Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52001 2001 UO_{30}	13.6	X	117.87539	28.03325	103.20356	9.94322	0.1183040	0.17924398	3.1153463	21	6 7.5	18.2
52002 2001 UT_{30}	13.5	X	355.14311	232.07349	74.63086	11.39043	0.0955529	0.18983928	2.9983247	21	8 1.4	17.3
52003 2001 VB_{77}	12.7	X	40.15351	112.97856	43.39112	17.40915	0.1690931	0.17440843	3.1726664	21	4 5.6	16.5
52004 2001 YH_{2}	13.7	X	309.23816	275.40721	84.81507	9.75914	0.1051855	0.19138684	2.9821398	21	7 28.8	17.5
52005 Maik	14.0	X	129.58531	73.70207	163.89807	20.47385	0.1449843	0.27980875	2.3150579	21	11 13.4	18.0
52006 2002 EK_{31}	13.8	X	226.56725	224.74582	220.23325	16.10316	0.2462831	0.23261058	2.6184829	21	7 15.9	18.5
52007 2002 EQ_{47}	13.4	X	177.02473	53.35383	348.40931	15.16874	0.2230434	0.11177876	4.2680535	21	4 19.2	20.4
52008 Johnnaka	14.1	X	101.59418	130.38668	148.87991	12.48699	0.1260215	0.17871267	3.1215178	21	11 21.5	19.1
52009 2002 EU_{146}	15.3	X	125.94423	265.01949	144.97557	2.70712	0.0646054	0.20355864	2.8620443	21	2 25.7	19.1
52010 2002 JA_{59}	15.3	X	36.92080	229.36695	25.81164	2.16191	0.1793609	0.21237642	2.7822651	21	8 9.9	18.4
52011 2002 LW_{19}	15.1	X	313.44721	20.83704	279.03818	8.50504	0.2485020	0.25425202	2.4677042	21	4 9.3	18.3
52012 2002 LQ_{55}	13.8	X	177.57469	59.93628	210.35452	21.53125	0.1237908	0.18004067	3.1061492	21	—	—
52013 2002 LJ_{59}	14.4	X	19.38617	179.16861	182.57856	15.29749	0.2039979	0.21427261	2.7658266	21	12 9.4	18.0
52014 2002 NZ_{13}	16.0	X	10.20634	345.89898	284.70245	1.58394	0.1517998	0.25782582	2.4448475	21	7 7.8	17.9
52015 2002 NG_{17}	14.7	X	30.19953	231.03192	169.43681	25.11260	0.2668411	0.27562742	2.3384124	21	—	—
52016 2002 NO_{18}	13.0	X	58.82096	219.85621	194.55922	5.64383	0.2532252	0.12375620	3.9880269	21	1 14.2	17.8
52017 2002 NB_{27}	16.2	X	23.11607	147.09085	164.10543	1.89739	0.2224758	0.26211768	2.4180865	21	10 19.5	18.5
52018 2002 NO_{27}	14.8	X	202.87234	334.28086	328.42287	2.79809	0.1803666	0.18160427	3.0882943	21	1 17.8	19.9
52019 2002 NO_{32}	14.8	X	133.24115	80.64264	274.96348	10.96058	0.1601860	0.22909968	2.6451668	21	1 5.4	18.6
52020 2002 NM_{33}	14.6	X	154.43934	359.20435	294.25990	13.08076	0.1562145	0.22718813	2.6599836	21	—	—
52021 2002 NK_{39}	15.3	X	154.76834	195.62731	200.72305	15.18255	0.1705512	0.23620304	2.5918651	21	3 17.4	19.4
52022 2002 NQ_{52}	16.6	X	150.72892	138.83252	120.80619	3.09178	0.2079047	0.27739127	2.3284890	21	12 23.9	20.3
52023 2002 OH_{3}	14.0	X	176.19877	111.57353	235.45585	8.17038	0.0681694	0.18230408	3.0803859	21	2 6.0	18.7
52024 2002 OH_{4}	13.8	X	220.31478	99.64570	268.65252	8.99025	0.1172869	0.18998779	2.9967620	21	4 15.6	18.7
52025 2002 OR_{17}	14.1	X	26.39132	211.17737	266.81050	7.98721	0.0419131	0.18213304	3.0823140	21	1 11.7	18.2
52026 2002 OA_{24}	13.9	X	248.17969	217.82371	276.59152	11.72452	0.0268845	0.21015608	2.8018276	21	11 5.7	17.9
52027 2002 OB_{24}	13.5	X	164.98463	0.43116	343.86395	20.64148	0.2883074	0.17846292	3.1244294	21	2 13.5	19.1
52028 2002 PT_{29}	15.2	X	113.57963	143.32247	289.19238	4.32331	0.2390536	0.23753707	2.5821519	21	3 27.9	18.9
52029 2002 PN_{32}	15.4	X	65.88246	9.62736	303.28571	6.34685	0.1320564	0.26929925	2.3749034	21	12 5.6	18.7
52030 Maxvasile	15.8	X	350.46645	226.90378	140.01974	4.74478	0.1367703	0.26348465	2.4097158	21	10 30.0	18.1
52031 2002 PU_{35}	16.1	X	255.09059	91.00343	237.32826	0.39940	0.0866604	0.19417665	2.9535073	21	4 8.2	20.3
52032 2002 PK_{37}	15.3	X	89.65208	21.64038	334.39637	9.07543	0.2788848	0.22243977	2.6977048	21	—	—
52033 2002 PT_{41}	16.2	X	49.27582	234.31361	118.06409	2.10292	0.2104670	0.26821578	2.3812948	21	—	—
52034 2002 PX_{42}	14.5	X	297.83697	227.44195	330.57694	13.17370	0.0850723	0.23284969	2.6166900	21	—	—
52035 2002 PS_{43}	13.9	X	355.71364	277.90598	185.12846	29.49887	0.3908360	0.21682875	2.7440466	21	—	—
52036 2002 PV_{46}	15.9	X	185.92084	353.75300	333.92507	1.04471	0.2392488	0.28562734	2.2835098	21	1 21.4	19.6
52037 2002 PR_{47}	14.7	X	272.35724	140.17242	183.96813	15.70120	0.1086623	0.19478266	2.9473781	21	4 22.3	19.0
52038 2002 PX_{48}	14.3	X	188.45298	342.52791	311.24329	13.43394	0.1629620	0.23077052	2.6323835	21	—	—
52039 2002 PB_{59}	14.7	X	149.36331	358.35236	334.79885	12.90067	0.2020465	0.22996769	2.6385065	21	1 2.6	18.9
52040 2002 PJ_{61}	15.8	X	228.04844	81.21114	233.31492	1.37086	0.1523718	0.23878795	2.5731264	21	2 13.5	20.0
52041 2002 PT_{61}	15.2	X	292.88927	267.29827	165.47579	7.62616	0.0356455	0.26338624	2.4103160	21	10 28.9	18.1
52042 2002 PH_{63}	15.0	X	339.09439	137.34943	319.78720	12.83609	0.0657536	0.22494986	2.6775992	21	—	—
52043 2002 PM_{75}	15.8	X	192.70879	65.56142	328.68158	2.11315	0.0973080	0.24276725	2.5449308	21	4 18.6	19.5
52044 2002 PN_{75}	16.0	X	120.92572	154.52509	141.19743	5.84518	0.2285674	0.27324247	2.3519996	21	—	—
52045 2002 PE_{80}	14.8	X	157.47817	71.12793	245.00458	13.30818	0.1101870	0.22946913	2.6423268	21	—	—
52046 2002 PH_{83}	16.4	X	210.52646	210.73198	119.49078	3.00912	0.2015520	0.29167597	2.2518301	21	2 11.8	20.0
52047 2002 PC_{85}	14.5	X	171.07795	247.99722	86.76256	3.04573	0.1571437	0.18100083	3.0951545	21	1 27.0	19.4
52048 2002 PL_{92}	14.4	X	137.10550	268.82421	113.90700	9.94730	0.1094781	0.18253513	3.0777859	21	2 15.7	19.0
52049 2002 PL_{95}	16.1	X	106.54358	131.27404	120.47093	3.14983	0.1721019	0.26973564	2.3723412	21	11 6.1	19.7
52050 2002 PV_{96}	14.9	X	212.18148	194.92267	133.32870	14.86432	0.1105194	0.23926914	2.5696753	21	2 17.3	18.8
52051 2002 PA_{97}	15.4	X	339.80739	71.75077	354.48588	6.55792	0.0639321	0.27080102	2.3661150	21	12 30.4	18.2
52052 2002 PJ_{115}	14.6	X	53.94435	148.94429	182.93608	14.62734	0.2164105	0.21782740	2.7356532	21	12 18.3	18.8
52053 2002 PQ_{119}	14.9	X	0.87509	261.48853	165.57767	10.98219	0.1657089	0.22056118	2.7130012	21	—	—
52054 2002 PB_{121}	15.1	X	89.31908	173.57611	185.41242	10.94001	0.0828935	0.22505741	2.6767461	21	—	—
52055 2002 PR_{126}	16.5	X	177.14973	210.74680	70.43027	3.87742	0.2133635	0.28229096	2.3014669	21	—	—
52056 2002 PO_{130}	16.2	X	160.26923	338.84020	327.01446	3.27584	0.2454511	0.28226335	2.3016170	21	—	—
52057 Clarkhowell	14.8	X	151.06673	9.32243	328.17543	9.41001	0.1005065	0.23184479	2.6242457	21	—	—
52058 2002 PQ_{132}	15.9	X	39.42709	333.16158	348.59217	0.99974	0.1946079	0.26727669	2.3868694	21	11 23.6	18.7
52059 2002 PH_{133}	15.6	X	329.01542	321.40278	336.43816	1.58902	0.1687645	0.25419488	2.4680741	21	5 20.9	18.0
52060 2002 QJ_{7}	14.4	X	222.14696	105.29058	338.71314	12.36034	0.1138970	0.25702456	2.4499260	21	7 29.1	18.0
52061 2002 QR_{9}	14.9	X	162.27662	107.20005	268.31585	1.85465	0.0983211	0.18439703	3.0570328	21	3 1.3	19.5
52062 2002 QL_{12}	14.9	X	260.26595	209.65691	175.46316	8.08770	0.1886340	0.20074400	2.8887348	21	6 13.1	19.4
52063 2002 QS_{18}	15.2	X	244.09975	161.02126	352.03273	10.01722	0.1714623	0.27018010	2.3697388	21	11 12.3	18.3
52064 2002 QH_{20}	14.1	X	243.63517	299.89836	313.66604	8.40605	0.0369052	0.17868411	3.1218504	21	1 3.7	18.7
52065 2002 QA_{23}	15.3	X	314.75855	9.27571	330.47884	5.98205	0.1743897	0.25628150	2.4546592	21	6 27.9	17.8
52066 2002 QF_{27}	16.5	X	68.41604	127.88278	115.92986	3.59102	0.1698411	0.26121933	2.4236273	21	9 14.2	19.5
52067 2002 QE_{36}	13.8	X	128.78280	1.45894	342.42527	8.90850	0.0982237	0.17426839	3.1743657	21	—	—
52068 2002 QX_{40}	12.8	X	97.63043	299.76027	87.28541	6.37504	0.2793148	0.12545278	3.9519902	21	2 8.5	18.5
52069 2002 QJ_{41}	16.1	X	179.80881	359.69560	345.12153	7.38932	0.1859614	0.28973397	2.2618811	21	2 3.7	19.6
52070 2002 QP_{41}	14.9	X	180.06709	331.97199	12.09002	1.37595	0.1979285	0.18504683	3.0498721	21	2 15.5	19.9
52071 2002 QX_{41}	14.2	X	4.13351	332.69073	72.84491	2.20312	0.1320191	0.16764912	3.2573808	21	12 18.9	18.2
52072 2002 QC_{45}	15.5	X	70.51649	35.45966	302.42758	1.08164	0.0899136	0.21939786	2.7225830	21	12 28.3	19.4
52073 2002 QD_{45}	15.4	X	161.64115	27.30097	253.06583	0.75329	0.1194941	0.22579724	2.6708959	21	—	—
52074 2002 RJ_{2}	16.4	X	187.82983	127.66631	164.09385	3.13836	0.2320215	0.28344672	2.2952064	21	—	—
52075 2002 RL_{7}	13.9	X	109.12835	234.89550	221.04451	15.29459	0.1603770	0.23804912	2.5784477	21	4 11.9	17.5
52076 2002 RE_{29}	14.3	X	26.58545	356.48445	15.91263	9.77245	0.3179518	0.21417876	2.7666345	21	—	—
52077 2002 RJ_{30}	14.3	X	8.52035	209.09374	326.95337	12.72046	0.1551191	0.23833151	2.5764106	21	2 10.1	16.8
52078 2002 RA_{34}	15.0	X	257.20271	296.83707	335.68766	11.81103	0.0887436	0.23711512	2.5852143	21	1 28.5	18.8
52079 2002 RU_{61}	14.1	X	154.98606	212.61337	119.74720	4.30744	0.2260959	0.12349003	3.9937552	21	1 22.4	20.5
52080 2002 RZ_{62}	15.4	X	110.73261	282.98055	50.80962	4.72129	0.2033079	0.27367052	2.3495465	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52081 2002 RM_{71}	15.9	X	106.06113	347.20969	252.54614	5.47006	0.0932448	0.26411136	2.4059023	21	10 10.7	19.4
52082 2002 RU_{87}	15.8	X	43.54824	290.88539	14.95565	2.64344	0.2272238	0.26297642	2.4128196	21	11 11.6	18.9
52083 2002 RQ_{88}	16.5	X	217.13364	243.81645	147.53881	3.35207	0.1236088	0.24683061	2.5169236	21	5 11.8	20.3
52084 2002 RC_{93}	14.1	X	5.93467	317.15573	229.13360	9.10853	0.1225533	0.18692088	3.0294527	21	3 1.3	17.9
52085 2002 RC_{102}	15.0	X	208.70680	310.43072	45.71001	3.74138	0.2456006	0.23782899	2.5800385	21	3 20.1	19.5
52086 2002 RY_{108}	15.6	X	66.84918	31.74988	236.92681	8.23385	0.2198039	0.21020756	2.8013701	21	10 12.9	19.8
52087 2002 RH_{111}	14.1	X	189.03726	306.90084	348.02961	12.54547	0.1763091	0.22797682	2.6538452	21	—	—
52088 2014 P–L	15.0	X	192.41064	338.66160	357.00138	7.72673	0.1329295	0.28319845	2.2965477	21	2 2.5	18.4
52089 2027 P–L	15.7	X	351.03949	110.47332	280.53055	1.50486	0.2088568	0.25979561	2.4324738	21	12 11.9	17.8
52090 2046 P–L	15.8	X	146.58852	96.51567	288.56610	2.91164	0.1617803	0.23414262	2.6070482	21	2 23.9	19.8
52091 2075 P–L	15.9	X	138.96159	82.65833	353.67659	3.80763	0.0991357	0.23597179	2.5935582	21	4 14.5	19.7
52092 2083 P–L	15.3	X	177.85933	199.43145	231.98342	3.14276	0.2299115	0.23689155	2.5868406	21	5 25.2	19.8
52093 2088 P–L	15.2	X	318.73843	121.87703	309.34203	3.35567	0.0431586	0.21167155	2.7884384	21	11 19.7	18.9
52094 2177 P–L	15.4	X	204.08767	197.16167	246.74119	1.28162	0.2515390	0.18987867	2.9979100	21	6 30.1	20.6
52095 2191 P–L	14.7	X	172.85503	94.27911	357.87659	11.00237	0.0452386	0.18979240	2.9988185	21	6 11.7	19.3
52096 2221 P–L	17.0	X	359.95870	72.89872	236.53082	3.58121	0.1237685	0.30587110	2.1816099	21	8 18.8	18.7
52097 2565 P–L	15.0	X	45.07329	295.52003	23.45028	4.83430	0.0216526	0.25947668	2.4344666	21	10 29.9	18.1
52098 2568 P–L	14.5	X	328.88494	27.87134	5.85804	3.35314	0.0991927	0.21033117	2.8002725	21	10 14.9	17.6
52099 2589 P–L	13.9	X	22.15960	19.81264	145.20504	3.23050	0.1506484	0.23488171	2.6015764	21	2 21.2	16.4
52100 2591 P–L	14.9	X	315.83920	232.50340	179.57366	4.89216	0.1250102	0.21031346	2.8004296	21	10 17.9	18.0
52101 2598 P–L	14.5	X	193.54218	151.47337	30.54563	4.68117	0.0096504	0.21134670	2.7912950	21	11 2.6	18.2
52102 2616 P–L	15.8	X	245.78123	42.26161	31.35083	3.92579	0.0118886	0.25703531	2.4498577	21	8 26.1	18.8
52103 2658 P–L	15.4	X	227.85796	290.03176	17.92787	7.01799	0.1518394	0.28393301	2.2925851	21	2 2.3	19.0
52104 2660 P–L	14.5	X	276.03033	134.75005	178.45374	2.69903	0.1331475	0.18896090	3.0076092	21	4 8.6	18.8
52105 2669 P–L	16.3	X	85.43085	233.46873	173.09994	5.87069	0.1654249	0.28080771	2.3095642	21	—	—
52106 2673 P–L	15.0	X	39.26065	279.49068	100.41777	1.79750	0.0814425	0.21316357	2.7754115	21	—	—
52107 2703 P–L	16.0	X	63.64629	266.85509	184.80661	6.57131	0.1002442	0.28182588	2.3039982	21	1 7.7	18.3
52108 2830 P–L	15.1	X	163.28438	307.62670	142.47543	2.79533	0.2263539	0.18885051	3.0087812	21	6 6.8	20.2
52109 2863 P–L	15.0	X	214.14186	353.44694	171.33273	5.25935	0.0362541	0.21142367	2.7906175	21	11 5.1	18.9
52110 3007 P–L	15.3	X	202.98006	126.99158	218.38151	13.46546	0.1019325	0.23550525	2.5969823	21	2 23.6	19.6
52111 3020 P–L	13.6	X	292.09986	62.59197	286.34919	8.68420	0.1138475	0.19124020	2.9836640	21	6 15.8	17.5
52112 3064 P–L	15.5	X	174.41005	39.48888	325.04596	6.62005	0.1286474	0.28350438	2.2948952	21	2 17.8	18.6
52113 3100 P–L	13.8	X	130.17189	253.38248	298.15564	9.47051	0.0450390	0.19217141	2.9740176	21	8 25.5	18.1
52114 3118 P–L	15.2	X	160.66470	243.51125	293.01865	7.65120	0.0509665	0.25784297	2.4447391	21	9 15.8	18.7
52115 3512 P–L	13.5	X	148.36059	231.21669	291.85180	10.60697	0.1047819	0.19086511	2.9875718	21	8 13.9	18.3
52116 4032 P–L	14.6	X	102.01204	125.98481	326.29632	4.95056	0.1287538	0.28363842	2.2941722	21	3 17.1	17.1
52117 4059 P–L	15.7	X	216.43195	103.28492	244.07978	1.44635	0.1737102	0.23623456	2.5916346	21	3 14.5	20.0
52118 4103 P–L	16.1	X	324.05277	124.84442	312.93809	2.33591	0.1634794	0.26022059	2.4298247	21	12 21.1	18.2
52119 4105 P–L	15.6	X	123.03864	205.04654	228.84251	4.04724	0.2490081	0.23454686	2.6040519	21	4 11.5	19.6
52120 4106 P–L	14.2	X	126.35096	287.91384	197.05636	12.07959	0.0624146	0.18937632	3.0032093	21	6 2.4	18.7
52121 4117 P–L	14.9	X	66.05202	341.31375	353.69152	3.55934	0.1027009	0.21286801	2.7779800	21	12 19.9	18.9
52122 4128 P–L	13.8	X	158.24617	320.37157	190.05740	10.29033	0.0506284	0.19131769	2.9828584	21	8 6.9	18.3
52123 4217 P–L	15.9	X	170.02875	30.11894	290.42906	0.75866	0.0956034	0.23297156	2.6157774	21	—	—
52124 4272 P–L	15.8	X	162.31496	192.28068	235.24114	4.24479	0.2426867	0.23612612	2.5924279	21	5 8.1	20.1
52125 4274 P–L	16.0	X	356.10343	248.41511	280.34358	2.14762	0.0743715	0.28266814	2.2994191	21	1 7.4	18.3
52126 4284 P–L	15.9	X	156.60952	114.58632	217.56380	5.63438	0.1387934	0.28149110	2.3058246	21	—	—
52127 4681 P–L	14.5	X	51.32562	190.36412	356.73759	10.22082	0.0383975	0.18915911	3.0055079	21	5 8.3	18.7
52128 4693 P–L	15.6	X	234.28236	297.42475	339.06191	2.36707	0.1628707	0.28306052	2.2972937	21	—	—
52129 4796 P–L	16.6	X	113.02047	192.60888	179.41931	2.11580	0.2276454	0.28093397	2.3088721	21	—	—
52130 4882 P–L	14.5	X	329.22369	192.02711	20.42317	10.02822	0.0529487	0.23515951	2.5995271	21	2 15.5	18.0
52131 4892 P–L	14.9	X	227.43211	151.19799	167.69339	9.69940	0.0952573	0.18680166	3.0307415	21	2 26.6	19.5
52132 5034 P–L	15.0	X	169.85238	215.75918	210.60009	10.61965	0.2530856	0.23640295	2.5904037	21	5 13.9	19.6
52133 6007 P–L	14.7	X	223.35771	326.90748	208.06434	6.36045	0.1679625	0.21239019	2.7821449	21	11 12.2	18.8
52134 6059 P–L	13.9	X	319.54589	201.66445	221.96120	3.61737	0.0514037	0.21167526	2.7884058	21	11 11.8	17.5
52135 6070 P–L	14.3	X	314.89666	92.13773	328.07320	2.25129	0.0961847	0.21106405	2.7937865	21	10 27.6	17.6
52136 6076 P–L	14.9	X	277.85077	339.94476	2.46143	2.88929	0.2096424	0.22300084	2.6931780	21	5 3.6	18.9
52137 6080 P–L	16.0	X	347.09461	333.21788	6.88312	2.28854	0.1925939	0.25807849	2.4432515	21	9 9.7	17.8
52138 6131 P–L	14.9	X	270.94678	64.22873	205.55727	3.60688	0.2588121	0.23651808	2.5895630	21	1 22.1	19.3
52139 6192 P–L	14.4	X	352.93887	76.92776	185.27113	9.26568	0.0851853	0.19034332	2.9930292	21	5 27.6	18.2
52140 6603 P–L	15.7	X	332.87278	244.29082	153.41301	2.57451	0.2411484	0.21053831	2.7984355	21	10 26.6	17.9
52141 6605 P–L	15.3	X	132.18040	259.32327	150.68946	3.68144	0.1909488	0.23461494	2.6035481	21	3 16.9	19.2
52142 6610 P–L	13.9	X	80.90662	55.79930	359.70766	10.34895	0.1198171	0.16888540	3.2414648	21	1 23.7	18.3
52143 6635 P–L	15.7	X	4.45743	171.70988	134.88333	3.09361	0.2156732	0.25801101	2.4436775	21	8 29.9	17.4
52144 6759 P–L	15.6	X	230.54422	166.11685	85.68604	2.58123	0.1075714	0.28168578	2.3047621	21	—	—
52145 6832 P–L	15.4	X	137.63384	201.10498	37.86267	1.72084	0.1546111	0.26131703	2.4230232	21	11 15.8	19.1
52146 7061 P–L	15.3	X	342.41148	179.09669	213.08091	5.57152	0.1278913	0.25968608	2.4331578	21	11 18.0	17.6
52147 9061 P–L	15.5	X	238.74811	350.63661	317.34961	3.36394	0.2079976	0.23602874	2.5931410	21	2 13.8	19.9
52148 9506 P–L	14.6	X	282.04337	247.92202	15.57767	7.04655	0.1647707	0.23647374	2.5898867	21	2 5.3	18.5
52149 1074 T–1	14.3	X	201.27668	287.46537	348.50676	6.47759	0.1348562	0.17119939	3.2121901	21	—	—
52150 1097 T–1	15.4	X	88.58305	278.92016	216.68933	6.20786	0.1395494	0.23817072	2.5775700	21	5 6.9	18.4
52151 1180 T–1	15.4	X	242.13052	120.01313	313.52152	4.02434	0.0855415	0.30153335	2.2024826	21	8 10.1	18.0
52152 1296 T–1	15.8	X	108.25964	285.68218	195.01425	12.14031	0.1695136	0.23857767	2.5746381	21	5 18.3	19.5
52153 2043 T–1	14.8	X	211.92079	247.40323	164.48068	3.22652	0.2354069	0.24118224	2.5560686	21	5 28.5	19.1
52154 2152 T–1	14.3	X	338.72430	293.21009	44.66282	5.19515	0.0881109	0.20304028	2.8669135	21	8 17.9	17.8
52155 2236 T–1	14.8	X	39.12577	70.37829	71.59101	2.29099	0.0585361	0.23537870	2.5979130	21	2 19.7	17.8
52156 4100 T–1	15.4	X	261.66337	34.06505	108.50791	3.41217	0.1351163	0.26751787	2.3854346	21	12 2.9	17.9
52157 4126 T–1	14.5	X	140.74387	49.60245	22.42047	5.52284	0.1525865	0.17953715	3.1119539	21	4 21.6	19.4
52158 4175 T–1	15.9	X	134.06945	218.97543	37.21213	1.71400	0.1388345	0.26539366	2.3981463	21	12 4.0	19.5
52159 4178 T–1	15.5	X	206.47877	157.31224	59.15436	3.25475	0.1670365	0.26757039	2.3851224	21	12 23.9	18.7
52160 4229 T–1	15.9	X	104.04503	83.27158	163.33039	5.23802	0.1804825	0.26320938	2.4113956	21	10 28.5	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52161 4302 *T–1*	15.0	*X*	65.73032	127.34974	52.82156	5.41572	0.0792065	0.23876870	2.5732646	21	5 25.1	18.2
52162 4357 *T–1*	14.1	*X*	18.67180	27.86384	126.87260	2.09830	0.1235611	0.17612925	3.1519675	21	2 16.3	17.7
52163 1004 *T–2*	15.2	*X*	185.07653	20.10047	356.81963	6.90656	0.0459348	0.23840413	2.5758873	21	3 18.5	18.6
52164 1012 *T–2*	15.7	*X*	143.23047	225.49683	186.77832	12.89655	0.2232202	0.23723518	2.5843420	21	4 2.3	19.8
52165 1099 *T–2*	16.2	*X*	109.36291	346.85432	319.48504	1.39312	0.1711413	0.27215241	2.3582758	21	—	—
52166 1184 *T–2*	15.3	*X*	169.26406	279.06445	168.91443	4.30490	0.0526975	0.24128926	2.5553127	21	6 2.3	18.9
52167 1220 *T–2*	14.1	*X*	68.52011	167.18850	247.78600	0.32357	0.1747167	0.17229367	3.1985747	21	1 7.8	17.8
52168 1305 *T–2*	15.4	*X*	96.21560	354.51623	0.22258	6.87492	0.1319345	0.27327300	2.3518244	21	—	—
52169 1494 *T–2*	15.5	*X*	332.23847	147.39425	74.17957	1.55434	0.0122356	0.23791013	2.5794518	21	3 4.9	18.9
52170 2046 *T–2*	15.9	*X*	50.70942	121.37192	298.61356	1.78204	0.1361974	0.27350247	2.3505088	21	—	—
52171 2127 *T–2*	15.3	*X*	344.98304	316.49745	325.05129	1.97220	0.0267354	0.24208823	2.5496874	21	6 10.2	18.4
52172 2166 *T–2*	14.0	*X*	30.65774	126.26492	359.83414	4.62301	0.0694682	0.17347541	3.1840321	21	1 31.6	18.1
52173 2178 *T–2*	14.9	*X*	92.30153	34.05869	226.19580	1.16159	0.0412497	0.20571879	2.8419739	21	10 9.9	18.9
52174 2183 *T–2*	14.9	*X*	235.92395	227.92802	174.59842	4.17638	0.2195600	0.24194871	2.5506675	21	6 6.9	19.0
52175 2204 *T–2*	14.5	*X*	297.87704	24.00220	38.44469	1.23802	0.1435437	0.20492331	2.8493238	21	9 28.2	17.8
52176 2233 *T–2*	14.9	*X*	345.11891	194.90599	143.53073	2.46673	0.0963717	0.20397164	2.8581796	21	8 26.9	18.1
52177 2235 *T–2*	14.8	*X*	101.26283	195.25852	174.43598	2.08794	0.1518020	0.17059735	3.2197429	21	—	—
52178 2244 *T–2*	15.3	*X*	292.94385	149.01756	173.81284	0.98194	0.1201551	0.24175017	2.5520637	21	5 9.2	18.5
52179 2270 *T–2*	15.2	*X*	19.63376	83.59802	208.55844	1.34219	0.0448007	0.20305308	2.8667929	21	8 15.2	18.8
52180 2273 *T–2*	14.5	*X*	12.89816	86.08195	7.68667	4.55407	0.1329238	0.17079288	3.2172850	21	—	—
52181 3112 *T–2*	15.7	*X*	174.21198	315.56179	20.85925	7.87059	0.2081340	0.23582448	2.5946381	21	1 29.4	20.0
52182 3130 *T–2*	13.9	*X*	191.85577	106.01527	39.92267	7.09050	0.0704474	0.20438685	2.8543074	21	9 14.6	18.2
52183 3286 *T–2*	15.8	*X*	61.67163	244.34469	154.73899	6.54757	0.1320584	0.27328320	2.3517659	21	—	—
52184 3361 *T–2*	14.2	*X*	65.42647	166.29120	83.12363	2.45238	0.0424666	0.20366079	2.8610872	21	8 23.8	18.1
52185 3370 *T–2*	15.4	*X*	172.95494	34.35589	26.65900	4.30667	0.1737546	0.23950615	2.5679798	21	5 5.7	19.7
52186 4072 *T–2*	16.5	*X*	322.46817	284.72403	34.22017	4.65507	0.1893630	0.30562337	2.1827886	21	6 3.3	18.4
52187 4125 *T–2*	14.0	*X*	83.16038	198.32857	173.02207	12.50219	0.0633145	0.16991160	3.2284002	21	—	—
52188 4142 *T–2*	15.3	*X*	212.33568	189.68761	182.27324	14.43709	0.2858098	0.23965790	2.5668957	21	4 9.8	19.9
52189 4215 *T–2*	15.6	*X*	198.24028	349.15094	71.09687	2.32321	0.1292921	0.24083773	2.5585056	21	5 28.9	19.4
52190 4241 *T–2*	14.9	*X*	8.83846	241.93510	78.71337	4.03427	0.2043102	0.20530418	2.8457988	21	9 23.9	17.7
52191 4263 *T–2*	15.9	*X*	34.14008	324.35593	101.89779	3.24704	0.1976393	0.27253745	2.3560541	21	—	—
52192 5053 *T–2*	14.3	*X*	358.78464	331.16972	278.84202	7.74212	0.1543728	0.24199869	2.5503162	21	5 8.4	16.8
52193 5209 *T–2*	14.6	*X*	177.39844	52.21231	240.87663	8.71951	0.0787116	0.17110324	3.2133933	21	—	—
52194 1149 *T–3*	13.6	*X*	231.71777	150.53836	258.36487	8.66042	0.0739654	0.15129829	3.4880287	21	6 24.2	18.9
52195 2061 *T–3*	16.4	*X*	130.09656	69.79596	227.25528	3.83691	0.2191907	0.27501014	2.3419102	21	—	—
52196 2075 *T–3*	14.3	*X*	234.28647	84.11167	300.96108	1.84855	0.1766802	0.24050008	2.5608996	21	5 16.3	18.2
52197 2373 *T–3*	14.6	*X*	132.72325	303.11378	224.27040	5.15642	0.0278260	0.19739483	2.9213183	21	7 28.7	18.8
52198 2389 *T–3*	14.3	*X*	226.49323	3.45369	10.23178	15.62475	0.1067452	0.23932185	2.5692980	21	4 24.5	18.4
52199 2465 *T–3*	15.8	*X*	73.70820	138.91490	295.27037	2.10790	0.1254049	0.27771688	2.3266686	21	1 4.6	18.0
52200 3094 *T–3*	15.2	*X*	302.27003	231.70496	30.26176	6.91883	0.0598347	0.23731896	2.5837337	21	3 13.1	18.6
52201 3098 *T–3*	15.7	*X*	182.72224	225.09709	180.81376	4.70271	0.1805106	0.23808189	2.5782111	21	4 27.5	19.8
52202 3124 *T–3*	14.8	*X*	201.38443	275.16868	162.14001	2.45957	0.0952279	0.19605105	2.9346519	21	6 25.1	19.2
52203 3160 *T–3*	15.3	*X*	164.04864	293.89702	130.48465	2.26843	0.0985609	0.23805663	2.5783935	21	4 29.0	19.0
52204 3219 *T–3*	15.0	*X*	85.70969	333.67611	194.55023	1.26141	0.0607047	0.19478679	2.9473364	21	6 6.1	18.9
52205 3247 *T–3*	16.2	*X*	115.29493	143.50873	170.62284	3.07419	0.1846738	0.27472394	2.3435364	21	—	—
52206 3326 *T–3*	15.3	*X*	133.43754	96.59008	197.54706	9.53342	0.1625308	0.27464784	2.3439693	21	—	—
52207 3403 *T–3*	14.4	*X*	298.25446	306.10574	24.20749	11.45186	0.1553895	0.24188593	2.5511088	21	5 18.1	17.7
52208 3423 *T–3*	15.6	*X*	174.48788	343.66269	102.72260	1.61854	0.1659440	0.23950031	2.5680215	21	6 8.8	19.7
52209 3495 *T–3*	16.0	*X*	232.84125	281.50575	36.37137	2.90034	0.2628258	0.23742373	2.5829736	21	2 20.3	20.5
52210 4032 *T–3*	14.9	*X*	144.46360	326.27317	54.74367	4.67969	0.1758690	0.27959187	2.3162549	21	2 14.8	18.2
52211 4049 *T–3*	15.7	*X*	101.34772	42.74289	59.52603	7.05504	0.2958502	0.23475708	2.6024970	21	5 2.9	19.4
52212 4056 *T–3*	16.0	*X*	202.43896	225.83973	43.70586	7.56772	0.1039218	0.27698443	2.3307685	21	—	—
52213 4181 *T–3*	16.0	*X*	142.13654	236.87667	102.53472	2.75880	0.2340755	0.27774403	2.3265170	21	—	—
52214 4196 *T–3*	15.2	*X*	154.44398	256.34719	148.71584	4.81088	0.0980938	0.23639897	2.5904328	21	3 25.2	19.0
52215 4213 *T–3*	16.1	*X*	70.13514	293.50277	74.58874	5.90660	0.1536481	0.27434967	2.3456673	21	—	—
52216 5014 *T–3*	14.7	*X*	125.82926	303.75641	112.46575	6.64304	0.0595633	0.28048483	2.3113362	21	2 21.6	17.5
52217 5035 *T–3*	14.3	*X*	319.52289	201.62479	62.67112	10.86477	0.0662419	0.23882236	2.5728792	21	4 10.1	17.6
52218 5050 *T–3*	15.1	*X*	76.29141	271.94956	144.89283	9.04102	0.2345374	0.27667995	2.3324782	21	—	—
52219 5071 *T–3*	15.5	*X*	151.97479	298.57216	109.80340	5.96262	0.1211933	0.28147754	2.3058987	21	3 25.5	18.7
52220 5082 *T–3*	15.4	*X*	172.08668	247.83500	108.16379	5.57275	0.1484218	0.28010987	2.3133985	21	2 7.9	18.7
52221 5103 *T–3*	15.1	*X*	115.64977	80.65662	62.46672	15.16460	0.1046611	0.23992199	2.5650117	21	6 14.7	18.8
52222 5111 *T–3*	14.6	*X*	247.41235	279.46143	48.72709	15.01642	0.1314993	0.23839160	2.5759776	21	3 29.4	18.7
52223 5158 *T–3*	15.1	*X*	71.44992	250.15526	175.26004	21.93392	0.0518110	0.23220690	2.6215167	21	—	—
52224 5602 *T–3*	14.8	*X*	129.07780	286.42213	138.52285	10.50445	0.0417690	0.19121440	2.9839324	21	3 21.4	19.1
52225 Panchenko	13.8	*X*	328.79517	22.34108	282.70450	13.13384	0.1947402	0.18476975	3.0529203	21	6 1.4	17.5
52226 Saenredam	14.6	*X*	220.46166	196.43485	152.63324	32.69325	0.0580907	0.22398880	2.6852528	21	3 29.8	18.9
52227 1975 SM_1	16.0	*X*	37.90272	219.50415	155.37532	2.99713	0.2224489	0.26084198	2.4259642	21	—	—
52228 Protos	13.6	*X*	190.02148	331.95761	48.20457	27.92399	0.1232791	0.17168325	3.2061519	21	4 15.9	18.9
52229 1978 *NN*	13.8	*X*	165.79152	318.67012	293.62497	35.08170	0.1585277	0.21534838	2.7566078	21	12 25.8	18.5
52230 1978 *NR*	15.2	*X*	154.57292	311.92677	305.61294	6.87462	0.1359002	0.26032875	2.4291517	21	12 24.8	18.9
52231 Sitnik	14.4	*X*	284.25264	221.18336	137.60877	3.97002	0.2070373	0.29461484	2.2368300	21	5 31.6	17.2
52232 1978 UY_4	16.4	*X*	237.47894	168.25655	221.88798	3.15149	0.2030040	0.29266309	2.2467638	21	5 22.5	19.8
52233 1978 UQ_5	14.1	*X*	77.04664	224.28725	212.58881	16.27837	0.0217172	0.17023611	3.2242961	21	1 24.6	19.0
52234 1978 UX_7	15.3	*X*	205.09044	190.45815	239.25643	1.74898	0.1441141	0.24618278	2.5213372	21	6 16.6	19.1
52235 1979 MW_2	14.2	*X*	266.04553	201.14619	167.44499	3.64585	0.1447006	0.18600554	3.0393832	21	6 4.4	18.8
52236 1979 MF_7	14.5	*X*	222.55082	197.65372	129.85272	7.58119	0.1253997	0.18021480	3.1041479	21	3 6.0	19.5
52237 1979 OW_2	14.4	*X*	184.87139	338.58839	290.78938	11.36787	0.2178797	0.22248461	2.6973423	21	—	—
52238 1979 OM_9	14.8	*X*	41.37494	293.88203	264.42885	10.89582	0.0981311	0.23189956	2.6238324	21	5 13.5	17.9
52239 1979 OV_{10}	15.3	*X*	105.84412	187.90725	171.02991	7.17389	0.2766699	0.22037435	2.7145344	21	—	—
52240 1980 FQ_4	16.4	*X*	36.39524	38.10240	167.81133	3.57135	0.0990178	0.29044079	2.2582099	21	5 13.2	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52241 1980 PW_2	14.9	X	133.48662	289.49428	43.10789	14.27477	0.2457373	0.22643091	2.6659105	21	—	—
52242 Michelemaoret	14.3	X	48.86490	194.87155	353.85067	12.57330	0.1897757	0.22482592	2.6785832	21	5 22.6	17.4
52243 1981 ED_3	15.1	X	79.49482	250.99725	210.87213	12.16887	0.1863916	0.17313365	3.1882208	21	3 22.8	19.4
52244 1981 EE_4	14.5	X	56.75299	271.33091	259.48830	8.12740	0.0323972	0.17433126	3.1736025	21	4 26.9	18.9
52245 1981 EP_4	14.8	X	265.61858	318.60484	209.95778	11.57678	0.0459796	0.21315606	2.7754767	21	—	—
52246 Donaldjohanson	15.5	X	25.37469	213.14168	262.81986	4.42309	0.1874308	0.26783111	2.3835743	21	—	—
52247 1981 EP_{10}	15.6	X	237.61031	296.59934	311.08754	5.89131	0.0972407	0.26458901	2.4030060	21	—	—
52248 1981 EE_{15}	15.4	X	246.20386	253.32990	283.30534	5.02953	0.0682034	0.21214183	2.7843159	21	12 23.5	19.0
52249 1981 EK_{21}	15.1	X	229.14798	260.80861	346.35907	7.47188	0.0839184	0.21545226	2.7557216	21	—	—
52250 1981 EE_{32}	15.9	X	257.32996	290.49891	231.35390	6.00093	0.0667324	0.26100830	2.4249335	21	12 30.5	18.9
52251 1981 EF_{32}	15.2	X	124.92440	353.88262	279.32043	7.73255	0.0669926	0.25862392	2.4398152	21	12 13.7	18.5
52252 1981 EJ_{35}	16.3	X	344.85935	317.71716	167.55821	5.07547	0.1791815	0.26576712	2.3958992	21	—	—
52253 1981 EZ_{35}	15.2	X	24.64048	63.42027	91.40285	0.48460	0.1362703	0.17160599	3.2071142	21	2 27.3	18.8
52254 1981 EJ_{36}	15.3	X	40.49963	18.39066	3.39578	2.07193	0.1975534	0.26218616	2.4176655	21	—	—
52255 1981 EM_{37}	15.7	X	331.31826	117.12419	262.27454	2.96434	0.1583577	0.30582649	2.1818220	21	10 15.6	17.0
52256 1981 EM_{38}	15.5	X	324.28774	166.61917	303.77228	4.20584	0.1203147	0.21388004	2.7692099	21	—	—
52257 1981 EJ_{42}	14.8	X	62.53829	348.86398	183.93355	11.33004	0.1149340	0.17461404	3.1701753	21	5 21.9	19.1
52258 1981 EE_{44}	15.2	X	49.25909	223.29344	208.05009	8.27351	0.1276415	0.21680362	2.7442585	21	—	—
52259 1981 EY_{47}	14.6	X	89.73928	312.57514	351.08306	12.77735	0.1506621	0.20989303	2.8041680	21	12 10.7	19.2
52260 Ureshino	14.1	X	187.39542	175.00089	83.11280	24.90474	0.2203869	0.26577664	2.3958420	21	—	—
52261 Izumishikibu	13.8	X	220.07231	319.72126	62.34758	14.01229	0.1529163	0.19288177	2.9667111	21	5 5.9	18.7
52262 1983 QV	14.3	X	195.31917	188.01481	171.38951	6.68442	0.1778508	0.17271583	3.1933606	21	3 17.8	19.5
52263 1985 QD_6	14.7	X	275.38126	227.12311	121.47187	5.15648	0.2956471	0.24155096	2.5534667	21	4 30.5	18.7
52264 1985 RD_2	14.0	X	137.65387	347.08521	343.32383	10.70547	0.2265785	0.25759360	2.4463167	21	—	—
52265 1985 RM_3	15.5	X	274.85324	241.38631	157.26756	3.78033	0.1692537	0.29904991	2.2146594	21	7 21.4	18.1
52266 Van Flandern	14.0	X	302.99582	229.65021	302.15136	23.72010	0.2206166	0.27633034	2.3344451	21	—	—
52267 Rotarytorino	14.8	X	53.19539	161.45783	337.27763	3.02553	0.1594103	0.22603869	2.6689936	21	3 17.9	17.4
52268 1986 WU	15.1	X	201.33292	166.47128	252.63575	8.07714	0.2203109	0.24390148	2.5370348	21	5 28.4	19.3
52269 1988 CU	14.2	X	245.93515	337.44017	139.81029	24.86837	0.2144115	0.25476876	2.4643664	21	9 29.2	18.0
52270 Noamchomsky	15.5	X	309.24169	213.82438	270.48088	5.44809	0.0891049	0.25988545	2.4319132	21	—	—
52271 Lecorbusier	13.7	X	295.66686	35.79079	357.66320	13.24415	0.1819752	0.23685327	2.5871193	21	8 16.6	16.8
52272 1988 RO_5	14.0	X	119.50579	104.60483	327.69647	10.67582	0.1796121	0.22591715	2.6699508	21	3 25.7	18.0
52273 1988 RQ_{10}	12.3	X	207.54063	268.45611	154.58897	11.72748	0.0869155	0.08296073	5.2066016	21	6 17.1	19.6
52274 1988 RG_{12}	14.9	X	150.28985	351.27450	356.47362	9.00204	0.2247011	0.22238342	2.6981605	21	1 24.9	19.3
52275 1988 RS_{12}	12.6	X	218.82288	158.87079	238.02442	3.60960	0.0633865	0.08246194	5.2275758	21	5 30.4	19.7
52276 1988 RZ_{12}	15.0	X	119.64566	167.27898	196.46883	5.46781	0.2146843	0.22081007	2.7109622	21	1 8.4	18.7
52277 1988 SE_3	14.6	X	185.46360	234.87827	85.61701	13.60417	0.1611690	0.22391270	2.6858612	21	1 17.5	19.0
52278 1988 SG_3	12.1	X	308.38729	232.39859	81.15802	19.60350	0.0877112	0.08369643	5.1760455	21	6 2.2	18.8
52279 1989 CH_3	14.8	X	359.74740	187.20208	263.85945	7.11155	0.1937709	0.21036525	2.7999701	21	—	—
52280 1989 RB	14.2	X	276.71452	325.07238	0.89630	19.73585	0.3188698	0.23977689	2.5660464	21	3 28.2	18.3
52281 1989 SJ_1	15.3	X	318.62752	268.61719	73.94500	3.71572	0.2218106	0.24313035	2.5423964	21	7 1.3	17.8
52282 1989 SO_2	16.1	X	39.41019	260.39443	85.62862	2.51941	0.1396294	0.31195868	2.1531354	21	12 27.7	18.6
52283 1989 SE_5	15.0	X	269.82546	163.63451	168.46816	4.68216	0.2153439	0.23788936	2.5796020	21	4 12.1	18.9
52284 1990 HP	15.1	X	194.18386	188.17477	32.08846	21.55497	0.0511301	0.36467229	1.9402940	21	—	—
52285 Kakurinji	15.5	X	95.92615	207.30068	130.98521	3.05221	0.2374840	0.26479962	2.4017316	21	—	—
52286 1990 QT_1	15.2	X	90.57988	198.64794	132.90369	2.94335	0.2210820	0.26312540	2.4119087	21	—	—
52287 1990 QP_4	15.5	X	167.20604	330.25363	347.57088	2.46395	0.1779767	0.26895222	2.3769459	21	—	—
52288 1990 QU_8	14.5	X	187.71641	350.35402	47.77441	1.65437	0.2056910	0.18105180	3.0945736	21	4 25.1	19.8
52289 1990 QH_9	15.3	X	112.42309	235.24240	115.18833	3.07545	0.2020461	0.26628620	2.3927847	21	—	—
52290 1990 SF	14.0	X	232.70030	266.48583	75.81455	16.45862	0.2960245	0.18080400	3.0974005	21	3 31.1	19.8
52291 Mott	14.6	X	242.72378	125.28317	260.84333	4.41560	0.1605630	0.18310682	3.0713764	21	5 30.0	19.3
52292 Kamdzhalov	14.9	X	245.78163	29.48117	6.28981	10.15798	0.1447380	0.18381333	3.0635011	21	6 14.9	19.8
52293 Mommsen	14.1	X	102.21453	71.98220	24.16589	10.89503	0.1967720	0.17405277	3.1769868	21	4 16.5	18.5
52294 Detlef	15.0	X	98.14470	89.60438	216.99621	1.81709	0.1768893	0.25983091	2.4322535	21	—	—
52295 Köppen	15.1	X	233.20085	268.38953	137.36923	5.36003	0.1857663	0.24547992	2.5261477	21	6 11.1	19.1
52296 1990 WM_3	13.9	X	183.03821	155.46690	214.62385	10.27731	0.3162033	0.17629985	3.1499338	21	3 20.1	19.7
52297 1991 CH_2	14.5	X	86.05280	284.83691	315.25938	27.87972	0.3606650	0.23786112	2.5798062	21	9 28.5	19.5
52298 1991 GM_7	14.9	X	28.92097	343.55696	211.30507	13.17821	0.1229055	0.23039777	2.6352220	21	4 19.4	17.6
52299 1991 NJ_1	15.9	X	328.19637	204.37230	120.01612	6.15965	0.2191330	0.29405941	2.2396457	21	6 21.9	17.5
52300 1991 NE_3	14.2	X	215.26588	94.23836	163.40975	7.12466	0.0595772	0.21381159	2.7698009	21	—	—
52301 Qumran	16.2	X	149.25031	186.94886	203.23436	5.40039	0.2288625	0.28006524	2.3136442	21	3 5.5	19.8
52302 1991 RL_8	14.9	X	206.22513	338.23590	21.39387	7.37054	0.1906554	0.28322763	2.2963899	21	3 18.8	18.5
52303 1991 RU_9	15.1	X	229.40135	65.21456	280.57605	1.16415	0.1669608	0.28482079	2.2878186	21	3 19.7	18.5
52304 1991 RB_{10}	14.6	X	221.81322	37.53652	300.27202	4.54919	0.1378466	0.28332079	2.2958865	21	3 2.0	18.1
52305 1991 RR_{10}	15.0	X	156.90447	21.85168	4.78967	6.79697	0.1223108	0.28036354	2.3120028	21	3 1.3	18.1
52306 1991 RF_{20}	15.3	X	92.47695	14.63530	330.19603	6.60058	0.1372471	0.27230826	2.3573759	21	—	—
52307 1991 TH_1	15.1	X	191.27435	3.20504	18.17332	22.95544	0.2231403	0.28303551	2.2974290	21	4 2.9	18.9
52308 Hanspeterröser	14.5	X	145.77426	206.60765	252.90134	3.82504	0.1583284	0.18566208	3.0431304	21	5 30.4	19.3
52309 Philnicolai	13.4	X	240.25658	261.59483	0.93664	18.24108	0.0416743	0.21174587	2.7877859	21	1 6.2	17.8
52310 1991 VJ	15.0	X	119.50171	261.86920	71.85731	22.90185	0.3394829	0.27509900	2.3414059	21	—	—
52311 1991 VK_8	14.5	X	141.19629	109.87406	50.89017	11.07863	0.0496359	0.18917021	3.0053903	21	8 6.8	19.1
52312 1991 VG_9	14.8	X	81.75514	212.89495	91.26056	3.35624	0.0942297	0.19895379	2.9060377	21	11 27.1	19.0
52313 1991 VH_9	15.5	X	31.09541	77.83998	193.58216	4.24080	0.1852434	0.29118713	2.2543496	21	8 29.2	17.5
52314 1991 XD	14.2	X	351.98747	11.86117	65.32062	22.70291	0.1011772	0.36553584	1.9372369	21	—	—
52315 1992 AM	14.6	X	109.48229	300.23566	99.91844	23.81469	0.2795783	0.27385414	2.3484961	21	2 16.4	17.9
