.0012592	0.18947456	3.0021711	21	3 16.9	17.6
45573 2000 CZ_{72}	14.9	X	37.27336	89.30417	279.74917	6.40435	0.1505863	0.26718030	2.3874435	21	—	—
45574 2000 CE_{73}	14.1	X	87.87991	21.11578	318.41607	11.62075	0.2533062	0.22283064	2.6945492	21	—	—
45575 2000 CC_{75}	14.7	X	359.73903	232.64416	169.40082	23.48807	0.2770007	0.26639620	2.3921259	21	—	—
45576 2000 CD_{75}	13.9	X	146.32932	40.58077	20.46123	9.76145	0.0438949	0.19267738	2.9688088	21	4 3.9	18.2
45577 2000 CT_{76}	14.6	X	129.45872	358.74347	77.27640	2.32147	0.1186864	0.19260847	2.9695169	21	4 11.7	19.0
45578 2000 CL_{77}	14.3	X	168.54940	94.50284	144.09900	6.78082	0.0920389	0.17058050	3.2199549	21	12 3.9	19.3
45579 2000 CE_{80}	14.1	X	20.32188	255.24315	157.50183	9.79316	0.0714012	0.17426036	3.1744633	21	—	—
45580 Reneracine	14.7	X	246.83163	121.52577	344.16458	3.82401	0.0183500	0.21213115	2.7844093	21	10 1.8	18.6
45581 2000 CN_{82}	14.6	X	298.48982	116.15206	328.68670	8.82499	0.1286553	0.21617888	2.7495431	21	10 28.7	18.0
45582 2000 CH_{83}	14.3	X	350.55849	15.45128	342.99333	3.06285	0.1086675	0.21067375	2.7972359	21	10 2.9	17.6
45583 2000 CK_{87}	13.4	X	320.23836	254.96711	137.80912	8.35835	0.2308732	0.21245772	2.7815553	21	9 20.4	16.0
45584 2000 CY_{88}	14.3	X	9.94589	314.52564	152.15120	22.51495	0.0253207	0.17842706	3.1248481	21	—	—
45585 2000 CA_{89}	13.2	X	119.45176	176.95429	150.11300	23.22436	0.0747504	0.17326726	3.1865816	21	—	—
45586 2000 CC_{91}	13.9	X	300.73949	174.42627	169.96220	2.13401	0.0840439	0.20073485	2.8888225	21	6 26.1	17.6
45587 2000 CT_{91}	14.0	X	299.72651	353.17302	145.10179	1.09718	0.1438832	0.17486141	3.1671847	21	12 31.8	17.9
45588 2000 CP_{92}	14.2	X	51.52138	268.78097	154.23983	7.17848	0.1206768	0.22591382	2.6699770	21	—	—
45589 2000 CM_{97}	13.7	X	5.42332	29.87870	19.87794	0.60450	0.1361943	0.17141568	3.2094875	21	12 27.6	17.6
45590 2000 CU_{101}	13.4	X	351.56965	287.70866	151.74914	10.08230	0.0662594	0.17427290	3.1743111	21	—	—
45591 2000 CQ_{103}	13.2	X	217.19394	65.17912	171.40589	18.90999	0.0457139	0.17630700	3.1498486	21	—	—
45592 2000 CS_{103}	13.4	X	28.18474	286.86193	251.02689	8.91292	0.0379331	0.19078799	2.9883768	21	3 24.8	17.6
45593 2000 CT_{103}	13.8	X	47.09429	260.00946	196.49461	10.30328	0.1088761	0.18464819	3.0542601	21	1 14.3	17.8
45594 2000 CJ_{111}	15.4	X	120.99956	261.52847	133.87915	12.00602	0.2002783	0.23473325	2.6026732	21	2 15.6	18.9
45595 2000 CK_{111}	14.4	X	121.49970	313.12300	92.00846	3.18012	0.1046700	0.18874659	3.0098855	21	2 23.2	18.7
45596 2000 CF_{112}	14.5	X	127.24876	109.80138	272.61211	8.60569	0.1385859	0.23166837	2.6255778	21	1 26.9	18.1
45597 2000 CK_{120}	13.8	X	138.08191	161.30800	195.54905	5.40875	0.2270095	0.18465762	3.0541560	21	1 26.3	18.6
45598 2000 CN_{120}	14.8	X	138.97704	340.25597	329.08663	1.57350	0.1636216	0.22567640	2.6718492	21	—	—
45599 2000 DJ_{3}	13.8	X	157.11081	164.54486	145.86523	9.10661	0.0232695	0.17775284	3.1327447	21	—	—
45600 2000 DD_{4}	13.7	X	138.59237	308.24644	353.19924	11.38736	0.1609940	0.22112494	2.7083881	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45601 2000 DE_5	14.1	X	197.85062	249.28183	122.81140	10.30757	0.0819924	0.19330748	2.9623540	21	4 6.1	18.8
45602 2000 DX_{17}	12.9	X	183.27210	285.48984	330.39591	21.16115	0.0401393	0.17145788	3.2089609	21	—	—
45603 2000 DC_{18}	14.2	X	264.94303	307.34979	21.14874	2.60295	0.0953647	0.19570344	2.9381260	21	4 18.4	18.4
45604 2000 DH_{24}	14.0	X	356.39114	346.31071	332.30801	13.65090	0.0972060	0.20585275	2.8407407	21	8 19.5	17.3
45605 2000 DM_{28}	13.8	X	161.55296	309.18539	340.10633	5.16582	0.1129979	0.17554722	3.1589305	21	—	—
45606 2000 DE_{32}	13.9	X	119.38606	150.12085	145.92837	5.77958	0.1201699	0.17103088	3.2142996	21	12 23.1	18.9
45607 2000 DG_{36}	14.3	X	113.87614	146.42670	151.76699	16.51183	0.0942319	0.17067294	3.2187922	21	12 19.9	19.5
45608 2000 DZ_{41}	14.2	X	326.78006	145.28926	39.21171	0.55465	0.0425971	0.18355682	3.0663545	21	1 15.9	18.5
45609 2000 DN_{46}	14.0	X	270.25080	149.48337	168.89151	9.36030	0.0934577	0.19317937	2.9636635	21	4 14.7	18.4
45610 2000 DJ_{48}	14.6	X	298.96817	12.86044	352.75218	1.49696	0.1091886	0.20410742	2.8569120	21	7 19.1	18.2
45611 2000 DV_{54}	14.2	X	32.96512	197.77770	189.56715	1.18240	0.0653752	0.17254131	3.1955135	21	12 29.7	18.6
45612 2000 DB_{59}	14.6	X	216.26708	172.12540	213.02383	1.38098	0.1100943	0.19609064	2.9342569	21	5 5.6	19.2
45613 2000 DJ_{59}	14.2	X	179.92985	109.70084	305.01332	0.86453	0.0981502	0.19556842	2.9394781	21	5 5.1	18.8
45614 2000 DA_{63}	14.3	X	128.09120	114.65430	277.14186	1.14276	0.1102334	0.18540847	3.0459049	21	2 14.2	18.8
45615 2000 DG_{63}	15.4	X	321.61631	236.79850	173.79070	9.24624	0.1557133	0.21360362	2.7715984	21	10 26.2	18.3
45616 2000 DN_{66}	14.6	X	153.65430	80.46737	353.07041	2.00911	0.0690813	0.19434071	2.9518448	21	4 28.7	18.9
45617 2000 DY_{71}	14.2	X	176.16088	175.15553	165.21154	9.95460	0.1329462	0.18255515	3.0775609	21	2 3.6	19.2
45618 2000 DO_{72}	14.0	X	9.58524	42.42939	354.28816	9.74442	0.0788763	0.16990045	3.2285414	21	12 10.2	18.5
45619 2000 DS_{78}	14.0	X	13.67996	287.04516	160.34470	3.02994	0.0734037	0.17729358	3.1381525	21	—	—
45620 2000 DY_{80}	14.3	X	92.18869	326.34056	125.86357	12.35162	0.0625258	0.19046562	2.9917478	21	3 13.3	18.5
45621 2000 DL_{87}	14.1	X	104.73466	263.28820	118.22112	12.26460	0.0857676	0.18265859	3.0763989	21	1 2.9	18.4
45622 2000 DN_{87}	14.9	X	357.69685	263.01867	123.50722	12.81463	0.1787097	0.21709720	2.7417840	21	12 4.5	18.0
45623 2000 DT_{93}	14.1	X	206.95618	96.14003	131.89408	10.17250	0.0584603	0.17454547	3.1710055	21	—	—
45624 2000 DY_{93}	14.4	X	240.89188	238.16465	88.39590	2.85453	0.0847377	0.19211159	2.9746349	21	3 23.7	18.9
45625 2000 DE_{95}	13.7	X	202.95209	357.65435	349.10105	9.72950	0.0997334	0.18995370	2.9971205	21	3 7.8	18.2
45626 2000 DF_{95}	14.1	X	135.80878	182.59879	100.20904	2.83217	0.0251612	0.17258706	3.1949487	21	12 20.4	18.8
45627 2000 DY_{97}	14.2	X	67.60026	256.02457	135.71795	13.83869	0.1978602	0.22644891	2.6657693	21	—	—
45628 2000 DD_{99}	15.2	X	269.72504	21.29925	23.54970	1.89436	0.0839876	0.20613629	2.8381352	21	8 4.1	18.9
45629 2000 DT_{99}	13.2	X	78.62963	238.08856	115.49981	10.07675	0.0747259	0.17416469	3.1756257	21	—	—
45630 2000 DO_{101}	13.7	X	333.22434	346.42346	128.98128	11.64348	0.0358536	0.17599432	3.1535783	21	—	—
45631 2000 DY_{105}	13.7	X	19.03958	265.60311	149.00829	20.96606	0.1062040	0.17426625	3.1743918	21	—	—
45632 2000 DS_{106}	13.5	X	68.24541	229.40368	139.03951	12.94788	0.0827910	0.17313700	3.1881797	21	—	—
45633 2000 EY_{1}	14.9	X	247.95206	253.09496	116.74495	3.12453	0.1003872	0.19890158	2.9065462	21	5 21.4	19.2
45634 2000 EH_{11}	14.4	X	18.91496	216.22371	128.36402	9.76342	0.1856737	0.21205857	2.7850446	21	11 15.1	17.8
45635 2000 EY_{11}	13.7	X	187.01104	214.67482	98.95042	11.19434	0.0233728	0.18331479	3.0690530	21	1 9.9	18.1
45636 2000 EG_{12}	13.9	X	151.19175	278.22651	103.82564	11.44533	0.1251755	0.18919961	3.0050790	21	3 4.4	18.6
45637 2000 EW_{12}	13.8	X	34.18499	207.27608	84.22432	9.44457	0.0987769	0.15855634	3.3807545	21	9 12.1	18.4
45638 2000 EK_{20}	14.1	X	40.61531	148.24796	226.85278	12.16070	0.2042707	0.22037388	2.7145383	21	—	—
45639 2000 EP_{20}	13.5	X	296.67072	323.68064	192.73750	24.16447	0.0805934	0.17681760	3.1437818	21	—	—
45640 2000 ED_{21}	14.1	X	131.44314	202.76568	210.90710	12.15138	0.1515490	0.19013182	2.9952484	21	3 17.9	18.7
45641 2000 EK_{21}	15.1	X	118.09668	198.93164	227.98296	12.51900	0.1216302	0.23556592	2.5965364	21	3 7.4	18.8
45642 2000 EU_{34}	13.9	X	133.22859	290.58621	102.55315	12.10274	0.1450502	0.18559652	3.0438470	21	3 1.9	18.6
45643 2000 EG_{37}	13.2	X	322.30509	123.50271	344.18333	4.61593	0.0945213	0.17258531	3.1949703	21	12 31.8	17.3
45644 2000 EU_{37}	14.1	X	40.79816	296.56453	155.85644	5.65523	0.1463515	0.18108435	3.0942027	21	1 2.9	17.7
45645 2000 EY_{41}	13.8	X	84.00953	39.73662	359.93043	1.16798	0.2017699	0.17983609	3.1085044	21	1 14.6	17.7
45646 2000 EE_{45}	13.7	X	274.65623	29.73043	325.66041	3.61141	0.2259445	0.19562867	2.9388745	21	5 15.9	18.3
45647 2000 EF_{46}	14.2	X	305.23332	117.22323	351.44569	2.68481	0.1680832	0.17121760	3.2119624	21	11 29.5	18.0
45648 2000 ED_{47}	13.2	X	3.95087	288.29067	185.30318	6.45555	0.1169776	0.17763833	3.1340909	21	—	—
45649 2000 EN_{49}	13.8	X	164.08430	244.36088	133.11319	11.86206	0.1286662	0.18619663	3.0373034	21	3 10.8	18.6
45650 2000 EV_{49}	14.0	X	68.47472	228.24680	138.61678	14.70327	0.1544297	0.22276154	2.6951064	21	—	—
45651 2000 EK_{60}	14.7	X	38.24438	43.43009	353.52233	3.42189	0.2619687	0.22048639	2.7136148	21	—	—
45652 2000 EK_{61}	14.2	X	303.55954	137.58207	267.68639	2.01306	0.0366737	0.16063107	3.3515807	21	9 20.4	18.9
45653 2000 EL_{62}	13.1	X	332.05615	141.03282	169.28988	10.17385	0.0594666	0.15159976	3.4834029	21	6 29.6	17.9
45654 2000 EV_{71}	15.9	X	238.58729	125.25112	267.25718	1.08073	0.0612558	0.20141219	2.8823423	21	6 12.1	20.1
45655 2000 EW_{71}	15.2	X	204.60654	221.55892	154.77486	13.99764	0.1978768	0.24258507	2.5462049	21	4 12.4	19.6
45656 2000 EN_{74}	14.2	X	112.64970	279.72107	62.30374	7.52187	0.0829975	0.21757238	2.7377905	21	—	—
45657 2000 EK_{76}	13.9	X	52.32895	267.77448	116.95037	8.98647	0.1959756	0.22258893	2.6964995	21	—	—
45658 2000 EA_{80}	13.9	X	144.62902	38.25672	358.26650	10.14733	0.1126704	0.18896666	3.0075482	21	3 10.7	18.4
45659 2000 EL_{84}	13.6	X	190.66331	239.10393	148.48796	11.07622	0.1255880	0.19245420	2.9711035	21	4 17.2	18.5
45660 2000 EU_{84}	13.6	X	59.38511	187.89295	211.95352	8.50863	0.0602797	0.17797304	3.1301602	21	—	—
45661 2000 EX_{84}	13.9	X	241.78935	86.43660	264.54120	12.21961	0.2318784	0.24227704	2.5483625	21	4 1.9	18.5
45662 2000 EY_{84}	14.0	X	261.79312	8.06086	210.54327	11.13364	0.0604780	0.17979032	3.1090319	21	—	—
45663 2000 EF_{85}	13.4	X	349.65133	252.03346	276.81786	9.65378	0.0762411	0.18454526	3.0553956	21	1 20.8	17.4
45664 2000 EC_{88}	13.2	X	286.93022	72.90785	257.41926	11.82728	0.1355249	0.19722422	2.9230027	21	5 10.5	17.3
45665 2000 EM_{88}	13.6	X	53.92556	271.59540	237.81872	8.79281	0.0392037	0.18994537	2.9972082	21	3 24.6	17.8
45666 2000 EX_{91}	13.8	X	38.69175	244.33668	194.47821	16.49819	0.1000981	0.17863111	3.1224679	21	—	—
45667 2000 EG_{93}	13.4	X	252.85141	308.39899	260.38010	8.17933	0.0504129	0.17509104	3.1644150	21	—	—
45668 2000 EU_{94}	13.6	X	29.27297	81.48087	328.98046	13.55838	0.1923638	0.22041554	2.7141962	21	—	—
45669 2000 ET_{96}	13.9	X	280.62876	301.83147	212.37346	12.98675	0.1556216	0.17131282	3.2107720	21	12 19.5	18.2
45670 2000 EK_{103}	13.3	X	0.76127	18.56162	93.92874	18.73313	0.1774278	0.18000492	3.1065604	21	—	—
45671 2000 EA_{104}	13.1	X	132.57700	199.60988	255.21868	9.40101	0.0768128	0.19008339	2.9957571	21	5 1.5	17.6
45672 2000 EE_{109}	13.5	X	207.28584	76.99662	267.07114	14.60526	0.1845224	0.18926151	3.0044237	21	2 28.8	18.8
45673 2000 ES_{111}	14.8	X	128.67655	146.80949	150.06762	1.79041	0.1644484	0.17319737	3.1874388	21	—	—
45674 2000 EY_{111}	13.9	X	180.66410	241.81489	106.60197	3.63778	0.0867543	0.18751183	3.0230843	21	2 16.5	18.4
45675 2000 EG_{112}	13.8	X	53.66672	104.21106	297.04530	12.94247	0.2121555	0.22454972	2.6807792	21	—	—
45676 2000 EG_{117}	14.3	X	11.10229	51.91441	358.64117	7.00742	0.2317062	0.21969368	2.7201384	21	—	—
45677 2000 EJ_{120}	13.9	X	290.88670	14.65072	133.84835	22.42366	0.0440829	0.17533263	3.1615075	21	—	—
45678 2000 EQ_{127}	13.4	X	174.18599	300.01178	150.61931	13.79624	0.1076675	0.19812549	2.9141316	21	6 15.1	18.2
45679 2000 EZ_{127}	14.5	X	351.34383	2.30792	90.42879	2.57878	0.0702101	0.17445769	3.1720691	21	—	—
45680 2000 EF_{130}	13.0	X	339.78911	277.59869	151.74222	7.24884	0.0572415	0.17042815	3.2218735	21	12 9.8	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45681 2000 ET_{131}	14.0	X	324.11488	297.60569	165.69862	13.14403	0.0598234	0.17213755	3.2005084	21	12 28.9	18.5
45682 2000 EX_{131}	13.2	X	77.97399	72.50756	9.41261	10.83014	0.1101112	0.18462603	3.0545044	21	2 17.4	17.2
45683 2000 EO_{135}	14.5	X	199.46081	280.69050	62.48582	6.38973	0.2538877	0.22926527	2.6438930	21	2 28.6	19.2
45684 2000 EE_{137}	13.6	X	169.32876	312.96653	282.57919	13.23697	0.0571014	0.16985199	3.2291555	21	11 30.4	18.6
45685 Torrycoppin	13.7	X	217.86301	179.71445	132.02311	18.77391	0.2472979	0.17809272	3.1287578	21	2 8.3	19.1
45686 2000 EM_{139}	13.6	X	197.51198	176.08557	184.05359	9.69883	0.0660229	0.18936637	3.0033145	21	3 17.6	18.0
45687 Pranverahyseni	13.2	X	38.03590	203.95264	176.00516	16.27672	0.1035901	0.17380143	3.1800490	21	12 31.9	17.9
45688 2000 EV_{142}	14.8	X	150.23835	152.30021	239.02537	10.87689	0.1872143	0.23673705	2.5879660	21	3 5.6	19.1
45689 2000 EC_{144}	13.9	X	85.24346	224.22104	251.56290	9.68422	0.0964910	0.19104307	2.9857162	21	3 30.9	18.1
45690 2000 EL_{146}	14.0	X	134.12406	116.99950	278.79354	12.18782	0.1881354	0.23367359	2.6105356	21	2 22.5	18.1
45691 2000 EF_{148}	13.5	X	99.43167	186.14232	184.47857	9.47528	0.0737889	0.17407650	3.1766981	21	—	—
45692 Poshyachinda	14.0	X	85.51900	221.82627	185.12962	10.68603	0.1606838	0.22505871	2.6767358	21	1 6.4	17.3
45693 2000 EB_{150}	13.8	X	232.83053	326.66080	107.03661	17.25864	0.2599712	0.20326567	2.8647937	21	7 10.1	18.6
45694 2000 EC_{150}	13.8	X	319.27866	105.83526	271.10555	21.00390	0.3055884	0.25766083	2.4458911	21	8 2.9	16.2
45695 2000 ET_{150}	14.5	X	243.01761	213.40842	155.52699	2.37378	0.1153096	0.19575549	2.9376051	21	5 13.5	19.0
45696 2000 EM_{167}	13.5	X	339.30193	65.25161	96.21537	10.68468	0.0410068	0.18271161	3.0758037	21	1 4.1	17.8
45697 2000 EP_{174}	15.0	X	336.59542	141.60648	191.68291	1.07879	0.1268099	0.20635799	2.8361021	21	8 2.9	18.3
45698 2000 EG_{197}	15.5	X	182.49295	281.94769	127.40651	4.74084	0.2962363	0.24388677	2.5371368	21	5 4.2	20.2
45699 2000 EO_{199}	14.7	X	91.64730	178.04520	220.58852	10.98703	0.1249305	0.23081499	2.6320454	21	—	—
45700 Levi–Setti	14.7	X	167.61487	98.21442	288.48256	11.45929	0.1863294	0.23725062	2.5842299	21	3 14.5	19.2
45701 2000 FE_{11}	13.7	X	46.63463	6.04459	85.47816	12.71381	0.0922387	0.18360100	3.0658626	21	1 9.1	17.5
45702 2000 FJ_{15}	14.1	X	127.05586	145.34642	190.06010	23.62028	0.1887824	0.26390096	2.4071809	21	—	—
45703 2000 FH_{19}	14.6	X	31.99906	299.84503	115.88405	9.23712	0.3300198	0.22294621	2.6936179	21	—	—
45704 2000 FZ_{19}	14.4	X	9.38662	280.85937	132.60342	13.28417	0.1598140	0.21825920	2.7320439	21	—	—
45705 2000 FD_{31}	14.1	X	249.20337	213.59713	67.87549	8.87013	0.1774835	0.22860023	2.6490182	21	1 26.7	18.5
45706 2000 FT_{31}	13.5	X	141.95553	283.04683	90.09498	11.85762	0.1507514	0.18307136	3.0717730	21	2 15.3	18.4
45707 2000 FZ_{31}	13.7	X	41.63059	336.50580	85.44835	13.52466	0.1375013	0.17744380	3.1363811	21	—	—
45708 2000 FD_{35}	14.3	X	7.17360	231.65526	170.61198	7.63444	0.1471347	0.21437420	2.7649527	21	—	—
45709 2000 FR_{36}	13.6	X	200.13329	335.71258	171.93282	12.72052	0.0269518	0.15915841	3.3722233	21	9 22.4	18.5
45710 2000 FD_{40}	14.2	X	245.22909	288.71579	50.92284	9.45477	0.1836487	0.23366193	2.6106225	21	4 3.7	18.4
45711 2000 FD_{43}	14.4	X	68.12000	57.99076	42.38524	6.23270	0.0608903	0.23076379	2.6324347	21	2 10.3	17.7
45712 2000 FR_{44}	13.9	X	97.75209	263.17894	141.81696	9.95405	0.0671242	0.18049063	3.1009846	21	1 19.7	18.2
45713 2000 FK_{51}	14.8	X	27.32088	294.65526	99.48585	0.12540	0.1437345	0.16910941	3.2386017	21	—	—
45714 2000 FV_{58}	14.0	X	214.77807	192.90968	158.71355	10.66096	0.1050845	0.18875899	3.0097537	21	3 26.9	18.8
45715 2000 FR_{66}	14.8	X	178.49451	43.01480	328.85196	4.53451	0.3118191	0.23502509	2.6005182	21	3 16.2	19.7
45716 2000 GK_{8}	14.0	X	346.23058	55.18561	7.55594	0.41762	0.1277405	0.17116629	3.2126042	21	12 12.7	17.6
45717 2000 GZ_{11}	14.6	X	64.35905	210.94891	196.23513	4.97057	0.1567160	0.17793531	3.1306027	21	—	—
45718 2000 GO_{21}	14.3	X	109.49343	140.05012	272.33758	0.33395	0.2474022	0.18445573	3.0563842	21	3 8.1	18.6
45719 2000 GR_{26}	14.2	X	57.32705	58.82601	41.59022	3.85072	0.1855101	0.18363462	3.0654884	21	2 16.2	17.6
45720 2000 GZ_{33}	14.1	X	89.01573	222.42662	197.35395	9.07320	0.1310185	0.18070962	3.0984788	21	2 2.2	18.4
45721 2000 GZ_{42}	13.2	X	153.07623	309.31105	47.99418	1.02371	0.0757201	0.13260112	3.8086516	21	2 5.7	18.7
45722 2000 GA_{56}	13.8	X	351.51877	235.85118	37.29586	9.37354	0.0585659	0.19258668	2.9697408	21	6 7.5	17.7
45723 2000 GN_{58}	14.2	X	39.66935	234.87331	211.89700	11.07476	0.1503232	0.17720400	3.1392100	21	—	—
45724 2000 GJ_{68}	13.8	X	278.89183	298.00406	42.54037	10.97344	0.1079387	0.19102474	2.9859072	21	5 18.1	18.0
45725 2000 GJ_{77}	14.6	X	286.29094	281.72616	50.07753	4.29929	0.1219702	0.23570143	2.5955411	21	5 12.2	18.0
45726 2000 GL_{83}	14.1	X	50.22873	260.43463	152.40268	9.51419	0.1121967	0.17800796	3.1297509	21	—	—
45727 2000 GQ_{83}	13.7	X	120.53175	212.65233	126.82956	10.33813	0.0723827	0.17482061	3.1676775	21	—	—
45728 2000 GC_{86}	14.0	X	272.29361	53.18439	188.14453	24.93584	0.3000284	0.17853654	3.1235704	21	—	—
45729 2000 GB_{89}	13.6	X	324.86117	249.13261	169.64185	9.20078	0.1503529	0.21015678	2.8018214	21	11 12.6	16.7
45730 2000 GS_{106}	13.7	X	264.52987	33.13077	222.38920	10.39101	0.0316856	0.17856555	3.1232321	21	1 25.8	18.5
45731 2000 GM_{124}	14.1	X	209.30527	204.85627	74.31201	13.06281	0.1778454	0.21859141	2.7292751	21	—	—
45732 2000 GL_{136}	13.6	X	309.73708	184.34336	112.88693	11.55773	0.0938930	0.18817493	3.0159782	21	5 10.9	17.8
45733 2000 GV_{139}	13.8	X	139.41444	219.99989	169.27763	10.68265	0.0868042	0.18117246	3.0931994	21	2 20.8	18.4
45734 2000 GN_{140}	13.6	X	80.33281	228.54772	166.13221	6.30720	0.1531275	0.17433260	3.1735863	21	—	—
45735 2000 GC_{159}	13.6	X	193.44828	63.07889	245.18003	13.91148	0.1790783	0.17722431	3.1389701	21	1 13.7	19.0
45736 2000 GA_{170}	14.4	X	159.28115	141.88963	256.38302	11.83778	0.2205088	0.23820652	2.5773117	21	3 24.2	18.9
45737 Benita	13.5	X	126.44307	124.78134	181.27101	10.18132	0.0429834	0.17264151	3.1942769	21	—	—
45738 2000 HY_{19}	13.2	X	350.25195	278.12831	197.44818	13.78508	0.1195440	0.17158679	3.2073534	21	—	—
45739 2000 HR_{25}	12.5	X	96.55674	337.97855	37.30711	7.35992	0.3189734	0.12349681	3.9936091	21	1 31.2	18.3
45740 2000 HG_{27}	14.1	X	295.12263	149.24202	192.79134	13.11102	0.1140408	0.19224975	2.9732096	21	6 11.1	18.3
45741 2000 HT_{33}	14.4	X	285.73719	267.87695	356.73418	1.74064	0.0677199	0.18187572	3.0852207	21	2 28.7	18.7
45742 2000 HJ_{44}	14.9	X	154.54331	271.75323	60.81728	9.94598	0.2762048	0.26422075	2.4052383	21	1 7.1	18.7
45743 2000 HR_{53}	13.7	X	251.34533	323.67394	57.71471	11.02424	0.0908921	0.19097871	2.9863870	21	6 8.8	18.1
45744 2000 HU_{57}	14.2	X	179.63794	223.45690	58.14031	10.17792	0.1420178	0.21526402	2.7573279	21	—	—
45745 2000 HU_{84}	13.8	X	98.36127	230.50857	256.98850	11.10276	0.2160113	0.23874108	2.5734631	21	5 19.7	17.3
45746 2000 JW_{14}	13.9	X	336.32137	200.90292	75.59204	6.45093	0.0738155	0.18813773	3.0163758	21	5 21.1	17.7
45747 2000 JR_{38}	14.8	X	210.88641	109.49206	236.58860	9.47330	0.0388392	0.22779583	2.6552507	21	3 6.5	18.8
45748 2000 JD_{62}	15.2	X	69.38860	204.53972	83.92468	3.12827	0.0870535	0.24682112	2.5169881	21	10 30.9	18.6
45749 2000 JR_{64}	13.8	X	27.28056	120.76639	342.96225	16.25761	0.2022607	0.18003043	3.1062669	21	—	—
45750 2000 JC_{65}	13.8	X	283.82623	136.98479	187.21627	8.78087	0.1552959	0.18559659	3.0438463	21	4 29.7	18.1
45751 2000 JH_{66}	13.9	X	335.49271	94.34601	172.72212	11.45655	0.1886823	0.18552662	3.0446116	21	4 26.0	17.5
45752 2000 JY_{70}	13.5	X	242.80743	73.66282	268.81371	8.73321	0.1172895	0.18932380	3.0037647	21	4 6.3	18.2
45753 2000 JL_{72}	14.3	X	14.41386	46.59306	191.17767	12.92998	0.0175508	0.18890695	3.0081819	21	5 27.7	18.6
45754 2000 KC_{14}	15.2	X	254.50588	320.87429	65.33734	4.32453	0.1464137	0.23789430	2.5795663	21	6 11.5	18.9
45755 2000 KL_{18}	14.3	X	8.75047	175.07582	160.00844	2.07140	0.1075807	0.19845086	2.9109454	21	10 1.2	17.8
45756 2000 KV_{26}	14.7	X	345.51133	121.91297	64.56145	8.25193	0.0864803	0.22467826	2.6797566	21	1 30.9	18.1
45757 2000 KH_{29}	15.0	X	248.98111	321.69922	24.95273	1.70027	0.0813009	0.23053767	2.6341557	21	4 21.8	18.7
45758 2000 KN_{29}	13.9	X	189.72665	59.76345	257.97436	4.70674	0.1223905	0.17143084	3.2092982	21	1 22.5	19.0
45759 2000 KQ_{41}	14.5	X	114.80632	127.15301	184.87292	3.12973	0.0461710	0.20973819	2.8055480	21	—	—
45760 2000 KY_{43}	14.8	X	350.85961	240.33721	92.77893	8.96361	0.1754339	0.28674267	2.2775845	21	9 17.3	16.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45761 2000 KF_{45}	14.6	X	108.55577	244.56671	125.73220	3.78416	0.1068370	0.21656360	2.7462858	21	—	—
45762 2000 KK_{76}	14.8	X	320.38411	241.54699	114.30445	6.56813	0.1498374	0.24098483	2.5574643	21	8 6.4	17.3
45763 2000 KB_{77}	15.1	X	228.42199	174.64855	99.57374	4.85822	0.0368311	0.21996509	2.7179004	21	1 2.1	19.0
45764 2000 LV	14.8	X	162.48859	64.97970	277.41857	6.71126	0.3159468	0.26219481	2.4176123	21	1 27.2	18.8
45765 2000 LJ_{3}	13.7	X	137.44118	128.00637	188.50089	8.70328	0.1539230	0.21087631	2.7954444	21	—	—
45766 2000 LX_{5}	13.5	X	74.15245	98.86499	55.52770	10.11140	0.0257935	0.18455064	3.0553362	21	4 30.8	17.7
45767 2000 LU_{17}	13.7	X	295.05835	98.18188	224.57863	11.67052	0.2084894	0.18314814	3.0709144	21	5 2.6	18.0
45768 2000 LF_{28}	15.0	X	118.82046	79.97431	249.61516	3.70237	0.1696574	0.29865620	2.2166053	21	—	—
45769 2000 LP_{36}	14.2	X	146.95511	207.35843	132.32121	13.13603	0.1541987	0.21626043	2.7488519	21	1 3.4	18.4
45770 2000 NM_{2}	14.3	X	72.02466	116.63253	186.05835	1.46214	0.2116611	0.24502924	2.5292443	21	12 5.2	18.0
45771 2000 NE_{5}	14.6	X	1.72442	328.09916	333.95320	6.76982	0.1412157	0.27882415	2.3205048	21	8 11.9	16.5
45772 2000 NR_{16}	15.4	X	154.38584	223.99995	103.96010	5.75295	0.1645478	0.30378191	2.1916008	21	—	—
45773 2000 NL_{22}	14.4	X	211.44770	47.63751	285.24078	9.38127	0.1360268	0.26364693	2.4087269	21	2 14.7	18.3
45774 2000 NH_{24}	13.9	X	183.44985	237.14869	95.08192	13.40368	0.1804625	0.21931499	2.7232688	21	2 1.1	18.4
45775 2000 NP_{27}	14.8	X	328.30222	152.02777	115.04980	4.77303	0.1548843	0.22723970	2.6595812	21	4 12.9	17.9
45776 2000 NZ_{28}	14.7	X	21.21656	334.91880	284.51754	0.99179	0.1767593	0.18677811	3.0309963	21	7 14.9	18.1
45777 2000 OZ_{4}	14.4	X	328.88578	0.71866	297.52356	12.34726	0.1438681	0.22891175	2.6466143	21	5 25.8	17.7
45778 2000 OG_{5}	14.7	X	51.90960	56.64122	290.71670	6.86896	0.1079801	0.24477402	2.5310021	21	12 26.0	18.0
45779 2000 OR_{6}	15.0	X	236.57002	14.05692	234.34536	3.90377	0.1530295	0.26062436	2.4273145	21	—	—
45780 2000 OA_{12}	15.3	X	323.92590	356.23125	280.69986	2.75156	0.0347582	0.22806186	2.6531854	21	5 3.2	18.8
45781 2000 OD_{12}	14.2	X	270.15816	255.51253	291.36269	5.25570	0.0499867	0.20969264	2.8059542	21	—	—
45782 2000 OE_{14}	15.1	X	190.72574	74.20488	286.75453	2.74131	0.1021934	0.26653044	2.3913226	21	3 2.1	18.6
45783 2000 OV_{16}	14.7	X	182.86396	166.06300	185.92715	2.37088	0.2087156	0.26287870	2.4134175	21	2 17.7	18.5
45784 2000 OZ_{17}	14.6	X	35.06124	303.97337	22.27510	3.45758	0.2036225	0.24122033	2.5557995	21	11 19.7	17.8
45785 2000 OT_{19}	15.3	X	356.21673	136.28404	178.14935	3.81990	0.1362371	0.28293613	2.2979670	21	8 18.5	17.1
45786 2000 OE_{20}	14.8	X	245.00393	96.13276	168.74787	9.25793	0.1090002	0.21488910	2.7605341	21	1 6.0	19.2
45787 2000 OJ_{24}	14.4	X	103.03182	54.98953	343.94055	6.10530	0.1198721	0.25972863	2.4328920	21	1 9.9	17.2
45788 2000 OH_{25}	15.0	X	219.00177	235.08507	108.13624	6.21965	0.1342372	0.26852844	2.3794460	21	3 12.4	18.6
45789 2000 OZ_{26}	14.7	X	154.80047	193.78406	159.52402	3.09443	0.1948254	0.25906325	2.4370560	21	1 24.4	18.4
45790 2000 ON_{42}	15.2	X	22.10906	66.17356	253.30001	5.98983	0.1356167	0.28489099	2.2874428	21	10 16.3	17.5
45791 2000 OD_{45}	14.9	X	344.19258	351.04621	318.45696	9.97073	0.2346689	0.27838712	2.3229327	21	7 8.4	16.3
45792 2000 OF_{45}	15.3	X	254.75897	12.31485	307.07734	6.14009	0.1306881	0.26668454	2.3904013	21	3 12.9	18.9
45793 2000 OL_{48}	15.5	X	63.58630	203.86890	119.64861	2.90916	0.1903218	0.28857633	2.2679261	21	12 27.4	18.7
45794 2000 OM_{48}	15.1	X	240.46043	239.20640	89.58992	2.28759	0.2016046	0.26617481	2.3934522	21	3 10.6	18.9
45795 2000 OY_{49}	15.1	X	176.14417	190.74412	175.62071	6.52312	0.1515517	0.26098898	2.4250532	21	2 25.9	18.7
45796 2000 OG_{54}	14.5	X	223.87314	326.67866	306.61700	1.26244	0.2085174	0.16724105	3.2626773	21	1 2.7	20.1
45797 2000 PK_{1}	15.7	X	339.13680	101.41362	332.45767	6.87910	0.0964856	0.29318953	2.2440735	21	—	—
45798 2000 PH_{16}	15.0	X	262.03801	267.14663	323.11917	8.37922	0.0825159	0.21321481	2.7749669	21	—	—
45799 2000 PZ_{18}	15.5	X	282.09401	342.66716	340.43452	5.21702	0.0249567	0.27297822	2.3535173	21	5 4.6	18.6
45800 2000 PB_{22}	14.0	X	242.85179	312.31379	359.31937	13.85798	0.2566042	0.17289829	3.1911136	21	2 28.7	19.5
45801 2000 PF_{28}	15.0	X	243.78138	193.95798	84.31826	7.30210	0.1301413	0.26161504	2.4211828	21	1 13.5	18.7
45802 2000 PV_{29}	8.0	X	58.83047	98.34036	173.31160	1.17914	0.0137093	0.00339829	43.8156148	21	8 25.1	24.4
45803 2000 QH_{1}	14.8	X	80.09471	313.94443	343.43887	11.00049	0.1797152	0.24326773	2.5414391	21	11 30.7	18.9
45804 2000 QP_{2}	15.7	X	295.53201	182.18060	152.57467	6.65297	0.1240040	0.27557032	2.3387354	21	5 28.3	18.5
45805 2000 QU_{18}	15.7	X	112.56138	2.96368	149.85980	5.25755	0.0506918	0.27454419	2.3445592	21	6 17.5	18.6
45806 2000 QN_{20}	15.6	X	320.39520	336.48269	340.76941	5.40799	0.1534768	0.27608995	2.3358000	21	6 4.5	18.1
45807 2000 QY_{20}	15.4	X	25.44082	28.29728	333.67053	6.22954	0.1107026	0.28885879	2.2664475	21	12 20.8	18.1
45808 2000 QG_{24}	16.3	X	313.11558	32.37250	151.51221	2.01404	0.0315953	0.30341681	2.1933585	21	—	—
45809 2000 QH_{28}	15.9	X	217.86888	331.63267	349.17800	5.29807	0.0197444	0.30904619	2.1666418	21	2 1.7	18.4
45810 2000 QP_{32}	15.0	X	344.74746	240.00756	67.34490	6.46408	0.1057582	0.27860899	2.3216993	21	7 15.0	17.1
45811 2000 QN_{38}	15.5	X	264.05914	316.65187	160.39059	1.65027	0.0535444	0.24303260	2.5430781	21	11 9.2	18.7
45812 2000 QV_{39}	15.8	X	290.86041	186.02423	183.04866	0.94752	0.0368050	0.27920530	2.3183924	21	7 24.2	18.6
45813 2000 QA_{45}	15.4	X	284.01378	104.86492	147.12853	5.96522	0.1185333	0.26462160	2.4028087	21	1 21.1	18.8
45814 2000 QJ_{61}	15.8	X	210.13988	122.73489	130.31911	4.49160	0.1624995	0.30168137	2.2017621	21	—	—
45815 2000 QF_{67}	15.1	X	335.74753	273.97331	40.99304	7.29541	0.1480208	0.27768777	2.3268312	21	7 4.8	17.3
45816 2000 QO_{72}	15.0	X	98.82033	285.84732	322.69365	3.63921	0.1249534	0.23949272	2.5680758	21	10 14.8	18.7
45817 2000 QM_{78}	15.4	X	298.69861	270.38882	331.28707	6.41448	0.0869540	0.26323654	2.4112298	21	1 30.8	18.5
45818 2000 QG_{79}	15.7	X	256.28774	32.68419	178.66301	4.87157	0.0868076	0.30045093	2.2077692	21	—	—
45819 2000 QL_{101}	15.6	X	11.13194	354.71867	17.80331	11.89939	0.0978403	0.28735790	2.2743325	21	12 9.5	18.3
45820 2000 QQ_{102}	15.3	X	55.70480	228.94045	71.04224	4.91556	0.1480826	0.23803710	2.5785345	21	11 5.3	18.6
45821 2000 QS_{114}	15.8	X	161.58098	95.76197	144.02371	5.03679	0.0855676	0.29201087	2.2501080	21	12 17.5	18.9
45822 2000 QQ_{116}	12.3	X	265.40010	271.14450	91.94086	7.29973	0.1901421	0.08202619	5.2460735	21	5 26.9	19.4
45823 2000 QC_{120}	15.3	X	51.70038	57.08801	198.12562	6.37782	0.1080430	0.27928826	2.3179333	21	8 24.6	17.9
45824 2000 QB_{122}	15.4	X	4.10501	31.56695	269.34635	3.25710	0.1665204	0.27893785	2.3198741	21	8 14.6	17.0
45825 2000 QW_{123}	15.2	X	145.62715	272.20417	188.50470	21.52839	0.1010004	0.36123922	1.9525678	21	5 21.1	17.9
45826 2000 QX_{128}	15.5	X	222.03481	7.79682	310.63217	4.67740	0.0883474	0.30853319	2.1690428	21	2 3.2	18.5
45827 2000 QV_{149}	15.5	X	248.72761	64.11514	267.14646	3.51850	0.1528549	0.26762891	2.3847748	21	3 20.9	19.1
45828 2000 QK_{157}	15.4	X	281.66347	320.57003	265.70415	5.73757	0.0953733	0.26024198	2.4296916	21	—	—
45829 2000 QR_{166}	14.6	X	100.61671	315.27596	320.43789	11.73762	0.2317545	0.19700457	2.9251750	21	11 21.2	19.7
45830 2000 QW_{181}	14.8	X	152.31325	65.20219	7.39411	4.38935	0.1166689	0.30595366	2.1812174	21	4 20.8	17.6
45831 2000 QW_{184}	15.2	X	322.43400	193.32920	71.22772	4.15328	0.1374171	0.22464571	2.6800154	21	4 2.9	18.5
45832 2000 QK_{186}	15.5	X	85.40187	155.11145	107.29399	6.21172	0.1405100	0.28753393	2.2734041	21	10 29.9	18.7
45833 2000 QX_{188}	15.6	X	128.15600	164.05593	65.66640	4.14961	0.0520248	0.28710562	2.2756646	21	10 26.8	18.5
45834 2000 QU_{229}	15.8	X	26.32321	214.38410	14.21083	4.93903	0.1445774	0.27355187	2.3502258	21	6 1.6	17.9
45835 2000 RZ	15.6	X	234.47896	131.95613	214.80917	1.59220	0.0683887	0.31359335	2.1456464	21	3 27.7	18.1
45836 2000 RT_{21}	15.8	X	39.45165	39.43633	316.35400	5.34527	0.0681220	0.28939517	2.2636461	21	12 25.3	18.5
45837 2000 RD_{27}	14.9	X	199.95741	324.04965	325.87321	14.21654	0.1373501	0.25611445	2.4557265	21	—	—
45838 2000 RV_{30}	14.7	X	166.92723	55.13792	283.11677	5.43534	0.1480638	0.25655523	2.4529129	21	1 13.9	18.3
45839 2000 RQ_{37}	15.6	X	275.25988	173.62002	237.94709	20.80311	0.0790800	0.36960833	1.9229805	21	8 21.4	18.2
45840 2000 RU_{44}	15.0	X	230.94914	66.82808	339.15002	10.68812	0.2996220	0.22267562	2.6957996	21	5 30.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45841 2000 RX_{55}	15.6	X	309.80012	260.30468	330.52046	2.11343	0.1217854	0.26349087	2.4096779	21	1 24.7	18.8
45842 2000 RC_{66}	15.4	X	15.88108	164.71854	157.36211	8.27238	0.2265945	0.28168785	2.3047508	21	10 29.8	17.5
45843 2000 RL_{73}	16.1	X	133.55234	76.45686	188.95412	5.68902	0.0893517	0.29038504	2.2584989	21	12 19.3	19.3
45844 2000 RN_{74}	14.7	X	311.79109	331.53419	289.95424	5.75371	0.1388442	0.22306746	2.6926417	21	3 9.6	18.3
45845 2000 RM_{75}	15.4	X	272.56300	10.37026	301.36857	6.04271	0.1254422	0.26691675	2.3890148	21	3 22.6	18.9
45846 2000 RA_{96}	15.3	X	265.25324	86.75315	188.17438	2.50353	0.1528815	0.26246757	2.4159371	21	1 27.5	18.9
45847 2000 RC_{96}	15.8	X	301.55166	297.41476	346.20116	2.13938	0.1631316	0.26845973	2.3798520	21	3 17.8	18.6
45848 2000 SY_{11}	15.2	X	17.02261	48.09503	337.95779	5.46875	0.1503208	0.29296376	2.2452263	21	—	—
45849 2000 SG_{98}	15.6	X	108.77124	21.12488	216.34850	4.38090	0.0338160	0.28258575	2.2998661	21	10 8.7	18.5
45850 2000 SH_{209}	12.6	X	139.41361	349.95296	130.10204	10.29575	0.1001203	0.12618978	3.9365876	21	6 16.2	18.5
45851 2000 SH_{239}	15.4	X	62.98955	114.47306	44.80874	2.70745	0.1514168	0.26301331	2.4125939	21	4 29.3	17.7
45852 2000 SG_{259}	14.8	X	169.72274	350.42424	177.00975	6.42802	0.1857196	0.22901881	2.6457894	21	9 14.3	19.0
45853 2000 SN_{263}	16.1	X	227.51926	282.13663	308.06855	1.82515	0.1286771	0.29864197	2.2166757	21	—	—
45854 2000 SR_{285}	15.9	X	113.87862	280.18411	350.69754	6.23067	0.0884189	0.28680204	2.2772702	21	12 2.9	19.1
45855 2000 TA_{2}	15.1	X	334.57813	328.46892	334.03739	1.61126	0.2220572	0.27338769	2.3511667	21	5 29.8	16.8
45856 2000 TO_{38}	13.0	X	265.39565	54.18086	45.37164	11.52037	0.1026954	0.18974514	2.9993164	21	10 7.8	17.2
45857 2000 TH_{61}	13.5	X	28.12205	164.05736	69.45329	14.63962	0.1338587	0.22369919	2.6875699	21	6 14.9	16.5
45858 2000 UP_{7}	14.7	X	69.62261	359.60137	175.55329	2.55284	0.1047274	0.26363477	2.4088010	21	5 27.4	17.3
45859 2000 UG_{13}	15.0	X	304.78654	254.15558	1.62463	8.47594	0.2394289	0.25970922	2.4330133	21	2 7.4	18.5
45860 2000 UG_{27}	15.0	X	322.92868	250.99523	114.01943	5.30921	0.1647972	0.27659676	2.3329458	21	8 29.3	16.8
45861 2000 UZ_{37}	14.2	X	298.44598	130.42260	173.14048	0.86498	0.1058527	0.17078514	3.2173822	21	4 29.2	18.5
45862 2000 UQ_{51}	13.9	X	231.19158	217.25636	179.55778	3.15676	0.1617085	0.12486158	3.9644551	21	6 3.2	20.1
45863 2000 UQ_{81}	14.9	X	42.08630	241.81769	219.81606	4.62564	0.0996145	0.29464835	2.2366603	21	—	—
45864 2000 UO_{97}	14.1	X	253.77026	202.10610	275.44325	5.87431	0.1041490	0.27985480	2.3148039	21	10 21.3	17.0
45865 2000 UT_{97}	15.1	X	22.20957	316.05860	8.67912	7.22346	0.1462154	0.28009266	2.3134932	21	10 25.7	17.4
45866 2000 UX_{109}	14.2	X	54.41948	187.12686	170.17812	9.46610	0.1034616	0.19101371	2.9860221	21	12 28.9	18.6
45867 2000 VS_{17}	15.6	X	242.48878	116.31537	191.66030	3.26524	0.2241332	0.30762223	2.1733228	21	2 7.1	19.1
45868 2000 VB_{20}	14.3	X	283.72580	163.72386	137.49666	2.14600	0.1048606	0.16894067	3.2407578	21	4 9.0	18.8
45869 2000 VG_{34}	15.3	X	319.98959	288.59920	210.01686	3.47961	0.0716551	0.28988951	2.2610720	21	—	—
45870 2000 VW_{37}	15.0	X	164.26940	137.66455	283.03099	3.82778	0.1182176	0.30502542	2.1856403	21	4 17.4	17.9
45871 2000 VD_{38}	14.1	X	262.55634	90.67209	100.99208	14.62582	0.0968869	0.23579931	2.5948227	21	—	—
45872 2000 VR_{49}	15.9	X	257.43961	52.28530	269.50969	1.42954	0.1657096	0.30950088	2.1645193	21	3 13.0	19.0
45873 2000 VK_{61}	15.7	X	51.76136	348.00200	297.42445	32.36333	0.0179583	0.41909801	1.7684481	21	9 14.3	18.4