52316 Daveslater	15.1	X	82.59056	21.57839	79.07189	28.98374	0.0654739	0.37732471	1.8966734	21	1 30.1	17.3
52317 1992 BC_1	14.3	X	51.47049	273.39085	135.43675	22.84940	0.3321369	0.26862906	2.3788518	21	—	—
52318 1992 BC_3	15.4	X	240.72310	212.54295	312.30686	10.37035	0.1887979	0.25969041	2.4331307	21	11 20.3	18.9
52319 1992 DP_7	15.2	X	185.84206	337.93450	118.89991	3.49238	0.0516345	0.24672058	2.5176719	21	7 3.8	18.8
52320 1992 DX_7	14.7	X	83.38778	105.23941	22.04495	4.62657	0.1356843	0.17302460	3.1895602	21	4 23.3	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52321 1992 DO_8	14.3	X	118.96403	245.34336	178.18967	11.06656	0.0931386	0.17133938	3.2104402	21	3 13.7	19.0
52322 1992 DD_9	15.2	X	316.26597	204.70323	185.88198	6.74004	0.1152960	0.25377355	2.4708051	21	9 24.5	17.5
52323 1992 DP_9	14.2	X	211.77862	142.72324	259.78988	2.39627	0.2524763	0.18012886	3.1051352	21	5 17.6	19.5
52324 1992 DV_9	16.0	X	285.82021	270.45088	202.35629	3.15465	0.1351162	0.25870435	2.4393094	21	11 28.7	18.5
52325 1992 EX_2	15.6	X	53.86936	330.37759	124.45559	2.67194	0.1964000	0.26945784	2.3739715	21	1 1.6	17.2
52326 1992 EL_7	14.0	X	144.65539	291.62437	143.90541	18.24470	0.1698702	0.17527593	3.1621893	21	5 7.4	19.4
52327 1992 EK_9	16.0	X	305.18419	88.84731	79.12073	3.67375	0.1174853	0.26424554	2.4050878	21	—	—
52328 1992 EK_{11}	15.9	X	340.70352	326.44795	161.32543	5.21426	0.1453100	0.26476840	2.4019204	21	—	—
52329 1992 ER_{12}	15.4	X	304.83549	20.95008	197.90130	2.37317	0.1135891	0.26759991	2.3849471	21	1 2.8	18.6
52330 1992 EA_{15}	14.8	X	101.74492	254.18938	171.85451	13.74833	0.1668575	0.27088374	2.3656333	21	2 16.2	17.5
52331 1992 EC_{15}	14.8	X	86.67878	296.91761	164.53302	23.33075	0.2579429	0.27344026	2.3508653	21	4 5.0	17.5
52332 1992 EZ_{19}	15.0	X	319.51442	92.55708	152.14053	22.11567	0.1611272	0.27129944	2.3632162	21	2 16.7	17.7
52333 1992 EE_{22}	15.8	X	49.20618	20.00787	72.14116	3.28814	0.1637046	0.26852129	2.3794883	21	—	—
52334 Oberammergau	15.3	X	15.16735	70.44833	30.41248	3.01624	0.1269179	0.26435704	2.4044115	21	—	—
52335 1992 HO	15.6	X	310.37363	308.88471	136.18372	2.91201	0.1362594	0.25544785	2.4599968	21	12 3.2	17.8
52336 1992 OE_7	14.6	X	178.62113	47.02750	309.29951	12.46262	0.1596383	0.22425743	2.6831080	21	2 19.1	19.0
52337 Compton	15.4	X	292.50534	298.92232	54.72341	1.33890	0.2288981	0.26720195	2.3873145	21	6 1.3	18.3
52338 1992 RH_1	14.3	X	166.33750	1.07926	63.66835	22.82710	0.0727075	0.22743331	2.6580715	21	5 5.8	18.4
52339 1992 RO_2	15.0	X	303.71679	118.13939	171.07172	13.66260	0.0539851	0.22943928	2.6425560	21	4 22.6	18.6
52340 1992 SY	17.8	X	219.80114	116.15676	5.34315	8.06650	0.5480636	0.29916885	2.2140723	21	8 15.7	22.3
52341 Ballmann	14.8	X	70.24280	345.15263	13.51533	9.57344	0.1479100	0.21192842	2.7861848	21	—	—
52342 1992 SK_{19}	14.7	X	23.84101	212.91158	181.19390	9.36470	0.2007018	0.21063152	2.7976098	21	—	—
52343 1992 WX_1	15.2	X	344.07643	101.42846	285.64906	3.10680	0.1266728	0.30635665	2.1793041	21	11 24.7	16.9
52344 Yehudimenuhin	13.4	X	124.04344	276.56670	93.48064	23.29687	0.0839054	0.17755026	3.1351272	21	1 12.9	18.0
52345 1993 FG_1	14.5	X	66.18618	303.68589	183.34474	22.54400	0.2049598	0.28150372	2.3057557	21	3 21.1	16.2
52346 1993 FG_8	14.7	X	183.17455	210.52151	169.49007	12.44866	0.1908911	0.28131363	2.3067943	21	3 23.5	18.3
52347 1993 FL_9	15.5	X	85.48454	164.60489	141.38964	5.53905	0.1446023	0.26256316	2.4153507	21	12 18.9	19.1
52348 1993 FH_{12}	15.8	X	228.70177	100.44631	105.90718	3.22401	0.1486161	0.26769238	2.3843978	21	—	—
52349 1993 FK_{15}	16.0	X	66.15036	73.59421	112.12053	4.92355	0.0886772	0.28520664	2.2857547	21	6 2.9	18.5
52350 1993 FH_{16}	15.9	X	276.19770	40.44635	106.50659	3.27666	0.1233887	0.26777535	2.3839052	21	—	—
52351 1993 FN_{17}	13.9	X	131.64764	334.75929	167.16537	14.76641	0.2677909	0.18384001	3.0632047	21	7 14.6	19.4
52352 1993 FU_{18}	14.6	X	34.08636	72.33664	93.99655	5.91537	0.0858649	0.17546580	3.1599076	21	3 29.9	18.6
52353 1993 FP_{19}	14.9	X	148.78612	343.94452	148.58026	7.84283	0.0859810	0.18351075	3.0668678	21	7 8.4	19.6
52354 1993 FF_{22}	15.5	X	51.43119	51.31091	6.26176	4.81515	0.1272519	0.27171932	2.3607810	21	—	—
52355 1993 FD_{24}	15.9	X	247.04226	342.28910	215.98119	1.48324	0.1486832	0.26847656	2.3797526	21	—	—
52356 1993 FP_{25}	14.6	X	53.26697	289.30700	206.19516	4.86385	0.1051373	0.17486964	3.1670854	21	3 16.8	18.7
52357 1993 FK_{26}	15.4	X	249.49799	331.39436	270.57268	3.04967	0.0546795	0.27272354	2.3549822	21	—	—
52358 1993 FQ_{26}	15.4	X	333.96886	297.94509	311.22400	1.99698	0.1587766	0.28071499	2.3100727	21	3 14.8	17.9
52359 1993 FM_{27}	14.9	X	92.99386	352.77913	349.59474	10.68858	0.2897753	0.26658695	2.3909846	21	—	—
52360 1993 FC_{30}	14.4	X	60.02894	315.80570	199.78662	14.44225	0.1235933	0.17766051	3.1338301	21	4 25.9	18.5
52361 1993 FT_{30}	16.3	X	53.55490	320.47778	266.22702	2.18105	0.1820482	0.28658764	2.2784058	21	7 30.5	18.5
52362 1993 FS_{31}	14.5	X	114.23565	240.60335	51.60892	4.61852	0.0729945	0.26417174	2.4055357	21	12 27.2	17.9
52363 1993 FP_{37}	14.8	X	11.58051	108.93194	62.05855	1.89714	0.1327581	0.17362514	3.1822012	21	2 26.3	18.4
52364 1993 FG_{38}	14.5	X	41.92500	293.60268	166.75822	6.97719	0.1362288	0.17151388	3.2082622	21	1 16.8	18.3
52365 1993 FS_{38}	14.0	X	111.71909	7.90865	31.46198	6.18196	0.0985390	0.17142336	3.2093916	21	2 8.1	18.6
52366 1993 FN_{39}	14.0	X	65.39791	197.08072	10.03921	18.14686	0.0889894	0.18168388	3.0873921	21	7 6.9	18.5
52367 1993 FO_{39}	15.9	X	134.66086	283.62972	172.49686	2.69577	0.1402465	0.28455301	2.2892537	21	5 8.7	18.9
52368 1993 FQ_{44}	14.3	X	147.46619	269.51562	199.47174	8.10453	0.1654260	0.18290346	3.0736525	21	6 13.4	19.4
52369 1993 FH_{46}	15.7	X	84.20226	89.63814	187.91883	5.78987	0.0149544	0.26081030	2.4261607	21	10 27.4	18.7
52370 1993 FQ_{48}	15.6	X	339.97811	273.99012	2.72440	4.38122	0.1547495	0.28420619	2.2911157	21	5 7.2	17.5
52371 1993 FV_{49}	14.3	X	233.84561	107.24424	266.28335	1.02104	0.1820597	0.18141263	3.0904688	21	5 4.5	19.4
52372 1993 FE_{50}	14.2	X	38.84712	251.00124	194.39125	7.02440	0.1296523	0.17002376	3.2269803	21	—	—
52373 1993 FO_{50}	16.3	X	71.14282	144.52907	330.61833	1.26908	0.0985883	0.28001916	2.3138980	21	2 25.9	18.4
52374 1993 FS_{50}	15.9	X	128.59120	315.41064	338.07372	2.09577	0.1197159	0.26558817	2.3969754	21	—	—
52375 1993 FV_{53}	14.9	X	10.65458	205.40223	44.07971	6.93740	0.1186343	0.18016608	3.1047075	21	6 6.8	18.5
52376 1993 FW_{69}	15.9	X	337.99796	329.88077	211.95694	6.61092	0.0526270	0.27594156	2.3366373	21	1 3.3	18.8
52377 1993 FH_{78}	15.7	X	184.21296	10.94955	8.40391	7.18485	0.1231990	0.28033423	2.3121639	21	3 20.3	18.9
52378 1993 FC_{81}	16.5	X	129.02790	350.22943	152.95446	5.57099	0.0673943	0.28788638	2.2715483	21	6 27.6	19.4
52379 1993 FL_{81}	15.5	X	142.19302	103.90965	147.58164	3.02713	0.1216524	0.26309007	2.4121247	21	12 6.3	19.1
52380 1993 FG_{83}	16.2	X	204.61169	257.74765	93.48369	6.24825	0.0684472	0.27911250	2.3189062	21	3 6.3	19.5
52381 1993 HA	20.0	X	300.79663	263.90215	183.26034	7.72556	0.1439952	0.68203605	1.2781971	21	—	—
52382 1993 HE_1	15.0	X	28.61302	203.95615	28.74124	7.45303	0.2194107	0.28356042	2.2945929	21	6 23.7	16.6
52383 1993 HU_2	15.7	X	91.21601	29.66497	158.95613	4.98401	0.1459812	0.28722809	2.2750177	21	7 23.6	18.6
52384 Elenapanko	15.3	X	137.74767	68.07981	68.03048	26.22724	0.1016763	0.39102538	1.8521071	21	6 28.7	17.6
52385 1993 OC	14.1	X	82.56959	26.10805	299.34646	23.60157	0.1948929	0.25633432	2.4543220	21	—	—
52386 1993 OF_6	16.0	X	301.96074	292.73971	304.56366	1.88479	0.1218682	0.27140409	2.3626087	21	1 21.7	19.1
52387 Huitzilopochtli	17.7	X	249.64710	195.56712	297.58430	24.15276	0.1896834	0.67892722	1.2820961	21	—	—
52388 1993 PV_4	15.0	X	235.36945	301.76156	295.94867	6.53459	0.1528765	0.26303123	2.4124844	21	—	—
52389 1993 PP_5	15.4	X	224.04905	158.92897	170.41559	5.05735	0.2324711	0.23386834	2.6090862	21	2 26.6	19.8
52390 1993 QS_4	14.5	X	234.75957	28.92032	346.94196	13.14839	0.1999600	0.23775309	2.5805876	21	4 28.6	18.9
52391 1993 QP_5	14.5	X	323.76750	334.72918	329.31456	9.75457	0.1121888	0.24147379	2.5540107	21	5 28.6	17.6
52392 1993 RG_5	14.8	X	296.41705	319.80617	330.29860	2.22588	0.2706875	0.23749647	2.5824461	21	3 9.6	18.5
52393 1993 RH_5	15.4	X	275.04934	54.31775	344.30782	4.65076	0.1697878	0.24232731	2.5480100	21	7 21.9	18.7
52394 1993 RF_6	14.5	X	138.64567	260.40820	185.92687	14.35086	0.1886911	0.23266534	2.6180720	21	5 9.7	18.7
52395 1993 RJ_6	15.4	X	108.93969	1.06371	354.22765	8.66824	0.2754433	0.22288656	2.6940985	21	—	—
52396 1993 RC_7	15.2	X	259.08503	276.82733	346.50930	2.44134	0.1353342	0.22992602	2.6388253	21	1 14.9	19.4
52397 1993 RF_7	15.2	X	221.18552	75.59198	268.71444	1.74894	0.1700834	0.23323757	2.6137881	21	3 15.1	19.5
52398 1993 RT_7	14.9	X	211.65545	94.57094	332.46512	2.94310	0.1337557	0.23857008	2.5746927	21	6 20.3	18.9
52399 1993 RM_{15}	14.9	X	243.30221	20.80634	359.27582	7.67427	0.2047983	0.23846879	2.5754217	21	5 14.6	19.2
52400 1993 SG_{14}	15.4	X	184.70825	199.68705	242.57175	1.08610	0.0976509	0.23782470	2.5800695	21	6 12.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52401 1993 SS_{15}	14.1	X	253.26370	23.75546	53.12930	10.87954	0.1507819	0.24335756	2.5408137	21	8 22.6	17.8
52402 1993 TL	14.4	X	245.39456	321.03963	17.58410	4.64879	0.2988338	0.23534922	2.5981300	21	3 23.7	19.0
52403 1993 TQ_{17}	15.1	X	39.19896	191.29649	173.97785	5.31904	0.0739331	0.21611992	2.7500432	21	12 21.5	18.9
52404 1993 TD_{20}	15.2	X	198.80960	271.69361	66.22151	3.20413	0.0836570	0.22937753	2.6430302	21	2 16.9	19.1
52405 1993 TV_{22}	15.2	X	216.95541	123.89442	182.81699	10.46524	0.0489517	0.22791758	2.6543050	21	1 25.3	19.3
52406 1993 TV_{23}	16.0	X	193.14555	238.97404	161.60253	2.45379	0.2144218	0.23384842	2.6092344	21	4 30.2	20.4
52407 1993 TC_{31}	15.3	X	173.31934	323.25145	54.24361	5.13802	0.1353011	0.22998300	2.6383894	21	3 15.0	19.4
52408 1993 TJ_{34}	14.9	X	102.87802	349.25527	151.41539	4.64493	0.2024650	0.23271613	2.6176911	21	6 11.1	18.7
52409 1993 UW_5	15.0	X	195.32985	24.82498	92.24047	5.07601	0.1205823	0.23952606	2.5678375	21	8 9.7	18.9
52410 1993 UG_6	14.7	X	85.87170	93.78637	163.30694	8.73189	0.0846010	0.24481856	2.5306951	21	10 10.7	18.2
52411 1994 AA_3	13.6	X	167.39846	75.70374	311.67540	11.90715	0.1560873	0.22379667	2.6867894	21	3 15.4	18.1
52412 1994 AF_5	14.7	X	12.17143	275.16714	294.27295	10.81642	0.2451347	0.22321096	2.6914875	21	3 28.9	17.1
52413 1994 BF_4	14.0	X	314.48070	7.20547	148.92592	5.50564	0.0464150	0.21406153	2.7676445	21	—	—
52414 1994 CV_{17}	14.6	X	32.88004	157.60653	68.13580	3.45036	0.2115742	0.22378943	2.6868474	21	6 22.9	17.1
52415 1994 EP_6	14.8	X	10.75527	340.28544	140.57952	10.13604	0.2219584	0.21445301	2.7642753	21	—	—
52416 1994 GC_3	14.2	X	352.66317	242.92418	15.81434	3.43709	0.0629023	0.18555152	3.0443392	21	5 21.6	18.1
52417 1994 GG_4	15.4	X	148.76294	260.31930	180.73959	0.43011	0.1148500	0.18543433	3.0456216	21	5 7.7	19.9
52418 1994 GX_{10}	14.5	X	200.99801	128.61677	52.22307	7.34754	0.2258473	0.19933766	2.9023056	21	10 24.2	19.3
52419 1994 HX	17.1	X	357.43846	184.44934	177.36140	1.23455	0.1750073	0.30437102	2.1887720	21	11 18.5	18.7
52420 1994 JX_1	14.4	X	135.47878	146.46871	31.22265	10.92768	0.0770775	0.19179770	2.9778795	21	8 25.1	19.0
52421 Daihoji	14.0	X	243.74917	255.78528	94.72561	22.23395	0.1830039	0.17857211	3.1231557	21	4 27.1	19.4
52422 LPL	13.9	X	108.29842	201.70252	306.56272	23.91809	0.1676627	0.17731986	3.1378424	21	6 26.7	18.9
52423 1994 LZ	14.7	X	178.38083	222.94883	93.46640	27.67102	0.1655582	0.27723398	2.3293697	21	—	—
52424 1994 LX_3	15.7	X	183.68016	271.75264	76.33871	4.07811	0.1707704	0.28117869	2.3075323	21	2 11.3	19.2
52425 1994 LU_8	15.9	X	356.85628	163.28196	93.83188	2.83557	0.1694947	0.29102654	2.2551788	21	5 11.7	17.4
52426 1994 PF	16.4	X	72.31552	12.69076	246.31130	4.18252	0.1483078	0.29509544	2.2344006	21	10 7.1	19.2
52427 1994 PH	15.2	X	164.29878	335.85544	352.43451	4.65059	0.1955340	0.27382943	2.3486374	21	1 1.3	18.7
52428 1994 PE_4	15.9	X	83.17112	162.85976	223.32698	1.97354	0.1763931	0.26914793	2.3757935	21	—	—
52429 1994 PK_6	16.2	X	48.78727	5.66971	305.43438	0.53436	0.1852269	0.26032080	2.4292011	21	11 18.9	19.3
52430 1994 PF_8	16.1	X	46.04405	292.50831	330.16532	6.21167	0.1037928	0.29205253	2.2498941	21	8 29.0	18.4
52431 1994 PS_{10}	15.5	X	86.08872	16.80566	327.25543	2.22839	0.1929186	0.26633328	2.3925026	21	—	—
52432 1994 PG_{11}	15.2	X	101.83295	189.83387	170.84033	1.29460	0.2305632	0.26883040	2.3776639	21	—	—
52433 1994 PZ_{15}	16.2	X	92.93964	113.43895	237.26678	1.61661	0.2062825	0.26723516	2.3871167	21	—	—
52434 1994 PA_{17}	15.9	X	104.66155	72.71927	273.87838	1.70032	0.2068244	0.26814018	2.3817424	21	—	—
52435 1994 PM_{25}	15.9	X	99.10341	292.97186	137.29656	2.86238	0.1265558	0.27554150	2.3388985	21	2 12.5	18.5
52436 1994 PM_{26}	15.0	X	141.69475	38.06150	335.06774	12.66232	0.1643129	0.27430948	2.3458964	21	2 1.4	18.2
52437 1994 PY_{27}	16.0	X	55.05685	117.21042	127.87289	5.06435	0.0882292	0.29114414	2.2545715	21	8 15.0	18.2
52438 1994 PQ_{32}	15.5	X	101.07177	142.15637	190.00416	5.54775	0.1242411	0.26671461	2.3902216	21	—	—
52439 1994 QL	14.9	X	14.26779	287.25752	45.77777	26.55588	0.1428692	0.36858652	1.9265328	21	11 12.2	16.1
52440 1994 QN	14.8	X	171.68980	294.01592	66.97815	23.54595	0.2799311	0.27634552	2.3343596	21	3 7.3	19.4
52441 1994 RS_1	15.2	X	61.28250	208.36709	172.14710	10.43560	0.2750137	0.26524439	2.3990460	21	—	—
52442 1994 SF_{10}	15.5	X	50.85040	355.36886	38.02985	1.94461	0.1909516	0.26460392	2.4029157	21	—	—
52443 1994 TW	14.6	X	231.03305	353.01933	20.46296	13.83270	0.1787456	0.24482761	2.5306327	21	4 26.2	18.6
52444 1994 TQ_2	15.2	X	255.62683	295.19281	40.45320	9.44482	0.2579640	0.24482660	2.5306397	21	4 1.1	19.4
52445 1994 TG_5	16.3	X	5.80956	275.65366	163.23016	2.27571	0.1973563	0.26339716	2.4102494	21	—	—
52446 1994 TR_5	15.7	X	124.61768	311.88206	30.67962	3.08874	0.1793514	0.26863879	2.3787943	21	—	—
52447 1994 TH_{16}	15.2	X	111.06496	140.02671	232.26995	12.42523	0.2182070	0.26964548	2.3728701	21	—	—
52448 1994 UW_9	15.9	X	229.75965	48.89379	317.74360	1.94135	0.2447569	0.24368414	2.5385431	21	4 14.9	20.4
52449 1994 VJ	15.1	X	18.84602	77.09898	301.86165	1.31620	0.1835938	0.25908994	2.4368886	21	—	—
52450 1994 VL	15.3	X	186.29154	49.86368	22.99752	5.57078	0.2203279	0.24292343	2.5438400	21	6 1.5	19.7
52451 1994 VU	14.7	X	237.90054	352.23727	56.68661	13.31974	0.1151715	0.24549378	2.5260526	21	6 25.7	18.4
52452 1994 VQ_1	15.2	X	185.51936	185.48984	247.17066	4.61126	0.2278407	0.24196348	2.5505637	21	6 1.6	19.6
52453 1994 WC	15.0	X	61.75166	304.92014	38.23023	11.47368	0.3324976	0.26203545	2.4185924	21	—	—
52454 1994 WV_4	15.7	X	213.08685	153.36161	122.17041	7.40959	0.0970158	0.26707640	2.3880626	21	—	—
52455 Masamika	14.6	X	224.53196	177.96854	281.19076	18.94128	0.2016996	0.24495978	2.5297223	21	8 3.3	18.9
52456 1995 AY_3	15.0	X	113.33531	57.00320	87.34175	6.96391	0.1710885	0.23820084	2.5773527	21	6 23.2	18.8
52457 Enquist	14.5	X	201.85762	298.22747	92.37849	5.72112	0.2290940	0.23927550	2.5696298	21	4 26.1	18.9
52458 1995 BK_1	15.7	X	52.92188	222.31353	289.90279	0.94766	0.0659055	0.23018740	2.6368273	21	3 26.3	19.0
52459 1995 DS	14.7	X	29.83913	266.04180	266.61621	13.04930	0.0719579	0.23038589	2.6353125	21	3 11.3	18.2
52460 1995 DA_3	15.9	X	150.14397	41.56330	227.20940	20.44161	0.0405494	0.36313469	1.9457672	21	—	—
52461 1995 DE_5	15.1	X	291.19634	1.66421	226.40706	1.50171	0.1478903	0.22439003	2.6820509	21	1 3.9	19.1
52462 1995 FQ_{15}	15.7	X	108.10997	340.41349	82.06516	4.60056	0.0590395	0.22331389	2.6906604	21	2 16.6	19.2
52463 1995 GA_8	15.7	X	47.44210	161.35146	13.45485	4.14197	0.2289332	0.22930424	2.6435934	21	5 7.5	18.1
52464 1995 MC_2	14.3	X	265.09983	168.19526	225.61806	6.45969	0.1190631	0.18746030	3.0236384	21	7 7.4	18.7
52465 1995 OF_3	14.4	X	293.48992	98.41283	163.13576	9.73955	0.1416753	0.21683487	2.7439949	21	2 17.7	18.3
52466 1995 OF_4	14.6	X	189.72168	288.96790	147.10026	11.49371	0.0808207	0.18282423	3.0745405	21	6 13.1	19.5
52467 1995 OS_{10}	14.2	X	131.52754	50.87745	328.71175	12.06080	0.1681293	0.17062733	3.2193658	21	2 13.2	19.1
52468 1995 QB_1	14.4	X	173.58402	297.91905	190.73374	2.01211	0.1940455	0.18430424	3.0580588	21	7 30.2	19.6
52469 1995 QV_1	15.7	X	322.57028	355.59857	351.16505	4.45994	0.1561509	0.30249325	2.1978207	21	7 30.7	17.3
52470 1995 ST_2	14.3	X	344.32845	19.30830	359.73978	19.00276	0.1299513	0.22957399	2.6415221	21	10 18.6	17.3
52471 1995 SG_4	15.2	X	172.44903	42.12952	312.54966	21.68897	0.2270305	0.28516029	2.2860024	21	2 8.9	18.8
52472 1995 SR_9	14.3	X	142.67800	91.38726	355.56823	12.98463	0.1293019	0.17657254	3.1466899	21	5 5.5	19.4
52473 1995 SE_{17}	14.4	X	146.42271	55.49930	42.49012	0.32949	0.2157868	0.17678357	3.1441852	21	6 2.0	19.7
52474 1995 SH_{32}	15.8	X	241.04779	137.47111	337.31089	3.42679	0.0944476	0.30585017	2.1817094	21	10 5.9	18.2
52475 1995 SO_{39}	14.0	X	79.25101	247.91675	298.47317	15.21169	0.0165123	0.18369727	3.0647914	21	6 15.7	18.4
52476 1995 SM_{73}	15.9	X	119.77586	49.22506	182.17241	3.24996	0.1039027	0.30635906	2.1792927	21	10 23.9	18.7
52477 1995 SG_{77}	14.3	X	317.35384	60.32901	258.64135	9.65587	0.1002012	0.18538215	3.0461931	21	6 14.6	18.3
52478 1995 TO	15.6	X	289.99805	15.45262	15.55839	3.74359	0.1584805	0.29990308	2.2104571	21	8 7.5	17.7
52479 1995 TZ	15.7	X	330.00804	252.24150	36.19645	2.15403	0.1949709	0.29568993	2.2314048	21	4 29.3	17.5
52480 Enzomora	16.2	X	182.08204	265.53562	315.77120	4.11944	0.0438786	0.30823518	2.1704407	21	12 24.6	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52481 1995 UG_{15}	14.2	X	55.11933	278.68860	222.41579	16.57649	0.0442181	0.16967083	3.2314537	21	3 17.9	18.8
52482 1995 UW_{25}	16.0	X	288.63619	0.54990	40.32205	4.09565	0.1813124	0.30063894	2.2068487	21	8 17.3	18.1
52483 1995 VZ_{4}	16.0	X	320.86782	232.32835	111.66180	3.54297	0.0799895	0.29803992	2.2196598	21	7 30.8	18.0
52484 1995 VL_{12}	16.2	X	156.37182	103.13590	64.06904	6.15492	0.0998975	0.29825909	2.2185723	21	9 9.5	19.3
52485 1995 WD	15.6	X	289.80720	329.46996	64.81439	7.78384	0.1521966	0.29817335	2.2189976	21	8 15.8	17.9
52486 1995 WA_{28}	16.8	X	93.31265	60.25269	47.45070	4.60206	0.1516996	0.28502473	2.2867272	21	4 2.4	19.2
52487 1995 XO_{2}	15.4	X	272.87549	277.04696	95.01363	5.45959	0.2361403	0.29293586	2.2453688	21	5 31.8	18.4
52488 1995 XD_{3}	15.9	X	16.38845	75.46409	94.26677	8.52951	0.1346097	0.28109841	2.3079716	21	2 7.3	18.0
52489 1995 YG_{3}	15.4	X	125.89971	68.09127	331.08042	3.08521	0.1286267	0.27816304	2.3241800	21	2 7.9	18.1
52490 1995 YY_{5}	15.4	X	316.94729	227.75958	94.92267	3.96467	0.1754564	0.29510801	2.2343372	21	6 2.9	17.5
52491 1995 YC_{10}	15.1	X	61.08505	75.52611	268.35280	4.96005	0.1152076	0.26413085	2.4057840	21	—	—
52492 1995 YK_{11}	16.6	X	317.25629	311.64713	177.04628	2.15717	0.1561862	0.26740626	2.3860984	21	—	—
52493 1995 YC_{17}	15.8	X	239.27976	216.11715	74.68383	8.25265	0.0805667	0.28212513	2.3023687	21	1 23.5	19.1
52494 1996 AN_{8}	15.6	X	319.03794	189.67787	293.55013	5.55969	0.0786720	0.26668291	2.3904111	21	—	—
52495 1996 AK_{10}	16.3	X	168.08318	166.22607	249.11905	1.87682	0.1231669	0.28323448	2.2963529	21	4 17.9	19.5
52496 1996 AA_{11}	15.9	X	312.71039	291.38957	206.18030	1.76845	0.1489599	0.26732762	2.3865662	21	—	—
52497 1996 AA_{14}	15.7	X	79.81268	8.91489	5.31614	6.53919	0.1555572	0.26762885	2.3847751	21	—	—
52498 1996 BG_{8}	15.4	X	255.04901	62.91884	269.84497	3.19686	0.2118157	0.28370728	2.2938010	21	3 23.2	19.1
52499 1996 CL_{1}	15.2	X	184.74327	67.77703	134.98757	13.61538	0.1874086	0.25698770	2.4501603	21	11 16.8	19.4
52500 Kanata	14.7	X	3.21683	174.35562	334.46310	9.90476	0.1106562	0.27145445	2.3623164	21	—	—
52501 1996 DJ_{2}	15.0	X	304.28212	180.59225	17.54998	5.37524	0.1725733	0.26864394	2.3787639	21	—	—
52502 1996 EZ_{4}	15.6	X	271.51201	159.52878	354.62844	2.47983	0.1320134	0.26191888	2.4193099	21	—	—
52503 1996 EX_{15}	15.6	X	46.71371	128.26332	285.17953	5.83837	0.1065261	0.26704332	2.3882598	21	—	—
52504 1996 FQ_{2}	16.3	X	236.22008	207.36085	326.61487	0.69120	0.1293421	0.25934655	2.4352809	21	12 7.9	19.4
52505 1996 FD_{4}	15.0	X	33.37238	139.05288	346.60513	4.46662	0.2084983	0.27194626	2.3594674	21	—	—
52506 1996 FK_{4}	16.4	X	290.89458	190.74430	5.03245	1.26501	0.1223840	0.26789421	2.3832000	21	—	—
52507 1996 GC_{1}	15.5	X	185.39652	114.88903	144.68585	3.07463	0.1673458	0.25900804	2.4374023	21	—	—
52508 1996 GK_{5}	15.8	X	30.23647	354.62983	85.73331	3.45478	0.1446674	0.26581471	2.3956133	21	—	—
52509 1996 GP_{9}	15.4	X	230.91667	113.62851	182.96306	3.08182	0.0874437	0.22929583	2.6436580	21	1 28.4	19.3
52510 1996 GA_{11}	15.7	X	18.21326	243.52710	164.57316	1.95792	0.1269427	0.22002465	2.7174100	21	—	—
52511 1996 GH_{12}	12.1	X	38.30042	101.52649	123.28344	9.40453	0.0665856	0.08207572	5.2439626	21	6 18.5	18.8
52512 1996 GO_{19}	15.1	X	84.47099	355.62749	210.99899	6.92698	0.1144832	0.24306241	2.5428702	21	8 1.2	18.6
52513 1996 GZ_{20}	15.2	X	77.26223	157.67731	24.01470	11.15427	0.1479118	0.28009317	2.3134904	21	6 24.3	18.1
52514 1996 HG_{3}	15.5	X	247.72025	216.13511	74.42540	5.95514	0.1138329	0.22923878	2.6440966	21	2 8.7	19.5
52515 1996 HL_{12}	15.8	X	298.54169	239.57130	339.49072	0.64213	0.1370849	0.26706247	2.3881457	21	—	—
52516 1996 HO_{20}	15.0	X	247.23594	182.64106	60.54099	3.29085	0.1448730	0.26319383	2.4114906	21	—	—
52517 1996 HZ_{23}	15.7	X	137.88318	81.04662	52.84224	12.96895	0.1596603	0.24199665	2.5503306	21	7 4.6	19.8
52518 1996 HE_{25}	14.9	X	278.91988	69.83828	184.73616	3.57206	0.1611015	0.22832956	2.6511113	21	1 20.6	18.9
52519 1996 JL_{1}	14.8	X	289.66844	235.17793	56.27491	14.40636	0.0485892	0.23371620	2.6102183	21	4 10.2	18.4
52520 1996 JK_{3}	14.8	X	3.13795	92.83832	60.11238	11.65908	0.1901545	0.26916350	2.3757018	21	—	—
52521 1996 JU_{3}	15.4	X	343.99547	48.70240	100.20455	3.59523	0.1140543	0.26590139	2.3950926	21	—	—
52522 1996 JW_{10}	15.5	X	242.74209	126.36311	121.94988	3.21315	0.1749414	0.26320937	2.4113957	21	—	—
52523 1996 JE_{16}	15.0	X	164.30094	182.12977	124.19478	4.03283	0.1616442	0.22073162	2.7116045	21	—	—
52524 1996 PH	15.7	X	65.97581	302.00339	308.23279	2.61704	0.1867440	0.23939326	2.5687870	21	9 17.5	19.1
52525 1996 PJ	15.6	X	346.83490	327.78021	141.37704	23.60512	0.0902893	0.37045645	1.9200444	21	—	—
52526 1996 PF_{3}	15.4	X	349.99652	306.40672	146.86613	23.09751	0.0946062	0.36797399	1.9286702	21	—	—
52527 1996 PM_{5}	14.9	X	79.40211	231.19404	129.58284	10.14093	0.1307350	0.21020835	2.8013631	21	—	—
52528 1996 PM_{9}	14.7	X	356.45483	162.69023	176.53438	2.12711	0.1044949	0.19889100	2.9066493	21	9 15.6	18.0
52529 1996 RQ	15.1	X	133.60080	42.09582	272.93734	18.23534	0.0718609	0.36921119	1.9243592	21	—	—
52530 1996 TW_{3}	14.5	X	222.14650	296.07015	145.32657	2.96545	0.0184984	0.19034693	2.9929914	21	7 29.7	18.7
52531 1996 TB_{8}	13.8	X	281.05321	211.14354	198.87007	7.90069	0.0455818	0.19326132	2.9628256	21	8 28.1	17.9
52532 1996 TP_{8}	14.1	X	147.23237	93.29444	10.48309	11.77515	0.0523289	0.18453992	3.0554545	21	5 26.3	18.7
52533 1996 TJ_{10}	14.7	X	65.18518	307.74336	12.20008	19.01517	0.0803733	0.35998432	1.9571029	21	12 27.3	17.5
52534 1996 TB_{15}	15.1	X	343.28294	139.04951	347.11329	19.90846	0.0517851	0.36954283	1.9232077	21	—	—
52535 1996 TU_{19}	14.5	X	223.02628	359.98753	330.47591	9.15518	0.0735830	0.18116208	3.0933176	21	3 8.3	19.1
52536 1996 TB_{20}	14.5	X	308.40842	358.74637	337.07477	9.33744	0.0753559	0.19112148	2.9848995	21	6 28.1	18.5
52537 1996 TL_{32}	14.2	X	159.20043	269.24344	81.19671	6.88092	0.1226922	0.17441238	3.1726184	21	2 2.7	19.2
52538 1996 TT_{39}	15.9	X	6.01310	180.17034	138.72837	3.56297	0.1700067	0.27574113	2.3377694	21	9 21.6	17.8
52539 1996 TB_{41}	14.6	X	284.40477	180.15815	168.41184	11.29604	0.1067283	0.18979728	2.9987670	21	6 7.4	18.9
52540 1996 TJ_{48}	13.5	X	296.39116	314.36853	65.45780	11.01190	0.1164556	0.19258391	2.9697693	21	8 5.1	17.5
52541 1996 VB	15.0	X	73.70206	31.96374	285.30309	0.99572	0.0564585	0.20171512	2.8794558	21	11 29.0	19.1
52542 1996 VU_{4}	13.9	X	261.98093	338.12599	78.33905	13.88389	0.1619209	0.18937267	3.0032479	21	7 30.3	18.4
52543 1996 VA_{11}	14.3	X	9.87634	177.60310	340.21023	8.54440	0.0456131	0.17464958	3.1697452	21	2 11.1	18.5
52544 1996 VC_{11}	13.7	X	197.65275	55.51925	10.76437	16.42989	0.1043425	0.18511468	3.0491268	21	6 3.8	18.8
52545 1996 VW_{12}	14.4	X	128.19648	31.12623	46.82623	5.42633	0.1623634	0.17693097	3.1424386	21	4 18.8	19.1
52546 1996 XW	14.3	X	279.62115	11.65524	65.96674	11.29572	0.0870665	0.19212939	2.9744512	21	10 3.3	18.4
52547 1996 XQ_{1}	13.4	X	287.55008	258.48432	96.98250	22.84818	0.0722375	0.18206122	3.0831246	21	6 24.9	17.7
52548 1996 XD_{2}	14.7	X	116.08426	176.85916	204.22666	4.16695	0.1211265	0.17040045	3.2222228	21	1 22.2	19.4
52549 1996 XB_{31}	14.1	X	117.70797	358.84683	122.39138	10.30563	0.0479113	0.17519229	3.1631956	21	5 19.4	18.8
52550 1996 YB_{3}	12.9	X	117.63363	198.77205	285.08742	14.73541	0.0340196	0.17644502	3.1482057	21	5 15.2	17.7
52551 1997 AL	14.0	X	138.87749	157.79697	311.17435	8.37745	0.0511511	0.17539507	3.1607572	21	5 24.8	18.8
52552 1997 AD_{17}	14.2	X	159.58255	284.88315	118.27493	11.64134	0.1231187	0.17086861	3.2163344	21	4 9.5	19.4
52553 1997 CA_{16}	14.9	X	231.45118	102.03508	330.45811	5.56182	0.0875322	0.22028160	2.7152963	21	7 24.1	18.9
52554 1997 EN_{3}	15.9	X	158.90400	25.10123	4.95984	5.77195	0.1410564	0.28590062	2.2820544	21	3 8.5	18.9
52555 1997 EK_{4}	16.1	X	356.59010	210.27182	3.71738	3.85437	0.0582814	0.28699019	2.2762747	21	3 15.4	18.6
52556 1997 ET_{35}	14.0	X	177.63950	71.46998	333.80331	6.27392	0.1516085	0.17318096	3.1876402	21	4 21.9	19.3
52557 1997 EK_{41}	15.7	X	348.42541	9.11254	239.70556	3.36304	0.1195783	0.29116858	2.2544454	21	4 13.4	17.8
52558 Pigafetta	16.0	X	354.36880	206.29605	0.24526	3.87323	0.1069120	0.28562175	2.2835395	21	2 23.5	18.3
52559 1997 FN_{3}	14.8	X	140.82538	276.79069	28.94568	4.88685	0.2098826	0.26972851	2.3723831	21	—	—
52560 1997 GL_{14}	15.7	X	222.17102	346.29731	299.62174	2.72693	0.1376754	0.27717137	2.3297204	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52561 1997 GT_{14}	15.3	X	266.84169	56.78847	215.02023	7.27432	0.0995032	0.28120477	2.3073896	21	1 24.7	18.7
52562 1997 GY_{17}	15.6	X	97.68341	148.60374	22.23791	6.63104	0.0601608	0.29304344	2.2448193	21	6 23.5	18.4
52563 1997 GY_{18}	15.9	X	48.60346	181.23122	344.72340	3.99376	0.0369949	0.28677055	2.2774369	21	3 27.6	18.2
52564 1997 GN_{21}	15.9	X	287.65313	199.15956	22.33265	4.74048	0.1597144	0.27712190	2.3299977	21	—	—
52565 1997 GO_{22}	15.7	X	135.63258	11.50405	222.85240	2.00180	0.1403994	0.26121973	2.4236249	21	11 8.2	19.4
52566 1997 GP_{27}	15.8	X	274.90060	340.38814	287.62764	1.95460	0.1364768	0.28235145	2.3011382	21	1 27.2	18.9
52567 1997 HN_2	11.9	X	338.23441	221.01064	54.36347	21.47504	0.0719038	0.08407950	5.1603121	21	5 26.1	18.4
52568 1997 HJ_8	15.3	X	68.74373	198.51783	176.37032	2.12542	0.2358132	0.26839168	2.3802543	21	—	—
52569 1997 HJ_{11}	15.0	X	176.26069	71.68612	250.02650	3.40271	0.2924269	0.27204875	2.3588748	21	1 11.1	19.0
52570 1997 JC_1	14.9	X	210.69155	147.69075	54.26227	13.75269	0.1306417	0.26789562	2.3831917	21	12 13.2	18.2
52571 1997 KJ_2	15.6	X	148.88614	264.32849	90.92933	5.76537	0.1678508	0.27332682	2.3515157	21	1 15.9	18.9
52572 1997 LL	15.5	X	333.39015	170.77338	170.41046	7.55425	0.2224352	0.25095377	2.4892789	21	8 1.0	17.5
52573 1997 LM_{12}	15.3	X	112.92350	183.47832	73.46411	7.54581	0.0908750	0.25984624	2.4321578	21	11 12.5	18.7
52574 1997 MS_2	14.6	X	196.76319	270.39273	102.37749	13.96414	0.1844741	0.23587461	2.5942705	21	4 5.3	19.2
52575 1997 MY_5	15.5	X	55.98139	318.37397	228.35180	10.16771	0.1246795	0.24081678	2.5586540	21	5 26.2	18.3
52576 1997 MW_6	16.1	X	39.02574	195.02455	195.75623	11.36005	0.2496290	0.26350738	2.4095773	21	—	—
52577 1997 MJ_7	15.6	X	85.14386	294.01444	215.63441	10.69040	0.1290796	0.23892741	2.5721250	21	5 20.2	18.8
52578 1997 NE	16.4	X	216.96556	320.63434	216.47611	1.89189	0.1259679	0.25791708	2.4442707	21	11 18.9	19.8
52579 1997 NH	15.9	X	233.41256	258.74142	154.10510	3.79666	0.1630807	0.24199843	2.5503181	21	6 22.0	19.9
52580 1997 NO	15.4	X	244.75565	59.50741	137.84393	6.50542	0.0597453	0.26254247	2.4154775	21	—	—
52581 1997 NB_1	15.0	X	210.10989	205.44289	38.81637	2.55491	0.1656988	0.26679872	2.3897193	21	—	—
52582 1997 NE_6	15.4	X	322.65388	196.16004	139.67800	9.90080	0.0672534	0.24513854	2.5284924	21	7 19.9	18.4
52583 1997 NY_6	14.8	X	258.19896	293.34405	136.98866	12.64418	0.1179121	0.24709806	2.5151071	21	8 20.2	18.1
52584 1997 OV_1	15.5	X	199.31642	89.47900	247.58749	6.19588	0.0492900	0.27285184	2.3542439	21	2 4.2	18.9
52585 1997 ON_2	15.1	X	324.02237	4.32814	263.05637	8.43355	0.1510429	0.23926490	2.5697057	21	3 29.3	18.3
52586 1997 PB	14.6	X	315.63312	181.81730	117.15392	4.34860	0.1308232	0.28277680	2.2988301	21	5 5.2	17.2
52587 1997 PD	14.7	X	118.92009	13.19217	286.98738	12.56420	0.2802581	0.26032156	2.4291964	21	—	—
52588 1997 PD_1	15.4	X	179.92904	174.69704	114.53682	2.34778	0.0565553	0.26278786	2.4139736	21	—	—
52589 Montviloff	15.8	X	319.84996	351.73281	256.10393	3.71231	0.1353933	0.27649465	2.3335202	21	2 22.9	18.7
52590 1997 PC_5	15.4	X	266.97870	46.83434	214.77624	1.63514	0.1715281	0.27163615	2.3612629	21	1 10.4	19.0
52591 1997 QD	15.0	X	232.40888	345.75220	300.29021	13.00259	0.3094035	0.23104751	2.6302793	21	1 13.8	19.9
52592 1997 QC_2	14.8	X	169.17535	175.90416	132.99906	6.58899	0.2839850	0.22382921	2.6865291	21	—	—
52593 1997 QF_2	13.8	X	135.74341	10.09789	5.00154	12.87360	0.1418697	0.18362871	3.0655542	21	2 11.6	18.5
52594 1997 RF_3	15.5	X	300.05650	83.96650	177.09361	5.50634	0.2280953	0.27499031	2.3420228	21	2 3.9	19.0
52595 1997 RT_3	15.3	X	293.61395	250.62330	21.27991	3.42847	0.0736729	0.22891691	2.6465745	21	3 12.3	18.8
52596 1997 RO_8	15.9	X	236.94691	41.97448	337.06476	4.41211	0.1722600	0.23606182	2.5928987	21	5 10.7	20.0
52597 1997 RM_9	14.9	X	120.90645	324.27220	356.32290	12.55432	0.1632525	0.21605567	2.7505884	21	—	—
52598 1997 SR_3	15.2	X	202.09756	315.33642	14.40367	2.29507	0.2075708	0.22789157	2.6545070	21	2 12.2	19.7
52599 1997 SK_4	15.4	X	156.65899	75.39762	304.61809	2.63655	0.1088423	0.22620688	2.6676704	21	2 24.4	19.4
52600 1997 SP_{10}	14.4	X	251.76223	181.12376	358.78492	10.49283	0.1818760	0.25648909	2.4533346	21	12 29.5	17.5
52601 Iwayaji	16.0	X	144.70325	337.21856	53.65091	6.85419	0.0787005	0.22592164	2.6699153	21	2 25.6	19.8
52602 1997 TY_5	14.0	X	346.30971	208.79763	84.66251	3.25388	0.0643081	0.19753618	2.9199245	21	6 28.1	17.6
52603 1997 TV_9	15.0	X	142.80491	78.58345	57.36414	4.87059	0.2386549	0.23388066	2.6089946	21	7 17.2	19.4
52604 Thomayer	15.0	X	192.06433	357.38283	28.53077	6.49006	0.1215200	0.22969236	2.6406145	21	4 10.3	19.0
52605 1997 TK_{11}	14.8	X	95.15665	157.76695	1.67762	14.03778	0.1008003	0.23383687	2.6093203	21	6 9.5	18.6
52606 1997 TM_{13}	16.0	X	171.65940	300.70202	340.08915	0.91382	0.1823888	0.26222302	2.4174389	21	—	—
52607 1997 TX_{16}	14.4	X	212.21601	123.02233	47.98472	11.20383	0.0309616	0.24722306	2.5142593	21	11 15.1	17.6
52608 1997 TM_{19}	15.3	X	150.32610	88.88777	336.86922	12.30796	0.1559593	0.22866347	2.6485297	21	4 14.7	19.7
52609 1997 TK_{24}	14.8	X	63.65634	89.44305	321.67535	3.74765	0.0525042	0.21785322	2.7354371	21	—	—
52610 1997 UK_1	15.1	X	183.41373	47.54746	29.53745	6.04521	0.1159250	0.23333990	2.6130239	21	6 4.0	19.2
52611 1997 UL_3	14.4	X	334.85334	319.81138	38.97886	14.32111	0.2038215	0.24319315	2.5419587	21	9 16.2	16.8
52612 1997 UH_5	14.4	X	119.02137	252.54373	299.60677	13.03969	0.1312382	0.23585396	2.5944219	21	8 22.8	18.5
52613 1997 UK_{10}	13.9	X	160.68032	266.22695	48.20197	11.73142	0.1788154	0.21898549	2.7259998	21	—	—
52614 1997 UP_{10}	14.7	X	212.04287	207.70443	82.67699	6.76001	0.0662629	0.22211335	2.7003472	21	1 3.5	18.7
52615 1997 UY_{12}	15.7	X	336.63007	316.56089	34.81749	2.35886	0.1028829	0.20100779	2.8862068	21	8 30.9	19.1
52616 1997 UB_{20}	14.8	X	324.39730	283.54801	266.78155	7.84699	0.1175467	0.22406846	2.6846163	21	—	—
52617 1997 VH_1	15.2	X	220.12888	97.72230	300.69333	13.08850	0.0869492	0.23390229	2.6088337	21	5 23.8	19.3
52618 1997 VP_2	14.3	X	196.77673	265.21586	205.25796	14.69701	0.1646250	0.23746994	2.5826385	21	7 26.4	18.7
52619 1997 VR_2	15.0	X	28.10432	1.54755	283.37415	8.22474	0.0585251	0.24523341	2.5278402	21	8 19.3	18.1
52620 1997 VQ_3	14.6	X	133.44278	146.38292	230.86388	8.72631	0.1814266	0.22053348	2.7132284	21	2 2.7	18.8
52621 1997 VW_4	13.7	X	140.27766	130.04285	49.33637	14.12124	0.1152416	0.23878101	2.5731762	21	9 9.2	17.9
52622 1997 VT_5	14.5	X	274.25460	255.40205	53.37968	9.99271	0.1809682	0.22863682	2.6487356	21	3 26.6	18.6
52623 1997 VY_6	15.2	X	49.83120	153.87719	252.44574	1.03673	0.2333045	0.21384526	2.7695101	21	—	—
52624 1997 VW_8	14.9	X	143.16874	139.43620	231.90663	9.75207	0.1862918	0.22185311	2.7024585	21	2 5.3	19.2
52625 1997 WD	14.6	X	213.06142	16.65569	59.19899	15.01051	0.0621126	0.23439518	2.6051752	21	7 8.7	18.5
52626 1997 WL_1	14.8	X	100.01742	249.00485	269.54659	9.21733	0.1646951	0.22930383	2.6435965	21	6 25.9	18.3
52627 1997 WU_2	13.4	X	0.86088	61.03187	78.68621	22.86397	0.0737832	0.17427179	3.1743245	21	1 3.8	17.7
52628 1997 WO_3	14.5	X	331.28132	339.41962	291.92406	2.49390	0.0485201	0.23086596	2.6316580	21	5 4.2	17.9
52629 1997 WA_8	15.3	X	75.31550	39.01399	65.62825	2.74420	0.2224665	0.22009445	2.7168354	21	3 22.3	18.3
52630 1997 WL_8	14.3	X	347.72476	75.45079	85.07866	4.92971	0.0349104	0.21914228	2.7246994	21	1 6.2	17.7
52631 1997 WC_{21}	14.4	X	151.38573	103.05040	307.70543	5.09084	0.3021278	0.22768376	2.6561219	21	4 10.8	19.1