45874 2000 WM_{3}	15.3	X	223.26688	217.33472	168.91627	23.15594	0.0957561	0.36004941	1.9568670	21	5 9.5	18.2
45875 2000 WJ_{19}	13.0	X	214.62641	359.91283	98.61662	17.98841	0.1154157	0.17474676	3.1685699	21	8 4.9	18.0
45876 2000 WD_{27}	14.7	X	11.27851	134.65751	97.60655	4.53358	0.1004506	0.30458294	2.1877566	21	5 5.1	16.6
45877 2000 WR_{29}	13.9	X	262.08000	241.03537	289.16000	29.11704	0.2967964	0.23081305	2.6320601	21	12 8.2	17.6
45878 2000 WX_{29}	14.6	X	296.02511	109.95674	296.70171	17.87395	0.0993235	0.36624164	1.9347472	21	9 16.8	16.7
45879 2000 WR_{33}	16.0	X	302.76283	351.47527	161.04392	5.37386	0.0900867	0.28911035	2.2651326	21	—	—
45880 2000 WG_{49}	15.4	X	138.12832	284.41336	281.46998	18.22385	0.0753378	0.36553866	1.9372270	21	10 4.2	18.3
45881 2000 WD_{55}	14.6	X	289.08657	234.84501	314.04992	6.05145	0.1476481	0.23791722	2.5794006	21	—	—
45882 2000 WX_{61}	15.2	X	168.11901	248.96637	287.46503	4.24814	0.1742513	0.26858480	2.3791131	21	9 24.9	19.0
45883 2000 WL_{87}	14.9	X	227.87687	137.95951	70.37153	6.99597	0.1151669	0.28274413	2.2990071	21	—	—
45884 2000 WB_{93}	15.5	X	237.36769	289.96679	250.70890	2.76345	0.1206680	0.28367042	2.2939996	21	12 25.3	18.0
45885 2000 WX_{95}	14.4	X	78.28384	168.12982	272.34367	3.64314	0.0454227	0.29803976	2.2196607	21	1 8.4	16.6
45886 2000 WL_{115}	14.9	X	350.48589	184.20039	10.79506	4.16428	0.0563122	0.30096290	2.2052648	21	2 4.9	17.4
45887 2000 WS_{117}	15.2	X	343.77263	286.30023	63.27082	6.85466	0.2025990	0.27500043	2.3419653	21	9 25.5	16.8
45888 2000 WL_{130}	15.4	X	191.57642	323.10215	252.35410	4.39951	0.1516603	0.28180695	2.3041014	21	12 11.0	18.8
45889 2000 WU_{130}	14.7	X	101.03785	298.36306	66.62484	3.40617	0.0641617	0.19782694	2.9170627	21	—	—
45890 2000 WS_{169}	15.2	X	158.82533	251.44100	259.26096	0.21777	0.0348256	0.31467467	2.1407282	21	8 16.2	17.5
45891 2000 WG_{178}	15.3	X	179.36711	237.01700	279.70042	5.69420	0.0476954	0.27115453	2.3640581	21	9 14.2	18.5
45892 2000 WR_{179}	14.3	X	26.65435	34.07157	168.29291	15.09055	0.0939092	0.25315715	2.4748141	21	4 26.4	17.2
45893 2000 XL_{7}	14.4	X	10.86249	324.79308	358.25311	7.23323	0.1573726	0.27540296	2.3396828	21	10 3.9	16.3
45894 2000 XW_{15}	14.5	X	86.46412	23.43527	315.61281	13.46813	0.1739262	0.24351906	2.5396902	21	—	—
45895 2000 XV_{25}	15.6	X	299.78472	280.66460	346.69355	5.90173	0.1295695	0.30390562	2.1910060	21	2 22.0	18.3
45896 2000 XT_{27}	14.9	X	210.01931	243.29762	19.14089	8.37973	0.0924423	0.29022670	2.2593203	21	—	—
45897 2000 XB_{28}	15.3	X	306.88517	305.25516	26.10735	6.70381	0.1392869	0.26653744	2.3912808	21	6 5.2	18.0
45898 2000 XQ_{49}	14.2	X	176.65624	150.43317	336.79096	17.77617	0.0733917	0.36021401	1.9562708	21	8 11.8	16.5
45899 2000 XS_{49}	15.0	X	252.50945	36.28627	90.24106	13.47006	0.1013095	0.27258714	2.3557678	21	11 8.4	18.0
45900 2000 YG_{10}	15.0	X	292.95140	129.07416	293.37664	19.63771	0.0883597	0.36640195	1.9341829	21	10 10.2	17.3
45901 2000 YH_{16}	13.8	X	296.88165	251.29517	312.62886	16.55738	0.1336782	0.23907547	2.5710629	21	—	—
45902 2000 YJ_{18}	15.0	X	21.00331	53.12040	41.64622	4.17130	0.1133595	0.24231545	2.5480932	21	—	—
45903 2000 YL_{18}	15.0	X	180.69439	239.52313	270.21762	8.86036	0.1259309	0.26579491	2.3957322	21	9 1.3	18.9
45904 2000 YV_{29}	13.9	X	275.26860	341.40158	116.82215	13.31710	0.1235986	0.22534866	2.6744392	21	10 23.9	17.5
45905 2000 YF_{34}	15.8	X	51.84621	317.56824	247.61584	4.84293	0.1061226	0.30500981	2.1857149	21	6 9.5	17.7
45906 2000 YW_{34}	13.1	X	307.54847	242.20629	344.84186	8.83766	0.2212848	0.19095526	2.9866314	21	1 19.6	17.5
45907 2000 YC_{35}	15.2	X	259.36158	67.22481	122.91908	4.97878	0.0827716	0.28048164	2.3113538	21	—	—
45908 2000 YE_{51}	15.3	X	220.64291	102.26287	87.69400	5.80987	0.1396606	0.27927722	2.3179943	21	12 11.9	18.4
45909 2000 YE_{53}	15.7	X	86.76452	247.61220	299.92269	5.91091	0.0729175	0.30962068	2.1639609	21	7 4.9	18.1
45910 2000 YN_{57}	15.5	X	70.35169	51.95269	123.70286	5.47322	0.1073778	0.20923573	2.8100377	21	6 2.1	19.2
45911 2000 YX_{63}	15.5	X	323.55130	124.62750	118.37695	4.03404	0.1604826	0.29892643	2.2152692	21	2 15.9	17.8
45912 2000 YZ_{64}	16.2	X	200.80440	323.28816	267.50394	5.85810	0.2094695	0.28105349	2.3082175	21	—	—
45913 2000 YV_{67}	15.4	X	187.22340	196.06999	297.61730	6.02311	0.1520984	0.26450335	2.4035248	21	8 20.0	19.2
45914 2000 YE_{68}	14.5	X	281.88927	87.65566	133.21649	15.34619	0.1368013	0.23878272	2.5731639	21	—	—
45915 2000 YN_{68}	15.3	X	358.69391	336.94035	170.02347	6.90297	0.1102442	0.28921033	2.2646105	21	—	—
45916 2000 YU_{68}	15.8	X	79.86768	148.22917	291.89711	3.65790	0.0830913	0.29230476	2.2485996	21	1 15.6	18.1
45917 2000 YE_{91}	16.0	X	199.71185	330.71609	264.78237	4.96498	0.1255938	0.28188101	2.3036978	21	—	—
45918 2000 YT_{96}	15.8	X	103.90203	260.13404	300.34941	1.44113	0.1542379	0.26313604	2.4118437	21	8 25.1	19.1
45919 2000 YZ_{103}	14.9	X	112.97592	83.34793	123.06131	10.90255	0.0687737	0.26257090	2.4153032	21	9 6.9	18.2
45920 2000 YP_{104}	13.6	X	167.20914	95.90447	135.72391	12.01242	0.1504866	0.22320956	2.6914988	21	12 1.5	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
45921 2000 YU_{104}	13.8	X	19.32454	178.79471	125.62465	10.15538	0.1353609	0.21330670	2.7741699	21	9 14.7	17.1
45922 2000 YN_{105}	15.4	X	296.99804	47.48224	99.97047	4.75369	0.0709968	0.28050150	2.3112447	21	—	—
45923 2000 YV_{107}	14.6	X	329.91124	14.94740	57.08068	2.83387	0.0668198	0.18503958	3.0499517	21	12 1.4	18.6
45924 2000 YZ_{108}	15.1	X	103.05565	350.94786	74.35910	3.32366	0.0559308	0.29732939	2.2231946	21	1 27.4	17.4
45925 2000 YK_{111}	15.8	X	89.01741	153.80449	71.05364	3.49531	0.1631713	0.26494583	2.4008480	21	9 13.5	19.1
45926 2000 YT_{112}	15.5	X	225.82654	148.72116	92.41106	6.99514	0.0909239	0.28666775	2.2779813	21	—	—
45927 2000 YR_{113}	15.3	X	98.39773	290.62970	316.70803	6.18715	0.1632188	0.26948526	2.3738105	21	10 18.4	18.9
45928 2000 YB_{116}	15.0	X	339.47605	268.37971	330.71215	6.71740	0.1283955	0.25123631	2.4874123	21	3 18.2	17.7
45929 2000 YP_{116}	14.6	X	297.41067	100.07279	120.03001	14.50556	0.1053967	0.24270291	2.5453806	21	1 2.6	18.2
45930 2000 YQ_{117}	15.6	X	210.38107	102.77554	106.07937	5.06694	0.0961035	0.27884949	2.3203642	21	12 30.1	18.6
45931 2000 YF_{121}	15.2	X	26.87474	255.00991	283.03298	6.74655	0.0239630	0.29971287	2.2113923	21	3 6.2	17.9
45932 2000 YT_{121}	13.7	X	204.62185	329.13555	119.08980	14.22723	0.1280322	0.22484703	2.6784155	21	7 10.9	17.9
45933 2000 YU_{128}	15.4	X	169.41101	169.76574	35.47990	5.09892	0.2092210	0.22319207	2.6916394	21	10 29.0	20.0
45934 2000 YK_{129}	15.7	X	53.17273	350.00521	50.90828	1.67389	0.1157944	0.23881776	2.5729122	21	—	—
45935 2000 YU_{132}	14.2	X	276.44993	260.32068	299.78681	11.72438	0.1286138	0.23359355	2.6111319	21	—	—
45936 2000 YB_{133}	13.7	X	235.67945	120.58353	149.55982	10.64480	0.0708845	0.18909448	3.0061927	21	1 9.5	18.3
45937 2000 YD_{133}	13.7	X	251.02361	287.22455	327.75079	3.08960	0.2144539	0.18642073	3.0348688	21	—	—
45938 2001 AV_{4}	15.3	X	301.96310	173.85534	261.11103	5.87943	0.0703936	0.27596070	2.3365293	21	11 10.9	17.9
45939 2001 AE_{7}	15.7	X	173.18927	25.77989	137.81634	6.98956	0.0605614	0.27035631	2.3687090	21	9 21.0	19.0
45940 2001 AZ_{10}	15.4	X	259.33725	92.41697	134.73633	8.00862	0.0902076	0.28864642	2.2675590	21	—	—
45941 2001 AM_{13}	15.2	X	276.40270	353.19813	258.29703	6.43908	0.1604881	0.24422823	2.5347715	21	1 11.7	19.1
45942 2001 AX_{13}	15.3	X	356.11368	128.42471	108.32752	10.09300	0.0833703	0.25512383	2.4620793	21	4 24.7	18.2
45943 2001 AU_{16}	15.5	X	4.78091	238.64646	297.98841	5.37476	0.1405925	0.29475407	2.2361255	21	1 19.8	17.4
45944 2001 AW_{16}	14.6	X	79.04795	77.57809	125.46712	11.34746	0.2080210	0.25818453	2.4425825	21	8 6.9	17.7
45945 2001 AM_{17}	15.3	X	234.20759	174.64966	356.61732	2.83893	0.1625609	0.27548415	2.3392231	21	11 29.4	18.3
45946 2001 AU_{17}	15.0	X	352.99888	187.38978	312.45125	7.48204	0.1287643	0.23847596	2.5753701	21	—	—
45947 2001 AY_{17}	15.7	X	145.67006	140.08916	325.42487	3.81375	0.1254236	0.30378969	2.1915634	21	5 30.5	18.7
45948 2001 AP_{18}	14.7	X	23.42474	34.82358	152.81404	11.95431	0.0886058	0.24710729	2.5150445	21	3 30.1	17.5
45949 2001 AS_{23}	14.5	X	204.18405	117.59500	129.02138	14.96653	0.0642080	0.23378170	2.6097308	21	—	—
45950 2001 AL_{25}	15.8	X	226.89181	297.95341	138.23169	23.91015	0.1061437	0.35916153	1.9600907	21	7 23.5	18.3
45951 2001 AE_{29}	15.1	X	204.71669	168.72751	67.05761	8.18128	0.1362278	0.28548278	2.2842805	21	—	—
45952 2001 AS_{31}	15.2	X	205.02687	147.38767	315.08827	5.92930	0.0689257	0.26784222	2.3835084	21	8 4.1	18.2
45953 2001 AZ_{33}	15.1	X	240.94324	115.30339	54.00030	4.74419	0.2099214	0.27818958	2.3240322	21	11 29.1	18.0
45954 2001 AP_{38}	15.0	X	288.37143	213.92239	224.53389	22.26250	0.1371744	0.27344566	2.3508343	21	10 13.4	17.6
45955 2001 AK_{40}	14.8	X	243.64049	159.72032	85.50967	6.21720	0.1619594	0.23995306	2.5647902	21	—	—
45956 2001 AG_{41}	14.9	X	353.44793	330.92239	312.60219	10.08436	0.2394690	0.25808597	2.4432043	21	6 15.5	16.6
45957 2001 AQ_{44}	15.4	X	116.73025	89.18778	72.14395	3.15573	0.1407254	0.25923304	2.4359918	21	7 16.9	18.7
45958 2001 AF_{45}	15.1	X	143.27438	158.13117	129.88948	24.57514	0.1334379	0.27904729	2.3192675	21	—	—
45959 2001 AA_{51}	16.0	X	278.15110	324.13976	289.48044	3.96939	0.1447763	0.29470749	2.2363611	21	1 9.5	19.1
45960 2001 BX	15.6	X	87.31795	348.84158	327.68580	19.42092	0.0730806	0.37372214	1.9088428	21	—	—
45961 2001 BA_{6}	15.7	X	191.82063	150.26537	51.78391	6.51555	0.1132003	0.27505432	2.3416595	21	11 26.3	18.9
45962 2001 BM_{11}	15.9	X	30.16637	97.85003	270.23557	17.52897	0.1091003	0.37373643	1.9087941	21	—	—
45963 2001 BX_{14}	15.5	X	309.79589	261.02579	319.37144	2.81278	0.1236046	0.24315798	2.5422038	21	1 15.2	19.0
45964 2001 BE_{15}	15.6	X	282.09277	40.90445	132.42241	2.83235	0.0358545	0.28307434	2.2972189	21	—	—
45965 2001 BP_{20}	15.3	X	105.36197	196.66282	89.32865	7.16868	0.1257444	0.27516502	2.3410314	21	12 14.6	18.6
45966 2001 BS_{23}	15.8	X	255.17994	300.48727	306.07623	6.24145	0.1206574	0.29036575	2.2585990	21	—	—
45967 2001 BF_{24}	16.2	X	241.12599	265.27160	299.88881	3.36815	0.0927695	0.28302953	2.2974614	21	—	—
45968 2001 BG_{25}	14.6	X	150.12206	107.43353	125.83814	8.80142	0.0620477	0.22647427	2.6655703	21	11 18.9	18.6
45969 2001 BC_{26}	15.4	X	37.28225	109.66016	146.89178	6.56148	0.1270741	0.26152620	2.4217311	21	8 5.9	17.8
45970 2001 BZ_{27}	16.6	X	55.78297	12.99252	159.33953	3.26187	0.0836277	0.30152852	2.2025061	21	4 23.1	18.6
45971 2001 BF_{29}	16.1	X	195.38323	313.72050	301.86408	4.36747	0.1111891	0.28448034	2.2896436	21	—	—
45972 2001 BU_{30}	15.5	X	255.48009	20.38591	255.53018	6.13438	0.1672680	0.29357550	2.2421062	21	1 13.5	19.0
45973 2001 BP_{33}	15.3	X	91.64653	268.06868	298.85989	2.94048	0.1649326	0.25977639	2.4325938	21	8 20.4	18.7
45974 2001 BG_{35}	15.7	X	7.59541	331.79188	153.82623	7.60687	0.0754439	0.28774215	2.2723073	21	—	—
45975 2001 BV_{40}	14.3	X	25.45429	166.08058	317.85513	21.88714	0.0107120	0.23856452	2.5747327	21	1 11.2	17.9
45976 2001 BT_{41}	14.0	X	180.16966	138.48244	168.20105	16.58804	0.1081188	0.18523658	3.0477889	21	—	—
45977 2001 BU_{44}	15.1	X	228.18417	356.80413	122.52925	6.60792	0.1810720	0.26689421	2.3891492	21	9 13.9	18.5
45978 2001 BY_{44}	14.0	X	79.97473	173.36414	144.94859	13.59472	0.1892993	0.22076460	2.7113345	21	12 25.9	18.4
45979 2001 BZ_{46}	15.4	X	116.71231	332.69976	238.96560	8.83060	0.1652749	0.26538893	2.3981748	21	9 19.9	19.3
45980 2001 BT_{48}	15.0	X	287.83754	309.47931	270.10065	12.62156	0.1181454	0.24119162	2.5560023	21	—	—
45981 2001 BW_{50}	14.4	X	225.74389	165.71168	118.82023	15.20991	0.1635183	0.23906270	2.5711545	21	1 7.1	18.5
45982 2001 BE_{51}	14.9	X	233.82423	33.25638	200.77226	12.56228	0.1238930	0.23368904	2.6104206	21	—	—
45983 2001 BF_{54}	15.8	X	309.23053	31.60723	139.33360	4.77827	0.1131005	0.28615789	2.2806863	21	—	—
45984 2001 BK_{56}	15.3	X	237.20156	285.53226	332.57747	9.78308	0.2465611	0.23763683	2.5814292	21	—	—
45985 2001 BW_{59}	16.3	X	37.24745	265.69244	239.68582	4.30698	0.1009863	0.29466766	2.2365626	21	2 4.1	18.5
45986 2001 BC_{66}	15.2	X	193.76001	103.32056	128.46782	7.06849	0.0724609	0.27545160	2.3394073	21	—	—
45987 2001 BF_{66}	13.7	X	275.06756	108.10849	143.41167	12.14614	0.0689617	0.19104144	2.9857332	21	1 29.2	18.0
45988 2001 BK_{66}	14.7	X	159.46273	82.97152	142.46669	13.73530	0.0848499	0.22095492	2.7097773	21	11 19.6	19.1
45989 2001 BA_{67}	14.1	X	345.70439	311.10400	298.61304	15.53991	0.2601686	0.20044052	2.8916498	21	3 26.5	17.6
45990 2001 BT_{69}	14.7	X	154.22357	226.61251	120.23225	6.62011	0.1425442	0.28762370	2.2729311	21	1 4.4	17.7
45991 2001 BQ_{70}	14.4	X	359.73863	8.61601	293.84551	12.32788	0.1977261	0.26116447	2.4239667	21	8 5.3	16.1
45992 2001 BX_{70}	16.2	X	48.55966	11.62007	163.40219	3.69309	0.0417156	0.30149679	2.2026606	21	4 10.5	18.4
45993 2001 BE_{71}	15.9	X	283.14842	73.33766	129.92146	7.43078	0.0574305	0.28739301	2.2741473	21	—	—
45994 2001 BQ_{71}	15.9	X	146.10166	69.04478	139.75219	4.96174	0.0893736	0.26994022	2.3711425	21	10 19.7	19.3
45995 2001 BB_{72}	14.8	X	297.90214	286.68939	247.49744	10.53475	0.1999472	0.23542208	2.5975939	21	—	—
45996 2001 BY_{72}	14.9	X	301.23001	272.86841	288.23677	10.25992	0.1246137	0.23880836	2.5729798	21	—	—
45997 2001 BO_{73}	16.1	X	328.46659	353.49562	147.62919	3.34050	0.0472900	0.28497426	2.2869972	21	—	—
45998 2001 BZ_{75}	15.0	X	199.05118	351.60767	236.81779	5.37994	0.1314831	0.22936960	2.6430911	21	12 27.4	19.0
45999 2001 BE_{77}	15.9	X	79.40280	354.76047	107.33134	5.19344	0.1173561	0.29304013	2.2448362	21	2 22.5	18.0
46000 2001 BO_{79}	15.6	X	2.02571	175.94265	136.98529	6.84403	0.1194070	0.26475218	2.4020185	21	8 27.6	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46001 2001 CG_1	16.0	X	204.21538	105.10614	118.50049	5.80614	0.0813639	0.27870498	2.3211662	21	—	—
46002 2001 CB_3	15.7	X	267.39522	253.64805	347.61010	7.16695	0.0749850	0.28894362	2.2660039	21	—	—
46003 2001 CF_3	15.8	X	140.94073	156.40051	124.54508	5.96578	0.1345229	0.27676505	2.3320001	21	—	—
46004 2001 CF_4	15.4	X	221.82191	297.88702	334.86660	19.64661	0.1628370	0.28560458	2.2836311	21	—	—
46005 2001 CR_7	14.5	X	140.48669	139.37345	127.60965	9.53956	0.1864132	0.22549670	2.6732686	21	12 18.2	19.1
46006 2001 CB_{11}	15.8	X	75.39037	162.10592	52.11010	3.01126	0.1468377	0.25997699	2.4313423	21	8 9.1	18.8
46007 2001 CG_{12}	15.9	X	317.35104	31.12721	121.51689	7.88789	0.0726783	0.28583658	2.2823952	21	—	—
46008 2001 CY_{12}	14.3	X	239.71601	119.87696	124.65327	13.85480	0.1458885	0.23675429	2.5878404	21	—	—
46009 2001 CE_{13}	15.7	X	143.58448	260.09889	100.11034	5.54150	0.1952051	0.29173504	2.2515261	21	1 16.1	18.4
46010 2001 CU_{16}	15.4	X	254.62390	181.61473	85.54865	5.92763	0.1973843	0.24189194	2.5510665	21	1 9.9	19.5
46011 2001 CM_{19}	15.1	X	75.51654	68.45125	139.58280	4.68395	0.0389577	0.21185498	2.7868287	21	7 11.4	18.9
46012 2001 CM_{26}	14.3	X	294.17446	27.21342	130.61203	11.24730	0.0355419	0.18378154	3.0638545	21	—	—
46013 2001 CP_{26}	14.1	X	314.78127	47.99621	152.19993	10.90839	0.0409623	0.19101522	2.9860064	21	1 17.6	18.3
46014 2001 CF_{27}	15.4	X	29.09223	144.67117	61.84871	6.67493	0.1426220	0.25315127	2.4748525	21	5 6.7	17.5
46015 2001 CJ_{36}	15.1	X	148.78905	88.89218	94.83503	7.40181	0.0630280	0.26534537	2.3984373	21	9 20.4	18.5
46016 2001 CP_{41}	15.9	X	94.06098	122.11337	163.75286	4.95139	0.1272608	0.27166840	2.3610760	21	12 3.2	19.3
46017 2001 DP_3	15.1	X	235.31533	109.54972	48.68142	6.82304	0.1533455	0.18048529	3.1010457	21	11 1.9	19.8
46018 2001 DX_6	15.1	X	252.69457	296.60539	167.40899	2.66304	0.0381586	0.22229662	2.6988628	21	10 7.1	18.6
46019 2001 DT_9	14.4	X	153.86149	181.59044	118.45731	14.04796	0.0281988	0.23383303	2.6093488	21	—	—
46020 2001 DL_{11}	16.1	X	191.87001	132.65056	136.49249	3.65879	0.1013339	0.28177906	2.3042534	21	—	—
46021 2001 DZ_{14}	15.5	X	219.27816	32.59806	157.78587	11.84433	0.1131121	0.27558617	2.3386457	21	12 14.9	18.8
46022 2001 DE_{16}	15.0	X	307.38077	134.32575	37.77785	6.54371	0.1901725	0.23628461	2.5912686	21	—	—
46023 2001 DN_{16}	15.5	X	186.34311	234.05644	105.92579	7.99466	0.1574554	0.29179891	2.2511975	21	1 31.8	18.8
46024 2001 DC_{18}	13.8	X	121.08454	165.50052	131.45111	18.33203	0.2266855	0.17662308	3.1460896	21	12 31.6	19.4
46025 2001 DQ_{18}	14.9	X	268.60480	108.50300	109.77864	10.39883	0.0674808	0.23641126	2.5903430	21	—	—
46026 2001 DJ_{20}	14.9	X	221.75015	115.08991	119.85194	13.80604	0.1728277	0.23094815	2.6310336	21	—	—
46027 2001 DG_{21}	14.4	X	77.13217	157.93143	126.43423	15.85941	0.2548452	0.21635050	2.7480889	21	11 22.9	19.0
46028 2001 DT_{21}	14.9	X	222.59262	40.23874	111.96188	11.24163	0.1553781	0.22197232	2.7014909	21	10 21.8	19.2
46029 2001 DF_{22}	14.6	X	268.69027	85.63495	112.22588	14.14996	0.0960798	0.23303583	2.6152964	21	—	—
46030 2001 DQ_{25}	15.4	X	86.74159	159.20553	116.17101	3.22443	0.1904845	0.26778082	2.3838728	21	11 17.6	19.0
46031 2001 DB_{29}	15.5	X	78.55214	187.09886	111.84357	3.29350	0.2025456	0.26936688	2.3745059	21	12 9.7	19.1
46032 2001 DM_{29}	16.1	X	170.02851	246.82143	69.23118	3.20279	0.0113528	0.28617874	2.2805756	21	—	—
46033 2001 DG_{31}	14.7	X	71.83422	127.48947	141.92774	13.50196	0.1545703	0.21564466	2.7540823	21	10 18.5	18.8
46034 2001 DR_{31}	15.5	X	33.58069	179.77927	107.12216	4.14618	0.1302879	0.26173080	2.4204688	21	9 17.7	18.1
46035 2001 DM_{32}	15.8	X	173.58695	124.34692	138.90942	6.45829	0.0902178	0.27885903	2.3203112	21	—	—
46036 2001 DS_{32}	16.3	X	307.21840	268.12481	88.02440	4.09739	0.0907797	0.31113811	2.1569194	21	7 24.8	18.4
46037 2001 DF_{33}	13.8	X	71.48253	113.26097	170.33024	30.48038	0.3532073	0.21527846	2.7572047	21	11 25.5	19.0
46038 2001 DH_{33}	15.9	X	92.14107	349.54199	119.80666	6.48813	0.0565572	0.29659408	2.2268676	21	3 17.7	18.4
46039 2001 DW_{39}	15.6	X	35.24345	108.13128	175.54386	6.75728	0.1176810	0.26339252	2.4102777	21	9 11.1	18.3
46040 2001 DT_{44}	14.4	X	185.01317	242.33980	16.05763	1.16179	0.1237006	0.18185553	3.0854490	21	—	—
46041 2001 DX_{46}	15.0	X	258.11056	291.94724	316.20730	12.62357	0.1383246	0.23907891	2.5710382	21	—	—
46042 2001 DK_{54}	15.6	X	225.26740	342.28130	147.41926	6.45479	0.0883290	0.26712934	2.3877471	21	10 5.6	18.7
46043 2001 DR_{64}	15.2	X	252.04636	56.39522	174.19169	4.92731	0.2081486	0.23505337	2.6003096	21	—	—
46044 2001 DP_{68}	15.5	X	245.58377	269.03431	310.19876	0.57543	0.0830994	0.23362791	2.6108759	21	—	—
46045 2001 DU_{68}	14.1	X	217.45019	319.08306	173.95594	7.48835	0.0907914	0.17198631	3.2023844	21	9 19.3	18.9
46046 2001 DM_{70}	15.6	X	61.10060	112.76657	149.92623	6.50401	0.0871459	0.26241396	2.4162661	21	9 17.2	18.5
46047 2001 DN_{70}	13.5	X	229.94746	294.94537	348.23484	12.14848	0.3130339	0.18703422	3.0282287	21	1 15.9	19.2
46048 2001 DJ_{71}	15.4	X	92.84979	121.09272	166.69173	2.44201	0.2069282	0.26832913	2.3806241	21	12 9.3	19.2
46049 2001 DL_{73}	16.0	X	200.01616	74.55545	336.29887	3.11857	0.1313736	0.30436115	2.1888193	21	5 14.2	19.2
46050 2001 DM_{74}	14.8	X	328.99477	258.20841	306.01627	1.16670	0.2415211	0.19053285	2.9910441	21	1 13.1	18.7
46051 2001 DQ_{74}	15.0	X	12.86298	342.66234	186.13659	6.11443	0.1737461	0.24149660	2.5538499	21	2 2.5	17.6
46052 2001 DD_{76}	15.6	X	225.48636	198.42906	171.02493	4.01382	0.1943316	0.30358648	2.1925412	21	4 14.6	19.1
46053 Davidpatterson	16.3	X	290.78470	76.91343	337.91706	3.82651	0.0867923	0.31571228	2.1360352	21	9 27.3	18.2
46054 2001 DC_{80}	14.5	X	251.45660	22.01626	186.29598	16.62596	0.1417398	0.18447072	3.0562186	21	—	—
46055 2001 DA_{83}	15.4	X	276.04063	66.65560	145.59248	2.69133	0.0883890	0.23606966	2.5928413	21	—	—
46056 2001 DD_{87}	14.7	X	297.31636	190.32442	305.32562	13.88172	0.0936123	0.22884882	2.6470995	21	—	—
46057 2001 DT_{87}	14.9	X	276.00055	91.64512	160.25205	7.06579	0.1701915	0.24311462	2.5425061	21	1 11.3	18.9
46058 2001 DE_{88}	14.9	X	163.55807	87.61685	204.89103	11.79550	0.1569912	0.22857292	2.6492292	21	—	—
46059 2001 DJ_{88}	15.3	X	220.68915	27.36288	275.93711	7.08222	0.1600258	0.28764767	2.2728048	21	1 17.0	18.7
46060 2001 DL_{88}	14.8	X	191.50294	111.16804	214.01613	9.14940	0.0238252	0.19256787	2.9699343	21	1 24.3	19.3
46061 2001 DC_{90}	14.9	X	316.18606	343.80752	203.24975	14.07672	0.1099228	0.23844779	2.5755729	21	—	—
46062 2001 DT_{91}	14.1	X	108.48397	45.42518	232.33423	10.90894	0.1706162	0.22362336	2.6881775	21	12 2.6	18.3
46063 2001 DV_{91}	15.2	X	91.63047	332.31530	342.99451	8.33181	0.1997520	0.27268436	2.3552078	21	—	—
46064 2001 DH_{92}	13.6	X	194.75721	63.90795	200.87591	14.03513	0.1952034	0.18243226	3.0789429	21	—	—
46065 2001 DB_{93}	15.9	X	110.99321	110.00931	171.40762	5.99797	0.0941532	0.27274514	2.3548579	21	12 12.9	19.3
46066 2001 DV_{95}	15.7	X	43.37062	145.79093	111.31001	3.65286	0.1481332	0.26154015	2.4216450	21	8 22.7	18.3
46067 2001 DY_{99}	13.8	X	91.45176	126.16508	172.88036	15.58050	0.0736943	0.16932249	3.2358841	21	11 26.7	18.8
46068 2001 DM_{100}	16.5	X	358.80019	126.68723	172.92320	1.06005	0.0963646	0.31065838	2.1591393	21	7 31.1	18.2
46069 2001 DY_{100}	15.3	X	55.92209	95.03837	106.85780	9.17693	0.1479803	0.25527975	2.4610766	21	6 20.8	17.9
46070 2001 DV_{101}	15.8	X	296.37459	230.16570	69.33662	6.35684	0.1367230	0.30091408	2.2055033	21	4 5.4	18.6
46071 2001 DQ_{103}	14.7	X	239.96554	3.08594	205.45803	4.66874	0.1300234	0.18428670	3.0582529	21	—	—
46072 2001 EJ	13.7	X	142.84992	77.58457	176.01997	8.38535	0.1453270	0.17297714	3.1901436	21	11 28.2	19.0
46073 2001 EA_1	15.5	X	78.76648	102.66110	87.28516	7.00186	0.0796473	0.25722921	2.4486264	21	6 27.6	18.3
46074 2001 EK_1	14.2	X	145.83374	122.62421	96.61652	9.67172	0.2206388	0.21927922	2.7235650	21	10 30.6	19.0
46075 2001 EK_3	15.6	X	113.90098	323.43640	288.42950	7.76795	0.0925296	0.27031680	2.3689398	21	11 4.6	19.1
46076 2001 EH_4	15.2	X	252.28513	276.69229	136.76484	5.22898	0.0684114	0.21354426	2.7721121	21	7 25.4	18.9
46077 2001 EJ_5	14.3	X	177.37777	155.03755	136.75411	9.14532	0.0776040	0.18444898	3.0564587	21	—	—
46078 2001 ET_6	14.7	X	193.74985	282.77083	45.71687	5.59440	0.1554702	0.23910632	2.5708418	21	2 2.1	18.9
46079 2001 EB_7	15.9	X	201.57575	77.14386	83.95554	3.65264	0.0919605	0.26837174	2.3803722	21	10 18.2	19.1
46080 2001 EV_9	15.3	X	103.32719	112.61477	140.05619	4.47159	0.0722359	0.21727805	2.7402624	21	10 20.7	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46081 2001 EB_{10}	14.9	X	1.97101	170.54367	123.02013	2.89220	0.0734819	0.20878152	2.8141118	21	7 23.1	18.4
46082 2001 EC_{10}	15.2	X	144.83235	206.62563	116.24823	3.61827	0.0519183	0.23277030	2.6172849	21	—	—
46083 2001 ED_{10}	13.8	X	64.97451	152.63420	150.78219	9.25088	0.2777917	0.21645868	2.7471732	21	12 3.7	18.2
46084 2001 EU_{10}	14.4	X	163.51428	179.50868	166.50253	10.90356	0.1368992	0.18885068	3.0087794	21	1 28.6	19.2
46085 2001 EL_{11}	14.6	X	158.24763	135.37166	180.22332	14.85744	0.1354276	0.22851072	2.6497099	21	—	—
46086 2001 EN_{11}	14.1	X	237.30990	42.96130	160.63713	13.47942	0.0662171	0.17757514	3.1348344	21	—	—
46087 2001 EQ_{11}	13.9	X	315.47069	32.48499	133.17155	14.13062	0.0831571	0.23263870	2.6182719	21	—	—
46088 2001 EO_{12}	13.8	X	289.40219	80.56180	109.22347	18.04483	0.1595820	0.18853928	3.0120915	21	—	—
46089 2001 EC_{14}	14.3	X	160.32879	202.51334	110.30066	14.31602	0.1434861	0.23363646	2.6108123	21	—	—
46090 2001 EJ_{15}	15.5	X	181.12011	317.48789	12.02720	5.24806	0.1772102	0.28685015	2.2770155	21	1 16.1	18.9
46091 2001 ES_{15}	14.3	X	77.15260	204.46406	118.90188	11.72824	0.1883366	0.22012599	2.7165758	21	12 28.8	18.6
46092 2001 EP_{16}	14.5	X	107.47450	47.82068	202.08455	12.56232	0.1375670	0.21676281	2.7446030	21	10 26.5	18.6
46093 2001 EL_{17}	13.8	X	344.05249	301.01341	147.93735	28.86396	0.2066130	0.22873610	2.6479691	21	—	—
46094 2001 EX_{21}	14.4	X	241.19395	3.10455	206.14410	10.48246	0.0881035	0.18360389	3.0658304	21	—	—
46095 Frédérickoby	14.5	X	158.12676	135.41386	91.20904	10.78807	0.0805871	0.17502371	3.1652265	21	11 12.5	19.4
46096 2001 FB	15.4	X	274.35816	292.63878	172.28194	26.93490	0.1208497	0.36759049	1.9300114	21	11 30.6	17.7
46097 2001 FN_{1}	14.8	X	126.82395	348.93267	343.19328	7.44901	0.1468585	0.27874056	2.3209687	21	—	—
46098 2001 FH_{2}	16.3	X	118.74170	244.60698	265.99575	4.90737	0.0613654	0.30655835	2.1783481	21	6 23.5	18.9
46099 2001 FD_{5}	14.8	X	61.19304	145.07964	177.05009	23.38071	0.2282769	0.27012415	2.3700660	21	12 24.1	18.9
46100 2001 FD_{6}	14.3	X	155.70131	187.69544	62.14482	2.15352	0.1900939	0.17462751	3.1700122	21	12 3.5	19.5
46101 2001 FK_{8}	13.8	X	209.44673	37.27037	216.78124	12.32184	0.0764664	0.17901083	3.1180508	21	—	—
46102 2001 FR_{9}	14.0	X	118.70985	128.01867	258.15906	9.52333	0.1083359	0.19158322	2.9801016	21	1 24.2	18.4
46103 2001 FQ_{12}	14.4	X	67.41288	213.86017	59.94189	2.78669	0.0432910	0.21434118	2.7652366	21	9 28.8	18.1
46104 2001 FR_{12}	14.0	X	124.62014	186.72349	170.22171	12.75411	0.0576481	0.18497408	3.0506716	21	—	—
46105 2001 FQ_{14}	14.4	X	270.28762	290.23984	185.80448	9.30753	0.0484520	0.17424621	3.1746351	21	11 6.7	18.8
46106 2001 FA_{16}	15.6	X	354.99200	188.95246	183.37284	8.16613	0.0808742	0.26751052	2.3854783	21	11 10.5	18.2
46107 2001 FP_{17}	15.1	X	133.32785	181.09014	355.83910	6.45061	0.0823221	0.25934006	2.4353215	21	8 22.0	18.5
46108 2001 FW_{18}	15.5	X	234.10721	57.09977	281.80107	2.03318	0.1831406	0.29369959	2.2414746	21	3 13.3	19.0
46109 2001 FG_{23}	13.7	X	168.30026	183.81860	69.27943	4.41726	0.1473487	0.17367138	3.1816364	21	12 17.9	18.9
46110 2001 FK_{23}	15.6	X	312.40790	324.05303	132.05871	4.48226	0.1175760	0.27309263	2.3528599	21	12 28.8	17.8
46111 2001 FR_{24}	14.7	X	127.20145	320.74099	324.87569	12.11835	0.1626681	0.22352046	2.6890024	21	12 28.9	19.3
46112 2001 FA_{26}	14.2	X	45.35969	112.11754	199.73930	13.01195	0.2015280	0.21304305	2.7764582	21	11 11.6	17.9
46113 2001 FT_{29}	14.6	X	192.03005	152.77924	152.58729	15.24718	0.1312142	0.23385445	2.6091895	21	1 1.6	18.9
46114 2001 FX_{29}	14.5	X	108.06909	31.46911	241.21100	13.09906	0.1713167	0.22029293	2.7152033	21	11 25.6	18.8
46115 2001 FP_{33}	14.1	X	347.16382	338.51069	173.70582	10.89945	0.0481877	0.19060860	2.9902515	21	—	—
46116 2001 FY_{33}	16.2	X	77.95356	289.17229	216.93271	3.92643	0.0966122	0.29983390	2.2107971	21	4 21.6	18.4
46117 2001 FD_{34}	16.0	X	252.99550	11.00395	196.51465	5.23307	0.0783686	0.28198859	2.3031118	21	—	—
46118 2001 FL_{34}	15.3	X	288.51732	308.01343	294.99727	5.22403	0.1057291	0.29047085	2.2580541	21	1 11.7	18.3
46119 2001 FU_{34}	15.1	X	316.80853	161.68093	155.81968	2.88713	0.1979622	0.25466588	2.4650300	21	5 24.7	17.8
46120 2001 FY_{34}	15.2	X	73.83537	146.12940	163.60256	8.02224	0.2673788	0.26809083	2.3820346	21	12 23.8	19.1
46121 2001 FB_{36}	14.8	X	101.29745	281.34594	354.45169	5.72918	0.0800941	0.22041010	2.7142409	21	11 13.7	18.8
46122 2001 FJ_{37}	15.3	X	268.46919	32.01881	190.16341	6.98059	0.1469319	0.23491791	2.6013091	21	—	—
46123 2001 FW_{37}	14.4	X	144.76602	354.23362	184.42550	18.78425	0.0344723	0.21448788	2.7639756	21	8 27.7	18.5
46124 2001 FU_{40}	15.0	X	323.84851	236.55984	100.51388	1.65489	0.2099416	0.25755517	2.4465600	21	7 5.6	16.8
46125 2001 FB_{43}	14.6	X	10.99107	20.46739	282.19826	1.29871	0.1309724	0.25814694	2.4428196	21	8 27.9	16.9
46126 2001 FN_{45}	14.5	X	226.59421	110.17304	13.49188	4.71875	0.0301996	0.21603985	2.7507227	21	9 29.3	18.3
46127 2001 FS_{45}	14.4	X	320.99817	260.98005	351.24013	4.35044	0.1172545	0.24434195	2.5339849	21	3 12.9	17.5
46128 2001 FU_{45}	14.9	X	107.33296	4.89823	317.14867	5.23294	0.1805327	0.27418747	2.3465923	21	—	—
46129 2001 FP_{46}	15.3	X	353.31865	187.39633	181.89544	2.67665	0.1065902	0.26564185	2.3966524	21	11 4.1	17.5
46130 2001 FQ_{46}	15.0	X	65.57549	147.23547	189.46296	5.79641	0.0297798	0.22228672	2.6989430	21	12 13.9	18.7
46131 2001 FW_{47}	14.9	X	155.53691	331.69990	213.19145	4.35201	0.1137339	0.21504669	2.7591853	21	9 20.7	19.3
46132 2001 FG_{49}	15.4	X	341.68736	230.18597	283.04859	3.29997	0.2185919	0.23714210	2.5850182	21	—	—
46133 2001 FT_{50}	15.6	X	262.11271	32.27325	356.01609	5.37107	0.0688863	0.25732550	2.4480155	21	7 5.5	18.8
46134 2001 FH_{53}	14.6	X	350.37035	172.74546	46.88987	2.60910	0.0331006	0.19524094	2.9427642	21	3 30.9	18.4
46135 2001 FF_{56}	14.2	X	60.05466	91.15549	213.11921	8.10816	0.1492384	0.21542923	2.7559180	21	11 12.3	17.9
46136 2001 FH_{56}	14.1	X	188.81932	254.36550	302.89849	3.47272	0.1207535	0.17238966	3.1973873	21	11 2.2	19.1
46137 2001 FN_{56}	13.4	X	91.09342	118.30697	202.01304	21.63289	0.0364317	0.17330831	3.1860784	21	12 14.5	18.4
46138 2001 FR_{56}	14.6	X	136.93172	166.94849	175.40031	16.75214	0.2123271	0.22969496	2.6405946	21	—	—
46139 2001 FV_{56}	14.3	X	263.09738	60.48283	156.28609	11.54872	0.1252723	0.18301761	3.0723743	21	—	—
46140 2001 FU_{57}	14.2	X	130.63229	343.46244	239.64090	8.39891	0.0910741	0.21539143	2.7562404	21	10 10.7	18.5
46141 2001 FY_{57}	14.2	X	158.18613	108.08215	113.50779	15.40581	0.0845056	0.17006872	3.2264115	21	11 8.9	19.4
46142 2001 FN_{58}	14.1	X	238.08383	256.20655	220.68523	16.08828	0.1567766	0.17194297	3.2029225	21	9 9.5	19.3
46143 2001 FO_{60}	14.1	X	135.02929	138.12880	109.56460	2.54628	0.0585409	0.17316796	3.1877996	21	11 10.6	18.9
46144 2001 FB_{63}	15.7	X	214.54224	215.87336	124.75535	2.74002	0.0542186	0.24488175	2.5302597	21	3 6.5	19.3
46145 2001 FC_{63}	14.8	X	217.76569	278.28937	88.08396	3.33112	0.1207495	0.20098964	2.8863806	21	4 14.6	19.4
46146 2001 FP_{64}	15.3	X	194.83650	26.63222	153.60998	4.61727	0.1188525	0.22051563	2.7133749	21	10 27.3	19.4
46147 2001 FK_{66}	15.0	X	128.31380	182.82681	151.24797	7.82092	0.0298189	0.23156818	2.6263351	21	—	—
46148 2001 FC_{67}	15.2	X	11.32621	277.97762	43.03062	6.61487	0.1378124	0.26104633	2.4246980	21	9 30.7	17.6
46149 2001 FJ_{67}	13.9	X	220.51149	313.90336	169.23937	15.25574	0.1675034	0.16923262	3.2370296	21	9 2.7	19.2
46150 2001 FY_{67}	15.1	X	240.52717	79.42799	170.37134	15.22603	0.0698100	0.23427193	2.6060888	21	—	—
46151 2001 FS_{68}	13.7	X	192.63387	174.80186	162.64476	11.05687	0.1021355	0.19076810	2.9885845	21	2 13.6	18.5
46152 2001 FV_{68}	15.3	X	239.84293	226.63421	101.82410	4.49775	0.0513597	0.24526604	2.5276161	21	3 21.9	18.8
46153 2001 FH_{69}	15.5	X	68.60923	59.76536	82.43530	4.18069	0.0751011	0.24686932	2.5166605	21	4 7.1	18.4
46154 2001 FL_{70}	14.1	X	222.45563	85.79955	151.21562	4.64799	0.1576501	0.18022136	3.1040726	21	—	—
46155 2001 FS_{70}	15.0	X	119.94557	155.86214	126.71605	3.19072	0.0637859	0.22199459	2.7013102	21	12 13.5	18.8
46156 2001 FR_{72}	14.7	X	33.24189	156.68073	159.78402	5.47078	0.1559618	0.21313735	2.7756391	21	10 25.1	18.1
46157 2001 FZ_{72}	15.0	X	222.53156	96.03606	88.24174	5.45883	0.0385404	0.22318647	2.6916844	21	12 10.1	18.7
46158 2001 FC_{73}	14.5	X	146.93184	218.00686	169.60652	14.06729	0.1856552	0.24043238	2.5613804	21	3 1.4	18.4
46159 2001 FO_{73}	14.6	X	180.60635	98.86090	150.32134	5.51705	0.1069437	0.17634559	3.1493891	21	12 26.7	19.5
46160 2001 FE_{78}	13.6	X	172.39139	37.11710	195.94587	22.34148	0.0676540	0.17196130	3.2026948	21	12 1.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46161 2001 FK_{78}	15.1	X	273.60797	328.16629	174.40101	8.76592	0.2184750	0.22581444	2.6707603	21	11 29.8	18.4
46162 2001 FM_{78}	14.7	X	342.10337	334.45459	188.51440	14.41724	0.0289092	0.23446204	2.6046799	21	—	—
46163 2001 FV_{79}	14.9	X	44.81843	4.03496	334.36831	10.63326	0.1016720	0.26769692	2.3843708	21	12 7.9	18.1
46164 2001 FZ_{79}	14.8	X	294.53028	172.23751	319.85452	8.62612	0.0521476	0.22639106	2.6662234	21	—	—
46165 2001 FF_{80}	14.7	X	219.81034	218.52050	290.87809	7.65756	0.2199627	0.22025952	2.7154778	21	9 29.6	19.3
46166 2001 FF_{82}	14.8	X	93.42556	23.18148	235.36304	8.13823	0.1072883	0.21546287	2.7556311	21	10 16.8	18.9
46167 2001 FX_{83}	16.3	X	142.68856	264.36837	12.32414	3.19102	0.0249353	0.27534199	2.3400282	21	—	—
46168 2001 FK_{86}	14.6	X	156.01753	78.18088	130.02337	2.01230	0.2223594	0.16805627	3.2521176	21	10 18.3	20.2
46169 2001 FY_{87}	14.8	X	6.67035	243.04125	73.78767	6.89910	0.0555941	0.21137199	2.7910724	21	9 4.1	18.4
46170 2001 FG_{90}	13.9	X	57.53644	327.18686	180.82178	14.70774	0.1437423	0.24236846	2.5477217	21	4 5.7	16.6
46171 2001 FV_{90}	14.7	X	245.07212	331.72667	180.35132	14.04037	0.1083769	0.22252675	2.6970018	21	11 19.7	18.6
46172 2001 FB_{92}	15.1	X	50.61871	215.27232	81.37807	7.41439	0.1887297	0.26434354	2.4044934	21	11 5.8	18.2
46173 2001 FQ_{92}	14.2	X	148.37221	170.24644	136.77355	15.14903	0.1727962	0.22965587	2.6408943	21	—	—
46174 2001 FB_{93}	14.9	X	37.71537	217.87891	138.75952	13.80994	0.1177487	0.22506811	2.6766612	21	12 18.4	18.6
46175 2001 FR_{93}	15.9	X	207.03077	20.43222	129.08120	7.09065	0.0611880	0.26744946	2.3858414	21	10 14.1	19.1
46176 2001 FX_{94}	15.1	X	127.81307	166.01517	54.81373	9.41397	0.0338248	0.21640534	2.7476247	21	10 7.6	19.0
46177 2001 FW_{97}	13.8	X	110.97092	119.23929	170.53101	18.17616	0.1401430	0.17096421	3.2151353	21	12 10.9	19.2
46178 2001 FA_{98}	13.7	X	213.72670	151.58082	125.94373	12.88110	0.0624318	0.18505646	3.0497662	21	—	—
46179 2001 FD_{98}	14.3	X	32.45630	238.95548	108.33109	10.25539	0.1775556	0.21756627	2.7378417	21	12 6.8	17.8
46180 2001 FX_{101}	15.5	X	327.62255	248.68440	242.22200	5.77906	0.1082042	0.28259392	2.2998217	21	—	—
46181 2001 FM_{113}	14.5	X	260.93253	332.91027	332.14486	10.78320	0.1674227	0.24163913	2.5528456	21	3 2.5	18.5
46182 2001 FD_{119}	15.8	X	132.83749	175.58539	272.86927	5.32474	0.1103014	0.30009831	2.2094984	21	4 17.4	18.6
46183 2001 FH_{119}	14.5	X	249.82513	264.51660	308.05361	12.06915	0.1012692	0.23066205	2.6332087	21	—	—
46184 2001 FM_{120}	15.3	X	173.98068	119.00828	164.32846	11.60487	0.1657112	0.22763791	2.6564786	21	—	—
46185 2001 FF_{124}	14.8	X	152.54656	150.69348	195.70623	9.37453	0.1387356	0.23624416	2.5915643	21	1 10.3	18.7
46186 2001 FS_{124}	15.1	X	332.75784	185.60191	159.42032	3.17849	0.1931453	0.25936888	2.4351412	21	8 11.2	17.0
46187 2001 FW_{126}	14.1	X	103.29269	174.52326	158.23004	12.94598	0.1795717	0.22583832	2.6705720	21	—	—
46188 2001 FW_{134}	14.8	X	345.50118	295.99179	228.35175	11.56337	0.1127581	0.24031210	2.5622350	21	—	—
46189 2001 FN_{135}	14.5	X	290.35128	293.61471	265.40718	15.92423	0.1107151	0.23631393	2.5910542	21	—	—
46190 2001 FV_{135}	15.1	X	348.95431	206.81729	317.77061	15.15833	0.0904580	0.23903025	2.5713872	21	1 3.1	18.4
46191 2001 FS_{140}	14.5	X	2.99483	243.44897	163.69883	10.38413	0.0610126	0.17662165	3.1461066	21	12 15.7	18.8
46192 2001 FG_{141}	15.2	X	79.84999	166.95062	170.16319	9.75163	0.0760218	0.22535742	2.6743699	21	—	—
46193 2001 FW_{141}	14.9	X	326.11847	168.34830	154.26900	2.51136	0.0664313	0.20704327	2.8298405	21	7 6.5	18.3
46194 2001 FR_{143}	15.3	X	6.09881	235.79564	134.19811	6.68089	0.1233646	0.26585990	2.3953418	21	11 30.2	17.9
46195 2001 FM_{144}	14.8	X	52.87342	126.76833	157.24757	4.82788	0.0343539	0.21142314	2.7906222	21	9 20.8	18.5
46196 2001 FH_{145}	14.4	X	86.88434	312.33582	80.72954	9.48438	0.2075207	0.23048866	2.6345291	21	—	—
46197 2001 FK_{146}	15.1	X	156.42763	169.33971	324.73355	9.65785	0.0946684	0.25818689	2.4425676	21	7 22.3	18.7
46198 2001 FS_{147}	14.6	X	172.70544	56.50919	224.83099	14.04982	0.0900689	0.22859512	2.6490577	21	—	—
46199 2001 FX_{147}	14.8	X	219.50277	48.70442	258.81540	8.64083	0.1557975	0.23766269	2.5812420	21	1 26.7	19.0
46200 2001 FE_{148}	14.9	X	171.82104	356.99804	314.34852	10.99931	0.1436161	0.23214832	2.6219577	21	—	—
46201 2001 FS_{148}	15.1	X	281.08229	330.12211	220.64148	12.58781	0.1695655	0.23303372	2.6153122	21	—	—
46202 2001 FR_{151}	14.8	X	173.16040	147.27229	108.76130	15.64657	0.0234952	0.22632932	2.6667083	21	—	—
46203 2001 FB_{153}	15.0	X	41.70084	144.71608	173.63915	9.03706	0.1531958	0.21544121	2.7558159	21	11 8.9	18.6
46204 2001 FC_{155}	14.2	X	107.53850	182.95793	110.02753	2.84821	0.2654275	0.16874921	3.2432085	21	12 17.6	19.7
46205 2001 FV_{155}	14.5	X	221.05578	94.54467	234.70785	13.77322	0.1413839	0.23990568	2.5651279	21	2 19.6	18.9
46206 2001 FS_{156}	14.8	X	301.37033	147.68947	309.94194	10.03924	0.0361888	0.22293267	2.6937269	21	12 1.9	18.5
46207 2001 FF_{158}	15.6	X	60.58794	37.90912	61.73043	7.10788	0.1499246	0.28982550	2.2614049	21	1 16.3	17.4
46208 2001 FB_{160}	14.7	X	154.15571	251.58847	20.53677	0.57344	0.1610295	0.17422960	3.1748369	21	12 27.5	19.9
46209 2001 FK_{160}	13.9	X	193.52708	232.34279	201.31221	16.54632	0.0546634	0.20679225	2.8321302	21	6 12.6	18.3
46210 2001 FX_{160}	15.2	X	89.61593	155.49657	199.71843	7.36524	0.1295047	0.27563605	2.3383636	21	—	—
46211 2001 FO_{161}	14.1	X	229.76381	30.06618	220.16698	9.04105	0.0573425	0.18177707	3.0863368	21	—	—
46212 2001 FD_{162}	14.0	X	338.18014	23.07663	206.35404	11.99266	0.0372283	0.19536971	2.9414710	21	3 23.7	18.1
46213 2001 FN_{162}	14.8	X	177.67399	352.67284	116.78174	12.02462	0.1799148	0.25877774	2.4388482	21	7 11.3	18.8
46214 2001 FX_{166}	14.6	X	141.13312	37.66985	261.93438	9.86724	0.1571490	0.22968065	2.6407044	21	—	—
46215 2001 FX_{170}	14.8	X	172.32129	292.47767	209.70661	10.86084	0.0957651	0.20994948	2.8036654	21	8 12.3	19.4
46216 2001 FK_{171}	14.6	X	192.32212	129.04239	135.09339	15.57875	0.0938480	0.22961012	2.6412450	21	—	—
46217 2001 FK_{176}	15.2	X	201.57527	150.37186	146.38683	15.57628	0.0686574	0.23564134	2.5959823	21	—	—
46218 2001 FV_{177}	14.1	X	123.19869	140.80342	213.60196	10.41013	0.1095315	0.18301334	3.0724222	21	—	—
46219 2001 FB_{187}	15.0	X	106.73139	332.71512	299.71963	9.79368	0.1202260	0.22047704	2.7136915	21	11 18.4	19.3
46220 2001 FW_{189}	14.3	X	126.79020	328.78169	342.92380	0.51406	0.1990004	0.17786585	3.1314177	21	—	—
46221 2001 GP	14.4	X	19.92190	336.49766	212.05025	9.68895	0.0708468	0.19333143	2.9621092	21	3 29.2	18.1
46222 2001 GJ_{5}	13.7	X	139.86806	138.87565	154.56940	14.81740	0.2725757	0.17459398	3.1704181	21	—	—
46223 2001 GV_{7}	15.1	X	350.48418	15.60981	136.56775	8.25764	0.1413436	0.23676562	2.5877578	21	—	—
46224 2001 GN_{10}	14.8	X	211.02222	125.33542	146.44343	1.33466	0.1015763	0.18269032	3.0760426	21	—	—
46225 2001 GV_{10}	14.6	X	154.87132	63.20600	193.64198	5.86947	0.1360573	0.17310944	3.1885181	21	12 11.2	19.8
46226 2001 HP_{2}	13.3	X	231.54163	70.47888	218.94317	8.62700	0.0711342	0.18526745	3.0474504	21	1 26.4	18.0
46227 2001 HQ_{2}	13.6	X	184.62573	98.68792	223.52828	20.92221	0.0965872	0.18271644	3.0757496	21	1 15.5	18.8
46228 2001 HZ_{2}	14.6	X	165.02675	218.67599	40.48086	1.13355	0.1514337	0.17321514	3.1872208	21	12 21.9	19.9
46229 2001 HQ_{3}	14.9	X	262.93261	354.14795	207.33806	13.47401	0.1081156	0.23124643	2.6287706	21	—	—
46230 2001 HZ_{4}	14.4	X	206.54862	60.95525	239.73893	12.33933	0.1874039	0.23193225	2.6235859	21	1 8.9	18.9
46231 2001 HM_{5}	12.7	X	167.99145	354.76500	238.95944	10.70897	0.1067590	0.17098459	3.2148797	21	11 26.5	17.7
46232 2001 HS_{7}	13.9	X	328.78297	111.09182	211.41054	11.14408	0.1851805	0.20155568	2.8809741	21	6 26.3	17.2
46233 2001 HF_{9}	14.8	X	202.38056	142.61471	201.59770	13.09172	0.1911933	0.23650168	2.5896828	21	2 24.2	19.4
46234 2001 HK_{9}	13.5	X	249.72866	123.03508	207.44805	9.55636	0.2279565	0.19135217	2.9825000	21	3 23.0	18.5
46235 2001 HX_{9}	14.3	X	56.48203	45.83014	244.90511	6.88961	0.1659091	0.21307653	2.7761673	21	10 21.6	18.2
46236 2001 HA_{10}	15.2	X	30.81632	292.83800	207.19949	13.87424	0.0759262	0.23747092	2.5826314	21	1 29.2	18.6
46237 2001 HB_{10}	14.1	X	140.95664	104.66010	227.42810	11.58910	0.2725577	0.22892056	2.6465464	21	—	—
46238 2001 HE_{10}	15.0	X	110.07632	25.04098	315.47442	5.81210	0.1443076	0.27620759	2.3351367	21	—	—
46239 2001 HX_{10}	14.3	X	101.67146	248.14815	207.78164	12.68434	0.1259072	0.24216557	2.5491445	21	3 27.2	17.5
46240 2001 HT_{11}	14.8	X	1.45648	296.57921	38.24022	6.37555	0.0103408	0.21179538	2.7873515	21	9 17.6	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46241 2001 HG_{12}	14.4	X	267.84438	77.45990	212.10779	8.68388	0.0298167	0.19235067	2.9721695	21	3 10.5	18.7
46242 2001 HQ_{12}	14.4	X	330.01711	297.13928	214.45137	9.89377	0.0322766	0.18222386	3.0812899	21	—	—
46243 2001 HR_{12}	14.6	X	260.57226	283.61262	213.74215	16.32936	0.0880721	0.22086520	2.7105111	21	11 22.2	18.2
46244 2001 HU_{15}	12.8	X	96.13757	260.89522	105.84496	22.76279	0.1755688	0.17567920	3.1573482	21	—	—
46245 2001 HU_{20}	13.7	X	158.14140	109.29297	240.07959	9.37269	0.1116868	0.18133694	3.0913287	21	1 25.1	18.6
46246 2001 HX_{20}	14.1	X	115.90573	88.74134	218.07809	6.36690	0.1683480	0.17221198	3.1995861	21	—	—
46247 2001 HG_{22}	14.4	X	263.64054	294.56351	75.33739	3.26050	0.0575909	0.20189020	2.8777908	21	6 13.9	18.5
46248 2001 HM_{22}	13.5	X	218.69839	94.86499	175.42899	16.80892	0.0932572	0.18059628	3.0997751	21	—	—
46249 2001 HQ_{22}	14.7	X	203.72316	95.81197	111.91672	2.44637	0.1349951	0.17258443	3.1949812	21	11 29.0	19.7
46250 2001 HP_{28}	13.6	X	214.12115	45.04022	229.64396	4.09541	0.1219189	0.17960412	3.1111803	21	—	—
46251 2001 HO_{31}	13.8	X	110.09364	279.39768	129.90635	10.18625	0.0591825	0.18509027	3.0493948	21	2 8.2	18.0
46252 2001 HH_{32}	14.0	X	261.17585	287.78930	215.70466	16.29120	0.1608837	0.17223425	3.1993103	21	11 11.5	18.5
46253 2001 HW_{34}	13.9	X	130.61422	130.16791	227.09738	9.02891	0.1000501	0.17966086	3.1105253	21	1 5.8	18.6
46254 2001 HB_{36}	14.1	X	284.62599	298.40820	235.45933	15.15733	0.1752381	0.17984559	3.1083949	21	—	—
46255 2001 HZ_{36}	13.6	X	127.47556	75.23383	251.40201	9.78018	0.1975885	0.17228222	3.1987165	21	—	—
46256 2001 HR_{40}	14.9	X	244.62607	9.21517	157.44808	15.60114	0.0401808	0.22160702	2.7044588	21	12 16.5	18.9
46257 2001 HF_{44}	13.4	X	173.14075	139.51562	208.40711	22.37072	0.2543949	0.18415317	3.0597311	21	2 10.9	19.1
46258 2001 HE_{45}	14.9	X	110.79276	60.61238	306.40938	3.88372	0.1623080	0.27991542	2.3144697	21	—	—
46259 2001 HR_{45}	14.3	X	55.70412	196.25011	115.91079	10.44108	0.1477987	0.21490802	2.7603721	21	11 19.3	18.2
46260 2001 HC_{46}	13.7	X	24.45933	297.20361	90.66762	11.40454	0.0494437	0.17318999	3.1875294	21	12 17.9	18.0
46261 2001 HA_{47}	14.3	X	227.17001	62.01115	236.09508	14.53800	0.0553175	0.23877395	2.5732270	21	1 21.6	18.3
46262 2001 HX_{47}	14.2	X	206.28185	307.07933	288.28035	11.53331	0.1399392	0.22662007	2.6644269	21	—	—
46263 2001 HH_{48}	13.5	X	271.87909	0.25000	143.79116	17.91768	0.0607145	0.17715317	3.1398105	21	12 12.5	18.1
46264 2001 HB_{50}	14.5	X	346.60735	347.07712	236.45399	7.47982	0.0428434	0.19292294	2.9662890	21	3 26.5	18.6
46265 2001 HC_{51}	14.5	X	203.93899	68.96302	225.45068	10.17668	0.1270950	0.18411589	3.0601440	21	1 6.2	19.5
46266 2001 HE_{52}	14.4	X	266.62730	40.26435	236.69661	8.59075	0.0414630	0.19170816	2.9788066	21	2 19.1	18.8
46267 2001 HR_{55}	14.7	X	123.36499	287.30424	160.13551	11.12324	0.1533064	0.24413181	2.5354388	21	4 21.2	18.4
46268 2001 HJ_{56}	15.3	X	221.20863	67.39717	266.43380	8.82927	0.0133379	0.24246852	2.5470207	21	3 1.2	18.9
46269 2001 HA_{58}	14.4	X	245.73055	199.99767	95.11957	11.56886	0.0783904	0.19069586	2.9893392	21	2 21.9	19.0
46270 2001 HW_{62}	14.1	X	55.57570	292.04856	68.68619	1.90676	0.1292852	0.17044047	3.2217183	21	—	—
46271 2001 HE_{63}	14.7	X	320.92791	13.14786	227.30031	9.58250	0.0450020	0.19161238	2.9797993	21	3 12.6	18.9
46272 2001 HO_{64}	14.5	X	142.18689	265.20150	225.62665	12.19235	0.0383248	0.20411026	2.8568855	21	6 24.3	18.8
46273 2001 HX_{64}	15.2	X	54.53042	7.46657	337.40554	1.38304	0.0947317	0.21933190	2.7231288	21	12 18.7	18.9
46274 2001 JU_{3}	14.3	X	65.67944	168.88617	210.90971	10.56359	0.2039625	0.22225255	2.6992196	21	—	—
46275 2001 JW_{3}	13.7	X	140.45782	155.48826	232.25987	22.80785	0.2106064	0.18492129	3.0512522	21	2 24.5	19.1
46276 2001 JQ_{4}	14.2	X	170.72128	121.19415	181.70784	13.03122	0.0945121	0.22696290	2.6617431	21	—	—
46277 Jeffhall	14.1	X	54.78768	223.40383	125.82768	6.12730	0.1214473	0.16952136	3.2333528	21	12 18.5	18.7
46278 2001 KM	14.1	X	239.57710	308.11870	229.27793	15.80428	0.0695899	0.17279801	3.1923480	21	12 8.1	18.7
46279 2001 KQ_{12}	13.7	X	52.03545	132.47639	235.33305	15.49935	0.2404045	0.21535169	2.7565795	21	—	—
46280 Hollar	14.2	X	354.57573	195.18848	242.17214	11.94539	0.1392067	0.22250847	2.6971495	21	—	—
46281 2001 KR_{19}	15.0	X	78.87439	132.53319	231.64717	6.00869	0.1240954	0.27382909	2.3486393	21	—	—
46282 2001 KU_{26}	14.0	X	108.54955	168.89919	244.94356	11.67969	0.0678979	0.18422317	3.0589559	21	2 7.9	18.5
46283 2001 KE_{29}	14.2	X	344.63453	54.40218	247.05944	8.83340	0.0891396	0.20296951	2.8675798	21	7 4.1	17.8
46284 2001 KU_{33}	15.1	X	9.97191	189.12178	201.83683	9.79309	0.2122377	0.26596248	2.3947259	21	—	—
46285 2001 KD_{36}	13.8	X	69.30756	257.02398	141.87177	6.03701	0.1172874	0.17586150	3.1551659	21	—	—
46286 2001 KR_{37}	14.0	X	200.85400	182.79350	192.18605	9.60388	0.0769766	0.19249226	2.9707119	21	4 8.7	18.4
46287 2001 KJ_{41}	14.0	X	108.67405	174.60717	217.79863	6.80651	0.1034620	0.17993988	3.1073089	21	1 21.9	18.4
46288 2001 KK_{43}	13.9	X	24.78266	12.11560	88.22085	12.01679	0.0467959	0.18212302	3.0824271	21	—	—
46289 2001 KO_{49}	14.6	X	150.55220	55.33587	249.37695	13.03907	0.0881022	0.22286442	2.6942769	21	—	—
46290 2001 KY_{51}	15.0	X	239.80947	325.75502	195.09315	10.54097	0.0401413	0.22130904	2.7068859	21	12 2.4	18.8
46291 2001 KN_{54}	14.5	X	312.37728	70.76961	179.96404	9.66413	0.0336361	0.19314532	2.9640118	21	3 19.3	18.4
46292 2001 KY_{56}	14.0	X	256.95912	116.17285	106.75054	11.86929	0.0260804	0.18132487	3.0914659	21	—	—
46293 2001 KF_{58}	13.8	X	103.08169	244.90985	152.97710	10.46380	0.0946398	0.18189139	3.0850434	21	1 20.9	18.1
46294 2001 KR_{65}	14.5	X	75.41993	264.10109	116.55912	14.16572	0.1971952	0.22539951	2.6740369	21	—	—
46295 2001 KP_{70}	14.0	X	81.09892	244.34326	123.91227	14.48060	0.0681689	0.17604449	3.1529791	21	—	—
46296 2001 KU_{71}	14.5	X	223.78779	310.84357	297.78843	3.18744	0.0322634	0.18008005	3.1056963	21	—	—
46297 2001 MK_{13}	14.3	X	125.07459	19.49182	312.80036	12.69029	0.1834262	0.22440424	2.6819376	21	—	—
46298 2001 MU_{18}	14.0	X	203.70950	197.04691	206.90645	11.08024	0.0992231	0.18630031	3.0361764	21	5 17.9	18.7
46299 2001 MR_{24}	13.0	X	98.45648	158.02993	262.38676	9.37325	0.1750567	0.17524232	3.1625936	21	2 20.5	17.6
46300 2001 MW_{27}	14.2	X	157.32013	277.96894	123.93166	2.71882	0.1622793	0.18133550	3.0913451	21	4 3.5	19.2
46301 2001 OY_{5}	14.3	X	117.61400	203.66930	229.98444	11.19771	0.1678462	0.22636834	2.6664018	21	3 24.6	18.3
46302 2001 OG_{13}	12.6	X	203.55093	295.93414	7.09199	3.82727	0.2320063	0.12493480	3.9629060	21	1 26.3	19.1
46303 2001 OZ_{44}	13.6	X	207.49507	274.48150	279.08735	12.39453	0.0905794	0.21116186	2.7929236	21	11 24.4	17.8
46304 2001 OZ_{62}	13.9	X	321.59098	23.30632	9.72016	15.19127	0.2393915	0.24277412	2.5448828	21	9 27.7	15.7
46305 2001 OW_{71}	13.5	X	303.46112	58.05042	309.72413	4.39472	0.1125883	0.14758652	3.5462682	21	7 26.4	18.0
46306 2001 OW_{102}	14.4	X	249.35322	48.49322	286.85303	14.55812	0.1462156	0.23082682	2.6319555	21	3 24.6	18.9
46307 2001 OX_{104}	14.0	X	76.53152	147.04782	196.99094	1.54327	0.0599550	0.20544309	2.8445158	21	—	—
46308 2001 OZ_{104}	14.0	X	0.54082	228.22372	122.50707	2.96874	0.1097624	0.19632981	2.9318734	21	10 9.6	17.5
46309 2001 QA_{2}	14.0	X	225.47504	80.69931	183.16799	11.68415	0.0645368	0.16879515	3.2426201	21	—	—
46310 2001 QQ_{11}	15.1	X	154.98823	264.71268	122.21243	3.64391	0.0910092	0.22591906	2.6699357	21	3 3.3	19.0
46311 2001 QF_{20}	14.1	X	268.08696	182.86298	186.92205	1.01462	0.0947915	0.18870532	3.0103243	21	6 14.6	18.5
46312 2001 QJ_{25}	15.1	X	216.51971	36.73939	65.22970	1.36496	0.0941499	0.24173943	2.5521394	21	8 14.4	18.6
46313 2001 QO_{25}	13.4	X	304.92042	331.35844	21.86236	11.24345	0.1235198	0.19138649	2.9821435	21	7 10.5	17.4
46314 2001 QK_{29}	15.3	X	249.88850	6.64617	7.45860	2.42135	0.1718189	0.28291219	2.2980966	21	5 15.9	18.8
46315 2001 QR_{30}	14.4	X	277.28474	229.31975	147.50946	3.89657	0.1987015	0.23664158	2.5886620	21	6 19.4	17.9
46316 2001 QH_{31}	15.5	X	67.70515	282.15795	95.18509	5.67034	0.2324198	0.25917659	2.4363454	21	—	—
46317 2001 QN_{53}	14.9	X	91.78094	144.15170	312.32938	11.51075	0.2136849	0.22579624	2.6709038	21	3 25.9	18.6
46318 2001 QO_{74}	14.3	X	171.44207	357.73037	10.34249	3.34607	0.1944823	0.22116354	2.7080730	21	3 4.5	18.8
46319 2001 QP_{74}	14.5	X	201.60678	16.64088	20.38630	2.95758	0.0921312	0.22824996	2.6517276	21	5 3.2	18.5
46320 2001 QY_{74}	14.9	X	103.49570	215.16892	204.71919	5.57943	0.1206446	0.26679057	2.3897680	21	2 3.5	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46321 2001 QO_{84}	14.1	X	97.77312	107.16601	229.46529	1.49168	0.0640353	0.20595115	2.8398359	21	—	—
46322 2001 QD_{99}	14.1	X	118.68674	12.61318	332.24786	3.84889	0.1570652	0.21120824	2.7925148	21	—	—
46323 2001 QH_{115}	13.7	X	331.71980	1.90807	280.78399	8.18345	0.0373240	0.18660787	3.0328394	21	5 24.7	17.9
46324 2001 QW_{119}	14.6	X	111.56698	315.01879	112.54089	4.72591	0.0462856	0.22391260	2.6858620	21	2 25.2	18.1
46325 2001 QZ_{130}	13.4	X	216.37134	57.04990	283.42576	9.39329	0.0888785	0.17932095	3.1144547	21	3 10.0	18.4
46326 2001 QU_{148}	15.4	X	255.96750	296.52814	78.16030	6.30538	0.1806396	0.28623700	2.2802661	21	5 23.5	18.7
46327 2001 QU_{161}	14.6	X	93.23602	140.82128	65.57278	4.05604	0.0713261	0.19421442	2.9531243	21	8 7.8	18.7
46328 2001 QD_{216}	15.4	X	296.98429	171.12043	37.67504	2.58940	0.0209234	0.22035375	2.7147036	21	1 4.0	19.2
46329 2001 QW_{232}	14.2	X	344.07454	234.69603	315.11739	2.13417	0.1195540	0.17468244	3.1693476	21	2 6.6	18.1
46330 2001 QQ_{234}	14.7	X	68.23082	140.64928	37.30285	1.38111	0.0390082	0.18421214	3.0590780	21	5 23.4	18.9
46331 2001 QB_{264}	14.8	X	80.42151	175.20338	41.35914	10.20179	0.0392635	0.23598283	2.5934773	21	8 3.9	18.4
46332 2001 QD_{276}	13.5	X	225.78746	338.46639	30.81473	10.52583	0.1070856	0.18442715	3.0567000	21	4 26.1	18.1
46333 2001 QS_{276}	13.5	X	220.29389	334.84207	33.34485	9.97034	0.0997910	0.18330200	3.0691957	21	4 20.5	18.2
46334 2001 QA_{296}	14.5	X	300.67694	243.08245	176.85850	13.22830	0.1693048	0.24210981	2.5495359	21	10 2.2	17.2
46335 2001 RF_{57}	15.3	X	269.16310	351.59561	63.46270	2.70243	0.1532471	0.24270314	2.5453790	21	8 8.4	18.6
46336 2001 RG_{67}	14.4	X	167.87996	56.78182	275.93313	4.07836	0.0629169	0.21789801	2.7350622	21	1 7.2	18.2
46337 2001 RE_{76}	14.6	X	25.90952	101.58515	189.57115	9.32012	0.0739993	0.23896268	2.5718719	21	8 27.1	17.7
46338 2001 RF_{80}	14.2	X	210.93937	119.34187	180.37743	1.26346	0.1850158	0.17043949	3.2217306	21	1 21.6	19.6
46339 2001 RU_{81}	14.3	X	172.78817	347.59069	3.64700	3.92279	0.0903638	0.21751177	2.7382991	21	2 7.9	18.3
46340 2001 RG_{86}	15.3	X	232.60582	269.54298	125.80014	1.01159	0.0463220	0.23546729	2.5972614	21	6 9.1	18.8
46341 2001 RE_{89}	15.3	X	255.19278	65.10565	9.32330	12.87535	0.1733944	0.24147702	2.5539880	21	8 18.4	19.0
46342 2001 SC_{53}	13.9	X	278.92555	189.06169	118.08492	2.87876	0.1499990	0.18062684	3.0994254	21	4 4.1	18.5
46343 2001 SY_{56}	14.8	X	56.46466	111.43622	84.40374	4.26512	0.0808759	0.23110234	2.6298632	21	6 3.2	18.0
46344 2001 SR_{58}	15.3	X	102.59997	175.53491	58.13057	2.38473	0.0341478	0.24300877	2.5432443	21	9 22.9	18.8
46345 2001 SP_{110}	15.4	X	315.59528	9.89418	354.32334	7.82735	0.1868040	0.29012716	2.2598371	21	8 10.2	17.2
46346 2001 SX_{112}	14.4	X	267.52879	78.88656	215.95835	10.89762	0.1969427	0.22475507	2.6791460	21	2 21.2	18.9
46347 2001 SV_{123}	14.0	X	178.14034	152.65308	330.32220	9.35521	0.0331771	0.19180228	2.9778321	21	7 30.3	18.3
46348 2001 SC_{136}	14.8	X	336.87371	228.32645	347.13025	0.74507	0.1605326	0.17642554	3.1484375	21	2 22.4	18.8
46349 2001 SM_{140}	14.4	X	354.65132	158.93917	6.43585	2.75735	0.0521246	0.21965604	2.7204492	21	1 20.1	17.8
46350 2001 SH_{180}	14.1	X	2.35283	11.76224	143.20524	10.20088	0.0438711	0.17519461	3.1631677	21	1 26.7	18.3
46351 2001 SD_{226}	14.7	X	327.11595	166.70050	74.43275	2.19437	0.1189507	0.17788435	3.1312006	21	3 18.9	18.6
46352 2001 SZ_{266}	14.9	X	196.23037	76.06944	173.00694	3.66765	0.1476041	0.25684566	2.4510635	21	—	—
46353 2001 TY_{7}	14.3	X	215.94079	230.20577	120.68491	3.54944	0.0807029	0.22391291	2.6858595	21	3 23.9	18.3
46354 2001 TY_{8}	13.2	X	263.38814	343.02009	40.38945	13.98198	0.1835034	0.23275722	2.6173830	21	6 11.6	17.2
46355 2001 TQ_{65}	13.7	X	222.96106	256.16183	37.14884	7.70586	0.0977970	0.16812846	3.2511865	21	1 29.2	18.8
46356 2001 TQ_{75}	15.5	X	53.86137	109.85453	43.94604	7.99175	0.0612058	0.27325231	2.3519432	21	3 26.9	18.2
46357 2001 TG_{77}	14.5	X	288.73319	294.62633	58.31781	15.34105	0.1496136	0.23530764	2.5984361	21	6 7.8	17.9
46358 2001 TO_{79}	15.9	X	180.60658	298.11304	126.74863	4.31504	0.1107071	0.27841136	2.3227979	21	5 16.2	19.2
46359 2001 TQ_{104}	14.5	X	204.89374	165.82053	128.56975	5.01866	0.0714389	0.21513116	2.7584631	21	1 1.9	18.6
46360 2001 TA_{105}	15.4	X	310.15151	165.61609	10.78266	2.62588	0.1569792	0.26022405	2.4298031	21	—	—
46361 2001 TR_{105}	14.0	X	342.77997	51.03937	253.73401	7.23341	0.1671769	0.23481560	2.6020647	21	6 30.6	16.5
46362 2001 TO_{118}	13.7	X	251.25610	97.90843	268.66691	15.32728	0.0610476	0.18323172	3.0699805	21	5 25.1	18.3
46363 2001 UX_{34}	13.8	X	238.79345	232.17487	80.41493	11.24134	0.1260016	0.22328599	2.6908846	21	3 1.9	18.2
46364 2001 UM_{35}	14.0	X	281.39032	285.11870	91.14297	11.83791	0.0654128	0.18600056	3.0394374	21	7 14.9	18.3
46365 2001 UJ_{47}	15.3	X	193.50264	9.21636	135.12061	3.70174	0.0869042	0.23994945	2.5648160	21	9 13.9	18.9
46366 2001 UA_{66}	14.6	X	14.23054	48.91852	250.58918	7.81267	0.1571694	0.23790670	2.5794767	21	8 26.1	17.3
46367 2001 UP_{125}	14.2	X	266.05862	245.23327	155.06341	13.74648	0.1605879	0.23740122	2.5831369	21	7 11.9	18.0
46368 2001 VR_{36}	14.8	X	121.32411	302.42945	68.77849	6.15901	0.1104091	0.26113734	2.4241346	21	—	—
46369 2001 VX_{42}	15.9	X	346.92132	50.01180	55.23018	4.75107	0.0876111	0.30355298	2.1927025	21	—	—
46370 2001 VY_{43}	15.1	X	183.62864	231.85290	70.54954	6.68231	0.0198779	0.25835975	2.4414780	21	—	—
46371 2001 VZ_{45}	14.8	X	297.46679	144.83772	227.03103	5.81308	0.1282674	0.28528566	2.2853326	21	7 22.5	17.3
46372 2001 VG_{67}	14.1	X	332.79316	51.56537	312.72653	2.29968	0.1721459	0.24107043	2.5568589	21	9 11.0	16.4
46373 2001 VA_{123}	14.9	X	80.87907	286.60483	43.25669	15.13665	0.0664820	0.24629304	2.5205846	21	—	—
46374 2001 WZ_{13}	14.8	X	175.90368	156.86395	181.23599	5.34850	0.1951672	0.26507858	2.4000464	21	1 24.1	18.7
46375 2001 WD_{29}	14.4	X	303.65812	198.14383	143.57090	5.70561	0.1366900	0.23382045	2.6094424	21	6 18.3	17.6
46376 2001 XD_{3}	14.8	X	169.07767	34.53744	275.37290	18.12027	0.0902006	0.35929191	1.9596165	21	—	—
46377 2001 XX_{7}	13.7	X	266.04370	324.17537	352.93085	23.13775	0.1844515	0.17670214	3.1451511	21	3 24.5	18.7
46378 2001 XD_{17}	14.9	X	136.35962	200.89302	45.05957	5.64545	0.0996642	0.29321164	2.2439607	21	11 26.9	18.0
46379 2001 XD_{22}	15.8	X	231.64546	44.21512	29.32997	7.16529	0.0959321	0.28167852	2.3048017	21	7 27.8	18.9
46380 2001 XF_{54}	14.7	X	54.30563	180.61639	80.73975	15.73609	0.1484166	0.23521817	2.5990949	21	9 21.0	18.4
46381 2001 XQ_{59}	15.3	X	130.56269	288.02575	149.64088	2.53356	0.1868237	0.26977808	2.3720924	21	4 15.9	18.7
46382 2001 XP_{85}	14.2	X	163.95453	227.98807	117.98324	12.04596	0.2167060	0.26211721	2.4180894	21	1 26.5	17.8
46383 2001 XC_{114}	15.2	X	336.98160	247.32804	48.67920	7.21497	0.1090092	0.27941243	2.3172465	21	6 8.9	17.4
46384 2001 XM_{115}	15.8	X	135.13839	107.52644	59.53564	7.47501	0.0660120	0.27931233	2.3178001	21	8 11.8	19.0
46385 2001 XA_{152}	14.8	X	203.20491	189.04709	85.50325	13.46246	0.1961154	0.25707426	2.4496102	21	—	—
46386 2001 XP_{195}	15.7	X	59.57777	238.67524	146.52521	2.14935	0.1766748	0.30183067	2.2010360	21	—	—
46387 2001 XE_{215}	14.9	X	298.14772	334.66856	136.86146	14.35352	0.2001976	0.24358392	2.5392393	21	12 10.8	17.6
46388 2001 XH_{246}	15.3	X	42.82733	302.31903	177.83733	8.36619	0.1006104	0.26371614	2.4083055	21	1 17.1	17.9
46389 2001 YJ_{45}	15.1	X	170.19226	135.37839	75.89247	6.40526	0.0434391	0.24292782	2.5438092	21	11 15.3	18.5
46390 2001 YT_{96}	15.5	X	306.60001	80.24890	16.22743	4.32442	0.1348523	0.29391112	2.2403990	21	12 25.1	17.3
46391 2001 YJ_{97}	15.5	X	6.51840	169.67182	84.74797	4.75329	0.0956571	0.27812957	2.3243665	21	6 1.9	17.7
46392 Bertola	15.0	X	7.31974	58.14425	136.02057	9.68577	0.2149959	0.26628336	2.3928017	21	2 19.6	16.8
46393 2002 AS_{10}	15.6	X	348.36302	305.02320	110.73853	4.47157	0.1209916	0.29489805	2.2353976	21	—	—
46394 2002 AZ_{10}	15.1	X	325.23699	8.65936	39.73529	2.75654	0.1105651	0.28926283	2.2643365	21	11 15.5	16.9
46395 2002 CT_{4}	15.2	X	105.96861	289.05670	77.78028	4.61013	0.1688163	0.30249622	2.1978063	21	—	—
46396 2002 CD_{39}	14.6	X	121.68958	10.44495	9.38492	1.35558	0.0283533	0.20121438	2.8842309	21	1 9.9	18.5
46397 2002 CE_{102}	15.9	X	167.72692	308.25117	350.43986	3.08189	0.1964050	0.29496790	2.2350447	21	—	—
46398 2002 CQ_{146}	15.2	X	225.96039	13.06949	303.42929	4.43714	0.1981720	0.25470671	2.4647665	21	2 11.1	19.3
46399 2002 CD_{169}	15.2	X	226.06029	227.66903	120.00537	6.80957	0.0414539	0.21165575	2.7885771	21	4 4.9	19.3
46400 2002 CG_{220}	15.8	X	92.80594	158.60099	149.16231	5.63279	0.1800902	0.23595384	2.5936897	21	12 26.3	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46401 2002 CY_{240}	15.2	X	138.21950	165.07044	208.33169	1.33828	0.0831160	0.20170935	2.8795107	21	1 28.3	19.2
46402 2002 DB_{16}	15.4	X	83.00531	139.58141	117.57134	4.31461	0.1194363	0.27384729	2.3485353	21	10 15.4	18.5
46403 2002 EQ_{20}	15.7	X	328.09259	92.56218	166.48582	6.47157	0.0980017	0.25839663	2.4412457	21	4 4.6	18.5
46404 2002 EV_{20}	14.4	X	203.80391	279.69716	195.00490	21.46635	0.0883110	0.22364722	2.6879863	21	8 10.9	18.9
46405 2002 EJ_{28}	15.4	X	14.74498	292.00065	3.41017	1.99465	0.0643117	0.22386937	2.6862078	21	8 16.3	18.5
46406 2002 EQ_{67}	15.8	X	220.43346	25.23854	250.94245	1.97865	0.1123641	0.24746652	2.5126100	21	—	—
46407 2002 EC_{74}	15.3	X	214.34443	280.78895	265.24294	1.60637	0.0745380	0.23441822	2.6050045	21	11 29.5	19.0
46408 2002 FO_{3}	15.2	X	127.04063	226.34203	337.20907	0.68796	0.2325520	0.22345589	2.6895204	21	9 23.9	19.6
46409 2002 FT_{35}	13.9	X	181.55133	144.15154	81.32006	17.89885	0.0643276	0.18432795	3.0577966	21	12 4.9	18.4
46410 2002 GF_{46}	15.4	X	12.40159	109.74428	119.71376	4.62869	0.1505354	0.26219792	2.4175932	21	5 7.4	17.5
46411 2002 GS_{68}	14.6	X	307.24514	43.84096	141.95144	13.75314	0.1046584	0.24372130	2.5382851	21	—	—
46412 2002 GL_{76}	14.3	X	74.44898	213.55344	96.31834	10.48539	0.0754133	0.17564504	3.1577576	21	11 21.6	19.0
46413 2002 GS_{87}	15.4	X	242.54940	206.56967	158.29004	6.80439	0.1650331	0.26033184	2.4291325	21	4 30.9	19.1
46414 2002 GD_{113}	14.3	X	31.42039	291.46153	144.09878	11.26935	0.0851312	0.19323233	2.9631220	21	—	—
46415 2002 GV_{125}	15.4	X	27.39362	141.06612	235.42865	3.27983	0.0461010	0.23561226	2.5961959	21	12 20.5	18.8
46416 2002 HK	15.3	X	119.77457	234.82128	114.80668	4.83614	0.1281601	0.24246687	2.5470323	21	—	—
46417 2002 JV_{4}	14.9	X	220.47047	72.38173	148.66332	2.98729	0.1994877	0.18434093	3.0576530	21	12 25.5	19.6
46418 2002 JS_{12}	15.1	X	221.06821	195.37904	87.74352	7.39102	0.2073269	0.29331212	2.2434482	21	—	—
46419 2002 JO_{21}	16.0	X	169.30872	156.39626	102.02620	7.10114	0.1514541	0.28457165	2.2891537	21	—	—
46420 2002 JH_{23}	15.5	X	166.19915	110.12644	217.09450	16.23888	0.2672434	0.24015927	2.5633219	21	1 9.5	20.1
46421 2002 JC_{33}	15.4	X	88.76764	177.13931	64.84070	7.31854	0.0749862	0.27037901	2.3685764	21	9 27.5	18.5
46422 2002 JO_{33}	15.5	X	239.53759	12.13925	191.25696	1.94351	0.1136308	0.28826776	2.2695443	21	—	—
46423 2002 JR_{34}	15.9	X	317.55990	140.72966	102.58331	1.52766	0.1283489	0.30365553	2.1922088	21	2 11.9	18.4
46424 2002 JZ_{35}	14.7	X	302.81009	353.06591	66.59634	15.76229	0.0597126	0.22441774	2.6818301	21	10 21.7	18.3
46425 2002 JP_{44}	14.7	X	65.57535	189.80261	227.14416	13.62513	0.1477437	0.24541672	2.5265813	21	—	—
46426 2002 JG_{58}	15.8	X	8.25122	247.24082	49.95450	4.97704	0.1451712	0.26516468	2.3995268	21	8 19.2	18.0
46427 2002 JS_{59}	14.1	X	95.69427	78.32739	253.50028	4.07114	0.1661746	0.17747830	3.1359747	21	—	—
46428 2002 JO_{63}	15.3	X	311.84831	76.17749	91.97183	2.10902	0.1320336	0.24232062	2.5480570	21	—	—
46429 2002 JP_{63}	16.2	X	111.72286	250.33171	81.26336	1.69313	0.1096111	0.28482648	2.2877881	21	—	—
46430 2002 JV_{63}	16.4	X	200.45656	234.39127	91.72436	2.38478	0.1717817	0.29540112	2.2328590	21	1 27.4	19.6
46431 2002 JL_{65}	14.4	X	110.95097	130.76224	151.40265	5.76522	0.1550599	0.17444287	3.1722488	21	12 3.1	19.5
46432 2002 JR_{65}	15.3	X	98.55210	161.56821	104.21613	3.50978	0.1655024	0.22251428	2.6971026	21	11 9.5	19.5
46433 2002 JQ_{67}	15.3	X	176.42231	70.03917	269.02808	5.68567	0.2632492	0.29445985	2.2376148	21	1 26.4	18.8
46434 2002 JK_{143}	14.5	X	12.45179	320.88945	80.24227	14.86212	0.1869414	0.23065560	2.6332578	21	—	—
46435 2002 KY_{4}	15.0	X	218.03335	84.79312	152.51568	3.01766	0.1533773	0.23608604	2.5927213	21	—	—
46436 2002 LH_{5}	13.0	X	289.83918	60.45943	271.69421	14.26989	0.3766137	0.20031654	2.8928429	21	4 9.3	17.9
46437 2002 LL_{5}	15.5	X	102.48681	260.96557	83.06227	3.59407	0.2591312	0.27843216	2.3226822	21	—	—
46438 2002 LZ_{7}	15.9	X	218.94051	197.62151	110.60805	7.92885	0.1672386	0.29577261	2.2309889	21	1 21.6	19.3
46439 2002 LX_{12}	14.6	X	233.68970	99.54960	240.26835	7.46515	0.2804417	0.24576292	2.5242080	21	3 12.9	19.3
46440 2002 LS_{27}	15.5	X	21.39326	207.53505	180.45730	5.32696	0.0510370	0.28129247	2.3069100	21	—	—
46441 Mikepenston	14.2	X	102.47556	124.82058	275.26715	12.09749	0.1700419	0.23167791	2.6255057	21	1 21.8	17.5
46442 Keithtritton	12.9	X	136.11360	353.98526	274.98948	15.92277	0.1144677	0.17083717	3.2167289	21	12 7.4	18.0
46443 2002 LW_{43}	14.4	X	35.63718	112.05320	245.81898	10.78199	0.1299455	0.21956318	2.7212162	21	12 16.2	17.9
46444 2089 P–L	15.5	X	80.30599	219.48815	227.29531	2.35185	0.1731829	0.26588745	2.3951763	21	2 13.1	17.9
46445 2102 P–L	15.7	X	179.24172	325.24081	335.77267	3.92487	0.1864603	0.28152314	2.3056497	21	—	—
46446 2110 P–L	15.9	X	163.72196	23.71944	299.22600	1.91298	0.1463936	0.23278064	2.6172074	21	—	—
46447 2208 P–L	15.7	X	76.45176	212.57057	225.02214	4.51484	0.2554161	0.23257561	2.6187453	21	2 13.7	18.4
46448 2829 P–L	14.6	X	55.06574	6.03735	165.81478	3.60243	0.1264146	0.25275149	2.4774614	21	5 2.6	17.2
46449 3036 P–L	15.5	X	350.24411	106.34055	301.50811	6.08315	0.1536728	0.29292259	2.2454366	21	—	—
46450 3039 P–L	14.8	X	336.12008	150.41603	246.86422	6.87738	0.2246410	0.21055386	2.7982976	21	10 31.7	17.4
46451 3050 P–L	14.0	X	175.09347	75.10167	314.98597	8.61065	0.1294053	0.18728287	3.0255477	21	3 29.3	18.9
46452 3097 P–L	14.2	X	47.16285	358.86102	293.57739	7.04009	0.2016127	0.21081691	2.7959695	21	10 14.6	17.9
46453 4013 P–L	14.6	X	353.48185	136.21975	205.28801	7.34084	0.2444077	0.21008401	2.8024683	21	9 19.3	17.0
46454 4029 P–L	15.6	X	305.87104	341.71902	355.35439	6.82221	0.2077096	0.25619393	2.4552185	21	5 31.0	18.5
46455 4054 P–L	14.5	X	215.23549	87.94875	219.25400	4.33130	0.1507864	0.21833734	2.7313920	21	1 26.4	18.9
46456 4140 P–L	14.2	X	304.12810	200.10323	186.21159	13.64280	0.1715048	0.24126479	2.5554855	21	8 14.3	17.1
46457 4166 P–L	14.4	X	104.22331	200.58780	204.28293	9.22384	0.0098364	0.18484854	3.0520527	21	1 17.4	18.8
46458 4244 P–L	16.0	X	348.34170	63.81050	211.76782	5.94323	0.1909558	0.25623175	2.4549770	21	5 24.4	18.1
46459 4540 P–L	15.0	X	126.62695	132.45444	175.81258	15.75645	0.0588405	0.18180138	3.0860617	21	—	—
46460 4798 P–L	16.3	X	138.04738	281.80049	12.59799	3.00838	0.1753755	0.27955922	2.3164353	21	—	—
46461 6105 P–L	14.6	X	274.25544	152.09925	198.57405	11.98878	0.1112347	0.20682709	2.8318121	21	5 26.5	18.7
46462 6179 P–L	15.5	X	163.58150	331.70785	316.25641	2.30189	0.1157835	0.23181129	2.6244985	21	—	—
46463 6290 P–L	16.3	X	335.42902	40.54077	206.44909	3.63541	0.1526175	0.30253802	2.1976038	21	3 10.5	18.4
46464 6602 P–L	16.3	X	245.75877	2.95622	11.50047	6.56200	0.1374066	0.30355757	2.1926804	21	5 12.8	19.4
46465 6617 P–L	14.9	X	149.33609	87.19125	18.60580	6.47686	0.1065884	0.25423311	2.4678266	21	6 3.9	18.6
46466 6622 P–L	14.8	X	288.35842	1.56896	159.85753	3.05172	0.1113910	0.27964139	2.3159815	21	—	—
46467 6730 P–L	14.9	X	231.55216	96.59460	181.50122	1.79339	0.0735406	0.18539567	3.0460451	21	1 15.3	19.6
46468 6887 P–L	15.4	X	279.00123	157.26519	30.92339	2.30874	0.0354318	0.21566798	2.7538838	21	—	—
46469 9572 P–L	15.4	X	82.42119	313.29760	74.13890	4.04888	0.1752811	0.26397876	2.4067080	21	—	—
46470 9607 P–L	13.5	X	350.94015	164.97017	3.90299	9.59764	0.0766532	0.18547849	3.0451382	21	1 26.9	17.6
46471 1160 T–1	13.6	X	22.34747	264.70387	187.53816	24.89168	0.2763041	0.17526965	3.1622648	21	—	—
46472 2155 T–1	14.1	X	81.18767	40.95306	71.07489	1.72211	0.1165967	0.17815792	3.1279943	21	3 30.1	18.2
46473 3066 T–1	15.5	X	28.90095	280.16110	354.78256	4.75991	0.1948680	0.26021130	2.4298826	21	8 31.3	17.8
46474 3109 T–1	15.6	X	37.36955	32.42122	246.51505	2.89364	0.1326711	0.26107540	2.4245180	21	9 8.5	18.3
46475 3204 T–1	14.6	X	291.08025	55.95500	351.69576	5.97364	0.0952697	0.26325092	2.4111420	21	9 10.3	17.3
46476 4208 T–1	16.1	X	61.23299	343.14186	138.06597	2.25817	0.1140977	0.29452790	2.2372701	21	2 15.4	17.7
46477 4266 T–1	16.0	X	26.46083	95.74912	146.68160	2.45844	0.1675021	0.25877888	2.4388410	21	6 28.9	18.0
46478 1097 T–2	14.8	X	103.65462	70.00911	300.00856	1.83655	0.0810297	0.21255275	2.7807262	21	—	—
46479 1150 T–2	15.8	X	68.91521	259.15480	44.80659	1.21604	0.1960194	0.26992521	2.3712304	21	12 5.5	19.1
46480 1170 T–2	14.9	X	61.81360	253.63906	187.11721	11.45558	0.1441583	0.23399687	2.6081307	21	1 6.5	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46481 1198 *T–2*	15.0	*X*	3.24925	87.44794	302.91362	1.05004	0.0566729	0.22863629	2.6487396	21	12 4.9	18.2