52632 1997 WN_{21}	13.9	X	266.44527	283.81015	85.59665	16.72687	0.1856998	0.23445772	2.6047119	21	5 31.1	17.7
52633 Turvey	15.2	X	153.44440	318.53006	56.90015	2.79951	0.2056835	0.22282253	2.6946145	21	2 26.7	19.4
52634 1997 WR_{28}	13.7	X	140.75024	174.14793	237.88322	12.04111	0.1802504	0.22420083	2.6835596	21	3 23.0	18.1
52635 1997 WC_{32}	14.5	X	41.60793	164.22950	261.98358	4.81764	0.0627283	0.21415260	2.7668598	21	—	—
52636 1997 WO_{34}	14.5	X	228.86092	156.21847	234.40946	21.13518	0.0682820	0.23240985	2.6199903	21	5 27.1	18.2
52637 1997 WH_{35}	15.2	X	66.37449	308.68688	79.44383	5.19622	0.0779817	0.21307617	2.7761705	21	—	—
52638 1997 WD_{36}	14.2	X	229.99381	142.96145	344.49514	1.26552	0.0285109	0.20051616	2.8909226	21	10 6.2	18.1
52639 1997 WF_{45}	13.9	X	341.43179	59.87173	80.20645	9.98262	0.0956514	0.21394011	2.7686915	21	—	—
52640 1997 WJ_{46}	15.0	X	271.24700	312.73203	75.99481	9.05122	0.1471629	0.27892600	2.3199398	21	7 5.7	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52641 1997 WZ_{54}	15.2	X	115.76390	118.25058	313.99896	1.23446	0.0592666	0.22383141	2.6865115	21	3 8.7	18.7
52642 1997 WB_{55}	15.2	X	297.36554	157.64596	184.28099	2.15831	0.0271082	0.23490103	2.6014337	21	6 25.9	18.4
52643 1997 XK	14.3	X	167.68203	332.77749	36.36320	4.63606	0.1160703	0.22184546	2.7025206	21	2 26.5	18.4
52644 1997 XR_{10}	14.8	X	166.81289	85.31019	32.45867	2.68358	0.1500068	0.23345785	2.6121437	21	7 11.9	19.0
52645 1997 XR_{13}	12.4	X	330.25063	25.87957	60.57040	11.95868	0.0430511	0.08326953	5.1937211	21	11 29.3	19.1
52646 1997 YC	14.7	X	166.83587	112.48052	267.23853	5.93227	0.1175244	0.22271881	2.6954511	21	3 5.4	19.0
52647 1997 YD_4	14.4	X	270.05564	309.65223	115.75089	3.58066	0.0664923	0.19580132	2.9371467	21	9 3.2	18.3
52648 1997 YN_5	14.2	X	209.32047	270.78476	117.57501	12.06270	0.1704464	0.18485107	3.0520249	21	5 6.0	19.4
52649 Chrismith	14.0	X	168.78270	214.88653	252.63686	9.14315	0.0547126	0.18609286	3.0384324	21	6 27.5	18.5
52650 1997 YF_{15}	13.8	X	82.88974	317.00590	297.22850	8.55889	0.2012583	0.19249321	2.9707022	21	10 5.8	18.4
52651 1997 YF_{18}	13.5	X	10.55445	190.98095	50.86283	11.68638	0.1283582	0.17715340	3.1398078	21	5 27.1	17.1
52652 1997 YV_{18}	13.7	X	46.03310	303.59749	101.19826	8.38904	0.1984165	0.20924603	2.8099455	21	—	—
52653 1998 AJ_3	14.2	X	333.37604	35.20152	73.05928	3.68404	0.0683278	0.20653491	2.8344822	21	—	—
52654 1998 AK_5	13.6	X	94.78815	293.37291	322.24767	9.48862	0.0581196	0.19153778	2.9805730	21	10 3.5	18.0
52655 1998 AF_6	15.3	X	199.35080	13.53913	155.23741	7.17398	0.1286902	0.27652895	2.3333272	21	10 24.1	18.6
52656 1998 AN_6	14.3	X	108.14175	310.02386	102.89746	10.67182	0.0839802	0.17470220	3.1691087	21	2 17.7	18.8
52657 1998 AK_7	13.3	X	352.39322	254.05030	320.26794	21.39020	0.0953493	0.17591419	3.1545359	21	3 13.7	17.7
52658 1998 BJ_6	14.3	X	19.32140	354.88712	109.07917	8.30035	0.1919262	0.21102831	2.7941018	21	—	—
52659 1998 BQ_6	14.5	X	100.84960	267.65821	122.37105	7.20310	0.0278380	0.21151710	2.7897956	21	—	—
52660 1998 BJ_8	14.4	X	230.17894	332.67643	128.89620	9.39203	0.1656102	0.19043043	2.9921164	21	8 19.8	19.0
52661 1998 BT_8	13.3	X	38.39125	235.18620	329.63807	21.23474	0.0372115	0.17992674	3.1074602	21	5 9.0	18.0
52662 1998 BW_{12}	14.4	X	347.00776	260.22114	304.04111	13.21208	0.1696012	0.21646502	2.7471196	21	2 11.1	17.7
52663 1998 BV_{18}	14.8	X	114.16101	131.74416	71.48431	3.53462	0.2380654	0.18356098	3.0663081	21	9 12.7	19.9
52664 1998 BA_{21}	15.0	X	65.53483	226.29536	115.95496	3.16935	0.0816497	0.20297850	2.8674951	21	12 23.6	18.9
52665 Brianmay	14.5	X	109.54032	260.89792	316.01882	8.61639	0.1349777	0.18931152	3.0038945	21	9 11.7	19.2
52666 1998 BL_{33}	13.7	X	43.80094	45.82054	118.33536	14.90324	0.2121957	0.17458671	3.1705061	21	4 28.1	17.6
52667 1998 CT_1	14.4	X	273.64689	166.99437	310.39333	17.38769	0.0702360	0.19875909	2.9079352	21	11 5.4	18.7
52668 1998 CA_5	13.3	X	76.15651	227.67708	329.43545	8.29742	0.0460402	0.18215105	3.0821110	21	6 30.1	17.6
52669 1998 DO_2	13.6	X	319.16922	248.63993	46.08593	14.03296	0.1919147	0.17719812	3.1392794	21	5 3.9	17.6
52670 1998 DC_3	14.8	X	177.54081	66.00040	139.84624	10.90808	0.0538573	0.19568608	2.9382997	21	11 12.1	19.3
52671 1998 DL_4	14.1	X	306.36442	174.08224	313.78924	13.01249	0.1574065	0.20303224	2.8669892	21	—	—
52672 1998 DH_5	13.9	X	65.62839	60.79514	93.86952	9.57303	0.0750069	0.17706653	3.1408346	21	4 29.3	18.2
52673 1998 DW_5	13.9	X	10.03159	270.73564	327.96576	22.06841	0.1978652	0.17689123	3.1429093	21	5 15.8	17.8
52674 1998 DZ_8	14.4	X	24.71923	105.80927	137.31707	5.80985	0.1005454	0.18046152	3.1013181	21	6 22.1	18.3
52675 1998 DJ_9	13.6	X	106.52222	79.63755	33.32646	10.67842	0.0472522	0.17513034	3.1639416	21	4 22.3	18.1
52676 1998 DF_{16}	13.5	X	121.06219	309.31485	131.42071	18.10866	0.1201381	0.17497415	3.1658242	21	4 16.2	18.5
52677 1998 DY_{20}	13.1	X	139.73916	229.16145	150.39278	17.85442	0.3109561	0.17388883	3.1789834	21	3 5.4	18.5
52678 1998 DC_{21}	13.9	X	218.09623	147.80099	340.15895	9.55079	0.0585270	0.19131384	2.9828983	21	9 16.8	18.2
52679 1998 DZ_{22}	14.0	X	261.85103	112.52014	321.86387	8.49013	0.0458868	0.19164553	2.9794556	21	9 3.8	18.1
52680 1998 DX_{29}	14.4	X	342.94483	123.98072	101.96281	2.30034	0.1031500	0.17151616	3.2082338	21	3 25.8	18.5
52681 Kelleghan	14.3	X	63.15802	20.16576	122.58973	0.92416	0.1364677	0.17384929	3.1794654	21	4 15.5	18.4
52682 1998 DM_{34}	14.2	X	263.84864	303.29118	9.79030	9.07373	0.0750195	0.17406474	3.1768413	21	4 2.6	18.9
52683 1998 DF_{35}	15.7	X	290.07748	155.53021	28.23466	1.40831	0.1507802	0.28879033	2.2668056	21	—	—
52684 1998 EQ_8	14.2	X	306.52299	20.73840	189.75003	3.21642	0.0346538	0.21058967	2.7979805	21	1 17.1	18.0
52685 1998 EZ_9	14.4	X	13.57155	216.52358	12.37184	10.28430	0.1593300	0.17452830	3.1712135	21	5 13.6	18.1
52686 1998 EN_{11}	14.2	X	8.93895	77.16481	159.69809	26.66329	0.1595235	0.17588031	3.1549409	21	5 24.7	18.4
52687 1998 EO_{13}	14.3	X	299.69699	316.69415	1.05261	14.50191	0.0429365	0.17866746	3.1220444	21	5 22.8	18.9
52688 1998 FL_1	13.7	X	108.09654	203.65958	53.75590	11.90452	0.0627883	0.19061751	2.9901584	21	10 28.1	18.1
52689 1998 FF_2	18.9	X	277.39483	265.13560	4.68473	10.98306	0.2922694	0.50494058	1.5618616	21	—	—
52690 1998 FO_2	16.0	X	19.10559	137.12732	4.61760	24.20829	0.1170575	0.37936803	1.8898568	21	—	—
52691 1998 FC_6	15.1	X	126.87929	4.98922	81.64885	2.65036	0.1610166	0.17492744	3.1663877	21	4 27.9	19.9
52692 1998 FO_8	12.1	X	17.25398	210.73349	13.84355	16.58950	0.1735648	0.17412064	3.1761613	21	5 12.6	15.9
52693 1998 FH_{13}	13.9	X	2.66138	84.41790	131.75899	6.27732	0.1341458	0.17385976	3.1793378	21	4 12.9	17.7
52694 1998 FL_{28}	14.1	X	207.84711	56.91272	177.41022	0.51965	0.0912261	0.20023503	2.8936279	21	—	—
52695 1998 FG_{32}	13.7	X	93.35495	291.65908	187.85945	17.00414	0.1070762	0.17466164	3.1695993	21	4 24.5	18.2
52696 1998 FC_{51}	14.9	X	82.14063	51.00716	123.36755	2.50714	0.1221566	0.17793579	3.1305971	21	6 19.1	19.2
52697 1998 FJ_{51}	14.6	X	127.94844	87.89138	21.99766	6.73748	0.1298454	0.17745905	3.1362014	21	5 21.9	19.4
52698 1998 FK_{54}	14.0	X	280.16180	89.59727	357.03169	11.00884	0.0492755	0.19141401	2.9818576	21	10 11.8	18.2
52699 1998 FO_{56}	13.9	X	327.26126	260.42294	12.23593	9.37851	0.1288991	0.17415516	3.1757415	21	4 24.3	18.1
52700 1998 FG_{62}	14.5	X	353.71089	222.20370	286.18041	2.54959	0.2190664	0.16520202	3.2894691	21	—	—
52701 1998 FL_{69}	14.5	X	87.43854	40.76631	126.83394	2.12333	0.0991001	0.17693137	3.1424339	21	6 13.9	18.9
52702 1998 FR_{71}	13.4	X	337.26177	163.82506	49.08191	2.42227	0.1305358	0.12579060	3.9449115	21	3 6.1	18.5
52703 1998 FW_{72}	14.5	X	180.51016	85.70201	30.56607	0.93388	0.1360376	0.18144337	3.0901197	21	7 22.1	19.5
52704 1998 FX_{74}	12.7	X	333.84853	274.91382	12.94275	9.81410	0.1302494	0.17581776	3.1556892	21	5 24.2	16.8
52705 1998 FA_{77}	13.3	X	171.63877	64.42948	50.02337	7.94338	0.0607241	0.18091845	3.0960941	21	7 11.1	18.0
52706 1998 FO_{77}	12.7	X	51.14199	299.80819	49.50125	9.45534	0.0468687	0.15082168	3.4953730	21	11 29.5	17.7
52707 1998 FE_{81}	14.0	X	359.48634	103.50238	97.55623	6.09968	0.1153644	0.17229288	3.1985845	21	3 20.5	18.0
52708 1998 FS_{82}	14.5	X	127.77165	15.45707	84.38013	6.75276	0.1607797	0.17857040	3.1231755	21	5 15.1	19.4
52709 1998 FA_{84}	14.3	X	191.99244	300.77554	144.11406	12.36937	0.1051002	0.18339678	3.0681382	21	6 25.2	19.2
52710 1998 FS_{90}	14.8	X	27.00273	246.83754	114.33063	4.73894	0.1199947	0.27937146	2.3174730	21	12 21.2	17.6
52711 1998 FE_{104}	13.5	X	257.49516	160.59937	235.16758	9.23301	0.0717739	0.18237611	3.0795747	21	7 6.7	18.0
52712 1998 FK_{107}	13.6	X	133.72911	199.87493	321.43455	8.20583	0.0248409	0.18172817	3.0868904	21	7 24.3	18.1
52713 1998 FQ_{113}	13.1	X	90.88889	246.89847	253.16753	7.07289	0.0660389	0.17440202	3.1727441	21	5 8.4	17.5
52714 1998 FP_{115}	14.6	X	162.14876	174.30782	357.32606	9.04821	0.1968264	0.18569717	3.0427471	21	9 11.7	19.8
52715 1998 FR_{116}	14.7	X	0.30927	298.05869	288.67102	3.95582	0.1130977	0.17216750	3.2001372	21	4 19.1	18.6
52716 1998 FT_{120}	14.6	X	130.19588	139.06784	33.29649	1.77298	0.1169529	0.18315786	3.0708057	21	8 10.8	19.3
52717 1998 FV_{121}	14.8	X	55.27098	56.12644	146.55178	1.55538	0.0793127	0.17698376	3.1418138	21	6 12.7	19.0
52718 1998 FL_{126}	14.2	X	15.51927	71.69645	188.56261	18.33911	0.1672613	0.17835687	3.1256678	21	7 2.1	18.1
52719 1998 FV_{130}	15.0	X	47.96731	158.02419	14.91224	5.12567	0.1269095	0.17356773	3.1829029	21	4 28.6	18.9
52720 1998 FY_{147}	13.8	X	152.82590	11.09393	17.14477	14.06098	0.0829285	0.16927398	3.2365023	21	3 12.4	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52721 1998 FH_{148}	15.0	X	94.03678	4.21558	105.74300	3.38197	0.1747038	0.17342942	3.1845950	21	4 22.8	19.5
52722 1998 GK	14.7	X	197.86549	211.99517	33.76681	24.77553	0.1587652	0.36680279	1.9327735	21	—	—
52723 1998 GP_{2}	12.7	X	281.30771	265.55061	36.03106	17.87715	0.0634697	0.17464817	3.1697623	21	4 13.8	17.3
52724 1998 GC_{4}	13.0	X	216.79240	27.43371	108.35974	14.33569	0.0965475	0.19043587	2.9920594	21	9 29.5	17.7
52725 1998 GF_{5}	13.8	X	165.69258	326.17490	128.45801	15.84467	0.1598834	0.18042590	3.1017262	21	6 14.2	19.1
52726 1998 GY_{6}	13.7	X	271.03332	162.60340	60.80667	17.65898	0.0389373	0.20493931	2.8491755	21	—	—
52727 1998 GG_{9}	14.2	X	15.08579	198.90965	64.86084	20.55773	0.1602988	0.17756455	3.1349591	21	7 7.1	18.0
52728 1998 GW_{9}	14.2	X	75.57920	79.72411	69.70802	14.80058	0.1809224	0.17558502	3.1584772	21	5 19.5	18.4
52729 1998 GZ_{9}	14.0	X	326.18247	195.99697	98.60726	12.69209	0.0291471	0.17762785	3.1342143	21	6 5.2	18.3
52730 1998 HN_{4}	16.1	X	0.15804	266.86685	53.08186	8.25750	0.2959634	0.30676704	2.1773600	21	10 9.4	17.0
52731 1998 HU_{12}	14.3	X	137.74313	171.17178	47.98712	24.34117	0.1518640	0.18922791	3.0047794	21	10 22.3	19.3
52732 1998 HT_{15}	14.2	X	30.69759	20.68920	180.57579	10.88312	0.1290434	0.17262780	3.1944461	21	5 11.3	18.1
52733 1998 HP_{21}	14.7	X	133.27685	289.15674	200.22401	15.48766	0.1785328	0.17973485	3.1096716	21	6 24.7	20.0
52734 1998 HV_{32}	14.1	X	149.91387	282.20460	201.95656	25.87696	0.1787862	0.18058538	3.0998998	21	7 1.1	19.7
52735 1998 HR_{33}	14.1	X	70.36159	274.14829	243.71488	4.56721	0.0961443	0.17361974	3.1822672	21	5 8.8	18.3
52736 1998 HA_{61}	13.5	X	229.27045	24.92513	24.37232	16.82423	0.0535577	0.17849926	3.1240053	21	6 22.9	18.4
52737 1998 HS_{83}	14.6	X	34.02094	355.34797	177.57459	9.51708	0.0786445	0.16969451	3.2311530	21	4 5.6	18.8
52738 1998 HW_{108}	14.2	X	195.67683	332.03251	139.60220	11.32686	0.2152647	0.18361895	3.0656628	21	7 27.5	19.4
52739 1998 HP_{109}	14.0	X	114.24855	69.15564	153.35077	11.17081	0.1977175	0.18512535	3.0490096	21	10 3.6	19.0
52740 1998 HB_{113}	13.1	X	77.77077	129.33498	70.71795	12.49700	0.1052885	0.17779453	3.1322551	21	7 14.8	17.6
52741 1998 HW_{116}	13.7	X	215.66382	86.13108	59.54402	13.80225	0.1063882	0.18878017	3.0095286	21	10 8.9	18.4
52742 1998 HV_{126}	14.3	X	170.27399	202.90821	284.63728	4.92749	0.1506406	0.18341285	3.0679589	21	7 25.7	19.2
52743 1998 HW_{135}	13.0	X	156.98744	193.75822	29.83067	10.34549	0.0297202	0.19217217	2.9740098	21	11 5.8	17.3
52744 1998 HO_{136}	13.7	X	97.64668	89.87150	50.60285	11.53221	0.0437311	0.17543491	3.1602787	21	5 14.8	18.2
52745 1998 HL_{137}	13.9	X	58.27444	174.37104	46.21032	14.07298	0.1202219	0.17854504	3.1234713	21	7 18.8	18.3
52746 1998 HS_{149}	16.1	X	241.31751	27.89384	259.29495	4.22256	0.2065801	0.28798307	2.2710398	21	1 15.0	19.9
52747 1998 HM_{151}	7.9	X	322.42017	247.00052	64.11271	0.54949	0.0654685	0.00330121	44.6704405	21	6 19.9	24.2
52748 1998 JJ_{1}	15.3	X	10.78960	201.81791	229.13447	19.89222	0.0928587	0.36674471	1.9329776	21	—	—
52749 1998 KN_{8}	13.8	X	85.90723	132.32706	74.77432	22.76566	0.0670424	0.17741847	3.1366796	21	7 31.0	18.6
52750 1998 KK_{17}	16.4	X	252.98470	334.13753	141.33963	11.17115	0.5249194	0.57802522	1.4272658	21	9 13.2	16.5
52751 1998 KR_{37}	13.1	X	13.80063	206.32518	76.38835	22.95209	0.0510938	0.17692494	3.1425100	21	7 27.1	17.6
52752 1998 KH_{48}	16.0	X	334.05626	167.05225	102.39417	5.69403	0.2250590	0.29706277	2.2245247	21	4 4.5	18.1
52753 1998 KG_{56}	15.4	X	219.46022	20.36119	123.53046	24.34453	0.0547385	0.35611704	1.9712462	21	11 14.6	18.2
52754 1998 KN_{62}	13.5	X	99.59291	98.37090	53.64706	12.69520	0.2032762	0.17526632	3.1623049	21	6 22.0	18.4
52755 1998 MU	13.8	X	65.46725	5.91402	230.68294	19.21168	0.2740828	0.18014695	3.1049273	21	8 31.3	18.6
52756 1998 MY_{3}	16.3	X	104.39795	214.32070	289.55866	1.06773	0.0556079	0.29441041	2.2378653	21	5 22.9	18.9
52757 1998 MH_{4}	14.9	X	195.64313	198.09071	106.27060	25.80591	0.1836156	0.28126861	2.3070404	21	—	—
52758 1998 MN_{8}	16.0	X	232.85570	188.58477	147.82237	8.45838	0.2336817	0.29040462	2.2583974	21	3 10.3	19.7
52759 1998 MW_{13}	15.6	X	354.82143	67.23063	309.96310	4.99637	0.2368771	0.26440958	2.4040930	21	12 4.1	17.5
52760 1998 ML_{14}	17.5	X	30.91931	20.27356	338.71960	2.42824	0.6235671	0.26371654	2.4083030	21	—	—
52761 1998 MN_{14}	17.8	X	331.29827	350.44582	258.99487	19.48096	0.2240527	0.50845759	1.5546509	21	1 8.6	19.4
52762 1998 MT_{24}	14.8	X	74.34970	254.39864	309.15825	33.88116	0.6513419	0.26192047	2.4193002	21	9 1.8	19.9
52763 1998 ME_{29}	15.5	X	144.83854	99.47307	149.68854	0.98641	0.1777213	0.31419408	2.1429106	21	12 12.1	18.5
52764 1998 MC_{33}	15.3	X	18.93795	66.91673	244.84897	4.17295	0.1940020	0.30398070	2.1906452	21	10 13.0	17.0
52765 1998 MA_{36}	16.0	X	222.61763	248.35305	82.97279	6.18895	0.2378465	0.28669236	2.2778510	21	2 25.8	19.9
52766 1998 MC_{38}	15.4	X	337.09092	173.62967	146.57432	8.79544	0.2381730	0.29879941	2.2158969	21	7 4.5	16.8
52767 Ophelestes	11.8	X	312.97195	200.13808	98.46429	12.80338	0.0255442	0.08092374	5.2936119	21	5 29.5	18.7
52768 1998 OR_{2}	15.8	X	119.22157	174.56816	26.95282	5.87045	0.5736856	0.26787208	2.3833313	21	10 3.3	20.8
52769 1998 OF_{4}	16.0	X	286.26301	227.78601	139.85223	5.08731	0.1613919	0.29711097	2.2242841	21	6 23.6	18.6
52770 1998 OD_{15}	15.8	X	178.85323	14.01730	330.81957	3.47374	0.1628919	0.28114042	2.3077416	21	2 1.0	19.2
52771 1998 PX	15.9	X	241.00659	19.97460	342.35711	4.48808	0.1705393	0.29065417	2.2571046	21	4 19.4	19.3
52772 1998 PT_{1}	15.9	X	348.34053	101.36413	190.27513	1.55316	0.1507023	0.29819869	2.2188719	21	6 21.9	17.5
52773 1998 QU_{12}	15.6	X	313.21710	168.90954	183.74929	3.66297	0.2037324	0.29828162	2.2184606	21	7 9.1	17.4
52774 1998 QC_{14}	15.9	X	227.91177	180.01978	183.78574	6.97873	0.3019924	0.24533337	2.5271536	21	4 9.5	20.4
52775 1998 QQ_{18}	15.9	X	227.54581	165.49127	179.72852	1.85487	0.2187419	0.28707095	2.2758478	21	3 16.2	19.7
52776 1998 QS_{19}	16.3	X	138.50138	83.56377	272.49201	1.40433	0.1735590	0.27730525	2.3289705	21	1 4.2	19.3
52777 1998 QR_{21}	15.6	X	309.43875	98.04113	328.50604	5.69533	0.1208954	0.30540852	2.1838122	21	11 14.5	17.4
52778 1998 QV_{24}	15.1	X	131.73655	224.17999	169.51129	4.00549	0.1635540	0.27975817	2.3153369	21	2 11.9	18.1
52779 1998 QZ_{29}	15.7	X	180.47891	27.04208	292.91003	6.34983	0.1332378	0.27893274	2.3199024	21	—	—
52780 1998 QK_{31}	15.2	X	168.69821	244.55960	121.60810	7.28340	0.1267081	0.28208802	2.3025706	21	2 15.3	18.3
52781 1998 QY_{37}	15.2	X	198.22107	15.49769	335.56417	5.72104	0.1787225	0.28362928	2.2942215	21	2 26.7	18.6
52782 1998 QA_{38}	16.2	X	127.85399	349.34011	355.01506	1.94848	0.2384901	0.27458420	2.3443315	21	—	—
52783 1998 QB_{38}	15.0	X	164.35852	19.70979	336.56231	13.94145	0.1834586	0.23671532	2.5881243	21	2 10.9	19.1
52784 1998 QL_{38}	15.4	X	210.67493	37.42208	331.58195	5.57149	0.1545518	0.28677648	2.2774055	21	3 30.3	18.9
52785 1998 QN_{38}	16.4	X	154.66962	138.63688	191.73229	2.15069	0.2278958	0.27669354	2.3324018	21	—	—
52786 1998 QP_{42}	15.9	X	169.26189	0.56630	304.69116	3.43773	0.1896370	0.27604539	2.3360513	21	—	—
52787 1998 QJ_{43}	15.5	X	310.56969	266.07041	125.24458	7.06961	0.0078174	0.30214007	2.1995331	21	10 5.3	18.0
52788 1998 QA_{46}	15.0	X	9.97254	327.52715	324.75592	6.40688	0.0955364	0.29797073	2.2200034	21	8 10.5	16.9
52789 1998 QH_{47}	15.9	X	167.49246	342.60142	8.55724	7.24765	0.1326074	0.27993511	2.3143612	21	1 27.9	19.2
52790 1998 QD_{48}	15.8	X	220.21064	179.04890	225.58056	3.88475	0.1794636	0.29051070	2.2578476	21	5 26.7	19.1
52791 1998 QC_{49}	15.9	X	326.18860	257.14139	145.99997	3.62344	0.1147142	0.30379916	2.1915178	21	11 14.8	17.6
52792 1998 QY_{50}	15.7	X	156.54204	30.32905	349.90111	6.55805	0.1212438	0.28101504	2.3084280	21	2 19.8	18.8
52793 1998 QN_{51}	15.2	X	196.60472	274.18089	299.83936	2.99444	0.0074893	0.30981007	2.1630789	21	—	—
52794 1998 QS_{51}	15.8	X	184.29770	109.65482	240.81858	2.67110	0.1261829	0.28127236	2.3070199	21	2 9.4	19.1
52795 1998 QZ_{51}	15.5	X	316.52947	87.45284	208.66790	5.38268	0.1953765	0.29269827	2.2465837	21	4 17.6	17.6
52796 1998 QA_{52}	15.7	X	37.21418	96.29188	294.12811	5.27890	0.1278656	0.31051979	2.1597817	21	—	—
52797 1998 QS_{54}	15.5	X	145.86038	55.98198	315.80942	4.71058	0.2518904	0.27756005	2.3275449	21	2 11.1	18.9
52798 1998 QO_{55}	15.4	X	126.79938	94.06181	190.46609	2.49034	0.1609237	0.26485959	2.4013691	21	—	—
52799 1998 QF_{56}	15.2	X	16.04787	181.97085	173.76131	15.98853	0.2816477	0.26033512	2.4291120	21	12 19.9	18.3
52800 1998 QT_{60}	13.5	X	331.44891	127.26947	298.72563	21.90071	0.3447093	0.25699683	2.4501022	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52801 1998 QG_{63}	15.6	X	97.70621	309.79668	12.52810	6.44985	0.0818856	0.31141355	2.1556473	21	—	—
52802 1998 QP_{67}	15.1	X	224.49522	89.86705	297.73156	11.01627	0.2121689	0.24725824	2.5140208	21	5 5.0	19.6
52803 1998 QO_{71}	15.5	X	200.82574	102.40443	261.44646	5.47114	0.1560550	0.28510253	2.2863112	21	3 13.7	19.2
52804 1998 QT_{72}	15.7	X	229.47590	36.40112	284.16031	6.21769	0.1380092	0.28453054	2.2893742	21	2 14.9	19.3
52805 1998 QT_{76}	14.9	X	165.23590	273.44288	274.80747	5.92434	0.0860631	0.30293362	2.1956902	21	10 12.4	18.1
52806 1998 QE_{79}	16.1	X	241.38378	332.46113	294.04110	11.67454	0.2620542	0.28324350	2.2963042	21	—	—
52807 1998 QZ_{84}	15.8	X	306.85626	14.82396	271.67453	5.49087	0.0935811	0.29026797	2.2591061	21	4 3.4	18.6
52808 1998 QE_{86}	14.7	X	223.19607	161.00343	206.05954	17.24786	0.2319501	0.24427113	2.5344747	21	4 11.2	19.0
52809 1998 QQ_{91}	15.1	X	79.25057	222.41564	139.57709	5.31503	0.1985178	0.31149245	2.1552833	21	—	—
52810 1998 QS_{91}	14.8	X	127.01797	19.06234	5.50569	8.44181	0.2377097	0.27538505	2.3397842	21	2 9.4	17.9
52811 1998 QJ_{92}	15.4	X	168.07684	325.82719	71.50643	3.27849	0.2362226	0.28098505	2.3085923	21	4 3.9	19.2
52812 1998 QR_{92}	15.3	X	107.54061	325.71041	42.06618	11.58128	0.2653935	0.27143856	2.3624086	21	—	—
52813 1998 QT_{94}	16.0	X	147.58575	162.32370	227.64145	1.34464	0.2039912	0.28070953	2.3101027	21	3 1.9	19.3
52814 1998 QE_{98}	15.6	X	139.83658	234.27181	77.66219	3.87813	0.2574364	0.27275775	2.3547853	21	—	—
52815 1998 QP_{98}	14.9	X	74.29058	133.65432	255.93753	6.61893	0.2172964	0.26848224	2.3797190	21	—	—
52816 1998 QX_{98}	16.3	X	144.82111	215.39339	93.13325	3.22829	0.2109461	0.27319651	2.3522634	21	—	—
52817 1998 QF_{99}	15.5	X	191.50181	70.48537	38.07899	3.93800	0.0399784	0.29565489	2.2315811	21	7 30.4	18.3
52818 1998 QH_{103}	15.0	X	243.17357	320.53309	15.77053	9.32957	0.2176529	0.24384603	2.5374194	21	3 23.6	19.2
52819 1998 QK_{104}	15.4	X	189.37183	184.54613	131.53385	5.82861	0.1608291	0.27837636	2.3229925	21	1 5.9	19.0
52820 1998 RS_{2}	15.8	X	27.81762	210.10163	74.57543	2.44772	0.2032759	0.29913955	2.2142169	21	9 20.9	17.6
52821 1998 RU_{4}	15.2	X	353.31535	95.26757	359.71933	21.76200	0.3030127	0.26544807	2.3978186	21	—	—
52822 1998 RN_{6}	15.6	X	268.25416	167.21399	196.29922	6.96139	0.1553003	0.29316552	2.2441960	21	5 25.7	18.7
52823 1998 RA_{7}	15.9	X	283.23106	347.94118	165.15331	2.24133	0.0710252	0.31377698	2.1448092	21	—	—
52824 1998 RN_{16}	15.7	X	262.60128	136.54955	182.18817	6.57807	0.2213400	0.28935616	2.2638496	21	3 12.3	19.2
52825 1998 RM_{28}	15.9	X	311.60264	137.07654	165.76423	2.76610	0.1721873	0.29288630	2.2456221	21	4 25.1	18.4
52826 1998 RK_{34}	15.6	X	260.99534	12.01620	24.24721	6.51628	0.0788291	0.29556360	2.2320406	21	7 14.9	18.4
52827 1998 RY_{38}	16.4	X	73.68985	219.92210	138.70865	3.16155	0.2346087	0.26874526	2.3781660	21	—	—
52828 1998 RP_{39}	15.7	X	326.70115	14.76294	27.42994	4.83230	0.1242215	0.30355502	2.1926927	21	11 12.1	17.2
52829 1998 RP_{43}	16.0	X	87.96931	156.44509	185.56312	5.47702	0.0614433	0.31199820	2.1529535	21	—	—
52830 1998 RN_{46}	16.0	X	75.85175	10.19709	313.15421	4.50382	0.2417037	0.26616206	2.3935285	21	—	—
52831 1998 RA_{47}	16.1	X	204.43232	261.20403	209.76512	7.10178	0.1018629	0.29617273	2.2289791	21	8 10.9	19.3
52832 1998 RD_{49}	16.2	X	162.14318	136.90792	184.26234	2.33308	0.1559094	0.27576579	2.3376301	21	—	—
52833 1998 RK_{51}	15.7	X	269.61204	6.47110	284.67470	4.75784	0.1602822	0.28570427	2.2830998	21	2 16.2	19.0
52834 1998 RV_{53}	15.7	X	246.91278	147.11153	260.19900	4.48706	0.1617817	0.29345679	2.2427108	21	6 28.8	18.7
52835 1998 RN_{54}	15.6	X	276.89735	296.53435	306.65673	5.77947	0.0697784	0.27942812	2.3171597	21	1 4.8	18.8
52836 1998 RK_{55}	15.6	X	29.33843	306.16489	322.75717	5.03455	0.1541668	0.29707447	2.2244663	21	8 17.9	17.3
52837 1998 RL_{55}	15.7	X	97.47865	297.58102	318.98819	4.53541	0.1254899	0.30343696	2.1932614	21	10 31.3	18.8
52838 1998 RW_{55}	15.6	X	256.06689	95.86530	323.07241	4.26371	0.1556791	0.29538538	2.2329383	21	7 28.4	18.3
52839 1998 RZ_{55}	14.1	X	177.54916	267.91002	320.97679	4.01295	0.0909164	0.30928025	2.1655485	21	12 24.2	16.8
52840 1998 RF_{56}	15.4	X	238.26263	116.85223	259.36839	2.23191	0.0703421	0.28981003	2.2614853	21	5 15.2	18.4
52841 1998 RR_{59}	15.5	X	250.74202	336.10864	311.28877	3.57497	0.0727698	0.28158671	2.3053026	21	1 30.9	18.6
52842 1998 RV_{59}	15.9	X	338.84062	338.99459	339.08502	6.67588	0.1402423	0.29620467	2.2288189	21	7 19.5	17.6
52843 1998 RX_{62}	15.3	X	257.09179	167.59221	118.26866	2.77140	0.1954858	0.28408220	2.2917823	21	1 28.4	18.8
52844 1998 RB_{66}	14.8	X	126.52067	312.84104	190.70411	7.20034	0.0602165	0.29087366	2.2559690	21	6 23.7	17.8
52845 1998 RH_{67}	15.1	X	210.43884	228.76864	243.17023	3.62338	0.0916785	0.29598091	2.2299421	21	8 21.4	18.2
52846 1998 RL_{67}	16.1	X	300.93410	99.94440	260.84988	2.65898	0.1318150	0.29522452	2.2337493	21	7 12.3	18.3
52847 1998 RU_{67}	15.7	X	355.60713	87.82452	249.57992	2.05547	0.1796447	0.29993981	2.2102767	21	10 2.0	17.2
52848 1998 RY_{71}	15.2	X	266.89207	350.73309	17.50065	6.64517	0.1266485	0.29219035	2.2491865	21	6 1.4	18.2
52849 1998 RU_{72}	15.5	X	127.29635	76.31974	27.54644	2.36316	0.1194729	0.28512414	2.2861956	21	5 6.7	18.3
52850 1998 RG_{73}	16.0	X	115.94414	130.47707	213.17808	1.69530	0.2202255	0.27177008	2.3604871	21	—	—
52851 1998 RR_{74}	15.8	X	146.52912	69.51132	348.49786	6.62204	0.1051438	0.28216935	2.3021281	21	3 25.7	19.0
52852 1998 RB_{75}	14.9	X	226.35273	33.31884	1.89509	7.25759	0.1123693	0.28962400	2.2624536	21	5 22.1	18.2
52853 1998 RG_{76}	15.8	X	242.35090	130.83341	163.67252	8.55528	0.1528479	0.28224340	2.3017254	21	1 26.5	19.3
52854 1998 RR_{76}	16.2	X	77.32683	272.94644	61.64451	3.43814	0.2087591	0.26671318	2.3902302	21	—	—
52855 1998 RW_{76}	15.4	X	15.30926	10.29605	50.49961	5.10285	0.0343063	0.31122364	2.1565242	21	—	—
52856 1998 RD_{77}	14.8	X	191.31020	345.58845	134.42230	5.31872	0.1384411	0.29440708	2.2378822	21	8 9.4	18.0
52857 1998 RT_{78}	15.6	X	209.52792	197.46281	143.10132	7.03488	0.1570686	0.28271015	2.2991914	21	2 24.3	19.2
52858 1998 RF_{79}	15.2	X	255.42365	22.12284	51.23847	5.84202	0.1073043	0.29685384	2.2255683	21	8 28.4	17.8
52859 1998 RG_{79}	15.6	X	13.56679	236.89819	93.10684	4.01672	0.1841247	0.30153559	2.2024717	21	11 1.9	17.5
52860 1998 SX	15.9	X	271.81951	331.83762	22.71704	6.83657	0.0302798	0.28954147	2.2628835	21	6 3.7	18.7
52861 1998 SG_{4}	15.9	X	186.14290	291.42154	292.93781	2.92912	0.0901522	0.31007071	2.1618666	21	12 28.6	18.6
52862 1998 SR_{4}	15.8	X	88.98296	245.77150	212.96251	5.93020	0.1837618	0.27917999	2.3185325	21	3 15.9	18.3
52863 1998 SJ_{13}	15.3	X	57.99634	190.87940	113.25319	4.41812	0.1519600	0.30441928	2.1885406	21	11 25.0	18.0
52864 1998 SR_{21}	15.0	X	0.90948	248.83538	213.10327	6.20379	0.0643968	0.26865821	2.3786797	21	—	—
52865 1998 SH_{22}	15.6	X	200.04869	59.27493	350.03514	6.30629	0.1845716	0.28804861	2.2706953	21	5 11.4	19.3
52866 1998 ST_{23}	15.4	X	222.35087	131.93110	144.34253	7.75798	0.1127334	0.27750387	2.3278591	21	—	—
52867 1998 SD_{25}	15.3	X	339.46684	274.78143	32.24849	6.21949	0.1748460	0.29486646	2.2355573	21	6 25.5	16.9
52868 1998 SJ_{25}	15.0	X	184.20388	4.55497	109.28264	5.67200	0.0962382	0.29194511	2.2504459	21	7 25.6	17.9
52869 1998 SZ_{25}	14.8	X	99.71624	350.00982	162.10851	5.95841	0.0974463	0.28752444	2.2734542	21	6 5.9	17.6
52870 1998 SC_{26}	15.4	X	128.06708	194.11109	135.37865	5.92178	0.2448246	0.27198978	2.3592157	21	—	—
52871 1998 SR_{27}	15.1	X	70.03560	137.12044	269.53254	23.07600	0.2664332	0.27048309	2.3679687	21	—	—
52872 Okyrhoe	10.8	X	200.82518	337.62625	173.07799	15.64042	0.3031648	0.04066990	8.3744058	21	9 5.9	21.0
52873 1998 SP_{35}	16.0	X	246.07559	165.20418	33.19660	7.11851	0.0515881	0.26590113	2.3950941	21	—	—
52874 1998 SD_{36}	15.7	X	161.92463	86.19538	33.82276	5.93635	0.1049079	0.29229652	2.2486418	21	7 9.2	18.9
52875 1998 SB_{43}	16.1	X	218.99118	257.63747	189.06746	4.23569	0.1104539	0.29353728	2.2423008	21	7 25.9	19.1
52876 1998 SQ_{43}	15.9	X	70.47091	165.01729	192.12353	5.22546	0.1558588	0.26702971	2.3883410	21	—	—
52877 1998 SU_{43}	15.3	X	98.06450	332.35452	25.74134	2.60689	0.2255833	0.26835355	2.3804797	21	—	—
52878 1998 SU_{45}	16.1	X	167.03365	124.48443	169.60103	4.08779	0.1197070	0.27227112	2.3575903	21	—	—
52879 1998 SL_{50}	16.3	X	327.56803	54.18629	15.95492	6.30192	0.1613938	0.26018980	2.4300164	21	12 16.2	18.5
52880 1998 SW_{52}	15.8	X	114.58858	239.37567	218.65472	5.66597	0.0757588	0.28185636	2.3038321	21	4 4.5	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52881 1998 SN_{53}	15.7	X	44.06262	357.55438	336.98031	5.41614	0.1416406	0.30617412	2.1801702	21	12 16.7	18.4
52882 1998 ST_{53}	14.9	X	195.90693	79.14657	334.72698	6.96921	0.2414915	0.24435219	2.5339141	21	5 15.1	19.5
52883 1998 SO_{54}	15.5	X	216.55020	79.37525	189.40839	11.04557	0.1205600	0.27622636	2.3350309	21	—	—
52884 1998 SX_{54}	15.9	X	303.31791	210.22440	168.77009	5.29924	0.1871233	0.29744770	2.2226051	21	8 4.7	17.7
52885 1998 SB_{56}	15.2	X	262.50082	140.76070	175.59734	7.00247	0.2419198	0.28807161	2.2705744	21	3 7.9	18.7
52886 1998 SF_{56}	15.9	X	127.88029	157.54350	188.17573	3.62290	0.1971070	0.27385048	2.3485170	21	—	—
52887 1998 SL_{58}	15.5	X	336.28045	62.64190	180.30375	6.61632	0.1378860	0.28712494	2.2755625	21	3 12.1	17.8
52888 1998 SZ_{58}	15.7	X	190.22030	162.93367	169.16827	4.42841	0.1920324	0.23625653	2.5914739	21	2 2.4	20.0
52889 1998 SH_{61}	15.3	X	245.63923	357.45144	249.49224	6.38995	0.0848341	0.27515359	2.3410962	21	—	—
52890 1998 SL_{61}	15.1	X	265.94254	26.42022	266.19857	4.69600	0.1824890	0.28447759	2.2896583	21	2 12.6	18.7
52891 1998 SM_{61}	15.6	X	156.99924	331.22531	329.60163	4.41872	0.2263020	0.27283104	2.3543636	21	—	—
52892 1998 SR_{62}	15.0	X	196.05675	310.03666	41.09527	2.25662	0.2734465	0.27942422	2.3171813	21	3 1.3	19.0
52893 1998 SD_{63}	15.6	X	101.35526	214.11027	225.48683	6.56192	0.0944007	0.27557706	2.3386973	21	2 20.6	18.4
52894 1998 SL_{64}	14.8	X	24.03181	96.79003	108.36091	4.52513	0.0668973	0.28489413	2.2874260	21	4 19.6	17.1
52895 1998 SE_{65}	15.6	X	64.97963	331.56155	94.24343	4.98087	0.1133830	0.27204076	2.3589210	21	—	—
52896 1998 SC_{66}	15.1	X	105.20031	201.65506	132.50435	3.19093	0.2067026	0.26873670	2.3782165	21	—	—
52897 1998 SE_{66}	14.2	X	113.31722	259.09242	41.05166	11.13662	0.1389911	0.26550706	2.3974635	21	—	—
52898 1998 SO_{67}	15.8	X	20.13819	170.45626	141.01804	5.42554	0.1746179	0.29923237	2.2137590	21	10 14.9	17.8
52899 1998 ST_{67}	15.6	X	305.81791	183.20628	97.77730	5.36168	0.0695935	0.28528429	2.2853400	21	4 5.0	18.4
52900 1998 SO_{70}	15.7	X	97.51876	282.47912	178.54583	7.38945	0.2056890	0.27899656	2.3195487	21	4 8.6	18.2
52901 1998 SK_{73}	15.5	X	304.43040	161.61508	148.04232	4.54457	0.0136871	0.28846911	2.2684881	21	5 22.1	18.2
52902 1998 SN_{73}	15.7	X	320.94680	353.24916	69.77260	2.44986	0.0786647	0.30318070	2.1944971	21	12 3.3	17.4
52903 1998 SG_{74}	15.6	X	24.08102	18.45155	62.14917	4.62169	0.1051100	0.26894552	2.3769854	21	—	—
52904 1998 ST_{74}	15.3	X	263.64077	191.66283	87.49446	3.19688	0.2448827	0.28278045	2.2988103	21	1 23.7	19.2
52905 1998 SN_{75}	15.6	X	101.86156	213.69168	134.16092	3.29991	0.2513065	0.26993756	2.3711581	21	—	—
52906 1998 SW_{81}	16.7	X	103.09055	199.27393	201.30258	2.25298	0.1858432	0.27515558	2.3410849	21	1 16.8	19.0
52907 1998 ST_{82}	15.5	X	195.38080	113.25895	287.34961	4.99868	0.0562929	0.28704212	2.2760002	21	4 24.7	18.7
52908 1998 SH_{83}	16.0	X	153.34446	91.84790	195.98565	5.00914	0.2272158	0.27173585	2.3606853	21	—	—
52909 1998 SZ_{86}	14.1	X	132.34181	124.07612	213.01037	9.67427	0.0956945	0.18572537	3.0424392	21	—	—
52910 1998 SY_{91}	16.1	X	211.23703	120.41491	266.61386	3.04478	0.1236639	0.28696421	2.2764121	21	4 25.1	19.5
52911 1998 SP_{97}	15.6	X	98.91532	26.41081	14.90605	6.65003	0.1008715	0.27510084	2.3413954	21	—	—
52912 1998 SN_{100}	15.9	X	8.84184	22.40404	312.65886	3.22951	0.1903895	0.30110737	2.2045593	21	10 29.2	17.7
52913 1998 SO_{101}	16.2	X	161.63958	77.23756	352.09965	2.28191	0.1510847	0.28477207	2.2880796	21	5 1.4	19.6
52914 1998 SE_{102}	15.4	X	203.81662	53.29011	18.30881	4.67682	0.1005436	0.29061981	2.2572825	21	6 18.4	18.5
52915 1998 SC_{103}	15.5	X	159.12226	39.53730	34.06113	3.43236	0.0596976	0.28621529	2.2803814	21	4 27.6	18.2
52916 1998 SG_{105}	15.4	X	167.88129	325.60431	153.03452	7.10638	0.0208639	0.29296608	2.2452144	21	7 10.4	18.2
52917 1998 SH_{105}	15.2	X	223.69546	53.72913	137.57160	4.79425	0.0704386	0.30884650	2.1675756	21	—	—
52918 1998 SM_{106}	15.0	X	226.93836	109.70816	20.22264	5.14899	0.1561424	0.29932814	2.2132867	21	10 1.0	17.9
52919 1998 SS_{108}	16.1	X	1.11724	64.42630	270.26569	2.46316	0.2124400	0.30025481	2.2087305	21	10 15.4	17.4
52920 1998 SQ_{110}	15.3	X	102.11393	286.95451	353.23234	5.49804	0.1669663	0.30653277	2.1784693	21	12 10.4	18.7
52921 1998 SF_{113}	16.1	X	124.28791	338.58290	99.72855	4.95101	0.1051067	0.28193998	2.3033765	21	3 29.8	19.0
52922 1998 SS_{113}	16.2	X	105.61032	218.27580	154.46326	5.18941	0.2430580	0.27267165	2.3552810	21	—	—
52923 1998 SR_{114}	15.7	X	333.30248	170.88846	117.62858	3.01017	0.1344020	0.29171668	2.2516206	21	5 18.1	17.6
52924 1998 SF_{117}	16.0	X	203.29419	34.23486	341.73728	6.90342	0.1153229	0.28430451	2.2905875	21	4 1.1	19.4
52925 1998 SW_{117}	15.1	X	291.31400	299.03494	0.69324	6.70497	0.0747295	0.28668050	2.2779137	21	4 5.7	18.0
52926 1998 SY_{117}	15.5	X	22.90928	140.65067	313.89026	1.88253	0.2010958	0.26946105	2.3739526	21	—	—
52927 1998 SC_{122}	14.7	X	204.86174	65.65630	350.86536	4.33560	0.1561652	0.24472941	2.5313096	21	5 28.9	18.7
52928 1998 SX_{122}	16.2	X	91.81685	106.33000	231.67423	1.53273	0.2382264	0.26811664	2.3818818	21	—	—
52929 1998 SY_{122}	15.4	X	76.57154	20.46531	13.10139	6.82654	0.1154019	0.27068390	2.3667975	21	—	—
52930 1998 SK_{127}	15.0	X	187.95030	187.06092	149.59469	5.28613	0.2696046	0.27993000	2.3143893	21	2 4.5	19.1
52931 1998 SN_{127}	15.4	X	227.38824	316.87912	103.52402	4.77631	0.0389720	0.29231115	2.2485668	21	7 7.5	18.0
52932 1998 SQ_{129}	14.8	X	204.73592	282.51142	27.94411	6.17112	0.1591325	0.27834353	2.3231752	21	1 14.9	18.5
52933 1998 SC_{130}	15.6	X	219.05230	353.60033	12.06551	4.08262	0.1968464	0.28547269	2.2843344	21	4 4.3	19.3
52934 1998 SZ_{131}	15.1	X	334.60520	8.10130	274.74581	5.07315	0.2123221	0.29126033	2.2539718	21	4 24.4	17.2
52935 1998 SF_{132}	16.6	X	254.76378	24.91246	350.08639	6.71822	0.1287354	0.29020191	2.2594490	21	5 25.9	19.9
52936 1998 SC_{134}	15.5	X	85.74917	235.37076	184.12524	2.29357	0.2123991	0.27351038	2.3504635	21	1 18.3	17.4
52937 1998 ST_{135}	15.5	X	176.35194	174.87134	167.81229	6.74281	0.1373258	0.27790248	2.3256326	21	1 23.7	19.0
52938 1998 SW_{136}	15.5	X	128.23045	234.45489	57.64348	7.26021	0.1245256	0.26692564	2.3889617	21	—	—
52939 1998 SO_{137}	15.8	X	42.15625	359.90043	67.31985	5.32615	0.1565938	0.26943363	2.3741137	21	—	—
52940 1998 SV_{137}	15.5	X	225.12125	57.33182	30.21779	7.06247	0.1029764	0.29381930	2.2408658	21	8 8.8	18.5
52941 1998 SC_{139}	15.1	X	237.31597	49.37472	235.80971	4.15759	0.1200773	0.27838281	2.3229567	21	1 11.9	18.6
52942 1998 SU_{139}	15.3	X	285.78021	139.80402	253.01873	4.98989	0.1267958	0.29513362	2.2342080	21	8 4.8	17.6
52943 1998 SV_{139}	15.8	X	79.09907	105.62130	314.40137	4.83606	0.1645141	0.27259405	2.3557279	21	—	—