46482 1460 *T–2*	14.6	*X*	345.94612	24.44386	187.97796	6.66728	0.2078803	0.19782810	2.9170512	21	2 20.2	18.0
46483 1549 *T–2*	14.9	*X*	151.19940	148.83323	197.99922	4.88759	0.0234978	0.21415602	2.7668303	21	—	—
46484 2245 *T–2*	15.7	*X*	80.80624	92.52660	186.11586	2.45520	0.1753489	0.26904618	2.3763924	21	11 14.1	19.0
46485 2279 *T–2*	14.6	*X*	261.44487	233.27391	163.32693	1.90291	0.1240757	0.20206615	2.8761200	21	7 6.8	18.6
46486 3113 *T–2*	15.0	*X*	104.12894	350.27635	32.75925	3.88542	0.1702566	0.23371977	2.6101917	21	1 4.2	18.2
46487 3322 *T–2*	15.1	*X*	233.49159	88.76994	169.77201	14.31706	0.0372398	0.23469622	2.6029469	21	—	—
46488 3335 *T–2*	15.2	*X*	148.73530	340.94394	65.86530	3.59611	0.1692131	0.23756156	2.5819744	21	3 28.2	19.1
46489 4156 *T–2*	15.3	*X*	176.10529	231.10615	68.42611	1.47756	0.1289989	0.23402130	2.6079492	21	—	—
46490 4164 *T–2*	15.5	*X*	256.59368	44.89131	56.19939	3.16440	0.1478780	0.26653018	2.3913241	21	9 27.6	18.4
46491 5070 *T–2*	13.5	*X*	221.24102	28.77402	259.70828	6.94733	0.1309028	0.17342116	3.1846961	21	1 16.9	18.6
46492 1023 *T–3*	15.4	*X*	49.70269	292.38338	273.08745	5.89893	0.1014927	0.28543251	2.2845487	21	6 6.0	17.5
46493 1032 *T–3*	13.7	*X*	23.63531	209.78628	323.03985	10.38575	0.0454083	0.19135339	2.9824873	21	3 12.6	17.7
46494 1088 *T–3*	14.7	*X*	105.81026	70.26523	347.33231	9.23480	0.0651811	0.23410844	2.6073020	21	2 6.7	18.0
46495 1123 *T–3*	14.6	*X*	244.40356	315.83561	339.28338	8.18246	0.0621294	0.19069914	2.9893050	21	2 18.7	18.9
46496 1157 *T–3*	14.1	*X*	162.15277	124.90183	263.81558	8.80706	0.0967421	0.19095116	2.9866742	21	3 12.3	18.8
46497 2214 *T–3*	15.1	*X*	162.51154	324.38326	246.77505	5.87900	0.0923067	0.27038339	2.3685508	21	11 6.6	18.5
46498 2240 *T–3*	15.5	*X*	357.40536	327.68944	254.83723	4.65443	0.1117811	0.30588229	2.1815567	21	3 16.3	17.7
46499 2409 *T–3*	16.3	*X*	90.81738	298.11890	333.32509	2.08580	0.1499809	0.27051634	2.3677747	21	11 11.7	19.8
46500 2610 *T–3*	15.5	*X*	177.42274	206.55774	313.04344	1.89974	0.1289299	0.26684117	2.3894659	21	9 14.9	19.0
46501 2616 *T–3*	15.1	*X*	243.65364	268.08445	245.26585	5.42007	0.0418135	0.27134352	2.3629602	21	12 6.5	17.9
46502 3084 *T–3*	16.7	*X*	333.89611	299.27223	36.36116	0.97957	0.1637630	0.31182457	2.1537526	21	8 5.7	17.7
46503 3191 *T–3*	16.0	*X*	339.59151	20.94592	39.22840	7.38871	0.1119422	0.27128861	2.3632790	21	12 25.1	18.4
46504 3194 *T–3*	15.1	*X*	317.51291	246.23058	41.45583	6.63595	0.1203118	0.26306216	2.4122952	21	4 23.9	17.9
46505 3195 *T–3*	15.1	*X*	160.16093	80.82279	188.16647	11.15788	0.1702871	0.22981353	2.6396863	21	—	—
46506 3387 *T–3*	16.2	*X*	348.06612	291.13181	8.39824	1.63967	0.2093050	0.31128707	2.1562312	21	7 1.2	17.1
46507 3479 *T–3*	15.8	*X*	170.11893	200.08408	189.37427	4.12329	0.2895833	0.23674308	2.5879220	21	3 31.3	20.3
46508 3554 *T–3*	14.9	*X*	267.28429	94.87958	194.92854	9.01678	0.0544058	0.19171338	2.9787526	21	3 8.1	19.2
46509 4149 *T–3*	15.8	*X*	103.48995	151.18732	134.30951	2.93906	0.1938759	0.27255748	2.3559387	21	12 15.5	19.5
46510 4323 *T–3*	15.9	*X*	334.93750	294.67513	125.20297	6.01925	0.0549792	0.27120900	2.3637415	21	12 13.3	18.5
46511 4356 *T–3*	14.6	*X*	149.12804	242.17078	164.01645	11.13126	0.1017116	0.19106481	2.9854897	21	3 26.4	19.2
46512 1951 *QD*	14.4	*X*	308.53131	296.12164	125.48162	8.68411	0.2244250	0.20984630	2.8045844	21	10 9.8	17.4
46513 Ampzing	15.8	*X*	281.97158	313.05277	174.27966	22.00419	0.0694605	0.37333613	1.9101583	21	—	—
46514 Lasswitz	15.5	*X*	215.26572	0.99620	239.01751	23.79764	0.2019772	0.28122590	2.3072740	21	—	—
46515 1978 VW_5	16.0	*X*	146.60827	120.36982	214.68831	2.19788	0.2109593	0.28256133	2.2999986	21	—	—
46516 1978 VQ_6	14.9	*X*	157.64971	67.96415	27.76469	2.20992	0.0747710	0.19687074	2.9265005	21	5 31.8	19.3
46517 1978 VM_7	15.2	*X*	256.11758	89.74491	240.67388	6.46879	0.2847111	0.24339437	2.5405575	21	3 18.7	19.6
46518 1978 VH_{10}	14.5	*X*	230.60237	310.39681	85.10927	3.15518	0.0714261	0.19814126	2.9139768	21	6 5.7	18.6
46519 1979 ME_3	14.3	*X*	51.90751	226.58494	162.68688	6.16375	0.1251732	0.17230538	3.1984299	21	—	—
46520 1979 MJ_3	14.8	*X*	327.46773	263.11349	174.25213	5.42720	0.0350832	0.21833892	2.7313789	21	12 12.6	18.3
46521 1979 MM_7	16.8	*X*	330.54678	101.50545	160.94067	3.46511	0.1881681	0.30189564	2.2007201	21	3 21.5	18.8
46522 1979 MS_7	15.1	*X*	61.28093	75.68222	252.04902	4.47989	0.1343638	0.21709135	2.7418332	21	12 10.5	19.0
46523 1979 OH_{10}	14.0	*X*	142.62183	210.43739	152.19663	12.09209	0.0908362	0.17698957	3.1417450	21	1 25.0	18.8
46524 1979 QH_2	15.3	*X*	352.60100	91.56702	300.82593	1.49842	0.1883682	0.21439442	2.7647788	21	11 30.1	18.1
46525 1980 UG_1	14.3	*X*	150.24728	80.17168	231.42383	12.20919	0.2782015	0.22464291	2.6800377	21	—	—
46526 1981 EN_5	15.7	*X*	167.27621	230.77265	244.64755	5.16705	0.0936718	0.25213727	2.4814833	21	7 6.9	19.3
46527 1981 EE_7	16.0	*X*	273.26197	303.56591	310.44848	6.17721	0.1924189	0.29097630	2.2554384	21	1 3.0	19.5
46528 1981 EB_8	15.1	*X*	243.15105	113.38777	319.60402	7.62495	0.1605777	0.25499772	2.4628909	21	7 30.5	18.6
46529 1981 ED_9	15.6	*X*	193.83069	185.14760	255.90912	4.38363	0.1067205	0.30101087	2.2050305	21	6 19.9	18.6
46530 1981 EE_{10}	15.8	*X*	275.81221	3.86639	296.89910	2.96663	0.1201489	0.29534709	2.2331312	21	3 10.6	18.7
46531 1981 EV_{11}	16.2	*X*	258.94223	110.23307	213.31068	7.38827	0.0508256	0.29629156	2.2283831	21	3 28.7	18.9
46532 1981 EN_{13}	14.9	*X*	64.84514	270.81948	260.98268	4.36406	0.0818131	0.29743899	2.2226485	21	5 6.1	17.0
46533 1981 EO_{23}	15.9	*X*	197.86497	170.41062	250.35333	0.97550	0.1066448	0.29995206	2.2102165	21	5 27.1	18.7
46534 1981 EU_{27}	16.0	*X*	240.77122	95.18058	171.15891	6.16653	0.2562981	0.28914164	2.2649692	21	—	—
46535 1981 EB_{36}	15.5	*X*	210.94063	109.59171	3.77363	2.12505	0.1593884	0.25516612	2.4618073	21	8 18.5	19.2
46536 1981 EJ_{40}	14.3	*X*	359.76745	57.27325	346.11208	32.61884	0.3230052	0.21248715	2.7812985	21	—	—
46537 1981 EV_{45}	15.2	*X*	329.91786	338.95507	294.21342	2.63575	0.1598115	0.19838305	2.9116087	21	4 23.1	18.8
46538 1981 UC_{26}	13.8	*X*	155.62576	228.20381	159.23026	3.82100	0.1256055	0.18420405	3.0591676	21	3 12.1	18.5
46539 Viktortikhonov	13.9	*X*	217.48721	85.83654	328.50198	9.77390	0.0212661	0.24678023	2.5172662	21	6 17.6	17.4
46540 1983 *LD*	15.6	*X*	150.50385	6.43404	239.23206	18.98858	0.0398485	0.37228084	1.9137664	21	12 29.1	17.9
46541 1984 SM_6	14.3	*X*	24.64125	245.58567	168.73784	11.93342	0.1370732	0.19243438	2.9713076	21	—	—
46542 1987 *AD*	14.3	*X*	159.73715	139.77006	281.12309	29.78186	0.2080794	0.23846700	2.5754346	21	4 15.4	19.3
46543 1987 DL_6	14.8	*X*	293.85712	187.03622	351.47816	7.34262	0.1367707	0.28300059	2.2976180	21	—	—
46544 1988 *QO*	15.9	*X*	177.83350	33.63148	271.22258	3.54470	0.2514627	0.28329178	2.2960433	21	—	—
46545 1988 RY_{12}	14.8	*X*	359.15090	63.85673	276.73822	2.53468	0.1575055	0.20967193	2.8061391	21	9 25.3	17.7
46546 1988 VM_5	14.8	*X*	41.92989	269.18512	119.75820	2.21081	0.2726138	0.21396320	2.7684924	21	—	—
46547 1989 GE_3	14.2	*X*	87.36908	112.85048	343.55446	3.63151	0.2012752	0.18387799	3.0627829	21	3 28.8	18.2
46548 1989 SK_1	14.9	*X*	109.48828	279.10619	56.88479	4.60753	0.2218513	0.22454282	2.6808340	21	—	—
46549 1989 SA_2	15.1	*X*	74.20430	285.37482	57.47169	6.39975	0.1709210	0.22178441	2.7030165	21	—	—
46550 1989 SZ_{13}	14.7	*X*	46.63182	62.44987	306.51578	11.78764	0.0892488	0.22040047	2.7143199	21	—	—
46551 1989 TC_4	14.9	*X*	104.17041	238.56689	137.96340	2.33353	0.1756781	0.22607130	2.6687369	21	—	—
46552 1990 RM_1	14.5	*X*	79.13608	332.43890	359.62254	13.16464	0.1929308	0.22992590	2.6388262	21	—	—
46553 1990 RW_{14}	16.0	*X*	210.49518	222.83590	130.86585	4.79461	0.2531511	0.24244288	2.5472003	21	3 18.3	20.4
46554 1990 SZ_8	14.3	*X*	29.30322	289.15734	32.83505	8.20140	0.1506496	0.19248040	2.9708339	21	10 20.8	18.0
46555 1990 VH_3	14.7	*X*	127.03825	165.13646	266.57825	3.57304	0.2747637	0.23740599	2.5831023	21	4 14.5	18.9
46556 1991 FU_3	14.7	*X*	83.25344	191.47793	15.84613	4.74885	0.0756131	0.30281530	2.1962621	21	7 31.9	17.2
46557 1991 FW_3	13.4	*X*	114.75321	136.30346	172.53137	5.29014	0.0151415	0.21641027	2.7475829	21	—	—
46558 1991 GY_5	16.1	*X*	2.66905	352.23413	202.99859	6.45221	0.1357117	0.29318301	2.2441068	21	2 11.7	18.3
46559 1991 PC_1	15.4	*X*	41.29283	327.18575	345.73591	18.52515	0.0670252	0.36515236	1.9385930	21	10 31.9	17.8
46560 1991 PZ_1	15.6	*X*	161.91132	165.47529	79.58339	1.72117	0.2154532	0.27448455	2.3448988	21	12 14.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46561 1991 RQ	15.2	X	73.72347	187.32462	151.86279	13.03849	0.2728678	0.27057199	2.3674501	21	—	—
46562 1991 RV	15.3	X	69.66003	229.37157	127.81073	2.93444	0.2372413	0.27112951	2.3642035	21	—	—
46563 Oken	13.5	X	205.16451	318.83318	355.74527	19.51359	0.1821405	0.18032202	3.1029174	21	2 8.6	18.9
46564 1991 RA_{11}	12.2	X	349.85659	102.90185	19.84271	17.16921	0.1317578	0.17338765	3.1851064	21	—	—
46565 1991 RF_{17}	15.1	X	21.77966	327.38924	36.06475	7.20859	0.1334479	0.26693541	2.3889034	21	12 15.1	17.9
46566 1991 RW_{21}	14.6	X	283.93920	71.32104	340.94583	9.85908	0.2558786	0.26105971	2.4246152	21	8 10.7	17.5
46567 1991 RV_{23}	15.3	X	97.69789	20.12795	352.21293	7.22403	0.1118575	0.27536449	2.3399007	21	—	—
46568 Stevenlee	14.9	X	257.78957	24.92480	12.86641	19.13764	0.0991917	0.35832947	1.9631238	21	7 13.6	17.6
46569 1991 SY_1	15.2	X	75.61522	297.29850	345.32821	9.30685	0.2168267	0.26780345	2.3837385	21	11 14.2	18.9
46570 1991 TK_8	15.0	X	78.30396	258.23605	151.46234	6.08038	0.1298344	0.27517215	2.3409909	21	—	—
46571 1991 VG_1	15.0	X	9.57820	33.34435	29.91840	5.96911	0.2688999	0.26758903	2.3850117	21	—	—
46572 1991 VA_5	14.0	X	232.54979	33.68507	78.66750	14.39914	0.1713492	0.25781481	2.4449171	21	9 15.7	17.8
46573 1992 AJ_1	13.5	X	45.01071	306.62736	272.39703	5.06348	0.1086592	0.24619532	2.5212516	21	6 21.3	16.2
46574 1992 DE_8	15.4	X	165.23212	331.10958	265.22104	3.09035	0.1844189	0.22258174	2.6965576	21	12 1.5	20.0
46575 1992 DS_9	14.7	X	238.63252	132.58775	171.69741	14.62259	0.1641660	0.23629923	2.5911617	21	2 9.2	19.0
46576 1992 EP_{10}	14.2	X	61.03261	39.73273	162.99504	14.78045	0.0497640	0.24449542	2.5329244	21	6 16.2	17.7
46577 1992 EK_{12}	15.0	X	213.96433	243.89936	157.66033	11.94617	0.1409030	0.24532875	2.5271853	21	5 22.9	19.2
46578 1992 EC_{14}	15.6	X	179.66113	331.29313	270.31973	2.80937	0.1682010	0.22412420	2.6841712	21	12 21.1	20.0
46579 1992 EA_{26}	14.9	X	44.10966	157.56481	346.69653	10.47065	0.1520799	0.23795221	2.5791477	21	3 5.9	17.5
46580 Ryouichiirie	13.9	X	219.48251	230.76986	27.00672	13.64170	0.1333561	0.22724546	2.6595362	21	—	—
46581 1992 OK_2	14.2	X	342.04980	4.02204	312.51557	14.10436	0.2696184	0.20337700	2.8637482	21	7 10.6	16.7
46582 1992 RR_3	15.8	X	206.32191	71.43997	334.99354	6.33763	0.1414057	0.29790454	2.2203322	21	5 13.8	19.2
46583 1992 RW_3	14.9	X	278.45187	70.27495	278.97156	0.77577	0.0785059	0.19806806	2.9146948	21	6 2.9	19.0
46584 1992 RN_6	14.3	X	227.58692	338.71760	13.78026	10.29972	0.1178398	0.19278928	2.9676599	21	4 6.4	18.7
46585 1992 RD_7	14.2	X	212.23221	277.44173	119.53532	3.09080	0.0202924	0.19547678	2.9403967	21	5 21.3	18.3
46586 1992 SH_6	16.7	X	207.29085	12.08308	7.63169	5.17777	0.1492662	0.29576578	2.2310233	21	4 10.7	20.0
46587 1992 UJ_1	15.7	X	204.51409	148.10335	217.96646	7.14293	0.2082461	0.29294751	2.2453093	21	3 20.7	19.4
46588 1992 WR	14.8	X	27.61044	35.00223	55.77455	5.65122	0.1360973	0.28067637	2.3102846	21	—	—
46589 1992 WU	14.8	X	216.55834	162.45238	232.44847	4.91039	0.1786298	0.29485601	2.2356101	21	5 9.8	18.2
46590 1992 WP_1	13.0	X	127.30972	324.52089	95.54570	12.91498	0.1199002	0.18487790	3.0517296	21	3 27.6	17.8
46591 1992 WS_1	13.4	X	39.79576	25.45964	76.18268	6.28937	0.1855722	0.17920405	3.1158091	21	1 16.3	16.7
46592 1992 YP	14.8	X	125.42474	293.42398	112.87254	5.53673	0.1261584	0.28585321	2.2823067	21	2 16.2	17.5
46593 1992 YP_1	14.8	X	18.74094	63.72079	73.78917	4.36317	0.0775709	0.28185176	2.3038571	21	—	—
46594 1992 YP_3	14.1	X	51.76068	262.08936	138.97859	2.83109	0.1589891	0.17256371	3.1952369	21	—	—
46595 Kita–Kyushu	15.6	X	12.11469	74.03389	4.85156	2.90817	0.2041223	0.27616971	2.3353502	21	—	—
46596 Tobata	14.8	X	9.76423	7.85285	112.82046	6.95170	0.1396988	0.27730541	2.3289696	21	—	—
46597 1993 DK_2	15.2	X	269.49972	247.58114	340.43290	28.00123	0.3338779	0.23766328	2.5812376	21	—	—
46598 1993 FT_2	13.9	X	41.71107	91.63389	3.12496	21.05009	0.2865819	0.27709496	2.3301486	21	—	—
46599 1993 FP_{10}	15.4	X	291.00525	304.71931	134.25187	3.22994	0.1425009	0.26317677	2.4115948	21	10 20.8	17.9
46600 1993 FG_{14}	15.0	X	304.96496	201.54249	35.71143	8.38358	0.1634021	0.24254867	2.5464596	21	1 27.9	18.6
46601 1993 FV_{15}	15.6	X	36.95291	132.52346	104.07105	4.20790	0.0231831	0.25215982	2.4813353	21	6 23.8	18.7
46602 1993 FP_{34}	13.7	X	231.94699	248.60424	28.43496	6.83061	0.0294095	0.16961442	3.2321700	21	1 21.4	18.5
46603 1993 FY_{41}	15.4	X	270.07946	68.11655	15.35508	1.90113	0.1167585	0.26114913	2.4240617	21	9 25.4	18.1
46604 1993 FH_{56}	15.7	X	160.40640	40.37182	80.83944	5.11927	0.0222110	0.21837981	2.7310379	21	7 4.5	19.6
46605 1993 HQ_1	16.2	X	45.94407	199.35052	6.29400	19.10467	0.0697877	0.35468918	1.9765331	21	5 10.9	18.3
46606 1993 LK_2	15.4	X	177.89578	311.95143	101.89204	6.74222	0.1840626	0.24540446	2.5266655	21	5 4.3	19.6
46607 1993 OY_{12}	13.4	X	340.14281	301.50808	286.47802	13.75483	0.0773255	0.23927859	2.5696077	21	3 6.9	17.0
46608 1993 RA_2	14.6	X	168.49103	167.73804	166.14273	4.42991	0.3233294	0.22793207	2.6541926	21	1 26.5	19.3
46609 1993 SQ_1	13.8	X	63.47335	341.52519	29.39862	9.75934	0.1860210	0.21937318	2.7227872	21	—	—
46610 Bésixdouze	15.5	X	38.76075	211.79646	172.06106	2.40577	0.1801986	0.28817557	2.2700283	21	—	—
46611 1993 TH_4	14.4	X	358.29732	37.84295	350.13617	3.33172	0.1035816	0.21360345	2.7715999	21	11 24.9	17.6
46612 1993 TS_{16}	14.8	X	286.16784	274.00222	159.87809	2.78637	0.0343874	0.21113916	2.7931238	21	10 11.7	18.5
46613 1993 TA_{17}	14.6	X	338.23104	180.93349	182.61987	7.52154	0.2231675	0.21013781	2.8019900	21	9 15.5	16.9
46614 1993 TV_{27}	14.4	X	16.23970	348.38334	97.48330	2.52995	0.0407386	0.22073201	2.7116013	21	—	—
46615 1993 TT_{32}	15.0	X	277.72371	224.23486	100.20626	4.08119	0.0367957	0.19967069	2.8990776	21	5 8.1	18.9
46616 1994 AM	13.1	X	245.96158	312.42900	277.16837	14.64944	0.2025781	0.17826341	3.1267602	21	—	—
46617 1994 BD_1	15.3	X	213.96228	45.62068	7.45758	6.46436	0.1454756	0.30247468	2.1979106	21	5 31.4	18.6
46618 1994 CF_{16}	14.2	X	349.41679	11.98177	117.94901	8.19175	0.0889904	0.17668264	3.1453825	21	—	—
46619 1994 CR_{16}	16.0	X	180.40684	186.37643	29.86530	2.62107	0.1571537	0.27477335	2.3432555	21	11 28.9	19.6
46620 1994 EL_1	14.2	X	253.71655	317.44938	112.66353	4.93294	0.1380273	0.30420997	2.1895444	21	8 14.2	16.7
46621 1994 EC_7	15.1	X	78.23114	79.48957	36.28077	5.78599	0.1131679	0.29238694	2.2481782	21	3 13.5	17.3
46622 1994 EF_7	15.5	X	268.98330	137.59509	52.17633	5.72483	0.0894623	0.28152176	2.3056572	21	—	—
46623 1994 GV_{10}	15.0	X	240.73969	119.41486	59.53888	9.97755	0.1401072	0.27569154	2.3380498	21	12 22.3	17.7
46624 1994 JV_4	15.8	X	77.45601	302.91327	176.24137	0.88666	0.1760377	0.28943757	2.2634250	21	3 25.2	17.8
46625 1994 LM	15.9	X	75.87050	37.56674	263.60024	19.82504	0.0509648	0.37091810	1.9184509	21	12 12.8	17.6
46626 1994 PL_{23}	14.8	X	135.71848	58.95960	36.23219	1.22201	0.1491408	0.24399093	2.5364147	21	5 11.2	18.5
46627 1994 PG_{24}	15.0	X	339.72828	306.13742	139.43183	1.77954	0.1493648	0.26480215	2.4017163	21	—	—
46628 1994 PD_{27}	15.6	X	172.04885	65.51423	344.32091	9.89907	0.1611180	0.24402421	2.5361841	21	4 16.6	19.7
46629 1994 PS_{38}	13.1	X	137.15563	45.88693	303.90856	1.69768	0.2460841	0.12536532	3.9538279	21	1 28.6	19.3
46630 1994 SA_{11}	16.1	X	141.98999	274.56561	101.25658	1.23982	0.1020699	0.23614189	2.5923125	21	2 1.5	19.7
46631 1994 TQ_3	13.5	X	264.86710	323.87261	19.31283	12.92342	0.1194313	0.24455889	2.5324861	21	4 27.8	17.1
46632 RISE	16.0	X	209.94989	172.54959	191.81743	1.26279	0.1072626	0.24151961	2.5536877	21	3 30.5	19.8
46633 1994 VH_1	13.9	X	0.71489	54.01979	86.90138	4.11341	0.0595083	0.23029018	2.6360427	21	—	—
46634 1994 VR_2	13.6	X	85.36248	124.88026	42.18655	12.93694	0.0948296	0.24274045	2.5451181	21	6 5.3	16.9
46635 1994 WK_2	13.6	X	264.78000	38.12810	104.47698	9.79865	0.2256823	0.21837286	2.7310958	21	11 15.7	17.2
46636 1994 WD_3	14.9	X	106.83767	318.83635	72.61613	13.59671	0.1674684	0.23087559	2.6315848	21	1 20.6	18.4
46637 1994 WJ_{12}	13.5	X	237.04374	122.26896	271.06134	9.03663	0.2308378	0.24432978	2.5340690	21	5 25.2	17.8
46638 1995 BO_3	14.8	X	55.04014	290.82071	158.95827	3.91838	0.1842457	0.22579996	2.6708745	21	1 13.1	17.4
46639 1995 BN_4	13.7	X	50.46938	108.88130	333.73983	10.77457	0.1677891	0.22393743	2.6856635	21	—	—
46640 1995 DU	13.8	X	116.79379	99.80498	351.98644	10.09307	0.0467091	0.19250814	2.9705485	21	4 3.9	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46641 1995 EY	15.0	X	87.40744	143.38327	324.69465	4.45728	0.2728605	0.23015130	2.6371030	21	4 17.4	18.3
46642 1995 FU_4	14.7	X	100.41653	317.67369	159.97563	11.68117	0.0562866	0.19298415	2.9656618	21	4 23.5	18.9
46643 Yanase	13.9	X	163.87947	214.89779	220.29871	10.10546	0.0910762	0.19201666	2.9756152	21	5 14.6	18.5
46644 Lagia	16.3	X	132.71804	69.10730	264.05167	6.09387	0.1334311	0.28196361	2.3032478	21	—	—
46645 1995 OP_1	14.3	X	153.16615	211.35434	339.48211	4.55630	0.1209276	0.19495312	2.9456598	21	9 24.5	18.9
46646 1995 OC_8	15.7	X	257.99131	109.94673	192.88583	3.93716	0.1916948	0.29269051	2.2466235	21	2 17.1	19.1
46647 1995 QP_3	15.3	X	124.05628	333.61327	35.69956	5.34867	0.1926524	0.28284396	2.2984661	21	1 5.3	18.0
46648 1995 SY	15.9	X	179.47127	110.55124	140.41439	5.21304	0.0959457	0.27706169	2.3303352	21	—	—
46649 1995 SN_4	14.6	X	229.73899	324.10953	30.69267	5.25661	0.1433229	0.29169249	2.2517451	21	4 2.5	17.9
46650 1995 SR_{19}	15.7	X	289.07019	86.06123	13.92081	2.50645	0.1656425	0.26724604	2.3870519	21	11 12.8	17.7
46651 1995 SV_{26}	16.4	X	90.18012	93.82745	191.68090	2.10214	0.1919055	0.27023376	2.3694251	21	12 3.2	19.9
46652 1995 SV_{30}	15.9	X	158.90487	47.96046	355.76139	4.52294	0.1600686	0.21271168	2.7793409	21	4 2.3	20.3
46653 1995 SE_{33}	15.3	X	181.96642	10.48312	349.39912	6.91306	0.1381087	0.28777078	2.2721566	21	2 21.2	18.6
46654 1995 UB_8	14.4	X	27.09442	28.68417	65.34849	4.13962	0.1231134	0.27648323	2.3335845	21	—	—
46655 1995 UR_9	16.0	X	111.34163	34.19659	205.35133	5.06766	0.1047102	0.26709708	2.3879393	21	10 19.9	19.4
46656 1995 WT_6	15.0	X	285.22705	146.95068	312.86759	5.23125	0.1125835	0.26577466	2.3958539	21	11 11.0	17.7
46657 1995 WM_{17}	16.1	X	24.18649	18.49303	2.70144	2.41222	0.2080933	0.27013432	2.3700065	21	—	—
46658 1995 YH_{12}	15.6	X	333.05923	343.20007	76.05710	3.10678	0.1673110	0.26709409	2.3879571	21	12 14.6	17.4
46659 1996 BB_5	15.0	X	124.37471	282.57348	7.19135	6.99491	0.1637806	0.22161584	2.7043870	21	12 30.2	19.5
46660 1996 BM_{17}	14.8	X	155.08886	49.79771	43.60414	4.93149	0.1307472	0.24626861	2.5207514	21	5 27.4	18.5
46661 1996 CP_1	14.8	X	110.41370	5.94491	95.73904	6.58031	0.1159498	0.24163149	2.5528994	21	4 19.2	18.2
46662 1996 DO	14.5	X	0.56255	146.16298	349.97920	3.45765	0.1160322	0.23100974	2.6305659	21	—	—
46663 1996 DR_2	15.2	X	173.56033	336.94429	331.45442	4.34272	0.0700243	0.23045933	2.6347526	21	—	—
46664 1996 EK_{10}	15.7	X	69.86842	257.78706	154.98252	3.21805	0.0633686	0.23024820	2.6363631	21	—	—
46665 1996 FD	13.7	X	139.99352	95.67459	31.80890	14.40261	0.1279799	0.24157899	2.5532692	21	6 25.1	17.8
46666 1996 FX_{21}	14.9	X	345.13749	186.19639	35.73340	2.63593	0.0565339	0.19468015	2.9484127	21	3 24.6	18.8
46667 1996 HM_2	14.0	X	311.54277	99.56573	48.81047	2.67674	0.1409726	0.22458730	2.6804801	21	—	—
46668 1996 HM_{10}	14.5	X	7.76088	258.22122	214.22520	12.24805	0.2230654	0.22696597	2.6617190	21	—	—
46669 Wangyongzhi	14.5	X	242.61628	120.30225	158.93900	13.04287	0.1054914	0.18564808	3.0432835	21	1 25.1	19.4
46670 1996 NU	12.5	X	276.40390	23.16061	156.85084	17.58121	0.0835422	0.17371352	3.1811218	21	—	—
46671 1996 NW_3	15.0	X	134.98189	277.23332	21.23634	0.04149	0.1734544	0.17095332	3.2152718	21	—	—
46672 1996 OA	14.1	X	150.56036	262.39773	100.48429	3.84922	0.1208320	0.18073563	3.0981816	21	2 6.7	18.7
46673 1996 OL_2	14.1	X	24.98674	144.71186	261.15015	8.87315	0.1556937	0.17042227	3.2219477	21	—	—
46674 1996 PY_8	13.4	X	253.33700	294.88949	333.47004	5.59664	0.0621948	0.18068257	3.0987881	21	1 29.4	17.9
46675 1996 QO	14.1	X	158.22741	227.77639	100.50130	2.80150	0.1697093	0.17569457	3.1571641	21	1 9.5	19.0
46676 1996 RF_{29}	12.0	X	128.69256	73.04676	173.61742	11.52400	0.1154614	0.08415232	5.1573346	21	10 28.5	19.3
46677 1996 TK_6	14.0	X	149.69922	191.30119	162.81200	11.24379	0.1247593	0.17697359	3.1419341	21	1 25.5	19.0
46678 1996 TZ_8	12.8	X	130.31414	62.75667	281.78954	20.60438	0.0535052	0.17079276	3.2172865	21	—	—
46679 1996 TE_{30}	16.3	X	43.31157	163.33460	39.14487	5.54890	0.1245805	0.30178856	2.2012407	21	5 20.9	18.1
46680 1996 YV	15.4	X	350.42194	5.94378	123.92928	4.95781	0.0746215	0.28244231	2.3006447	21	—	—
46681 1997 AN_5	14.9	X	139.97728	350.54861	61.95820	5.64702	0.1262344	0.29106401	2.2549853	21	3 16.3	17.9
46682 1997 AV_5	14.9	X	289.20101	249.35263	304.28239	3.47078	0.0949210	0.28067287	2.3103038	21	—	—
46683 1997 AK_8	16.0	X	137.79854	63.83893	143.99704	3.70756	0.1850969	0.26412289	2.4058323	21	10 10.9	19.9
46684 1997 AX_8	16.1	X	209.45023	219.00566	136.06209	4.95307	0.1469964	0.29187957	2.2507828	21	3 14.3	19.5
46685 1997 AG_{13}	14.8	X	274.91930	68.11777	69.07607	6.50444	0.1213587	0.27387040	2.3484031	21	12 20.1	17.2
46686 Anitasohus	15.6	X	253.02590	34.61148	325.49993	5.00118	0.1611994	0.30092749	2.2054378	21	4 28.5	18.7
46687 1997 AP_{18}	15.8	X	213.30111	96.84348	76.65786	3.10809	0.1436209	0.27108605	2.3644562	21	11 10.4	19.2
46688 1997 AB_{19}	15.3	X	126.51747	100.80858	173.66891	2.19413	0.2064633	0.27057162	2.3674522	21	12 21.3	19.3
46689 Hakuryuko	15.0	X	319.55437	39.00884	131.42192	6.17812	0.0729313	0.28285299	2.2984172	21	—	—
46690 1997 AN_{23}	15.4	X	158.21692	118.21765	309.42556	3.99024	0.0845283	0.29493987	2.2351863	21	4 17.7	18.3
46691 1997 BK_3	15.5	X	281.23057	121.01909	50.57607	1.40081	0.1517696	0.27675193	2.3320737	21	—	—
46692 Taormina	15.1	X	159.64342	33.52254	113.91709	7.97322	0.0812975	0.26083951	2.4259795	21	8 12.3	18.6
46693 1997 CK_4	14.7	X	237.50302	171.45027	64.37260	7.48012	0.0627736	0.27819959	2.3239765	21	—	—
46694 1997 CS_9	16.2	X	17.25865	101.61093	337.68781	6.90683	0.0727034	0.27774331	2.3265210	21	—	—
46695 1997 CX_{13}	15.8	X	105.34890	131.75773	119.62492	5.54378	0.0974539	0.26527049	2.3988886	21	10 30.4	19.2
46696 1997 CF_{20}	15.5	X	269.40946	158.21108	347.18504	6.29303	0.0586786	0.27179888	2.3603203	21	12 31.0	18.3
46697 1997 CM_{20}	15.6	X	212.05944	64.72408	74.28226	3.18713	0.1479320	0.26467314	2.4024967	21	9 25.0	19.0
46698 1997 CT_{25}	15.5	X	209.39345	223.03870	115.79625	7.39193	0.1540367	0.28927467	2.2642747	21	2 22.3	19.0
46699 1997 CL_{26}	15.0	X	213.09573	94.21382	73.19976	5.09900	0.1541625	0.26760561	2.3849132	21	11 1.4	18.5
46700 1997 CK_{27}	15.5	X	74.64007	345.79494	107.29923	5.49140	0.0954832	0.28683705	2.2770849	21	1 29.3	17.6
46701 1997 CP_{29}	15.2	X	257.17417	9.83379	148.48022	5.78204	0.0641342	0.27304379	2.3531404	21	12 29.4	18.0
46702 Linapucci	15.5	X	57.66498	297.29214	147.04657	6.05905	0.1390911	0.28347856	2.2950346	21	—	—
46703 1997 EC	15.0	X	146.94623	252.50602	133.23091	6.49350	0.1265398	0.28536487	2.2849097	21	2 15.1	17.8
46704 1997 EL_5	15.4	X	69.93604	175.69062	172.64709	2.47656	0.2331250	0.26936435	2.3745208	21	—	—
46705 1997 EE_{37}	15.8	X	336.46280	359.79258	113.57313	5.01071	0.0977100	0.27772308	2.3266340	21	—	—
46706 1997 ET_{41}	16.0	X	83.70297	166.88641	277.01230	1.89188	0.1437132	0.28640159	2.2793924	21	2 5.7	17.9
46707 1997 FH_3	16.0	X	230.60619	284.66197	187.39670	7.69176	0.0501855	0.26123086	2.4235560	21	9 20.0	19.2
46708 1997 FP_4	15.3	X	326.66948	292.21789	307.30514	2.14725	0.1395494	0.24406147	2.5359260	21	2 27.9	18.3
46709 1997 GU_6	14.8	X	62.19459	269.08448	23.46787	8.09182	0.1084045	0.25850302	2.4405758	21	10 29.9	18.0
46710 1997 GB_7	14.4	X	211.07687	178.20510	46.99122	3.30522	0.0128021	0.26914337	2.3758203	21	—	—
46711 1997 GW_7	15.4	X	230.10831	29.73740	70.11957	3.40706	0.1413829	0.25843052	2.4410322	21	8 24.2	18.8
46712 1997 GY_{14}	15.0	X	325.77804	20.81360	4.40693	7.23145	0.1180096	0.26147604	2.4220408	21	10 5.2	17.2
46713 1997 GO_{19}	15.5	X	225.12319	202.15682	303.58118	1.39230	0.0680288	0.26453025	2.4033618	21	10 26.5	18.5
46714 1997 HF_7	14.9	X	74.20554	10.63123	54.66575	1.45953	0.1777997	0.27737447	2.3285830	21	—	—
46715 1997 HE_{13}	14.9	X	92.37497	226.58002	52.44282	0.34440	0.1472258	0.17893391	3.1189443	21	11 10.9	19.7
46716 1997 NX	15.2	X	126.80391	146.35135	155.51882	14.99158	0.0907023	0.22236788	2.6982862	21	—	—
46717 1997 NY_5	14.4	X	57.09639	43.63329	301.23199	6.40557	0.1011615	0.21537358	2.7563927	21	12 22.1	18.2
46718 1997 NK_6	14.6	X	101.90068	101.13171	178.68614	7.43420	0.0977255	0.21560157	2.7544492	21	11 23.4	18.7
46719 Plantade	15.0	X	93.60585	116.08224	188.13163	7.25099	0.1225906	0.21741293	2.7391289	21	12 15.6	19.2
46720 Pierostroppa	15.4	X	224.22102	358.96087	324.45260	3.62361	0.2752658	0.18954168	3.0014623	21	2 23.3	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46721 1997 QW_3	14.8	X	147.03373	266.20241	109.38252	1.26024	0.2688796	0.18260180	3.0770367	21	3 1.8	19.9
46722 Ireneadler	13.8	X	136.45840	28.83977	354.97347	8.83252	0.0293771	0.18378556	3.0638097	21	2 7.2	18.2
46723 1997 RS_2	14.8	X	200.98100	312.67144	342.80211	7.63413	0.0216938	0.18196168	3.0842490	21	1 5.5	19.4
46724 1997 SU_7	14.1	X	26.62796	94.07447	354.17945	10.51078	0.1252404	0.17614825	3.1517407	21	—	—
46725 1997 SS_{13}	13.8	X	183.40343	56.76511	350.69827	9.35675	0.0981173	0.19031704	2.9933047	21	4 26.9	18.5
46726 1997 SA_{22}	14.4	X	227.06948	54.30378	328.77304	4.54049	0.2109527	0.19328325	2.9626015	21	5 6.4	19.3
46727 Hidekimatsuyama	13.5	X	302.08819	20.92745	315.75434	0.98677	0.1018699	0.19704707	2.9247543	21	6 15.1	17.1
46728 1997 SJ_{29}	14.0	X	143.42429	170.43914	288.77365	9.30996	0.0726713	0.19440370	2.9512072	21	5 18.8	18.4
46729 1997 SJ_{31}	15.2	X	241.09440	310.16751	334.13060	0.69634	0.0303582	0.18611574	3.0381834	21	2 4.5	19.7
46730 1997 TY_{16}	13.5	X	325.18796	318.94873	194.15119	16.94258	0.1000470	0.17646176	3.1480067	21	—	—
46731 Prieurblanc	13.9	X	309.74903	290.43542	0.17221	9.68165	0.0843584	0.19236357	2.9720366	21	4 25.5	18.1
46732 1997 TD_{19}	14.2	X	310.94695	145.20710	169.55039	2.22735	0.1043581	0.19537916	2.9413760	21	5 29.8	17.9
46733 1997 TA_{20}	14.6	X	182.47376	45.09886	217.81001	4.65567	0.1333402	0.17364297	3.1819835	21	—	—
46734 1997 TL_{25}	13.7	X	343.35436	328.50903	188.49984	22.28543	0.1025446	0.18177637	3.0863447	21	—	—
46735 1997 UG_1	13.4	X	205.24123	0.83245	33.20716	10.09067	0.0850242	0.19030141	2.9934686	21	5 5.4	18.1
46736 1997 UD_{21}	14.6	X	93.66046	359.79058	344.61457	4.64741	0.1432183	0.17285476	3.1916492	21	—	—
46737 Anpanman	14.0	X	255.51962	140.91935	74.03430	2.15940	0.1264540	0.17500456	3.1654574	21	—	—
46738 1997 VF_1	13.7	X	280.34144	23.73289	3.68800	15.55902	0.3022725	0.20049377	2.8911379	21	6 22.9	18.3
46739 1997 WH_{10}	14.9	X	293.01647	307.01044	135.34957	3.02419	0.0080652	0.20396090	2.8582800	21	11 2.9	18.7
46740 1997 WQ_{14}	15.7	X	248.97565	226.92376	250.62676	5.44857	0.1602944	0.28599843	2.2815340	21	10 6.5	18.5
46741 1997 WM_{15}	14.8	X	94.70608	281.83333	119.16696	2.05134	0.1761558	0.17742668	3.1365829	21	1 27.6	18.8
46742 1997 WQ_{15}	14.7	X	111.26941	152.16651	213.09480	4.76022	0.1728814	0.17561426	3.1581265	21	1 4.4	19.2
46743 1997 WE_{36}	13.6	X	41.29212	348.28798	49.67987	5.78028	0.1108128	0.16966268	3.2315571	21	—	—
46744 1997 WP_{38}	14.0	X	161.33636	90.55777	294.74335	0.81293	0.1880277	0.18313290	3.0710847	21	3 18.4	18.9
46745 1997 WK_{47}	14.1	X	239.73643	325.53541	65.68352	3.86828	0.1464291	0.19251607	2.9704669	21	6 3.3	18.8
46746 1998 BX_{24}	15.1	X	207.13308	44.56266	149.38344	5.48052	0.2047426	0.23904047	2.5713139	21	11 20.0	19.2
46747 1998 DF_9	15.9	X	75.91068	109.31793	69.59852	5.00128	0.0631294	0.30558317	2.1829800	21	6 2.2	18.2
46748 1998 DN_{23}	16.1	X	189.34919	43.48370	184.82203	2.57651	0.2292007	0.27873906	2.3209770	21	12 17.6	19.7
46749 1998 DM_{33}	14.7	X	85.34191	262.32493	333.24350	12.57671	0.2353824	0.22740382	2.6583014	21	9 22.7	18.9
46750 1998 EL_{14}	14.7	X	120.63517	214.27122	3.29915	12.75173	0.2437149	0.22862332	2.6488398	21	10 5.3	19.1
46751 1998 FD_{30}	14.7	X	356.83340	72.35324	215.58773	4.01165	0.1739444	0.30685431	2.1769472	21	7 5.1	15.9
46752 1998 FM_{35}	15.4	X	172.69260	122.21307	3.34375	3.07185	0.0299434	0.26827732	2.3809306	21	7 28.5	18.4
46753 1998 FL_{41}	16.2	X	229.38220	258.63855	355.10039	3.46181	0.1660521	0.28744393	2.2738787	21	—	—
46754 1998 FX_{49}	16.4	X	129.60620	236.48869	353.69018	1.23206	0.0976626	0.31623429	2.1336839	21	11 2.1	19.0
46755 1998 FL_{50}	15.1	X	357.56217	294.42634	11.89646	6.51585	0.2313472	0.30778529	2.1725552	21	8 21.0	15.9
46756 1998 FP_{55}	15.7	X	82.07783	121.52638	83.39187	2.33049	0.1332972	0.26547155	2.3976773	21	8 2.5	18.8
46757 1998 FX_{57}	15.4	X	22.70307	110.49073	205.21104	4.48148	0.2166645	0.31158867	2.1548396	21	11 3.2	17.1
46758 1998 FQ_{59}	16.0	X	43.06562	54.22033	132.76701	3.38857	0.1232851	0.30153471	2.2024759	21	4 26.9	17.7
46759 1998 FK_{65}	15.1	X	288.60178	64.77638	216.06733	4.83971	0.1775761	0.29611741	2.2292567	21	2 19.2	18.2
46760 1998 FK_{67}	14.9	X	134.48333	168.87800	148.69794	5.99816	0.1660068	0.28286261	2.2983651	21	—	—
46761 1998 FC_{71}	15.7	X	293.27220	58.36261	199.50009	2.45167	0.1140461	0.29466300	2.2365862	21	2 3.2	18.7
46762 1998 FM_{78}	15.1	X	333.29581	247.21296	70.91081	4.34612	0.1568149	0.30586048	2.1816604	21	7 2.9	16.7
46763 1998 FE_{79}	14.7	X	119.59607	54.50467	41.87978	12.70776	0.2465985	0.25981056	2.4323805	21	5 5.3	18.4
46764 1998 FE_{95}	16.0	X	304.06702	130.89374	105.95662	8.11678	0.1347649	0.29497333	2.2350172	21	1 17.5	18.7
46765 1998 FN_{109}	14.5	X	37.77590	320.50524	282.56287	4.47989	0.0363698	0.30674350	2.1774715	21	7 5.9	16.4
46766 1998 FU_{115}	16.0	X	3.75839	301.42345	301.19021	3.80849	0.0592550	0.30212594	2.1996017	21	5 5.9	18.3
46767 1998 FX_{115}	16.1	X	116.77259	248.36539	302.81281	5.35595	0.1066453	0.30969434	2.1636178	21	8 23.8	19.0
46768 1998 FK_{122}	16.3	X	354.69576	14.39930	200.92085	3.10807	0.0968560	0.29811973	2.2192637	21	3 5.8	18.6
46769 1998 HJ_2	16.0	X	301.40582	185.97801	122.62275	3.53192	0.1545308	0.30050033	2.2075273	21	4 21.3	18.5
46770 1998 HY_5	16.0	X	268.31816	214.36863	168.09713	5.66169	0.0878049	0.30683343	2.1770460	21	7 1.4	18.6
46771 1998 HM_7	14.6	X	130.68317	280.65581	56.47400	23.55198	0.2992477	0.28106401	2.3081599	21	—	—
46772 1998 HD_8	15.3	X	49.64881	38.46772	161.92508	4.29336	0.0587681	0.30134648	2.2033930	21	5 23.6	17.5
46773 1998 HZ_{12}	15.1	X	257.97752	160.09388	107.23697	5.76474	0.2758338	0.29134356	2.2535426	21	1 2.4	19.0
46774 1998 HO_{30}	14.7	X	39.49394	255.07732	75.71129	3.39115	0.2058769	0.31509612	2.1388189	21	12 17.1	17.2
46775 1998 HC_{42}	16.0	X	227.75631	263.97339	67.03346	7.15747	0.2059981	0.29355020	2.2422350	21	3 2.1	19.7
46776 1998 HN_{49}	15.1	X	209.91539	35.52876	215.50710	3.46551	0.1156546	0.28196632	2.3032331	21	—	—
46777 1998 HO_{51}	15.6	X	254.45927	174.62592	98.67519	3.74268	0.0970279	0.29049470	2.2579305	21	1 14.1	18.8
46778 1998 HR_{51}	15.3	X	61.96508	167.75368	82.09336	2.89046	0.1220265	0.30902051	2.1667618	21	9 10.8	17.7
46779 1998 HY_{51}	15.6	X	106.30692	225.53682	57.41352	5.11128	0.2409544	0.27282096	2.3544216	21	12 16.5	19.5
46780 1998 HH_{52}	14.5	X	346.51564	327.61693	35.61893	7.11829	0.2383568	0.31143535	2.1555467	21	11 6.2	15.3
46781 1998 HH_{86}	16.4	X	306.20284	43.31581	216.67339	6.03383	0.0885131	0.29562883	2.2317122	21	2 24.3	19.3
46782 1998 HJ_{98}	15.4	X	359.88262	270.67586	357.19520	3.42395	0.0938958	0.30230672	2.1987247	21	6 8.6	17.3
46783 1998 HU_{101}	16.0	X	224.96626	4.99060	240.07085	6.43558	0.2089688	0.28295714	2.2978532	21	—	—
46784 1998 HK_{117}	15.7	X	269.90031	185.71786	79.54053	7.32685	0.1028249	0.29168021	2.2518083	21	1 20.8	18.8
46785 1998 HQ_{117}	15.6	X	32.56896	107.35909	133.40266	5.19837	0.1376220	0.30357918	2.1925764	21	7 5.2	17.2
46786 1998 HH_{125}	15.6	X	16.33201	57.82305	152.16191	8.37613	0.0676870	0.29813925	2.2191668	21	4 12.3	17.8
46787 1998 HL_{129}	14.8	X	23.20318	77.73265	347.12211	7.39743	0.2373882	0.24490060	2.5301299	21	—	—
46788 1998 HP_{139}	14.8	X	40.80049	233.66815	340.16843	3.62880	0.0762487	0.30278611	2.1964033	21	5 28.9	16.8
46789 1998 HG_{141}	15.7	X	250.97796	169.81968	99.18768	6.14488	0.1259808	0.28999366	2.2605306	21	1 3.7	19.0
46790 1998 HG_{149}	15.1	X	240.29661	70.47668	265.32605	4.68729	0.2090427	0.29303480	2.2448634	21	3 12.5	18.8
46791 1998 HW_{149}	14.8	X	234.51580	205.78674	22.08753	5.96393	0.1092434	0.28236151	2.3010835	21	—	—
46792 1998 HK_{153}	14.9	X	213.86058	108.28487	146.36107	13.92433	0.2973144	0.24119339	2.5559898	21	—	—
46793 Phinney	14.9	X	246.10076	297.35011	1.77607	6.55826	0.1817807	0.29143020	2.2530959	21	2 5.7	18.4
46794 1998 JW_2	15.0	X	199.52313	132.41630	121.24312	6.12803	0.1151586	0.28126018	2.3070865	21	—	—
46795 1998 JW_4	15.9	X	176.06644	226.90629	17.37279	5.38518	0.2226312	0.27741327	2.3283659	21	12 25.9	19.7
46796 Mamigasakigawa	14.5	X	213.98329	153.98212	96.46112	8.05396	0.0820809	0.28178069	2.3042445	21	—	—
46797 1998 KA_4	15.3	X	277.52605	207.86698	80.54862	7.95933	0.1568493	0.29318609	2.2440910	21	2 25.7	18.6
46798 1998 KU_4	14.6	X	150.91825	272.93775	75.09786	7.72479	0.1504192	0.28422565	2.2910111	21	1 4.2	17.6
46799 1998 KY_8	14.6	X	199.40595	99.26458	151.10188	7.96707	0.1668625	0.28033515	2.3121589	21	—	—
46800 1998 KH_{27}	14.2	X	4.74513	191.29714	167.13680	3.44841	0.1564531	0.31166278	2.1544980	21	11 26.7	16.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46801 1998 KP_{29}	16.2	X	39.14829	46.86194	147.71853	5.19407	0.1263690	0.29912895	2.2142692	21	5 2.7	18.0
46802 1998 KX_{30}	16.0	X	255.33470	306.39940	232.14706	2.84183	0.1166107	0.28034024	2.3121309	21	—	—
46803 1998 KL_{33}	15.6	X	356.39706	147.51641	49.89618	6.75565	0.0805141	0.29351384	2.2424202	21	2 18.0	18.0
46804 1998 KH_{34}	15.5	X	223.67533	95.00707	134.15327	4.85989	0.1202089	0.28129091	2.3069185	21	—	—
46805 1998 KX_{34}	15.5	X	223.83287	45.29070	206.27882	7.27893	0.0924792	0.28327477	2.2961352	21	—	—
46806 1998 KJ_{39}	15.7	X	97.57680	233.02315	66.37699	6.56778	0.2080534	0.27179458	2.3603452	21	12 27.6	19.5
46807 1998 KT_{45}	15.6	X	120.24781	241.83638	63.01424	4.85591	0.2569027	0.27407541	2.3472319	21	—	—
46808 1998 KX_{45}	15.6	X	222.97590	179.21331	121.59891	2.83053	0.1715531	0.28680756	2.2772409	21	1 17.0	19.0
46809 1998 KD_{47}	15.2	X	288.97953	50.92256	229.11104	3.98332	0.1465410	0.29280429	2.2460414	21	2 22.8	18.4
46810 1998 KK_{47}	15.2	X	250.55817	179.49695	90.32425	7.46685	0.1702800	0.28718410	2.2752500	21	1 3.4	18.8
46811 1998 KY_{47}	14.8	X	323.27522	138.24413	132.71766	4.68765	0.1266412	0.29610933	2.2292973	21	4 4.9	17.2
46812 1998 KO_{64}	15.6	X	45.02616	75.09068	89.41659	4.91750	0.0720460	0.29539598	2.2328849	21	3 24.4	17.8
46813 1998 KQ_{64}	15.1	X	164.06994	211.73154	107.71872	7.52945	0.2225531	0.28133458	2.3066798	21	—	—
46814 1998 KS_{64}	15.7	X	184.82146	98.03848	154.99370	3.26251	0.1860424	0.27841387	2.3227839	21	—	—
46815 1998 MG_{3}	15.5	X	202.11220	139.74035	98.10651	3.31752	0.2029955	0.27884679	2.3203791	21	—	—
46816 1998 MR_{13}	14.7	X	136.63526	31.42897	265.23343	12.29763	0.2065380	0.27485001	2.3428197	21	—	—
46817 1998 MG_{16}	16.1	X	20.79217	224.73610	150.03751	2.74701	0.2239984	0.26461917	2.4028234	21	—	—
46818 1998 MZ_{24}	14.2	X	106.41689	100.17315	260.84100	21.51134	0.3313644	0.27606670	2.3359312	21	—	—
46819 1998 MH_{27}	14.3	X	169.09015	183.55503	100.53295	6.49270	0.1785807	0.27708584	2.3301998	21	—	—
46820 1998 MK_{28}	15.7	X	57.95537	51.54274	260.67308	1.70901	0.1751688	0.26617192	2.3934695	21	12 1.1	19.0
46821 1998 MV_{31}	14.6	X	159.47900	169.20197	95.25351	12.30816	0.1760276	0.27412465	2.3469508	21	—	—
46822 1998 MQ_{32}	14.1	X	108.64409	54.77547	279.00263	12.42693	0.2006874	0.23065214	2.6332842	21	—	—
46823 1998 MN_{35}	14.9	X	204.62833	183.63244	105.61582	2.73091	0.0566169	0.28096189	2.3087191	21	—	—
46824 Tambora	15.5	X	104.13533	333.82079	265.09586	5.40423	0.0860673	0.26413007	2.4057887	21	10 6.1	18.9
46825 1998 OJ_{2}	14.8	X	82.41609	138.19427	151.05781	5.96330	0.0505620	0.26315596	2.4117220	21	11 15.8	18.0
46826 1998 OC_{7}	15.0	X	30.58054	134.71487	162.65846	8.12396	0.1174897	0.25891662	2.4379760	21	9 24.7	17.6
46827 1998 OJ_{7}	14.6	X	34.86093	110.65326	225.70287	5.26803	0.1545701	0.26310631	2.4120254	21	11 30.5	17.5
46828 1998 OU_{10}	14.8	X	39.62478	190.15606	139.18422	7.64198	0.1340015	0.26367583	2.4085510	21	11 26.3	17.9
46829 McMahon	15.0	X	32.97928	25.60681	334.87618	5.59496	0.1804134	0.26513664	2.3996959	21	—	—
46830 1998 PU	14.6	X	41.79388	31.73559	332.09243	6.11347	0.2054715	0.26591250	2.3950259	21	—	—
46831 1998 QH	14.9	X	102.08665	299.65509	335.51206	7.43873	0.1018804	0.26467040	2.4025133	21	11 21.9	18.6
46832 1998 QQ_{1}	14.9	X	319.44445	254.23070	156.04415	4.47327	0.1897170	0.26045544	2.4283639	21	10 30.0	16.8
46833 1998 QB_{8}	15.2	X	3.41898	96.87776	222.78384	5.39086	0.1465052	0.25902492	2.4372964	21	9 7.8	17.5
46834 1998 QL_{11}	15.3	X	7.91398	161.99927	163.66960	0.30543	0.1528030	0.25974694	2.4327777	21	9 30.1	17.6
46835 1998 QR_{11}	15.3	X	53.33645	27.53859	280.00789	3.54369	0.1977284	0.26374113	2.4081533	21	11 21.8	18.6
46836 1998 QM_{12}	14.6	X	139.06148	74.41500	182.66825	7.60135	0.1081913	0.26857990	2.3791421	21	12 11.2	18.3
46837 1998 QB_{13}	14.7	X	349.54484	334.43582	147.75160	6.90087	0.0714670	0.27622673	2.3350289	21	—	—
46838 1998 QS_{13}	15.6	X	28.76855	345.57635	336.15848	0.69770	0.2247897	0.26183059	2.4198538	21	11 12.3	18.1
46839 1998 QB_{14}	15.4	X	286.69045	207.16526	181.49698	5.76013	0.2397595	0.25472432	2.4646530	21	7 10.9	18.5
46840 1998 QZ_{17}	14.6	X	333.69613	275.68368	218.37654	4.94315	0.0703594	0.27501915	2.3418591	21	—	—
46841 1998 QE_{19}	15.4	X	256.63254	144.16116	136.44131	11.08763	0.0955220	0.24143874	2.5542579	21	2 2.9	19.2
46842 1998 QK_{20}	15.3	X	274.16251	124.10056	236.76406	3.16554	0.0595965	0.25155330	2.4853222	21	6 14.1	18.6
46843 1998 QO_{22}	15.0	X	41.01582	311.83392	33.22310	3.73103	0.2059071	0.26495340	2.4008022	21	12 27.8	18.2
46844 1998 QW_{22}	14.5	X	92.63831	71.49130	13.98882	3.86718	0.0913045	0.28255221	2.3000481	21	2 18.4	16.9
46845 1998 QB_{24}	14.7	X	9.09620	127.87162	272.51754	5.69618	0.1149974	0.26624968	2.3930034	21	—	—
46846 1998 QN_{24}	14.9	X	211.13139	195.94701	182.51883	5.95649	0.0715071	0.24564967	2.5249838	21	4 20.4	18.5
46847 1998 QM_{26}	16.1	X	354.77716	241.49182	143.95744	2.79968	0.1819235	0.26315174	2.4117478	21	12 8.8	18.3
46848 1998 QQ_{35}	14.9	X	346.48751	5.62420	34.40674	2.58218	0.2012453	0.26252313	2.4155962	21	12 15.8	16.8
46849 1998 QD_{36}	15.4	X	206.23506	172.47226	159.84264	8.20501	0.1714017	0.23984846	2.5655359	21	2 15.3	19.5
46850 1998 QO_{37}	14.9	X	293.31854	75.17687	181.86793	6.44461	0.2186067	0.24393470	2.5368045	21	1 28.8	18.7
46851 1998 QN_{39}	15.4	X	331.53804	278.96615	49.64776	2.77326	0.1967769	0.25471454	2.4647160	21	7 11.7	17.5
46852 1998 QC_{41}	13.9	X	112.57440	310.72389	328.18605	9.60601	0.1234194	0.22317995	2.6917369	21	12 3.3	18.2
46853 1998 QC_{42}	15.0	X	65.16281	270.00709	11.52855	6.75739	0.2000203	0.26197519	2.4189633	21	10 31.7	18.4
46854 1998 QY_{42}	14.2	X	203.42665	37.85834	160.21046	10.74740	0.1380517	0.26734525	2.3864613	21	12 2.5	17.8
46855 1998 QR_{44}	15.1	X	340.88783	149.90266	157.09141	4.28137	0.1771897	0.25363271	2.4717197	21	6 29.1	17.2
46856 1998 QK_{45}	15.2	X	346.45358	105.39196	215.75458	5.52447	0.1840205	0.25523450	2.4613675	21	8 2.9	17.4
46857 1998 QN_{45}	14.6	X	254.98292	346.81770	188.36416	12.04651	0.1111875	0.26934912	2.3746103	21	—	—
46858 1998 QB_{50}	14.5	X	89.96638	257.25485	10.60807	8.10361	0.1089833	0.26233872	2.4167281	21	10 30.6	18.0
46859 1998 QB_{51}	15.3	X	26.60783	136.12947	153.56268	5.11586	0.1792872	0.25722039	2.4486824	21	9 15.6	17.6
46860 1998 QP_{60}	14.9	X	332.35378	127.69990	247.92869	5.66660	0.1219855	0.25895242	2.4377513	21	9 30.5	17.4
46861 1998 QJ_{73}	14.3	X	6.07576	278.97958	204.52691	11.73301	0.1041131	0.23221299	2.6214709	21	—	—
46862 1998 QP_{74}	14.4	X	69.39025	287.81813	218.65201	12.33063	0.0961503	0.24289639	2.5440287	21	4 14.2	17.5
46863 1998 QE_{75}	14.5	X	257.67717	230.68222	317.04797	14.49928	0.0740558	0.22774636	2.6556352	21	—	—
46864 1998 QV_{86}	14.4	X	26.28384	252.70430	227.32571	14.32011	0.1203015	0.23326348	2.6135946	21	—	—
46865 1998 QZ_{86}	15.4	X	305.62977	159.31995	226.87502	11.54134	0.1882913	0.25537807	2.4604449	21	8 13.1	18.3
46866 1998 QW_{87}	15.0	X	172.19154	185.50388	221.67865	14.09964	0.1062993	0.24209120	2.5496665	21	4 13.3	18.9
46867 1998 QN_{91}	14.4	X	273.96969	333.39213	1.24964	14.46873	0.2244699	0.24604807	2.5222574	21	4 12.8	18.4
46868 1998 QM_{93}	13.9	X	305.46672	293.48353	27.27064	15.84069	0.1693881	0.24600606	2.5225445	21	5 11.7	17.1
46869 1998 QC_{97}	15.5	X	69.66700	69.75858	250.25452	5.79223	0.1152987	0.26644742	2.3918193	21	12 17.1	18.7
46870 1998 QC_{100}	14.8	X	26.78554	158.73860	126.81612	6.22175	0.1798173	0.25647711	2.4534110	21	9 10.9	17.2
46871 1998 QF_{100}	14.8	X	40.21486	294.74829	154.47652	12.22533	0.1607083	0.23018683	2.6368317	21	—	—
46872 1998 QP_{101}	14.4	X	342.95265	57.77989	42.66080	3.75712	0.0551453	0.22645118	2.6657515	21	—	—
46873 1998 QZ_{101}	15.0	X	297.09488	101.64837	156.84718	9.90761	0.0278957	0.24087041	2.5582741	21	3 3.7	18.3
46874 1998 QC_{103}	14.9	X	120.77736	329.26420	56.89257	3.34110	0.2071032	0.23295604	2.6158935	21	2 5.4	18.4
46875 1998 QD_{104}	13.8	X	144.77357	324.02016	137.10907	8.21044	0.2266114	0.24268506	2.5455054	21	6 4.8	18.1
46876 1998 QV_{104}	14.9	X	109.48471	311.89492	70.26211	5.31623	0.1516799	0.23131455	2.6282545	21	1 8.3	18.1
46877 1998 RU	15.6	X	6.80374	76.82816	338.32486	6.75663	0.0879938	0.26764860	2.3846578	21	—	—
46878 1998 RD_{4}	14.7	X	204.93016	317.66047	350.53966	17.55620	0.2502887	0.23685559	2.5871024	21	1 24.8	19.5
46879 1998 RZ_{4}	15.4	X	326.83817	358.52013	177.82961	22.76415	0.0655471	0.36223374	1.9489923	21	—	—
46880 1998 RC_{5}	15.0	X	146.31064	81.82824	350.71766	6.09648	0.2363823	0.24060229	2.5601744	21	4 28.4	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46881 1998 RU_5	14.7	X	156.05715	229.72597	176.45553	9.83639	0.0888242	0.23870217	2.5737427	21	3 26.5	18.5
46882 1998 RL_9	15.5	X	343.66024	158.05815	161.59638	5.80826	0.0479028	0.25461979	2.4653275	21	7 31.8	18.4
46883 1998 RT_{15}	15.1	X	227.42989	340.45991	323.20702	8.51861	0.1185891	0.23836480	2.5761707	21	2 1.9	19.1
46884 1998 RY_{16}	15.1	X	309.64862	272.11226	108.90625	3.37428	0.2065614	0.25681538	2.4512561	21	8 16.9	17.2
46885 1998 RR_{18}	15.5	X	133.95279	239.92820	144.82029	3.10540	0.1955668	0.23574025	2.5952561	21	2 15.1	19.0
46886 1998 RU_{29}	15.5	X	242.68957	306.39147	15.03629	4.36863	0.1157413	0.24271085	2.5453251	21	3 10.7	19.2
46887 1998 RV_{29}	15.1	X	170.39846	355.27625	4.71618	7.48350	0.1054853	0.23769685	2.5809946	21	2 15.4	18.9
46888 1998 RG_{37}	14.7	X	332.49999	185.47851	234.68170	4.84435	0.1909967	0.26163302	2.4210719	21	12 14.7	16.5
46889 1998 RD_{43}	15.2	X	15.16656	46.67011	309.06272	3.89513	0.0818340	0.21816117	2.7328622	21	11 6.1	18.6
46890 1998 RK_{48}	14.8	X	320.62765	329.89737	212.31162	3.92985	0.1261600	0.23377771	2.6097605	21	—	—
46891 1998 RV_{50}	15.5	X	104.32152	170.30697	222.45054	2.48352	0.1019750	0.23218888	2.6216524	21	1 6.5	18.6
46892 1998 RJ_{51}	15.4	X	155.89875	88.59727	269.84399	4.15913	0.0477480	0.23483232	2.6019412	21	1 19.7	18.9
46893 1998 RF_{52}	14.8	X	146.79959	41.19886	12.82879	12.70566	0.1702737	0.23922986	2.5699566	21	4 2.5	18.7
46894 1998 RG_{52}	15.3	X	90.42462	27.29607	49.46281	5.34346	0.2838464	0.23357444	2.6112743	21	3 16.9	18.5
46895 1998 RX_{52}	15.3	X	185.66888	229.05034	44.66973	3.71371	0.1299624	0.23024669	2.6363746	21	—	—
46896 1998 RR_{53}	15.8	X	182.85241	99.97427	206.01073	7.27856	0.2002018	0.23374762	2.6099844	21	—	—
46897 1998 RP_{55}	15.0	X	254.94891	16.54775	296.40337	4.69479	0.0060016	0.24108722	2.5567401	21	3 20.5	18.4
46898 1998 RW_{57}	15.6	X	233.91919	241.41177	113.20965	1.77098	0.1124058	0.24407302	2.5358460	21	4 12.5	19.4
46899 1998 RF_{60}	15.3	X	91.28571	108.22997	319.03330	3.38883	0.2266545	0.23251730	2.6191831	21	2 21.1	18.4
46900 1998 RG_{60}	15.8	X	189.30379	158.80477	212.56168	4.21479	0.2688706	0.23971092	2.5665171	21	3 21.6	20.4
46901 1998 RQ_{60}	14.9	X	69.79327	69.06569	266.27328	4.07867	0.0584934	0.22159096	2.7045895	21	12 20.8	18.7
46902 1998 RY_{60}	14.0	X	248.49313	336.85420	346.71795	13.61901	0.1742576	0.24252535	2.5466228	21	3 13.1	18.1
46903 1998 RQ_{61}	14.8	X	105.44863	103.57192	329.27857	3.95536	0.1558376	0.23542917	2.5975417	21	3 8.3	18.0
46904 1998 RG_{63}	15.6	X	212.57067	205.33100	136.02855	5.67943	0.2620112	0.24051946	2.5607621	21	3 4.9	20.2
46905 1998 RT_{63}	14.2	X	98.67982	351.61842	159.20786	12.10633	0.1135949	0.24532050	2.5272420	21	6 7.9	17.8
46906 1998 RG_{66}	14.6	X	159.35950	261.52895	190.66746	12.16910	0.1282735	0.24416790	2.5351890	21	5 31.9	18.6
46907 1998 RQ_{70}	14.4	X	332.28122	335.87539	156.21982	11.79497	0.1211668	0.22732229	2.6589370	21	—	—
46908 1998 RV_{71}	15.0	X	48.99545	43.62276	109.67301	1.59372	0.0747417	0.23967077	2.5668038	21	3 22.4	17.9
46909 1998 RF_{72}	14.1	X	304.62248	92.37918	178.20873	14.95435	0.0832666	0.24275657	2.5450055	21	3 20.7	17.3
46910 1998 RM_{72}	15.4	X	287.63195	181.56711	152.52085	2.23318	0.0610343	0.24762893	2.5115113	21	5 26.8	18.5
46911 1998 RW_{72}	15.9	X	197.39523	292.66588	23.01353	1.87547	0.2232905	0.23595350	2.5936922	21	1 22.3	20.3
46912 1998 RY_{72}	14.8	X	44.85209	257.96751	176.83900	2.47272	0.1126113	0.22846678	2.6500497	21	—	—
46913 1998 RD_{74}	15.3	X	146.10831	99.52337	256.48055	4.17170	0.1399070	0.23252448	2.6191292	21	1 16.8	19.0
46914 1998 RX_{74}	14.7	X	37.84088	142.52610	315.00288	1.41156	0.1638115	0.22923766	2.6441053	21	—	—
46915 1998 RK_{75}	13.3	X	294.59276	150.13684	13.62039	11.45583	0.1052414	0.22628965	2.6670199	21	—	—
46916 1998 RG_{77}	15.5	X	141.15700	262.33760	149.62328	6.43479	0.0525683	0.23840985	2.5758461	21	3 12.8	19.0
46917 1998 SA	14.5	X	274.88249	130.39183	196.85205	4.30190	0.2423452	0.24529475	2.5274188	21	4 6.3	18.1
46918 1998 SC	13.3	X	136.83500	174.99273	46.23787	9.98620	0.2132908	0.21730121	2.7400676	21	10 23.3	17.9
46919 1998 SN_3	14.9	X	282.37906	23.69190	90.49129	5.97645	0.1174218	0.21878126	2.7276960	21	11 18.9	18.2
46920 Suzanedwards	14.2	X	98.36614	242.95397	149.10822	27.54552	0.0246401	0.22813792	2.6525957	21	—	—
46921 1998 SW_{13}	14.4	X	286.14263	156.09594	149.64030	15.95580	0.2360246	0.20420458	2.8560056	21	3 30.3	18.8
46922 1998 ST_{19}	15.1	X	167.86809	315.97509	196.50642	1.46180	0.1131956	0.25600810	2.4564065	21	8 26.5	18.7
46923 1998 SG_{24}	14.7	X	343.02167	353.48917	61.65199	3.91359	0.0777553	0.26376362	2.4080164	21	12 18.4	17.3
46924 1998 SP_{26}	16.1	X	174.37014	72.85785	269.62321	0.60864	0.1609325	0.23509440	2.6000071	21	1 30.9	20.1
46925 1998 SS_{27}	13.0	X	223.48763	351.47891	304.88813	27.61491	0.0487827	0.23362705	2.6108823	21	1 22.0	16.7
46926 1998 SR_{33}	14.9	X	117.96525	65.27575	348.05099	12.83873	0.3305509	0.23390640	2.6088032	21	3 20.2	18.9
46927 1998 SP_{54}	15.4	X	156.10660	261.39743	188.65820	4.22498	0.2234866	0.24290812	2.5439468	21	5 30.6	19.6
46928 1998 SJ_{57}	14.3	X	355.20172	11.03131	169.70327	13.74052	0.1079070	0.23761845	2.5815623	21	1 27.5	17.5
46929 1998 SO_{57}	14.9	X	110.22750	18.09556	70.61129	2.39476	0.1109666	0.23879108	2.5731038	21	3 30.2	18.2
46930 1998 SV_{58}	14.8	X	65.47476	262.08654	174.10528	5.66978	0.1745376	0.23051690	2.6343140	21	1 11.7	17.5
46931 1998 SW_{59}	15.5	X	235.96259	228.02174	149.73142	5.87325	0.2500738	0.24575798	2.5242418	21	5 6.1	19.8
46932 1998 SZ_{60}	15.8	X	176.44230	141.37783	162.39179	5.43703	0.2092970	0.23264295	2.6182400	21	—	—
46933 1998 SP_{62}	14.8	X	325.32139	23.42161	21.19201	5.82603	0.0582039	0.21578009	2.7529298	21	10 26.1	18.1
46934 1998 SN_{63}	15.3	X	157.20194	207.21851	195.80543	2.41677	0.1740625	0.23908900	2.5709659	21	3 30.1	19.2
46935 1998 SL_{65}	14.5	X	11.99650	254.81607	126.20394	4.09704	0.0341247	0.26124187	2.4234879	21	12 10.0	17.5
46936 1998 SN_{67}	14.3	X	31.74685	70.04770	40.49098	15.64193	0.1678771	0.22843263	2.6503138	21	—	—
46937 1998 SA_{71}	14.3	X	123.52856	288.51454	183.43550	9.58640	0.1300841	0.24070344	2.5594571	21	5 19.6	18.0
46938 1998 SP_{71}	15.0	X	46.86450	309.35403	106.14202	1.60651	0.0503119	0.22598388	2.6694251	21	—	—
46939 1998 SM_{73}	14.7	X	309.40868	302.54546	164.72221	5.39545	0.1231260	0.21948415	2.7218693	21	12 22.3	17.7
46940 1998 SK_{74}	14.7	X	267.12052	332.96584	119.68924	4.56951	0.1498915	0.21193906	2.7860915	21	9 24.7	18.4
46941 1998 SQ_{74}	14.5	X	264.26998	64.43948	76.58752	4.55114	0.0426536	0.21905491	2.7254238	21	12 7.1	18.0
46942 1998 SL_{75}	15.3	X	127.64553	222.42334	98.31473	3.61814	0.2058006	0.22693420	2.6619675	21	—	—
46943 1998 SZ_{99}	14.2	X	87.01196	264.77008	215.90790	12.59293	0.1123478	0.23864676	2.5741411	21	4 7.8	17.4
46944 1998 SO_{102}	14.2	X	198.93486	175.04899	22.30897	8.48484	0.1144495	0.21985669	2.7187937	21	11 18.2	18.4
46945 1998 SB_{107}	14.6	X	40.80166	2.09118	10.30796	6.11728	0.0481684	0.22151217	2.7052308	21	12 30.4	18.3
46946 1998 SR_{111}	13.5	X	335.71093	103.85919	16.75645	13.39893	0.1019242	0.22527165	2.6750487	21	—	—
46947 1998 SZ_{111}	15.4	X	188.41431	301.08069	28.92450	8.03336	0.2024873	0.23576404	2.5950815	21	2 2.6	19.8
46948 1998 SU_{114}	15.2	X	158.62058	221.89699	71.42761	3.60073	0.0854559	0.22715942	2.6602077	21	—	—
46949 1998 SL_{117}	14.1	X	328.34720	355.50187	214.57417	10.09642	0.1039109	0.23615455	2.5922199	21	1 26.7	17.6
46950 1998 SA_{118}	13.6	X	10.73973	67.71862	4.50165	8.63882	0.1069488	0.22340207	2.6899524	21	—	—
46951 1998 SQ_{118}	14.3	X	232.87920	122.46131	194.18195	7.42602	0.2204175	0.23972577	2.5664112	21	2 16.7	18.7
46952 1998 SQ_{119}	15.7	X	251.14638	285.84726	57.79825	2.72458	0.1741720	0.24427661	2.5344367	21	4 11.4	19.6
46953 1998 SB_{121}	14.6	X	335.26495	285.41859	177.24719	6.46270	0.1091956	0.22281194	2.6946999	21	—	—
46954 1998 SL_{121}	14.6	X	276.81500	192.62193	215.89572	11.92762	0.1628198	0.20894929	2.8126053	21	8 1.6	18.7
46955 1998 SS_{121}	15.0	X	348.93889	176.53309	244.92896	4.21489	0.1046961	0.21951040	2.7216524	21	12 26.7	18.1
46956 1998 SQ_{123}	15.6	X	126.18713	192.49458	186.11273	3.28328	0.2335759	0.23185030	2.6242041	21	2 3.6	19.5
46957 1998 SD_{129}	14.4	X	257.53657	61.61819	188.31998	13.42522	0.1760891	0.23406049	2.6076581	21	—	—
46958 1998 SM_{129}	14.8	X	111.61328	149.71118	172.85602	2.48487	0.0759991	0.22417087	2.6837987	21	—	—
46959 1998 SW_{129}	13.9	X	350.84257	94.44182	20.50029	13.11247	0.1442579	0.22506459	2.6766891	21	—	—
46960 1998 ST_{130}	14.0	X	255.30645	321.08650	203.77382	12.67511	0.0213732	0.22130339	2.7069319	21	12 27.7	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
46961 1998 SC_{132}	15.6	X	22.50044	348.25794	304.32376	4.03952	0.1963016	0.29798382	2.2199384	21	9 17.7	17.4
46962 1998 SD_{132}	14.6	X	193.23525	14.86299	317.33690	4.36711	0.1614900	0.23531917	2.5983511	21	2 4.9	18.9
46963 1998 SJ_{132}	14.7	X	303.43822	140.24757	316.11647	4.45062	0.0492732	0.21813538	2.7330777	21	12 1.8	18.3
46964 1998 SE_{134}	14.5	X	114.40975	169.74447	196.52685	4.14650	0.1153819	0.22901518	2.6458174	21	—	—
46965 1998 SN_{134}	14.5	X	338.48331	12.57408	29.69139	5.05717	0.0797131	0.25978480	2.4325413	21	11 21.2	17.2
46966 1998 SP_{134}	14.9	X	354.50199	5.30035	26.27188	3.39838	0.1308168	0.26047199	2.4282610	21	12 8.7	17.4
46967 1998 SR_{134}	15.0	X	266.56317	241.65993	185.81006	4.56740	0.2129187	0.25216254	2.4813175	21	8 10.9	18.4
46968 1998 SJ_{135}	14.6	X	292.72417	148.69794	163.70385	5.16747	0.1753647	0.24603957	2.5223155	21	4 17.1	17.9
46969 1998 SP_{137}	15.0	X	8.82267	346.33295	94.89165	4.99791	0.1823405	0.22332149	2.6905994	21	—	—
46970 1998 SW_{137}	15.0	X	186.92145	60.83954	181.45520	5.95114	0.0363484	0.22277138	2.6950270	21	—	—
46971 1998 SE_{138}	14.4	X	66.18820	293.54878	15.27660	5.60950	0.0855534	0.21705979	2.7420990	21	11 14.9	18.2
46972 1998 SV_{138}	14.4	X	218.22411	330.94828	6.73656	9.53491	0.1157618	0.23856253	2.5747470	21	3 7.9	18.3
46973 1998 SE_{139}	14.8	X	9.86334	220.41614	215.69202	12.27505	0.1262025	0.22300207	2.6931681	21	—	—
46974 1998 SA_{140}	14.9	X	227.65169	78.25026	223.75124	12.12068	0.1917177	0.23658278	2.5890909	21	1 25.6	19.5
46975 1998 SC_{140}	14.5	X	96.40991	218.00971	216.80818	13.64407	0.1493701	0.23295317	2.6159151	21	2 21.6	18.1
46976 1998 SE_{140}	14.6	X	247.12815	346.00655	359.16717	9.30240	0.1081305	0.24257713	2.5462604	21	4 11.8	18.4
46977 Krakow	13.4	X	274.30748	59.24996	24.52998	8.81996	0.2139849	0.21078065	2.7962901	21	9 13.9	17.1
46978 1998 SD_{145}	14.8	X	120.77069	289.71964	50.42900	4.23729	0.1280204	0.22701571	2.6613303	21	—	—
46979 1998 SL_{154}	15.1	X	241.66440	281.31264	180.80868	13.63855	0.1221294	0.21124441	2.7921960	21	9 5.6	19.1
46980 1998 SW_{156}	14.6	X	222.02856	351.01216	336.64432	6.27996	0.1430013	0.23852110	2.5750452	21	2 24.7	18.8
46981 1998 SQ_{160}	14.9	X	359.48581	281.99006	58.80188	4.28068	0.1006940	0.21271727	2.7792922	21	9 26.8	18.1
46982 1998 SP_{161}	14.8	X	301.99459	310.45506	192.07506	12.82338	0.1416280	0.22258713	2.6965140	21	—	—
46983 1998 SX_{161}	15.2	X	234.89334	243.96454	146.56283	3.99111	0.1747991	0.24619200	2.5212743	21	5 25.3	19.2
46984 1998 SU_{162}	15.2	X	53.10980	132.23118	258.89871	1.65356	0.0842173	0.22385613	2.6863137	21	—	—
46985 1998 SA_{163}	14.3	X	287.90379	336.70757	197.96473	5.74626	0.0944761	0.22532075	2.6746600	21	—	—
46986 1998 SR_{163}	16.0	X	197.07112	215.12691	159.77825	4.08209	0.2743450	0.23981513	2.5657736	21	4 2.4	20.6
46987 1998 SC_{167}	14.5	X	331.64534	286.89226	186.80456	26.37123	0.0803329	0.22464406	2.6800285	21	—	—
46988 1998 TJ_{5}	14.7	X	352.56872	275.97481	69.78285	5.64126	0.1113964	0.21103568	2.7940368	21	9 23.2	17.9
46989 1998 TO_{5}	14.3	X	101.17638	213.30303	211.51900	11.16023	0.1655202	0.23176971	2.6248124	21	2 18.9	17.8
46990 1998 TY_{6}	14.3	X	102.92147	223.48340	103.78442	8.75001	0.2330694	0.22344106	2.6896394	21	—	—
46991 1998 TU_{17}	16.8	X	189.70556	303.20186	83.35876	1.12387	0.1544672	0.24157585	2.5532913	21	4 8.4	20.7
46992 1998 TZ_{17}	12.4	X	308.96476	176.88929	342.61224	13.76741	0.0969029	0.22636171	2.6664539	21	—	—
46993 1998 TF_{18}	14.9	X	162.67524	217.35278	204.07457	4.52995	0.1921661	0.23955149	2.5676558	21	4 28.7	18.9
46994 1998 TE_{27}	14.8	X	346.26305	208.95897	205.05102	0.81565	0.1032242	0.21684502	2.7439092	21	12 11.9	18.1
46995 1998 TO_{28}	14.7	X	263.96137	278.02384	27.89059	10.35059	0.2431293	0.24154638	2.5534990	21	3 5.9	19.0
46996 1998 TR_{28}	14.4	X	120.60197	94.08843	248.05784	1.58379	0.0830610	0.22614642	2.6681459	21	—	—
46997 1998 TL_{29}	14.4	X	168.21960	72.27384	221.21838	9.40723	0.1250414	0.18304583	3.0720586	21	—	—
46998 1998 TM_{30}	15.2	X	164.27353	155.33662	222.55308	2.62703	0.2170550	0.23571987	2.5954057	21	3 8.1	19.4
46999 1998 TA_{32}	14.4	X	235.94044	1.74893	279.21807	2.87845	0.0554932	0.23267506	2.6179991	21	1 15.7	18.3
47000 1998 TH_{32}	14.6	X	289.24326	213.00406	218.74075	11.92715	0.1280368	0.21215532	2.7841979	21	9 26.9	18.2
47001 1998 TA_{35}	14.8	X	346.32464	9.31358	46.87983	4.11716	0.0810234	0.21793744	2.7347323	21	12 13.3	18.0
47002 Harlingten	15.3	X	343.41349	11.99644	0.57398	2.33451	0.2089141	0.25692316	2.4505706	21	10 24.2	16.9
47003 1998 UF_{7}	14.3	X	151.06745	181.24010	186.26259	15.04863	0.1217967	0.23053362	2.6341866	21	2 1.3	18.4
47004 1998 UZ_{7}	15.6	X	95.40839	224.54468	204.85770	13.15858	0.2696871	0.23083850	2.6318667	21	3 6.1	19.2
47005 Chengmaolan	15.0	X	63.92322	78.25964	272.10639	1.76586	0.2050317	0.22163448	2.7042354	21	—	—
47006 1998 UL_{10}	15.5	X	209.28388	89.50694	220.79702	10.96880	0.1764345	0.23434826	2.6055229	21	1 21.2	20.0
47007 1998 UL_{16}	15.1	X	224.03447	267.00423	69.10157	5.04776	0.2724193	0.23911528	2.5707776	21	3 8.2	19.7
47008 1998 UW_{16}	14.8	X	162.21705	206.30186	188.50943	31.37004	0.2188789	0.23630573	2.5911142	21	3 27.8	18.9
47009 1998 UY_{16}	14.7	X	185.30956	231.03148	149.62535	17.97548	0.2796417	0.23809272	2.5781329	21	4 4.4	19.5
47010 1998 UD_{20}	14.4	X	73.98816	210.65025	130.42799	5.26495	0.1908556	0.17691152	3.1426690	21	—	—
47011 1998 UQ_{23}	15.2	X	106.09793	210.74860	182.60876	11.27578	0.0771555	0.23138252	2.6277398	21	1 5.4	18.8
47012 1998 UZ_{26}	15.1	X	240.81512	190.32715	157.01401	4.80791	0.2709853	0.24265968	2.5456829	21	4 1.1	19.5
47013 1998 UZ_{27}	13.8	X	248.35743	108.19656	140.04304	6.20165	0.0901593	0.22925564	2.6439670	21	—	—
47014 1998 UJ_{40}	13.6	X	336.16959	324.67256	234.17551	11.20296	0.1135497	0.23402895	2.6078924	21	1 21.7	17.1
47015 1998 VW	14.5	X	75.37952	17.06578	56.67921	13.71383	0.2851498	0.22914760	2.6447980	21	2 22.2	17.5
47016 1998 VU_{3}	14.9	X	46.54219	117.65058	56.05595	2.37087	0.1624560	0.19244239	2.9712251	21	4 30.7	18.2
47017 1998 VE_{4}	14.2	X	206.64508	191.60547	213.09888	3.98884	0.1267168	0.24100093	2.5573504	21	5 17.8	18.0
47018 1998 VT_{4}	15.3	X	47.58171	321.50802	252.88272	1.05119	0.0543500	0.19954034	2.9003400	21	6 13.2	19.1
47019 1998 VM_{5}	14.6	X	198.91582	344.25222	22.01393	7.71702	0.2044189	0.23822439	2.5771828	21	3 24.6	19.0
47020 1998 VP_{9}	14.6	X	31.61456	102.63048	280.06747	3.26498	0.0947719	0.21989063	2.7185139	21	—	—
47021 1998 VR_{12}	14.9	X	35.72416	302.84473	115.83181	2.45558	0.1525094	0.22366177	2.6878697	21	—	—
47022 1998 VK_{14}	13.8	X	8.93416	227.09596	26.74725	15.36351	0.0403935	0.24453959	2.5326194	21	6 3.2	17.2
47023 1998 VZ_{16}	15.4	X	285.69928	335.15847	89.13228	4.38246	0.1257327	0.21052821	2.7985250	21	9 17.1	18.9
47024 1998 VV_{19}	14.0	X	271.09487	62.93208	186.72097	11.98976	0.1220070	0.23300701	2.6155120	21	1 8.8	18.1
47025 1998 VT_{20}	15.3	X	10.54566	285.29840	62.65146	3.68585	0.1884424	0.21417891	2.7666332	21	11 3.0	18.1
47026 1998 VS_{21}	14.4	X	185.60480	329.69503	291.31605	3.39717	0.0329929	0.22285170	2.6943794	21	—	—
47027 1998 VX_{29}	15.0	X	143.03209	140.71237	267.76729	5.10959	0.2907243	0.23488661	2.6015402	21	3 31.3	19.4
47028 1998 VG_{31}	14.6	X	196.61224	321.96173	8.99530	6.06722	0.0786338	0.23278613	2.6171663	21	2 6.0	18.4
47029 1998 VO_{31}	13.4	X	99.07236	102.49063	301.12127	20.88450	0.0767325	0.17916619	3.1162479	21	1 21.8	17.7
47030 1998 VG_{32}	14.8	X	83.37005	13.04443	80.87676	4.18269	0.1549769	0.27481322	2.3430288	21	2 27.6	17.1
47031 1998 VX_{38}	14.7	X	147.21658	311.66799	107.05708	4.51134	0.2284665	0.23590377	2.5940567	21	4 16.1	18.9
47032 1998 VW_{52}	14.6	X	163.76170	227.49620	148.19097	9.11405	0.1892829	0.23346454	2.6120938	21	3 5.5	18.8
47033 1998 VW_{53}	14.6	X	36.25032	75.40115	297.20660	8.86703	0.0429623	0.21868838	2.7284683	21	12 23.4	18.2
47034 1998 VP_{54}	13.9	X	317.57952	228.06378	263.45322	14.75819	0.0289525	0.17857383	3.1231355	21	—	—
47035 1998 WS	12.8	X	72.69788	94.68931	8.96525	27.49610	0.3948524	0.22782619	2.6550148	21	4 7.8	15.8
47036 1998 WP_{1}	14.0	X	136.58134	337.30044	91.25065	10.90336	0.0825346	0.19020885	2.9944397	21	4 11.3	18.6
47037 1998 WM_{2}	14.8	X	15.71860	323.06745	186.90430	24.20845	0.2162666	0.27090826	2.3654906	21	—	—
47038 Majoni	14.6	X	298.36470	248.29555	210.62300	10.13672	0.2535979	0.21409222	2.7673800	21	11 4.4	17.2
47039 1998 WA_{3}	13.9	X	96.52790	299.63277	124.23463	17.12415	0.1918901	0.18071333	3.0984364	21	3 3.8	18.3
47040 1998 WB_{3}	13.4	X	338.04774	22.19867	103.79965	2.84695	0.1682067	0.17173219	3.2055427	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47041 1998 WO_3	13.2	X	133.82374	133.67108	271.22146	8.63998	0.0291804	0.18536502	3.0463808	21	2 22.7	17.7
47042 1998 WP_3	14.1	X	193.28628	329.39102	107.61182	3.27306	0.0650156	0.19648994	2.9302803	21	6 16.9	18.3
47043 1998 WX_3	13.8	X	114.33529	286.66561	72.48220	13.58058	0.3059506	0.22758288	2.6569068	21	1 9.2	17.5
47044 Mcpainter	14.8	X	139.64736	27.62580	19.03446	13.01072	0.1595732	0.23481808	2.6020464	21	3 19.7	18.7
47045 Seandaniel	14.5	X	311.20118	301.42134	103.06014	4.84858	0.0968867	0.21037776	2.7998591	21	10 4.1	17.9
47046 1998 WM_9	14.6	X	191.29379	7.79791	51.06855	9.30063	0.1578366	0.24181746	2.5515903	21	5 19.6	18.6
47047 1998 WX_{12}	14.0	X	1.56638	61.52967	317.97084	3.75557	0.1049957	0.21441032	2.7646422	21	11 18.9	17.3
47048 1998 WW_{18}	13.8	X	95.27737	79.21940	241.74932	6.38937	0.0657767	0.21834613	2.7313187	21	12 31.9	17.9
47049 1998 WT_{19}	13.3	X	180.05411	185.96149	290.75120	13.27151	0.1117421	0.23817924	2.5775085	21	7 22.2	17.3
47050 1998 WN_{20}	13.2	X	75.94025	336.59882	214.40840	4.57189	0.1563030	0.19829116	2.9125081	21	7 6.9	17.1
47051 1998 XZ	15.3	X	14.41821	181.53387	215.83534	2.44777	0.1022284	0.21803853	2.7338869	21	—	—
47052 1998 XE_1	15.0	X	137.94486	300.05179	84.29898	3.23941	0.0975271	0.23143395	2.6273505	21	2 8.5	18.6
47053 1998 XH_1	14.1	X	147.12535	60.49148	110.73639	1.98557	0.1035871	0.20402834	2.8576501	21	8 26.9	18.4
47054 1998 XX_1	14.4	X	93.19139	210.86940	67.08530	10.19134	0.1288634	0.21401375	2.7680564	21	11 14.5	18.5
47055 1998 XH_5	12.6	X	346.15273	0.69279	112.08990	12.63164	0.0557386	0.17476779	3.1683157	21	—	—
47056 1998 XP_7	13.9	X	273.70782	315.27717	234.28293	12.62554	0.0851466	0.17866760	3.1220428	21	—	—
47057 1998 XM_{12}	14.2	X	156.89776	85.87781	265.78589	10.75467	0.2424559	0.23048695	2.6345422	21	1 30.1	18.6
47058 1998 XC_{15}	14.4	X	344.67480	168.35702	233.40364	8.34408	0.1519953	0.21388047	2.7692062	21	11 25.2	17.2
47059 1998 XX_{20}	13.7	X	348.92228	61.95725	282.56550	12.10742	0.1948709	0.20460236	2.8523027	21	9 4.3	16.7
47060 1998 XX_{33}	14.9	X	14.79247	356.64250	70.13406	2.95131	0.2169430	0.21967236	2.7203144	21	—	—
47061 1998 XZ_{43}	13.2	X	210.94688	32.23598	68.73213	13.59908	0.0822492	0.20133206	2.8831070	21	8 9.8	17.7
47062 1998 XH_{52}	13.8	X	74.97376	101.43186	304.93499	12.76862	0.1643607	0.17939766	3.1135669	21	1 5.1	17.7
47063 1998 XX_{52}	13.5	X	298.81312	253.04017	93.48016	3.28317	0.0922941	0.19839420	2.9114996	21	6 25.1	17.0
47064 1998 XT_{53}	14.5	X	65.79461	310.28072	54.92697	10.29488	0.1238613	0.21743141	2.7389737	21	—	—
47065 1998 XC_{55}	14.1	X	274.22750	296.37632	83.07781	3.28647	0.0162667	0.20076029	2.8885785	21	7 17.2	17.9
47066 1998 XN_{57}	14.2	X	95.24325	241.86899	144.03878	2.84050	0.2114386	0.22522730	2.6753998	21	1 2.8	17.3
47067 1998 XB_{62}	15.7	X	143.09392	124.90204	191.03365	1.66631	0.3000301	0.22659676	2.6646096	21	—	—
47068 1998 XJ_{62}	14.4	X	342.10370	189.47135	229.00729	18.33484	0.1835142	0.21711789	2.7416098	21	12 15.3	17.3
47069 1998 XC_{73}	13.4	X	103.25193	154.01667	333.59860	13.83526	0.1559457	0.19067939	2.9895114	21	5 15.9	18.1
47070 1998 XF_{77}	14.6	X	29.87650	268.54522	143.95099	13.43479	0.1613895	0.21882597	2.7273245	21	—	—
47071 1998 XO_{77}	14.0	X	125.95883	296.98041	98.23487	13.50267	0.1649603	0.23081314	2.6320594	21	2 20.1	17.9
47072 1998 XM_{79}	13.9	X	207.58699	296.88930	183.59241	13.03682	0.0688231	0.20426213	2.8554692	21	8 25.5	18.2
47073 1998 XP_{95}	13.2	X	219.73675	316.15612	138.65891	11.81633	0.1308357	0.20086327	2.8875911	21	8 2.9	17.7
47074 1998 XV_{95}	13.7	X	128.76940	244.85516	195.74183	6.25308	0.0891187	0.18891775	3.0080672	21	4 12.9	18.1
47075 1998 YB	13.6	X	307.22991	27.73188	86.28391	0.16345	0.1348095	0.16985788	3.2290809	21	12 12.9	17.3
47076 1998 YV	14.0	X	20.34779	265.42649	239.81232	0.66300	0.1279692	0.18147741	3.0897333	21	2 4.9	17.7
47077 Yuji	13.3	X	296.55852	316.67513	194.23347	4.29617	0.0506714	0.17411973	3.1761723	21	—	—
47078 1998 YS_2	13.0	X	71.11370	252.11523	121.71579	15.87337	0.0403458	0.16983194	3.2294097	21	—	—
47079 1998 YA_3	14.3	X	31.94335	197.79032	182.99909	1.46787	0.0554385	0.21583186	2.7524895	21	12 28.7	18.0
47080 1998 YA_7	13.9	X	182.05790	323.45203	94.12688	11.61913	0.1650748	0.19622712	2.9328962	21	5 15.3	18.9
47081 1998 YV_9	14.9	X	112.68601	184.99078	230.22497	1.49573	0.2084882	0.22799152	2.6537311	21	3 3.5	18.6
47082 1998 YA_{15}	14.1	X	272.23666	197.11666	88.63915	9.98233	0.0550928	0.19127830	2.9832679	21	3 15.8	18.5
47083 1998 YG_{22}	13.7	X	321.12762	163.25167	260.61450	5.22925	0.0635171	0.20978579	2.8051236	21	11 12.7	17.1
47084 1999 AQ	14.3	X	178.05451	289.59656	124.24044	11.84969	0.1113116	0.19214074	2.9743341	21	5 7.6	19.1
47085 1999 AW_2	14.7	X	93.85488	337.27108	54.72822	1.43159	0.1775587	0.17923256	3.1154786	21	1 15.5	18.9
47086 Shinseiko	13.6	X	290.27211	211.79843	250.42650	14.43616	0.1986036	0.21064664	2.7974759	21	10 29.5	17.0
47087 1999 AY_3	14.7	X	229.42184	224.01037	345.01000	8.06002	0.0819917	0.25590465	2.4570685	21	—	—
47088 1999 AB_7	14.2	X	108.90606	337.61762	136.56255	11.53171	0.0514734	0.18767370	3.0213459	21	4 30.7	18.6
47089 1999 AC_7	15.2	X	350.73420	358.41851	140.37035	7.56375	0.0786585	0.26369385	2.4084412	21	—	—
47090 1999 AJ_7	14.8	X	228.48653	318.67063	298.36621	12.52691	0.1362702	0.26177265	2.4202109	21	—	—
47091 1999 AP_9	13.8	X	355.32860	87.28203	191.02851	1.58315	0.0375039	0.19535098	2.9416590	21	6 22.0	17.7