52944 1998 SO_{142}	15.8	X	52.92933	287.11413	56.37472	7.10563	0.1408549	0.26301667	2.4125734	21	12 30.5	19.1
52945 1998 SQ_{142}	15.5	X	196.36554	3.03391	118.50620	3.94152	0.1416084	0.29345921	2.2426985	21	8 17.3	18.6
52946 1998 SZ_{142}	15.5	X	350.57058	194.54983	71.95515	5.03437	0.1490088	0.29155027	2.2524773	21	5 15.2	17.3
52947 1998 SY_{144}	16.0	X	358.32058	159.93105	185.12729	5.85475	0.1456623	0.25627152	2.4547229	21	10 9.8	18.3
52948 1998 SH_{145}	16.1	X	28.07224	358.25739	30.06168	2.77183	0.2006880	0.26378096	2.4079110	21	—	—
52949 1998 SK_{145}	15.9	X	76.88745	158.79456	187.20854	1.98661	0.2240060	0.26648807	2.3915761	21	—	—
52950 1998 SB_{146}	15.1	X	32.04490	182.59240	17.13400	3.62693	0.0932518	0.28465986	2.2886808	21	4 23.3	17.3
52951 1998 SO_{147}	15.2	X	209.54391	210.13053	37.49076	9.39699	0.1628411	0.27003287	2.3706001	21	—	—
52952 1998 SU_{154}	15.2	X	146.37121	177.70811	273.06825	4.75215	0.2139024	0.24043998	2.5613264	21	5 21.3	19.4
52953 1998 SH_{170}	16.1	X	128.54660	331.43134	99.80470	7.48762	0.0756947	0.28203498	2.3028593	21	3 22.5	19.0
52954 1998 TD	15.1	X	273.84009	301.59335	347.40059	4.67763	0.1831814	0.28479690	2.2879466	21	2 18.2	18.4
52955 1998 TJ	15.6	X	223.47177	316.27527	13.41257	5.73385	0.1381341	0.28157639	2.3053589	21	2 25.2	19.0
52956 1998 TZ	16.3	X	167.84153	215.88966	43.63361	1.85996	0.1737125	0.31014940	2.1615009	21	—	—
52957 1998 TW_{1}	14.0	X	12.32670	333.59724	54.06297	10.13631	0.1438549	0.21760430	2.7375227	21	12 22.7	17.3
52958 1998 TT_{2}	15.5	X	21.16934	117.35848	342.60504	2.11383	0.1753961	0.26919898	2.3754931	21	—	—
52959 1998 TY_{2}	16.0	X	94.76636	57.50693	355.39688	2.50473	0.1504944	0.27370714	2.3493369	21	1 16.5	18.2
52960 1998 TD_{7}	16.4	X	262.93783	247.54821	181.53737	1.76783	0.0475904	0.29887145	2.2155409	21	9 8.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
52961 1998 TH_9	15.8	X	95.26183	169.13818	208.71483	1.61865	0.1532430	0.27075034	2.3664103	21	—	—
52962 1998 TS_{13}	15.9	X	323.76012	92.41430	48.54715	2.75109	0.1518219	0.26636517	2.3923117	21	—	—
52963 Vercingetorix	15.8	X	337.93282	68.52775	249.16257	2.18526	0.2134738	0.29494094	2.2351809	21	7 5.9	16.8
52964 1998 TE_{16}	16.0	X	113.46642	327.80222	345.21631	1.68752	0.1706407	0.26670065	2.3903051	21	—	—
52965 1998 TK_{17}	16.0	X	152.03280	171.52238	15.61775	5.29043	0.1221253	0.29694304	2.2251226	21	9 28.9	19.2
52966 1998 TQ_{17}	16.1	X	232.30257	300.89008	54.57110	7.69483	0.1356221	0.28487858	2.2875092	21	4 8.8	19.4
52967 1998 TV_{26}	15.4	X	147.44629	217.19734	31.16412	4.23874	0.1680653	0.26132835	2.4229532	21	12 5.7	19.3
52968 1998 TL_{28}	16.5	X	124.49749	99.39937	5.94017	2.43268	0.0871751	0.28320593	2.2965073	21	4 30.5	19.3
52969 1998 TG_{30}	15.8	X	182.22690	352.87723	30.84363	1.60029	0.2063181	0.28162945	2.3050694	21	3 27.2	19.3
52970 1998 TS_{30}	14.4	X	249.91547	327.14692	34.74438	15.72267	0.1340207	0.24387838	2.5371950	21	5 4.7	18.3
52971 1998 TQ_{31}	15.0	X	319.12097	61.96879	199.86779	7.10825	0.0970112	0.28545591	2.2844239	21	3 18.9	17.5
52972 1998 TH_{33}	15.2	X	337.06019	266.51784	43.29397	6.85456	0.1674691	0.29326209	2.2437033	21	6 25.5	16.9
52973 1998 TP_{33}	15.0	X	248.33100	278.17294	51.15476	7.27852	0.1420166	0.28427857	2.2907268	21	3 22.5	18.4
52974 1998 TE_{34}	15.6	X	1.51540	149.93068	131.38102	3.73137	0.1846916	0.29295670	2.2452623	21	7 5.9	16.7
52975 Cyllarus	9.4	X	85.82682	300.68598	51.92772	12.63649	0.3812766	0.00739543	26.0911929	21	1 21.0	24.0
52976 1998 UX_2	15.5	X	17.56201	246.35751	223.34345	7.28037	0.0687452	0.27080738	2.3660780	21	—	—
52977 1998 UE_4	14.8	X	153.39105	234.67460	126.94922	9.87037	0.2346311	0.27516389	2.3410378	21	2 4.8	18.4
52978 1998 UH_7	15.5	X	4.97729	313.72910	107.52471	5.48685	0.1288116	0.26334203	2.4105858	21	—	—
52979 1998 UL_7	14.9	X	146.67119	311.16323	74.44842	7.50434	0.1569515	0.27714009	2.3298957	21	2 22.7	18.2
52980 1998 UP_7	15.4	X	106.04467	15.22739	42.77258	7.57301	0.0958284	0.27498998	2.3420247	21	2 4.2	18.2
52981 1998 UX_{15}	15.1	X	192.14413	41.43136	48.20600	2.56848	0.1180379	0.24484462	2.5305155	21	6 30.4	18.9
52982 1998 UY_{15}	15.5	X	93.39361	328.86698	22.15129	6.67464	0.2469765	0.26892902	2.3770826	21	—	—
52983 1998 UX_{16}	14.3	X	86.07709	260.34012	88.06506	24.21793	0.2622825	0.26712970	2.3877450	21	—	—
52984 1998 UZ_{16}	15.1	X	58.50028	349.82871	148.53149	25.93196	0.2108785	0.27686435	2.3314424	21	3 31.3	17.4
52985 1998 UV_{19}	14.8	X	164.46555	112.25400	40.73686	6.76792	0.0578478	0.29267684	2.2466934	21	8 29.8	17.8
52986 1998 UE_{21}	15.2	X	213.31282	130.95032	229.20275	0.25487	0.1384477	0.28221433	2.3018835	21	3 24.0	18.7
52987 1998 UK_{21}	15.2	X	233.45422	50.41341	280.49944	4.80407	0.1839248	0.28428798	2.2906763	21	3 2.4	18.9
52988 1998 UN_{22}	15.8	X	139.23622	275.11389	223.33380	5.70682	0.1044588	0.28878506	2.2668332	21	7 6.7	18.9
52989 1998 UT_{23}	14.7	X	96.15684	78.98131	132.42554	6.11164	0.0982118	0.29460824	2.2368633	21	8 27.3	17.4
52990 1998 UP_{24}	15.5	X	49.88041	235.71707	141.37530	2.83798	0.1311591	0.26405397	2.4062509	21	—	—
52991 1998 UM_{25}	15.6	X	215.52822	201.41359	182.05121	6.23666	0.1156698	0.28541963	2.2846175	21	4 27.7	18.8
52992 1998 UB_{26}	14.7	X	189.49054	224.68680	78.05335	7.41594	0.1208096	0.27359989	2.3499508	21	—	—
52993 1998 UT_{26}	16.0	X	137.20288	272.03119	147.37421	3.71616	0.2336236	0.27893428	2.3198939	21	4 3.7	19.4
52994 1998 UY_{29}	15.9	X	230.79667	343.28761	82.34658	7.41499	0.0505754	0.29093772	2.2556378	21	7 19.4	18.7
52995 1998 UJ_{32}	14.2	X	8.18508	171.48813	225.87836	5.93590	0.1123269	0.30281569	2.1962602	21	—	—
52996 1998 UL_{32}	15.0	X	172.35014	0.29714	56.70180	7.46418	0.0360286	0.28105262	2.3082223	21	4 22.1	17.9
52997 1998 UY_{32}	15.3	X	183.03974	345.92477	43.98538	8.13339	0.2293064	0.28354263	2.2946888	21	4 7.3	19.1
52998 1998 UM_{33}	15.3	X	177.52149	59.87883	278.26616	4.05288	0.2529058	0.27846399	2.3225052	21	1 28.1	19.0
52999 1998 UQ_{34}	15.7	X	21.63447	278.07830	58.65277	6.91578	0.2115040	0.30296009	2.1955623	21	11 29.1	17.9
53000 1998 UO_{40}	14.8	X	336.84491	164.70085	344.25285	6.11409	0.0580216	0.27112840	2.3642099	21	—	—
53001 1998 UL_{42}	15.9	X	185.49095	198.41694	210.35763	6.02424	0.1022786	0.28474271	2.2882368	21	4 27.9	18.9
53002 1998 UV_{42}	15.7	X	122.16447	61.73343	254.92834	1.38604	0.2228188	0.26896801	2.3768529	21	—	—
53003 1998 UO_{48}	15.9	X	130.78757	255.63345	163.05919	6.82275	0.0900097	0.27977235	2.3152587	21	3 6.6	18.9
53004 1998 VF_2	16.2	X	260.70117	254.80885	236.06982	2.05678	0.0162855	0.25861267	2.4398859	21	11 30.8	19.3
53005 1998 VW_2	15.7	X	270.75080	265.57345	50.00517	5.71425	0.1765206	0.28478641	2.2880027	21	3 23.8	19.0
53006 1998 VD_4	15.7	X	318.90792	263.41969	178.81643	1.98981	0.1755289	0.25803847	2.4435041	21	12 16.2	17.6
53007 1998 VZ_4	16.0	X	216.93263	63.60890	162.39591	2.86315	0.1045675	0.30848459	2.1692706	21	—	—
53008 1998 VY_5	13.6	X	19.37056	293.13531	107.02756	13.90932	0.1926495	0.26098972	2.4250486	21	—	—
53009 1998 VR_6	14.7	X	329.50995	90.49785	210.98730	5.78112	0.1150901	0.28737571	2.2742385	21	6 3.6	16.9
53010 1998 VW_8	14.8	X	250.37394	326.46286	321.80630	4.07125	0.1655808	0.28021410	2.3128248	21	1 27.6	18.2
53011 1998 VH_9	15.1	X	281.24103	8.90537	64.56761	8.00423	0.1076907	0.29879215	2.2159329	21	10 9.5	17.4
53012 1998 VU_9	14.9	X	213.53049	127.89773	297.49850	2.57682	0.0854902	0.24665025	2.5181505	21	6 22.9	18.6
53013 1998 VF_{14}	13.6	X	226.65963	205.30408	19.27753	13.85678	0.1303686	0.22348941	2.6892515	21	—	—
53014 1998 VZ_{14}	15.5	X	136.99979	42.59171	248.99116	2.32238	0.1674076	0.26665853	2.3905568	21	—	—
53015 1998 VN_{18}	16.1	X	257.06528	10.79319	352.93120	4.73388	0.1355480	0.28842186	2.2687358	21	5 12.4	19.3
53016 1998 VB_{22}	15.3	X	246.00551	324.92271	9.81193	7.10448	0.1445100	0.28400004	2.2922243	21	3 24.0	18.7
53017 1998 VF_{26}	15.6	X	19.69132	84.15363	247.40258	3.38298	0.2151052	0.30067248	2.2066846	21	11 18.6	17.7
53018 1998 VO_{26}	16.0	X	55.92687	67.69758	352.30470	2.35459	0.1807593	0.26889842	2.3772629	21	—	—
53019 1998 VW_{32}	15.3	X	65.55346	238.21151	54.22800	0.77099	0.1176040	0.25568893	2.4584503	21	11 5.0	18.4
53020 1998 VH_{33}	15.5	X	310.86245	241.41052	74.89466	3.54020	0.1905302	0.28996050	2.2607029	21	5 10.9	17.8
53021 1998 VX_{36}	15.2	X	184.82584	307.80606	339.93318	2.72929	0.1510470	0.27198034	2.3592703	21	—	—
53022 1998 VU_{44}	15.3	X	82.73508	95.59297	291.33453	5.48365	0.1282549	0.26936151	2.3745374	21	—	—
53023 1998 VD_{50}	15.4	X	268.04161	254.70320	65.71100	5.83910	0.1837578	0.28559462	2.2836841	21	3 26.9	18.8
53024 1998 VZ_{50}	15.1	X	126.25074	282.78479	91.71707	6.21647	0.2637586	0.27439774	2.3453934	21	1 28.1	18.1
53025 1998 WD	14.7	X	174.16070	186.80076	206.39757	24.58698	0.2636579	0.27978299	2.3152000	21	4 2.3	18.8
53026 1998 WV_3	15.2	X	106.77714	39.42412	302.79781	3.36788	0.1726247	0.31090346	2.1580045	21	—	—
53027 1998 WM_5	15.2	X	34.45019	182.82615	49.29559	4.73488	0.0861959	0.28656919	2.2785036	21	6 18.3	17.3
53028 1998 WX_5	14.5	X	273.76211	134.69909	78.20861	3.08119	0.1045598	0.31194974	2.1531765	21	—	—
53029 Wodetzky	15.0	X	251.02113	217.10091	342.33320	6.00390	0.0366214	0.26443251	2.4039540	21	—	—
53030 1998 WC_7	15.2	X	145.31107	113.37414	261.91519	3.94269	0.1202925	0.27494272	2.3422931	21	1 29.6	18.2
53031 1998 WE_7	14.1	X	49.83488	166.89847	66.65262	15.42312	0.1344250	0.24416854	2.5351845	21	7 28.4	17.3
53032 1998 WE_8	14.7	X	150.67581	3.70031	29.27832	3.01982	0.0616891	0.27376405	2.3490113	21	2 23.6	17.8
53033 1998 WN_9	15.4	X	15.33611	20.08438	63.99992	7.40263	0.0810180	0.26608326	2.3940011	21	—	—
53034 1998 WO_{10}	15.3	X	155.23773	328.95929	54.57359	7.42784	0.1174648	0.27706674	2.3303069	21	2 25.5	18.6
53035 1998 WX_{10}	15.5	X	45.57444	254.29418	138.83496	1.71685	0.1790019	0.26492772	2.4009574	21	—	—
53036 1998 WQ_{13}	15.3	X	126.28014	12.57894	15.81445	3.36377	0.2186906	0.27418199	2.3466236	21	2 9.2	18.3
53037 1998 WZ_{13}	15.1	X	80.10015	122.65251	252.67698	5.88265	0.1086539	0.26676542	2.3899182	21	—	—
53038 1998 WT_{14}	14.9	X	43.04970	225.04761	186.19649	2.10675	0.1727480	0.26603593	2.3942850	21	—	—
53039 1998 WL_{15}	15.6	X	117.10944	359.12020	86.02380	7.31176	0.0950739	0.27851122	2.3222426	21	3 30.0	18.5
53040 1998 WN_{18}	15.3	X	324.54576	183.22556	280.52036	4.84669	0.0705033	0.26166833	2.4208540	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53041 1998 WL_{20}	14.6	X	53.02727	175.10888	41.32047	5.71667	0.1010959	0.28681313	2.2772115	21	6 29.7	16.9
53042 1998 WX_{20}	15.9	X	99.34124	31.49876	43.63125	0.52510	0.1795363	0.27522136	2.3407119	21	2 28.7	18.3
53043 1998 WY_{21}	15.7	X	315.08689	49.79173	62.92383	6.81791	0.2333050	0.26079260	2.4262704	21	—	—
53044 1998 WA_{22}	15.0	X	135.34809	228.88547	78.17566	3.45348	0.2146655	0.26748897	2.3856064	21	—	—
53045 1998 WS_{22}	15.0	X	251.83496	209.26321	78.23152	6.07705	0.1299992	0.27758844	2.3273862	21	1 31.3	18.5
53046 1998 WU_{22}	15.7	X	39.36016	166.76764	195.68938	3.04481	0.2004272	0.26160130	2.4212675	21	—	—
53047 1998 WK_{23}	14.5	X	116.73458	209.70504	50.98770	4.48537	0.1466250	0.25772433	2.4454893	21	11 22.4	18.1
53048 1998 WR_{28}	14.7	X	313.20024	265.52478	270.45085	5.66278	0.1107795	0.26370299	2.4083855	21	—	—
53049 1998 WM_{32}	14.8	X	105.94492	153.71357	290.29337	22.84336	0.2315809	0.27645052	2.3337685	21	3 15.1	18.4
53050 1998 WM_{41}	15.4	X	89.62993	351.05677	30.04503	7.34131	0.1216161	0.26893643	2.3770389	21	—	—
53051 1998 XT_{4}	14.5	X	217.92799	297.95595	79.81202	7.15312	0.1240293	0.28126939	2.3070362	21	4 24.1	18.0
53052 1998 XN_{8}	14.5	X	248.91319	241.24662	117.08325	15.06676	0.1478582	0.23670126	2.5882268	21	5 6.3	18.7
53053 1998 XH_{9}	16.5	X	64.35831	193.84673	247.21930	1.50279	0.0565976	0.27002861	2.3706250	21	—	—
53054 1998 XV_{11}	14.5	X	37.88975	292.92239	274.48869	22.69011	0.2475044	0.27842975	2.3226956	21	6 8.7	16.2
53055 1998 XT_{14}	15.8	X	26.02193	89.26864	160.37059	2.86886	0.1239749	0.28692785	2.2766044	21	7 4.6	17.9
53056 1998 XY_{14}	13.8	X	73.44660	143.59657	81.99115	17.86150	0.1131780	0.24528612	2.5274781	21	8 21.6	17.4
53057 1998 XZ_{16}	15.8	X	315.65861	30.44906	101.65983	6.85296	0.0616174	0.25963888	2.4334526	21	—	—
53058 1998 XE_{18}	15.5	X	172.43312	169.36602	65.55032	7.05506	0.0771713	0.26009968	2.4305777	21	12 17.4	18.9
53059 1998 XH_{20}	14.1	X	120.35405	341.09098	109.08239	14.99150	0.0696839	0.23159201	2.6261548	21	4 15.7	18.0
53060 1998 XM_{21}	15.3	X	111.10103	77.73689	286.09794	4.62878	0.0302870	0.21949123	2.7218108	21	—	—
53061 1998 XN_{24}	14.9	X	267.08153	167.71349	101.23935	3.70592	0.0396139	0.22629867	2.6669490	21	2 8.9	18.5
53062 1998 XH_{28}	15.1	X	316.16641	78.65488	301.22821	6.68546	0.0658614	0.29491068	2.2353338	21	9 14.4	17.4
53063 1998 XM_{29}	15.2	X	187.89095	1.29501	320.97058	6.61744	0.1377693	0.27351531	2.3504353	21	1 12.5	18.7
53064 1998 XY_{34}	15.0	X	21.64595	182.29229	284.30619	1.71658	0.1223112	0.26753191	2.3853512	21	—	—
53065 1998 XQ_{42}	14.8	X	73.70080	81.11641	55.04028	7.57408	0.0585768	0.27631404	2.3345369	21	4 1.3	17.4
53066 1998 XX_{44}	15.1	X	122.27971	55.99314	29.39998	7.41251	0.0777036	0.27664486	2.3326754	21	4 1.2	17.9
53067 1998 XY_{45}	13.9	X	11.25536	159.58128	73.85137	7.29286	0.0626929	0.28024059	2.3126790	21	5 10.3	16.2
53068 1998 XS_{47}	15.3	X	8.76933	227.24925	308.45659	11.15040	0.2002701	0.27069901	2.3667094	21	1 24.9	17.4
53069 1998 XC_{49}	14.7	X	100.67883	21.09889	86.91002	13.08005	0.1443584	0.23183554	2.6243155	21	4 23.4	18.4
53070 1998 XB_{52}	14.2	X	5.96523	283.03854	331.59314	12.94302	0.1112408	0.23765121	2.5813251	21	5 31.8	17.3
53071 1998 XO_{54}	14.9	X	81.37797	68.22606	113.72634	5.82701	0.1229092	0.28287068	2.2983214	21	6 26.8	17.4
53072 1998 XB_{61}	15.2	X	224.82883	64.07957	124.98574	5.16792	0.0602681	0.21060772	2.7978206	21	12 13.7	19.1
53073 1998 XL_{63}	15.0	X	138.62243	83.20913	292.69374	9.80922	0.1954674	0.23077546	2.6323460	21	2 7.5	18.9
53074 1998 XN_{64}	14.5	X	146.22540	221.63461	66.07017	12.52308	0.1795826	0.26442973	2.4039708	21	—	—
53075 1998 XQ_{66}	15.2	X	352.64932	139.36242	14.79675	8.34409	0.1664537	0.26865457	2.3787012	21	—	—
53076 1998 XV_{70}	15.3	X	154.36807	315.88191	73.90340	3.82096	0.2242571	0.27685133	2.3315155	21	3 13.4	18.9
53077 1998 XY_{72}	15.1	X	120.27404	129.61071	334.07525	5.55683	0.0697490	0.27862422	2.3216146	21	4 18.3	18.0
53078 1998 XX_{80}	14.6	X	15.73038	268.99247	90.91788	12.18856	0.1354153	0.21263310	2.7800257	21	11 22.4	18.0
53079 1998 XD_{81}	15.5	X	261.09483	271.14267	237.05189	6.32811	0.1625204	0.25671411	2.4519007	21	12 2.7	18.1
53080 1998 XC_{83}	15.1	X	96.31891	116.57554	247.78473	5.66290	0.1394269	0.26641197	2.3920315	21	—	—
53081 1998 XS_{86}	16.0	X	22.18470	329.15742	114.48756	3.94170	0.1641198	0.26481711	2.4016259	21	—	—
53082 1998 XV_{86}	15.0	X	6.27594	20.72275	107.42609	12.75069	0.1316714	0.22322950	2.6913385	21	—	—
53083 1998 XZ_{86}	15.3	X	163.90582	33.06846	125.87590	9.41532	0.1772418	0.24476858	2.5310396	21	9 1.9	19.5
53084 1998 XH_{89}	14.5	X	143.10852	116.27990	115.37166	7.82546	0.1143841	0.29594738	2.2301105	21	11 18.8	17.8
53085 1998 XV_{93}	13.5	X	250.10683	329.51845	229.08224	13.40622	0.1140431	0.25955008	2.4340076	21	—	—
53086 1998 XK_{95}	13.9	X	275.80314	229.19604	146.93341	14.04264	0.2100227	0.24490143	2.5301242	21	6 16.2	17.6
53087 1998 YQ	15.3	X	21.67431	70.85073	86.92591	3.30827	0.1515218	0.27038956	2.3685148	21	1 30.7	17.3
53088 1998 YF_{5}	14.9	X	101.71972	325.88566	110.69337	5.04956	0.1920825	0.22728237	2.6592483	21	3 18.3	18.4
53089 1998 YM_{5}	14.0	X	184.61928	320.48636	89.22505	14.83767	0.0616165	0.23747687	2.5825883	21	5 6.2	17.9
53090 1998 YS_{7}	13.8	X	197.52455	81.39951	329.88216	23.20448	0.2657506	0.28286267	2.2983648	21	5 3.1	18.4
53091 1998 YD_{8}	14.4	X	55.45355	89.79263	101.72898	16.01650	0.0798782	0.23562928	2.5960709	21	5 29.6	17.7
53092 1998 YA_{12}	14.3	X	19.61157	28.26724	323.26634	7.12481	0.1613789	0.25177305	2.4838759	21	11 25.2	17.2
53093 La Orotava	15.6	X	43.73312	154.53480	245.09288	1.24327	0.1129135	0.30619818	2.1800560	21	—	—
53094 1998 YW_{12}	15.4	X	17.59319	107.93969	107.06928	2.46926	0.0527688	0.23270104	2.6178042	21	4 28.2	18.4
53095 1998 YU_{16}	15.2	X	6.28671	243.25287	254.46702	1.38030	0.1243937	0.26570273	2.3962863	21	—	—
53096 1998 YK_{17}	14.7	X	261.88572	88.69278	294.79173	12.23111	0.1834686	0.24186182	2.5512783	21	6 11.9	18.5
53097 1998 YS_{17}	13.9	X	201.77240	256.45069	117.31397	13.73194	0.2091029	0.23399539	2.6081417	21	4 10.0	18.6
53098 1998 YM_{22}	15.3	X	328.03486	30.82997	135.78981	8.06916	0.1833446	0.26368442	2.4084986	21	—	—
53099 1998 YW_{29}	14.5	X	204.69250	72.63571	25.37852	9.91626	0.0679386	0.24052320	2.5607356	21	7 31.4	18.3
53100 1998 YH_{30}	14.0	X	102.07821	343.25022	119.50877	23.02142	0.0655329	0.22761124	2.6566861	21	4 11.0	18.1
53101 1999 AY	13.4	X	261.21713	330.09560	326.41795	8.55092	0.0571640	0.18520430	3.0481430	21	3 9.5	17.8
53102 1999 AZ	14.9	X	122.94008	16.87273	98.49686	14.15130	0.1447017	0.23424419	2.6062945	21	5 26.8	18.8
53103 1999 AB_{2}	15.5	X	1.00065	293.32054	124.34108	5.65413	0.0893364	0.25814767	2.4428150	21	—	—
53104 1999 AP_{3}	13.5	X	298.02239	51.56305	120.76116	18.11471	0.1081683	0.17179932	3.2047077	21	—	—
53105 1999 AT_{3}	14.3	X	38.98202	301.88866	93.72375	9.16890	0.0344936	0.21303453	2.7765322	21	—	—
53106 1999 AG_{4}	15.0	X	5.08491	129.21313	130.46541	4.13422	0.1337724	0.28129892	2.3068747	21	6 7.4	16.8
53107 1999 AU_{4}	14.5	X	231.72377	102.56192	99.28607	5.48315	0.1610927	0.21061515	2.7977548	21	12 23.7	18.3
53108 1999 AW_{4}	14.8	X	292.23971	350.45648	28.24314	3.11358	0.1493384	0.24337136	2.5407176	21	7 22.2	17.9
53109 1999 AD_{5}	14.5	X	259.79144	278.78810	126.44080	27.60302	0.1269389	0.24197692	2.5504692	21	7 16.9	18.0
53110 1999 AR_{7}	16.7	X	194.61453	58.23795	85.43499	40.62151	0.2144084	0.46731299	1.6446146	21	10 26.2	19.9
53111 1999 AJ_{8}	14.8	X	116.38908	317.29542	103.14202	11.31747	0.0666564	0.22735868	2.6586532	21	2 27.2	18.5
53112 1999 AK_{8}	14.7	X	242.09955	41.54622	336.08568	3.57892	0.2119368	0.23989732	2.5651875	21	5 10.9	18.9
53113 1999 AP_{8}	15.0	X	147.15014	4.16525	117.63110	7.71471	0.1455791	0.28478226	2.2880250	21	6 26.7	18.3
53114 1999 AV_{9}	14.5	X	274.99416	253.91218	121.78120	13.52092	0.1054790	0.23807727	2.5782445	21	6 29.4	18.0
53115 1999 AM_{14}	14.6	X	142.15730	64.32797	322.97515	1.27944	0.0890017	0.22670112	2.6637917	21	2 15.8	18.1
53116 1999 AE_{17}	15.2	X	78.25449	60.37577	142.07195	3.50619	0.0315045	0.23758485	2.5818057	21	7 6.6	18.4
53117 1999 AW_{19}	14.2	X	117.96107	15.95367	324.16875	4.34207	0.1409128	0.17084662	3.2166103	21	—	—
53118 1999 AU_{20}	15.4	X	125.59699	153.16334	59.92676	7.45909	0.1522764	0.29508398	2.2344585	21	10 9.5	18.7
53119 1999 AV_{20}	16.1	X	75.52190	46.91752	62.06232	3.05818	0.1695808	0.27578982	2.3374943	21	3 9.5	18.2
53120 1999 AE_{21}	14.8	X	355.75499	284.96994	116.27442	14.30199	0.2474674	0.25408376	2.4687936	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53121 1999 AJ_{21}	14.3	X	147.26306	232.07450	130.06058	12.78395	0.2107186	0.22585634	2.6704299	21	2 4.2	18.5
53122 1999 AS_{22}	14.7	X	241.86678	227.85599	67.21289	16.10565	0.0562522	0.22327439	2.6909778	21	2 17.1	18.9
53123 1999 AB_{23}	14.4	X	286.72450	125.71343	107.09633	14.41953	0.1578069	0.21915950	2.7245567	21	1 5.0	18.6
53124 1999 AC_{23}	13.8	X	229.49743	161.08346	131.19030	14.34642	0.1479556	0.18005092	3.1060312	21	1 28.0	18.7
53125 1999 AL_{24}	14.5	X	151.54194	288.42709	148.51005	27.55220	0.2078992	0.23698391	2.5861684	21	5 16.5	19.4
53126 1999 AO_{24}	14.0	X	5.55834	310.89858	324.28724	4.85047	0.1235291	0.19030673	2.9934129	21	7 4.8	17.5
53127 1999 AH_{25}	14.1	X	67.82015	37.55297	131.14426	2.87125	0.0357471	0.18408365	3.0605014	21	5 11.6	18.3
53128 1999 AS_{25}	13.7	X	12.30586	131.11033	142.39873	10.90045	0.0735372	0.19118111	2.9842788	21	7 11.2	17.6
53129 1999 AY_{29}	15.2	X	50.91131	310.36936	119.00344	3.15457	0.0659501	0.21808270	2.7335178	21	—	—
53130 1999 AY_{30}	14.8	X	286.26062	200.41639	128.45829	14.54270	0.2920019	0.23698420	2.5861663	21	4 21.1	19.0
53131 1999 AM_{31}	15.0	X	172.16643	304.85832	126.29303	5.66525	0.0456827	0.23316084	2.6143615	21	5 15.6	18.8
53132 1999 AS_{31}	14.2	X	49.40203	322.18537	330.99173	5.28554	0.2165685	0.24262987	2.5458914	21	10 26.8	17.5
53133 1999 AQ_{34}	14.7	X	183.10141	329.68240	146.70356	11.63439	0.1310933	0.23948118	2.5681583	21	7 24.8	18.9
53134 1999 BG_{1}	13.7	X	359.89974	136.80207	101.66755	16.75107	0.2579696	0.23389977	2.6088525	21	4 27.3	16.2
53135 1999 BA_{3}	14.8	X	165.85386	28.42002	111.41320	7.71223	0.2226505	0.23947063	2.5682337	21	8 9.7	19.2
53136 1999 BB_{3}	14.8	X	200.88811	344.87999	108.73045	7.20455	0.1856491	0.23981568	2.5657696	21	7 11.9	19.0
53137 1999 BL_{4}	15.1	X	353.32597	47.83246	146.61680	4.15121	0.1985529	0.22337548	2.6901658	21	2 5.2	17.7
53138 1999 BW_{4}	15.6	X	188.85197	147.56292	331.89253	5.77356	0.0861247	0.23964226	2.5670073	21	8 6.8	19.2
53139 1999 BG_{5}	14.3	X	329.10815	230.86663	245.26874	25.02057	0.2374122	0.21437163	2.7649748	21	—	—
53140 1999 BT_{5}	15.3	X	227.84014	246.18047	171.64687	1.76880	0.1736938	0.24047801	2.5610563	21	6 21.9	19.3
53141 1999 BW_{6}	13.8	X	318.51293	149.59130	74.51091	5.70228	0.0269285	0.21922663	2.7240005	21	2 21.1	17.5
53142 1999 BR_{7}	15.3	X	188.25749	292.83588	131.77236	8.98025	0.2035522	0.23795659	2.5791161	21	5 27.0	19.7
53143 1999 BB_{9}	14.7	X	206.84586	58.54285	320.04677	6.42112	0.0824323	0.23173094	2.6251051	21	4 12.5	18.7
53144 1999 BN_{9}	15.5	X	204.89163	24.51773	71.70367	4.74765	0.0554602	0.24140668	2.5544840	21	7 27.4	19.0
53145 1999 BT_{9}	14.7	X	209.11197	194.87533	165.07185	4.79554	0.1636979	0.23130660	2.6283147	21	3 25.4	19.0
53146 1999 BG_{10}	14.2	X	206.35840	125.02335	139.98730	8.33097	0.1825493	0.21438118	2.7648926	21	—	—
53147 1999 BB_{14}	14.0	X	29.54655	218.01421	11.75582	16.02274	0.2412189	0.22725156	2.6594886	21	6 26.5	16.8
53148 1999 BV_{14}	15.4	X	141.11775	133.82182	31.61647	0.99017	0.0613593	0.24116596	2.5561836	21	8 12.1	19.0
53149 1999 BZ_{14}	14.8	X	330.27970	304.00852	227.66501	8.12671	0.1093680	0.21882388	2.7273418	21	—	—
53150 1999 BV_{17}	15.0	X	64.54255	111.13477	88.28684	5.70317	0.0994105	0.28083937	2.3093906	21	6 22.5	17.5
53151 1999 BC_{24}	14.7	X	17.86794	256.54886	269.18070	5.25268	0.0503687	0.27121790	2.3636898	21	2 9.1	17.4
53152 1999 BH_{25}	14.4	X	173.91489	212.82202	252.69520	7.51269	0.1448102	0.23916914	2.5703915	21	7 1.8	18.5
53153 1999 BZ_{25}	15.1	X	11.86278	86.80853	341.34720	5.42256	0.0715428	0.21484038	2.7609515	21	—	—
53154 1999 BT_{27}	15.8	X	352.58093	273.63248	245.07126	2.71221	0.0561196	0.27168071	2.3610047	21	—	—
53155 1999 BB_{30}	15.4	X	334.07420	87.38267	108.91255	5.21387	0.0402249	0.22507153	2.6766341	21	2 1.1	18.9
53156 1999 CF	14.6	X	112.17778	317.66519	109.08269	12.95076	0.1777679	0.22705690	2.6610084	21	3 20.1	18.5
53157 Akaishidake	14.1	X	123.16489	95.24772	135.72162	23.32373	0.3461287	0.24106830	2.5568739	21	11 6.3	19.3
53158 1999 CW_{1}	14.1	X	276.83867	43.20082	355.97274	14.98823	0.1146792	0.24188563	2.5511109	21	8 8.1	17.5
53159 Mysliveček	15.3	X	36.60538	288.53425	156.02543	6.65458	0.0979420	0.26416670	2.4055663	21	—	—
53160 1999 CO_{4}	14.5	X	309.27834	190.60886	158.09307	14.61199	0.0669850	0.23946450	2.5682776	21	7 16.5	17.8
53161 1999 CP_{6}	14.4	X	192.88108	282.94240	131.36116	27.36498	0.2244757	0.23628295	2.5912807	21	5 24.9	19.4
53162 1999 CG_{7}	14.1	X	202.27425	321.81330	124.72715	23.06188	0.1045546	0.23902456	2.5714280	21	7 8.2	18.1
53163 1999 CK_{8}	14.7	X	215.30015	94.86396	64.02411	2.73805	0.1284064	0.20218185	2.8750226	21	10 18.5	19.0
53164 1999 CV_{9}	13.9	X	96.50706	297.56217	328.70346	14.86819	0.2107910	0.24105687	2.5569548	21	11 6.9	18.3
53165 1999 CX_{9}	13.2	X	102.43914	37.37314	143.65899	11.25773	0.0324421	0.19043856	2.9920313	21	7 9.9	17.5
53166 1999 CG_{10}	14.2	X	58.60194	186.97751	36.66008	7.04277	0.0814730	0.23320294	2.6140468	21	7 17.6	17.5
53167 1999 CJ_{10}	13.8	X	50.24321	276.05534	11.42622	14.65225	0.1138442	0.23936821	2.5689662	21	10 6.0	16.9
53168 1999 CV_{10}	12.8	X	70.75463	235.57679	139.64189	33.86453	0.2265030	0.21702981	2.7423515	21	—	—
53169 1999 CA_{18}	14.7	X	59.52692	45.13980	18.25225	6.70259	0.1152233	0.26488620	2.4012082	21	—	—
53170 1999 CH_{19}	15.0	X	330.97238	74.16080	118.54549	3.26837	0.1097941	0.26651743	2.3914004	21	1 2.7	17.9
53171 1999 CP_{21}	14.7	X	325.23155	30.33371	101.14233	5.83604	0.0506656	0.21551378	2.7551972	21	—	—
53172 1999 CQ_{21}	14.2	X	182.44602	313.32968	345.90489	6.63327	0.1309170	0.26197537	2.4189622	21	—	—
53173 1999 CF_{22}	13.2	X	354.26889	70.86135	103.67040	20.21611	0.1300029	0.17904675	3.1176337	21	2 2.4	17.2
53174 1999 CH_{28}	13.4	X	210.88681	128.15597	120.93740	23.12755	0.0588474	0.17032452	3.2231803	21	—	—
53175 1999 CP_{30}	15.1	X	70.47579	337.78264	96.92230	3.09201	0.0282871	0.22064822	2.7122878	21	1 8.1	18.5
53176 1999 CF_{31}	14.6	X	156.15938	68.14453	357.95637	5.13326	0.0269285	0.23035607	2.6355400	21	4 14.5	18.3
53177 1999 CR_{31}	13.9	X	78.29569	312.65029	342.98906	14.55748	0.1405178	0.20436133	2.8545451	21	11 13.6	18.4
53178 1999 CT_{35}	14.5	X	326.88009	115.64451	92.76604	12.08454	0.2065771	0.26549165	2.3975563	21	1 3.7	17.6
53179 1999 CB_{36}	14.5	X	198.59376	229.26219	31.95535	10.45975	0.2029134	0.25610786	2.4557686	21	—	—
53180 1999 CS_{38}	14.4	X	324.89265	123.38605	138.92325	13.65732	0.2366819	0.22652319	2.6651865	21	3 20.0	17.7
53181 1999 CT_{40}	14.3	X	103.37804	159.88254	19.29187	12.25483	0.0712758	0.23669398	2.5882799	21	7 18.5	18.1
53182 1999 CW_{40}	14.8	X	75.33345	172.16236	23.98430	11.28642	0.1568661	0.23417630	2.6067983	21	7 16.9	18.4
53183 1999 CZ_{41}	14.6	X	340.68391	310.35169	133.32630	15.95942	0.1425403	0.21171813	2.7880294	21	—	—
53184 1999 CM_{43}	14.9	X	79.59875	53.16366	42.19250	3.34083	0.1676748	0.22499500	2.6772410	21	3 7.1	17.9
53185 1999 CZ_{44}	13.8	X	129.78286	324.40791	125.45915	14.47366	0.1127623	0.23011366	2.6373905	21	5 1.0	17.9
53186 1999 CB_{45}	13.8	X	154.19989	9.48306	120.96426	11.51468	0.0521932	0.19263933	2.9691997	21	7 10.3	18.1
53187 1999 CD_{48}	14.1	X	339.82674	293.93615	332.92735	17.36497	0.2367150	0.22830673	2.6512880	21	4 7.3	17.2
53188 1999 CM_{49}	15.0	X	99.78212	129.79143	89.51776	8.75228	0.1439630	0.23892629	2.5721330	21	9 16.7	18.9
53189 1999 CR_{49}	14.5	X	190.53550	193.94676	83.54782	10.41572	0.1200085	0.21371157	2.7706651	21	—	—
53190 1999 CT_{49}	14.7	X	178.67994	338.00673	92.58422	12.22204	0.1525628	0.23451275	2.6043044	21	5 25.5	19.0
53191 1999 CU_{49}	14.4	X	30.83691	215.76679	92.33810	14.44490	0.1823743	0.24212731	2.5494130	21	10 24.9	17.7
53192 1999 CB_{50}	14.0	X	277.39318	188.86588	41.05971	4.67456	0.0198515	0.21919062	2.7242988	21	1 7.0	17.7
53193 1999 CQ_{51}	13.8	X	346.74290	215.33220	349.52478	13.51213	0.1299179	0.22354277	2.6888235	21	2 21.1	17.0
53194 1999 CA_{52}	14.7	X	69.11978	153.64863	50.67855	5.86858	0.1521777	0.23348838	2.6119160	21	7 17.1	18.0
53195 1999 CL_{53}	13.7	X	13.05613	225.28264	84.34582	5.74883	0.2501209	0.23834234	2.5763326	21	9 30.2	16.0
53196 1999 CF_{55}	14.1	X	85.15507	237.46286	357.52288	13.77131	0.0350527	0.23956028	2.5675930	21	9 3.5	17.5
53197 1999 CR_{56}	13.7	X	127.40198	18.96055	141.03580	11.03460	0.0424846	0.19165513	2.9793561	21	7 15.1	18.0
53198 1999 CO_{60}	14.2	X	33.57122	274.89550	155.09788	5.00242	0.1322292	0.26074749	2.4265503	21	—	—
53199 1999 CL_{62}	13.9	X	316.46779	348.36643	297.98605	13.82291	0.1829088	0.23173094	2.6251051	21	4 4.9	17.6
53200 1999 CZ_{63}	14.6	X	225.65816	163.08153	236.03820	4.62313	0.2027213	0.23842516	2.5757358	21	5 25.2	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53201 1999 CG_{70}	14.2	X	274.24772	32.57498	219.89745	7.07724	0.1641558	0.22037682	2.7145141	21	1 13.8	18.6
53202 1999 CX_{72}	14.7	X	255.72271	355.16879	218.50159	8.96069	0.1186718	0.21405413	2.7677083	21	—	—
53203 1999 CA_{73}	14.8	X	179.53315	201.63556	192.53282	10.92677	0.2413612	0.23163372	2.6258396	21	4 12.1	19.3
53204 1999 CZ_{73}	14.8	X	39.06298	103.45068	155.43148	15.29023	0.0934308	0.23712624	2.5851335	21	8 5.3	17.9
53205 1999 CA_{74}	14.8	X	162.25344	318.80995	155.40780	12.97817	0.0535970	0.23641302	2.5903301	21	6 28.8	18.7
53206 1999 CK_{74}	14.9	X	352.23689	167.72310	295.98041	3.44753	0.0892695	0.21454298	2.7635024	21	—	—
53207 1999 CQ_{74}	14.4	X	117.19982	286.01108	300.46275	9.35737	0.1928195	0.24142546	2.5543516	21	10 7.7	18.7
53208 1999 CE_{75}	14.4	X	140.59743	326.95701	209.07223	11.27442	0.2140249	0.19460401	2.9491817	21	8 26.9	19.5
53209 1999 CQ_{75}	14.0	X	206.25300	9.97563	245.64126	8.35075	0.1513513	0.21219429	2.7838570	21	—	—
53210 1999 CE_{76}	14.1	X	259.87349	127.51778	158.54303	11.95454	0.1694687	0.22264416	2.6960535	21	2 9.0	18.4
53211 1999 CY_{77}	14.4	X	355.25378	271.16725	291.17516	11.50004	0.1117034	0.22447232	2.6813954	21	2 25.0	17.7
53212 1999 CD_{80}	14.2	X	171.05739	238.90264	179.97932	13.51060	0.1514391	0.23185880	2.6241400	21	5 3.9	18.5
53213 1999 CU_{80}	14.6	X	341.62806	190.09096	157.65691	14.78092	0.1806644	0.24304534	2.5429892	21	9 6.6	16.6
53214 1999 CZ_{82}	15.2	X	315.81309	96.62595	49.97603	6.83018	0.0755352	0.26102918	2.4248042	21	—	—
53215 1999 CC_{83}	14.3	X	96.55631	329.98796	77.84418	13.51261	0.1362154	0.22450951	2.6810992	21	1 24.3	17.8
53216 1999 CX_{83}	14.2	X	75.25101	155.71820	94.96420	18.68496	0.1471685	0.24268563	2.5455014	21	10 6.2	18.2
53217 1999 CS_{86}	15.0	X	358.92451	11.06388	75.14816	13.61134	0.0816561	0.21545225	2.7557217	21	—	—
53218 1999 CN_{88}	14.8	X	88.79605	146.74433	81.30519	14.22101	0.1294301	0.24063252	2.5599599	21	9 17.3	18.7
53219 1999 CO_{88}	14.4	X	343.47409	141.52331	81.78733	14.67205	0.1251612	0.22755120	2.6571534	21	3 18.7	17.9
53220 1999 CM_{89}	15.3	X	29.45332	87.55130	2.18607	2.57401	0.0928439	0.21873385	2.7280902	21	—	—
53221 1999 CU_{89}	14.7	X	56.88583	338.11148	104.06777	14.72520	0.1260965	0.22180834	2.7028221	21	1 3.9	17.7
53222 1999 CX_{92}	13.9	X	317.23576	334.70781	338.40939	14.55439	0.1093467	0.23566440	2.5958130	21	5 30.8	17.4
53223 1999 CX_{93}	14.3	X	193.02084	291.58866	123.29640	10.84984	0.0741207	0.19004883	2.9961203	21	5 22.6	19.0
53224 1999 CA_{94}	15.8	X	236.04625	129.72942	22.19773	4.66477	0.1009628	0.29401602	2.2398661	21	11 18.1	18.5
53225 1999 CG_{94}	13.3	X	35.78109	271.48415	105.90279	14.79241	0.1881126	0.21163019	2.7888017	21	—	—
53226 1999 CB_{98}	15.0	X	112.91953	271.44874	337.41617	12.03220	0.1525493	0.24391262	2.5369576	21	10 28.7	19.2
53227 1999 CH_{98}	14.7	X	310.53200	67.46705	72.05479	1.52601	0.0150664	0.21278363	2.7787143	21	—	—
53228 1999 CA_{100}	14.9	X	40.87401	50.30662	28.08856	8.03802	0.0691482	0.21684932	2.7438730	21	—	—
53229 1999 CL_{100}	15.0	X	23.84148	327.67736	150.24087	8.96062	0.1849990	0.21977363	2.7194787	21	—	—
53230 1999 CP_{103}	15.0	X	198.58708	249.54195	238.03229	9.43137	0.1275694	0.24339005	2.5405876	21	8 20.8	19.1
53231 1999 CN_{112}	14.5	X	110.53126	307.96309	206.86441	10.38043	0.0459814	0.19027400	2.9937561	21	6 18.2	18.9
53232 1999 CD_{113}	14.0	X	288.00028	63.73742	263.08254	6.34020	0.0774385	0.18914960	3.0056086	21	5 17.1	18.1
53233 1999 CO_{117}	13.7	X	257.77210	85.64079	321.55097	12.57310	0.1846844	0.24059120	2.5602531	21	7 10.8	17.5
53234 1999 CU_{117}	14.5	X	95.08673	315.52928	261.62072	10.39717	0.2092818	0.23634475	2.5908289	21	9 5.5	18.7
53235 1999 CZ_{117}	14.2	X	30.32362	290.66127	289.85444	4.66822	0.1119326	0.22999767	2.6382772	21	5 28.7	17.0
53236 1999 CC_{118}	14.4	X	57.83604	294.12413	310.68443	13.06022	0.2037658	0.23418030	2.6067686	21	8 29.3	17.8
53237 Simonson	13.6	X	82.59397	152.89193	253.89042	15.92573	0.2544611	0.17815261	3.1280565	21	1 24.1	17.8
53238 1999 CM_{121}	14.0	X	339.64838	181.34641	93.31653	30.58698	0.0537752	0.23455486	2.6039927	21	5 30.3	17.6
53239 1999 CE_{123}	14.3	X	132.00638	165.71377	24.14611	13.44166	0.0751767	0.24176067	2.5519899	21	9 9.5	18.1
53240 1999 CT_{126}	14.3	X	133.39389	105.38341	57.18547	14.64742	0.0393128	0.23758969	2.5817707	21	7 31.3	18.1
53241 1999 CU_{128}	14.8	X	89.75705	136.25221	106.98682	14.56418	0.1176193	0.23888023	2.5724636	21	10 6.2	18.8
53242 1999 CH_{138}	14.6	X	134.89490	152.69259	196.62114	1.19892	0.1746533	0.21544680	2.7557682	21	1 4.5	18.6
53243 1999 CW_{140}	14.9	X	224.27429	267.98485	131.49709	5.84967	0.2291445	0.23984211	2.5655812	21	5 24.3	19.3
53244 1999 CY_{145}	14.9	X	55.27955	82.48318	319.17720	1.36299	0.0618196	0.21303721	2.7765089	21	—	—
53245 1999 CH_{152}	15.4	X	296.79327	58.41485	328.56823	0.93192	0.1464892	0.19923241	2.9033277	21	8 7.8	18.9
53246 1999 DA_{2}	14.9	X	125.17424	119.81384	67.87334	5.29720	0.1044660	0.23840971	2.5758472	21	8 28.6	18.7
53247 1999 DE_{2}	13.3	X	177.50485	75.34340	329.12624	11.63757	0.1861819	0.22916926	2.6446313	21	4 15.2	18.0
53248 1999 DA_{3}	14.0	X	152.51745	145.78202	113.63849	8.44501	0.0410084	0.20451344	2.8531295	21	12 17.8	18.2
53249 1999 DD_{3}	15.2	X	277.87725	109.48782	142.05355	5.63323	0.1157976	0.21965982	2.7204179	21	1 22.3	19.2
53250 Beucher	14.8	X	87.82354	325.19942	352.57784	1.44402	0.0170115	0.20754678	2.8252619	21	12 12.6	18.6
53251 1999 EV_{3}	14.6	X	17.78767	292.32735	329.91364	9.66131	0.0589057	0.19142166	2.9817782	21	7 5.6	18.5
53252 Sardegna	14.6	X	232.60617	139.83151	128.60221	9.91661	0.2032132	0.21401925	2.7680089	21	—	—
53253 Zeiler	14.6	X	131.27197	20.57723	47.60364	2.48531	0.0724041	0.22525069	2.6752146	21	3 25.8	18.4
53254 1999 ES_{10}	14.7	X	58.02976	68.36661	176.24853	9.60833	0.0130447	0.19222422	2.9734728	21	7 30.7	18.9
53255 1999 EE_{11}	14.0	X	241.50139	270.47733	13.11616	8.69882	0.0401088	0.17215227	3.2003259	21	2 8.9	18.7
53256 Sinitiere	14.3	X	99.28868	100.59136	151.19221	5.57147	0.1891984	0.23925503	2.5697764	21	10 28.9	18.3