47092 1999 AB_{10}	14.2	X	8.69723	292.28901	284.93073	10.72913	0.0271344	0.23131845	2.6282249	21	4 11.7	17.8
47093 1999 AF_{21}	15.3	X	26.17461	314.91535	214.65100	1.95369	0.1042947	0.27107363	2.3645284	21	2 27.1	17.5
47094 1999 AW_{21}	15.0	X	88.01302	70.45791	147.56800	8.76797	0.0211062	0.28372856	2.2936862	21	8 11.5	17.8
47095 1999 AQ_{25}	14.0	X	20.53569	330.47267	138.59286	2.26537	0.1754748	0.17510427	3.1642556	21	—	—
47096 1999 AX_{25}	12.9	X	61.71169	104.53525	302.72769	18.37711	0.1236072	0.17547620	3.1597828	21	—	—
47097 1999 AE_{26}	13.9	X	224.90901	163.69571	41.42902	3.78398	0.0446190	0.17144574	3.2091124	21	12 27.1	18.5
47098 1999 AM_{28}	15.2	X	197.96377	220.10145	54.65153	2.93529	0.0471646	0.22758151	2.6569175	21	—	—
47099 1999 AO_{37}	14.0	X	7.73164	201.34730	273.14010	13.43358	0.2178931	0.22430941	2.6826934	21	—	—
47100 1999 BB_{10}	14.7	X	225.92322	353.64947	324.94060	5.97980	0.0936144	0.26960560	2.3731041	21	2 13.9	18.2
47101 1999 BP_{12}	14.4	X	111.47775	154.00121	6.25515	6.04598	0.0158606	0.28149823	2.3057857	21	6 20.8	17.3
47102 1999 BT_{12}	13.8	X	105.58792	159.06121	237.29276	4.41844	0.1655881	0.17853976	3.1235329	21	2 1.2	18.2
47103 1999 BQ_{28}	14.6	X	85.93819	18.25577	6.07732	0.92436	0.1779869	0.17481402	3.1677572	21	—	—
47104 1999 CD_{18}	12.8	X	312.70803	98.08142	32.05909	10.99496	0.1308601	0.17107475	3.2137501	21	—	—
47105 1999 CJ_{18}	13.1	X	180.42929	347.01885	74.60240	11.21748	0.0932311	0.19138603	2.9821482	21	5 16.3	17.6
47106 1999 CU_{20}	13.9	X	315.32570	336.56711	325.19608	13.99624	0.1135634	0.23506558	2.6002196	21	5 7.9	17.4
47107 1999 CB_{22}	13.6	X	144.69613	37.45305	68.22720	12.46598	0.1663409	0.19157198	2.9802182	21	6 5.9	18.3
47108 1999 CM_{37}	13.8	X	59.69993	355.49867	103.16591	3.21608	0.1508352	0.17913723	3.1165839	21	2 14.1	17.6
47109 1999 CQ_{37}	13.8	X	122.06048	57.89060	339.08149	11.27533	0.0390058	0.17800037	3.1298398	21	2 7.9	18.2
47110 1999 CK_{44}	14.5	X	321.06298	40.97477	42.40775	8.44601	0.2002574	0.21010300	2.8022995	21	12 4.1	17.1
47111 1999 CP_{48}	14.0	X	63.03163	342.44884	101.86539	2.88666	0.2068058	0.17821205	3.1273610	21	2 8.1	17.5
47112 1999 CZ_{54}	13.0	X	268.35611	332.60566	102.59226	6.89825	0.0874125	0.15541893	3.4261006	21	9 8.9	17.9
47113 1999 CD_{57}	13.7	X	64.64227	112.31840	2.30829	2.07814	0.2381525	0.18091186	3.0961692	21	3 25.7	17.4
47114 1999 CP_{61}	12.8	X	224.58849	321.65035	161.60121	10.08035	0.1099001	0.15849638	3.3816072	21	9 12.6	18.0
47115 1999 CH_{62}	13.2	X	109.86722	180.32227	204.03664	10.25785	0.0280726	0.17597118	3.1538547	21	1 4.7	17.8
47116 1999 CL_{64}	13.5	X	165.73420	265.35531	177.41507	11.84013	0.1079799	0.19073539	2.9889262	21	5 28.2	18.3
47117 1999 CE_{72}	13.8	X	8.09058	234.94219	243.84252	6.62398	0.1516341	0.17468920	3.1692659	21	—	—
47118 1999 CP_{72}	14.1	X	288.55262	100.95565	197.59340	11.97343	0.1668569	0.22851915	2.6496447	21	3 25.4	18.0
47119 1999 CM_{81}	13.6	X	130.04159	246.20419	187.77373	12.93531	0.2157956	0.18490236	3.0514605	21	4 21.1	18.5
47120 1999 CP_{84}	13.6	X	313.89732	297.54005	353.48510	14.73809	0.1277360	0.23450514	2.6043607	21	4 18.3	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47121 1999 CG_{85}	14.6	X	170.30723	278.10788	107.46891	6.93720	0.1224647	0.27452531	2.3446668	21	3 16.9	18.1
47122 1999 CZ_{88}	14.2	X	90.30395	54.85726	9.57150	2.93481	0.2401684	0.22549828	2.6732561	21	2 20.9	17.3
47123 1999 CS_{91}	14.1	X	49.48349	49.63147	335.88949	3.95186	0.1115124	0.16932855	3.2358068	21	—	—
47124 1999 CS_{99}	13.4	X	318.02907	181.41942	131.09516	11.84064	0.1442548	0.18945262	3.0024029	21	6 3.2	17.4
47125 1999 CM_{100}	14.0	X	12.81200	0.01436	93.14879	2.52005	0.2026756	0.17270673	3.1934728	21	—	—
47126 1999 CH_{101}	14.1	X	150.69835	280.10009	153.26148	10.63331	0.1067209	0.18558967	3.0439220	21	5 2.9	18.9
47127 1999 CJ_{103}	13.4	X	10.99721	253.77163	276.34650	14.57257	0.1677245	0.18045247	3.1014218	21	2 13.2	17.2
47128 1999 CZ_{115}	13.3	X	46.14212	199.73390	193.11639	6.92802	0.1082170	0.16854741	3.2457969	21	—	—
47129 1999 CR_{118}	14.0	X	205.33619	49.16593	12.01292	10.02046	0.1095030	0.19188545	2.9769716	21	6 6.8	18.8
47130 1999 CT_{127}	14.0	X	274.00154	145.08913	94.23838	13.54731	0.0797212	0.21834195	2.7313536	21	1 7.8	17.9
47131 1999 CA_{133}	14.2	X	4.48965	285.79421	155.08834	1.06470	0.1671693	0.17151143	3.2082928	21	—	—
47132 1999 CD_{154}	13.5	X	5.26148	127.84276	341.82462	11.54884	0.1437726	0.17167166	3.2062962	21	—	—
47133 1999 DH_{5}	13.9	X	251.61518	214.99279	237.51516	13.32197	0.1485362	0.24549864	2.5260193	21	8 29.9	17.7
47134 1999 DB_{6}	14.0	X	193.45199	221.38357	251.79532	12.98270	0.1368346	0.23967402	2.5667806	21	7 27.4	18.2
47135 1999 EX_{2}	15.7	X	268.33802	260.04731	158.77840	23.81263	0.0784115	0.37422785	1.9071228	21	9 4.3	16.9
47136 1999 EA_{3}	13.0	X	343.34739	123.73415	6.22684	14.86200	0.0704156	0.16943773	3.2344167	21	—	—
47137 1999 FJ_{22}	13.4	X	36.73321	126.39047	314.92811	8.25276	0.0997385	0.17301039	3.1897349	21	—	—
47138 1999 FS_{35}	13.6	X	354.72767	272.04458	169.23621	23.42597	0.1517509	0.16863760	3.2446394	21	—	—
47139 1999 GN_{9}	12.7	X	73.77999	98.11616	350.72101	23.13962	0.1581892	0.17591801	3.1544902	21	2 28.4	16.7
47140 1999 GL_{37}	13.6	X	224.62607	34.03275	31.90487	10.40558	0.1004599	0.19201359	2.9756469	21	7 6.3	18.2
47141 1999 HB_{3}	15.0	X	104.64676	68.21665	232.08193	19.51459	0.0584003	0.37626772	1.9002237	21	—	—
47142 1999 LQ_{2}	16.2	X	56.68029	146.65447	227.98537	18.99535	0.0726186	0.37838066	1.8931430	21	—	—
47143 1999 LL_{31}	14.6	X	332.33250	265.35793	143.60064	24.01438	0.1116435	0.36943602	1.9235784	21	12 28.8	16.6
47144 Faulkes	14.7	X	227.28398	293.17392	48.84223	6.29755	0.1243065	0.29519826	2.2338818	21	3 16.7	18.0
47145 1999 RN_{11}	15.6	X	105.32216	296.60425	154.62914	25.84808	0.1335414	0.38721038	1.8642524	21	3 4.6	16.6
47146 1999 RZ_{18}	14.4	X	30.04710	126.84459	172.53522	9.22710	0.0992220	0.18012542	3.1051747	21	9 13.3	18.2
47147 1999 RC_{24}	16.2	X	292.47921	219.00467	134.54763	4.80020	0.1607514	0.30776643	2.1726439	21	6 11.9	18.6
47148 1999 RN_{25}	15.7	X	313.33074	324.53794	7.85210	6.86091	0.1098769	0.30778769	2.1725438	21	6 23.0	17.9
47149 1999 RX_{34}	15.0	X	55.59970	233.60729	82.24946	2.01389	0.1824651	0.31702855	2.1301187	21	12 13.1	17.5
47150 1999 RN_{35}	15.6	X	77.90128	187.13161	182.31749	6.47419	0.1311809	0.28227117	2.3015745	21	—	—
47151 1999 RV_{88}	15.2	X	10.38634	140.09520	325.35399	3.87750	0.1306369	0.28407531	2.2918194	21	—	—
47152 1999 RB_{92}	16.1	X	295.53893	39.88839	352.86451	4.32007	0.0648164	0.31189073	2.1534481	21	9 5.1	18.0
47153 1999 RD_{132}	15.2	X	342.56940	45.10744	191.13041	7.46502	0.1662975	0.25871267	2.4392571	21	3 13.2	17.8
47154 1999 RE_{141}	15.3	X	344.15038	8.71826	343.81338	3.41850	0.1085718	0.22388968	2.6860453	21	9 15.8	18.1
47155 1999 RB_{159}	15.8	X	230.40200	201.17191	141.09110	4.46282	0.1190037	0.25460035	2.4654529	21	3 23.3	19.5
47156 1999 RE_{160}	16.2	X	184.94925	322.75376	95.51359	5.28034	0.1180149	0.30207521	2.1998479	21	5 10.9	19.3
47157 1999 RG_{188}	14.5	X	331.27513	324.75017	152.67106	11.47885	0.0558624	0.19244169	2.9712323	21	—	—
47158 1999 RR_{247}	15.7	X	90.92875	179.75766	140.95335	8.35514	0.1519092	0.27933442	2.3176779	21	—	—
47159 1999 SJ	15.6	X	73.12722	130.02184	169.49171	2.21489	0.2106088	0.27446440	2.3450136	21	12 6.8	19.0
47160 1999 SU_{17}	14.7	X	76.03055	206.75502	83.80587	7.17227	0.2908071	0.23132154	2.6282015	21	11 30.4	19.0
47161 1999 TH_{1}	15.6	X	9.88993	290.44396	211.12097	4.69600	0.0782786	0.28734823	2.2743835	21	—	—
47162 Chicomendez	15.2	X	3.68253	165.73931	36.62941	6.46661	0.1042123	0.29680761	2.2257994	21	3 6.0	17.4
47163 1999 TP_{11}	14.8	X	147.52791	331.42285	70.95413	7.31371	0.0949169	0.29171002	2.2516549	21	3 8.7	17.8
47164 Ticino	14.3	X	191.28314	125.36346	201.48630	10.56191	0.2018314	0.19912545	2.9043673	21	1 31.0	19.4
47165 1999 TM_{14}	16.0	X	199.99103	220.66417	173.56583	2.18703	0.1694953	0.29736722	2.2230061	21	4 23.9	19.4
47166 1999 TT_{18}	15.9	X	249.62174	231.93826	29.24271	8.72287	0.1704635	0.28898633	2.2657806	21	—	—
47167 1999 TP_{27}	14.4	X	259.29108	62.45895	24.76554	2.84588	0.0318318	0.21977408	2.7194750	21	9 24.4	17.9
47168 1999 TE_{30}	15.5	X	51.16558	113.15315	353.13747	3.31252	0.1207135	0.28864473	2.2675679	21	1 6.1	17.3
47169 1999 TH_{32}	15.3	X	54.36316	109.59018	4.04644	5.39314	0.0894259	0.28921402	2.2645912	21	1 23.9	17.5
47170 1999 TE_{33}	16.0	X	123.60277	176.49171	348.30624	2.72388	0.0525443	0.30587509	2.1815909	21	7 21.2	18.6
47171 Lempo	4.8	X	9.25244	294.49915	97.03473	8.42154	0.2277622	0.00396231	39.5521936	21	11 12.0	19.7
47172 1999 TM_{48}	16.6	X	119.49221	38.30463	140.15435	1.95037	0.0649466	0.30751116	2.1738461	21	8 5.6	19.0
47173 1999 TJ_{49}	16.0	X	303.52562	176.55641	43.57481	3.87541	0.0809581	0.29139039	2.2533011	21	1 2.5	18.9
47174 1999 TC_{95}	15.2	X	348.72537	187.38775	79.10341	7.66543	0.1233810	0.30435332	2.1888568	21	5 13.9	17.0
47175 1999 TP_{98}	14.7	X	148.67755	250.45107	60.08140	8.30235	0.1989099	0.28474542	2.2882223	21	—	—
47176 1999 TK_{105}	15.4	X	312.39088	206.53264	346.29998	4.73673	0.0745191	0.28586500	2.2822439	21	—	—
47177 1999 TU_{112}	15.9	X	108.76941	240.07025	273.11001	4.91040	0.0692408	0.30314469	2.1946709	21	6 14.4	18.5
47178 1999 TK_{113}	13.6	X	13.62491	215.25325	1.72496	30.07202	0.1363570	0.20995974	2.8035741	21	4 12.3	17.1
47179 1999 TM_{117}	15.4	X	244.12445	237.05970	354.59080	10.40758	0.0759855	0.28562770	2.2835078	21	—	—
47180 1999 TV_{119}	15.8	X	168.87131	123.91714	326.39003	2.45336	0.0840145	0.30158035	2.2022537	21	6 2.9	18.8
47181 1999 TB_{123}	16.1	X	219.44621	19.22581	2.17956	4.94215	0.1835988	0.29999094	2.2100255	21	4 22.9	19.6
47182 1999 TL_{124}	15.7	X	49.96591	242.68593	165.35095	4.48201	0.0840402	0.28114229	2.3077314	21	—	—
47183 1999 TC_{127}	15.8	X	82.70982	88.09966	143.88257	4.03572	0.1034241	0.31026328	2.1609720	21	9 9.9	18.3
47184 1999 TX_{127}	15.5	X	285.21237	107.06547	231.93994	0.48368	0.0138573	0.25909430	2.4368613	21	6 5.9	18.3
47185 1999 TC_{146}	15.4	X	179.77873	157.21688	354.15989	8.85317	0.1820410	0.26436008	2.4043931	21	9 6.6	19.2
47186 1999 TC_{147}	16.2	X	36.63065	196.06045	44.20685	6.11672	0.0661665	0.30574949	2.1821883	21	7 3.6	18.4
47187 1999 TL_{154}	15.5	X	42.66879	286.70728	193.87464	5.10507	0.0544804	0.28851758	2.2682341	21	1 11.6	18.0
47188 1999 TU_{155}	15.6	X	340.78519	223.93347	80.02685	3.74208	0.1536368	0.30639942	2.1791013	21	6 25.4	16.8
47189 1999 TT_{166}	15.7	X	71.54621	313.33314	231.40416	5.95518	0.1398119	0.30081583	2.2059835	21	6 17.9	17.9
47190 1999 TA_{171}	15.5	X	45.45792	270.72378	195.09006	6.32030	0.0506218	0.28740252	2.2740971	21	—	—
47191 1999 TK_{172}	16.6	X	169.55950	352.75668	70.71565	3.01910	0.1747361	0.29656967	2.2269898	21	5 3.6	20.0
47192 1999 TT_{176}	15.6	X	204.94439	210.18596	2.44647	3.70056	0.0888545	0.27523680	2.3406243	21	12 28.9	18.7
47193 1999 TJ_{178}	16.3	X	283.47985	312.32856	316.83353	4.71135	0.1391111	0.29517544	2.2339969	21	2 4.8	19.5
47194 1999 TK_{178}	15.7	X	281.94525	258.91118	325.84083	5.25845	0.1111935	0.28803161	2.2707846	21	—	—
47195 1999 TG_{179}	16.1	X	56.89352	189.09559	320.95406	2.61551	0.1884799	0.29247223	2.2477411	21	4 1.2	17.7
47196 1999 TZ_{180}	15.7	X	259.21830	192.66845	194.19928	4.14284	0.1134351	0.30315923	2.1946008	21	6 21.3	18.4
47197 1999 TZ_{193}	16.2	X	224.13773	339.37984	343.67953	7.52042	0.1032984	0.29278245	2.2461531	21	2 15.5	19.2
47198 1999 TL_{199}	16.3	X	198.73515	28.01798	289.11951	5.79657	0.1432630	0.28947762	2.2632163	21	1 13.5	19.7
47199 1999 TY_{204}	15.7	X	8.48226	321.59541	4.24975	4.07506	0.2356648	0.31174614	2.1541139	21	10 24.8	17.0
47200 1999 TB_{205}	15.6	X	325.72589	271.08919	256.66010	1.96808	0.1084055	0.28343065	2.2952932	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47201 1999 TJ_{205}	14.7	X	231.97170	249.65060	14.81305	5.55411	0.0936058	0.28279051	2.2987558	21	—	—
47202 1999 TD_{212}	16.1	X	47.47431	342.79447	231.89936	5.13154	0.0929444	0.30219252	2.1992786	21	6 14.9	18.2
47203 1999 TM_{219}	16.2	X	80.10673	119.76246	342.82510	7.77410	0.0855573	0.29177184	2.2513368	21	2 19.6	18.4
47204 1999 TO_{221}	15.3	X	153.19702	108.81895	144.80685	7.08182	0.1900489	0.27787062	2.3258104	21	12 19.7	19.2
47205 1999 TQ_{234}	15.5	X	3.01592	47.29044	96.51872	4.02445	0.1743058	0.28593837	2.2818535	21	—	—
47206 1999 TU_{243}	16.2	X	179.73408	258.29051	17.47259	7.43991	0.1165379	0.28265151	2.2995093	21	—	—
47207 1999 TB_{248}	15.9	X	247.90575	146.63864	196.54679	6.30855	0.1031895	0.29763984	2.2216484	21	4 7.6	18.7
47208 1999 TL_{253}	16.0	X	157.29032	220.85173	11.82353	6.19636	0.0351803	0.27218816	2.3580693	21	11 30.5	19.2
47209 1999 TM_{257}	16.3	X	132.23927	250.19266	155.46114	3.91146	0.0643462	0.29205280	2.2498927	21	2 12.0	19.0
47210 1999 TB_{273}	15.6	X	236.54134	278.11180	354.04310	6.45789	0.1202905	0.28822155	2.2697869	21	—	—
47211 1999 TX_{290}	15.5	X	259.63946	189.70273	120.05205	4.83895	0.1939660	0.29575703	2.2310673	21	3 1.5	18.8
47212 1999 TN_{291}	15.3	X	288.54849	104.36688	161.90184	5.37064	0.1813752	0.29228195	2.2487166	21	2 1.6	18.6
47213 1999 TC_{293}	15.3	X	20.00863	260.50954	317.16403	3.96847	0.1217688	0.29814071	2.2191595	21	4 25.1	17.2
47214 1999 TD_{293}	15.3	X	281.51221	347.41787	237.30956	9.66502	0.1464621	0.28656249	2.2785391	21	—	—
47215 1999 TZ_{319}	14.2	X	149.20770	243.71759	340.93214	12.63051	0.2165143	0.22747357	2.6577579	21	10 31.1	19.0
47216 1999 UX_{7}	15.1	X	144.27010	173.61330	49.56143	7.01313	0.0643449	0.26828945	2.3808589	21	11 3.3	18.2
47217 1999 UF_{18}	16.1	X	59.93700	40.26828	138.15573	2.30014	0.1022676	0.29953762	2.2122547	21	5 12.8	18.1
47218 1999 UN_{37}	16.0	X	355.14837	131.90429	29.97247	4.38733	0.0442180	0.28968655	2.2621279	21	—	—
47219 1999 UU_{41}	12.9	X	330.22785	353.64152	263.94649	13.86051	0.0735741	0.24328896	2.5412913	21	4 3.3	16.4
47220 1999 UJ_{46}	16.0	X	308.21690	163.68155	297.96666	5.05177	0.1338053	0.27288050	2.3540791	21	12 29.1	18.1
47221 1999 VM_{4}	15.5	X	131.28707	217.13556	56.46452	7.88343	0.1021687	0.27671645	2.3322730	21	12 24.6	18.9
47222 1999 VR_{8}	15.2	X	190.73223	292.70791	87.14566	7.18270	0.1241479	0.29308235	2.2446206	21	3 29.8	18.5
47223 1999 VW_{10}	13.9	X	66.14462	68.83415	113.11734	8.44954	0.1288918	0.29440354	2.2379001	21	6 4.1	16.2
47224 1999 VG_{11}	14.4	X	155.43591	156.71810	70.84848	7.13735	0.0718888	0.26970088	2.3725451	21	11 21.8	17.8
47225 1999 VJ_{12}	16.0	X	270.33750	350.65810	348.44897	4.44102	0.2349510	0.30100280	2.2050699	21	4 11.8	19.3
47226 1999 VE_{19}	14.4	X	156.42046	67.04472	57.20243	6.62437	0.0470061	0.30116597	2.2042733	21	7 5.1	17.1
47227 1999 VS_{24}	15.3	X	265.94716	60.24494	40.95380	2.89370	0.1401199	0.26442790	2.4039819	21	10 11.3	18.2
47228 1999 VP_{26}	15.9	X	35.61784	25.19634	53.07556	4.33861	0.1153700	0.27980406	2.3150837	21	—	—
47229 1999 VT_{27}	15.2	X	354.75916	91.26636	26.82722	7.39432	0.0486928	0.28170645	2.3046493	21	—	—
47230 1999 VT_{28}	16.0	X	156.31070	336.82246	47.16427	4.20519	0.1299467	0.29022179	2.2593458	21	2 24.9	19.1
47231 1999 VJ_{35}	15.5	X	105.61904	186.17093	224.63810	4.76743	0.1515333	0.28578742	2.2826569	21	1 25.8	18.1
47232 1999 VQ_{36}	15.6	X	120.94796	284.53911	61.61605	7.38506	0.1771066	0.28098504	2.3085923	21	—	—
47233 1999 VR_{38}	15.7	X	243.97568	170.19972	148.02508	1.02850	0.1934393	0.29413538	2.2392601	21	2 24.8	19.3
47234 1999 VP_{43}	15.5	X	149.02096	5.80923	19.15152	3.56850	0.0221139	0.29146607	2.2529111	21	2 1.7	18.2
47235 1999 VX_{43}	14.8	X	81.96198	64.42789	33.83624	6.34759	0.1674707	0.29001397	2.2604250	21	3 3.2	16.9
47236 1999 VU_{48}	14.4	X	15.17182	33.14116	17.70691	7.24576	0.1017731	0.27509581	2.3414240	21	—	—
47237 1999 VP_{49}	14.6	X	71.61181	183.88464	32.24879	9.73885	0.1914410	0.25758717	2.4463573	21	8 17.3	17.9
47238 1999 VB_{50}	14.3	X	358.49387	34.64206	33.87157	7.39597	0.0881145	0.27486177	2.3427530	21	—	—
47239 1999 VN_{50}	14.9	X	27.73167	114.98462	39.75709	6.20633	0.1213680	0.24194423	2.5506990	21	2 19.2	17.6
47240 1999 VR_{50}	15.1	X	315.22690	218.64444	280.17110	2.10236	0.1119016	0.27665805	2.3326013	21	—	—
47241 1999 VS_{50}	15.2	X	244.44388	85.75033	17.03768	2.77855	0.1288649	0.26303474	2.4124629	21	9 15.5	18.2
47242 1999 VY_{50}	15.1	X	204.95153	203.80285	222.75542	5.21337	0.1192752	0.30021633	2.2089193	21	6 12.0	18.2
47243 1999 VY_{51}	15.9	X	338.81589	80.26793	24.10449	3.93571	0.0874053	0.27642189	2.3339296	21	—	—
47244 1999 VA_{53}	15.4	X	349.98172	207.55805	217.24342	1.48970	0.1816898	0.27078922	2.3661837	21	—	—
47245 1999 VX_{53}	15.9	X	187.37827	194.18356	33.27875	4.98717	0.0760634	0.27553479	2.3389364	21	12 28.6	19.1
47246 1999 VN_{54}	15.3	X	260.10115	230.20031	39.34776	7.51001	0.1326452	0.29119948	2.2542858	21	1 14.4	18.7
47247 1999 VQ_{56}	16.0	X	200.17635	230.32588	47.81808	6.48505	0.1624768	0.28493027	2.2872325	21	—	—
47248 1999 VK_{57}	15.8	X	273.09827	150.76543	44.64828	4.92339	0.1059846	0.28129246	2.3069100	21	—	—
47249 1999 VY_{57}	14.9	X	221.70546	142.92488	56.85568	3.91283	0.1184216	0.27342544	2.3509502	21	12 28.1	17.9
47250 1999 VW_{58}	15.3	X	326.51033	53.08870	50.99229	1.40882	0.1721668	0.27406405	2.3472968	21	—	—
47251 1999 VS_{60}	15.2	X	313.98954	100.99596	61.66549	2.99352	0.0682813	0.28174109	2.3044604	21	—	—
47252 1999 VJ_{65}	15.7	X	278.10456	303.39819	219.10900	2.82313	0.1043886	0.27596570	2.3365011	21	—	—
47253 1999 VN_{65}	15.7	X	201.49817	69.37829	53.71895	1.97430	0.1412765	0.26015930	2.4302063	21	8 23.5	19.4
47254 1999 VO_{67}	15.6	X	238.65538	336.53774	220.58588	6.56683	0.0556086	0.27593788	2.3366581	21	—	—
47255 1999 VA_{70}	15.8	X	99.73552	208.79288	51.15596	3.30376	0.1371073	0.26852828	2.3794469	21	11 5.8	19.2
47256 1999 VA_{72}	14.8	X	150.09313	46.82580	105.24499	3.15366	0.1196698	0.20555760	2.8434593	21	8 6.6	19.1
47257 1999 VA_{79}	15.1	X	153.80771	318.99547	233.61651	3.77127	0.1459242	0.26545975	2.3977483	21	10 3.2	18.7
47258 1999 VS_{80}	15.7	X	162.16464	115.76965	193.00916	7.13320	0.0716969	0.28157831	2.3053485	21	—	—
47259 1999 VJ_{81}	14.9	X	65.88652	244.28875	117.68657	5.13958	0.1157813	0.22946287	2.6423749	21	—	—
47260 1999 VR_{88}	16.1	X	295.22390	121.54216	209.96510	5.72534	0.1442723	0.30343669	2.1932627	21	5 16.6	18.4
47261 1999 VH_{90}	15.4	X	73.91534	84.67469	74.02457	1.26258	0.1237022	0.29725788	2.2235512	21	5 9.6	17.4
47262 1999 VF_{91}	16.1	X	272.83005	263.54834	32.49785	6.23009	0.1240902	0.29713692	2.2241546	21	3 4.5	19.2
47263 1999 VJ_{92}	15.9	X	28.45007	171.25835	25.61217	4.37969	0.0503983	0.29848357	2.2174598	21	4 10.1	18.0
47264 1999 VV_{93}	15.6	X	299.41119	308.56991	213.80596	3.50329	0.1420424	0.28064680	2.3104469	21	—	—
47265 1999 VT_{97}	16.0	X	251.13888	43.03285	213.50271	6.56736	0.1919989	0.28809476	2.2704528	21	—	—
47266 1999 VY_{98}	15.4	X	143.41185	357.75624	211.15941	1.90928	0.1399848	0.26603051	2.3943176	21	10 15.0	18.9
47267 1999 VU_{112}	15.7	X	236.68454	180.11802	285.32505	0.55812	0.1478069	0.26091037	2.4255403	21	9 5.8	18.9
47268 1999 VJ_{119}	16.0	X	139.20136	205.60035	5.83721	5.16535	0.1746314	0.26770039	2.3843502	21	10 14.5	19.7
47269 1999 VH_{135}	14.5	X	16.35746	343.73560	159.39091	5.78076	0.0972978	0.28681135	2.2772209	21	—	—
47270 1999 VE_{138}	15.3	X	46.81086	1.25183	61.31100	1.92253	0.0849059	0.18782787	3.0196923	21	—	—
47271 1999 VY_{143}	14.7	X	126.41997	213.44835	26.45793	7.24191	0.0991448	0.26875484	2.3781095	21	11 4.6	18.1
47272 1999 VF_{144}	15.6	X	81.24341	183.53049	265.46785	5.44705	0.0425586	0.28858053	2.2679041	21	1 25.9	18.3
47273 1999 VE_{145}	15.7	X	276.83392	169.19976	357.54099	6.48074	0.1275277	0.27602869	2.3361456	21	—	—
47274 1999 VJ_{147}	15.9	X	278.59648	1.51253	214.25848	3.34703	0.0697076	0.23682357	2.5873356	21	—	—
47275 1999 VZ_{147}	16.1	X	254.07716	41.84547	267.01598	2.49199	0.0501477	0.29549646	2.2323787	21	3 2.5	18.9
47276 1999 VN_{151}	15.0	X	21.90717	244.42763	42.12514	4.97238	0.1090976	0.21483160	2.7610267	21	8 20.9	18.2
47277 1999 VL_{154}	16.3	X	198.44425	237.59433	45.94374	3.35960	0.1951799	0.28524490	2.2855504	21	—	—
47278 1999 VU_{157}	15.6	X	67.34219	180.33335	287.80443	1.23408	0.0436398	0.29084575	2.2561133	21	2 1.7	18.0
47279 1999 VS_{160}	15.3	X	254.54839	222.62467	10.26683	5.41336	0.0972163	0.28547737	2.2843094	21	—	—
47280 1999 VJ_{161}	15.4	X	94.39366	258.26293	3.11142	2.19549	0.1936153	0.26747464	2.3856916	21	11 6.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47281 1999 VS_{162}	15.6	X	130.02536	122.50744	32.43266	7.74424	0.1119589	0.25599928	2.4564630	21	7 22.1	19.3
47282 1999 VG_{167}	15.8	X	104.16960	24.48943	12.20586	3.41519	0.1025762	0.28435019	2.2903422	21	—	—
47283 1999 VF_{173}	15.3	X	152.81206	188.64770	62.91232	7.67662	0.0781335	0.27358061	2.3500612	21	12 19.3	18.6
47284 1999 VO_{173}	15.4	X	76.78657	208.10878	332.13606	3.23117	0.1431638	0.25156762	2.4852279	21	6 21.5	18.4
47285 1999 VU_{173}	15.1	X	210.76488	188.15346	89.07905	6.74643	0.0866618	0.28283752	2.2985010	21	—	—
47286 1999 VH_{176}	15.9	X	29.51961	280.28448	190.62511	5.81648	0.1360241	0.28301679	2.2975303	21	—	—
47287 1999 VR_{177}	15.1	X	277.40459	61.31360	128.06139	5.27179	0.0605942	0.28131467	2.3067886	21	—	—
47288 1999 VQ_{178}	15.4	X	343.80737	37.73390	101.99639	7.51596	0.0504892	0.28277728	2.2988275	21	—	—
47289 1999 VD_{188}	15.7	X	224.46835	154.97767	82.67489	6.19940	0.0775462	0.27935730	2.3175513	21	—	—
47290 1999 VS_{188}	15.4	X	159.36038	235.76501	81.74411	7.56932	0.1219007	0.28258479	2.2998712	21	—	—
47291 1999 VG_{195}	15.0	X	107.81915	120.39324	59.47921	5.27553	0.1468851	0.25795221	2.4440488	21	8 2.8	18.5
47292 1999 VO_{203}	15.7	X	318.83112	326.95646	331.16693	8.05015	0.1908459	0.30297560	2.1954874	21	4 19.6	18.1
47293 Masamitsu	15.8	X	48.62680	254.04788	67.26644	3.29090	0.2319965	0.26910772	2.3760301	21	12 10.1	19.1
47294 Blanský les	14.8	X	76.47996	335.74756	79.69835	4.90857	0.1255431	0.28264497	2.2995448	21	—	—
47295 1999 WV_{1}	15.8	X	298.64396	323.46260	134.21929	2.66999	0.1637488	0.27011389	2.3701260	21	11 30.9	17.9
47296 1999 WD_{2}	15.5	X	318.25717	156.61028	69.54382	4.43734	0.0217356	0.24385257	2.5373741	21	2 19.2	18.8
47297 1999 WN_{2}	14.9	X	77.29918	266.32201	79.17437	3.14326	0.0585599	0.27416495	2.3467208	21	—	—
47298 1999 WX_{2}	16.4	X	259.18373	230.24198	124.37652	1.42896	0.1806253	0.30002629	2.2098519	21	4 28.8	19.4
47299 1999 WJ_{3}	15.1	X	292.30328	165.77378	282.71710	6.67114	0.0233721	0.26749808	2.3855523	21	11 16.8	18.0
47300 1999 WN_{4}	15.2	X	62.60071	107.53034	299.02633	3.96866	0.2154816	0.27970199	2.3156470	21	—	—
47301 1999 WA_{6}	15.4	X	178.81075	346.43006	307.29207	4.61650	0.1126190	0.28344393	2.2952215	21	—	—
47302 1999 WG_{6}	15.0	X	236.27238	19.56669	215.51993	5.96010	0.0743422	0.28022053	2.3127894	21	—	—
47303 1999 WU_{7}	13.5	X	179.17797	156.21420	109.89567	14.28293	0.1311066	0.22646040	2.6656791	21	—	—
47304 1999 WH_{8}	14.9	X	28.92307	231.02875	320.46730	4.42058	0.1320543	0.24530367	2.5273576	21	4 10.1	17.4
47305 1999 WL_{24}	15.5	X	96.66883	86.47592	136.31421	2.77819	0.1400749	0.25978107	2.4325646	21	9 15.1	18.8
47306 1999 XB_{4}	14.9	X	212.63751	74.43941	94.96886	5.97632	0.0393727	0.26849345	2.3796527	21	11 17.9	17.9
47307 1999 XR_{4}	15.5	X	309.40400	4.39083	131.46596	2.52927	0.1683053	0.27496129	2.3421876	21	—	—
47308 1999 XP_{5}	16.3	X	250.77200	287.71935	101.00093	1.84646	0.1731959	0.30268396	2.1968974	21	6 5.8	19.1
47309 1999 XV_{6}	14.9	X	263.08130	317.57647	347.07518	1.49194	0.1271567	0.29370883	2.2414276	21	3 2.4	18.0
47310 1999 XG_{7}	15.1	X	9.77489	159.84926	36.29654	5.33312	0.1104504	0.24458353	2.5323161	21	3 17.1	17.7
47311 1999 XN_{7}	14.9	X	265.89527	346.04654	140.70335	2.71959	0.1687556	0.26751632	2.3854438	21	11 12.5	17.4
47312 1999 XG_{8}	15.3	X	145.28622	144.49550	241.39848	4.78359	0.1710264	0.28701204	2.2761592	21	2 15.9	18.4
47313 1999 XH_{11}	15.3	X	82.08660	139.84110	298.13644	4.91523	0.1267724	0.28638470	2.2794820	21	1 22.9	17.4
47314 1999 XK_{11}	15.3	X	286.92514	247.52202	260.29192	11.04114	0.0862273	0.27518222	2.3409338	21	—	—
47315 1999 XW_{11}	15.4	X	172.98630	32.05741	319.56703	5.74874	0.2040500	0.29013706	2.2597856	21	2 5.5	18.6
47316 1999 XM_{12}	13.7	X	32.96711	300.49462	255.94324	12.58560	0.1473922	0.24310880	2.5425466	21	4 26.4	16.3
47317 1999 XL_{13}	15.6	X	107.90023	238.26914	173.95627	5.98617	0.0647221	0.28643608	2.2792095	21	1 17.9	18.2
47318 1999 XO_{13}	14.1	X	16.60722	313.54373	264.72353	13.27803	0.1193038	0.24415988	2.5352445	21	4 24.8	17.1
47319 1999 XF_{14}	14.8	X	285.09959	247.51996	249.23570	10.77168	0.1485944	0.22299452	2.6932288	21	12 18.7	17.9
47320 1999 XA_{15}	13.9	X	42.73430	217.51989	77.63902	22.43377	0.0898267	0.26373535	2.4081886	21	10 19.4	17.4
47321 1999 XS_{19}	15.7	X	219.56345	144.75855	257.92421	2.78789	0.1218360	0.30207792	2.1998347	21	5 25.6	18.9
47322 1999 XS_{21}	15.3	X	126.57120	106.60315	189.39080	9.24871	0.0972112	0.27461078	2.3441802	21	—	—
47323 1999 XD_{22}	14.6	X	279.01624	353.47943	141.47184	9.80918	0.1029811	0.21958584	2.7210290	21	12 13.2	18.1
47324 1999 XN_{22}	15.5	X	290.41419	18.35553	207.32195	5.67885	0.0138775	0.28697023	2.2763803	21	1 1.9	18.4
47325 1999 XQ_{23}	15.8	X	209.42930	274.98235	95.92293	2.06889	0.1018109	0.29614156	2.2291355	21	4 3.2	18.9
47326 1999 XP_{25}	14.7	X	119.42679	149.27716	75.46750	7.86903	0.0534895	0.26423183	2.4051710	21	10 9.5	18.0
47327 1999 XZ_{25}	15.0	X	230.11076	261.05540	78.97788	8.81967	0.1833405	0.29514530	2.2341490	21	3 17.0	18.7
47328 1999 XZ_{27}	15.2	X	212.52107	121.37470	12.68783	2.37160	0.1628505	0.26336725	2.4104320	21	9 16.3	18.7
47329 1999 XF_{30}	14.9	X	355.94763	3.81556	107.96457	7.50223	0.0753316	0.27775019	2.3264826	21	—	—
47330 1999 XQ_{31}	14.1	X	82.86589	155.22580	124.44915	9.80920	0.1085985	0.21470191	2.7621385	21	11 6.0	18.2
47331 1999 XB_{32}	15.3	X	117.97657	183.56093	247.62639	2.90939	0.1325486	0.23889604	2.5723501	21	3 17.4	18.7
47332 1999 XC_{32}	15.0	X	16.38239	156.68903	260.24794	5.39494	0.1052492	0.27005937	2.3704450	21	—	—
47333 1999 XU_{32}	15.4	X	285.18315	182.97083	241.39781	1.99262	0.1692703	0.25995277	2.4314933	21	9 11.2	18.2
47334 1999 XX_{32}	13.3	X	122.71363	75.69533	289.33891	13.83963	0.1189045	0.23111893	2.6297373	21	—	—
47335 1999 XB_{33}	15.0	X	249.65462	340.54864	112.09720	3.85396	0.2093415	0.25807178	2.4432939	21	8 27.9	18.3
47336 1999 XT_{34}	14.3	X	15.71871	191.70441	298.86342	9.96434	0.1075420	0.23134547	2.6280203	21	—	—
47337 1999 XB_{36}	14.6	X	37.88045	95.13163	319.18100	6.12996	0.0939027	0.27480907	2.3430525	21	—	—
47338 1999 XG_{36}	14.4	X	204.85126	143.40648	51.80486	7.09190	0.0598368	0.26638627	2.3921854	21	12 7.0	17.5
47339 1999 XH_{38}	14.7	X	353.32413	136.74343	80.63712	14.43130	0.0913377	0.24469614	2.5315391	21	3 27.8	18.0
47340 1999 XK_{39}	15.8	X	183.95202	223.01949	157.22386	3.37377	0.1211123	0.29207602	2.2497734	21	3 19.6	18.8
47341 1999 XX_{41}	16.0	X	204.66930	282.60650	32.99191	3.09917	0.1586722	0.28930183	2.2641330	21	1 18.9	19.4
47342 1999 XL_{43}	15.4	X	61.43251	193.79510	284.84246	1.68931	0.1062274	0.24232350	2.5480368	21	2 23.0	18.3
47343 1999 XL_{45}	15.3	X	258.69526	250.25932	68.20566	6.40430	0.2663348	0.29770901	2.2213043	21	3 8.7	19.0
47344 1999 XM_{45}	14.8	X	124.99058	127.93443	67.64240	3.30347	0.1241980	0.25986820	2.4320208	21	9 9.8	18.4
47345 1999 XZ_{47}	15.5	X	139.94742	354.71033	73.96143	4.08867	0.0994628	0.29218949	2.2491909	21	4 2.8	18.4
47346 1999 XJ_{48}	15.1	X	343.31520	100.17188	81.45852	6.53394	0.1052680	0.23961111	2.5672298	21	1 13.3	18.3
47347 1999 XU_{49}	15.4	X	98.21825	5.97717	254.03114	5.35198	0.1193427	0.26602989	2.3943213	21	11 1.0	18.9
47348 1999 XJ_{50}	14.6	X	146.61749	109.88528	67.70711	9.45816	0.1990258	0.21253059	2.7809195	21	9 11.7	19.4
47349 1999 XD_{52}	16.0	X	338.08934	273.68553	57.33405	5.15877	0.1795873	0.30720476	2.1752913	21	8 8.9	17.3
47350 1999 XR_{52}	14.9	X	20.17964	224.59569	264.85431	3.97346	0.0856302	0.28326689	2.2961778	21	—	—
47351 1999 XO_{57}	15.2	X	294.40655	115.10962	84.17389	8.17117	0.0807829	0.23564590	2.5959488	21	—	—
47352 1999 XE_{58}	16.2	X	273.51494	121.46809	209.05771	2.07055	0.1719598	0.29865852	2.2165938	21	4 12.1	19.2
47353 1999 XB_{59}	15.5	X	147.26741	237.20545	59.49808	3.72367	0.1723325	0.27759748	2.3273357	21	—	—
47354 1999 XU_{59}	14.8	X	206.95152	2.38086	248.69842	5.32665	0.1333531	0.27744029	2.3282147	21	—	—
47355 1999 XG_{64}	15.7	X	209.89678	72.05596	79.94897	2.35896	0.1310744	0.26347063	2.4098013	21	10 10.6	19.2
47356 1999 XJ_{64}	16.1	X	194.83871	269.72979	76.36750	1.43151	0.1306472	0.28975238	2.2617853	21	2 15.3	19.2
47357 1999 XK_{64}	15.4	X	172.76459	96.21016	76.42900	7.40635	0.0277504	0.26265105	2.4148118	21	10 5.1	18.6
47358 1999 XX_{66}	14.4	X	341.71009	338.78753	254.80928	12.27173	0.1232042	0.24543999	2.5264217	21	3 11.1	17.6
47359 1999 XJ_{69}	16.0	X	210.93595	273.25297	142.25396	0.44513	0.1271930	0.29890017	2.2153989	21	6 2.9	19.2
47360 1999 XN_{70}	16.3	X	341.66661	264.42078	133.74609	2.16397	0.1244265	0.26799244	2.3826177	21	11 27.4	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47361 1999 XL_{74}	16.4	X	25.05009	313.04934	106.78796	3.40347	0.1847934	0.27556754	2.3387511	21	—	—
47362 1999 XG_{75}	15.3	X	307.19213	241.22924	110.34344	3.38867	0.1855120	0.25863564	2.4397414	21	6 29.7	17.8
47363 1999 XX_{75}	14.6	X	205.43776	358.31386	98.06225	5.39428	0.0581223	0.25582497	2.4575786	21	7 28.1	17.9
47364 1999 XH_{78}	15.0	X	290.33403	294.20741	261.58708	0.99131	0.1193410	0.23347033	2.6120506	21	—	—
47365 1999 XY_{82}	14.9	X	66.18434	355.99917	98.51027	9.13536	0.1623229	0.23736410	2.5834062	21	2 7.6	17.6
47366 1999 XO_{86}	15.5	X	4.87262	231.32093	189.77608	1.79888	0.1948388	0.27164041	2.3612382	21	—	—
47367 1999 XB_{87}	15.2	X	50.61082	258.46267	113.23652	5.67451	0.2194024	0.27219047	2.3580560	21	—	—
47368 1999 XZ_{87}	15.8	X	51.12132	236.90354	173.13047	1.56334	0.1617143	0.27695450	2.3309364	21	—	—
47369 1999 XA_{88}	13.9	X	207.78254	82.46370	112.82760	6.83887	0.0843631	0.26700767	2.3884724	21	12 9.1	17.1
47370 1999 XL_{88}	15.3	X	297.26665	282.35139	144.08192	2.44786	0.1703072	0.26382727	2.4076292	21	10 9.1	17.5
47371 1999 XJ_{90}	14.1	X	354.55335	85.13951	78.56769	2.75832	0.2834301	0.18697812	3.0288344	21	—	—
47372 1999 XW_{90}	15.4	X	256.32618	301.74829	99.13106	2.84134	0.0621451	0.25436009	2.4670052	21	7 15.7	18.4
47373 1999 XT_{91}	14.1	X	282.70308	345.30490	294.95735	14.14643	0.1511419	0.24042470	2.5614349	21	2 19.7	18.0
47374 1999 XX_{91}	14.6	X	245.01779	151.25498	90.66845	11.41890	0.1021082	0.23248449	2.6194296	21	—	—
47375 1999 XT_{94}	15.0	X	270.23601	27.03033	57.74912	1.61163	0.1668714	0.25994204	2.4315603	21	9 19.6	17.9
47376 1999 XW_{94}	13.6	X	80.34589	311.73582	22.15070	5.59623	0.0730279	0.21749321	2.7384549	21	—	—
47377 1999 XY_{94}	14.6	X	11.68026	213.15970	108.43050	14.57490	0.1947883	0.25851428	2.4405049	21	10 16.1	17.3
47378 1999 XN_{96}	15.2	X	55.35494	147.15846	268.46850	2.56055	0.1527431	0.27927274	2.3180191	21	—	—
47379 1999 XB_{97}	14.2	X	217.03949	257.94142	273.11596	5.70977	0.1269932	0.26626111	2.3929349	21	11 10.9	17.6
47380 1999 XC_{98}	14.0	X	54.44532	109.14091	77.17279	4.10926	0.1523675	0.24673324	2.5175857	21	5 26.6	16.4
47381 1999 XQ_{98}	14.9	X	76.39453	36.18558	40.54792	2.75972	0.1263757	0.23757318	2.5818902	21	1 26.1	17.7
47382 1999 XX_{98}	14.4	X	50.85266	174.66758	76.37586	7.37534	0.1057503	0.25542187	2.4601636	21	8 20.7	17.4
47383 1999 XG_{99}	15.6	X	116.80677	345.46969	72.13207	7.55290	0.1618987	0.28661878	2.2782407	21	2 28.4	18.4
47384 1999 XX_{99}	15.3	X	208.56376	288.09884	67.43421	3.98124	0.0986295	0.29038666	2.2584906	21	3 14.5	18.5
47385 1999 XA_{101}	14.4	X	50.40488	353.92330	88.30444	7.61351	0.1408944	0.27966574	2.3158470	21	—	—
47386 1999 XX_{101}	13.4	X	124.41395	285.53789	296.24257	6.11494	0.1054488	0.21230400	2.7828978	21	10 2.3	17.8
47387 1999 XF_{103}	15.4	X	147.64716	251.83205	82.33519	7.77878	0.1480070	0.27885110	2.3203552	21	—	—
47388 1999 XY_{103}	13.4	X	330.94039	115.19179	95.54313	14.26275	0.1423016	0.23580921	2.5947501	21	1 30.6	16.7
47389 1999 XK_{106}	15.0	X	18.14875	222.85726	271.82268	5.08979	0.0997912	0.28629073	2.2799808	21	—	—
47390 1999 XA_{107}	14.9	X	26.17121	333.35166	268.00221	4.51110	0.1208655	0.30198726	2.2002750	21	6 20.5	16.6
47391 1999 XL_{108}	15.5	X	311.72062	299.47200	192.88419	3.83470	0.0867715	0.27651194	2.3334229	21	—	—
47392 1999 XT_{109}	15.8	X	118.05965	316.93174	90.66043	5.09115	0.1934853	0.28786218	2.2716756	21	2 19.0	18.4
47393 1999 XX_{109}	15.9	X	358.95873	311.73415	152.65823	2.45765	0.1609644	0.27806898	2.3247041	21	—	—
47394 1999 XE_{110}	15.6	X	64.36039	232.86941	72.09719	4.58917	0.0982849	0.31469062	2.1406559	21	11 27.7	18.1
47395 1999 XM_{111}	14.8	X	280.83078	106.47956	348.20257	12.32565	0.2122756	0.26310540	2.4120310	21	10 8.1	17.5
47396 1999 XB_{115}	14.2	X	327.70502	217.17288	326.61093	13.21255	0.0919747	0.24007253	2.5639393	21	—	—
47397 1999 XS_{115}	15.0	X	213.29801	302.92617	344.61369	6.42689	0.1204900	0.28688938	2.2768080	21	—	—
47398 1999 XC_{116}	15.3	X	305.25836	100.15789	343.39400	6.53993	0.1090709	0.27028834	2.3691061	21	11 24.2	17.7
47399 1999 XK_{116}	15.0	X	249.24908	257.00114	267.41094	6.55163	0.0617811	0.27322866	2.3520789	21	12 26.7	17.7
47400 1999 XV_{116}	16.1	X	276.46642	345.00282	18.98658	4.73115	0.1727289	0.30404630	2.1903301	21	5 31.9	18.8
47401 1999 XG_{120}	15.2	X	106.15754	238.11898	28.04538	6.51071	0.1258116	0.26877260	2.3780048	21	11 18.2	18.7
47402 1999 XQ_{120}	15.9	X	212.73866	298.85789	32.95305	4.17048	0.1857809	0.29205763	2.2498679	21	2 16.7	19.4
47403 1999 XS_{121}	15.6	X	263.57603	238.13027	23.84814	2.82619	0.1747411	0.28714946	2.2754330	21	1 5.6	19.2
47404 1999 XU_{122}	15.7	X	293.34020	151.22800	334.21093	5.32483	0.0995937	0.27297653	2.3535270	21	—	—
47405 1999 XC_{125}	15.5	X	183.17454	325.53135	10.68643	5.30711	0.0929365	0.28750579	2.2735525	21	1 19.8	18.6
47406 1999 XV_{126}	15.6	X	299.11483	31.00429	37.72966	6.41170	0.0902358	0.26636179	2.3923319	21	10 25.8	18.0
47407 1999 XC_{129}	15.2	X	122.72070	211.22566	352.84307	6.02079	0.0861138	0.25989498	2.4318538	21	9 13.9	18.4
47408 1999 XH_{130}	16.0	X	52.57674	10.02359	20.11991	5.13769	0.1391412	0.27622393	2.3350446	21	—	—
47409 1999 XS_{132}	15.0	X	299.34613	144.45428	335.44456	6.92904	0.0696122	0.27027817	2.3691655	21	—	—
47410 1999 XE_{135}	15.2	X	271.87408	200.51141	139.23973	6.67218	0.2361591	0.29934675	2.2131950	21	4 18.6	18.5
47411 1999 XZ_{136}	16.1	X	145.46711	311.25330	107.41862	6.78049	0.1458668	0.29140487	2.2532265	21	4 3.1	19.3
47412 1999 XD_{140}	15.2	X	260.68314	75.74013	120.99112	3.27088	0.0715023	0.22662037	2.6644245	21	—	—
47413 1999 XR_{144}	15.2	X	127.14812	117.02336	306.60659	4.08792	0.1146316	0.28907278	2.2653288	21	3 8.9	17.9
47414 1999 XN_{147}	15.8	X	82.19297	168.36895	86.88424	0.75179	0.1347748	0.26384241	2.4075371	21	10 10.8	19.1
47415 1999 XD_{154}	14.4	X	184.99500	297.53061	185.54170	3.53286	0.0305890	0.21064705	2.7974723	21	8 5.8	18.3
47416 1999 XE_{160}	15.6	X	220.96816	240.16161	124.52302	5.43764	0.1658979	0.29366118	2.2416700	21	4 7.5	19.0
47417 1999 XL_{160}	14.4	X	155.72773	106.16068	126.32422	6.25906	0.0690766	0.26520003	2.3993135	21	11 28.7	17.8
47418 1999 XB_{165}	14.7	X	79.92460	78.09898	4.30223	4.49102	0.1721912	0.28142177	2.3062033	21	2 4.3	16.8
47419 1999 XT_{165}	14.8	X	334.26936	10.74648	92.66140	4.71817	0.1916261	0.22434455	2.6824134	21	—	—
47420 1999 XB_{166}	14.9	X	105.90472	59.25886	351.46885	8.95121	0.1042135	0.28670143	2.2778029	21	1 22.8	17.5
47421 1999 XN_{166}	15.2	X	54.92132	78.21137	347.97462	6.30213	0.0952859	0.28116724	2.3075949	21	—	—
47422 1999 XK_{168}	15.3	X	95.28849	343.56942	32.49660	7.20695	0.1178373	0.28104573	2.3082600	21	—	—
47423 1999 XR_{168}	15.4	X	317.18850	0.34885	346.14837	4.74822	0.1816465	0.30644583	2.1788813	21	7 13.4	17.1
47424 1999 XE_{169}	14.4	X	325.03987	152.39071	43.36229	5.41263	0.0616888	0.23728353	2.5839910	21	1 14.1	17.8
47425 1999 XW_{169}	14.8	X	266.59629	32.07031	57.44204	6.11560	0.0774082	0.26179651	2.4200638	21	10 7.7	17.7
47426 1999 XZ_{169}	15.1	X	25.77315	154.80240	34.67318	4.07775	0.0603120	0.24498042	2.5295803	21	4 3.5	18.0
47427 1999 XA_{172}	14.7	X	225.03094	63.77370	314.26623	6.59521	0.1143896	0.29459493	2.2369307	21	4 25.4	18.1
47428 1999 XK_{172}	15.5	X	120.42039	32.89370	352.28370	3.59664	0.1938349	0.28292090	2.2980494	21	1 22.4	18.1
47429 1999 XN_{172}	13.9	X	296.06843	96.69166	62.91930	7.40037	0.2281806	0.18000860	3.1065180	21	—	—
47430 1999 XK_{173}	14.7	X	181.63452	125.52072	341.57733	5.90086	0.1052193	0.25214428	2.4814372	21	7 13.5	18.5
47431 1999 XZ_{173}	14.4	X	93.06101	343.43703	7.57388	6.47412	0.1495586	0.27385675	2.3484812	21	—	—
47432 1999 XT_{175}	14.1	X	176.63605	100.28017	13.49214	6.86154	0.1080608	0.25169126	2.4844139	21	7 17.6	17.9
47433 1999 XB_{176}	14.6	X	242.11687	32.63610	63.11941	8.74288	0.0905353	0.21164863	2.7886397	21	9 8.5	18.7
47434 1999 XD_{176}	13.9	X	2.90256	101.64351	72.22623	9.46684	0.1225754	0.18949071	3.0020006	21	2 15.7	17.6
47435 1999 XK_{176}	14.0	X	295.48184	199.96509	307.78071	15.01980	0.2250839	0.22356593	2.6886378	21	—	—
47436 1999 XM_{176}	13.9	X	125.53253	328.69701	71.08401	10.07472	0.0696637	0.23633627	2.5908909	21	2 10.9	17.5
47437 1999 XR_{176}	14.5	X	41.23928	22.74848	350.06961	9.51820	0.2356084	0.27067059	2.3668751	21	—	—
47438 1999 XD_{177}	14.5	X	138.31104	62.10936	63.87842	6.57090	0.1004858	0.29351590	2.2424097	21	6 18.1	17.4
47439 1999 XB_{178}	14.4	X	291.61671	307.94684	321.30963	8.61398	0.1433773	0.24042763	2.5614141	21	2 21.1	18.0
47440 1999 XV_{181}	14.9	X	157.35040	347.07113	359.42953	6.95959	0.1994004	0.28642702	2.2792575	21	1 16.5	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47441 1999 XS_{192}	15.5	X	26.59501	93.73091	351.36095	6.87968	0.0789226	0.27755479	2.3275743	21	—	—
47442 1999 XG_{193}	15.5	X	273.28269	0.25118	42.68345	5.51171	0.1347089	0.30460549	2.1876486	21	8 3.9	18.0
47443 1999 XE_{196}	15.4	X	83.64092	342.59897	357.50837	4.83659	0.2665904	0.27444806	2.3451067	21	—	—
47444 1999 XA_{205}	14.3	X	262.54171	127.63981	21.78964	9.39643	0.1408697	0.22098639	2.7095200	21	11 29.8	17.9
47445 1999 XQ_{206}	14.3	X	197.92839	39.05549	328.80027	13.11449	0.2063615	0.24399742	2.5363697	21	3 19.1	18.7
47446 1999 XM_{211}	15.6	X	37.19684	73.67425	2.30219	8.34860	0.0707359	0.27848704	2.3223770	21	—	—
47447 1999 XW_{213}	16.0	X	149.67905	240.59781	142.19486	3.98287	0.1477786	0.28758005	2.2731611	21	2 16.3	18.8
47448 1999 XN_{214}	15.9	X	301.58245	56.09581	31.66299	3.00106	0.1389453	0.26809047	2.3820368	21	11 22.3	17.9
47449 1999 XM_{215}	15.4	X	164.93406	175.39569	191.59932	5.29413	0.1808966	0.28620842	2.2804179	21	2 14.1	18.9
47450 1999 XD_{218}	14.8	X	2.00959	231.05852	100.45541	7.42494	0.1091627	0.25870077	2.4393319	21	9 27.4	17.4
47451 1999 XR_{221}	15.7	X	242.06599	338.09752	49.13843	6.53671	0.1179445	0.30003996	2.2097848	21	5 29.9	18.6
47452 1999 XY_{221}	15.2	X	91.88521	241.96952	42.99743	6.51433	0.0924152	0.26715560	2.3875906	21	11 24.2	18.4
47453 1999 XB_{222}	15.4	X	328.83018	88.25794	326.46613	4.57235	0.0311030	0.26780445	2.3837325	21	11 23.3	18.2
47454 1999 XL_{222}	14.8	X	75.05729	354.76562	311.37623	5.77557	0.1334312	0.26697106	2.3886907	21	12 7.0	18.2
47455 1999 XK_{227}	15.9	X	282.04489	257.20658	94.14005	1.24338	0.2204425	0.25293177	2.4762840	21	5 17.9	19.1
47456 1999 XZ_{231}	14.0	X	38.90434	68.83818	1.77235	12.33015	0.1786897	0.27501886	2.3418607	21	—	—
47457 1999 XF_{234}	14.8	X	341.24198	33.27233	152.80580	8.04493	0.1628625	0.23937231	2.5689370	21	1 6.4	17.9
47458 1999 XR_{238}	14.1	X	162.87695	267.33116	101.01427	11.40596	0.1370457	0.23554646	2.5966794	21	2 21.9	18.1
47459 1999 XO_{241}	15.4	X	217.20606	0.26100	200.93988	5.78403	0.0413968	0.27199705	2.3591737	21	—	—
47460 1999 XQ_{241}	15.1	X	86.20075	357.21795	111.94395	5.32565	0.1114975	0.24368658	2.5385262	21	3 25.3	18.2
47461 1999 XG_{242}	14.1	X	31.09156	281.59348	46.98235	10.04689	0.1170501	0.26241476	2.4162612	21	11 8.2	16.9
47462 1999 XG_{256}	15.2	X	162.07643	144.07010	324.76763	6.78828	0.0664309	0.25399363	2.4693776	21	6 21.8	18.7
47463 1999 XE_{258}	14.7	X	319.65601	114.90598	359.90829	6.47572	0.1011915	0.27027551	2.3691810	21	—	—
47464 1999 YM_{3}	14.2	X	58.23516	354.66136	182.77055	21.88135	0.0474772	0.24115625	2.5562522	21	5 8.8	17.7
47465 1999 YZ_{4}	15.2	X	122.39621	292.16072	63.99525	3.86729	0.1460886	0.27866941	2.3213637	21	—	—
47466 Mayatoyoshima	14.9	X	29.68582	311.43630	164.54092	23.21512	0.2666386	0.28070114	2.3101487	21	—	—
47467 1999 YF_{13}	14.8	X	257.60220	57.70029	101.14192	7.68076	0.0455765	0.27222318	2.3578671	21	—	—
47468 1999 YS_{13}	14.9	X	13.90203	231.72949	139.81397	3.13340	0.2021702	0.26652705	2.3913429	21	12 26.1	17.4
47469 1999 YT_{20}	15.5	X	180.29709	173.38851	101.32828	2.65513	0.0246615	0.22607135	2.6687365	21	—	—
47470 2000 AF	15.7	X	126.63447	245.39996	168.68251	5.29182	0.1435930	0.28845000	2.2685883	21	2 28.9	18.4
47471 2000 AM	14.8	X	274.17342	182.06393	287.86619	2.90026	0.1655807	0.26412280	2.4058329	21	10 30.4	17.5
47472 2000 AN_{2}	14.5	X	41.85581	97.37394	333.37873	13.51439	0.1042902	0.22897157	2.6461533	21	—	—
47473 2000 AU_{2}	15.1	X	24.57466	331.86866	83.76067	3.41201	0.2058569	0.27321883	2.3521353	21	—	—
47474 2000 AH_{5}	14.9	X	28.23956	263.33740	282.65974	14.23715	0.1146975	0.24216795	2.5491278	21	3 24.8	18.1
47475 2000 AR_{7}	14.7	X	124.68866	14.06782	329.42588	6.67731	0.1329942	0.27889858	2.3200918	21	—	—
47476 2000 AJ_{8}	15.3	X	28.85275	308.42405	71.56020	7.75958	0.1097658	0.27035583	2.3687118	21	—	—
47477 2000 AV_{9}	14.9	X	318.33010	63.98681	61.47369	7.09561	0.0542197	0.27210318	2.3585602	21	—	—
47478 2000 AW_{10}	15.2	X	198.21630	344.94479	342.19926	4.56418	0.1497441	0.28559894	2.2836611	21	1 27.6	18.5
47479 2000 AH_{11}	15.6	X	307.28688	226.51351	273.52005	6.19584	0.0577638	0.27504713	2.3417003	21	—	—
47480 2000 AE_{12}	16.0	X	289.06371	69.02829	357.61202	2.88077	0.1076306	0.30952014	2.1644295	21	10 9.6	17.9
47481 2000 AR_{12}	15.0	X	35.44724	93.63709	65.81962	5.16650	0.0740064	0.24204301	2.5500049	21	3 10.8	17.9
47482 2000 AT_{13}	14.8	X	273.42022	312.02158	278.19067	12.77622	0.1301422	0.23509857	2.5999763	21	—	—
47483 2000 AJ_{17}	13.6	X	176.13609	162.23430	91.36985	14.83261	0.1397913	0.22502576	2.6769970	21	—	—
47484 2000 AC_{18}	15.1	X	245.88554	199.17412	282.01973	5.68669	0.0862863	0.26294938	2.4129850	21	10 15.4	18.2
47485 2000 AO_{22}	13.9	X	130.35030	147.51512	77.90214	10.23053	0.1043840	0.21469937	2.7621603	21	10 20.8	18.2
47486 2000 AG_{25}	16.3	X	270.69115	61.84724	10.61540	1.46068	0.1479425	0.26043631	2.4284828	21	9 5.5	19.0
47487 2000 AK_{30}	15.2	X	19.16225	309.64442	58.65955	2.13687	0.1998738	0.26731977	2.3866130	21	12 29.5	17.9
47488 2000 AZ_{32}	14.4	X	354.07373	137.54083	317.79755	6.91469	0.1177102	0.27254553	2.3560075	21	—	—
47489 2000 AY_{35}	15.4	X	228.94611	282.50940	62.54525	4.93447	0.2087120	0.29233370	2.2484512	21	3 19.6	19.0
47490 2000 AE_{37}	15.8	X	183.18110	5.34682	337.62995	1.24098	0.2295555	0.28568497	2.2832026	21	2 6.2	19.3
47491 2000 AE_{39}	15.1	X	27.03551	81.36083	321.32040	13.24147	0.0586041	0.22406227	2.6846658	21	—	—
47492 2000 AC_{41}	15.2	X	105.62000	335.20873	84.41410	5.62398	0.1617171	0.23688177	2.5869118	21	2 23.2	18.5
47493 2000 AV_{41}	15.0	X	171.85566	17.74504	340.80192	8.45950	0.1850200	0.28309725	2.2970950	21	2 13.8	18.5
47494 Gerhardangl	15.6	X	65.81040	201.13157	264.76178	1.38864	0.1452818	0.23703742	2.5857792	21	2 18.3	18.2
47495 2000 AD_{43}	13.8	X	9.11973	26.20957	116.75496	16.78192	0.1156870	0.23434193	2.6055698	21	1 1.1	16.8
47496 2000 AU_{43}	15.2	X	164.13132	257.92070	97.64781	2.09249	0.1669679	0.28341050	2.2954020	21	1 30.8	18.4
47497 2000 AE_{44}	15.6	X	99.42511	277.42319	47.41217	1.16805	0.2368964	0.27065198	2.3669835	21	—	—
47498 2000 AK_{45}	14.9	X	343.50774	246.73704	269.42251	5.78377	0.0624692	0.28007034	2.3136161	21	—	—
47499 2000 AH_{50}	15.0	X	265.83186	278.92201	127.20304	7.67899	0.1375210	0.25572872	2.4581953	21	7 24.1	18.3
47500 2000 AX_{50}	15.6	X	208.77042	331.60150	44.21622	4.28878	0.0885945	0.24394836	2.5367097	21	4 13.8	19.4
47501 2000 AN_{53}	14.7	X	230.62687	133.10035	106.10850	15.13904	0.0807475	0.22887120	2.6469270	21	—	—
47502 2000 AN_{54}	14.5	X	53.14228	108.27617	104.17027	13.37887	0.0373395	0.20175353	2.8790904	21	6 17.2	18.3
47503 2000 AQ_{54}	16.0	X	5.62210	310.22673	79.61117	2.28323	0.1953636	0.26783117	2.3835740	21	—	—
47504 2000 AJ_{56}	14.8	X	241.90541	77.55144	98.73907	3.36565	0.0719031	0.22075561	2.7114081	21	12 18.9	18.5
47505 2000 AB_{57}	14.9	X	56.87632	245.88712	111.66111	7.03654	0.0587947	0.22174609	2.7033279	21	—	—
47506 2000 AA_{58}	14.2	X	203.15433	111.58545	109.08770	5.91153	0.0150548	0.26782717	2.3835977	21	—	—
47507 2000 AM_{58}	15.2	X	355.25035	287.72592	106.14316	3.56124	0.2112471	0.26645887	2.3917508	21	12 27.4	17.3
47508 2000 AQ_{58}	14.2	X	198.58090	97.90686	108.75122	10.29253	0.0301642	0.21917944	2.7243914	21	12 10.3	18.1
47509 2000 AJ_{60}	15.5	X	94.33243	292.56913	106.54720	1.13027	0.2105090	0.27944539	2.3170643	21	1 2.6	17.5
47510 2000 AL_{60}	14.1	X	121.86791	116.42693	121.20577	10.04090	0.1102979	0.21171081	2.7880937	21	10 27.1	18.5
47511 2000 AN_{60}	13.8	X	248.71918	340.73881	307.21779	12.08294	0.1421527	0.18843418	3.0132113	21	2 7.3	18.5
47512 2000 AY_{60}	15.0	X	36.12778	62.79309	7.77406	1.84022	0.0645928	0.22779933	2.6552236	21	—	—
47513 2000 AS_{66}	14.9	X	334.12448	267.53001	117.97272	13.81976	0.1687235	0.26032335	2.4291852	21	10 30.8	17.3
47514 2000 AW_{66}	14.0	X	81.04567	205.15195	97.28072	10.26182	0.1462921	0.21468211	2.7623083	21	12 3.5	18.1
47515 2000 AB_{69}	15.8	X	105.14424	287.74194	103.06858	6.51998	0.1266112	0.28309924	2.2970842	21	—	—
47516 2000 AQ_{69}	13.7	X	282.62487	75.29372	96.32545	14.19522	0.1239874	0.22881428	2.6473659	21	—	—
47517 2000 AT_{71}	15.0	X	203.99652	158.25838	128.39480	4.08042	0.1618640	0.28243618	2.3006780	21	—	—
47518 2000 AU_{71}	15.7	X	301.36981	228.52289	103.87513	4.54219	0.1730889	0.30167183	2.2018085	21	5 22.9	18.1
47519 2000 AK_{79}	14.2	X	339.83115	213.25954	124.23585	7.98332	0.1509277	0.25859727	2.4399828	21	8 20.2	16.3
47520 2000 AO_{79}	15.2	X	33.42631	284.08180	140.25513	6.74454	0.0756056	0.27518435	2.3409217	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47521 2000 AS_{84}	14.8	X	35.06965	267.98653	268.54269	2.68195	0.0880723	0.19497077	2.9454821	21	4 6.4	18.3
47522 2000 AW_{84}	15.7	X	247.74940	313.60952	128.78339	3.57648	0.1491584	0.25765551	2.4459248	21	8 19.1	19.0
47523 2000 AB_{85}	15.2	X	94.74053	309.29039	136.08303	4.86906	0.1129154	0.28459108	2.2890496	21	2 23.7	17.6
47524 2000 AJ_{90}	15.0	X	306.96716	145.35050	284.49925	6.75271	0.0452270	0.21716364	2.7412247	21	10 31.7	18.7
47525 2000 AL_{90}	15.2	X	89.79548	317.37142	187.24810	2.98773	0.0648835	0.24409749	2.5356765	21	5 9.1	18.3
47526 2000 AM_{90}	14.9	X	1.21150	143.29144	208.28162	1.81567	0.2075972	0.26201794	2.4187002	21	11 3.6	16.7
47527 2000 AR_{90}	15.3	X	102.82868	213.94810	266.21300	3.22670	0.0888226	0.24276582	2.5449408	21	4 25.5	18.7
47528 2000 AE_{95}	15.5	X	316.64485	294.40263	127.99511	6.36396	0.0916133	0.26239543	2.4163799	21	11 16.9	18.1
47529 2000 AM_{96}	14.0	X	331.70909	34.25632	131.28241	15.82922	0.0313882	0.22870056	2.6482434	21	—	—
47530 2000 AO_{96}	13.4	X	96.40931	16.44784	333.19955	12.16713	0.1775290	0.22320199	2.6915596	21	—	—
47531 2000 AY_{96}	13.6	X	226.45069	49.79631	107.22320	10.04239	0.0966993	0.21385390	2.7694356	21	11 5.5	17.7
47532 2000 AF_{97}	13.6	X	271.38081	221.14726	345.33369	12.72521	0.1147146	0.22442655	2.6817599	21	—	—
47533 2000 AY_{97}	13.8	X	273.36932	121.21886	1.56717	8.93039	0.1010927	0.21569400	2.7536622	21	11 14.5	17.4
47534 2000 AD_{98}	13.7	X	280.30084	87.90898	82.46872	5.92196	0.1184040	0.17512633	3.1639899	21	—	—
47535 2000 AA_{99}	15.7	X	227.55618	329.63233	73.04469	2.97803	0.1398480	0.30231622	2.1986786	21	6 2.4	18.8
47536 2000 AB_{102}	15.0	X	200.69625	38.94841	97.40074	10.36724	0.1353814	0.26112563	2.4242071	21	9 13.6	18.8
47537 2000 AP_{108}	15.3	X	65.88032	226.61516	167.30175	5.74091	0.0322852	0.22916552	2.6446601	21	—	—
47538 2000 AR_{113}	14.3	X	84.82610	19.49451	125.77667	14.98584	0.1175896	0.24365589	2.5387393	21	5 16.4	17.8
47539 2000 AZ_{113}	13.9	X	246.43023	153.70917	135.43636	15.61084	0.1806304	0.23732420	2.5836958	21	1 29.8	18.1
47540 2000 AK_{115}	15.0	X	246.64129	334.62086	177.95545	4.89292	0.0972743	0.26521477	2.3992246	21	11 30.6	18.0
47541 2000 AX_{115}	15.0	X	157.08101	48.94764	146.36648	8.76635	0.0635842	0.25885760	2.4383466	21	10 14.1	18.5
47542 2000 AN_{118}	15.2	X	348.33412	218.90692	160.70123	7.22653	0.1175793	0.26301028	2.4126124	21	11 12.4	17.7
47543 2000 AP_{118}	15.3	X	243.27237	187.20281	239.44865	5.02461	0.0965810	0.25475434	2.4644593	21	7 27.8	18.7
47544 2000 AW_{118}	15.8	X	322.06171	172.54719	241.80028	3.29828	0.2079503	0.26483409	2.4015232	21	11 10.6	17.5
47545 2000 AZ_{118}	14.8	X	53.15817	321.97400	125.82430	22.34687	0.0244628	0.23241072	2.6199839	21	—	—
47546 2000 AN_{119}	15.1	X	320.76641	245.43419	172.94599	5.90449	0.1166801	0.26402820	2.4064075	21	11 17.6	17.4
47547 2000 AM_{121}	13.9	X	159.27125	351.36796	216.59193	2.13790	0.2364140	0.16595560	3.2795035	21	10 19.3	19.6
47548 2000 AO_{124}	15.1	X	45.81657	299.07739	150.80689	4.12301	0.1883162	0.23239654	2.6200904	21	—	—
47549 2000 AE_{126}	14.4	X	301.04216	326.28665	287.29067	14.43526	0.0933018	0.23689368	2.5868251	21	2 15.1	18.1
47550 2000 AS_{126}	14.3	X	136.17282	311.80683	278.81538	2.44122	0.0171882	0.21378027	2.7700714	21	10 23.8	18.0
47551 2000 AM_{128}	13.3	X	61.88873	91.97660	300.94874	14.87287	0.0356535	0.17877310	3.1208143	21	—	—
47552 2000 AR_{128}	13.3	X	290.46149	318.37748	311.55988	17.54957	0.2433583	0.18776053	3.0204143	21	2 14.3	18.1
47553 2000 AE_{129}	15.3	X	55.38065	238.34719	150.96831	2.65662	0.1968679	0.27306952	2.3529926	21	—	—
47554 2000 AN_{130}	14.5	X	295.13720	295.62640	239.19044	4.05462	0.1049950	0.18047003	3.1012206	21	—	—
47555 2000 AM_{136}	14.1	X	26.96830	55.36165	112.99808	12.67807	0.0993778	0.19091473	2.9870541	21	3 21.9	17.9
47556 2000 AL_{137}	13.1	X	270.67628	200.25751	20.13537	5.26866	0.1217423	0.17816792	3.1278773	21	—	—
47557 2000 AP_{137}	13.9	X	119.01720	187.64028	82.27756	5.52423	0.0301474	0.21256836	2.7805900	21	11 23.7	17.7
47558 2000 AU_{137}	14.0	X	292.98047	190.46527	342.51602	12.54735	0.1071387	0.22232098	2.6986657	21	—	—
47559 2000 AK_{143}	14.0	X	106.56490	47.94827	224.92189	7.24753	0.1875751	0.21418518	2.7665792	21	11 25.1	18.4
47560 2000 AD_{144}	13.9	X	301.00553	19.16269	149.96973	18.12469	0.1086505	0.17814290	3.1281702	21	—	—
47561 2000 AA_{147}	13.6	X	291.31870	328.80987	339.39274	12.91519	0.1512318	0.24337987	2.5406584	21	4 6.2	17.2
47562 2000 AZ_{148}	14.4	X	268.13837	12.10295	139.66414	11.31824	0.0523373	0.27135648	2.3628850	21	—	—
47563 2000 AW_{149}	14.4	X	158.06877	359.36676	168.26950	9.26300	0.0820907	0.20964188	2.8064072	21	9 1.5	18.7
47564 2000 AD_{150}	14.3	X	226.68322	353.30615	236.98066	13.26720	0.1395148	0.22693502	2.6619611	21	—	—
47565 2000 AJ_{150}	14.6	X	14.11952	100.62024	251.07947	12.26162	0.2033295	0.21943116	2.7223075	21	11 16.6	17.6
47566 2000 AU_{150}	14.8	X	344.42771	331.43383	152.88274	10.55842	0.1851872	0.27415297	2.3467892	21	—	—
47567 2000 AL_{154}	14.9	X	9.09869	343.52283	41.12244	6.21858	0.0423584	0.22021611	2.7158347	21	12 1.8	18.5
47568 2000 AW_{155}	15.6	X	193.22055	71.44909	264.46671	5.43574	0.2184188	0.28809659	2.2704432	21	2 3.1	19.4
47569 2000 AP_{159}	14.3	X	247.05346	142.68323	33.05606	5.35672	0.1255843	0.17567579	3.1573891	21	12 7.4	18.8
47570 2000 AM_{162}	14.5	X	357.06176	351.49968	124.83318	14.06782	0.1005262	0.22687838	2.6624041	21	—	—
47571 2000 AT_{162}	14.2	X	272.40965	326.14431	148.15043	9.19285	0.1060198	0.21390156	2.7690242	21	11 7.3	17.9
47572 2000 AK_{167}	15.4	X	121.14322	230.67772	162.51263	11.07758	0.1336720	0.28183586	2.3039438	21	1 22.6	18.3
47573 2000 AV_{170}	15.2	X	96.17959	220.15296	168.96881	5.84468	0.0377189	0.28051380	2.3111771	21	—	—
47574 2000 AF_{171}	14.8	X	203.94230	62.27149	120.31282	14.66253	0.1428403	0.22004177	2.7172689	21	11 10.4	19.3
47575 2000 AL_{172}	15.5	X	297.92063	283.48854	159.51162	7.28341	0.0701346	0.26651174	2.3914345	21	11 17.2	18.2
47576 2000 AW_{172}	17.3	X	199.00078	184.26003	215.78859	5.49317	0.3265728	0.29697701	2.2249529	21	4 30.3	21.3
47577 2000 AD_{173}	15.4	X	137.31221	165.98691	202.64655	6.90184	0.1322892	0.28370004	2.2938400	21	1 10.5	18.3
47578 2000 AT_{174}	15.2	X	192.71437	257.73058	227.13994	8.73885	0.1248075	0.25632838	2.4543599	21	8 12.7	19.2
47579 2000 AW_{174}	14.3	X	272.49612	318.16190	162.84524	6.66928	0.0615062	0.26695627	2.3887790	21	12 1.1	17.2
47580 2000 AQ_{175}	15.5	X	78.23071	159.98715	227.95178	7.60463	0.2672133	0.27929679	2.3178861	21	—	—
47581 2000 AN_{178}	15.4	X	294.11987	146.43774	197.83116	7.15869	0.2674348	0.30087520	2.2056933	21	5 14.1	18.2
47582 2000 AO_{179}	14.3	X	3.91169	27.81133	135.69551	14.08731	0.0940791	0.23562034	2.5961365	21	1 21.7	17.4
47583 2000 AW_{182}	14.8	X	353.58004	357.88654	145.42529	14.78701	0.0415407	0.23143506	2.6273420	21	—	—
47584 2000 AX_{182}	15.1	X	84.40279	207.74593	231.36090	7.37334	0.0769111	0.23574912	2.5951910	21	1 31.9	18.4
47585 2000 AA_{192}	15.2	X	354.05259	259.89618	176.44621	8.71748	0.2131813	0.27175545	2.3605718	21	—	—
47586 2000 AE_{193}	14.6	X	285.11481	2.44713	186.11425	13.60127	0.0270983	0.22870615	2.6482003	21	—	—
47587 2000 AU_{198}	14.9	X	121.12214	108.16899	282.03142	14.13743	0.1110134	0.23278017	2.6172109	21	1 24.4	18.5
47588 2000 AM_{201}	14.8	X	48.92297	286.18113	142.10055	23.30251	0.2960961	0.27872372	2.3210621	21	—	—
47589 2000 AY_{201}	14.9	X	78.95729	276.48270	140.17364	27.71669	0.0649033	0.23310469	2.6147814	21	—	—
47590 2000 AY_{202}	14.0	X	56.11309	216.89671	256.48408	12.38942	0.0953856	0.23280693	2.6170104	21	2 3.6	17.3
47591 2000 AD_{203}	14.3	X	59.87810	213.75626	265.33314	12.12432	0.1421173	0.23378603	2.6096986	21	2 20.5	17.4
47592 2000 AO_{203}	13.2	X	326.65058	150.62013	247.23011	9.11716	0.1292453	0.25671847	2.4518730	21	10 22.9	15.8
47593 2000 AF_{204}	14.0	X	307.47956	54.89076	92.17281	11.11287	0.1347022	0.22272769	2.6953794	21	—	—
47594 2000 AQ_{204}	13.5	X	200.39742	37.37083	201.23756	13.15874	0.1380028	0.22333828	2.6904645	21	—	—
47595 2000 AK_{207}	14.4	X	207.69552	144.67191	76.04058	0.27339	0.1152233	0.17428230	3.1741969	21	12 19.4	19.3
47596 2000 AA_{213}	16.1	X	78.28765	86.32305	219.23110	0.56889	0.1940755	0.26834098	2.3805541	21	12 16.4	19.6
47597 2000 AK_{214}	15.5	X	57.11354	240.18411	158.90892	1.86303	0.0612521	0.22670246	2.6637812	21	—	—
47598 2000 AR_{215}	15.4	X	54.49687	246.23832	111.03603	7.08166	0.0511190	0.22216516	2.6999274	21	12 28.7	19.1
47599 2000 AB_{216}	15.3	X	127.12873	237.84554	143.75996	12.28951	0.2089375	0.23290132	2.6163033	21	2 5.5	18.9
47600 2000 AF_{227}	13.7	X	287.93938	231.00461	319.57606	4.12342	0.1140608	0.17918851	3.1159893	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47601 2000 AQ_{227}	14.7	X	167.79741	289.86264	332.51008	3.65749	0.1195794	0.17200143	3.2021967	21	12 28.9	19.8
47602 2000 AC_{231}	14.6	X	91.30038	331.72086	142.97817	13.25575	0.1699024	0.24055436	2.5605144	21	4 21.7	18.1
47603 2000 AV_{232}	15.3	X	357.98381	338.47392	38.82544	3.23049	0.2159310	0.26477386	2.4018874	21	12 7.8	17.4
47604 2000 AF_{236}	14.6	X	280.49475	274.66794	266.25288	10.64115	0.0216264	0.22611433	2.6683983	21	—	—
47605 2000 AT_{237}	13.5	X	328.19521	34.78094	169.87517	12.07616	0.0290354	0.18405781	3.0607877	21	2 10.9	17.8
47606 2000 AA_{238}	14.8	X	320.50693	60.73441	133.55498	7.52000	0.1122474	0.28577930	2.2827002	21	—	—
47607 2000 AN_{242}	14.1	X	28.52189	18.58281	350.76414	12.50869	0.0400977	0.21689728	2.7434685	21	12 5.9	18.0
47608 2000 AE_{243}	12.9	X	276.83781	67.88137	219.76320	9.14404	0.0722283	0.19059245	2.9904204	21	3 13.3	17.3
47609 2000 AN_{251}	14.2	X	256.13220	75.29749	130.06404	2.11532	0.1046412	0.18017043	3.1046576	21	—	—
47610 2000 AY_{254}	15.9	X	256.36466	38.23770	291.65396	1.52606	0.1066571	0.24576722	2.5241786	21	4 3.7	19.6
47611 2000 BL_{1}	15.4	X	333.25892	26.20993	296.68291	1.05517	0.0727229	0.20666004	2.8333379	21	7 17.8	18.8
47612 2000 BO_{4}	14.5	X	83.30530	99.18280	359.13530	10.80207	0.2115077	0.23988767	2.5652563	21	3 19.7	17.2
47613 2000 BP_{12}	14.6	X	224.30457	213.42801	352.70546	1.11015	0.1648146	0.17329562	3.1862340	21	12 13.8	19.3
47614 2000 BO_{14}	13.4	X	248.93044	168.06819	44.47165	7.23970	0.1033847	0.17662886	3.1460209	21	—	—
47615 2000 BT_{22}	14.3	X	237.88809	52.25836	128.39294	1.88210	0.1314910	0.17269939	3.1935631	21	12 2.5	18.8
47616 2000 BC_{26}	13.8	X	273.26709	94.43606	107.09633	2.43641	0.1031460	0.18013566	3.1050571	21	—	—
47617 2000 BC_{27}	14.0	X	205.31072	347.63952	336.32925	12.97514	0.2723643	0.23450623	2.6043526	21	2 9.3	18.7
47618 2000 BD_{27}	14.8	X	20.26184	302.14665	98.71668	7.07467	0.0600377	0.22140134	2.7061336	21	—	—
47619 Johnpursch	14.5	X	160.20115	23.16464	135.00924	16.05108	0.0763240	0.20583613	2.8408937	21	8 24.3	18.7
47620 Joeplassmann	14.9	X	155.86580	286.96467	106.06345	8.43537	0.2093904	0.23921147	2.5700883	21	3 23.4	19.1
47621 2000 BO_{29}	13.9	X	296.67214	242.66626	247.44065	5.92063	0.1052015	0.21625714	2.7488798	21	12 31.3	17.2
47622 2000 BQ_{32}	15.5	X	57.25339	166.68469	131.72230	0.97431	0.0477288	0.21351256	2.7723864	21	10 17.1	19.1
47623 2000 BF_{38}	15.3	X	318.50480	175.09322	123.57748	7.07343	0.0716043	0.20087391	2.8874892	21	5 24.9	19.2
47624 2000 BG_{41}	14.8	X	292.43711	185.29976	132.99721	2.50944	0.1715578	0.19939435	2.9017555	21	4 28.9	18.7
47625 2000 BB_{49}	15.4	X	268.73450	214.00284	121.62067	10.19769	0.0586813	0.24602694	2.5224018	21	5 7.4	18.9
47626 2000 BS_{49}	14.9	X	220.77574	27.02948	335.96365	12.14673	0.0920473	0.24652352	2.5190134	21	4 3.9	18.9
47627 Kendomanik	14.0	X	301.49852	135.33213	147.29003	6.61339	0.0410260	0.19309010	2.9645768	21	4 16.2	18.1
47628 2000 CJ_{2}	14.4	X	53.80821	337.75857	63.62678	7.02971	0.0629293	0.26982124	2.3718395	21	—	—
47629 2000 CR_{4}	15.2	X	299.89407	220.53664	272.02469	2.70508	0.0448172	0.22448543	2.6812910	21	—	—
47630 2000 CF_{6}	15.2	X	113.76306	132.31967	249.42661	6.09597	0.1210865	0.28051613	2.3111643	21	—	—
47631 2000 CY_{17}	15.1	X	187.44425	4.09261	186.36327	1.50634	0.0138478	0.21560035	2.7544596	21	11 6.7	18.8
47632 2000 CA_{21}	14.7	X	144.28344	315.12914	293.29359	6.35059	0.0201510	0.21682876	2.7440464	21	11 25.6	18.6
47633 2000 CG_{23}	15.2	X	19.66347	218.51089	198.58725	4.12749	0.1085257	0.22398540	2.6852800	21	—	—
47634 2000 CN_{24}	15.0	X	139.40529	198.58495	148.44666	12.54319	0.1836867	0.22991772	2.6388888	21	1 4.8	19.0
47635 2000 CH_{25}	15.3	X	90.24386	262.60920	196.82240	4.48166	0.0944569	0.23748142	2.5825553	21	3 12.6	18.5
47636 2000 CV_{25}	14.8	X	127.79207	67.36798	223.25809	1.90365	0.0231556	0.21961241	2.7208094	21	12 29.8	18.6
47637 2000 CD_{28}	15.2	X	96.17213	304.55978	151.35462	8.12174	0.1077072	0.23757035	2.5819108	21	3 21.1	18.4
47638 2000 CP_{28}	15.0	X	262.02170	283.72218	185.15928	4.14035	0.0637095	0.21373388	2.7704722	21	10 20.8	18.7
47639 2000 CT_{29}	13.9	X	235.98434	52.40186	156.85010	1.85076	0.1519850	0.17454298	3.1710357	21	12 31.2	18.6
47640 2000 CA_{30}	14.8	X	229.80064	256.50003	162.87154	2.29339	0.0567364	0.20327681	2.8646891	21	7 6.7	18.8
47641 2000 CE_{30}	14.6	X	198.65103	95.46115	151.82351	9.80529	0.0503995	0.17557178	3.1586360	21	—	—
47642 2000 CF_{30}	15.4	X	245.61918	286.47054	149.53166	9.17193	0.2080246	0.25515828	2.4618576	21	7 30.1	19.1
47643 2000 CM_{30}	14.6	X	128.27336	289.31609	168.44887	3.65212	0.1342899	0.19586921	2.9364680	21	5 9.0	19.0
47644 2000 CO_{36}	13.2	X	224.15795	31.47877	190.50655	4.14375	0.1637874	0.17294983	3.1904795	21	12 31.7	18.2
47645 2000 CD_{37}	13.3	X	297.75081	129.49127	167.49668	10.53300	0.1017518	0.19234066	2.9722727	21	4 20.9	17.4
47646 2000 CE_{37}	14.0	X	7.60985	33.45341	165.01143	10.90597	0.0341553	0.18958460	3.0010093	21	3 28.8	18.0
47647 2000 CH_{38}	15.2	X	4.59383	261.51252	132.32967	2.51920	0.0558522	0.21884750	2.7271456	21	12 9.6	18.7
47648 2000 CA_{40}	15.2	X	52.20155	226.33649	160.89479	22.10411	0.3044841	0.27181007	2.3602555	21	—	—
47649 Susanbrew	14.4	X	316.79928	73.66834	126.73349	10.48255	0.0886775	0.18393283	3.0621742	21	1 15.9	18.7
47650 2000 CU_{40}	13.4	X	346.96221	297.57982	23.82616	6.19403	0.0658212	0.20373613	2.8603818	21	8 9.3	17.0
47651 2000 CV_{42}	14.5	X	87.03945	59.02834	167.59692	12.64726	0.0224511	0.20591263	2.8401900	21	8 16.8	18.4
47652 2000 CL_{44}	14.2	X	253.43274	4.14134	181.53582	10.14421	0.1285552	0.17492323	3.1664385	21	12 26.5	18.8
47653 2000 CD_{45}	14.3	X	179.95025	65.10157	161.26984	13.16040	0.0747026	0.21662169	2.7457948	21	12 9.6	18.6
47654 2000 CP_{46}	15.3	X	39.98066	246.08354	205.53650	3.27750	0.1481077	0.27616083	2.3354003	21	—	—
47655 2000 CB_{48}	13.9	X	282.24128	63.14117	162.21228	17.08276	0.1796781	0.18122489	3.0926029	21	—	—
47656 2000 CD_{48}	14.4	X	329.54781	198.37707	262.59886	5.88264	0.0862102	0.22126319	2.7072598	21	—	—
47657 2000 CE_{48}	14.0	X	124.98952	317.47938	287.23799	8.15439	0.0998081	0.21105241	2.7938891	21	10 30.9	18.4
47658 2000 CL_{48}	14.7	X	130.04090	299.33377	178.64121	11.61467	0.1325553	0.19793032	2.9160469	21	6 5.3	19.3
47659 2000 CM_{49}	13.7	X	202.04243	181.72241	165.58347	14.67043	0.1652609	0.23582825	2.5946104	21	3 2.4	17.9
47660 2000 CA_{51}	14.4	X	166.57862	198.42484	166.68812	12.20926	0.0328521	0.23302833	2.6153525	21	2 7.7	18.0
47661 2000 CP_{52}	14.0	X	67.42254	73.77048	314.43410	6.73072	0.1642064	0.22462408	2.6801875	21	—	—
47662 2000 CN_{53}	13.7	X	34.48595	312.19803	262.40610	0.72720	0.0338347	0.19550817	2.9400820	21	5 23.8	17.6
47663 2000 CD_{54}	14.6	X	190.53084	191.92498	158.40543	8.43573	0.0789007	0.23439335	2.6051888	21	2 20.8	18.4
47664 2000 CE_{54}	13.5	X	177.64789	342.04245	310.04175	5.50915	0.1099155	0.17704515	3.1410875	21	—	—
47665 2000 CX_{55}	14.3	X	35.96005	236.09613	143.10686	10.43771	0.0816758	0.22023367	2.7156903	21	—	—
47666 2000 CA_{58}	13.8	X	310.26794	301.18752	338.37888	9.44712	0.0651217	0.19197426	2.9760534	21	4 13.9	18.0
47667 2000 CD_{58}	13.2	X	268.08026	136.54956	127.13162	10.43948	0.0510547	0.18303163	3.0722174	21	2 9.6	17.6
47668 2000 CM_{60}	14.2	X	228.35091	73.93363	198.84577	8.93646	0.1171352	0.18157344	3.0886438	21	1 4.5	19.3
47669 2000 CC_{62}	14.5	X	297.02478	215.86699	236.77541	5.26267	0.0171089	0.21408170	2.7674706	21	11 20.7	18.3
47670 2000 CA_{63}	13.9	X	212.43869	19.13493	331.06851	14.42975	0.1349765	0.23570385	2.5955233	21	3 11.9	18.1
47671 2000 CP_{63}	14.5	X	114.81663	247.94867	169.94502	13.79097	0.1161332	0.23300684	2.6155133	21	2 23.0	18.1
47672 2000 CZ_{63}	14.3	X	60.47046	344.21814	321.07194	3.74288	0.0637844	0.20956103	2.8071290	21	10 29.8	18.2
47673 2000 CF_{64}	14.7	X	269.75333	293.42242	211.49078	11.21565	0.0926596	0.21930313	2.7233670	21	12 12.8	18.3
47674 2000 CT_{65}	14.7	X	269.81719	311.00316	140.91769	3.02657	0.0450034	0.21182259	2.7871127	21	10 12.3	18.5
47675 2000 CW_{66}	15.4	X	221.54564	276.86358	173.32295	13.44931	0.1699221	0.25386980	2.4701805	21	7 26.2	19.4
47676 2000 CE_{71}	13.1	X	209.49928	18.42759	313.72241	11.20387	0.1275951	0.18509752	3.0493152	21	2 22.7	18.1
47677 2000 CO_{71}	14.8	X	150.43490	306.64336	168.72396	11.10488	0.1225139	0.24475414	2.5311391	21	6 20.8	18.8
47678 2000 CT_{75}	12.9	X	264.57317	36.14204	191.21881	16.59511	0.1148663	0.17884963	3.1199241	21	—	—
47679 2000 CN_{76}	13.9	X	237.13661	213.05371	21.27608	2.15753	0.1232104	0.17717308	3.1395753	21	—	—
47680 2000 CC_{77}	14.2	X	40.99516	315.48018	163.26592	10.84711	0.0669792	0.18396697	3.0617953	21	2 1.1	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47681 2000 CZ_{77}	14.8	X	267.22732	124.31601	205.13933	1.19355	0.0635557	0.19507419	2.9444409	21	4 26.7	18.8
47682 2000 CO_{82}	14.3	X	203.55557	329.30228	333.42962	8.98529	0.0235719	0.18367763	3.0650098	21	1 17.3	18.7
47683 2000 CR_{82}	13.8	X	312.85837	229.26154	326.07423	1.56247	0.0590092	0.18346340	3.0673954	21	1 9.6	18.0
47684 2000 CT_{83}	13.7	X	238.30492	55.60369	138.02948	7.22431	0.1145741	0.17338128	3.1851844	21	12 20.5	18.4
47685 2000 CC_{84}	15.1	X	134.22977	232.74468	144.88012	7.56905	0.2011853	0.23293046	2.6160851	21	2 7.4	18.8
47686 2000 CA_{86}	14.2	X	359.42464	140.18525	37.39939	0.35124	0.1125097	0.18665819	3.0322943	21	2 12.6	17.9
47687 2000 CW_{86}	14.2	X	142.65776	60.65685	63.77358	3.50933	0.0347324	0.19896827	2.9058967	21	6 17.3	18.2
47688 2000 CO_{88}	14.6	X	13.92354	16.75915	8.55432	11.59664	0.2714559	0.26453511	2.4033324	21	—	—
47689 2000 CN_{91}	13.6	X	169.69067	52.52887	342.34655	9.74351	0.0878294	0.19123952	2.9836711	21	3 28.7	18.1
47690 2000 CQ_{92}	14.0	X	287.26559	166.64411	358.40330	4.83178	0.1396453	0.17530613	3.1618261	21	—	—
47691 2000 CT_{92}	13.6	X	228.98901	67.64067	28.86487	2.22453	0.0218200	0.20464679	2.8518899	21	8 28.7	17.5
47692 2000 CC_{94}	13.1	X	227.97636	49.03355	351.99390	11.54478	0.1074389	0.19827639	2.9126528	21	6 4.7	17.8
47693 2000 CG_{94}	14.0	X	114.82258	228.53140	169.74310	15.88503	0.1215550	0.22918914	2.6444784	21	1 29.5	17.7
47694 2000 CO_{94}	14.0	X	359.30897	17.17834	158.95084	7.50058	0.0730566	0.18428267	3.0582974	21	2 13.5	18.0
47695 2000 CC_{99}	15.8	X	282.47056	257.22396	148.07981	2.80942	0.1906611	0.25664822	2.4523204	21	8 6.8	18.6
47696 2000 CK_{100}	14.8	X	315.30490	122.26960	135.15620	11.00294	0.0515018	0.19314038	2.9640623	21	4 2.4	18.9
47697 2000 CZ_{101}	15.0	X	241.15439	296.31227	220.83413	5.66474	0.0779767	0.21725786	2.7404321	21	11 22.6	18.6