53257 1999 FF	14.2	X	313.98627	342.32864	39.58726	2.30701	0.1085384	0.19560065	2.9391552	21	9 3.3	17.7
53258 1999 FN	14.2	X	18.24317	12.32639	198.30795	13.36391	0.1190770	0.22501639	2.6770713	21	4 24.5	17.1
53259 1999 FQ_{1}	14.6	X	341.21043	131.75812	172.87074	9.81333	0.0698530	0.19051832	2.9911961	21	7 4.4	18.6
53260 1999 FX_{1}	14.7	X	334.76705	228.00272	346.97241	4.57393	0.1033357	0.17794201	3.1305242	21	2 26.2	18.6
53261 1999 FR_{4}	14.8	X	66.77263	296.98521	12.98934	1.98340	0.0599530	0.19865275	2.9089728	21	11 11.4	18.9
53262 1999 FE_{6}	15.5	X	235.19257	106.15277	332.77485	2.80258	0.2010547	0.24396526	2.5365926	21	7 24.9	19.5
53263 1999 FW_{6}	14.1	X	350.50984	281.35330	14.22849	9.15701	0.1278849	0.18585202	3.0410568	21	7 6.9	17.8
53264 1999 FL_{8}	14.4	X	139.91085	5.25287	171.86766	16.02092	0.1263371	0.23753838	2.5821424	21	8 27.9	18.4
53265 1999 FB_{11}	14.3	X	298.72654	341.01623	24.83310	11.08023	0.0579343	0.18950842	3.0018135	21	7 29.7	18.5
53266 1999 FY_{11}	14.9	X	208.39714	242.12668	150.13667	1.34657	0.1777246	0.18696544	3.0289713	21	5 5.4	20.0
53267 1999 FP_{17}	14.1	X	308.58830	143.15140	175.82645	1.33282	0.0736543	0.22904246	2.6456073	21	6 3.7	17.5
53268 1999 FU_{18}	14.2	X	52.34379	174.45305	10.30933	4.86229	0.1402662	0.18312327	3.0711924	21	5 22.0	18.0
53269 1999 FY_{18}	15.3	X	39.56776	346.39930	196.60338	4.29113	0.2329542	0.22634590	2.6665780	21	5 5.5	17.6
53270 1999 FR_{22}	14.2	X	132.03728	288.27994	243.19530	1.22769	0.0065676	0.23804565	2.5784728	21	8 2.9	17.7
53271 1999 FJ_{24}	14.5	X	0.23240	246.90229	345.86851	12.84544	0.2237718	0.22461808	2.6802352	21	4 7.8	17.0
53272 1999 FK_{24}	13.6	X	263.27615	292.01892	352.07386	13.25552	0.2512348	0.17200426	3.2021616	21	2 14.1	19.0
53273 1999 FZ_{24}	13.4	X	6.68329	126.73528	163.60481	10.71653	0.0703264	0.18923002	3.0047570	21	7 24.1	17.4
53274 1999 FH_{25}	14.5	X	136.84727	138.82769	119.98466	6.05136	0.0928914	0.24553195	2.5257908	21	12 7.5	18.3
53275 1999 FN_{31}	13.8	X	107.45612	272.66019	40.22293	6.57896	0.0595256	0.20373858	2.8603589	21	—	—
53276 1999 FO_{32}	14.0	X	201.80351	15.90760	28.33029	9.43970	0.0872171	0.22828648	2.6514448	21	5 11.6	18.0
53277 1999 FU_{32}	13.4	X	217.13221	306.25098	191.53177	8.22075	0.0246454	0.23906814	2.5711155	21	10 9.0	16.8
53278 1999 FH_{33}	14.9	X	296.25718	319.46107	178.91743	8.02099	0.1696682	0.21088867	2.7953351	21	—	—
53279 1999 FJ_{33}	14.9	X	28.88148	14.62303	163.04272	4.16683	0.1047977	0.22372277	2.6873811	21	3 27.2	17.7
53280 1999 FN_{33}	14.3	X	240.00246	323.81762	4.23826	5.63574	0.0313529	0.22297477	2.6933879	21	3 23.7	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53281 1999 FS_{33}	14.2	X	193.89600	223.87267	163.68858	9.49556	0.1629118	0.22572182	2.6714909	21	4 16.7	18.6
53282 1999 FT_{34}	14.8	X	159.80862	173.96865	313.91714	1.51527	0.1607024	0.23445793	2.6047103	21	7 18.1	18.9
53283 1999 FG_{42}	14.7	X	123.21957	284.99545	134.35219	4.95870	0.0944930	0.22428905	2.6828558	21	3 8.1	18.3
53284 1999 FK_{47}	13.5	X	319.91642	44.70160	321.77860	6.96971	0.2140700	0.24094328	2.5577583	21	8 12.5	15.8
53285 Mojmír	14.8	X	135.20819	310.55857	286.28995	2.71610	0.1250545	0.19819624	2.9134379	21	11 2.0	19.3
53286 1999 FH_{57}	14.0	X	225.44619	237.36804	163.78120	14.62208	0.1035090	0.23376843	2.6098295	21	6 5.4	18.2
53287 1999 GR	13.8	X	309.83577	319.58927	5.62689	8.95740	0.0864166	0.18722594	3.0261611	21	6 12.7	18.0
53288 1999 GO_{1}	14.2	X	147.51892	300.32468	339.40388	1.20948	0.0347387	0.20669590	2.8330102	21	—	—
53289 1999 GD_{5}	14.3	X	203.21091	6.19125	133.76629	7.12051	0.1882131	0.24154599	2.5535018	21	9 12.7	18.5
53290 1999 GY_{8}	14.4	X	166.74926	113.81811	134.18181	4.73553	0.0620135	0.20218574	2.8749858	21	12 18.3	18.7
53291 1999 GQ_{10}	14.7	X	37.89395	42.19746	119.35216	0.28585	0.1474944	0.17876748	3.1208797	21	3 30.2	18.2
53292 1999 GY_{10}	14.7	X	320.37477	158.73856	49.68794	2.01244	0.1367485	0.17309842	3.1886534	21	1 26.4	18.9
53293 1999 GA_{14}	14.7	X	50.78909	357.72394	166.77775	1.38249	0.0952071	0.18105933	3.0944878	21	4 19.0	18.5
53294 1999 GS_{16}	14.0	X	255.33037	215.84152	18.24027	9.32270	0.0967803	0.21377636	2.7701052	21	—	—
53295 1999 GX_{20}	14.0	X	130.61832	198.21172	67.06699	16.08801	0.1543212	0.24359310	2.5391755	21	12 8.4	18.1
53296 1999 GJ_{23}	14.6	X	47.97242	111.34679	15.53981	3.28082	0.0989109	0.22152107	2.7051584	21	2 18.1	17.6
53297 1999 GR_{23}	14.8	X	92.29086	330.47730	178.28697	3.11325	0.2166762	0.23015656	2.6370628	21	6 11.2	18.4
53298 1999 GF_{25}	13.6	X	234.90538	8.68543	125.60052	3.21545	0.0048705	0.19972954	2.8985081	21	10 25.9	17.5
53299 1999 GJ_{26}	14.6	X	180.50485	121.71112	137.86370	2.74753	0.0233079	0.20700430	2.8301957	21	—	—
53300 1999 GD_{31}	14.8	X	135.62586	8.27822	142.89676	2.89918	0.2441417	0.18933242	3.0036735	21	7 28.6	19.9
53301 1999 GL_{34}	14.9	X	88.47214	307.17137	306.56532	3.50615	0.2010159	0.23772100	2.5808198	21	10 18.2	18.9
53302 1999 GZ_{34}	14.1	X	73.97184	225.48924	11.05161	15.22430	0.0815339	0.23521625	2.5991091	21	8 31.6	17.7
53303 1999 GF_{45}	13.9	X	275.51677	227.00242	86.92440	10.66342	0.0442452	0.18037795	3.1022759	21	4 25.6	18.4
53304 1999 GQ_{47}	14.0	X	24.21163	217.22408	22.67268	12.03794	0.1400089	0.23047421	2.6346393	21	6 16.8	17.0
53305 1999 GQ_{53}	13.8	X	25.09708	328.17315	253.18915	7.72519	0.1097123	0.22671114	2.6637133	21	5 20.7	16.7
53306 1999 HA_{3}	13.9	X	173.55123	123.73248	45.44198	11.21586	0.0528320	0.19155155	2.9804301	21	9 24.8	18.4
53307 1999 HC_{8}	14.6	X	243.71928	33.12417	48.50976	1.62119	0.0992977	0.23935809	2.5690387	21	8 19.3	18.1
53308 1999 HJ_{8}	13.9	X	73.84839	275.25251	319.03535	6.12696	0.1817660	0.23430590	2.6058370	21	9 4.5	17.4
53309 1999 HT_{8}	14.4	X	187.66108	352.91355	207.33625	11.94406	0.0209167	0.20054094	2.8906845	21	11 16.9	18.5
53310 1999 HY_{9}	13.9	X	335.55331	316.80471	18.73620	8.24915	0.0463485	0.18965588	3.0002573	21	8 12.1	17.9
53311 Deucalion	6.6	X	305.30927	242.35194	51.36216	0.37243	0.0655719	0.00336091	44.1398706	21	5 13.2	22.9
53312 1999 JZ	13.7	X	327.84701	35.17690	63.03680	26.69746	0.3470996	0.21498820	2.7596857	21	—	—
53313 1999 JF_{2}	14.4	X	27.26265	47.53275	172.27466	10.24737	0.0903559	0.18214740	3.0821521	21	5 26.7	18.4
53314 1999 JT_{2}	14.4	X	321.03424	122.44160	121.15518	13.78684	0.1625163	0.21907949	2.7252200	21	3 2.5	18.0
53315 1999 JD_{3}	14.0	X	358.81894	132.13399	140.02093	12.26725	0.1709670	0.22565391	2.6720268	21	6 16.8	16.8
53316 Michielford	14.3	X	159.22098	174.47420	102.89918	3.26464	0.0948125	0.20168586	2.8797343	21	—	—
53317 1999 JJ_{6}	13.3	X	57.21284	33.07602	86.99661	35.75392	0.1989001	0.21967477	2.7202945	21	3 30.0	17.3
53318 1999 JV_{7}	14.0	X	55.98655	292.35442	246.54995	11.62973	0.1142904	0.22309169	2.6924467	21	5 13.8	17.2
53319 1999 JM_{8}	15.2	X	325.50597	166.83519	133.61956	13.84213	0.6417352	0.21917757	2.7244069	21	3 8.4	19.4
53320 1999 JW_{8}	14.1	X	325.92742	226.83106	85.54708	10.66210	0.1278498	0.18265261	3.0764660	21	6 15.9	17.7
53321 1999 JL_{12}	14.6	X	347.04955	19.43114	144.84102	9.80788	0.1263420	0.21483008	2.7610397	21	—	—
53322 1999 JK_{15}	14.5	X	28.59896	72.71137	162.41649	11.71358	0.2709287	0.22605130	2.6688943	21	7 6.4	17.0
53323 1999 JV_{16}	13.7	X	40.24571	247.31592	56.28055	10.49174	0.0512665	0.19107971	2.9853407	21	10 3.5	17.8
53324 1999 JZ_{18}	14.0	X	70.18426	38.36897	240.22240	10.65270	0.1310392	0.19315590	2.9639036	21	10 14.6	18.3
53325 1999 JN_{21}	13.9	X	8.44108	69.50737	230.35591	8.34044	0.1209580	0.18757505	3.0224051	21	8 9.1	17.6
53326 1999 JV_{22}	14.4	X	107.05283	285.31076	227.86042	3.37818	0.1250258	0.18436384	3.0573997	21	6 22.6	18.9
53327 1999 JL_{23}	14.4	X	276.46797	24.29759	217.82328	11.18096	0.2385298	0.21363942	2.7712888	21	—	—
53328 1999 JS_{26}	14.6	X	129.72492	54.06627	44.95368	13.67715	0.2451892	0.22649087	2.6654401	21	5 18.9	18.9
53329 1999 JK_{27}	14.3	X	86.72874	201.51463	92.74123	3.58766	0.0606466	0.19709960	2.9242347	21	11 16.8	18.4
53330 1999 JN_{32}	13.8	X	355.13036	75.97498	210.21608	11.16966	0.0729714	0.18407902	3.0605527	21	6 30.4	17.9
53331 1999 JW_{34}	13.1	X	116.93754	166.66380	37.15480	11.41785	0.0284082	0.18935807	3.0034023	21	9 1.5	17.5
53332 1999 JL_{36}	15.2	X	325.53956	351.98671	200.15606	3.28577	0.1684024	0.21521297	2.7577640	21	—	—
53333 1999 JZ_{36}	13.9	X	160.17584	125.43791	51.53942	10.43346	0.0209172	0.19150370	2.9809265	21	9 19.3	18.3
53334 1999 JJ_{41}	14.5	X	92.72606	330.38318	213.94267	10.03624	0.0274844	0.18298920	3.0726923	21	6 30.3	19.0
53335 1999 JL_{41}	13.8	X	60.43776	1.66546	203.50803	11.10978	0.0784779	0.18270198	3.0759118	21	6 22.4	18.1
53336 1999 JP_{42}	13.2	X	25.76976	54.30125	227.03970	12.60565	0.1651871	0.18619236	3.0373498	21	8 16.4	17.0
53337 1999 JX_{42}	14.5	X	19.39859	264.04393	251.30441	7.12061	0.1313837	0.21745976	2.7387356	21	2 4.6	17.7
53338 1999 JY_{46}	14.2	X	128.87818	147.59760	186.71634	2.03806	0.0582209	0.20571240	2.8420327	21	—	—
53339 1999 JA_{47}	13.9	X	100.63415	201.35631	77.67074	3.08526	0.0747690	0.19589770	2.9361832	21	11 15.1	18.1
53340 1999 JH_{47}	13.9	X	210.76276	9.89824	51.96032	17.91796	0.0170268	0.18308448	3.0716261	21	6 18.4	18.4
53341 1999 JP_{49}	13.9	X	244.00968	21.93963	61.93821	11.89348	0.0822911	0.18973322	2.9994420	21	8 27.2	18.4
53342 1999 JK_{51}	14.7	X	198.57845	81.52201	70.74114	6.49049	0.2261328	0.24015519	2.5633509	21	9 23.1	19.0
53343 1999 JO_{54}	13.3	X	41.45692	4.59320	253.02055	11.75236	0.1301671	0.22932931	2.6434007	21	8 8.3	16.7
53344 1999 JX_{54}	13.9	X	35.81784	326.81261	237.22243	11.99751	0.1147450	0.22376037	2.6870801	21	5 15.7	17.0
53345 1999 JZ_{54}	14.5	X	12.32585	283.88577	243.90232	4.84539	0.1716517	0.21770633	2.7366673	21	2 6.8	17.3
53346 1999 JE_{57}	14.0	X	214.20367	306.67521	195.39010	9.08434	0.1616966	0.19475030	2.9477046	21	9 21.3	18.8
53347 1999 JE_{58}	13.4	X	10.32182	309.17710	252.88412	12.93440	0.1865895	0.17560494	3.1582383	21	3 28.0	17.1
53348 1999 JC_{59}	13.9	X	141.89687	90.67855	76.11680	14.36889	0.0949722	0.23220761	2.6215114	21	8 21.8	18.1
53349 1999 JM_{61}	13.8	X	50.32234	136.65705	78.70531	10.71038	0.1137939	0.18141294	3.0904654	21	6 26.4	17.7
53350 1999 JD_{65}	14.1	X	260.18277	50.14041	33.75427	12.90915	0.0808402	0.19498828	2.9453057	21	9 16.8	18.3
53351 1999 JF_{66}	14.2	X	345.61587	37.28467	162.00746	7.44133	0.1191130	0.17456901	3.1707204	21	2 20.2	18.2
53352 1999 JL_{67}	14.5	X	316.00031	187.57679	48.01845	9.56267	0.0732795	0.21897700	2.7260703	21	2 28.3	18.2
53353 1999 JC_{70}	13.8	X	117.71987	189.45316	58.44485	14.38957	0.1248583	0.19564891	2.9386718	21	11 1.9	18.5
53354 1999 JG_{70}	13.8	X	276.96389	263.99174	68.39601	6.85334	0.1728801	0.18013228	3.1050959	21	4 30.2	18.3
53355 1999 JD_{71}	13.7	X	135.90895	79.23472	84.69485	11.05604	0.0487641	0.18802715	3.0175583	21	8 2.5	18.2
53356 1999 JJ_{71}	13.4	X	121.93873	288.57344	137.29064	7.90572	0.1947691	0.17555760	3.1588061	21	4 3.6	18.3
53357 1999 JM_{73}	14.2	X	69.17255	279.44478	201.07091	11.71011	0.1215020	0.21962705	2.7206885	21	3 14.9	17.6
53358 1999 JO_{73}	13.4	X	22.80783	71.77945	75.99254	11.70980	0.1084101	0.17230349	3.1984532	21	2 19.8	17.5
53359 1999 JM_{74}	14.0	X	234.90100	357.53237	73.42630	11.53886	0.0726190	0.18823942	3.0152894	21	7 28.2	18.5
53360 1999 JU_{75}	13.8	X	307.47349	219.52093	334.43237	7.58645	0.1084011	0.21404289	2.7678052	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53361 1999 JF_{76}	14.7	X	7.98887	266.61928	251.46257	2.58935	0.1174766	0.21635997	2.7480087	21	1 23.4	17.9
53362 1999 JY_{76}	13.4	X	10.45192	252.34573	73.13514	14.37781	0.1776310	0.19027860	2.9937078	21	10 4.9	17.0
53363 1999 JD_{77}	14.4	X	145.78155	40.89858	81.91260	13.13225	0.1309777	0.23043602	2.6349303	21	6 25.7	18.3
53364 1999 JL_{77}	13.1	X	55.17967	92.56894	184.42094	9.67115	0.0480943	0.18969490	2.9998459	21	9 12.7	17.3
53365 1999 JO_{78}	13.6	X	329.36917	325.08250	113.80817	15.12441	0.0138913	0.24660507	2.5184580	21	12 23.4	16.8
53366 1999 JU_{79}	13.5	X	5.35181	79.66880	120.25641	26.35936	0.2113517	0.17557739	3.1585687	21	3 30.3	17.4
53367 1999 JR_{80}	13.8	X	2.35455	164.47713	91.81339	17.02210	0.2170728	0.17983966	3.1084633	21	6 3.2	17.0
53368 1999 JF_{81}	13.6	X	339.56942	48.63236	210.84054	12.91702	0.1552391	0.22039695	2.7143488	21	4 19.7	16.5
53369 1999 JQ_{81}	15.4	X	65.87782	132.22600	109.65450	7.33822	0.2113390	0.27718101	2.3296664	21	9 18.0	18.4
53370 1999 JY_{81}	14.7	X	301.33609	148.33958	82.88909	14.05602	0.1702077	0.21640217	2.7476514	21	1 18.6	18.7
53371 1999 JA_{83}	14.3	X	58.05185	39.77485	120.77433	14.35022	0.1161983	0.22338960	2.6900525	21	4 29.2	17.8
53372 1999 JB_{83}	14.6	X	272.62527	126.83902	104.49367	13.70224	0.2018054	0.21212645	2.7844505	21	—	—
53373 1999 JP_{83}	15.1	X	59.03767	340.34832	198.22876	12.17039	0.2073920	0.22532837	2.6745998	21	6 3.5	18.3
53374 1999 JC_{84}	13.6	X	342.74961	38.25434	105.50996	14.22479	0.1075144	0.21075780	2.7964922	21	—	—
53375 1999 JF_{86}	14.7	X	15.56838	82.65694	94.60390	9.93799	0.1438823	0.22112900	2.7083550	21	3 6.6	17.7
53376 1999 JJ_{86}	13.7	X	53.00625	64.77802	113.64394	9.64923	0.1639751	0.18121714	3.0926910	21	5 22.0	17.6
53377 1999 JQ_{86}	14.2	X	157.29650	162.36134	122.77587	3.01073	0.0386109	0.20521010	2.8466685	21	—	—
53378 1999 JO_{87}	13.8	X	321.01134	126.65013	152.24655	11.46808	0.0545830	0.18084063	3.0969822	21	5 8.0	18.1
53379 1999 JZ_{88}	14.9	X	7.54652	98.73504	114.10930	10.80789	0.0950855	0.22283451	2.6945180	21	4 14.1	18.2
53380 1999 JS_{89}	14.0	X	357.63265	126.02453	146.60562	12.40009	0.0922198	0.18329735	3.0692476	21	6 18.2	18.0
53381 1999 JK_{90}	14.4	X	282.07740	123.25826	121.61960	12.88210	0.1377709	0.21490004	2.7604405	21	1 17.5	18.4
53382 1999 JL_{91}	13.6	X	267.59039	5.47684	96.48296	17.76323	0.1313349	0.19754335	2.9198538	21	10 16.2	17.9
53383 1999 JO_{91}	13.8	X	301.24335	138.58133	149.51902	11.34984	0.1825277	0.17646362	3.1479845	21	4 4.8	18.3
53384 1999 JY_{92}	13.9	X	19.60581	3.17625	157.57156	14.37602	0.0803955	0.17304819	3.1892704	21	2 26.3	17.8
53385 1999 JB_{93}	13.7	X	317.33985	94.99988	119.76154	16.93987	0.0797984	0.17125662	3.2114744	21	2 7.9	18.1
53386 1999 JF_{93}	13.8	X	31.77296	337.30424	186.82540	14.66621	0.0998462	0.17492504	3.1664167	21	3 20.4	17.7
53387 1999 JF_{94}	13.4	X	60.60950	295.65530	177.87535	14.74586	0.1295703	0.17273520	3.1931218	21	3 2.9	17.5
53388 1999 JZ_{95}	14.1	X	201.59603	285.75052	114.34525	14.05378	0.1567049	0.22337419	2.6901762	21	5 12.2	18.7
53389 1999 JZ_{96}	14.3	X	166.70178	39.68917	112.95443	12.13490	0.1198270	0.18928921	3.0041306	21	8 25.2	19.1
53390 1999 JM_{100}	14.6	X	57.22452	33.11197	146.12860	13.11553	0.1088780	0.22319430	2.6916215	21	5 20.3	18.1
53391 1999 JX_{100}	13.6	X	66.27598	313.99707	197.25749	27.11711	0.1634912	0.17627271	3.1502571	21	5 5.8	17.8
53392 1999 JZ_{100}	14.2	X	113.91219	83.15508	138.34488	12.64100	0.0524771	0.18919416	3.0051367	21	9 20.1	18.6
53393 1999 JA_{102}	15.0	X	313.85516	100.22128	137.77870	5.10873	0.2012179	0.21837592	2.7310703	21	2 4.8	18.8
53394 1999 JD_{102}	14.9	X	15.81597	106.27005	187.89742	7.08341	0.0419387	0.18831457	3.0144871	21	8 9.9	19.0
53395 1999 JZ_{102}	14.9	X	153.73140	104.27322	130.79321	6.25368	0.0759336	0.19835227	2.9119099	21	11 19.9	19.4
53396 1999 JL_{104}	14.1	X	141.57582	341.64867	127.45885	9.85914	0.0521865	0.18369081	3.0648632	21	5 31.5	18.7
53397 1999 JJ_{107}	14.3	X	204.07775	254.74457	226.79885	9.47423	0.0357361	0.19071350	2.9891549	21	8 22.7	18.9
53398 1999 JM_{111}	14.4	X	31.48478	48.24262	139.39058	5.86690	0.1047256	0.17661910	3.1461368	21	4 22.7	18.3
53399 1999 JG_{112}	14.0	X	320.81192	2.63099	58.74888	2.89664	0.1290044	0.19699539	2.9252658	21	11 4.6	17.2
53400 1999 JB_{113}	14.2	X	19.68200	255.86118	22.36493	9.79066	0.0600958	0.18539026	3.0461043	21	8 1.2	18.3
53401 1999 JT_{115}	13.5	X	326.61251	98.21336	229.25023	14.89032	0.0393559	0.18467756	3.0539362	21	7 12.6	17.9
53402 1999 JG_{119}	13.0	X	252.87183	293.75324	56.59262	14.33004	0.1487999	0.17694973	3.1422166	21	4 30.5	17.8
53403 1999 KM	13.8	X	330.52698	274.00369	86.08409	16.23470	0.0151143	0.19076989	2.9885658	21	9 12.7	18.2
53404 1999 KX	14.2	X	173.19593	172.66475	62.96093	9.10942	0.1845680	0.24442603	2.5334038	21	12 9.9	18.4
53405 1999 KX_{8}	14.2	X	16.86614	277.97415	49.66063	10.28156	0.0177607	0.19308827	2.9645956	21	9 29.3	18.3
53406 1999 KL_{12}	14.3	X	0.03219	72.26597	106.83657	2.79274	0.1237233	0.17141136	3.2095414	21	2 18.6	18.1
53407 1999 KC_{17}	13.9	X	242.36166	172.18534	228.41150	9.67415	0.1119647	0.18379367	3.0637196	21	6 21.2	18.6
53408 1999 LU_{6}	14.6	X	232.42957	257.96313	139.59017	23.43534	0.0635673	0.18139529	3.0906658	21	6 15.6	19.5
53409 1999 LU_{7}	18.7	X	56.43281	147.71386	206.71226	10.87281	0.6282663	0.32359865	2.1011880	21	—	—
53410 1999 LL_{28}	14.2	X	26.41847	84.03720	127.79969	17.54435	0.0785594	0.17656213	3.1468136	21	5 18.8	18.6
53411 1999 LM_{32}	14.1	X	23.63371	296.45661	251.32718	11.26035	0.1174903	0.22291440	2.6938741	21	3 26.1	17.4
53412 1999 NQ_{1}	14.0	X	29.30612	97.54702	151.10623	26.21421	0.2985778	0.22465740	2.6799224	21	8 4.1	16.5
53413 1999 NE_{12}	14.2	X	20.97075	112.07487	133.34204	17.65264	0.1481596	0.17614685	3.1517574	21	6 23.8	18.1
53414 1999 NK_{19}	14.3	X	100.83736	287.56274	285.14363	14.83774	0.1501174	0.18376925	3.0639910	21	8 25.8	19.1
53415 1999 NC_{21}	13.7	X	4.12274	325.04702	301.11565	26.08691	0.1230913	0.17804672	3.1292966	21	6 23.2	17.7
53416 1999 NB_{23}	14.2	X	209.04011	299.40757	274.89997	5.23943	0.2253220	0.19905957	2.9050080	21	12 7.1	18.9
53417 1999 NP_{38}	15.1	X	68.53190	333.63322	107.31431	27.23758	0.0807255	0.38359283	1.8759549	21	—	—
53418 1999 PY_{3}	11.7	X	343.59451	129.71148	148.53790	26.37099	0.0946581	0.08435585	5.1490358	21	6 10.8	18.5
53419 1999 PJ_{4}	12.2	X	313.35815	348.02082	342.68822	30.60882	0.0891146	0.08377609	5.1727641	21	7 4.0	19.2
53420 1999 RH_{4}	13.0	X	67.35456	349.67707	290.05426	8.59427	0.0669243	0.18414227	3.0598518	21	9 30.3	17.5
53421 1999 RY_{18}	15.8	X	89.47177	333.48182	349.54483	19.47316	0.0844680	0.36991136	1.9219302	21	—	—
53422 1999 RN_{30}	15.8	X	131.17747	95.37155	186.91509	21.57570	0.0840206	0.37014715	1.9211139	21	—	—
53423 1999 RC_{238}	13.4	X	86.42727	223.95368	67.48893	12.12492	0.1170020	0.18387243	3.0628447	21	11 18.0	18.0
53424 1999 SC_{3}	15.4	X	216.85188	50.98584	316.50948	23.15054	0.0629420	0.38672619	1.8658082	21	3 11.9	18.0
53425 1999 SO_{4}	14.3	X	301.62253	68.27754	17.88618	4.93490	0.0522702	0.27255084	2.3559769	21	11 26.7	16.9
53426 1999 SL_{5}	17.2	X	84.51728	43.33284	239.09110	22.77489	0.5386293	0.36970199	1.9226557	21	12 20.5	21.4
53427 1999 SJ_{9}	15.9	X	82.65552	186.86949	148.92556	22.63007	0.0738691	0.37063734	1.9194197	21	—	—
53428 1999 TD_{2}	15.6	X	349.11951	32.36529	40.20954	21.65292	0.0915537	0.36764352	1.9298258	21	—	—
53429 1999 TF_{5}	18.9	X	230.40115	64.07714	199.21962	26.78322	0.6398935	0.34254368	2.0229823	21	—	—
53430 1999 TY_{16}	16.7	X	61.27119	156.94032	241.92810	60.39403	0.4033469	0.32407751	2.0991177	21	—	—
53431 1999 UQ_{10}	14.4	X	330.81404	299.10988	37.93870	25.36834	0.1443057	0.39597861	1.8366295	21	9 7.0	16.2
53432 1999 UT_{55}	15.7	X	163.14712	126.88798	268.69532	22.43868	0.1158497	0.38495865	1.8715151	21	2 16.4	18.4
53433 1999 VV_{10}	15.4	X	261.66573	321.69553	65.95791	23.08159	0.0701432	0.39359366	1.8440413	21	6 30.1	17.4
53434 1999 VD_{25}	13.2	X	96.51192	246.60302	75.87913	16.27575	0.1178517	0.22765351	2.6563573	21	—	—
53435 1999 VM_{40}	14.6	X	72.76731	354.45177	51.35710	15.34233	0.4826973	0.28039300	2.3118409	21	1 19.7	15.5
53436 1999 VB_{154}	11.4	X	334.57908	298.24335	104.21718	18.27161	0.0119300	0.08663078	5.0584939	21	10 27.4	18.3
53437 1999 WL_{2}	15.5	X	123.31827	90.61179	76.20992	3.70228	0.0572515	0.30334688	2.1936956	21	7 24.4	18.2
53438 1999 WY_{9}	15.1	X	71.78533	299.00245	82.56352	25.42570	0.0826470	0.36708074	1.9317977	21	—	—
53439 1999 WA_{10}	14.2	X	231.41805	329.43490	90.52966	14.80829	0.1583274	0.25571667	2.4582725	21	6 29.4	17.8
53440 1999 XQ_{33}	15.6	X	311.47306	102.80216	110.48705	27.34552	0.0651501	0.37104958	1.9179977	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53441 1999 XL_{77}	16.3	X	46.51340	283.35678	226.12645	2.77389	0.1214410	0.28679705	2.2772966	21	3 3.3	18.3
53442 1999 XU_{81}	15.4	X	12.19274	322.66462	249.78112	2.86167	0.0970572	0.29099368	2.2553486	21	4 3.3	17.5
53443 1999 XX_{81}	15.1	X	38.03230	269.58415	254.49355	6.81144	0.1288674	0.28731034	2.2745835	21	3 6.3	17.3
53444 1999 XV_{90}	15.4	X	87.93786	313.51408	264.78633	6.38279	0.1469876	0.29835147	2.2181144	21	8 28.9	18.4
53445 1999 XB_{103}	14.8	X	170.03823	104.65078	91.46691	13.85528	0.1881584	0.25988217	2.4319337	21	10 28.8	19.0
53446 1999 XD_{103}	15.2	X	130.44611	283.19325	79.17639	7.55754	0.1533993	0.28081604	2.3095185	21	—	—
53447 1999 XL_{105}	15.7	X	71.27241	45.40068	48.47192	6.00252	0.1530428	0.28490895	2.2873467	21	2 1.9	17.7
53448 1999 XT_{105}	15.1	X	154.78219	336.25153	238.14344	6.84764	0.1479433	0.30605809	2.1807212	21	11 6.1	18.3
53449 1999 XG_{132}	11.9	X	250.89147	213.69418	290.02851	19.84583	0.1175838	0.08274685	5.2155695	21	10 16.3	19.2
53450 1999 XX_{132}	15.5	X	335.10761	263.08901	0.82685	7.53927	0.0854157	0.29299802	2.2450513	21	4 16.4	17.7
53451 1999 XU_{134}	15.6	X	6.27177	262.33690	92.41704	23.96246	0.1066700	0.35755881	1.9659436	21	12 1.7	17.6
53452 1999 XW_{134}	15.8	X	238.95064	126.61391	113.15927	24.54053	0.0612025	0.36791885	1.9288629	21	—	—
53453 1999 XX_{135}	14.9	X	338.27271	157.39215	269.86383	17.87611	0.0783470	0.36234230	1.9486030	21	—	—
53454 1999 XC_{136}	15.0	X	125.81025	247.09633	66.01854	24.78648	0.0180333	0.36378794	1.9434372	21	—	—
53455 1999 XX_{139}	15.5	X	290.01093	155.91801	109.85466	7.26755	0.0974172	0.28569962	2.2831246	21	2 16.2	18.4
53456 1999 XR_{142}	15.2	X	46.10417	294.59385	86.08715	24.65454	0.1076323	0.36276319	1.9470954	21	—	—
53457 1999 XX_{142}	15.4	X	359.62036	270.32044	72.74285	23.19162	0.0775784	0.35729933	1.9668953	21	11 1.9	17.5
53458 1999 XH_{153}	16.3	X	345.50784	32.43843	280.02293	5.10426	0.1941756	0.30512564	2.1851617	21	7 19.9	17.3
53459 1999 XD_{156}	15.2	X	35.05900	147.52778	101.73645	6.98884	0.1074604	0.29976427	2.2111395	21	7 20.9	17.1
53460 1999 XG_{174}	15.2	X	293.75768	170.83374	73.63693	7.85007	0.1025267	0.28225540	2.3016602	21	1 23.2	18.3
53461 1999 XS_{177}	15.9	X	159.72464	218.42448	328.01302	3.12034	0.0899077	0.30419463	2.1896180	21	10 5.3	18.8
53462 1999 XR_{178}	15.5	X	85.35972	186.51485	71.20654	4.68828	0.0651490	0.30409146	2.1901132	21	10 15.7	18.1
53463 1999 XW_{196}	15.5	X	172.62722	209.88470	42.03459	6.68927	0.1300283	0.31554069	2.1368095	21	—	—
53464 1999 XG_{205}	14.1	X	175.67403	166.09838	46.30544	8.41652	0.1983376	0.21582979	2.7525072	21	11 10.9	18.8
53465 1999 XY_{222}	15.6	X	48.61167	176.80327	334.42380	5.37113	0.0503550	0.28586517	2.2822430	21	3 7.2	17.8
53466 1999 XS_{230}	13.5	X	290.80379	240.02889	32.51785	12.48760	0.1593445	0.20325535	2.8648907	21	3 6.6	17.8
53467 2000 AD_{1}	15.4	X	184.42319	300.21953	298.90981	5.63031	0.0946753	0.26608874	2.3939682	21	—	—
53468 Varros	16.0	X	183.77340	336.48380	126.72605	2.75701	0.0706064	0.29761176	2.2217882	21	7 10.0	18.8
53469 2000 AX_{8}	12.4	X	15.49495	10.24260	11.60944	7.35944	0.0644412	0.08510976	5.1185835	21	11 12.9	18.9
53470 2000 AG_{16}	15.0	X	88.91233	87.72909	276.88033	3.31141	0.2310310	0.23239921	2.6200703	21	—	—
53471 2000 AU_{30}	15.0	X	79.44713	302.27264	66.75336	7.08116	0.0502625	0.22716298	2.6601799	21	—	—
53472 2000 AE_{33}	15.5	X	173.38264	248.95556	347.86512	6.16550	0.0816242	0.26602709	2.3943381	21	12 22.1	18.9
53473 2000 AN_{39}	15.7	X	265.50083	193.49351	23.59022	4.49374	0.1066454	0.27391746	2.3481341	21	—	—
53474 2000 AC_{40}	15.6	X	277.73109	282.64785	40.12188	4.42790	0.1891467	0.29410438	2.2394174	21	4 6.0	18.5
53475 2000 AH_{49}	16.2	X	251.33877	106.97378	285.56123	4.12205	0.1716630	0.29995073	2.2102230	21	6 11.9	19.3
53476 2000 AQ_{49}	15.8	X	158.68889	8.42451	261.36377	4.38053	0.1261714	0.31541730	2.1373667	21	—	—
53477 2000 AA_{54}	11.9	X	340.52256	112.95213	303.60177	11.02714	0.0316415	0.08112895	5.2846816	21	11 5.8	18.8
53478 2000 AK_{54}	14.9	X	116.68154	316.36272	297.64962	12.67045	0.2347504	0.25913451	2.4366092	21	11 15.6	19.2
53479 2000 AG_{56}	15.3	X	164.28685	212.58698	118.83831	6.69587	0.1415256	0.27820953	2.3239211	21	—	—
53480 2000 AM_{56}	15.5	X	310.96541	251.16138	311.72735	4.60254	0.1643600	0.27724492	2.3293083	21	—	—
53481 2000 AC_{57}	15.9	X	73.30838	254.49616	322.99707	1.12094	0.1655754	0.29608585	2.2294151	21	8 14.6	18.2
53482 2000 AQ_{57}	15.0	X	274.70757	312.18188	297.97765	5.39778	0.0903113	0.27962759	2.3160577	21	1 9.1	18.0
53483 2000 AC_{58}	14.7	X	113.32123	125.25883	119.75592	6.25070	0.0740040	0.25857091	2.4401486	21	10 28.7	18.2
53484 2000 AT_{58}	15.8	X	321.94424	217.29683	28.88814	2.25073	0.0508999	0.28579554	2.2826137	21	3 10.5	18.3
53485 2000 AU_{58}	15.6	X	181.25395	167.01933	63.36867	3.21533	0.1656326	0.26412716	2.4058064	21	12 15.3	19.2
53486 2000 AJ_{59}	15.0	X	139.20767	244.59326	104.08662	7.09316	0.1125199	0.27700693	2.3306423	21	—	—
53487 2000 AQ_{59}	15.5	X	246.57404	313.06319	303.73830	4.73280	0.1192452	0.27620863	2.3351308	21	—	—
53488 2000 AG_{61}	13.7	X	268.75221	247.49653	319.05344	10.14345	0.0669792	0.18119302	3.0929655	21	—	—
53489 2000 AJ_{62}	14.9	X	263.75116	185.24983	122.40398	6.48823	0.1880560	0.28570040	2.2831204	21	3 4.8	18.4
53490 2000 AZ_{65}	15.0	X	321.70809	111.92809	105.11881	7.14850	0.1047510	0.27985377	2.3148096	21	1 21.0	17.8
53491 2000 AM_{66}	15.2	X	17.57023	64.80530	87.94973	7.54844	0.0607263	0.28003958	2.3137856	21	1 21.5	17.7
53492 2000 AK_{67}	14.5	X	177.19584	219.88520	121.30875	14.24814	0.2061348	0.23489122	2.6015062	21	2 4.6	18.9
53493 2000 AP_{67}	15.4	X	255.05694	260.10063	330.84316	2.31569	0.0479457	0.27412140	2.3469694	21	—	—
53494 2000 AP_{68}	13.3	X	251.31751	108.03547	84.02531	13.35643	0.0558025	0.18423688	3.0588042	21	—	—
53495 2000 AW_{69}	14.2	X	213.68186	356.41301	112.84617	9.76203	0.0122821	0.16764648	3.2574150	21	8 25.9	18.9
53496 2000 AH_{74}	15.9	X	142.07754	7.13093	175.03001	4.31077	0.0352927	0.30401964	2.1904581	21	9 7.5	18.5
53497 2000 AV_{76}	15.8	X	236.59777	34.15510	131.18267	3.05628	0.0124174	0.31388825	2.1443023	21	12 27.5	18.1
53498 2000 AV_{86}	15.8	X	184.09550	66.98782	151.04281	3.65858	0.0634208	0.31089546	2.1580415	21	12 20.9	18.5
53499 2000 AT_{87}	15.7	X	15.51617	83.74582	270.36561	5.08068	0.0775893	0.30842230	2.1695627	21	11 23.1	17.8
53500 2000 AQ_{88}	15.4	X	161.37717	292.76565	277.89739	1.57582	0.0412393	0.26112741	2.4241961	21	11 5.3	18.6
53501 2000 AC_{95}	14.7	X	294.24363	31.26053	311.48102	6.66754	0.1889021	0.29573437	2.2311813	21	5 22.3	17.4
53502 2000 AG_{97}	14.4	X	195.29935	112.66139	117.53435	9.26026	0.0725892	0.26402508	2.4064265	21	—	—
53503 2000 AH_{98}	14.7	X	116.18996	218.33391	21.84892	7.35935	0.1152297	0.25382703	2.4704580	21	10 24.5	18.2
53504 2000 AN_{98}	15.0	X	322.52862	33.44476	117.81611	7.61023	0.0554250	0.27152741	2.3618932	21	—	—
53505 2000 AL_{112}	15.4	X	102.19483	97.25523	191.81720	2.50593	0.0927771	0.31109652	2.1571116	21	12 19.6	18.3
53506 2000 AU_{119}	15.7	X	331.25671	350.78625	177.87353	6.38973	0.0627013	0.27720348	2.3295405	21	—	—
53507 2000 AX_{120}	14.9	X	202.65906	66.32016	176.04634	6.49882	0.1017157	0.26933619	2.3746863	21	—	—
53508 2000 AO_{122}	15.8	X	331.97498	136.19771	157.63304	7.10502	0.1825971	0.29471487	2.2363238	21	5 17.3	17.8
53509 2000 AT_{122}	16.2	X	293.32510	3.50497	175.14708	3.99353	0.1542038	0.27309330	2.3528560	21	—	—
53510 2000 AJ_{126}	14.8	X	314.81534	330.69156	282.59588	12.55611	0.1604087	0.23747725	2.5825855	21	2 22.1	18.5
53511 2000 AV_{126}	14.7	X	245.94534	124.74806	141.74079	6.05473	0.1737911	0.27638270	2.3341502	21	—	—
53512 2000 AZ_{127}	13.5	X	119.68947	7.62656	306.40161	19.65681	0.1304562	0.17555025	3.1588942	21	—	—
53513 2000 AB_{136}	14.2	X	26.73549	159.88871	103.39458	12.15472	0.0565513	0.20480254	2.8504439	21	7 19.4	17.8
53514 2000 AS_{136}	15.5	X	23.46396	359.82458	136.62020	5.58652	0.1135355	0.27784569	2.3259495	21	1 2.3	17.8
53515 2000 AT_{136}	14.9	X	316.45644	78.85554	140.76296	7.01355	0.0892000	0.27764422	2.3270745	21	1 19.4	17.7
53516 2000 AV_{136}	13.7	X	69.04328	173.02629	327.52228	13.89605	0.1344048	0.23743688	2.5828782	21	4 5.0	17.0
53517 2000 AK_{137}	14.4	X	291.60052	327.52653	140.95007	17.63575	0.2056823	0.21718189	2.7410711	21	11 18.5	17.8
53518 2000 AR_{137}	14.2	X	278.82248	337.60466	81.21571	5.87697	0.1565788	0.30083793	2.2058755	21	9 3.4	16.5
53519 2000 AQ_{142}	15.5	X	352.85762	298.95185	145.31380	9.63934	0.2093464	0.27051073	2.3678075	21	—	—
53520 2000 AQ_{144}	15.4	X	211.35212	332.76237	144.61127	4.87799	0.1014089	0.29923033	2.2137690	21	8 31.9	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53521 2000 AZ_{144}	15.1	X	122.11396	285.42300	291.49148	7.57649	0.0849190	0.25322804	2.4743522	21	9 25.0	18.7
53522 2000 AE_{146}	16.1	X	152.30755	118.41209	105.50934	24.69080	0.0422426	0.35738926	1.9665653	21	12 5.7	18.7
53523 2000 AC_{153}	14.7	X	134.46955	157.53692	97.76793	5.17348	0.1541578	0.30175148	2.2014210	21	12 9.1	18.0
53524 2000 AN_{153}	15.8	X	123.53564	180.68925	128.54874	7.10719	0.1205400	0.26816414	2.3816005	21	—	—
53525 2000 AN_{161}	15.0	X	90.90371	212.56983	1.93335	5.29717	0.1142837	0.29676396	2.2260177	21	8 27.8	17.7
53526 2000 AJ_{162}	15.6	X	186.02655	249.01280	315.85493	4.51830	0.0814618	0.30801670	2.1714669	21	12 1.9	18.5
53527 2000 AM_{164}	13.5	X	102.45493	89.90437	324.38624	21.68198	0.0217669	0.22832137	2.6511747	21	1 25.9	17.2
53528 2000 AW_{177}	14.2	X	79.53694	136.02648	236.74996	11.66207	0.1729548	0.23038872	2.6352909	21	—	—
53529 2000 AN_{198}	15.6	X	202.97859	41.73619	188.74908	7.91504	0.0663557	0.26708074	2.3880368	21	—	—
53530 2000 AV_{200}	15.0	X	342.25979	275.25408	120.46499	24.37185	0.1155402	0.35951856	1.9587928	21	12 24.1	16.8
53531 2000 AD_{212}	15.1	X	277.79794	135.90093	145.14661	9.00008	0.1276379	0.28117534	2.3075506	21	2 17.6	18.1
53532 2000 AJ_{212}	15.7	X	24.04584	8.96707	320.21414	5.24468	0.2217791	0.30228879	2.1988116	21	11 22.3	18.0
53533 2000 AA_{216}	15.1	X	113.36323	339.31212	314.84993	5.60856	0.1518301	0.26205631	2.4184641	21	12 31.7	19.0
53534 2000 AM_{233}	15.2	X	252.89668	101.46119	96.14852	3.40662	0.1436162	0.26618146	2.3934122	21	—	—
53535 2000 AH_{237}	13.7	X	214.58556	142.52398	278.01914	5.98019	0.0633489	0.24590866	2.5232106	21	6 19.1	17.2
53536 2000 AE_{239}	15.3	X	353.05456	20.92593	292.35326	4.25313	0.1744484	0.30036527	2.2081890	21	8 11.6	16.6
53537 2000 AZ_{239}	14.4	X	140.32950	243.52164	358.33928	4.83864	0.0797771	0.25730641	2.4481366	21	11 19.6	18.0
53538 2000 AE_{240}	14.9	X	51.42166	211.95214	324.86915	5.47967	0.0899159	0.28448692	2.2896083	21	4 20.7	17.3
53539 2000 AO_{243}	15.9	X	145.08365	125.87027	35.12506	4.05237	0.1301584	0.29554722	2.2321230	21	8 18.5	19.1
53540 2000 AE_{252}	15.5	X	333.84405	165.50934	109.95881	7.08514	0.1067046	0.29122632	2.2541473	21	5 4.9	17.9
53541 2000 AK_{252}	15.5	X	16.74795	199.61198	117.97131	13.14773	0.1877644	0.25831698	2.4417475	21	10 17.3	18.2
53542 2000 BE_{1}	15.3	X	98.89582	326.62829	184.58023	25.06057	0.2553915	0.28704133	2.2760044	21	6 25.3	19.2
53543 2000 BD_{3}	15.5	X	193.46051	180.62386	21.54728	2.48910	0.1438635	0.26158831	2.4213477	21	11 23.3	18.9
53544 2000 BF_{3}	15.3	X	218.29792	262.26608	313.13268	1.95669	0.1161811	0.26632832	2.3925323	21	—	—
53545 2000 BT_{5}	15.1	X	252.80082	304.78798	31.99969	13.16055	0.2366658	0.24642268	2.5197006	21	4 1.9	19.3
53546 2000 BY_{6}	14.2	X	228.26133	168.90401	10.74306	14.82136	0.1198435	0.21965714	2.7204401	21	11 25.4	18.3
53547 2000 BF_{8}	15.5	X	10.63387	70.71919	347.51803	6.56686	0.0945648	0.27068773	2.3667752	21	—	—
53548 2000 BA_{14}	15.6	X	272.40409	147.87497	34.83037	1.20057	0.1619479	0.26932297	2.3747640	21	—	—
53549 2000 BN_{14}	14.5	X	193.87570	290.21406	123.93939	11.85281	0.0894276	0.24439896	2.5335909	21	5 20.4	18.4
53550 2000 BF_{19}	19.1	X	140.45441	324.91094	313.21558	7.17611	0.4196230	0.53900636	1.4953406	21	—	—
53551 2000 BP_{28}	16.4	X	106.14304	101.99015	32.90371	8.65566	0.1609837	0.29048889	2.2579606	21	5 27.9	19.2
53552 2000 BC_{33}	15.8	X	343.99816	213.75038	125.79149	2.63863	0.1458854	0.30095485	2.2053041	21	9 7.6	17.2
53553 2000 CB_{2}	14.9	X	279.44651	102.80137	105.46401	6.00139	0.1135031	0.27185162	2.3600150	21	—	—
53554 2000 CH_{2}	15.3	X	0.63983	263.82556	353.11644	8.52513	0.1047278	0.28902594	2.2655736	21	5 20.6	17.5
53555 2000 CG_{5}	15.6	X	36.52989	337.01428	264.19213	5.38081	0.1321600	0.29469668	2.2364158	21	7 12.9	17.6
53556 2000 CW_{8}	15.6	X	44.99565	146.63143	254.27254	3.74160	0.1117513	0.27317399	2.3523927	21	—	—
53557 2000 CT_{14}	15.3	X	278.55089	181.10928	134.80547	5.97614	0.2019533	0.29004065	2.2602864	21	3 29.0	18.5
53558 2000 CR_{17}	15.0	X	163.11526	106.75571	173.77818	2.39005	0.1931567	0.26832960	2.3806214	21	—	—
53559 2000 CJ_{21}	16.1	X	346.38709	32.66683	216.12483	4.82711	0.0681395	0.28795466	2.2711892	21	4 17.5	18.2
53560 2000 CT_{21}	16.6	X	169.06478	288.37248	222.97351	2.67033	0.1150840	0.29908329	2.2144945	21	8 27.9	19.7
53561 2000 CM_{22}	15.3	X	245.77489	10.48145	290.52575	4.95398	0.1019665	0.28203264	2.3028720	21	2 9.2	18.6
53562 2000 CL_{25}	15.1	X	205.16498	56.26855	173.39371	6.21361	0.0858156	0.26668835	2.3903786	21	—	—
53563 2000 CJ_{29}	15.5	X	324.43117	224.11285	154.48950	4.70237	0.1817310	0.30384202	2.1913117	21	9 28.9	16.7
53564 2000 CR_{29}	15.3	X	344.11798	219.03962	312.97179	3.96305	0.0284721	0.27751869	2.3277762	21	1 3.0	18.1
53565 2000 CG_{30}	15.7	X	255.08233	12.96130	168.65921	1.22275	0.1257535	0.26664186	2.3906563	21	—	—
53566 2000 CU_{30}	15.2	X	10.75423	122.97605	156.13889	6.34672	0.0951477	0.29534956	2.2331188	21	7 19.5	17.2