47698 2000 CG_{109}	14.8	X	53.42046	203.97458	245.95153	9.69369	0.0659207	0.23090832	2.6313361	21	1 2.0	18.0
47699 2000 CP_{116}	14.7	X	346.54302	271.52646	112.10773	13.03863	0.1160019	0.21405970	2.7676602	21	11 7.4	18.1
47700 2000 CQ_{121}	14.8	X	320.45679	156.17602	122.70630	3.04385	0.0398618	0.19790509	2.9162947	21	5 5.1	18.8
47701 2000 DA_{1}	14.4	X	247.75743	183.04989	345.23476	9.16020	0.1219958	0.22055848	2.7130234	21	12 7.6	18.2
47702 2000 DE_{2}	14.5	X	122.41073	202.88541	170.62408	5.76761	0.1192824	0.22547572	2.6734344	21	1 9.6	18.1
47703 2000 DR_{2}	15.4	X	41.38114	294.86814	159.35322	3.13765	0.0871953	0.23078377	2.6322828	21	—	—
47704 2000 DN_{4}	14.4	X	323.55619	7.08496	25.91315	5.94815	0.0200260	0.21165881	2.7885503	21	10 10.4	18.1
47705 2000 DT_{9}	14.9	X	177.03992	157.63704	135.67574	0.28656	0.1277149	0.17827774	3.1265927	21	—	—
47706 2000 DH_{12}	13.9	X	83.59312	254.92726	175.21007	9.63836	0.0874774	0.18262398	3.0767876	21	2 2.1	18.1
47707 2000 DB_{15}	14.3	X	11.50594	279.42234	159.66502	13.29164	0.1510763	0.22311373	2.6922694	21	—	—
47708 2000 DR_{15}	14.0	X	242.72791	209.30388	138.08436	10.33671	0.0691306	0.19234678	2.9722097	21	4 24.2	18.5
47709 2000 DC_{16}	14.1	X	278.24079	138.81711	359.67459	9.31687	0.1327071	0.21711244	2.7416557	21	12 9.6	17.6
47710 2000 DJ_{16}	13.1	X	45.28283	72.24586	8.97925	16.53157	0.1096820	0.17824230	3.1270071	21	—	—
47711 2000 DL_{16}	14.0	X	319.57655	66.41931	10.14326	12.95097	0.1819326	0.21433596	2.7652816	21	11 20.1	17.0
47712 2000 DB_{23}	15.7	X	181.36901	77.08865	335.55257	12.11287	0.1871228	0.24477376	2.5310039	21	4 27.9	20.1
47713 2000 DM_{23}	14.6	X	267.57258	136.13618	156.09302	1.14103	0.1117640	0.19022379	2.9942829	21	3 6.8	19.2
47714 2000 DS_{24}	14.6	X	266.46577	204.23354	98.50212	1.04496	0.1154387	0.19155002	2.9804459	21	3 18.2	18.9
47715 2000 DG_{25}	14.8	X	147.66677	150.73426	159.07628	6.28843	0.0790681	0.22380486	2.6867239	21	—	—
47716 2000 DQ_{25}	14.8	X	333.22236	82.58412	153.38098	11.78947	0.0511835	0.19151783	2.9807798	21	3 28.9	18.8
47717 2000 DU_{28}	14.4	X	265.23829	116.38270	154.56797	2.34541	0.0485364	0.18701020	3.0284880	21	2 13.8	18.9
47718 2000 DV_{29}	15.2	X	297.30357	254.52643	162.58870	4.01832	0.0882101	0.21172244	2.7879916	21	9 28.7	18.6
47719 2000 DC_{30}	15.0	X	232.13401	77.13303	173.50858	2.16680	0.0740269	0.17946678	3.1127674	21	—	—
47720 2000 DR_{34}	14.6	X	98.53127	163.59779	151.56085	12.16407	0.0628104	0.17154078	3.2079268	21	12 20.7	19.5
47721 2000 DS_{34}	15.1	X	31.84320	236.39193	146.65210	6.25678	0.0573789	0.21886928	2.7269647	21	—	—
47722 2000 DZ_{35}	15.0	X	206.49555	163.53535	174.40846	1.06122	0.0746374	0.18839982	3.0135777	21	2 28.9	19.5
47723 2000 DV_{37}	15.3	X	131.03124	269.71267	157.89388	2.68720	0.0480327	0.19092977	2.9868973	21	3 25.5	19.6
47724 2000 DE_{38}	14.7	X	36.35533	47.00311	166.96064	2.13097	0.0329622	0.19645661	2.9306118	21	5 26.0	18.5
47725 2000 DW_{39}	14.5	X	239.07959	1.29578	326.23895	9.41026	0.0260884	0.19094628	2.9867251	21	3 22.6	18.9
47726 2000 DE_{42}	14.6	X	237.85699	183.22383	153.16891	10.19442	0.0699030	0.19203871	2.9753874	21	4 3.8	19.1
47727 2000 DG_{44}	14.5	X	152.46609	63.84136	258.42138	0.73686	0.1452304	0.17814918	3.1280966	21	—	—
47728 2000 DP_{45}	14.9	X	327.76771	186.76645	204.98709	1.59485	0.0692913	0.21135274	2.7912418	21	10 12.1	18.4
47729 2000 DR_{45}	15.0	X	191.42064	210.46097	166.79997	11.92817	0.1382715	0.19274588	2.9681053	21	4 3.9	19.8
47730 2000 DY_{46}	15.1	X	1.22402	247.17647	179.81976	3.41177	0.1038357	0.22080927	2.7109687	21	—	—
47731 2000 DM_{48}	14.3	X	164.65132	140.71212	143.02225	1.75441	0.1552872	0.17321589	3.1872115	21	—	—
47732 2000 DR_{51}	14.4	X	122.66011	224.03621	97.81722	1.93588	0.1636814	0.17379319	3.1801495	21	—	—
47733 2000 DW_{51}	14.3	X	254.44818	222.74345	147.68765	3.16729	0.0763997	0.19893008	2.9062686	21	6 1.4	18.5
47734 2000 DX_{55}	14.9	X	286.94888	289.82006	148.65159	4.01057	0.0679461	0.21183583	2.7869966	21	10 15.3	18.4
47735 2000 DS_{60}	12.3	X	161.57890	264.66984	348.30775	16.33276	0.0653180	0.17000738	3.2271875	21	12 11.5	17.5
47736 2000 DG_{61}	14.2	X	165.89120	262.51735	55.95029	1.37364	0.1591080	0.17796262	3.1302825	21	1 4.1	19.2
47737 2000 DT_{66}	14.7	X	232.66802	192.32940	157.20727	11.91141	0.1295170	0.19273712	2.9681953	21	4 10.5	19.4
47738 2000 DB_{68}	14.8	X	331.36359	258.16294	151.14420	5.10077	0.0685109	0.21341955	2.7731918	21	11 12.1	18.2
47739 2000 DD_{69}	14.9	X	64.06347	255.50334	184.45248	4.67786	0.1966185	0.23090640	2.6313507	21	1 16.4	17.4
47740 2000 DC_{71}	13.6	X	115.25930	137.31033	176.87360	13.99323	0.0742988	0.17088867	3.2160827	21	—	—
47741 2000 DQ_{71}	14.2	X	166.02268	91.95715	345.99619	11.54313	0.0261656	0.19476620	2.9475441	21	5 12.1	18.6
47742 2000 DX_{73}	14.1	X	336.44683	250.68236	255.36350	0.49620	0.1366076	0.17941797	3.1133319	21	—	—
47743 2000 DH_{74}	14.2	X	338.65425	107.92187	341.70518	12.60246	0.1176436	0.21959213	2.7209770	21	—	—
47744 2000 DJ_{75}	14.0	X	256.15953	236.38726	327.70747	3.72138	0.0693085	0.17477072	3.1682803	21	—	—
47745 2000 DE_{77}	13.9	X	113.71672	303.18031	15.12659	0.95558	0.1788688	0.17074698	3.2178616	21	—	—
47746 2000 DY_{77}	15.0	X	340.79241	306.11274	169.75967	3.28248	0.1636760	0.17779304	3.1322725	21	—	—
47747 2000 DH_{81}	14.2	X	133.43607	347.72150	346.04633	11.38938	0.0868136	0.22647471	2.6655668	21	—	—
47748 2000 DF_{82}	14.3	X	316.00251	153.57977	35.64842	4.63661	0.0751501	0.18365192	3.0652959	21	1 4.1	18.6
47749 2000 DX_{82}	14.1	X	295.47073	47.10652	107.60981	8.49553	0.1120673	0.17743254	3.1365139	21	—	—
47750 2000 DM_{85}	14.7	X	242.27346	159.68744	126.70637	13.36079	0.2576140	0.23010617	2.6374478	21	1 21.4	19.3
47751 2000 DO_{85}	15.4	X	125.56656	56.00164	8.60310	8.37776	0.1932243	0.23882881	2.5728328	21	3 27.5	18.9
47752 2000 DD_{87}	14.4	X	287.52568	111.94994	350.37067	16.32114	0.0471358	0.21544040	2.7558228	21	11 10.9	18.4
47753 2000 DY_{92}	14.8	X	287.91712	84.05269	65.22239	3.19524	0.0048783	0.22235750	2.6983702	21	—	—
47754 2000 DE_{94}	14.5	X	300.83812	61.07458	141.82850	10.99416	0.0844240	0.18260937	3.0769517	21	—	—
47755 2000 DL_{94}	15.1	X	151.64789	16.14273	342.61700	14.07226	0.1475794	0.23214731	2.6219653	21	1 31.5	19.1
47756 2000 DO_{96}	15.0	X	355.83105	135.67749	323.36333	3.91206	0.0311255	0.22482845	2.6785631	21	—	—
47757 2000 DD_{98}	15.6	X	169.66302	70.01077	353.60474	13.58115	0.1434964	0.24315904	2.5421964	21	4 29.5	19.8
47758 2000 DV_{98}	14.5	X	355.47824	139.62232	6.15349	9.38961	0.0199129	0.18310809	3.0713621	21	1 9.3	18.9
47759 2000 DR_{99}	14.6	X	307.48683	325.65308	97.36541	6.21915	0.0348931	0.21270341	2.7794130	21	10 28.8	18.3
47760 2000 DQ_{100}	14.5	X	352.43783	55.40598	90.18567	5.47964	0.0236374	0.18201494	3.0836473	21	1 3.5	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47761 2000 DR_{100}	13.9	X	206.21883	311.73965	13.15170	9.08468	0.1306222	0.18551200	3.0447715	21	2 16.9	18.8
47762 2000 DT_{100}	14.5	X	106.85820	20.59021	56.16140	5.57088	0.1246643	0.23588153	2.5942197	21	3 14.3	17.9
47763 2000 DR_{101}	14.4	X	96.38610	359.69561	6.15872	13.17695	0.1816364	0.22477128	2.6790172	21	—	—
47764 2000 DX_{102}	14.4	X	214.57950	154.16771	135.37371	10.17477	0.0612798	0.18126372	3.0921611	21	1 12.2	19.1
47765 2000 DZ_{102}	13.8	X	223.73817	221.57643	134.28799	11.37367	0.1273371	0.19262591	2.9693377	21	4 11.0	18.6
47766 2000 DP_{103}	13.7	X	145.13364	323.52982	9.74617	13.67701	0.1871601	0.22468856	2.6796747	21	—	—
47767 2000 DR_{103}	14.2	X	112.09501	234.27110	95.88199	4.93399	0.1004489	0.22023717	2.7156615	21	—	—
47768 2000 DD_{104}	14.7	X	69.80736	192.20614	110.05598	5.46589	0.0633084	0.21089759	2.7952563	21	11 10.3	18.6
47769 2000 DK_{104}	13.4	X	142.61099	276.96128	12.40247	13.12028	0.0930670	0.17171896	3.2057074	21	—	—
47770 2000 DN_{104}	14.5	X	313.98831	309.76889	114.50840	8.79845	0.1124986	0.21394413	2.7686569	21	11 4.9	17.8
47771 2000 DC_{105}	14.5	X	156.54782	188.65451	131.95590	11.60910	0.0683849	0.17777130	3.1325280	21	—	—
47772 2000 DO_{107}	14.7	X	184.63187	194.64179	214.76860	1.08058	0.1129247	0.19484970	2.9467020	21	5 4.0	19.4
47773 2000 DV_{108}	13.9	X	270.85251	146.92547	122.40830	10.77457	0.0417637	0.18711563	3.0273503	21	2 21.1	18.3
47774 2000 DC_{110}	14.2	X	167.56748	154.63448	159.02912	10.43288	0.0636891	0.17775733	3.1326921	21	—	—
47775 2000 DX_{115}	14.0	X	26.46910	329.66812	332.95484	14.56697	0.1413458	0.20385538	2.8592662	21	9 16.0	17.5
47776 2000 EX	14.0	X	333.42604	247.74046	188.41150	8.86287	0.1449819	0.21527063	2.7572715	21	12 21.4	17.2
47777 2000 EK_{9}	13.9	X	189.09064	155.85626	110.17495	2.60123	0.1566460	0.17410355	3.1763691	21	—	—
47778 2000 EX_{10}	14.6	X	319.58193	289.00785	42.78105	2.32427	0.1215854	0.20201082	2.8766452	21	7 2.8	18.1
47779 2000 EE_{11}	14.0	X	191.12476	298.62332	5.06193	9.41705	0.0790978	0.18065944	3.0990525	21	1 7.2	18.8
47780 2000 EM_{13}	14.6	X	124.17294	4.86198	233.21734	1.95640	0.0608865	0.21210135	2.7846701	21	10 22.1	18.7
47781 2000 EK_{17}	13.8	X	316.87786	184.68508	341.13127	6.72733	0.1051474	0.17837024	3.1255116	21	—	—
47782 2000 EL_{18}	14.7	X	121.69221	85.33357	79.34179	3.16456	0.0109937	0.20156341	2.8809005	21	7 11.2	18.7
47783 2000 EU_{19}	14.0	X	21.06710	334.79534	54.18326	9.86632	0.1613626	0.21643488	2.7473746	21	—	—
47784 2000 EY_{19}	13.5	X	282.82409	337.99425	159.00606	15.62931	0.0848644	0.16950408	3.2335726	21	12 12.7	18.1
47785 2000 EL_{20}	14.6	X	319.34312	284.74383	207.91816	11.24012	0.1347395	0.22352078	2.6889998	21	—	—
47786 2000 EQ_{20}	13.0	X	56.21694	321.98632	224.11130	14.23977	0.1291569	0.19467467	2.9484680	21	5 29.3	16.7
47787 2000 EW_{24}	14.1	X	1.05876	323.41804	182.42850	7.89374	0.0248377	0.18035539	3.1025346	21	1 13.5	18.5
47788 2000 EB_{26}	13.9	X	324.45814	36.84604	39.37730	1.41179	0.0763104	0.16780961	3.2553035	21	11 25.0	18.0
47789 2000 ED_{26}	15.1	X	262.08282	327.52230	14.69372	5.35883	0.3204507	0.23625936	2.5914532	21	4 7.1	19.4
47790 2000 EJ_{30}	14.2	X	256.50353	213.76115	117.94925	10.70287	0.0529878	0.19309807	2.9644952	21	4 23.1	18.6
47791 2000 EC_{31}	13.9	X	194.75551	229.33987	112.68229	10.49347	0.1426226	0.18607846	3.0385892	21	2 26.0	18.9
47792 2000 EV_{31}	14.3	X	171.18231	18.09209	334.66826	8.22962	0.0485413	0.18619014	3.0373739	21	2 9.7	18.7
47793 2000 EO_{32}	15.3	X	132.57968	38.42375	32.13506	4.26869	0.1942886	0.23933259	2.5692211	21	4 11.8	19.1
47794 2000 EP_{38}	14.3	X	182.97665	29.82702	5.85681	1.63617	0.0853404	0.19065053	2.9898131	21	4 14.9	18.9
47795 2000 ER_{38}	14.0	X	287.05431	292.90397	278.93752	1.24852	0.0382383	0.17903108	3.1178156	21	1 2.3	18.5
47796 2000 EN_{40}	13.5	X	350.38161	142.19551	33.63332	2.14439	0.1012292	0.18281861	3.0746034	21	1 30.4	17.4
47797 2000 EQ_{40}	13.5	X	31.84023	43.24319	167.41839	9.57672	0.0056970	0.19266556	2.9689302	21	5 15.9	17.8
47798 2000 EP_{45}	13.5	X	257.28543	94.66171	188.98171	9.45311	0.0634646	0.18333641	3.0688117	21	2 17.1	18.1
47799 2000 ES_{49}	14.2	X	46.91544	105.31279	1.86196	12.63775	0.1438348	0.22889571	2.6467380	21	1 23.7	17.2
47800 2000 ED_{50}	13.7	X	356.54059	167.54857	10.14549	9.33408	0.0304031	0.18256683	3.0774296	21	2 19.2	17.9
47801 2000 EF_{55}	13.3	X	309.20958	322.64076	172.19873	14.36623	0.1363805	0.17204244	3.2016878	21	—	—
47802 2000 EZ_{56}	14.4	X	346.75928	318.42975	197.45279	5.26785	0.1125178	0.18121923	3.0926672	21	—	—
47803 2000 EK_{58}	14.4	X	58.37177	98.34629	350.54688	8.11087	0.0667148	0.18201478	3.0836490	21	1 23.5	18.5
47804 2000 EP_{59}	15.1	X	101.83866	9.19365	18.37880	2.26586	0.2133209	0.22662570	2.6643827	21	1 15.5	18.4
47805 2000 EY_{60}	13.6	X	124.91458	351.17545	356.91529	20.88500	0.1136724	0.17552381	3.1592114	21	—	—
47806 2000 EV_{65}	14.3	X	88.06486	358.39943	42.24471	0.91740	0.0390674	0.17822410	3.1272200	21	—	—
47807 2000 ED_{67}	14.4	X	126.20080	224.47345	197.73016	9.57598	0.1064637	0.18708352	3.0276967	21	3 19.1	18.8
47808 2000 EG_{67}	14.6	X	76.82387	149.59770	296.40209	2.02411	0.1181509	0.18404025	3.0609824	21	2 17.4	18.4
47809 2000 EA_{78}	15.7	X	34.38577	320.20974	87.96666	3.29588	0.2008176	0.27042047	2.3683343	21	—	—
47810 2000 EE_{79}	14.9	X	220.60456	241.82738	148.13458	16.22072	0.2165245	0.24535338	2.5270162	21	5 13.2	19.5
47811 2000 ER_{79}	14.1	X	183.23053	161.81704	127.72868	6.46367	0.1371673	0.17658947	3.1464887	21	—	—
47812 2000 EW_{79}	14.0	X	310.50798	104.04697	108.40946	3.92066	0.0528030	0.18425018	3.0586569	21	1 28.2	18.1
47813 2000 EK_{84}	13.9	X	64.98436	105.71592	72.34331	2.97490	0.0637863	0.19473300	2.9478792	21	5 22.2	17.8
47814 2000 ED_{85}	14.0	X	77.71567	338.57179	214.16717	10.87905	0.0158430	0.19935903	2.9020983	21	6 20.3	18.1
47815 2000 EP_{85}	14.0	X	264.71842	22.59145	242.75626	8.85220	0.0472134	0.18490555	3.0514254	21	2 3.8	18.7
47816 2000 EE_{86}	14.0	X	289.59497	275.67842	151.42423	9.71931	0.1516686	0.20881600	2.8138020	21	9 22.3	17.5
47817 2000 EW_{89}	14.5	X	176.34327	223.40883	147.74569	9.99258	0.1678542	0.23514985	2.5995983	21	3 10.3	18.6
47818 2000 EA_{91}	13.6	X	353.78703	62.56394	322.69060	8.04666	0.1668438	0.21213313	2.7843921	21	11 17.2	16.7
47819 2000 EJ_{91}	13.7	X	306.24086	319.60809	319.20660	8.69717	0.0856956	0.18960896	3.0007523	21	4 4.6	18.0
47820 2000 EB_{93}	14.0	X	179.83113	220.69162	192.35170	10.64934	0.0884842	0.19293177	2.9661985	21	5 4.8	18.6
47821 2000 EN_{93}	14.6	X	101.59390	203.91974	240.21840	7.45878	0.2044757	0.23564708	2.5959402	21	3 23.0	18.1
47822 2000 EX_{95}	14.4	X	176.73962	209.82819	141.08152	5.55007	0.1997434	0.23160387	2.6260652	21	2 15.2	18.5
47823 2000 EK_{97}	13.9	X	353.13933	265.02872	228.22438	10.11284	0.1333932	0.17783053	3.1318323	21	—	—
47824 2000 ED_{103}	14.2	X	61.06958	180.66706	170.95116	13.57667	0.1317965	0.21582924	2.7525119	21	—	—
47825 2000 EO_{103}	14.2	X	100.69145	282.16097	97.52483	10.44086	0.0844154	0.17983662	3.1084983	21	—	—
47826 2000 EC_{105}	13.2	X	93.59757	307.93666	59.86778	12.10014	0.0586911	0.17396540	3.1780505	21	—	—
47827 2000 EJ_{105}	13.3	X	113.83945	224.56173	111.80169	11.53649	0.1678634	0.17029240	3.2235856	21	—	—
47828 2000 EV_{109}	13.1	X	35.95175	162.41039	184.25038	21.13187	0.0926351	0.16091885	3.3475836	21	11 18.6	17.9
47829 2000 EF_{110}	13.8	X	193.26852	335.07125	23.97915	15.39943	0.1348631	0.23436791	2.6053773	21	3 14.4	18.0
47830 2000 EF_{111}	14.0	X	101.65049	193.58372	146.04807	16.47871	0.1075821	0.17117202	3.2125325	21	—	—
47831 2000 ED_{112}	14.6	X	296.03037	260.94833	213.34314	11.78359	0.1243369	0.21827226	2.7319350	21	12 8.8	17.9
47832 2000 EC_{113}	13.5	X	206.76667	111.77340	191.69031	16.05677	0.0653437	0.18079193	3.0975383	21	1 18.0	18.5
47833 2000 EJ_{114}	14.1	X	202.90740	205.01303	293.85376	0.78140	0.0229534	0.20400830	2.8578372	21	9 18.2	18.1
47834 2000 EN_{114}	13.8	X	25.12648	47.29583	18.15372	23.63600	0.3131207	0.26806257	2.3822021	21	—	—
47835 Stevecoe	13.8	X	25.79391	338.96171	110.78659	14.94231	0.1311132	0.22809127	2.6529574	21	—	—
47836 2000 EU_{116}	13.3	X	306.20015	303.14670	230.39369	8.12783	0.0519121	0.17488787	3.1668652	21	—	—
47837 2000 EB_{118}	13.6	X	339.38688	118.83144	66.55341	12.34697	0.0852476	0.18537119	3.0463133	21	1 30.5	17.8
47838 2000 EP_{119}	13.6	X	9.45263	287.15670	55.72111	10.10569	0.2083981	0.21062413	2.7976753	21	10 28.5	16.5
47839 2000 ES_{119}	13.3	X	283.88396	198.41526	31.49832	10.07528	0.0417682	0.18363581	3.0654752	21	1 21.4	17.8
47840 2000 EW_{119}	14.3	X	84.49989	4.12117	118.46376	12.01610	0.0602392	0.19191736	2.9766416	21	4 12.1	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47841 2000 EO_{121}	13.6	X	205.45414	295.38248	38.85918	10.78750	0.1575299	0.23489931	2.6014465	21	2 23.2	18.0
47842 2000 EH_{122}	14.4	X	38.32559	3.34005	118.78101	3.09571	0.0414360	0.18493133	3.0511418	21	2 2.2	18.5
47843 Maxson	13.3	X	165.54652	294.88319	67.86598	11.63003	0.0633196	0.18307617	3.0717191	21	2 21.0	18.0
47844 2000 EQ_{126}	14.3	X	138.24948	354.65275	14.27822	11.60718	0.0890401	0.18196802	3.0841773	21	1 31.8	19.0
47845 2000 ED_{129}	14.2	X	237.16380	327.14810	7.47883	10.28301	0.1077064	0.18938751	3.0030910	21	3 26.8	18.9
47846 2000 EM_{133}	14.3	X	167.00376	295.86106	141.42138	2.71336	0.0880653	0.19514072	2.9437716	21	5 20.5	18.7
47847 2000 EV_{133}	13.8	X	233.65076	209.78006	123.32919	10.91769	0.1066749	0.18677848	3.0309922	21	3 25.9	18.6
47848 2000 EY_{133}	13.8	X	170.53623	24.61862	11.92528	10.19251	0.1116823	0.18992246	2.9974492	21	4 4.4	18.5
47849 2000 EY_{135}	14.0	X	208.20672	282.44976	83.33268	7.77607	0.1115964	0.18885845	3.0086969	21	4 8.2	18.8
47850 2000 EB_{137}	14.1	X	80.26166	75.59133	16.01087	10.29056	0.0859612	0.18496555	3.0507654	21	3 1.1	18.2
47851 Budine	13.9	X	84.69430	69.43353	72.17208	9.71080	0.0340430	0.19078607	2.9883969	21	4 30.1	18.0
47852 2000 EQ_{140}	14.8	X	305.69452	61.40616	6.14006	7.04983	0.1048722	0.26225971	2.4172135	21	10 30.7	17.4
47853 2000 EA_{144}	14.0	X	184.24879	105.69780	218.60892	11.95371	0.2234607	0.22857529	2.6492109	21	1 19.4	18.7
47854 2000 EY_{150}	14.5	X	337.53082	239.44229	192.87253	8.16481	0.1290002	0.21633973	2.7481801	21	12 22.9	17.6
47855 2000 EU_{153}	14.7	X	148.13403	267.10338	140.38574	3.19932	0.1750518	0.18997709	2.9968746	21	4 1.8	19.5
47856 2000 EO_{154}	14.0	X	269.81328	24.90126	354.09588	2.02958	0.0778186	0.19777475	2.9175759	21	7 1.3	18.1
47857 2000 ET_{155}	14.2	X	57.25658	156.34882	317.39874	11.18837	0.0647251	0.18473155	3.0533411	21	2 17.4	18.1
47858 2000 EB_{158}	13.4	X	116.31750	165.79206	305.78080	8.81293	0.0519471	0.19119944	2.9840881	21	4 27.9	17.8
47859 2000 EJ_{158}	14.5	X	340.05910	230.02691	249.37991	11.76910	0.1232347	0.22198477	2.7013898	21	—	—
47860 2000 EX_{163}	14.2	X	54.60851	359.14272	6.73858	5.09030	0.1725325	0.21760000	2.7375588	21	—	—
47861 2000 EY_{169}	13.2	X	220.17883	236.30379	110.90571	10.82351	0.1558544	0.19041709	2.9922561	21	3 27.9	18.2
47862 2000 ED_{175}	14.3	X	278.22103	243.15230	119.54635	12.66628	0.1318744	0.20112201	2.8851140	21	6 13.8	18.5
47863 2000 EC_{180}	14.2	X	41.85971	308.55113	98.26434	9.59881	0.0289430	0.17740544	3.1368332	21	—	—
47864 2000 EN_{184}	13.8	X	177.63968	233.68420	118.59485	10.85364	0.0967543	0.18405972	3.0607666	21	2 20.0	18.5
47865 2000 FK_{3}	13.6	X	139.22047	356.52026	72.74430	11.04883	0.0804883	0.19067067	2.9896026	21	4 14.2	18.1
47866 2000 FM_{5}	15.4	X	292.87351	115.36556	247.77026	1.01906	0.0826019	0.20363717	2.8613084	21	7 10.3	19.1
47867 2000 FC_{6}	14.1	X	101.96866	181.90808	175.98013	0.78226	0.1482348	0.17152644	3.2081057	21	—	—
47868 2000 FS_{11}	13.7	X	100.81549	39.07480	58.36169	12.89601	0.1290993	0.23758311	2.5818183	21	4 6.3	17.2
47869 2000 FF_{12}	14.2	X	356.40417	76.26813	14.87094	22.04800	0.0770228	0.22271429	2.6954875	21	—	—
47870 2000 FK_{13}	12.7	X	195.57920	114.13952	115.42407	16.03827	0.0767166	0.16999601	3.2273315	21	12 21.1	17.7
47871 2000 FQ_{13}	14.3	X	220.33334	297.57300	105.72188	13.74820	0.1764794	0.24460184	2.5321897	21	5 29.6	18.5
47872 2000 FV_{15}	14.4	X	275.36448	317.32751	141.82534	8.67199	0.1838609	0.21334665	2.7738235	21	10 10.8	18.0
47873 2000 FV_{16}	14.2	X	345.28182	336.23497	122.51225	10.74840	0.0528919	0.17388171	3.1790702	21	—	—
47874 2000 FP_{17}	13.5	X	158.68260	308.33442	53.38750	10.37571	0.0725481	0.18200674	3.0837399	21	2 12.6	18.2
47875 2000 FG_{21}	14.2	X	349.98915	307.25493	92.25137	10.19584	0.1624333	0.21353063	2.7722300	21	12 3.6	17.1
47876 2000 FM_{21}	14.5	X	354.64447	316.41225	70.16979	10.31207	0.1707519	0.21182787	2.7870664	21	11 24.3	17.3
47877 2000 FE_{23}	13.3	X	163.78863	258.51552	107.00082	11.22163	0.1126261	0.18205201	3.0832287	21	2 24.3	18.2
47878 2000 FK_{25}	14.1	X	285.92494	338.44343	193.20561	9.22139	0.0455957	0.17480661	3.1678467	21	—	—
47879 2000 FR_{26}	13.9	X	191.48160	28.73661	10.44273	10.74546	0.0983554	0.19165549	2.9793524	21	4 25.7	18.7
47880 2000 FY_{27}	14.2	X	73.37018	79.39772	313.26270	2.15686	0.2525062	0.22215666	2.6999962	21	—	—
47881 2000 FV_{30}	14.4	X	186.54295	357.61619	38.74667	12.27872	0.1751336	0.23690087	2.5867728	21	4 19.3	18.5
47882 2000 FT_{38}	13.9	X	226.11749	223.45948	99.39995	3.20200	0.0684511	0.18352587	3.0666993	21	3 5.6	18.6
47883 2000 FZ_{39}	14.5	X	43.69060	266.41923	158.03508	8.75472	0.2866004	0.22411991	2.6842055	21	—	—
47884 2000 FN_{40}	14.6	X	359.69227	267.70861	150.13213	9.38928	0.1481920	0.21544350	2.7557964	21	—	—
47885 2000 FB_{42}	14.2	X	21.42115	317.09702	146.09360	8.51615	0.0733561	0.17715160	3.1398290	21	—	—
47886 2000 FT_{42}	13.9	X	43.60767	101.11399	86.37752	2.68907	0.0265862	0.19203114	2.9754657	21	5 1.4	17.9
47887 2000 FY_{42}	14.1	X	307.00747	21.68280	116.05865	5.75783	0.0840625	0.17394419	3.1783089	21	—	—
47888 2000 FC_{46}	13.3	X	82.20099	291.69202	82.49695	9.13047	0.0790367	0.17292132	3.1908301	21	—	—
47889 2000 FL_{47}	13.9	X	347.33019	320.35101	155.19934	12.36778	0.1179652	0.17525735	3.1624128	21	—	—
47890 2000 FB_{49}	13.2	X	275.18335	234.94890	352.44764	15.97740	0.0843685	0.17665880	3.1456654	21	1 5.3	18.2
47891 2000 FO_{65}	14.3	X	91.75855	329.99448	53.89909	1.89385	0.1892412	0.17669161	3.1452760	21	1 5.0	18.4
47892 2000 GT_{5}	14.0	X	294.70759	329.52478	198.93546	4.97792	0.1136726	0.17375902	3.1805665	21	—	—
47893 2000 GY_{11}	13.7	X	148.58283	85.08615	345.03179	9.70387	0.0903101	0.19008171	2.9957748	21	4 17.8	18.3
47894 2000 GS_{21}	15.0	X	340.17357	222.48619	201.45908	1.63110	0.2107981	0.21514411	2.7583524	21	12 21.8	17.6
47895 2000 GZ_{25}	15.7	X	138.76325	61.06625	18.36280	3.03417	0.2768363	0.23902129	2.5714514	21	5 5.2	20.1
47896 2000 GE_{36}	13.7	X	115.26203	17.81754	40.56211	1.77558	0.1351108	0.18343201	3.0677453	21	3 8.2	18.0
47897 2000 GO_{38}	14.6	X	51.75727	238.78359	192.53806	14.51005	0.0926634	0.22327221	2.6909952	21	—	—
47898 2000 GA_{47}	13.7	X	195.95890	242.70285	201.94003	12.16162	0.0861907	0.19683330	2.9268715	21	6 27.8	18.4
47899 2000 GO_{48}	13.9	X	29.35990	276.26985	203.43636	17.95576	0.1443520	0.18072551	3.0982972	21	1 14.7	17.9
47900 2000 GS_{48}	14.6	X	149.54700	60.63864	30.92868	1.45497	0.1469461	0.19271028	2.9684709	21	5 23.0	19.3
47901 2000 GH_{54}	13.7	X	79.42141	7.56942	27.81468	16.04623	0.0712769	0.17393571	3.1784122	21	—	—
47902 2000 GM_{55}	14.4	X	64.12257	258.50136	199.32900	13.11321	0.0889649	0.18120181	3.0928654	21	2 7.9	18.6
47903 2000 GX_{55}	13.7	X	331.03986	316.27989	183.99320	6.29522	0.1011754	0.17483764	3.1674718	21	—	—
47904 2000 GW_{56}	14.0	X	1.13243	10.63288	69.77895	1.84445	0.1698278	0.17207329	3.2013051	21	—	—
47905 2000 GN_{63}	14.0	X	59.88463	292.79573	121.76216	2.68965	0.1546630	0.17492392	3.1664302	21	—	—
47906 2000 GV_{67}	13.3	X	158.34944	317.02320	45.66709	8.75228	0.0757555	0.17874776	3.1211093	21	2 13.7	18.1
47907 2000 GT_{71}	12.7	X	126.16762	265.17974	94.37492	1.74488	0.2923511	0.12474727	3.9668765	21	2 3.8	19.0
47908 2000 GH_{72}	13.8	X	127.93090	213.48280	206.29791	11.74167	0.2557589	0.23090059	2.6313948	21	3 30.3	17.9
47909 2000 GC_{74}	13.2	X	197.03410	219.01682	212.25584	3.77061	0.0929256	0.19358657	2.9595061	21	6 13.1	17.8
47910 2000 GY_{74}	13.6	X	104.48740	331.02425	41.92200	9.43924	0.0617675	0.17248529	3.1962054	21	—	—
47911 2000 GT_{76}	13.6	X	239.14065	358.61554	30.32920	9.97400	0.0856053	0.19222248	2.9734908	21	6 4.2	18.2
47912 2000 GA_{81}	14.5	X	6.06887	218.86594	274.75090	1.27656	0.1726914	0.17965627	3.1105782	21	—	—
47913 2000 GR_{81}	14.1	X	6.97862	42.39082	30.23460	9.85213	0.1432797	0.21669103	2.7452091	21	—	—
47914 2000 GM_{90}	13.4	X	91.59025	329.46701	163.66370	12.36273	0.0530590	0.18884026	3.0088901	21	5 1.8	17.7
47915 2000 GG_{91}	14.0	X	236.21644	2.00721	60.76999	12.14588	0.1583273	0.24542456	2.5265276	21	7 9.1	17.9
47916 2000 GA_{98}	13.7	X	183.31643	189.94700	210.90349	13.17264	0.1101113	0.19050300	2.9913565	21	4 22.5	18.4
47917 2000 GO_{100}	13.8	X	136.63820	60.94762	7.50250	12.56670	0.1610158	0.23420844	2.6065598	21	4 8.1	17.6
47918 2000 GN_{101}	13.1	X	243.71313	52.85579	203.28337	12.02833	0.0365547	0.17837010	3.1255132	21	1 4.4	17.9
47919 2000 GS_{101}	13.7	X	139.82978	173.42698	211.78812	8.66943	0.0549299	0.18235599	3.0798013	21	2 10.6	18.3
47920 2000 GZ_{104}	13.5	X	226.68148	190.96029	107.85563	2.96018	0.1383820	0.17780410	3.1321427	21	2 3.2	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
47921 2000 GW_{106}	14.0	X	315.33687	262.33799	192.61227	8.87562	0.1374714	0.21338969	2.7734506	21	12 13.9	17.1
47922 2000 GK_{109}	13.6	X	188.49867	254.34147	173.52196	9.94143	0.0788046	0.19252459	2.9703793	21	6 1.3	18.3
47923 2000 GJ_{111}	14.0	X	40.14602	77.47847	324.21657	3.34047	0.0417926	0.17092657	3.2156073	21	—	—
47924 2000 GS_{113}	14.2	X	99.38122	255.10250	214.32226	12.00192	0.1355810	0.18991898	2.9974859	21	4 19.7	18.3
47925 2000 GC_{118}	15.1	X	193.25181	28.50646	345.41362	2.66407	0.2170695	0.23632250	2.5909916	21	3 27.4	19.4
47926 2000 GK_{135}	13.9	X	129.00789	290.20181	154.01799	14.11406	0.1227862	0.23491264	2.6013480	21	4 21.7	17.8
47927 2000 GG_{148}	14.7	X	174.22131	158.96846	178.31290	1.97115	0.1704363	0.18034734	3.1026269	21	2 1.5	19.8
47928 2000 GD_{154}	13.6	X	129.74753	191.15269	226.79778	11.53820	0.0591439	0.18555637	3.0442862	21	3 9.3	18.1
47929 2000 GZ_{156}	14.1	X	253.23031	203.11678	289.09161	8.01210	0.1010813	0.21070326	2.7969747	21	10 29.4	18.1
47930 2000 GK_{159}	13.8	X	232.10433	69.02279	221.85330	16.25567	0.0947956	0.18068806	3.0987253	21	1 25.9	19.0
47931 2000 GG_{167}	14.1	X	216.06178	75.90545	215.79451	12.22055	0.1467846	0.17993619	3.1073514	21	1 13.4	19.4
47932 2000 GN_{171}	6.2	X	16.20013	195.87745	26.16736	10.82401	0.2830608	0.00396851	39.5109503	21	5 31.3	20.9
47933 2000 HS_{7}	14.5	X	17.26743	330.91064	140.94321	1.29369	0.1941486	0.17821122	3.1273707	21	—	—
47934 2000 HU_{7}	13.8	X	29.88841	85.90989	41.78965	15.00386	0.2120340	0.18192993	3.0846077	21	2 5.8	17.3
47935 2000 HR_{11}	14.2	X	156.41156	231.97877	224.70540	11.55434	0.1620995	0.23974365	2.5662836	21	6 4.8	18.4
47936 2000 HS_{29}	13.8	X	177.37445	30.30368	5.20894	5.78816	0.0820910	0.18625715	3.0366454	21	4 8.7	18.3
47937 2000 HB_{44}	14.5	X	72.29013	348.33050	103.63092	3.34890	0.1244283	0.18441541	3.0568297	21	2 20.8	18.3
47938 2000 HL_{45}	14.3	X	246.25573	273.67875	132.52893	2.74803	0.1077535	0.19729689	2.9222849	21	7 3.4	18.7
47939 2000 HO_{58}	14.6	X	290.64034	251.15220	189.33516	7.70829	0.1984195	0.20887720	2.8132523	21	10 2.8	18.0
47940 2000 HE_{59}	13.3	X	27.47383	239.86282	227.63398	15.35242	0.0790482	0.17676969	3.1443498	21	—	—
47941 2000 HU_{61}	13.2	X	118.65058	157.16665	196.67402	2.81158	0.1293641	0.12464930	3.9689547	21	1 4.3	19.0
47942 2000 HW_{76}	13.4	X	320.84142	295.72103	212.83561	13.04309	0.0933672	0.17212812	3.2006253	21	—	—
47943 2000 HS_{77}	13.6	X	34.34060	129.04762	330.32215	8.26771	0.0423445	0.17750144	3.1357020	21	1 2.7	17.9
47944 2000 JK_{12}	13.8	X	171.22394	242.44670	127.61719	2.51734	0.1723193	0.17987332	3.1080755	21	3 9.8	18.8
47945 2000 JY_{18}	13.3	X	70.25929	257.79215	164.44144	22.94814	0.1362572	0.17321458	3.1872277	21	1 13.7	17.7
47946 2000 JB_{52}	12.7	X	20.23046	204.75023	247.68610	21.11297	0.0641512	0.17083952	3.2166995	21	—	—
47947 2000 JT_{72}	14.0	X	344.21263	272.99784	200.16343	21.19630	0.0603446	0.22268005	2.6957638	21	—	—
47948 2000 KD_{32}	13.6	X	135.83867	167.37021	198.20947	17.68172	0.0914313	0.17260765	3.1946946	21	1 19.4	18.6
47949 2000 KW_{34}	13.8	X	217.64188	101.80430	197.48241	3.95010	0.1475665	0.17328552	3.1863577	21	1 25.9	19.1
47950 2000 MP	15.4	X	164.51480	248.82838	247.90556	4.26726	0.2019409	0.23523998	2.5989343	21	8 1.9	19.9
47951 2000 OS_{15}	14.3	X	206.46850	195.37977	295.06257	12.09803	0.0876399	0.23894844	2.5719740	21	9 3.4	18.2
47952 2000 OM_{16}	14.6	X	138.33275	85.20111	301.81998	1.79172	0.1721687	0.26111005	2.4243035	21	2 15.6	17.8
47953 2000 QJ_{27}	15.0	X	135.90279	314.17857	27.73406	1.99169	0.0904831	0.20654629	2.8343781	21	—	—
47954 2000 QF_{40}	15.8	X	193.53533	308.25969	142.32003	7.19910	0.1141938	0.27604876	2.3360323	21	7 2.7	19.3
47955 2000 QZ_{73}	12.0	X	311.71322	99.24211	218.33116	3.24025	0.0682331	0.08555456	5.1008272	21	6 12.1	18.6
47956 2000 QS_{103}	12.0	X	320.87705	297.33134	27.09896	9.68061	0.0679860	0.08465677	5.1368267	21	7 2.2	18.7
47957 2000 QN_{116}	11.7	X	298.79060	154.59842	153.77171	7.57959	0.0857799	0.08128680	5.2778378	21	5 16.5	18.5
47958 2000 QV_{142}	15.5	X	355.60493	313.09171	21.89730	7.09170	0.1375266	0.28077345	2.3097520	21	9 23.5	17.3
47959 2000 QP_{168}	12.3	X	328.70459	15.08420	291.15711	6.02908	0.0670763	0.08541698	5.1063027	21	6 20.8	18.8
47960 2000 RS_{54}	14.8	X	76.30999	319.45698	316.98174	10.39638	0.1903377	0.28218244	2.3020569	21	11 5.0	18.3
47961 2000 RR_{69}	15.4	X	96.62369	319.29523	136.99812	7.26559	0.0833749	0.26089073	2.4256620	21	3 15.2	18.3
47962 2000 RU_{69}	11.9	X	248.04610	3.84838	19.44837	20.09617	0.0905043	0.08136516	5.2744484	21	6 7.6	19.3
47963 2000 SO_{56}	11.9	X	326.50990	105.33339	185.61667	13.23769	0.0297710	0.08161728	5.2635810	21	6 4.6	18.9
47964 2000 SG_{131}	12.0	X	269.40434	99.13020	259.36386	14.00421	0.1419198	0.08293711	5.2075898	21	5 30.5	19.0
47965 2000 SP_{148}	15.3	X	265.15945	30.47204	279.50392	1.27448	0.2024346	0.26575415	2.3959772	21	3 7.6	18.8
47966 2000 SE_{261}	16.5	X	50.91657	71.86002	199.64503	22.00353	0.0795741	0.37128193	1.9171974	21	9 22.4	18.5
47967 2000 SL_{298}	11.9	X	13.28272	4.87050	254.72341	6.45382	0.1155041	0.08277980	5.2141854	21	6 27.1	18.2
47968 2000 TZ_{55}	15.6	X	243.18777	327.07180	87.66285	23.66570	0.0905821	0.36741471	1.9306269	21	7 14.6	17.8
47969 2000 TG_{64}	11.9	X	240.27153	277.83636	110.47159	16.91415	0.0558196	0.08107507	5.2870226	21	6 14.2	19.1
47970 2000 UR_{62}	15.6	X	290.03800	315.95271	346.67322	5.91360	0.1224935	0.26601559	2.3944071	21	4 2.7	18.8
47971 2000 VO_{4}	14.7	X	239.43896	21.50010	80.47685	6.82607	0.2322569	0.18032816	3.1028469	21	8 24.1	19.7
47972 2000 VW_{15}	14.4	X	324.16620	303.37846	98.10431	4.65643	0.1116135	0.18466853	3.0540358	21	10 15.6	18.1
47973 2000 VL_{46}	15.6	X	72.85041	1.73514	321.07704	5.37935	0.1510390	0.28585305	2.2823075	21	—	—
47974 2000 WN_{23}	15.7	X	301.38928	158.57646	169.16379	6.90960	0.1504935	0.26883367	2.3776446	21	5 22.9	18.6
47975 2000 WE_{26}	15.8	X	204.68874	308.81491	258.86943	4.98043	0.1161018	0.28295688	2.2978546	21	12 19.8	18.9
47976 2000 WU_{88}	15.6	X	86.87357	180.32485	34.46088	6.22861	0.1070888	0.31159630	2.1548044	21	8 24.5	18.2
47977 2000 WC_{154}	14.6	X	28.17556	339.02988	337.83895	9.70777	0.1112374	0.18424553	3.0587084	21	10 1.9	18.6
47978 2000 WJ_{166}	14.4	X	22.12790	167.66790	221.73013	9.69228	0.0373421	0.19085464	2.9876811	21	12 18.7	18.6
47979 2000 WD_{179}	13.9	X	179.35012	350.32190	150.76880	24.03412	0.1494072	0.21712984	2.7415092	21	8 21.3	18.4
47980 2000 WM_{179}	15.1	X	65.06123	351.48157	179.00842	7.85090	0.0720717	0.26021636	2.4298510	21	5 9.8	17.9
47981 2000 WG_{183}	14.9	X	86.00426	219.11953	213.98645	1.54368	0.0316420	0.20397044	2.8581909	21	1 29.8	18.7
47982 2000 WQ_{187}	14.1	X	66.69770	267.80538	338.75301	13.49774	0.1199497	0.17968412	3.1102569	21	8 30.9	18.4
47983 2000 XX_{13}	15.1	X	200.35194	91.59670	9.32131	19.30195	0.1078009	0.35769031	1.9654618	21	8 6.1	18.0
47984 2000 XE_{20}	15.2	X	45.62242	276.07727	318.23692	6.92697	0.0646832	0.26728271	2.3868336	21	7 9.9	17.9
47985 2000 XV_{41}	14.1	X	238.12543	242.31333	295.58396	28.78891	0.3152880	0.23153903	2.6265555	21	11 9.5	18.8
47986 2000 YN_{3}	15.7	X	253.14612	343.32749	271.11997	3.93579	0.1156552	0.29619818	2.2288515	21	—	—
47987 2000 YY_{8}	15.3	X	45.10811	126.41483	260.82393	2.71457	0.1157548	0.23752565	2.5822346	21	—	—
47988 2000 YV_{25}	15.0	X	195.19392	323.70547	51.80504	3.81681	0.0470642	0.20677059	2.8323279	21	4 2.7	19.1
47989 2000 YD_{35}	15.5	X	282.07711	87.26319	137.11835	3.04650	0.0834559	0.28745471	2.2738218	21	—	—
47990 2000 YV_{68}	16.1	X	102.80547	12.81564	129.31120	3.53222	0.0881968	0.30232491	2.1986365	21	5 24.3	18.6
47991 2000 YK_{73}	15.2	X	200.43568	191.68005	174.76300	4.07844	0.1102867	0.20975968	2.8053564	21	3 27.1	19.4
47992 2000 YY_{103}	15.5	X	168.68348	144.47646	54.17115	3.28905	0.1623717	0.26869827	2.3784433	21	10 26.7	19.1
47993 2000 YM_{105}	15.0	X	35.66670	238.58206	14.88223	3.39337	0.2156747	0.25616386	2.4554107	21	8 14.8	17.2
47994 2000 YN_{118}	15.4	X	42.67229	121.74478	86.93860	6.62713	0.1327536	0.25500031	2.4628743	21	6 4.6	17.9
47995 2000 YE_{133}	13.4	X	249.51655	84.37857	161.63473	10.00157	0.0758268	0.18728258	3.0255509	21	—	—
47996 2000 YY_{139}	14.9	X	161.44791	253.55483	355.25120	22.75682	0.1788674	0.27615777	2.3354175	21	12 20.9	19.2
47997 2001 AD_{20}	15.5	X	67.13117	176.87523	187.63515	3.66934	0.0953630	0.23766372	2.5812345	21	—	—
47998 2001 AZ_{44}	15.5	X	157.20489	106.42972	97.30869	3.20037	0.1459180	0.26933538	2.3746910	21	10 23.7	19.1
47999 2001 BC_{9}	15.6	X	89.02672	223.22151	3.74251	5.36305	0.1678456	0.26362030	2.4088892	21	9 15.4	18.8
48000 2001 BX_{37}	16.2	X	179.18101	41.65334	201.87039	7.16066	0.1014702	0.27920515	2.3183933	21	—	—