53567 2000 CB_{33}	15.2	X	339.99294	133.87695	151.47753	6.34863	0.1237988	0.28994754	2.2607702	21	5 28.7	17.3
53568 2000 CB_{34}	15.1	X	262.21613	88.59344	150.68368	13.27446	0.1349280	0.22678863	2.6631065	21	—	—
53569 2000 CF_{36}	15.7	X	358.62707	34.88034	161.30164	8.98446	0.1512895	0.28051650	2.3111623	21	2 8.2	17.9
53570 2000 CR_{36}	15.6	X	284.84712	174.87480	320.78886	1.56149	0.0904730	0.26494362	2.4008613	21	—	—
53571 2000 CY_{36}	15.9	X	321.11529	191.60173	305.62217	3.11626	0.1009425	0.26941448	2.3742262	21	—	—
53572 2000 CM_{38}	16.0	X	272.18716	162.05237	325.73387	4.80817	0.0235111	0.31006435	2.1618962	21	12 23.7	18.3
53573 2000 CW_{38}	14.2	X	16.65097	326.42838	129.29181	9.82266	0.0923293	0.18159977	3.0883453	21	—	—
53574 2000 CH_{41}	16.0	X	5.23720	31.51919	345.34058	2.88711	0.1983738	0.30861969	2.1686375	21	12 31.5	18.1
53575 2000 CN_{43}	14.9	X	119.14794	88.29836	227.89004	5.05321	0.1474025	0.26757159	2.3851153	21	—	—
53576 2000 CS_{47}	15.6	X	87.02401	334.26457	270.83003	5.54645	0.1414630	0.29789450	2.2203822	21	10 3.9	18.6
53577 2000 CT_{47}	15.8	X	346.53501	228.76093	277.19723	4.80347	0.1771874	0.27467876	2.3437934	21	—	—
53578 2000 CM_{48}	15.4	X	331.96965	339.31192	221.38769	4.97635	0.1063749	0.27817728	2.3241007	21	1 11.5	18.2
53579 2000 CN_{48}	15.5	X	29.60615	43.87390	248.49289	5.48548	0.1424591	0.29694919	2.2250919	21	9 20.1	17.8
53580 2000 CR_{48}	15.1	X	321.76980	251.22722	271.81754	6.00938	0.0660595	0.27293480	2.3537669	21	—	—
53581 2000 CY_{49}	15.0	X	257.17304	21.66138	238.71977	5.00992	0.0745366	0.27604875	2.3360324	21	1 3.7	18.3
53582 2000 CZ_{49}	15.5	X	60.70767	227.73691	288.61375	6.52198	0.0499061	0.28484761	2.2876750	21	3 30.9	18.1
53583 2000 CR_{50}	16.2	X	183.62945	5.73606	276.26968	1.99464	0.0159665	0.31654875	2.1322706	21	—	—
53584 2000 CY_{51}	14.9	X	10.57774	359.20920	313.44123	3.91867	0.1057996	0.29763560	2.2216696	21	9 12.9	17.0
53585 2000 CF_{52}	15.9	X	199.28149	163.33977	291.28710	0.98419	0.1185635	0.29592626	2.2302166	21	7 14.9	19.1
53586 2000 CA_{53}	15.6	X	308.68666	23.04065	242.93936	1.37246	0.1549236	0.28191321	2.3035224	21	3 1.9	18.4
53587 2000 CD_{53}	14.5	X	255.37912	136.31835	159.98065	14.10164	0.1296759	0.23346804	2.6120677	21	2 18.9	18.5
53588 2000 CH_{53}	14.4	X	330.27053	278.99092	330.50326	26.51583	0.0957465	0.23687400	2.5869684	21	3 15.2	18.0
53589 2000 CQ_{53}	14.9	X	15.61769	319.89403	305.26689	2.93243	0.1274442	0.29000838	2.2604540	21	7 9.5	16.6
53590 2000 CL_{54}	15.1	X	196.65821	14.59255	317.79920	6.16779	0.1329139	0.27815055	2.3242496	21	2 1.3	18.5
53591 2000 CY_{55}	16.0	X	33.65772	183.72270	318.21222	1.79170	0.0820171	0.28060608	2.3106704	21	1 30.1	18.2
53592 2000 CH_{56}	15.7	X	267.08978	49.93783	88.31212	3.77223	0.0690105	0.30932706	2.1653301	21	12 25.6	17.7
53593 2000 CJ_{58}	14.6	X	163.85400	170.06313	55.22264	6.88086	0.0595969	0.30354794	2.1927268	21	12 3.9	17.3
53594 2000 CJ_{62}	15.5	X	244.16070	195.93409	292.29533	3.92900	0.0589505	0.30446171	2.1883373	21	11 4.3	17.9
53595 2000 CK_{62}	15.4	X	34.02984	67.44492	184.02913	5.95267	0.0857136	0.29141215	2.2531889	21	7 17.4	17.7
53596 2000 CD_{63}	15.8	X	355.58224	201.21666	314.21569	4.21552	0.1245653	0.27550878	2.3390836	21	—	—
53597 2000 CX_{63}	15.8	X	341.06889	326.53472	172.29821	8.88951	0.1352861	0.27222103	2.3578794	21	—	—
53598 2000 CF_{70}	15.7	X	335.74947	264.53446	292.35249	2.92778	0.1099413	0.27728522	2.3290827	21	1 12.3	18.4
53599 2000 CZ_{70}	14.5	X	222.71034	283.56358	320.07073	12.08659	0.1122392	0.22173119	2.7034491	21	—	—
53600 2000 CA_{71}	15.3	X	37.75349	2.22970	226.17015	4.89281	0.1505664	0.28810631	2.2703921	21	6 27.0	17.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53601 2000 CK_{72}	16.3	X	302.96759	320.43921	15.79046	2.23668	0.0638319	0.29481810	2.2358017	21	6 19.1	18.6
53602 2000 CL_{72}	14.9	X	313.98433	53.22980	339.69171	3.77615	0.0630300	0.30252197	2.1976816	21	10 4.5	16.9
53603 2000 CF_{75}	15.6	X	335.84865	226.54516	94.02201	4.33802	0.2245557	0.29730325	2.2233250	21	7 4.2	16.9
53604 2000 CJ_{75}	15.4	X	44.50924	186.46490	18.99901	1.09993	0.1300976	0.28820672	2.2698648	21	5 30.9	17.3
53605 2000 CY_{76}	14.7	X	10.72099	230.61306	351.00946	16.37197	0.1727443	0.23767059	2.5811847	21	4 13.8	17.4
53606 2000 CN_{81}	15.4	X	78.27219	126.03816	143.33798	4.48112	0.1876286	0.30008230	2.2095770	21	11 6.1	18.5
53607 2000 CV_{81}	15.7	X	7.81866	115.80151	36.79929	1.49885	0.1450749	0.27818326	2.3240674	21	—	—
53608 2000 CC_{82}	14.7	X	275.24283	275.95309	345.71035	4.46315	0.0940926	0.27905506	2.3192244	21	1 25.2	18.0
53609 2000 CE_{82}	15.3	X	73.86889	260.33864	338.75527	4.69756	0.1696640	0.29514469	2.2341521	21	9 15.4	18.0
53610 2000 CM_{82}	14.4	X	338.87259	316.33842	334.92859	6.17749	0.1569253	0.24455783	2.5324935	21	5 31.9	17.0
53611 2000 CQ_{82}	15.7	X	66.40295	169.00883	328.28195	2.84514	0.1066532	0.28399072	2.2922745	21	3 21.9	17.9
53612 2000 CD_{85}	16.0	X	275.08737	51.28525	118.87229	3.07261	0.0730613	0.26792737	2.3830034	21	—	—
53613 2000 CP_{85}	15.5	X	83.10137	248.86026	51.09214	2.23773	0.1685966	0.30474875	2.1869630	21	12 17.6	18.6
53614 2000 CC_{86}	15.3	X	341.05886	328.76947	333.56965	6.24248	0.0569454	0.29284143	2.2458515	21	7 3.1	17.7
53615 2000 CF_{86}	15.2	X	160.55064	245.17776	32.27755	2.30957	0.2013047	0.26419071	2.4054206	21	—	—
53616 2000 CS_{86}	16.2	X	101.16528	162.46184	357.16922	5.32420	0.0890397	0.29023095	2.2592983	21	6 16.4	18.9
53617 2000 CX_{88}	15.9	X	351.93630	146.88535	6.20619	5.92134	0.0998928	0.27482546	2.3429592	21	—	—
53618 2000 CJ_{92}	15.5	X	209.03869	45.25137	144.52614	5.46409	0.1615217	0.26022900	2.4297724	21	11 23.8	19.0
53619 2000 CC_{93}	14.8	X	146.10076	356.09672	353.73885	14.25085	0.0878504	0.27257811	2.3558198	21	—	—
53620 2000 CN_{93}	14.6	X	263.97114	158.79826	103.08182	4.86791	0.2146303	0.27229513	2.3574517	21	1 5.8	18.6
53621 2000 CO_{93}	15.4	X	87.01889	106.23852	98.62765	4.02015	0.1183302	0.29091873	2.2557359	21	8 8.2	18.1
53622 2000 CS_{93}	13.7	X	151.25709	103.20428	272.46601	10.37437	0.0889297	0.18748120	3.0234136	21	2 13.5	18.4
53623 2000 CT_{93}	15.5	X	232.71027	138.84186	114.30918	3.07171	0.1916476	0.27142758	2.3624723	21	—	—
53624 2000 CT_{95}	15.3	X	252.02054	177.12238	159.82534	2.80072	0.1784332	0.23922788	2.5699708	21	4 3.8	19.4
53625 2000 CZ_{96}	15.7	X	127.04857	52.26569	256.82333	4.72568	0.0752580	0.31216560	2.1521838	21	—	—
53626 2000 CE_{97}	16.3	X	79.26465	142.21614	351.45082	2.31137	0.1705255	0.28406601	2.2918694	21	4 18.8	18.5
53627 2000 CN_{98}	14.8	X	314.38890	156.90284	149.32447	4.27405	0.2368895	0.24448560	2.5329923	21	4 29.2	17.7
53628 2000 CW_{101}	14.9	X	263.12103	329.03919	352.53132	8.86439	0.2004815	0.28428125	2.2907124	21	3 18.5	18.2
53629 Andrewpotter	16.1	X	27.16068	245.83738	214.85156	5.66284	0.1951329	0.27564469	2.3383147	21	—	—
53630 2000 CW_{116}	15.1	X	144.92796	262.93338	72.45449	8.13925	0.1330923	0.27272725	2.3549609	21	—	—
53631 2000 CD_{119}	15.5	X	274.07824	307.54951	252.27188	6.24234	0.0875296	0.27140264	2.3626170	21	—	—
53632 2000 CP_{123}	15.6	X	350.47794	307.57183	107.61840	7.09679	0.1041166	0.26622717	2.3931383	21	—	—
53633 2000 DQ	14.9	X	338.21771	225.24974	11.96445	7.65648	0.2084363	0.23501757	2.6005737	21	3 8.5	17.7
53634 2000 DF_{1}	14.4	X	13.75600	219.21927	36.77467	5.92182	0.1290869	0.28733165	2.2744710	21	6 19.1	16.3
53635 2000 DZ_{3}	15.3	X	359.20246	285.32795	56.16928	4.83955	0.2028855	0.30251035	2.1977379	21	10 24.7	16.6
53636 2000 DD_{11}	15.7	X	157.56365	16.60993	341.50151	2.62831	0.1921504	0.27912006	2.3188644	21	1 30.7	19.0
53637 2000 DO_{11}	16.5	X	94.83327	50.33114	35.45186	0.34544	0.1800327	0.28048012	2.3113621	21	3 7.8	18.6
53638 2000 DD_{13}	15.3	X	183.63035	222.63161	101.25969	1.46849	0.1566144	0.27132002	2.3630967	21	1 11.3	18.8
53639 2000 DJ_{13}	14.7	X	228.37451	352.59810	329.54632	6.99216	0.1684740	0.28043419	2.3116145	21	2 18.1	18.2
53640 2000 DT_{14}	15.7	X	320.75400	335.23463	87.12010	2.81482	0.1075234	0.30706200	2.1759655	21	12 3.9	17.2
53641 2000 DD_{16}	14.6	X	36.05709	218.53944	52.07248	4.63905	0.1177764	0.29190845	2.2506343	21	8 29.9	16.8
53642 2000 DH_{18}	15.6	X	340.75465	250.47394	19.01347	2.03081	0.0849430	0.24257061	2.5463060	21	5 11.9	18.5
53643 2000 DL_{18}	15.7	X	87.30147	197.85304	125.25316	3.46164	0.0930506	0.26360223	2.4089993	21	—	—
53644 2000 DS_{22}	15.8	X	230.78269	23.95933	285.93095	3.20985	0.1851629	0.28056239	2.3109102	21	2 4.2	19.6
53645 2000 DY_{22}	15.3	X	150.59889	0.33912	334.85640	7.39832	0.2120586	0.27474696	2.3434055	21	—	—
53646 2000 DS_{23}	15.1	X	140.95089	194.60459	140.97835	6.36564	0.1695453	0.27330349	2.3516495	21	—	—
53647 2000 DE_{26}	15.2	X	226.19660	256.66435	15.63285	2.15124	0.1918766	0.27271429	2.3550355	21	—	—
53648 2000 DF_{28}	16.1	X	357.54302	169.23401	120.75329	1.09630	0.1704914	0.29256801	2.2472505	21	7 11.6	17.5
53649 2000 DH_{40}	16.1	X	278.98141	329.23132	181.01778	2.37592	0.1562640	0.26625381	2.3929787	21	—	—
53650 2000 DD_{41}	15.3	X	232.68918	188.52046	156.45184	7.06824	0.1458482	0.28518928	2.2858475	21	3 24.7	18.7
53651 2000 DX_{42}	15.1	X	263.35659	290.63577	9.88841	3.32202	0.1682227	0.23515438	2.5995649	21	3 2.1	19.1
53652 2000 DZ_{42}	16.1	X	22.33620	172.91861	17.88310	2.27509	0.0919457	0.28342552	2.2953209	21	3 23.3	18.2
53653 2000 DG_{43}	15.2	X	158.64266	149.56081	144.37233	2.62676	0.2112492	0.26608613	2.3939839	21	—	—
53654 2000 DD_{51}	14.6	X	169.05751	19.97494	344.23230	14.31516	0.1428824	0.23367373	2.6105346	21	2 22.1	18.6
53655 2000 DC_{52}	14.9	X	283.59287	356.23827	347.92900	6.53136	0.2457985	0.24496960	2.5296547	21	5 4.4	18.7
53656 2000 DV_{52}	15.9	X	357.12866	73.77024	286.78606	0.83681	0.0502119	0.25651221	2.4531872	21	10 21.2	18.8
53657 2000 DG_{53}	16.2	X	281.67539	278.63890	175.64958	4.48039	0.0455341	0.30536798	2.1840055	21	11 17.3	18.4
53658 2000 DQ_{56}	15.2	X	194.27136	183.33577	158.59317	3.96337	0.2170499	0.27881873	2.3205348	21	2 13.7	19.1
53659 2000 DP_{57}	15.5	X	120.90883	51.16840	224.13464	2.16120	0.2080434	0.21225013	2.7833687	21	12 10.3	20.3
53660 2000 DT_{61}	15.1	X	314.78637	151.00598	158.73835	6.28934	0.1647483	0.24219130	2.5489640	21	5 17.7	18.1
53661 2000 DU_{62}	14.9	X	234.68076	336.29358	334.50055	4.82900	0.0369044	0.27954183	2.3165313	21	2 14.1	18.0
53662 2000 DV_{62}	15.4	X	329.36407	58.78648	330.12510	2.06035	0.1486226	0.30368930	2.1920463	21	10 27.3	16.8
53663 2000 DX_{63}	16.0	X	1.14984	229.66343	308.41238	3.46198	0.0770984	0.27869012	2.3212487	21	1 29.0	18.4
53664 2000 DJ_{64}	15.8	X	245.75786	142.68986	181.06929	5.54104	0.0751627	0.28233488	2.3012282	21	3 13.4	18.9
53665 2000 DV_{68}	15.6	X	306.53296	243.27035	336.76930	3.91317	0.1335302	0.27554398	2.3388844	21	1 2.8	18.8
53666 2000 DK_{70}	15.7	X	333.11013	141.71138	151.32160	5.66305	0.1717272	0.28776011	2.2722127	21	5 20.4	17.7
53667 2000 DT_{70}	16.2	X	9.20658	224.95644	165.75165	3.04467	0.1332289	0.30837778	2.1697715	21	—	—
53668 2000 DY_{70}	15.1	X	314.51242	35.23219	225.83582	1.64059	0.1407178	0.23495214	2.6010565	21	3 12.9	18.4
53669 2000 DD_{71}	15.9	X	46.46848	138.15518	332.49510	4.90971	0.1280255	0.27719951	2.3295627	21	1 7.7	17.9
53670 2000 DJ_{71}	16.7	X	226.38326	268.28141	187.91305	2.53530	0.1160898	0.29829546	2.2183920	21	8 17.3	19.5
53671 2000 DO_{71}	15.1	X	72.40913	172.96680	173.32264	4.29679	0.1964842	0.26277843	2.4140314	21	—	—
53672 2000 DS_{71}	15.8	X	1.10956	334.85998	336.24949	2.78520	0.1744772	0.29365848	2.2416838	21	8 29.4	17.2
53673 2000 DT_{71}	15.2	X	88.71494	323.90245	346.91411	2.58121	0.1775627	0.25863884	2.4397213	21	12 29.9	19.0
53674 2000 DU_{71}	15.3	X	22.98382	274.86435	346.49254	1.55093	0.1047179	0.24410941	2.5355939	21	7 15.6	17.8
53675 2000 DC_{73}	15.5	X	184.81832	192.63077	166.68234	6.87009	0.2194607	0.27964318	2.3159716	21	2 27.1	19.2
53676 2000 DU_{73}	16.3	X	71.52281	99.78941	349.57739	5.79483	0.1245615	0.27786364	2.3258493	21	1 24.7	18.5
53677 2000 DE_{75}	16.3	X	343.66031	224.61418	237.55569	1.59767	0.1582771	0.26843893	2.3799750	21	—	—
53678 2000 DQ_{75}	15.0	X	292.29631	259.24798	12.34676	3.94423	0.1403039	0.23401957	2.6079621	21	2 28.5	18.6
53679 2000 DZ_{75}	16.4	X	341.81558	130.37695	129.15840	0.51651	0.1956421	0.28414575	2.2914406	21	4 8.2	18.1
53680 2000 DA_{76}	16.2	X	41.08779	257.32809	159.81048	7.13962	0.0971570	0.27002265	2.3706599	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53681 2000 DE_{76}	15.2	X	286.50683	285.23140	346.08691	7.16821	0.1176522	0.23325295	2.6136732	21	2 24.1	19.0
53682 2000 DO_{77}	14.8	X	96.97835	318.21358	21.36505	2.87173	0.1739162	0.26521318	2.3992342	21	—	—
53683 2000 DR_{77}	14.7	X	0.71621	173.97434	162.16242	13.50423	0.1297074	0.20606281	2.8388098	21	9 22.8	17.9
53684 2000 DA_{78}	14.8	X	326.08478	321.71025	349.73336	5.13399	0.1597458	0.28962504	2.2624482	21	6 4.3	17.0
53685 2000 DX_{78}	15.0	X	88.42577	91.31095	237.82305	1.54252	0.1941799	0.26126765	2.4233285	21	—	—
53686 2000 DV_{79}	15.8	X	17.62504	240.35429	8.38237	2.62793	0.1212213	0.29086558	2.2560107	21	6 14.8	17.8
53687 2000 DP_{80}	15.2	X	305.92126	246.08534	38.08662	3.72289	0.1552153	0.24029220	2.5623764	21	3 30.7	18.4
53688 2000 DV_{80}	15.3	X	333.82424	174.14354	98.47104	4.72791	0.1520843	0.28797925	2.2710599	21	4 22.7	17.5
53689 2000 DO_{81}	15.9	X	255.01382	208.93819	20.00121	4.24818	0.1238889	0.27225374	2.3576906	21	—	—
53690 2000 DK_{83}	14.9	X	123.75100	3.54920	86.47608	2.48266	0.0577774	0.19367932	2.9585611	21	4 15.2	19.2
53691 2000 DM_{83}	15.3	X	53.11967	156.17578	109.94919	4.61958	0.1908994	0.29590658	2.2303155	21	10 2.9	17.9
53692 2000 DQ_{84}	15.3	X	168.24183	62.26431	133.16549	7.18080	0.0759111	0.25840450	2.4411961	21	10 26.6	18.8
53693 2000 DC_{85}	15.6	X	239.54322	306.50504	64.10815	5.72303	0.1684992	0.29189217	2.2507180	21	5 1.9	18.9
53694 2000 DV_{85}	14.9	X	324.99804	222.19643	71.04481	5.68043	0.2209123	0.24231195	2.5481177	21	4 30.9	17.6
53695 2000 DJ_{86}	15.2	X	275.07355	227.32837	79.52554	5.00808	0.1641775	0.28467211	2.2886151	21	3 18.6	18.4
53696 2000 DS_{86}	15.1	X	78.97058	198.00904	111.19018	8.09058	0.0278490	0.26074875	2.4265424	21	12 3.8	18.2
53697 2000 DX_{86}	15.7	X	357.98592	117.83180	48.78007	5.18035	0.1233295	0.27782010	2.3260923	21	1 1.8	18.2
53698 2000 DW_{93}	15.7	X	104.41502	134.62247	120.64851	6.74350	0.0888869	0.25661994	2.4525006	21	11 1.9	19.3
53699 2000 DB_{94}	15.6	X	241.38164	134.77760	105.32291	3.04192	0.1628272	0.27070766	2.3666590	21	—	—
53700 2000 DU_{94}	16.3	X	213.52403	118.82049	85.98615	2.01092	0.0768533	0.31028410	2.1608753	21	—	—
53701 2000 DA_{98}	15.6	X	215.91689	48.01831	108.24407	4.58218	0.0663778	0.30492262	2.1861315	21	11 7.0	18.2
53702 2000 DW_{100}	15.0	X	241.49965	300.83423	23.12926	6.34752	0.1633161	0.28230783	2.3013752	21	3 6.7	18.6
53703 2000 DA_{101}	14.8	X	216.47937	310.22471	16.30870	7.35971	0.1373601	0.27950645	2.3167268	21	2 15.8	18.3
53704 2000 DN_{101}	15.6	X	358.12297	28.84458	119.57258	7.15731	0.0582205	0.27546747	2.3393175	21	—	—
53705 2000 DH_{102}	15.5	X	6.21501	171.10194	111.43462	6.19929	0.1742333	0.29111539	2.2547199	21	7 21.2	16.9
53706 2000 DB_{103}	15.6	X	100.99183	281.79790	91.08382	5.17364	0.1500754	0.27204727	2.3588834	21	—	—
53707 2000 DC_{103}	14.6	X	298.05762	279.83280	13.85101	9.39937	0.1986295	0.23740895	2.5830808	21	3 26.9	18.2
53708 2000 DZ_{103}	16.0	X	36.76356	315.18287	37.26931	5.89912	0.0115880	0.26003054	2.4310085	21	11 30.9	19.2
53709 2000 DS_{104}	15.7	X	215.91672	188.56879	108.03751	6.47233	0.1263507	0.27394989	2.3479489	21	1 6.6	19.0
53710 2000 DZ_{107}	16.2	X	139.06072	195.83705	68.61086	2.28279	0.0968661	0.30823733	2.1704306	21	12 27.1	19.1
53711 2000 DP_{108}	16.1	X	19.32289	306.87540	175.77868	3.24643	0.1133657	0.27635722	2.3342937	21	—	—
53712 2000 DR_{109}	15.2	X	225.43481	243.12958	44.31215	6.55882	0.1288986	0.22761747	2.6566376	21	1 13.4	19.5
53713 2000 DF_{110}	16.9	X	224.63462	316.88506	229.71459	0.68380	0.0775460	0.30818898	2.1706575	21	12 28.6	19.3
53714 2000 EY	14.6	X	295.97256	348.93436	6.22538	3.07864	0.1740444	0.28985381	2.2612576	21	6 17.4	17.0
53715 2000 EB_{2}	16.3	X	58.65274	166.99682	165.62286	6.06319	0.0413697	0.30702291	2.1761502	21	12 19.2	19.0
53716 2000 EU_{7}	15.8	X	347.60671	161.61112	130.37712	3.15007	0.1769280	0.29032760	2.2587968	21	6 18.8	17.2
53717 2000 EG_{10}	16.1	X	233.85980	60.98515	210.38495	1.25686	0.0488363	0.27333654	2.3514600	21	—	—
53718 2000 EB_{17}	16.1	X	327.39202	192.94025	6.77260	2.31695	0.1554996	0.27561423	2.3384870	21	—	—
53719 2000 EP_{19}	15.2	X	148.71945	323.45246	111.11268	8.09151	0.0761311	0.28477381	2.2880702	21	4 21.9	18.3
53720 2000 EN_{24}	15.9	X	30.56331	77.55793	358.70757	4.57824	0.1198129	0.26963223	2.3729478	21	—	—
53721 2000 EO_{24}	16.1	X	265.87444	342.05210	189.56858	1.04588	0.1210827	0.26461497	2.4028488	21	—	—
53722 2000 ER_{27}	15.9	X	263.36283	196.45930	70.06353	7.25381	0.0857158	0.27848099	2.3224106	21	1 19.0	19.1
53723 2000 EY_{29}	15.4	X	238.03889	199.62482	129.12168	7.39609	0.1323227	0.28334783	2.2957405	21	3 10.7	18.8
53724 2000 ET_{30}	16.2	X	54.84948	203.42654	51.48412	7.30200	0.0515743	0.29517076	2.2340205	21	8 27.5	18.8
53725 2000 EG_{32}	15.0	X	97.36271	230.28531	72.79045	3.46372	0.1983554	0.26045537	2.4283643	21	12 29.7	18.9
53726 2000 EL_{34}	15.4	X	75.71407	202.24778	59.98985	9.14407	0.0404989	0.25198420	2.4824881	21	10 1.7	18.7
53727 2000 ET_{34}	13.8	X	301.36686	170.30595	107.96403	17.85125	0.0751729	0.23420993	2.6065487	21	4 7.4	17.7
53728 2000 ET_{36}	15.3	X	73.85229	353.53845	158.62269	3.32925	0.1140788	0.28441405	2.2899993	21	4 30.2	17.6
53729 2000 EF_{37}	15.6	X	171.81710	325.56318	183.01196	7.29944	0.0882120	0.29619446	2.2288701	21	8 27.1	18.6
53730 2000 EL_{37}	15.5	X	216.96544	249.79554	311.10821	2.18908	0.1429002	0.26139922	2.4225153	21	12 17.7	18.8
53731 2000 EL_{39}	14.6	X	224.71917	205.43745	9.57846	6.73403	0.0371504	0.26435571	2.4044195	21	—	—
53732 2000 EZ_{40}	16.1	X	226.79561	138.50325	23.93358	1.48856	0.1324158	0.25860087	2.4399601	21	11 10.4	19.5
53733 2000 EA_{45}	16.2	X	265.81837	196.57189	203.04682	4.33338	0.0700837	0.29385463	2.2406861	21	7 25.5	18.8
53734 2000 EB_{46}	15.0	X	115.79680	61.68211	347.06431	6.53367	0.1328675	0.27624016	2.3349531	21	2 9.6	17.7
53735 2000 EQ_{47}	14.8	X	315.15574	286.61421	15.97974	4.10803	0.1759666	0.23774343	2.5806575	21	5 3.6	17.9
53736 2000 EJ_{48}	15.5	X	114.10459	159.20662	15.43004	6.92106	0.0326733	0.29071340	2.2567980	21	7 20.9	18.3
53737 2000 EQ_{48}	15.3	X	191.65806	36.92169	212.25602	1.11784	0.1361078	0.26207522	2.4183477	21	—	—
53738 2000 EZ_{48}	16.0	X	266.37333	110.36577	334.45846	3.07878	0.0862914	0.30004721	2.2097492	21	9 30.4	18.4
53739 2000 EB_{49}	15.4	X	102.90105	352.53794	282.96212	1.26639	0.0747223	0.25485946	2.4637816	21	11 21.5	18.9
53740 2000 EN_{50}	14.3	X	52.42057	39.53851	359.34641	26.28918	0.2872222	0.22315409	2.6919448	21	—	—
53741 2000 ER_{50}	16.1	X	161.28824	237.62211	177.36518	4.43049	0.1467087	0.28382094	2.2931885	21	4 13.4	19.4
53742 2000 ED_{55}	14.5	X	274.65839	225.96681	68.23078	6.86771	0.1230128	0.27750013	2.3278800	21	3 7.9	17.8
53743 2000 EX_{55}	15.7	X	127.69515	162.33681	151.46992	7.42762	0.1354849	0.26697522	2.3886659	21	—	—
53744 2000 ET_{56}	14.2	X	196.24401	297.36011	7.07166	12.38472	0.1662867	0.22438267	2.6821095	21	1 9.8	18.8
53745 2000 EG_{57}	15.7	X	247.83995	301.75486	214.19617	0.69396	0.1267068	0.26145876	2.4221475	21	11 30.6	18.7
53746 2000 EM_{57}	16.4	X	265.15864	306.81655	247.89900	0.50185	0.1272275	0.26723647	2.3871089	21	—	—
53747 2000 EQ_{57}	15.9	X	25.47216	338.23946	237.41225	1.36533	0.1706929	0.28440453	2.2900504	21	5 9.9	17.3
53748 2000 EW_{57}	15.7	X	166.14197	314.02795	327.22400	2.77316	0.1832268	0.26316950	2.4116393	21	—	—
53749 2000 EL_{58}	14.5	X	172.83072	87.82846	174.71642	9.11405	0.1230743	0.21556774	2.7547374	21	—	—
53750 2000 EC_{61}	16.5	X	251.56360	265.51767	190.89235	3.54550	0.0609785	0.30005519	2.2097100	21	9 30.4	19.0
53751 2000 EN_{62}	16.1	X	37.65677	268.48052	148.78284	2.95160	0.1150475	0.26840780	2.3801589	21	—	—
53752 2000 EC_{64}	15.5	X	240.33039	333.16877	16.74279	3.27140	0.1761886	0.28345963	2.2951368	21	4 4.6	19.1
53753 2000 EV_{66}	15.6	X	133.61777	296.24713	26.06650	2.18306	0.1434986	0.26486304	2.4013482	21	—	—
53754 2000 ED_{69}	15.4	X	79.46752	29.03546	11.62501	7.17206	0.1158745	0.27031281	2.3689631	21	—	—
53755 2000 EA_{70}	16.0	X	339.87368	276.10905	224.10741	1.95710	0.1167897	0.27031935	2.3689249	21	—	—
53756 2000 EN_{70}	15.5	X	296.47723	63.30348	178.41650	7.56392	0.0642984	0.22948758	2.6421852	21	2 3.9	19.3
53757 2000 EP_{74}	14.9	X	50.77098	244.23875	157.85102	9.31841	0.1786368	0.26542714	2.3979447	21	—	—
53758 2000 ED_{76}	14.9	X	322.97877	241.82218	103.01803	4.99050	0.1442581	0.29652182	2.2272294	21	7 28.7	16.5
53759 2000 EE_{76}	15.5	X	72.66154	258.65777	99.62938	6.92611	0.1525029	0.31283429	2.1491158	21	—	—
53760 2000 ET_{76}	15.5	X	26.43193	111.31931	83.88098	5.91356	0.0751871	0.28438022	2.2901809	21	4 9.7	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53761 2000 EB_{77}	16.0	X	301.47161	352.29820	75.23009	6.25036	0.0449453	0.30446180	2.1883369	21	11 9.5	18.2
53762 2000 EM_{79}	15.4	X	205.47147	202.98236	12.19149	6.20052	0.0798923	0.26352652	2.4094606	21	12 31.8	18.8
53763 2000 EH_{80}	15.9	X	59.49131	152.01297	21.23922	3.28775	0.0891843	0.28601997	2.2814195	21	5 1.7	18.2
53764 2000 EV_{81}	15.2	X	313.69428	236.25861	92.98946	4.20336	0.2209789	0.29120600	2.2542522	21	5 30.1	17.2
53765 2000 EZ_{82}	14.8	X	248.23871	246.52970	18.91569	13.10883	0.1539363	0.22712462	2.6604795	21	1 8.4	19.3
53766 2000 EG_{83}	15.3	X	233.35820	232.95514	51.08598	6.31325	0.1266677	0.27394852	2.3479566	21	1 8.7	18.8
53767 2000 EV_{84}	14.0	X	116.14326	152.69536	173.39718	18.65153	0.1776839	0.22039085	2.7143989	21	—	—
53768 2000 EW_{84}	15.6	X	327.83205	341.28847	318.90512	8.57255	0.0734321	0.29023099	2.2592981	21	6 2.3	18.2
53769 2000 EU_{85}	15.9	X	12.39265	218.55358	50.44742	3.99856	0.1222382	0.28890327	2.2662148	21	7 9.0	17.7
53770 2000 EA_{86}	15.5	X	169.14110	87.85325	106.12046	3.53456	0.1326810	0.25440353	2.4667244	21	10 21.8	19.3
53771 2000 EL_{86}	16.0	X	186.64109	2.56985	254.98746	3.32601	0.1934893	0.30978754	2.1631838	21	—	—
53772 2000 EJ_{87}	15.5	X	151.85767	233.85301	334.34032	3.72642	0.1090432	0.25401102	2.4692649	21	10 19.6	19.3
53773 2000 EA_{92}	15.0	X	156.69300	232.74042	329.91752	5.80462	0.0988257	0.25399810	2.4693486	21	10 16.5	18.7
53774 2000 EL_{92}	14.7	X	189.53948	284.23536	343.45031	11.97184	0.1809746	0.21803251	2.7339373	21	—	—
53775 2000 EN_{92}	15.9	X	195.50268	179.77909	272.61415	2.73744	0.0333122	0.29181936	2.2510924	21	7 10.7	18.6
53776 2000 EO_{92}	14.2	X	229.97850	156.25234	198.13423	14.42208	0.2042794	0.23646752	2.5899322	21	4 2.9	18.6
53777 2000 EP_{92}	15.3	X	184.96179	130.70606	335.69390	8.12995	0.0439266	0.29239392	2.2481424	21	7 18.6	18.2
53778 2000 ER_{92}	15.1	X	131.77737	298.38030	329.35045	5.99029	0.1970783	0.30288633	2.1959187	21	12 22.1	18.6
53779 2000 EV_{93}	15.0	X	30.26020	19.61618	199.08104	14.19543	0.1391081	0.23953261	2.5677907	21	5 29.4	17.8
53780 2000 ED_{94}	14.8	X	282.31940	41.20257	214.26322	12.51841	0.1319138	0.22995560	2.6385990	21	1 25.0	19.0
53781 2000 EY_{94}	15.6	X	283.71532	323.93416	268.48920	4.29086	0.1830032	0.27228570	2.3575061	21	—	—
53782 2000 EZ_{94}	15.5	X	124.91042	322.97518	259.21192	4.42047	0.1285962	0.29775805	2.2210604	21	10 14.8	18.7
53783 2000 EC_{95}	14.3	X	229.53449	337.86809	304.55876	6.40687	0.1121248	0.22553546	2.6729623	21	1 11.2	18.4
53784 2000 EJ_{97}	15.4	X	115.33771	238.77622	225.66288	6.11636	0.0476038	0.28185724	2.3038273	21	4 10.0	18.2
53785 2000 EL_{97}	14.9	X	319.83816	311.59417	270.51077	5.51550	0.0573361	0.27567521	2.3381421	21	1 31.6	17.8
53786 2000 EM_{97}	14.3	X	68.47159	63.87844	271.35405	2.95167	0.1926564	0.25585745	2.4573707	21	—	—
53787 2000 EX_{101}	14.9	X	102.25908	351.27485	338.01484	4.45352	0.2028504	0.26280303	2.4138807	21	—	—
53788 2000 EW_{103}	14.4	X	110.42068	114.32691	197.33086	13.34364	0.0314279	0.25975651	2.4327179	21	—	—
53789 2000 ED_{104}	17.3	X	219.84773	218.33309	190.02620	40.78539	0.2692134	0.61422574	1.3706210	21	5 13.5	19.6
53790 2000 EV_{105}	14.3	X	63.92706	35.63876	118.95264	10.07665	0.0762308	0.18944446	3.0024891	21	4 26.4	18.4
53791 2000 EF_{106}	15.6	X	334.28092	185.75087	65.36852	7.53082	0.1043898	0.28166037	2.3049007	21	4 1.2	18.1
53792 2000 EU_{109}	15.1	X	205.00024	236.26705	104.67468	4.95549	0.1614230	0.27458103	2.3443495	21	2 22.7	18.8
53793 2000 EX_{110}	15.8	X	336.18329	100.12346	83.21053	5.58709	0.0383447	0.27505008	2.3416835	21	1 6.4	18.5
53794 2000 EZ_{110}	15.5	X	39.28887	46.09526	83.35864	6.33670	0.0820888	0.27725728	2.3292391	21	1 23.5	17.9
53795 2000 EB_{111}	14.0	X	294.24351	253.86847	51.85675	9.53357	0.0710795	0.19207184	2.9750453	21	4 30.6	18.0
53796 2000 EK_{111}	15.9	X	98.44373	184.20819	67.80749	7.87984	0.1824334	0.29738747	2.2229052	21	11 3.2	19.1
53797 2000 EL_{111}	13.8	X	165.78634	194.89879	112.46002	10.83053	0.2758689	0.21887408	2.7269248	21	—	—
53798 2000 ER_{112}	14.9	X	342.68624	77.82009	212.53735	6.15925	0.1438372	0.28817382	2.2700375	21	6 8.1	16.7
53799 2000 EP_{118}	14.9	X	118.97723	1.17487	26.34882	11.22957	0.1809180	0.27868519	2.3212760	21	1 25.6	17.9
53800 2000 EZ_{118}	15.8	X	198.18418	18.54097	73.47632	8.03482	0.0549775	0.29502297	2.2347666	21	7 13.6	18.7
53801 2000 EN_{119}	15.0	X	129.80806	202.26118	86.98320	7.67702	0.1192456	0.26318701	2.4115323	21	—	—
53802 2000 EQ_{120}	14.1	X	200.58527	225.36441	50.94912	7.51233	0.2818903	0.22191619	2.7019464	21	—	—
53803 2000 EN_{121}	14.6	X	162.94569	187.04444	35.69160	9.91166	0.0876925	0.21397544	2.7683868	21	11 13.6	18.7
53804 2000 ES_{127}	15.8	X	33.18310	182.29938	77.03296	4.71702	0.1515433	0.29038707	2.2584884	21	8 11.1	17.8
53805 2000 EH_{128}	15.6	X	289.76263	170.71978	113.03701	3.19204	0.2180273	0.27927229	2.3180216	21	2 25.0	18.8
53806 2000 EG_{130}	15.8	X	254.97117	128.53211	29.88198	2.84102	0.0839251	0.30893011	2.1671845	21	—	—
53807 2000 EV_{130}	15.8	X	286.39268	180.45487	37.74267	2.58403	0.1659366	0.27211088	2.3585157	21	—	—
53808 2000 EH_{132}	16.4	X	196.39781	233.80468	203.98072	2.72958	0.1015023	0.29155827	2.2524361	21	6 18.7	19.5
53809 2000 EH_{134}	15.9	X	236.33545	188.61855	83.64067	7.26194	0.1193802	0.27094717	2.3652641	21	—	—
53810 2000 EU_{134}	15.0	X	268.16589	74.24801	156.20522	7.25061	0.1452751	0.22412712	2.6841479	21	—	—
53811 2000 EV_{135}	15.6	X	101.65603	18.14093	67.93456	7.07825	0.0642567	0.27921244	2.3183528	21	3 4.0	18.4
53812 2000 EL_{136}	14.3	X	213.72459	307.13087	8.95131	11.46421	0.1952572	0.22878965	2.6475559	21	2 8.7	18.9
53813 2000 EM_{136}	14.6	X	254.04275	173.58026	152.99388	7.59615	0.2393361	0.28177242	2.3042896	21	3 15.9	18.4
53814 2000 EH_{137}	16.3	X	264.88865	31.81617	26.33672	3.19389	0.1192201	0.29787933	2.2204575	21	8 15.7	18.7
53815 2000 EQ_{137}	14.5	X	272.77094	53.55651	142.68797	6.48340	0.1761960	0.26598575	2.3945862	21	—	—
53816 2000 EV_{137}	14.2	X	322.17235	52.07427	161.06529	8.11035	0.1340958	0.22730652	2.6590599	21	1 21.9	17.8
53817 2000 EO_{138}	14.6	X	150.26222	226.86985	43.07961	17.77589	0.1736107	0.21310559	2.7759150	21	12 26.2	19.5
53818 2000 EV_{138}	14.3	X	274.98484	222.32068	70.30348	13.19784	0.1428009	0.23204462	2.6227388	21	3 13.8	18.4
53819 2000 ER_{139}	13.5	X	90.88692	49.39632	49.47754	11.12832	0.1139311	0.18721927	3.0262329	21	3 29.0	17.7
53820 2000 EA_{140}	15.6	X	46.19427	113.45328	302.19203	2.19777	0.0524994	0.26859380	2.3790600	21	—	—
53821 2000 ET_{144}	15.5	X	234.82262	128.61593	263.72216	3.12808	0.1228423	0.28977097	2.2616885	21	5 28.9	18.5
53822 2000 EW_{144}	15.3	X	128.75537	345.71977	294.57989	1.93830	0.1806641	0.25785242	2.4446794	21	12 28.1	19.3
53823 2000 ED_{145}	15.9	X	233.79130	146.03772	315.94160	3.23384	0.0583194	0.29789752	2.2203671	21	9 12.1	18.7
53824 2000 EV_{145}	15.6	X	67.68757	65.76823	78.06089	6.68133	0.0518083	0.28381331	2.2932296	21	4 1.3	18.2
53825 2000 EB_{148}	15.6	X	120.43547	3.68667	178.54833	6.07452	0.1254294	0.24600551	2.5225483	21	8 14.3	19.3
53826 2000 ER_{148}	15.4	X	350.58725	265.41853	14.69398	5.06738	0.1797990	0.28536178	2.2849262	21	6 3.5	17.2
53827 2000 EH_{149}	15.5	X	45.17367	202.77056	128.12095	4.19877	0.0715000	0.25930760	2.4355248	21	11 24.4	18.5
53828 2000 ED_{155}	14.8	X	171.24501	308.22356	320.39751	6.95551	0.1583625	0.21629918	2.7485236	21	—	—
53829 2000 EN_{156}	15.3	X	328.30640	101.39685	78.83842	11.29634	0.0606115	0.27669686	2.3323831	21	—	—
53830 2000 ED_{157}	14.1	X	159.83843	255.50658	92.76535	13.20312	0.1842057	0.22421362	2.6834575	21	1 29.6	18.4
53831 2000 ED_{158}	14.9	X	58.74057	8.53149	208.93133	15.63785	0.0890085	0.24248387	2.5469132	21	7 5.6	18.4
53832 2000 EQ_{158}	15.2	X	349.49054	9.75230	244.65559	9.54489	0.1615080	0.28349383	2.2949522	21	4 18.5	17.2
53833 2000 EB_{165}	15.3	X	261.07008	168.90453	164.94964	6.41459	0.1325720	0.28481887	2.2878289	21	4 10.2	18.4
53834 2000 ES_{179}	14.9	X	264.44326	181.48961	69.36930	11.70002	0.2156768	0.22803464	2.6533966	21	—	—
53835 2000 EK_{180}	14.4	X	201.62410	172.69588	118.87819	14.63094	0.1797403	0.22616142	2.6680279	21	—	—
53836 2000 EB_{185}	15.0	X	185.97264	287.32159	122.30182	13.15709	0.2763346	0.24264844	2.5457615	21	5 9.9	19.8
53837 2000 EJ_{185}	15.9	X	177.70453	46.77454	19.60936	4.59597	0.0482319	0.28811611	2.2703406	21	5 9.4	18.8
53838 2000 EA_{194}	16.0	X	342.86049	164.45222	268.99676	0.47237	0.1604799	0.26493577	2.4009087	21	—	—
53839 2000 EY_{197}	16.1	X	91.87455	258.15337	247.00259	5.08034	0.0940243	0.28648907	2.2789284	21	5 13.2	18.7
53840 2000 EE_{200}	15.4	X	311.32953	61.29312	276.22165	7.00453	0.0981622	0.29389539	2.2404790	21	6 29.8	17.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53841 2000 FX	15.3	X	87.62566	186.96709	160.63549	3.25717	0.1870937	0.26257811	2.4152589	21	—	—
53842 2000 FT_9	16.7	X	24.10592	266.57509	180.11356	1.97615	0.1726824	0.27028382	2.3691325	21	—	—
53843 Antjiekrog	14.1	X	229.72794	218.82729	72.59041	10.02453	0.0762840	0.27188451	2.3598247	21	1 15.3	17.6
53844 2000 FO_{11}	14.2	X	342.19911	183.23128	77.52702	14.55035	0.1222504	0.24004929	2.5641048	21	5 3.6	17.2
53845 2000 FZ_{11}	14.4	X	148.40147	178.43659	66.37370	9.94264	0.2499070	0.21145887	2.7903078	21	11 26.6	19.3
53846 2000 FD_{13}	14.8	X	148.88809	194.00905	98.90292	15.22936	0.1826417	0.21618380	2.7495014	21	—	—
53847 2000 FJ_{13}	14.9	X	159.47313	136.58450	143.57645	9.52659	0.1373354	0.21683613	2.7439842	21	—	—
53848 2000 FT_{13}	13.4	X	223.90647	249.33378	60.76775	18.77150	0.1229177	0.18096695	3.0955408	21	2 21.7	18.6
53849 2000 FU_{15}	15.7	X	206.48042	317.61114	99.42185	4.13750	0.1316959	0.29101619	2.2552323	21	5 31.8	19.0
53850 2000 FP_{16}	15.6	X	231.16601	62.12240	89.34926	7.38429	0.0715489	0.25840087	2.4412190	21	11 12.3	18.7
53851 2000 FR_{16}	13.9	X	170.63648	331.15677	40.11772	14.59791	0.1729440	0.23294204	2.6159983	21	3 11.7	18.3
53852 2000 FM_{17}	15.8	X	307.16470	299.43130	96.38258	7.01276	0.1660212	0.30022050	2.2088988	21	9 21.1	17.6
53853 2000 FN_{18}	15.1	X	16.76277	307.57235	125.50967	9.86619	0.0975418	0.22069294	2.7119214	21	—	—
53854 2000 FB_{19}	15.2	X	147.38265	164.22613	131.55545	12.86011	0.0359141	0.26430796	2.4047092	21	—	—
53855 2000 FT_{19}	15.1	X	225.22791	177.34053	104.87310	7.68656	0.1077822	0.27176740	2.3605026	21	—	—
53856 2000 FF_{21}	15.6	X	183.55557	359.07207	61.56025	10.50414	0.1148254	0.28753921	2.2733763	21	5 12.7	18.9
53857 2000 FQ_{21}	14.2	X	279.15452	193.99879	142.73881	14.57210	0.2577692	0.23855293	2.5748161	21	4 26.8	18.3
53858 2000 FT_{22}	15.9	X	123.50048	121.39560	26.80006	6.63827	0.0718418	0.28918413	2.2647473	21	6 28.4	18.8
53859 2000 FZ_{23}	15.1	X	209.52564	267.57683	130.83905	12.95063	0.0328591	0.23891670	2.5722019	21	5 20.1	18.9
53860 2000 FV_{25}	15.9	X	0.05013	323.01953	112.93267	3.06410	0.0956940	0.26456133	2.4031736	21	—	—
53861 2000 FW_{25}	14.8	X	92.51210	342.88186	37.17942	7.68068	0.1484051	0.26817363	2.3815443	21	—	—
53862 2000 FA_{26}	14.5	X	139.59940	279.98081	60.18054	3.04652	0.0933351	0.22199070	2.7013417	21	—	—
53863 2000 FJ_{26}	15.0	X	233.13112	82.82534	89.02652	3.18616	0.1468799	0.26032399	2.4291813	21	11 29.2	18.2
53864 2000 FM_{28}	16.2	X	51.16697	244.26430	354.17312	5.40950	0.1256247	0.28910254	2.2651734	21	8 6.0	18.5
53865 2000 FS_{29}	15.0	X	284.66172	332.64414	15.00138	5.65469	0.1305148	0.24092124	2.5579143	21	5 28.9	18.4
53866 2000 FK_{30}	15.9	X	301.29654	51.64665	53.40574	4.14061	0.1036958	0.30723832	2.1751329	21	—	—
53867 2000 FL_{30}	15.0	X	15.92437	67.56129	152.67471	3.38313	0.1738144	0.23634625	2.5908180	21	5 3.3	17.3
53868 2000 FP_{30}	15.2	X	263.93787	111.90001	80.44652	3.23034	0.1191601	0.26575159	2.3959926	21	—	—
53869 2000 FS_{30}	15.4	X	211.18502	222.47928	88.12205	5.13202	0.0869195	0.22652413	2.6651791	21	1 27.3	19.3
53870 2000 FT_{30}	14.4	X	28.17307	291.44689	51.40120	7.24374	0.1377350	0.25362778	2.4717517	21	11 24.3	17.2
53871 2000 FN_{31}	14.5	X	255.32991	333.37214	59.75313	9.45954	0.1662907	0.29397642	2.2400672	21	6 17.7	17.5
53872 2000 FG_{32}	15.7	X	10.22943	155.40805	146.66326	4.81617	0.1719568	0.29164923	2.2519677	21	9 4.8	17.1
53873 2000 FS_{32}	15.8	X	305.64568	133.87802	40.02060	5.94389	0.0741578	0.26941923	2.3741983	21	—	—
53874 2000 FB_{33}	14.0	X	250.93017	246.15491	109.08845	15.48642	0.1372022	0.23934863	2.5691064	21	5 5.7	18.1
53875 2000 FN_{33}	13.9	X	214.43218	343.83160	92.01462	13.31021	0.0370016	0.20000206	2.8958745	21	7 11.8	18.1
53876 2000 FY_{34}	15.2	X	248.63116	250.98444	131.21675	4.24497	0.1882194	0.28899742	2.2657226	21	5 25.4	18.6
53877 2000 FS_{35}	15.6	X	130.56009	286.19217	152.31339	7.22664	0.1244060	0.28216199	2.3021681	21	4 9.5	18.6
53878 2000 FY_{35}	14.2	X	277.09675	184.51785	78.23849	14.72393	0.0800567	0.22972796	2.6403418	21	2 11.5	18.2
53879 2000 FE_{36}	14.1	X	284.23398	305.16070	36.20647	15.15921	0.1989616	0.23964774	2.5669682	21	5 8.9	17.6
53880 2000 FJ_{37}	14.9	X	214.44809	334.51914	94.23639	5.06122	0.1378121	0.24513187	2.5285383	21	6 25.1	18.5
53881 2000 FW_{37}	15.4	X	89.15769	342.11741	69.35493	7.58312	0.0997268	0.27215037	2.3582876	21	—	—
53882 2000 FN_{38}	15.1	X	118.83052	356.18637	40.73192	6.91937	0.1338136	0.27391428	2.3481523	21	1 30.3	18.0
53883 2000 FN_{39}	16.0	X	159.52545	63.38368	99.01661	2.94632	0.0878609	0.29486235	2.2355781	21	9 3.9	18.9
53884 2000 FT_{39}	15.3	X	272.73047	52.46312	96.57530	3.65944	0.0515079	0.26144556	2.4222290	21	—	—
53885 2000 FX_{39}	16.1	X	118.23141	151.77299	46.74993	6.37447	0.1054039	0.29350124	2.2424844	21	9 8.8	19.2
53886 2000 FY_{39}	14.6	X	7.32991	146.91631	156.96721	6.84547	0.1909451	0.24353990	2.5395453	21	8 27.0	16.6
53887 2000 FS_{40}	15.1	X	84.01823	34.74095	170.31500	14.52663	0.0201299	0.24354284	2.5395249	21	7 15.2	18.6
53888 2000 FW_{40}	14.7	X	179.97998	239.81586	77.61841	6.92258	0.1324772	0.26865783	2.3786820	21	—	—
53889 2000 FB_{41}	15.7	X	202.34957	79.01235	74.83435	4.73575	0.1077921	0.25341266	2.4731503	21	10 7.1	19.2
53890 2000 FR_{41}	14.8	X	123.36702	224.78764	69.14945	6.73679	0.1988219	0.30367874	2.1920971	21	—	—
53891 2000 FM_{42}	15.2	X	352.59540	186.94481	25.36962	13.23352	0.0306499	0.27902573	2.3193870	21	3 16.3	18.0
53892 2000 FE_{43}	15.7	X	145.59501	20.93080	112.41481	4.54163	0.0835271	0.29117726	2.2544006	21	7 6.4	18.5
53893 2000 FQ_{44}	15.6	X	292.65454	165.00414	122.28853	5.14784	0.0732381	0.28152851	2.3056204	21	3 25.8	18.5
53894 2000 FV_{44}	15.7	X	346.91938	86.48689	51.14826	6.80952	0.0453791	0.27069434	2.3667366	21	—	—
53895 2000 FB_{46}	15.4	X	297.23888	43.41375	128.09456	7.58539	0.0433487	0.26762673	2.3847877	21	—	—
53896 2000 FL_{46}	16.0	X	125.93803	90.94983	62.41244	7.53820	0.0917656	0.29009383	2.2600102	21	7 12.0	19.0
53897 2000 FD_{48}	15.6	X	282.74967	154.12667	78.07064	8.17664	0.0756727	0.27222160	2.3578762	21	—	—
53898 2000 FU_{48}	15.0	X	333.86813	223.18381	279.72193	6.41777	0.0677099	0.26857944	2.3791448	21	—	—
53899 2000 FM_{49}	15.7	X	16.46400	321.56605	250.39156	5.45400	0.0544917	0.28152533	2.3056377	21	4 12.7	18.3
53900 2000 FV_{49}	15.3	X	248.71690	295.66732	259.00141	4.64966	0.1140924	0.30932807	2.1653254	21	—	—
53901 2000 FE_{50}	14.4	X	147.29067	25.87881	17.80584	26.96193	0.2492415	0.27814635	2.3242730	21	3 29.4	18.1
53902 2000 FW_{52}	16.3	X	34.29999	242.22473	154.51938	1.31604	0.1862688	0.26349996	2.4096225	21	—	—
53903 2000 FD_{55}	15.5	X	90.36736	281.01569	126.69486	5.89471	0.0860553	0.27106206	2.3645957	21	—	—
53904 2000 FE_{56}	15.4	X	224.23156	212.58535	81.85509	5.22355	0.0638967	0.22685382	2.6625963	21	1 21.2	19.3
53905 2000 FY_{59}	16.2	X	201.21491	296.52859	118.03078	8.22249	0.1316481	0.28873741	2.2670826	21	5 24.6	19.7
53906 2000 FH_{61}	14.9	X	226.61583	145.33307	146.19081	4.63199	0.0801589	0.22550230	2.6732243	21	1 18.9	18.8
53907 2000 GL_1	14.9	X	200.83517	195.60261	164.97570	6.95057	0.1442618	0.28131177	2.3068045	21	3 13.1	18.4
53908 2000 GT_2	15.2	X	336.97815	332.50818	121.77794	7.47291	0.0729009	0.26542200	2.3979756	21	—	—
53909 2000 GC_4	14.8	X	217.14307	260.25198	342.46155	1.50078	0.1691991	0.26291403	2.4132012	21	—	—
53910 Janfischer	15.4	X	5.57121	113.44121	318.30759	0.02200	0.1211222	0.26428391	2.4048551	21	—	—
53911 2000 GZ_4	16.3	X	280.86303	112.76834	26.70156	4.18177	0.0616429	0.30976347	2.1632958	21	—	—
53912 2000 GL_5	16.1	X	353.57691	313.25638	198.09602	5.79603	0.0788433	0.27419644	2.3465412	21	—	—
53913 2000 GS_6	15.4	X	151.89870	214.55045	176.69941	6.18820	0.1154396	0.27767117	2.3269240	21	2 26.6	18.4
53914 2000 GO_7	14.8	X	156.71457	144.11335	116.32111	7.31441	0.1091387	0.25791636	2.4442753	21	12 30.7	18.5
53915 2000 GR_7	15.7	X	251.02527	108.43160	129.51527	7.13622	0.0608899	0.26773996	2.3841153	21	—	—
53916 2000 GW_7	14.7	X	164.94682	348.64854	80.72914	10.53537	0.2477972	0.28463567	2.2888105	21	5 13.1	18.6
53917 2000 GP_{17}	15.9	X	12.47545	107.81768	23.88100	7.09716	0.0518618	0.27278882	2.3546065	21	—	—
53918 2000 GM_{18}	15.6	X	107.85683	16.11126	357.45128	2.61885	0.1832830	0.26917837	2.3756144	21	—	—
53919 2000 GX_{18}	15.4	X	31.39549	74.92853	212.56989	1.97173	0.1140433	0.20004901	2.8954214	21	9 2.7	19.1
53920 2000 GA_{21}	15.3	X	212.13963	150.94356	199.50910	9.48292	0.1433663	0.27850309	2.3222878	21	3 8.9	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
53921 2000 GC_{25}	14.4	X	54.01983	62.93845	205.44887	4.36306	0.0621898	0.20075025	2.8886748	21	9 2.4	18.4
53922 2000 GC_{27}	15.1	X	234.85894	198.99481	160.84387	2.65894	0.2444137	0.23576258	2.5950923	21	4 12.9	19.5
53923 2000 GW_{30}	15.0	X	25.60426	206.31408	187.46439	2.29753	0.2264714	0.26166729	2.4208605	21	—	—
53924 2000 GJ_{37}	14.2	X	229.68355	287.82942	29.02645	3.04263	0.1893329	0.22726438	2.6593886	21	2 19.8	18.6
53925 2000 GF_{38}	15.7	X	47.45726	275.68720	173.02365	3.00446	0.0175251	0.22414353	2.6840169	21	—	—
53926 2000 GR_{38}	14.7	X	331.91696	359.99365	30.98990	8.47710	0.0688974	0.25337503	2.4733952	21	10 24.7	17.2
53927 2000 GB_{39}	15.4	X	10.95125	156.67764	26.25781	5.58650	0.0349385	0.23153305	2.6266007	21	3 7.3	18.6
53928 2000 GT_{39}	16.1	X	318.17664	227.83218	191.92356	2.03206	0.1184134	0.25620178	2.4551684	21	11 11.6	18.6
53929 2000 GQ_{40}	14.7	X	305.56505	231.41949	17.68232	12.68277	0.1216719	0.23008720	2.6375928	21	2 23.6	18.4
53930 2000 GO_{42}	15.8	X	348.52102	191.42148	213.29210	5.48768	0.1082248	0.25737403	2.4477078	21	12 14.3	18.3
53931 2000 GQ_{42}	15.7	X	317.89634	305.20545	229.67030	1.54131	0.1491930	0.27043195	2.3682673	21	—	—
53932 2000 GB_{43}	15.3	X	123.77099	255.87801	19.25295	3.94735	0.0857366	0.21014988	2.8018827	21	12 6.8	19.5
53933 2000 GG_{44}	15.0	X	212.34195	189.02784	143.99469	2.12891	0.2170986	0.18090748	3.0962192	21	2 28.1	20.2
53934 2000 GQ_{44}	15.4	X	338.24142	248.19020	74.82837	1.42135	0.1144111	0.24338545	2.5406196	21	7 24.9	18.1
53935 2000 GK_{45}	15.7	X	84.89175	319.94843	185.71491	6.04352	0.0238193	0.23622914	2.5916742	21	4 28.5	19.0
53936 2000 GO_{45}	15.9	X	82.84332	255.07251	138.10812	1.87817	0.1862109	0.26795940	2.3828135	21	—	—
53937 2000 GS_{45}	15.7	X	309.21193	344.17167	189.38104	5.99202	0.0564631	0.26866484	2.3786406	21	—	—
53938 2000 GZ_{45}	14.0	X	191.78564	84.28908	177.96820	3.38144	0.0594264	0.21747028	2.7386473	21	—	—
53939 2000 GM_{46}	14.6	X	236.35127	150.80789	205.47062	8.37929	0.1113884	0.23528446	2.5986067	21	4 17.2	18.3
53940 2000 GU_{47}	16.3	X	86.94885	283.63971	200.32191	2.67039	0.1275905	0.23504176	2.6003952	21	4 16.7	19.3
53941 2000 GD_{48}	14.8	X	95.14471	246.29536	22.74219	15.04966	0.1251019	0.20508416	2.8478338	21	10 31.4	19.2
53942 2000 GH_{49}	14.9	X	200.75092	124.82341	221.17044	1.41213	0.1069851	0.22865961	2.6485596	21	2 27.3	18.9
53943 2000 GF_{50}	15.6	X	230.85439	264.20753	32.07163	7.00037	0.1132756	0.27203991	2.3589259	21	1 23.3	19.2
53944 2000 GZ_{51}	15.5	X	29.74959	284.69020	166.44887	3.36011	0.1058521	0.26927821	2.3750271	21	—	—
53945 2000 GK_{52}	15.3	X	23.33172	189.28093	27.50580	5.41453	0.0519491	0.28308433	2.2971648	21	5 2.8	17.7
53946 2000 GC_{53}	15.1	X	125.86723	358.19197	2.74459	2.17940	0.1939459	0.26691530	2.3890234	21	—	—
53947 2000 GY_{53}	15.0	X	202.88745	97.08828	144.09638	1.65978	0.0032584	0.21651642	2.7466848	21	—	—
53948 2000 GZ_{53}	16.4	X	356.24367	187.38569	30.81884	2.89855	0.1168225	0.27939576	2.3173386	21	3 16.4	18.7
53949 2000 GO_{54}	15.7	X	188.92908	170.46060	4.59587	3.00603	0.1393686	0.25370266	2.4712653	21	10 14.9	19.3
53950 2000 GX_{56}	15.1	X	284.38417	234.44979	34.01777	6.84429	0.0703356	0.27586754	2.3370553	21	2 19.6	18.2
53951 2000 GC_{58}	14.5	X	161.24623	40.63061	17.06147	8.50171	0.0957676	0.28085652	2.3092965	21	4 11.7	17.6
53952 2000 GF_{59}	14.8	X	263.77882	40.08810	197.80681	12.74062	0.1102524	0.22301948	2.6930279	21	—	—
53953 2000 GP_{59}	15.0	X	39.30860	6.91750	34.60971	10.45609	0.2122570	0.26306201	2.4122962	21	—	—
53954 2000 GD_{60}	16.3	X	343.72229	240.16335	19.46046	2.20529	0.1282401	0.28188935	2.3036523	21	4 22.6	18.5
53955 2000 GJ_{60}	15.1	X	323.08262	325.62884	197.54610	1.50836	0.1107649	0.22265370	2.6959765	21	—	—
53956 2000 GP_{60}	14.6	X	169.19837	166.05772	206.48697	8.22690	0.1213072	0.22799760	2.6536840	21	2 27.1	18.7
53957 2000 GJ_{61}	15.1	X	250.23321	350.16955	21.08630	4.00874	0.1017201	0.23940880	2.5686759	21	5 22.1	18.8
53958 2000 GN_{61}	15.7	X	118.70057	304.34909	23.01365	1.53249	0.0786736	0.21592390	2.7517074	21	—	—
53959 2000 GY_{61}	15.4	X	130.35381	302.33198	51.82433	1.96282	0.0870925	0.22101400	2.7092944	21	—	—
53960 2000 GQ_{62}	14.9	X	261.91625	359.27196	292.23485	0.41451	0.1378662	0.18157758	3.0885970	21	2 26.4	19.5
53961 2000 GB_{63}	15.2	X	69.76358	326.34310	9.54888	2.35709	0.1801027	0.25552187	2.4595217	21	—	—
53962 2000 GK_{63}	15.2	X	305.32363	292.50524	45.53237	2.69661	0.0959546	0.19453143	2.9499152	21	6 22.6	19.1
53963 2000 GQ_{63}	15.2	X	208.75249	287.80154	45.38032	4.67697	0.1827349	0.22623325	2.6674632	21	2 22.9	19.7
53964 2000 GO_{64}	15.2	X	197.68156	329.95005	145.72664	15.03087	0.1223951	0.24706503	2.5153313	21	8 8.7	19.0
53965 2000 GY_{64}	15.9	X	306.62932	18.05261	56.13809	1.85254	0.0936565	0.25545486	2.4599518	21	11 12.6	18.2
53966 2000 GA_{65}	15.4	X	352.29058	157.39620	192.98481	3.93091	0.1669246	0.24765983	2.5113023	21	10 4.9	17.4
53967 2000 GC_{65}	16.3	X	22.27201	115.85963	89.08472	1.09752	0.1482999	0.28118926	2.3074744	21	4 14.5	18.1
53968 2000 GO_{65}	16.2	X	268.23073	133.94306	20.68901	0.31208	0.1518844	0.26173912	2.4204175	21	12 25.9	18.6
53969 2000 GV_{65}	15.2	X	78.59398	209.41240	31.15338	3.66836	0.1198871	0.29190530	2.2506505	21	9 18.1	17.9
53970 2000 GC_{66}	16.1	X	305.37000	148.27728	17.91814	1.57682	0.1292699	0.26733466	2.3865243	21	—	—
53971 2000 GJ_{66}	16.0	X	129.64908	296.51432	209.04425	4.64499	0.1180131	0.24220242	2.5488859	21	7 6.6	19.7
53972 2000 GM_{66}	15.4	X	198.76586	291.62888	3.22096	2.56911	0.0265257	0.26840515	2.3801746	21	—	—
53973 2000 GB_{67}	16.0	X	261.91475	117.33307	22.19694	2.88541	0.1373103	0.25901330	2.4373693	21	11 25.8	18.7
53974 2000 GD_{67}	15.2	X	16.43948	27.36691	246.80508	0.98530	0.0749178	0.19499424	2.9452457	21	7 19.0	18.8
53975 2000 GA_{68}	14.3	X	243.70258	275.82920	53.95749	5.99853	0.2083709	0.18353377	3.0666113	21	3 23.4	19.4
53976 2000 GY_{69}	15.9	X	132.14234	229.79451	316.86447	0.62555	0.0601275	0.29278549	2.2461375	21	9 1.7	18.8
53977 2000 GM_{70}	15.3	X	99.03289	13.37649	210.98895	5.96524	0.1337483	0.29265579	2.2468011	21	9 19.5	18.4
53978 2000 GH_{71}	15.5	X	170.18870	30.55593	45.87368	5.61154	0.0246325	0.28358354	2.2944682	21	5 13.5	18.4
53979 2000 GC_{73}	14.9	X	187.12371	204.23836	30.06415	9.89174	0.1323964	0.21227463	2.7831545	21	12 19.3	19.4
53980 2000 GK_{73}	14.5	X	95.01399	206.35030	19.71212	5.58131	0.1009516	0.29222113	2.2490286	21	9 16.5	17.3
53981 2000 GQ_{73}	15.8	X	106.72473	256.53310	221.16478	6.21756	0.0564323	0.28094779	2.3087964	21	4 18.9	18.4
53982 2000 GG_{74}	14.8	X	140.43622	58.89440	38.74671	5.34530	0.0254865	0.23571134	2.5954683	21	5 6.8	18.1
53983 2000 GW_{74}	15.9	X	219.14236	309.63203	188.05486	2.68154	0.1350485	0.25255336	2.4787570	21	9 29.5	19.5
53984 2000 GZ_{76}	16.3	X	359.76652	13.79639	171.63341	0.94822	0.1614190	0.27580857	2.3373884	21	1 26.0	18.3
53985 2000 GG_{77}	14.5	X	100.00640	289.79510	47.33963	5.15575	0.1039509	0.25923461	2.4359819	21	—	—
53986 2000 GH_{77}	14.9	X	74.04911	309.37281	44.11014	9.71153	0.0715193	0.21205839	2.7850462	21	—	—
53987 2000 GR_{77}	16.3	X	65.72553	110.55905	48.67614	0.92309	0.1734484	0.28256234	2.2999931	21	5 5.6	18.5
53988 2000 GW_{78}	16.0	X	53.04283	350.56533	57.67141	2.51721	0.0631370	0.26456051	2.4031785	21	—	—
53989 2000 GT_{79}	16.8	X	130.44983	144.56512	30.82689	2.73676	0.1225697	0.29194483	2.2504474	21	8 20.9	19.9
53990 2000 GZ_{79}	16.0	X	254.33900	176.20425	258.06122	4.57033	0.0536220	0.29599811	2.2298557	21	8 30.9	18.7
53991 2000 GF_{81}	16.1	X	150.00347	143.07335	28.17060	2.58587	0.0938585	0.29404357	2.2397262	21	9 4.8	19.0
53992 2000 GJ_{83}	15.7	X	73.55410	344.56793	187.58173	6.28309	0.2009206	0.28831643	2.2692889	21	6 13.8	18.2
53993 2000 GN_{83}	14.2	X	334.71250	285.77954	36.34399	10.63531	0.2367709	0.24540518	2.5266606	21	7 2.9	16.5
53994 2000 GS_{84}	15.6	X	324.50386	145.18856	116.70884	11.35470	0.1699458	0.27997172	2.3141594	21	3 22.8	18.4
53995 2000 GA_{88}	15.7	X	90.53063	5.77461	112.15006	6.11017	0.1068590	0.28100792	2.3084670	21	4 7.8	18.3
53996 2000 GC_{88}	15.1	X	188.97965	181.33449	52.99254	10.19384	0.1021217	0.21371453	2.7706395	21	12 23.9	19.3
53997 2000 GD_{88}	14.2	X	356.10151	65.77546	48.71586	13.39582	0.1141648	0.22201276	2.7011628	21	—	—
53998 2000 GW_{88}	15.4	X	307.70245	69.93794	97.73954	7.64415	0.0868798	0.26792460	2.3830198	21	—	—
53999 2000 GS_{89}	15.5	X	276.67520	72.65544	227.38811	4.39378	0.1798424	0.28006953	2.3136206	21	3 5.4	19.0
54000 2000 GN_{90}	16.0	X	94.39248	71.01772	116.77167	6.02551	0.1144281	0.28882655	2.2666161	21	7 22.8	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54001 2000 GP_{90}	15.8	X	243.68057	70.86682	67.83341	7.23162	0.0907920	0.25631163	2.4544669	21	11 7.8	18.9
54002 2000 GS_{90}	15.0	X	156.98430	161.56568	112.03832	4.95589	0.1305193	0.30590930	2.1814282	21	—	—
54003 2000 GN_{91}	14.1	X	84.94463	261.92521	66.15909	17.12944	0.2035817	0.20968950	2.8059823	21	—	—
54004 2000 GP_{91}	15.6	X	357.97565	175.59029	76.05602	10.90599	0.1940960	0.28229660	2.3014362	21	5 6.4	17.3
54005 2000 GJ_{93}	14.4	X	146.30808	255.23216	68.24169	13.00348	0.1978695	0.21775251	2.7362804	21	—	—
54006 2000 GM_{93}	14.7	X	157.81506	238.85573	65.08969	12.25053	0.1480679	0.21717133	2.7411600	21	—	—
54007 2000 GE_{94}	13.5	X	260.31188	196.07038	135.03154	11.72754	0.1902314	0.18699608	3.0286404	21	4 11.8	18.4
54008 2000 GU_{94}	14.6	X	253.39551	212.21151	105.02561	13.76847	0.1665172	0.22986916	2.6392604	21	3 19.1	19.0
54009 2000 GN_{95}	15.1	X	57.87131	133.46023	1.65654	5.40838	0.0910609	0.27756373	2.3275244	21	3 5.4	17.5
54010 2000 GU_{95}	15.2	X	321.69170	48.11639	222.29610	11.67317	0.1951005	0.27893412	2.3198948	21	3 16.9	18.2
54011 2000 GB_{96}	15.4	X	59.97134	305.08101	246.85925	5.70018	0.0636629	0.28354853	2.2946570	21	5 28.5	17.7
54012 2000 GQ_{96}	13.8	X	282.62101	42.47817	224.03556	12.10297	0.1435735	0.22688173	2.6623779	21	2 6.3	18.0
54013 2000 GA_{97}	16.4	X	150.02556	162.79178	38.63710	5.98162	0.2524444	0.29632147	2.2282332	21	10 15.9	20.1
54014 2000 GY_{97}	15.2	X	201.53313	277.79257	255.29066	4.49257	0.0853558	0.30203439	2.2000461	21	11 6.0	18.0
54015 2000 GC_{98}	16.0	X	272.30024	168.99684	313.87011	3.60717	0.0602404	0.30501402	2.1856948	21	12 10.9	18.3
54016 2000 GF_{98}	14.8	X	202.94211	64.47481	310.30021	4.13296	0.1913431	0.28125717	2.3071030	21	3 31.2	18.6
54017 2000 GP_{98}	15.9	X	32.47110	14.85062	242.31642	3.16564	0.0472049	0.28973765	2.2618620	21	7 19.4	18.3
54018 2000 GO_{99}	16.3	X	21.64785	244.12861	344.70113	5.51251	0.1235573	0.28413162	2.2915166	21	5 19.5	18.3
54019 2000 GP_{99}	15.8	X	101.06961	300.53356	230.26872	6.38430	0.0338862	0.28793517	2.2712917	21	6 23.8	18.6
54020 2000 GT_{99}	16.1	X	119.01593	9.31512	218.52608	5.43746	0.1128442	0.29666491	2.2265131	21	10 16.2	19.1
54021 2000 GU_{99}	15.0	X	236.39200	87.93203	227.29571	4.11996	0.1056779	0.22935808	2.6431797	21	2 23.9	19.2
54022 2000 GX_{99}	14.9	X	151.07106	35.39662	283.62948	1.60376	0.1982250	0.26397605	2.4067244	21	—	—
54023 2000 GD_{100}	15.3	X	134.88835	33.06653	341.49763	4.50690	0.0655845	0.27147799	2.3621799	21	1 10.2	18.2
54024 2000 GS_{100}	14.6	X	318.09599	63.47975	238.16144	2.82069	0.0689326	0.23844452	2.5755964	21	5 24.6	17.8
54025 2000 GU_{103}	14.8	X	329.68512	174.10658	74.85911	4.22110	0.1128433	0.23318464	2.6141836	21	3 26.4	18.0
54026 2000 GH_{104}	14.6	X	170.92028	265.01478	89.41729	4.64849	0.1094980	0.22627752	2.6671152	21	2 10.1	18.6
54027 2000 GT_{104}	15.6	X	43.96135	356.56151	136.35450	3.85491	0.1286850	0.27672680	2.3322149	21	2 5.0	17.3
54028 2000 GW_{104}	15.4	X	137.18083	71.05590	81.22798	3.59724	0.1093887	0.24410960	2.5355926	21	7 24.7	19.2
54029 2000 GB_{105}	16.1	X	105.09847	103.31672	53.89268	5.44940	0.1725365	0.24116413	2.5561965	21	7 1.4	19.8
54030 2000 GF_{105}	15.4	X	163.62876	76.49637	109.90981	3.35210	0.1065347	0.29765843	2.2215560	21	10 11.8	18.6
54031 2000 GP_{105}	16.2	X	11.96938	336.35778	228.85614	4.95917	0.0718727	0.28135570	2.3065643	21	3 25.4	18.7
54032 2000 GL_{106}	15.5	X	186.85655	250.83405	7.79269	4.91038	0.1877273	0.26071192	2.4267710	21	—	—
54033 2000 GV_{106}	16.0	X	295.99339	118.98746	64.46948	3.19288	0.1515928	0.26782665	2.3836008	21	—	—
54034 2000 GG_{107}	16.0	X	182.31567	262.66178	240.76232	2.87879	0.0968751	0.29522705	2.2337366	21	8 31.9	19.2
54035 2000 GG_{109}	15.2	X	16.63534	164.75321	53.87988	5.23072	0.1091083	0.23541913	2.5976156	21	5 1.3	17.9
54036 2000 GP_{109}	14.8	X	267.16497	333.80332	142.09307	7.02778	0.0913317	0.25580745	2.4576909	21	11 10.9	17.9
54037 2000 GE_{110}	15.1	X	120.70696	271.34277	112.40362	3.77348	0.1857114	0.27186911	2.3599138	21	1 21.3	17.9
54038 2000 GS_{110}	14.2	X	223.57052	314.72171	2.90618	8.33027	0.1512868	0.18104491	3.0946521	21	2 22.9	19.3
54039 2000 GW_{110}	15.0	X	154.85324	206.03334	220.84076	7.00786	0.0264239	0.23571576	2.5954358	21	4 13.8	18.6
54040 2000 GZ_{112}	15.8	X	342.44794	61.71778	82.47997	3.11846	0.1100348	0.27187246	2.3598944	21	—	—
54041 2000 GQ_{113}	14.7	X	230.57949	70.41648	261.02765	5.51818	0.1319641	0.27827724	2.3235442	21	3 2.1	18.3
54042 2000 GR_{113}	14.1	X	152.32943	95.62567	221.72402	12.59584	0.2183683	0.21843067	2.7306139	21	—	—
54043 2000 GC_{114}	16.2	X	134.47454	319.31101	211.63745	6.23737	0.0324645	0.29204681	2.2499234	21	8 8.4	19.1
54044 2000 GG_{114}	14.3	X	233.38915	58.04854	222.19187	12.19903	0.1664897	0.22349600	2.6891986	21	1 8.6	18.9
54045 2000 GO_{115}	15.7	X	197.32525	172.00943	138.20583	3.37249	0.1790714	0.26993859	2.3711520	21	1 8.5	19.3
54046 2000 GK_{123}	14.1	X	329.96157	95.73206	118.15359	4.58324	0.1539202	0.22808206	2.6530288	21	1 31.7	17.4
54047 2000 GM_{123}	14.1	X	189.63479	251.62557	192.01861	11.96139	0.1030979	0.23989116	2.5652314	21	6 19.8	18.2
54048 2000 GE_{125}	15.5	X	233.14660	43.16151	163.06045	10.09612	0.2448873	0.26104900	2.4246814	21	12 29.3	18.9
54049 2000 GO_{125}	14.2	X	251.10167	270.00307	150.48986	9.61347	0.0434993	0.24425869	2.5345607	21	8 6.7	17.5
54050 2000 GE_{126}	13.8	X	329.39807	49.44395	197.71889	11.20038	0.1948877	0.18288256	3.0738866	21	3 15.4	17.8
54051 2000 GL_{126}	13.8	X	115.49322	303.53282	210.52546	14.62411	0.0931274	0.23788540	2.5796306	21	6 27.5	17.7
54052 2000 GQ_{126}	14.2	X	270.16267	129.53639	205.57232	11.93811	0.2682366	0.22908840	2.6452536	21	4 9.9	18.4
54053 2000 GV_{126}	13.7	X	9.12912	119.58185	101.25324	11.09264	0.2129784	0.18497776	3.0506312	21	4 30.3	16.9
54054 2000 GK_{127}	15.1	X	313.28291	296.04538	307.00690	2.71197	0.0407729	0.23071135	2.6328336	21	3 3.2	18.6
54055 2000 GL_{133}	15.1	X	305.56614	46.27091	161.85384	5.11241	0.1538654	0.22391348	2.6858550	21	—	—
54056 2000 GT_{133}	13.6	X	26.44227	306.59592	176.05677	14.51692	0.1969165	0.17958540	3.1113966	21	1 14.9	17.2
54057 2000 GF_{134}	15.1	X	76.07536	48.09294	162.75685	8.76489	0.0930195	0.28599553	2.2815494	21	7 25.5	17.8
54058 2000 GG_{134}	14.1	X	35.55523	139.08766	143.35002	12.86749	0.1532863	0.19529851	2.9421859	21	9 10.5	17.7
54059 2000 GN_{134}	14.5	X	269.45920	258.87323	57.51094	15.67480	0.0874109	0.23464836	2.6033009	21	4 12.3	18.3
54060 2000 GR_{134}	15.4	X	80.02642	153.29589	52.82111	6.99959	0.0611069	0.28946747	2.2632692	21	7 22.2	18.1
54061 2000 GX_{134}	16.1	X	92.32626	158.58646	79.05174	5.25479	0.1357726	0.29387589	2.2405781	21	10 4.9	19.1
54062 2000 GX_{135}	15.1	X	196.49654	333.87879	186.61460	7.12352	0.1352756	0.29784535	2.2206264	21	10 9.8	18.2
54063 2000 GC_{136}	14.4	X	142.95747	128.16515	108.86740	8.45463	0.1972371	0.20649216	2.8348734	21	11 15.1	19.3
54064 2000 GF_{138}	15.6	X	156.95896	315.42784	101.86146	3.42848	0.1330348	0.28124804	2.3071529	21	4 11.8	18.9
54065 2000 GZ_{138}	14.9	X	342.15313	161.88909	140.01472	11.77076	0.1293686	0.19470769	2.9481346	21	6 29.2	18.4
54066 2000 GN_{139}	16.1	X	225.56036	23.81901	102.20837	6.31701	0.0694606	0.29865069	2.2166325	21	10 8.8	18.8
54067 2000 GR_{140}	15.5	X	58.75450	99.36084	49.85494	5.09399	0.0393988	0.27938799	2.3173816	21	3 24.0	18.1
54068 2000 GD_{142}	14.5	X	184.25658	182.91977	150.65731	13.76217	0.1742050	0.22228086	2.6989904	21	1 31.0	19.0
54069 2000 GM_{142}	14.8	X	301.41618	57.71066	89.79847	10.42554	0.0496951	0.21730055	2.7400732	21	—	—
54070 2000 GQ_{143}	15.6	X	110.59940	353.19404	108.88273	5.32227	0.0954862	0.28085726	2.3092925	21	4 12.2	18.4
54071 2000 GQ_{146}	17.3	X	341.12827	128.25355	36.34956	23.44107	0.1975498	0.64308879	1.3292972	21	—	—
54072 2000 GV_{148}	15.7	X	159.78398	5.54404	357.40588	3.60097	0.1746303	0.27593029	2.3367009	21	2 7.3	19.0
54073 2000 GG_{149}	15.3	X	143.73739	314.06578	18.72172	2.97999	0.1876207	0.26853682	2.3793965	21	—	—
54074 2000 GV_{149}	16.6	X	26.54786	43.33723	23.47557	2.55481	0.1698849	0.26889817	2.3772644	21	—	—
54075 2000 GY_{153}	14.7	X	247.53081	270.27844	325.93077	7.65289	0.1854284	0.26743100	2.3859512	21	—	—
54076 2000 GL_{154}	15.3	X	99.93452	84.61457	293.74935	5.44669	0.1295042	0.26890973	2.3771963	21	—	—
54077 2000 GA_{157}	14.9	X	263.67122	357.81434	263.61940	5.60846	0.0790361	0.27258549	2.3557773	21	1 12.6	18.2
54078 2000 GC_{157}	15.4	X	196.18408	10.35446	33.27093	3.38120	0.1092687	0.23654411	2.5893731	21	5 5.5	19.4
54079 2000 GY_{157}	16.1	X	121.78150	48.57912	119.87337	5.44068	0.0799073	0.29178998	2.2512435	21	7 26.4	18.8
54080 2000 GA_{160}	14.8	X	193.84061	35.87204	325.26752	4.93770	0.1525228	0.27686282	2.3314510	21	3 6.4	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54081 2000 GH_{162}	14.2	X	176.53944	114.04674	109.61060	25.64913	0.0582703	0.20983175	2.8047140	21	12 6.7	18.6
54082 2000 GO_{162}	15.4	X	310.69956	78.25498	52.35581	5.92561	0.0493588	0.26553592	2.3972897	21	—	—
54083 2000 GQ_{162}	15.0	X	358.18603	285.64660	102.56028	6.82090	0.1144861	0.25824499	2.4422012	21	12 8.7	17.6
54084 2000 GF_{163}	14.6	X	138.34405	176.71899	125.48020	6.64214	0.1259595	0.25974322	2.4328009	21	—	—
54085 2000 GY_{163}	13.7	X	239.86685	319.04494	65.08951	16.38784	0.1464189	0.23832798	2.5764360	21	5 24.1	17.6
54086 2000 GH_{165}	16.0	X	184.81469	187.78782	209.22790	6.42659	0.1036335	0.28221573	2.3018759	21	4 10.9	19.2
54087 2000 GO_{172}	14.7	X	5.28294	178.75143	268.28997	6.08609	0.0909071	0.26848144	2.3797237	21	—	—
54088 2000 GR_{173}	16.5	X	171.02751	162.70971	321.18507	4.63935	0.0943320	0.29219745	2.2491501	21	7 24.6	19.7
54089 2000 GA_{176}	15.3	X	72.93128	171.07667	175.26960	1.89988	0.0686122	0.21594924	2.7514921	21	—	—
54090 2000 GH_{178}	15.7	X	102.72618	315.64710	124.28202	5.79564	0.1315311	0.27867077	2.3213561	21	3 5.7	18.3
54091 2000 GD_{179}	14.2	X	307.14576	294.35910	81.05057	14.71491	0.2132862	0.24483983	2.5305485	21	8 3.4	17.1
54092 2000 GZ_{180}	15.4	X	295.68850	145.93075	138.87630	24.09883	0.1431509	0.27931742	2.3177720	21	3 18.6	18.7
54093 2000 GC_{182}	15.8	X	33.56881	29.07509	342.93767	1.99679	0.2449525	0.26206743	2.4183956	21	—	—
54094 2000 GU_{183}	13.1	X	169.81063	242.59832	81.64230	23.57867	0.0681318	0.17793113	3.1306518	21	1 6.8	17.9
54095 2000 HS_{1}	14.4	X	49.35919	350.21605	50.24262	7.21646	0.1257765	0.26136067	2.4227535	21	—	—
54096 2000 HX_{1}	14.9	X	331.74100	14.58690	191.45983	6.05617	0.1489827	0.27325492	2.3519282	21	1 12.7	17.9
54097 2000 HZ_{1}	15.1	X	65.40922	130.83021	79.89229	7.12570	0.1669921	0.23943939	2.5684571	21	7 23.2	18.3
54098 2000 HW_{3}	15.0	X	249.17912	180.45606	209.55329	11.68623	0.2112190	0.23954645	2.5676918	21	6 4.3	19.2
54099 2000 HF_{4}	16.0	X	10.27136	39.42517	55.49624	4.42661	0.1274073	0.26520616	2.3992765	21	—	—
54100 2000 HL_{5}	14.6	X	59.78201	167.09017	45.08146	15.36315	0.1398219	0.23891003	2.5722497	21	7 12.7	18.0
54101 2000 HM_{5}	15.5	X	23.53733	44.45476	59.48161	7.57461	0.1738659	0.26771963	2.3842360	21	—	—
54102 2000 HN_{5}	14.3	X	186.68470	227.66563	77.29385	1.99546	0.1323954	0.17045818	3.2214952	21	1 6.9	19.3
54103 2000 HX_{6}	15.7	X	353.31391	203.27841	220.82261	1.98675	0.1810789	0.25826557	2.4420715	21	—	—
54104 2000 HN_{7}	15.5	X	97.01736	94.66697	84.22255	2.00721	0.1103223	0.24173880	2.5521438	21	7 12.4	18.9
54105 2000 HZ_{7}	15.7	X	56.19034	258.08347	203.81072	4.19604	0.0988810	0.27301917	2.3532819	21	1 12.2	18.1
54106 2000 HX_{8}	14.9	X	123.47791	20.01183	52.84111	7.52415	0.0793271	0.27733544	2.3288015	21	3 19.0	17.8
54107 2000 HM_{9}	15.1	X	79.86133	179.88743	158.32645	1.64174	0.0865574	0.21042185	2.7994679	21	—	—
54108 2000 HU_{9}	14.0	X	225.52583	219.78600	48.38785	23.70669	0.1434967	0.17291690	3.1908845	21	—	—
54109 2000 HD_{10}	13.9	X	205.21518	212.92615	108.73434	2.44076	0.1845282	0.17554150	3.1589992	21	2 10.8	19.2
54110 2000 HA_{11}	15.1	X	38.40511	260.73853	87.09454	3.02715	0.0421992	0.20705977	2.8296903	21	11 22.6	18.7
54111 2000 HP_{11}	15.9	X	346.19669	6.37584	129.09971	3.29537	0.1788907	0.26837956	2.3803259	21	—	—
54112 2000 HB_{12}	14.9	X	6.71305	33.31425	225.65458	9.73453	0.0635587	0.19148865	2.9810827	21	6 12.8	18.8
54113 2000 HP_{12}	15.7	X	186.40394	46.93235	229.19792	6.63118	0.1072495	0.26239043	2.4164105	21	—	—
54114 2000 HZ_{12}	14.5	X	157.94019	333.19297	317.88522	6.31075	0.0574453	0.21413938	2.7669737	21	—	—
54115 2000 HX_{15}	15.9	X	199.70467	11.43080	41.02635	7.16641	0.1021925	0.28509959	2.2863269	21	5 17.7	19.0
54116 2000 HT_{16}	15.3	X	136.06106	253.78288	74.06947	2.41210	0.0517302	0.21818295	2.7326804	21	—	—
54117 2000 HB_{20}	14.2	X	20.95170	241.30918	159.28031	8.26941	0.1292538	0.21032110	2.8003619	21	—	—
54118 2000 HK_{21}	15.1	X	302.94715	152.27810	164.91984	4.58341	0.1621508	0.23555173	2.5966406	21	5 10.4	18.3
54119 2000 HW_{21}	15.9	X	346.79369	285.60608	225.71132	5.03541	0.0703635	0.26932184	2.3747706	21	—	—
54120 2000 HM_{24}	16.8	X	63.43833	238.53818	300.16311	0.74366	0.1522681	0.28332409	2.2958687	21	5 28.2	18.8
54121 2000 HP_{24}	15.0	X	257.11644	31.32488	26.73741	4.71179	0.0715825	0.24472690	2.5313269	21	8 10.1	18.3
54122 2000 HO_{26}	15.8	X	83.23857	333.34500	145.55512	3.28309	0.1778476	0.27994168	2.3143250	21	4 7.6	18.0
54123 2000 HZ_{26}	13.8	X	277.78798	31.09332	160.10664	10.88844	0.0967546	0.17272134	3.1932926	21	—	—
54124 2000 HK_{27}	14.6	X	223.65455	177.25492	118.14174	6.13220	0.1111815	0.17624459	3.1505921	21	1 28.4	19.4
54125 2000 HL_{27}	16.1	X	304.59760	104.43602	152.91751	3.76284	0.1884784	0.27527934	2.3403832	21	2 10.0	19.2
54126 2000 HK_{29}	15.6	X	102.96131	104.34388	354.87093	4.84487	0.1114502	0.27966691	2.3158406	21	3 27.2	18.1
54127 2000 HN_{29}	14.2	X	325.91955	62.57412	252.31736	11.18710	0.1827153	0.23850083	2.5751911	21	6 9.5	16.7
54128 2000 HW_{30}	14.6	X	179.04587	1.03254	137.01453	13.53903	0.1050400	0.24642268	2.5197006	21	8 20.2	18.3
54129 2000 HY_{30}	14.4	X	236.09213	176.32088	111.41212	15.34612	0.0570191	0.22459760	2.6803982	21	1 26.4	18.2
54130 2000 HE_{31}	13.8	X	272.61065	168.34978	91.83751	17.07625	0.1943215	0.22614644	2.6681457	21	1 20.3	18.1
54131 2000 HM_{31}	15.9	X	31.44085	23.02109	31.81847	6.76279	0.0848118	0.26373781	2.4081736	21	—	—
54132 2000 HB_{32}	15.2	X	213.49628	275.70767	52.00822	3.35933	0.1068660	0.22583853	2.6705704	21	2 20.2	19.3
54133 2000 HU_{32}	13.6	X	248.10607	122.27983	97.06986	24.29872	0.1239447	0.17157423	3.2075100	21	—	—
54134 2000 HK_{34}	14.8	X	83.88734	44.98979	13.54312	10.01612	0.1553489	0.27076553	2.3663218	21	1 8.3	17.3
54135 2000 HU_{34}	15.9	X	8.22796	102.13098	78.25609	7.65175	0.0579030	0.27562557	2.3384228	21	2 18.9	18.6
54136 2000 HG_{35}	16.2	X	63.37634	139.95367	98.09107	5.87903	0.0707375	0.29054256	2.2576826	21	8 15.7	18.7
54137 2000 HA_{36}	14.5	X	328.79908	133.22254	174.81819	14.24918	0.1890070	0.23756662	2.5819378	21	6 5.7	17.5
54138 2000 HC_{36}	14.4	X	297.69494	94.54079	94.80092	11.05362	0.0961266	0.22166115	2.7040185	21	—	—
54139 2000 HZ_{36}	13.7	X	195.43148	320.11134	109.81752	15.46682	0.0804397	0.23874746	2.5734172	21	6 10.7	17.6
54140 2000 HB_{37}	13.9	X	222.03574	234.79472	127.21066	15.87017	0.1301209	0.23108071	2.6300273	21	4 15.9	18.3
54141 2000 HF_{37}	15.0	X	155.93582	314.04724	154.82739	15.64655	0.0789549	0.23873884	2.5734792	21	6 16.9	19.0
54142 2000 HL_{39}	15.1	X	270.82909	191.16362	76.47802	7.45765	0.1056140	0.27190348	2.3597149	21	1 28.8	18.4
54143 2000 HO_{39}	15.1	X	255.18028	343.04193	70.78519	14.38370	0.1406231	0.24286922	2.5442185	21	7 22.3	18.8
54144 2000 HG_{40}	14.9	X	77.86336	4.47389	65.05852	6.45791	0.2509939	0.22687620	2.6624211	21	2 10.8	17.7
54145 2000 HN_{40}	15.0	X	182.13546	296.28456	109.67012	13.80270	0.1552841	0.23289002	2.6163879	21	5 1.8	19.4
54146 2000 HY_{40}	14.6	X	233.59150	334.93723	10.97000	8.28195	0.1860613	0.23218077	2.6217134	21	3 28.6	18.7
54147 2000 HN_{41}	14.9	X	106.54916	346.11644	172.09487	13.54664	0.0919679	0.23831948	2.5764973	21	6 23.6	18.7
54148 2000 HS_{41}	13.7	X	347.28688	156.19383	116.90894	13.87862	0.0150091	0.23590125	2.5940752	21	6 5.5	17.2
54149 2000 HU_{42}	16.0	X	69.01299	162.73672	51.50087	7.51423	0.0718145	0.28775945	2.2722162	21	7 19.3	18.6
54150 2000 HF_{43}	15.5	X	255.07773	266.59605	77.14095	3.19298	0.0221074	0.23489719	2.6014621	21	5 2.9	19.0
54151 2000 HO_{45}	15.1	X	159.08948	305.78319	56.65618	7.52983	0.1513686	0.27158085	2.3615834	21	2 6.0	18.6
54152 2000 HX_{45}	15.0	X	7.38264	73.60981	55.88656	7.08281	0.0488282	0.26995744	2.3710416	21	—	—
54153 2000 HN_{46}	16.0	X	353.69130	287.72962	229.27864	5.72080	0.0702089	0.27117247	2.3639538	21	—	—
54154 2000 HQ_{46}	15.9	X	167.69812	216.48801	58.97645	2.14803	0.1038717	0.26034256	2.4290658	21	—	—
54155 2000 HR_{46}	14.6	X	289.18662	74.07775	216.52492	8.31069	0.1072328	0.18456831	3.0551413	21	3 28.8	18.9
54156 2000 HK_{47}	15.2	X	292.51996	335.53947	49.10381	7.26786	0.1777011	0.29051037	2.2578493	21	7 29.9	17.6
54157 2000 HG_{48}	15.1	X	274.96733	79.29894	51.82756	3.47457	0.1274108	0.25840338	2.4412031	21	12 6.5	17.7
54158 2000 HY_{48}	16.5	X	333.74969	108.24289	66.14139	2.23924	0.1250507	0.27073057	2.3665255	21	—	—
54159 2000 HJ_{49}	15.6	X	315.09639	68.48457	63.34063	3.24730	0.1607492	0.26394325	2.4069238	21	—	—
54160 2000 HH_{51}	15.0	X	154.25059	248.69852	95.63530	3.07135	0.0896059	0.21990534	2.7183927	21	1 8.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54161 2000 HO_{51}	15.8	X	70.87323	156.78731	59.18525	4.58447	0.0968559	0.28713746	2.2754964	21	7 28.9	18.4
54162 2000 HF_{53}	15.5	X	301.63863	19.23275	171.49724	1.19102	0.1274414	0.26776541	2.3839642	21	—	—
54163 2000 HE_{54}	14.4	X	137.33539	293.42677	58.23094	11.45501	0.1298302	0.21730579	2.7400292	21	1 4.6	18.4
54164 2000 HH_{54}	15.3	X	315.30825	135.23319	69.01132	3.13376	0.1632191	0.27083302	2.3659286	21	—	—
54165 2000 HO_{54}	15.8	X	310.73453	346.82705	178.66753	2.50289	0.1237417	0.26588782	2.3951741	21	—	—
54166 2000 HV_{54}	15.4	X	95.56257	88.84691	214.29028	2.84655	0.0591879	0.25330275	2.4738657	21	12 16.9	18.8
54167 2000 HZ_{54}	14.7	X	128.33204	184.21003	226.94554	11.54670	0.1851436	0.22608374	2.6686390	21	3 9.6	18.8
54168 2000 HX_{56}	15.6	X	318.23941	28.11806	81.17200	6.13392	0.0809018	0.26091839	2.4254906	21	—	—
54169 2000 HF_{57}	15.3	X	354.85534	112.40429	83.52661	8.07971	0.0513963	0.27545076	2.3394121	21	2 21.1	18.1
54170 2000 HK_{57}	15.7	X	10.58322	325.27483	169.81031	2.93217	0.1705104	0.27188523	2.3598205	21	—	—
54171 2000 HP_{57}	15.2	X	163.87342	295.17048	56.30585	9.45454	0.0572402	0.26978644	2.3720434	21	1 16.7	18.4
54172 2000 HF_{58}	15.7	X	183.26678	355.09499	45.44288	4.46472	0.0777679	0.23246719	2.6195595	21	4 18.5	19.4
54173 2000 HS_{58}	14.6	X	181.03334	71.95767	244.59966	5.56174	0.1429612	0.26646228	2.3917304	21	—	—
54174 2000 HD_{59}	14.8	X	52.87545	17.15265	19.97131	13.45378	0.1727433	0.21623708	2.7490498	21	—	—
54175 2000 HB_{60}	16.0	X	354.13735	10.76983	40.18840	1.71715	0.1730591	0.25736668	2.4477544	21	—	—
54176 2000 HO_{61}	15.5	X	27.59788	54.74725	71.26661	5.11256	0.1417737	0.27274117	2.3548807	21	—	—
54177 2000 HX_{61}	15.1	X	150.96229	117.39635	18.43939	1.85258	0.0127044	0.19469470	2.9482658	21	7 11.3	19.2
54178 2000 HY_{61}	15.9	X	11.36860	103.82199	31.69018	3.02832	0.1073796	0.27113735	2.3641579	21	—	—
54179 2000 HO_{62}	15.4	X	113.26642	106.55396	115.16164	3.44626	0.0856829	0.24649713	2.5191932	21	9 26.7	18.9
54180 2000 HT_{63}	15.3	X	44.96796	171.69146	223.58145	1.18661	0.0506762	0.21552039	2.7551408	21	—	—
54181 2000 HR_{65}	14.5	X	185.57010	348.60481	59.51695	14.61948	0.0652726	0.23376787	2.6098337	21	5 2.6	18.3
54182 2000 HA_{66}	14.6	X	239.61864	127.85951	169.31018	1.23308	0.1244846	0.17718774	3.1394020	21	2 13.1	19.6
54183 2000 HN_{66}	14.7	X	204.68902	300.83903	50.64496	14.92034	0.0804364	0.22683692	2.6627285	21	3 18.8	18.9
54184 2000 HJ_{67}	16.2	X	4.04265	253.08419	207.09672	0.92166	0.1491164	0.26648055	2.3916211	21	—	—
54185 2000 HC_{68}	16.1	X	286.20793	307.32730	194.46110	3.40572	0.1676225	0.26214958	2.4178904	21	—	—
54186 2000 HG_{68}	15.3	X	221.26256	144.09562	100.06637	6.29954	0.0228015	0.21750015	2.7383965	21	—	—
54187 2000 HR_{74}	14.8	X	309.94027	248.73627	77.93576	1.61458	0.1441700	0.19232328	2.9724517	21	6 7.1	18.4
54188 2000 HB_{75}	15.2	X	345.24901	210.30185	127.84118	3.48641	0.0415681	0.24556301	2.5255778	21	8 31.6	18.2
54189 2000 HQ_{75}	14.9	X	300.31503	166.09894	131.00718	3.13327	0.0877386	0.18681556	3.0305912	21	4 25.8	19.1
54190 2000 HT_{75}	14.9	X	66.57626	151.39269	167.26600	4.93583	0.1045015	0.25216755	2.4812846	21	12 8.4	18.3
54191 2000 HE_{76}	15.4	X	292.48121	148.37367	95.04198	4.18449	0.0453583	0.22607812	2.6686833	21	2 7.1	18.9
54192 2000 HH_{76}	15.8	X	348.77492	16.18358	200.10596	6.53011	0.0627325	0.27672843	2.3322058	21	3 5.3	18.6
54193 2000 HN_{76}	14.0	X	154.20089	228.55514	195.81621	13.35351	0.1712915	0.23278812	2.6171514	21	4 24.5	18.2
54194 2000 HV_{76}	16.1	X	69.30909	1.36614	206.56089	9.06211	0.1381143	0.28636470	2.2795882	21	7 17.6	18.9
54195 2000 HW_{77}	15.8	X	8.80533	300.66188	257.42216	6.07178	0.0598735	0.27917366	2.3185676	21	3 9.0	18.4
54196 2000 HH_{78}	14.7	X	76.63553	65.72433	272.52667	6.71411	0.1681165	0.25722688	2.4486412	21	—	—
54197 2000 HM_{78}	15.3	X	239.20105	170.71519	295.03624	4.58741	0.0946285	0.29738448	2.2229201	21	9 17.9	18.1
54198 2000 HJ_{79}	14.2	X	121.22437	6.97945	307.02316	5.02513	0.0962088	0.21330565	2.7741790	21	—	—
54199 2000 HP_{79}	15.0	X	335.03586	83.67311	101.87778	13.76925	0.0589684	0.27290598	2.3539326	21	1 4.9	17.9
54200 2000 HK_{80}	15.1	X	279.36698	129.88119	100.69110	12.45962	0.0126940	0.22361534	2.6882418	21	1 9.7	18.7
54201 2000 HO_{80}	14.5	X	187.45748	253.78102	132.95762	14.08225	0.1721509	0.23065763	2.6332424	21	4 12.8	19.0
54202 2000 HQ_{80}	14.8	X	204.02442	337.07925	96.51452	15.29550	0.0600094	0.24020731	2.5629801	21	6 24.4	18.5
54203 2000 HR_{80}	14.9	X	67.00282	296.30456	114.75772	10.95034	0.0098427	0.21942227	2.7223811	21	—	—
54204 2000 HX_{80}	14.1	X	156.14265	194.25428	164.22284	15.20195	0.2077489	0.22216028	2.6999669	21	2 6.4	18.5
54205 2000 HY_{82}	15.0	X	94.38376	312.04633	53.10331	9.62557	0.1928626	0.21484851	2.7608818	21	—	—
54206 2000 HM_{83}	13.8	X	138.89456	186.17330	95.93343	18.56179	0.1587124	0.21399676	2.7682029	21	12 31.8	18.4
54207 2000 HY_{83}	14.1	X	10.40934	189.02864	94.14504	15.21513	0.1492856	0.24303512	2.5430605	21	7 29.9	16.7
54208 2000 HX_{85}	15.3	X	278.63647	36.32245	143.63864	5.89646	0.0562230	0.21709482	2.7418040	21	—	—
54209 2000 HD_{86}	15.1	X	4.87247	53.49887	154.46854	5.33804	0.0894420	0.27786663	2.3258326	21	3 19.8	17.3
54210 2000 HV_{87}	14.3	X	242.80510	261.78410	57.13108	13.30346	0.1572729	0.18157336	3.0886448	21	3 17.8	19.4
54211 2000 HW_{88}	15.8	X	21.97167	150.55736	8.41361	2.69931	0.0159497	0.22849330	2.6498446	21	2 18.9	19.2
54212 2000 HJ_{89}	16.4	X	279.62334	350.61238	223.79331	4.26267	0.0539297	0.26786301	2.3833851	21	—	—
54213 2000 HZ_{89}	15.1	X	87.10440	155.69173	27.19951	2.32435	0.1108667	0.19208197	2.9749407	21	7 4.9	19.3
54214 2000 HP_{92}	15.6	X	325.91910	224.98964	222.12714	3.12499	0.0620138	0.21242445	2.7818457	21	12 21.2	19.1
54215 2000 HR_{95}	15.3	X	84.28040	134.12753	329.50895	7.19891	0.0525698	0.27604019	2.3360807	21	2 25.0	17.7
54216 2000 HQ_{96}	14.5	X	143.74073	165.13576	8.01031	7.44646	0.0263596	0.29102153	2.2552047	21	8 29.3	17.2
54217 2000 HW_{96}	15.0	X	45.48782	261.86014	121.58755	7.63630	0.0710373	0.21143402	2.7905264	21	—	—
54218 2000 HC_{97}	13.9	X	148.40424	251.30796	75.30477	6.71498	0.0746925	0.17218615	3.1999061	21	—	—
54219 2000 HC_{99}	15.0	X	100.04510	328.60628	349.16747	3.85454	0.1001023	0.21042374	2.7994511	21	—	—
54220 2000 HJ_{100}	15.0	X	113.63345	295.30084	71.98066	7.49315	0.1273279	0.21851667	2.7298975	21	—	—
54221 2000 HN_{100}	15.0	X	5.18621	333.22954	74.81840	7.53684	0.1291646	0.25825741	2.4421230	21	—	—
54222 2000 JF	13.7	X	284.82915	247.28537	102.20625	11.53641	0.1120362	0.19171009	2.9787867	21	6 8.1	17.8
54223 2000 JU	14.4	X	153.76008	276.70441	77.50819	13.62107	0.1929128	0.22186383	2.7023714	21	2 2.4	18.8
54224 2000 JM_{6}	14.3	X	68.08525	276.58536	94.76050	13.51860	0.1037766	0.21381815	2.7697443	21	—	—
54225 2000 JU_{7}	15.4	X	173.47711	1.17076	39.66840	2.01495	0.0791099	0.23212251	2.6221521	21	4 7.9	19.1
54226 2000 JA_{10}	13.9	X	100.64393	273.48826	88.53639	14.55402	0.1540380	0.25932334	2.4354262	21	—	—
54227 2000 JE_{11}	15.0	X	209.29615	9.29123	46.93647	10.43798	0.0450612	0.19222690	2.9734452	21	6 8.3	19.4
54228 2000 JA_{12}	15.2	X	124.58951	157.42784	225.85781	6.16886	0.1250707	0.27070569	2.3666705	21	1 14.9	18.2
54229 2000 JA_{13}	14.5	X	241.99431	326.17621	53.33967	13.42516	0.1912145	0.23650493	2.5896590	21	5 16.0	18.4
54230 2000 JO_{13}	16.5	X	24.36565	111.97888	78.13241	3.26386	0.1539153	0.27911953	2.3188673	21	3 27.5	18.2
54231 2000 JO_{14}	15.9	X	329.45838	349.79280	163.94415	2.19296	0.1494126	0.26778533	2.3838460	21	—	—
54232 2000 JL_{15}	14.9	X	90.16568	40.36742	173.75931	2.12736	0.0252367	0.19489290	2.9462666	21	8 5.4	18.9
54233 2000 JZ_{15}	14.6	X	325.79490	118.40144	190.45789	9.92233	0.0976689	0.19241679	2.9714887	21	6 14.4	18.5
54234 2000 JD_{16}	15.5	X	173.33159	181.61974	234.85213	19.39883	0.0897540	0.37109835	1.9178297	21	4 11.8	18.0
54235 2000 JO_{16}	15.3	X	30.84003	58.02892	170.65930	4.29821	0.0355952	0.23787747	2.5796880	21	6 5.4	18.4
54236 2000 JH_{17}	15.6	X	13.81907	170.67296	72.20566	10.56580	0.1373168	0.28279864	2.2987117	21	5 29.0	17.3
54237 Hiroshimanabe	14.4	X	282.02941	114.43808	134.71456	10.47809	0.1867669	0.17602748	3.1531822	21	1 23.5	19.3
54238 2000 JD_{19}	13.6	X	243.61160	197.22454	147.54063	19.79059	0.0810915	0.18452115	3.0556618	21	4 23.5	18.5
54239 2000 JF_{19}	14.9	X	82.76227	83.53407	106.20020	23.37212	0.2119486	0.28596419	2.2817162	21	7 25.2	17.9
54240 2000 JR_{19}	13.2	X	152.56766	171.17979	182.30285	28.30266	0.1567894	0.17236873	3.1976461	21	1 29.5	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54241 2000 JY_{19}	14.9	X	147.81736	104.02058	335.27368	6.27878	0.1377462	0.28304401	2.2973830	21	4 26.9	18.2
54242 2000 JC_{20}	15.8	X	162.58484	298.89425	301.91968	3.85138	0.1435906	0.30304560	2.1951493	21	12 17.9	19.0
54243 2000 JG_{20}	15.3	X	260.58104	320.65494	233.49178	11.20215	0.1078503	0.26439657	2.4041718	21	—	—
54244 2000 JR_{20}	15.8	X	337.67171	196.04119	323.52626	4.99585	0.1613671	0.27107361	2.3645285	21	—	—
54245 2000 JE_{21}	14.2	X	92.07610	165.71796	257.02175	6.44755	0.0922058	0.22511475	2.6762915	21	1 26.9	17.6
54246 2000 JF_{21}	15.5	X	106.69932	16.92822	275.85386	3.90915	0.1700293	0.25378754	2.4707142	21	12 23.0	19.2
54247 2000 JN_{24}	14.7	X	137.48822	324.01953	340.24797	6.60344	0.0727717	0.21390925	2.7689578	21	—	—
54248 2000 JH_{25}	15.6	X	305.64596	270.46996	331.57991	6.33967	0.0874877	0.27478232	2.3432045	21	2 6.5	18.4
54249 2000 JV_{25}	15.6	X	254.87412	78.39219	36.40989	6.76796	0.0990845	0.25323352	2.4743165	21	10 19.3	18.7
54250 2000 JC_{26}	15.3	X	75.27943	159.20001	275.95756	6.20957	0.0797085	0.27080367	2.3660996	21	1 6.5	17.6
54251 2000 JO_{26}	15.1	X	329.61265	176.52055	345.51704	6.09506	0.0805985	0.26843286	2.3800108	21	—	—
54252 2000 JV_{26}	14.3	X	37.15508	345.38865	241.79021	9.96810	0.1627436	0.19121862	2.9838885	21	6 26.7	17.8
54253 2000 JP_{27}	13.7	X	87.85125	28.65393	315.76328	3.02158	0.2045567	0.21035842	2.8000307	21	—	—
54254 2000 JQ_{27}	15.8	X	130.87819	96.47446	5.86955	3.78104	0.0901266	0.28180252	2.3041255	21	5 4.7	18.9
54255 2000 JL_{28}	15.3	X	230.98488	310.63650	301.77915	2.86008	0.0822341	0.26552412	2.3973608	21	—	—
54256 2000 JC_{30}	14.2	X	119.22417	324.13043	352.64394	6.22863	0.0625541	0.21230983	2.7828469	21	—	—
54257 2000 JK_{30}	14.8	X	29.55368	157.33800	242.87065	5.62203	0.1058950	0.25858340	2.4400700	21	—	—
54258 2000 JV_{30}	15.5	X	34.20457	291.03152	247.30010	12.54665	0.2329708	0.23341547	2.6124598	21	4 7.2	17.8
54259 2000 JC_{32}	15.1	X	50.25097	318.83195	338.90141	3.61104	0.1317423	0.24626783	2.5207567	21	10 22.4	18.4
54260 2000 JF_{32}	16.0	X	348.11012	324.69229	250.70225	5.86453	0.1904022	0.27655023	2.3332075	21	2 10.7	18.5
54261 2000 JV_{32}	14.8	X	149.83118	247.12633	43.00865	1.47229	0.0850270	0.25879338	2.4387500	21	—	—
54262 2000 JX_{32}	15.6	X	355.73752	337.41118	233.41643	3.87913	0.1033046	0.27662972	2.3327605	21	3 3.4	18.1
54263 2000 JD_{33}	15.3	X	69.68295	259.83271	276.64392	3.26358	0.1830082	0.23685193	2.5871291	21	6 12.3	18.4
54264 2000 JN_{33}	15.6	X	327.76413	163.66106	3.66997	2.45032	0.1499703	0.26862566	2.3788719	21	—	—
54265 2000 JS_{33}	15.8	X	17.26103	284.17161	272.26549	6.30014	0.0490585	0.27841465	2.3227795	21	3 20.8	18.5
54266 2000 JC_{34}	15.9	X	68.25549	92.30487	35.79897	6.32199	0.0932866	0.27640875	2.3340036	21	3 15.3	18.4
54267 2000 JD_{35}	15.6	X	40.03142	337.49006	227.21398	6.25780	0.0655221	0.28205849	2.3027313	21	5 14.8	18.0
54268 2000 JR_{35}	14.7	X	181.22646	108.31727	237.73370	3.95589	0.1388722	0.17681548	3.1438068	21	2 15.4	19.7
54269 2000 JZ_{36}	15.2	X	39.07468	5.06081	300.13043	2.30021	0.1089860	0.24514768	2.5284295	21	10 13.1	18.1
54270 2000 JC_{39}	14.2	X	272.37103	321.25724	271.13760	2.31507	0.1277313	0.17378974	3.1801916	21	1 1.5	19.0
54271 2000 JD_{39}	15.1	X	105.70000	119.36625	55.25194	7.64721	0.0460372	0.28532581	2.2851183	21	7 9.3	17.9
54272 2000 JT_{40}	15.1	X	57.42539	111.51277	162.84921	2.20048	0.0392689	0.19975373	2.8982741	21	9 13.1	18.8
54273 2000 JC_{41}	15.7	X	255.23807	15.99125	172.23849	1.41169	0.1338947	0.26099217	2.4250334	21	—	—
54274 2000 JK_{42}	15.8	X	43.10639	266.09032	40.11014	3.83703	0.1511368	0.24622355	2.5210589	21	10 28.6	18.8
54275 2000 JF_{43}	15.8	X	28.28235	44.45675	74.57254	3.25949	0.1608886	0.27154051	2.3618173	21	—	—
54276 2000 JG_{45}	14.4	X	73.87574	339.25814	59.33876	9.57934	0.1382441	0.21655579	2.7463519	21	—	—
54277 2000 JD_{46}	14.8	X	304.27858	327.80544	59.53271	16.36715	0.1171526	0.24404702	2.5360260	21	9 7.8	18.1
54278 2000 JZ_{46}	15.0	X	32.88140	287.31740	278.11613	7.57056	0.1548381	0.23557823	2.5964459	21	5 13.0	17.7
54279 2000 JC_{47}	15.7	X	324.72337	150.31251	357.79537	6.35173	0.0842355	0.26612045	2.3937781	21	—	—
54280 2000 JF_{47}	13.9	X	355.65612	46.49761	277.63525	11.24887	0.0974235	0.19723437	2.9229025	21	8 18.9	17.6
54281 2000 JP_{47}	14.7	X	172.72576	272.78236	339.33256	6.12983	0.1109699	0.25798865	2.4438187	21	—	—
54282 2000 JX_{47}	15.6	X	288.07445	228.69315	328.31285	6.20506	0.1083750	0.26693141	2.3889273	21	—	—
54283 2000 JG_{48}	14.3	X	245.84482	0.48519	272.89724	10.02141	0.0416647	0.26995868	2.3710344	21	1 9.9	17.4
54284 2000 JM_{50}	14.6	X	110.00030	43.84868	258.20315	11.98999	0.0693954	0.20878898	2.8140448	21	12 23.7	18.7
54285 2000 JR_{50}	15.2	X	214.20785	225.82559	44.57426	3.55344	0.0509895	0.21862279	2.7290140	21	—	—
54286 2000 JD_{51}	13.9	X	295.73020	201.28448	27.19968	10.85787	0.1722977	0.17702921	3.1412760	21	1 17.7	18.7
54287 2000 JE_{51}	14.3	X	173.82926	18.75258	265.83943	12.32803	0.1583660	0.21373946	2.7704240	21	—	—
54288 Daikikawasaki	14.2	X	312.39772	84.22117	218.91031	11.93358	0.1891790	0.23249848	2.6193245	21	4 29.3	17.2
54289 2000 JE_{56}	15.1	X	105.77193	348.76246	110.00712	5.47368	0.1562647	0.27727046	2.3291653	21	4 11.1	17.9
54290 2000 JM_{56}	15.2	X	126.45677	40.70926	73.89507	7.50317	0.1285854	0.28172861	2.3045285	21	5 23.1	18.3
54291 2000 JD_{57}	14.5	X	306.01762	202.68501	68.88673	15.82870	0.0457067	0.22969354	2.6406055	21	4 8.9	18.3
54292 2000 JT_{58}	14.6	X	231.74312	285.56671	192.86419	6.87224	0.0609223	0.29339839	2.2430084	21	10 3.0	17.0
54293 2000 JB_{59}	13.1	X	313.69849	232.97588	79.75010	11.24267	0.0945550	0.18795129	3.0183702	21	6 1.9	17.0
54294 2000 JC_{59}	14.6	X	6.83138	34.93226	230.41764	12.11800	0.1085955	0.23585454	2.5944176	21	6 20.4	17.5
54295 2000 JO_{59}	15.1	X	12.96682	239.31900	255.03873	10.63853	0.0772755	0.27159799	2.3614840	21	—	—
54296 2000 JN_{60}	15.2	X	19.61152	95.81746	8.46288	4.16255	0.1812783	0.26823207	2.3811984	21	—	—
54297 2000 JA_{61}	14.9	X	53.09256	323.83565	0.36801	1.55832	0.0218936	0.20496344	2.8489519	21	11 7.7	18.8
54298 2000 JE_{62}	14.9	X	19.12154	337.88909	236.91503	11.28363	0.1428504	0.27924140	2.3181926	21	4 21.4	16.9
54299 2000 JV_{62}	15.0	X	113.33570	133.72997	293.92634	6.13090	0.0882785	0.27501783	2.3418666	21	2 21.3	17.9
54300 2000 JZ_{63}	16.0	X	325.92973	88.01403	51.89011	2.80660	0.1597191	0.26586378	2.3953185	21	—	—
54301 2000 JG_{64}	14.8	X	101.25811	126.52891	72.45971	6.45294	0.1195650	0.24168905	2.5524940	21	8 17.9	18.4
54302 2000 JA_{66}	14.9	X	318.04691	192.95869	127.31293	10.96726	0.0693948	0.23764143	2.5813959	21	6 20.9	18.1
54303 2000 JD_{66}	14.3	X	264.46905	276.49544	110.02889	13.06357	0.0983449	0.23950802	2.5679664	21	7 1.1	17.8
54304 2000 JE_{66}	14.7	X	9.56448	77.61877	93.46726	14.36074	0.1125238	0.22746223	2.6578463	21	2 15.1	17.9
54305 2000 JB_{69}	14.9	X	286.58928	212.00359	84.56520	9.56162	0.0574530	0.23794903	2.5791707	21	4 10.0	18.5
54306 2000 JC_{70}	13.9	X	13.10436	120.28684	110.70695	29.12621	0.2034561	0.23434652	2.6055358	21	5 26.5	16.9
54307 2000 JT_{71}	15.6	X	25.30278	25.65138	80.61042	4.70825	0.2033096	0.27141495	2.3625457	21	—	—
54308 2000 JF_{73}	14.6	X	6.70985	330.02023	116.12792	10.37383	0.1275610	0.21513219	2.7584543	21	—	—
54309 2000 JN_{73}	15.0	X	348.37965	263.56124	132.96811	12.84612	0.0562309	0.25190522	2.4830070	21	11 29.9	18.2
54310 2000 JO_{73}	14.5	X	73.28813	354.25566	164.13219	15.52447	0.0483198	0.23232489	2.6206290	21	5 6.5	18.1
54311 2000 JR_{73}	13.7	X	163.91727	181.96225	160.08235	14.49680	0.0495909	0.17354798	3.1831444	21	1 20.1	18.5
54312 2000 JZ_{73}	15.2	X	134.04094	72.26956	124.29529	3.66487	0.0688952	0.24595066	2.5229233	21	9 16.1	18.7
54313 2000 JL_{75}	16.4	X	281.56935	97.20250	29.82657	1.51132	0.1485593	0.25928370	2.4356745	21	12 9.4	18.9
54314 2000 JS_{75}	16.1	X	102.33748	41.31904	130.17210	5.39460	0.1286980	0.28604090	2.2813082	21	7 11.5	19.0
54315 2000 JU_{75}	15.5	X	80.47162	98.92289	136.56460	5.87027	0.1179608	0.28972141	2.2619465	21	9 13.2	18.3
54316 2000 JV_{75}	14.1	X	222.29246	118.38628	241.17148	13.05679	0.1943811	0.23222823	2.6213562	21	3 30.7	18.7
54317 2000 JD_{76}	14.7	X	163.77008	6.92550	63.65251	15.49351	0.0806669	0.23330727	2.6132675	21	5 7.7	18.5
54318 2000 JF_{76}	15.0	X	338.57940	45.98912	138.20981	4.59567	0.1498873	0.22522803	2.6753940	21	1 6.1	18.2
54319 2000 JG_{76}	14.9	X	30.42966	21.69704	213.24919	10.21713	0.0867673	0.23661087	2.5888860	21	6 17.0	18.0
54320 2000 JL_{80}	14.5	X	134.44139	251.85149	152.16099	0.64117	0.1926914	0.17975146	3.1094799	21	3 17.5	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54321 2000 JA_{81}	14.4	X	63.27623	91.37171	91.28739	6.76859	0.2503732	0.23678109	2.5876450	21	6 22.8	17.4
54322 2000 JZ_{83}	15.0	X	301.73074	154.98298	177.86353	6.31477	0.1407908	0.23726298	2.5841402	21	6 2.5	18.3
54323 2000 JQ_{86}	14.0	X	63.93798	303.59141	115.54297	22.60650	0.0574137	0.22337581	2.6901632	21	—	—
54324 2000 KO_{3}	15.6	X	95.02688	22.44739	102.22350	7.42947	0.0641737	0.27854761	2.3220404	21	4 18.2	18.4
54325 2000 KP_{3}	14.1	X	165.43493	171.76536	154.48522	5.47807	0.1192390	0.17042469	3.2219172	21	1 10.3	19.1
54326 2000 KY_{3}	15.1	X	37.23142	327.91130	80.86528	7.50341	0.1140286	0.25961822	2.4335818	21	—	—
54327 2000 KB_{4}	14.7	X	101.56208	107.69555	120.65669	5.64728	0.1835749	0.24259253	2.5461526	21	10 2.4	18.7
54328 2000 KO_{5}	15.0	X	323.26502	168.34912	73.81943	24.48157	0.1537039	0.27444783	2.3451080	21	3 5.1	18.5
54329 2000 KD_{6}	14.1	X	138.80027	164.21485	186.45184	5.61972	0.1057437	0.17036151	3.2227137	21	1 10.0	18.9
54330 2000 KH_{7}	13.9	X	317.96299	202.55121	85.16054	12.92333	0.0862935	0.18601347	3.0392968	21	5 10.7	18.0
54331 2000 KS_{7}	15.1	X	254.80611	316.82134	229.58374	5.57480	0.0536832	0.21263464	2.7800122	21	—	—
54332 2000 KQ_{9}	16.6	X	351.43109	280.69230	250.78882	1.77354	0.1176204	0.27233292	2.3572336	21	—	—
54333 2000 KJ_{10}	15.1	X	142.43169	306.78584	58.77174	6.97401	0.0606627	0.22147402	2.7055414	21	1 18.7	18.9
54334 2000 KS_{10}	14.4	X	331.06117	267.44355	63.45671	12.87477	0.0560767	0.19470155	2.9481966	21	7 29.4	18.4
54335 2000 KJ_{12}	14.8	X	15.73828	221.72125	58.65702	14.31893	0.1261529	0.23987614	2.5653385	21	8 7.1	17.8
54336 2000 KU_{13}	14.7	X	248.21475	143.80128	231.99795	12.84401	0.1953780	0.23510645	2.5999183	21	5 17.4	18.6
54337 2000 KL_{15}	15.5	X	326.42782	48.92987	81.55804	4.90042	0.1403322	0.26386450	2.4074027	21	—	—
54338 2000 KN_{18}	15.0	X	312.66176	232.02150	87.17863	4.47049	0.0318640	0.23682902	2.5872959	21	6 15.5	18.0
54339 2000 KA_{19}	15.3	X	38.99910	106.65720	40.31337	0.80587	0.0915231	0.22751136	2.6574636	21	2 28.1	18.2
54340 2000 KX_{22}	14.8	X	83.18128	13.67255	52.57200	3.17659	0.0581808	0.22087925	2.7103961	21	1 18.1	18.2
54341 2000 KD_{24}	15.1	X	86.64734	191.92489	73.61244	14.28328	0.0414469	0.24703296	2.5155490	21	10 21.9	18.7
54342 2000 KF_{24}	13.2	X	4.90755	194.35326	75.37596	11.25871	0.0643388	0.19019015	2.9946359	21	6 24.4	17.1
54343 2000 KY_{26}	14.5	X	122.59321	284.48829	68.34392	5.75480	0.0694172	0.21510326	2.7587016	21	—	—
54344 2000 KK_{27}	14.3	X	268.99664	330.51583	71.75244	14.97002	0.1442099	0.24048457	2.5610098	21	7 23.8	17.9
54345 2000 KS_{28}	14.5	X	79.66937	313.47216	74.39438	6.96015	0.0749028	0.21422016	2.7662780	21	—	—
54346 2000 KZ_{28}	15.5	X	236.40655	163.78447	63.70603	1.78104	0.1155183	0.26189046	2.4194850	21	—	—
54347 2000 KB_{29}	15.3	X	42.01328	266.91109	249.14510	6.39137	0.0608555	0.27444693	2.3451131	21	3 3.2	18.0
54348 2000 KP_{29}	13.7	X	159.12624	267.77401	72.37840	7.24578	0.1820704	0.16944161	3.2343673	21	1 26.9	18.9
54349 2000 KX_{29}	13.7	X	182.46744	249.89896	87.77865	2.39786	0.1782457	0.17242468	3.1969543	21	2 11.2	19.0
54350 2000 KO_{30}	15.7	X	327.63210	157.57126	34.02109	0.78719	0.1521780	0.27009790	2.3702196	21	—	—
54351 2000 KV_{30}	14.3	X	295.94290	26.03030	261.37185	4.82800	0.1043432	0.27581982	2.3373248	21	3 21.0	17.3
54352 2000 KK_{31}	15.0	X	58.57875	315.54349	265.33577	3.16355	0.1633763	0.28482897	2.2877748	21	7 26.3	17.3
54353 2000 KH_{32}	15.4	X	237.09394	324.60900	227.12545	5.18529	0.0816356	0.25800411	2.4437211	21	—	—
54354 2000 KO_{32}	14.2	X	205.75507	68.98285	250.38592	8.24327	0.0625783	0.17460381	3.1702991	21	2 5.3	19.1
54355 2000 KJ_{33}	14.5	X	69.69541	145.74143	89.64037	7.50879	0.1412437	0.28690817	2.2767086	21	9 4.0	17.4
54356 2000 KK_{33}	14.2	X	314.74314	164.43463	88.35787	8.60408	0.0954314	0.27367016	2.3495485	21	3 8.2	17.2
54357 2000 KN_{33}	15.1	X	262.63058	2.15988	232.72311	2.55682	0.1527180	0.26553659	2.3972857	21	—	—
54358 2000 KM_{35}	14.1	X	340.76602	335.72363	224.79892	17.11842	0.1719374	0.17976650	3.1093065	21	1 31.9	18.4
54359 2000 KD_{36}	15.1	X	286.94991	64.30037	133.97034	4.30659	0.1229806	0.21855990	2.7295374	21	—	—
54360 2000 KK_{36}	14.6	X	73.87849	352.30795	186.61073	5.20320	0.2116121	0.23634565	2.5908224	21	6 26.7	17.9
54361 2000 KM_{37}	15.9	X	253.66644	345.77170	38.97287	2.13796	0.1096162	0.23854041	2.5749062	21	6 13.1	19.6
54362 Restitutum	14.9	X	334.93591	166.23855	94.07421	13.77285	0.1300929	0.23027056	2.6361924	21	4 22.6	18.2
54363 2000 KH_{39}	16.3	X	357.84219	287.91304	186.09867	4.36452	0.0803754	0.26457798	2.4030728	21	—	—
54364 2000 KN_{42}	14.4	X	88.07640	314.88471	157.57397	15.37364	0.0883824	0.22761147	2.6566843	21	3 31.8	17.9
54365 2000 KO_{42}	14.6	X	131.47680	30.88003	140.33312	15.63238	0.0369283	0.24033402	2.5620792	21	8 4.9	18.0
54366 2000 KL_{43}	15.4	X	283.23483	355.74463	55.50837	6.15649	0.0637074	0.19951052	2.9006290	21	9 5.3	19.3
54367 2000 KL_{48}	15.3	X	163.85480	33.65321	220.54685	10.38599	0.1558019	0.25484221	2.4638928	21	12 26.4	19.3
54368 2000 KM_{50}	14.9	X	296.52556	34.43446	324.54006	6.70319	0.1294821	0.28948094	2.2631990	21	7 3.5	17.4
54369 2000 KS_{50}	13.5	X	339.64371	197.34701	104.37595	12.16426	0.0861718	0.19052727	2.9911024	21	6 27.8	17.1
54370 2000 KT_{50}	13.8	X	274.45851	217.29083	113.57587	11.87084	0.1089309	0.18496937	3.0507234	21	5 6.6	18.4
54371 2000 KC_{52}	15.9	X	345.84740	51.20786	115.68087	3.00705	0.0965830	0.27121877	2.3636847	21	—	—
54372 2000 KN_{53}	13.5	X	157.00197	287.61948	77.95077	16.03220	0.0641704	0.17374631	3.1807216	21	2 17.1	18.5
54373 2000 KZ_{53}	15.1	X	161.10367	12.88731	124.82352	14.61180	0.0986039	0.24449134	2.5329526	21	7 30.6	18.8
54374 2000 KM_{55}	15.0	X	253.97606	143.53413	93.27540	6.67880	0.0785528	0.26523219	2.3991196	21	—	—
54375 2000 KO_{55}	14.2	X	59.31171	252.91069	87.92531	10.24043	0.1184013	0.20494325	2.8491390	21	12 19.8	18.3
54376 2000 KV_{56}	15.5	X	222.65190	170.93006	93.43257	3.55191	0.1652656	0.26370339	2.4083831	21	—	—
54377 2000 KE_{58}	15.1	X	117.27129	260.76176	191.57290	14.14929	0.0808457	0.23216645	2.6218212	21	4 8.8	18.5
54378 2000 KB_{60}	15.3	X	278.80323	57.33334	86.00395	7.12076	0.0605580	0.25879122	2.4387635	21	—	—
54379 2000 KA_{61}	15.2	X	143.72424	278.06605	158.95015	5.28472	0.0971546	0.27878320	2.3207319	21	4 19.8	18.3
54380 2000 KR_{61}	15.1	X	310.71030	309.52534	81.69845	3.98975	0.1290050	0.24547381	2.5261896	21	9 15.4	17.7
54381 2000 KD_{62}	14.4	X	45.03718	293.59901	120.64564	14.18379	0.1075095	0.21581180	2.7526601	21	—	—
54382 2000 KM_{62}	13.6	X	231.40130	205.94525	156.76296	11.68297	0.1684599	0.18525339	3.0476045	21	4 23.7	18.7
54383 2000 KC_{63}	14.3	X	9.47238	103.98281	90.62600	13.12026	0.0494467	0.18318122	3.0705447	21	4 1.6	18.6
54384 2000 KU_{63}	15.3	X	184.49238	36.80739	90.97337	14.00918	0.1450781	0.24568683	2.5247292	21	8 14.2	19.4
54385 2000 KB_{64}	15.3	X	55.98084	10.60188	137.71845	12.54223	0.1252892	0.23169852	2.6253500	21	4 6.6	18.5
54386 2000 KD_{64}	14.1	X	186.33335	205.47121	152.96332	13.89404	0.1845910	0.22468008	2.6797421	21	3 5.0	18.6
54387 2000 KF_{64}	14.3	X	236.95704	182.10581	180.20994	15.45349	0.1255865	0.23312041	2.6146637	21	4 27.2	18.4
54388 2000 KD_{65}	14.2	X	81.49355	262.37917	135.82343	7.47410	0.2746363	0.21655790	2.7463341	21	1 8.9	17.0
54389 2000 KS_{65}	15.3	X	339.28328	160.19294	129.40096	15.78172	0.0879298	0.23588040	2.5942280	21	6 11.3	18.6
54390 2000 KZ_{66}	14.7	X	30.77337	24.97102	224.43681	24.74703	0.1879226	0.28428416	2.2906968	21	7 14.2	17.5
54391 2000 KO_{67}	13.6	X	131.00230	262.17086	122.60678	17.98034	0.1696787	0.21963445	2.7206275	21	2 12.8	17.6
54392 2000 KH_{70}	15.2	X	345.01688	54.01350	289.07933	0.93402	0.1199453	0.19821171	2.9132863	21	8 31.8	18.6
54393 2000 KX_{72}	15.0	X	337.76629	155.98489	124.94687	14.34234	0.0809154	0.23435590	2.6054663	21	5 29.2	18.3
54394 2000 KB_{73}	14.4	X	134.74112	358.61864	140.72361	13.79594	0.1227022	0.23828971	2.5767119	21	7 5.2	18.4
54395 2000 KD_{75}	15.6	X	306.60409	334.74765	169.38152	5.67716	0.0554431	0.26192647	2.4192632	21	—	—
54396 2000 KW_{78}	13.9	X	92.81755	330.99265	87.65932	5.74765	0.1335750	0.17497374	3.1658291	21	2 11.6	18.2
54397 2000 KC_{80}	15.0	X	7.59848	0.35113	153.15221	5.26935	0.1338309	0.27020676	2.3695829	21	—	—
54398 2000 KP_{82}	14.7	X	167.45924	252.77625	129.77381	4.44997	0.0897224	0.22879128	2.6475433	21	3 11.3	18.5
54399 2000 KV_{82}	15.1	X	351.05046	316.19243	142.64196	7.36878	0.0696408	0.26465987	2.4025770	21	—	—
54400 2000 LD	14.8	X	314.87263	89.80606	108.11685	3.62197	0.1404708	0.22301163	2.6930911	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54401 2000 LM	17.1	X	128.43568	67.07290	240.85958	18.95029	0.2623800	0.44049018	1.7107186	21	—	—
54402 2000 LA_2	13.9	X	9.03714	227.49977	50.24847	10.61195	0.0727624	0.19120498	2.9840305	21	7 13.6	17.8
54403 2000 LD_2	14.8	X	28.32614	276.85237	260.54553	11.04659	0.1633127	0.23034510	2.6356237	21	3 18.1	17.6
54404 2000 LO_3	14.8	X	269.53389	153.81977	130.35176	10.85386	0.1117749	0.22475682	2.6791321	21	2 23.9	18.8
54405 2000 LL_4	14.4	X	211.08089	123.71243	157.74335	9.56608	0.1316384	0.21585960	2.7522537	21	—	—
54406 2000 LR_4	14.3	X	307.85196	214.85500	164.56409	7.64158	0.0624785	0.24207511	2.5497795	21	8 28.8	17.3
54407 2000 LU_6	15.2	X	245.98467	222.55098	161.13879	3.95372	0.0093842	0.23739832	2.5831579	21	6 15.5	18.5
54408 2000 LZ_6	15.5	X	326.10796	238.77666	189.36420	6.12060	0.1077304	0.20693029	2.8308705	21	11 26.2	18.8
54409 2000 LD_8	15.7	X	31.60996	84.80183	137.67947	0.43008	0.0952140	0.28093583	2.3088619	21	5 30.0	17.8
54410 2000 LG_9	14.9	X	240.80994	113.51643	114.41997	3.65539	0.1597783	0.26217126	2.4177571	21	—	—
54411 Bobestelle	14.3	X	120.10324	75.54785	254.61634	10.30025	0.1848768	0.20415341	2.8564829	21	—	—
54412 2000 LU_{10}	14.5	X	11.30936	110.73641	142.13678	12.17270	0.0867081	0.23473501	2.6026602	21	6 12.3	17.7
54413 2000 LL_{11}	13.8	X	340.57953	161.52106	123.96543	16.86941	0.1706492	0.23311673	2.6146913	21	5 31.9	16.8
54414 2000 LA_{13}	13.4	X	309.84198	243.02933	123.63458	11.41589	0.1170663	0.19165759	2.9793307	21	8 4.8	16.9
54415 2000 LR_{13}	13.6	X	334.14012	102.89579	164.18940	10.37534	0.0504020	0.18390472	3.0624861	21	5 10.4	17.8
54416 2000 LR_{14}	15.1	X	106.48378	140.20814	93.73686	4.57271	0.0669243	0.24466929	2.5317243	21	10 3.5	18.6
54417 2000 LH_{17}	14.9	X	138.53148	339.98190	149.15084	7.69963	0.0474435	0.28280115	2.2986981	21	6 18.4	17.9
54418 2000 LO_{17}	13.0	X	3.93741	248.99869	82.85027	14.15401	0.2025169	0.23867907	2.5739088	21	10 12.9	15.7
54419 2000 LA_{20}	14.2	X	296.87382	76.72688	127.97361	13.20571	0.1889947	0.26470375	2.4023115	21	—	—
54420 2000 LT_{20}	14.3	X	288.53054	153.33060	271.11859	19.54644	0.0816992	0.33448158	2.0553600	21	10 1.5	17.0
54421 2000 LG_{23}	14.4	X	339.06751	317.27924	288.99059	12.16006	0.1367624	0.22633203	2.6666870	21	3 25.3	17.9
54422 2000 LK_{23}	14.8	X	339.19874	359.71167	231.22258	12.51041	0.1370116	0.22413232	2.6841064	21	3 6.8	18.4
54423 2000 LO_{24}	13.1	X	178.65972	114.62124	202.07975	22.37859	0.1121556	0.16903446	3.2395589	21	1 8.4	18.6
54424 2000 LP_{24}	14.9	X	228.85862	194.95830	157.94624	15.61460	0.1029490	0.22725344	2.6594739	21	4 9.9	19.1
54425 2000 LX_{24}	14.6	X	254.22767	89.78292	193.99095	15.68412	0.1360748	0.21986438	2.7187303	21	2 1.2	19.2
54426 2000 LR_{25}	13.8	X	351.74243	331.11310	304.85871	7.96966	0.1120954	0.18635063	3.0356298	21	6 10.7	17.5
54427 2000 LG_{27}	13.6	X	342.01245	351.28788	319.40872	8.87858	0.1045159	0.18561362	3.0436601	21	7 14.0	17.4
54428 2000 LN_{27}	12.4	X	273.23651	18.52958	299.25888	16.40146	0.1013353	0.17726915	3.1384408	21	4 6.9	17.3
54429 2000 LN_{28}	14.6	X	254.24604	131.91181	132.55604	3.89830	0.1666054	0.21589786	2.7519286	21	1 11.5	19.0
54430 2000 LZ_{29}	14.0	X	294.53268	118.66936	251.61353	12.87877	0.1277446	0.23965077	2.5669466	21	7 13.3	17.3
54431 2000 LA_{31}	16.1	X	227.41062	30.30976	170.40896	6.65667	0.0636731	0.25823485	2.4422652	21	—	—
54432 2000 LG_{31}	13.4	X	356.45138	14.40249	303.08585	12.48026	0.1859421	0.23516902	2.5994570	21	8 18.3	15.7
54433 2000 LH_{32}	14.1	X	74.28486	47.14358	208.22997	9.88223	0.0580898	0.19177269	2.9781384	21	9 9.6	18.4
54434 2000 LU_{33}	14.8	X	283.42352	2.16901	274.25644	12.56358	0.1936185	0.22348286	2.6893041	21	2 13.5	19.2
54435 2000 LM_{35}	13.9	X	276.41699	95.53343	274.44901	8.19216	0.0678802	0.18406529	3.0607048	21	6 29.3	18.1
54436 2000 LK_{36}	14.4	X	25.66712	335.87648	100.02910	16.96690	0.0699805	0.21594646	2.7515157	21	—	—
54437 2000 MW	14.0	X	231.58475	151.00682	272.48255	13.98756	0.0789474	0.23737122	2.5833545	21	7 11.0	17.7
54438 2000 MB_2	14.5	X	117.70116	296.64135	306.67175	3.97502	0.1992766	0.24147142	2.5540274	21	11 1.4	18.8
54439 Topeka	14.5	X	133.82554	89.48561	155.49725	16.54241	0.1903189	0.24372244	2.5382771	21	11 22.4	19.0
54440 2000 MP_3	14.8	X	37.95678	182.48428	103.03309	5.35776	0.1900094	0.24088581	2.5581651	21	9 30.9	17.8
54441 2000 MP_5	13.8	X	76.43538	153.85229	140.56105	13.57548	0.2154465	0.24247458	2.5469783	21	12 2.1	18.0
54442 2000 MS_5	14.3	X	337.87297	110.17192	147.89077	15.40369	0.2073225	0.22866858	2.6484903	21	4 11.1	17.3
54443 2000 MT_5	14.0	X	323.73680	148.39736	141.90170	24.39292	0.1888379	0.27586158	2.3370889	21	5 4.3	17.2
54444 2000 MU_5	12.4	X	71.43678	189.91341	283.18781	20.05560	0.0360676	0.16975124	3.2304330	21	2 25.7	17.2
54445 2000 MW_5	13.9	X	23.07369	119.93211	173.96391	14.32666	0.2017847	0.23510612	2.5999207	21	9 14.6	16.3
54446 2000 MY_5	15.1	X	261.59453	120.35364	155.20330	5.35394	0.1278518	0.21992013	2.7182708	21	2 2.2	19.3
54447 2000 NX_1	14.1	X	355.10462	157.85793	107.95045	16.04977	0.0844449	0.23155482	2.6264360	21	6 4.6	17.4
54448 2000 NZ_2	14.7	X	141.02976	59.16542	119.90145	22.24019	0.1614292	0.28986817	2.2611829	21	9 12.8	18.5
54449 2000 NY_7	14.5	X	273.60390	45.93524	144.20357	9.68716	0.0892893	0.21064353	2.7975035	21	—	—
54450 2000 NT_{10}	14.9	X	271.56902	257.89655	355.59793	8.55404	0.1077122	0.21706735	2.7420354	21	1 22.0	19.1
54451 2000 NV_{10}	13.4	X	276.25306	294.09124	349.19879	10.42909	0.1516108	0.17419551	3.1752511	21	3 3.6	18.2
54452 2000 NX_{13}	14.9	X	317.05108	94.07074	140.49462	10.66386	0.1472363	0.22059114	2.7127556	21	2 12.2	18.5
54453 2000 NL_{15}	13.8	X	343.94363	43.71964	328.90470	9.30182	0.1160893	0.19170464	2.9788431	21	10 4.6	17.4
54454 2000 NA_{16}	14.2	X	312.18012	119.95421	10.88792	1.86428	0.0149045	0.20464484	2.8519080	21	—	—
54455 2000 NW_{16}	15.0	X	132.59960	92.28665	103.44580	9.80762	0.1683018	0.23885789	2.5726240	21	9 21.8	19.3
54456 2000 NJ_{17}	13.9	X	125.56234	136.71073	335.85765	15.19467	0.0309949	0.17755269	3.1350987	21	5 6.2	18.7
54457 2000 NC_{24}	13.7	X	158.98187	25.05880	124.32156	18.49264	0.1235289	0.23613059	2.5923952	21	8 14.0	17.7
54458 2000 NM_{24}	14.7	X	27.80845	328.57410	293.27199	14.17845	0.1720933	0.23446500	2.6046580	21	7 30.7	17.4
54459 2000 NX_{24}	14.5	X	260.60280	306.95093	280.11085	3.30427	0.0911656	0.21328624	2.7743473	21	—	—
54460 2000 NU_{28}	14.1	X	334.67619	201.45181	133.96790	3.32133	0.2019680	0.18818657	3.0158539	21	7 26.1	17.0
54461 2000 NA_{29}	13.6	X	36.27073	273.04643	272.68331	13.72751	0.1922671	0.17940794	3.1134480	21	4 28.9	17.3
54462 2000 NC_{29}	14.1	X	173.90475	155.57847	148.05325	17.34711	0.1916332	0.21074173	2.7966343	21	—	—
54463 2000 OS_1	15.0	X	168.76902	268.84664	2.67438	4.87015	0.1677982	0.25680331	2.4513329	21	—	—
54464 2000 OX_1	14.1	X	267.11086	102.11899	316.23956	8.67359	0.0942642	0.18773810	3.0206549	21	8 14.8	18.1
54465 2000 OE_4	14.0	X	301.09615	97.30792	190.38700	8.05815	0.1729064	0.22488739	2.6780950	21	3 27.0	17.4
54466 2000 OO_4	14.2	X	343.63986	54.24192	177.94401	13.47812	0.1276623	0.22346881	2.6894167	21	3 23.0	17.3
54467 2000 OE_6	13.4	X	85.53815	311.20482	279.79729	10.85148	0.1083062	0.23515008	2.5995966	21	8 31.0	17.2
54468 2000 OA_7	14.5	X	102.24033	323.34954	277.75603	12.64103	0.1463812	0.24150664	2.5537791	21	10 6.6	18.6
54469 2000 OM_8	14.1	X	294.93422	114.99531	189.71637	9.52884	0.0853011	0.17951663	3.1121911	21	4 29.6	18.4
54470 2000 OE_{10}	14.6	X	194.18765	8.85056	277.64996	7.64985	0.2289562	0.21289989	2.7777027	21	—	—
54471 2000 OC_{11}	14.4	X	168.65721	68.84786	272.41654	5.12110	0.0192910	0.21601187	2.7509602	21	1 14.3	18.3
54472 2000 OL_{11}	14.4	X	78.19145	156.07107	126.81011	3.06153	0.0597497	0.19697853	2.9254328	21	10 24.2	18.4
54473 2000 OK_{13}	13.4	X	336.99899	355.86942	291.47859	8.47018	0.0585398	0.18385740	3.0630116	21	6 6.2	17.4
54474 2000 OV_{13}	13.9	X	15.35564	320.18687	303.17806	10.09273	0.0795756	0.18604551	3.0389479	21	7 3.8	17.8
54475 2000 OC_{16}	14.7	X	241.75676	307.99085	329.43369	3.42466	0.0782463	0.21646789	2.7470953	21	1 20.3	18.7
54476 2000 OK_{16}	13.3	X	282.51349	40.88008	312.27330	12.03104	0.2121999	0.18262163	3.0768139	21	5 23.1	18.0
54477 2000 OM_{17}	14.4	X	233.64566	116.77049	169.90012	1.77399	0.1307914	0.21635010	2.7480923	21	1 20.4	18.7
54478 2000 OG_{23}	13.9	X	243.89730	217.27131	106.24186	20.29362	0.1742730	0.17602268	3.1532395	21	3 25.3	19.3
54479 2000 OX_{23}	13.9	X	8.13552	218.56129	98.27907	12.36390	0.1078929	0.19103979	2.9857503	21	9 9.8	17.7
54480 2000 OB_{24}	14.6	X	33.79996	200.24003	92.18890	8.83650	0.1896297	0.23893515	2.5720694	21	10 5.9	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54481 2000 OB_{25}	14.1	X	76.35358	199.81628	317.78124	12.65962	0.1121517	0.22752355	2.6573687	21	5 10.9	17.8
54482 2000 OE_{25}	14.6	X	330.18877	299.89002	324.69474	8.06820	0.1730819	0.22787442	2.6546402	21	4 2.9	17.9
54483 2000 OF_{26}	15.4	X	119.49986	273.51207	70.67077	4.11342	0.1497069	0.30161647	2.2020779	21	—	—
54484 2000 OJ_{26}	15.3	X	74.53162	150.19880	103.55984	5.70975	0.2017797	0.24015878	2.5633254	21	10 8.7	19.0
54485 2000 OR_{27}	14.3	X	337.31143	110.83562	146.73871	15.53952	0.0947186	0.22521446	2.6755015	21	4 26.3	17.8
54486 2000 OO_{29}	14.2	X	323.31370	73.08712	262.95822	8.98258	0.1103479	0.18672282	3.0315945	21	7 14.5	18.1
54487 2000 OD_{30}	14.5	X	320.43577	158.04221	173.90772	10.12879	0.0985343	0.18585679	3.0410047	21	7 6.1	18.5
54488 2000 OG_{32}	14.1	X	301.56861	23.70911	299.36875	9.55938	0.0622370	0.18180294	3.0860440	21	6 2.0	18.4
54489 2000 OZ_{32}	14.5	X	1.60527	96.73092	150.95080	14.51602	0.0545280	0.22937221	2.6430712	21	5 22.5	18.1
54490 2000 ON_{34}	14.1	X	214.38914	65.81874	199.21077	8.85876	0.1160691	0.21235164	2.7824816	21	—	—
54491 2000 OD_{35}	14.4	X	321.56667	151.49032	196.37253	9.80853	0.1271324	0.18784931	3.0194626	21	7 24.7	18.3
54492 2000 OB_{36}	13.8	X	255.48469	184.31129	112.17053	17.50702	0.0843504	0.17472606	3.1688201	21	3 9.2	18.8
54493 2000 OP_{37}	14.6	X	142.99146	99.17884	197.74919	10.32180	0.1244191	0.20587632	2.8405239	21	—	—
54494 2000 OB_{38}	13.7	X	214.35428	71.75156	239.07186	10.02866	0.0266679	0.16920553	3.2373751	21	2 4.9	18.7
54495 2000 OL_{38}	14.7	X	48.75733	348.15249	210.82562	9.15278	0.1448979	0.22870005	2.6482473	21	6 4.5	17.8
54496 2000 OT_{40}	14.0	X	270.41904	151.94374	232.10142	7.78536	0.0370143	0.18385131	3.0630792	21	7 12.9	18.4
54497 2000 OF_{41}	14.3	X	302.09248	99.24463	225.54005	9.46780	0.0402192	0.18259961	3.0770613	21	6 8.9	18.5
54498 2000 OK_{41}	14.3	X	304.18995	147.12980	210.71103	9.67253	0.0289413	0.18594928	3.0399963	21	7 23.6	18.7
54499 2000 OS_{41}	14.4	X	154.95122	26.94550	242.13438	11.90143	0.0913066	0.20502901	2.8483444	21	12 29.4	18.9
54500 2000 OR_{44}	14.5	X	337.13427	315.67798	318.39631	13.63427	0.0979724	0.22529633	2.6748533	21	5 7.2	18.0
54501 2000 OB_{52}	13.4	X	42.44678	342.05915	4.22996	15.66597	0.1259354	0.23864591	2.5741472	21	12 11.8	17.2
54502 2000 OX_{52}	15.3	X	307.70898	233.19122	70.29376	5.67224	0.1575295	0.27039047	2.3685095	21	4 25.9	18.2
54503 2000 OV_{53}	13.9	X	279.75933	10.22310	316.29520	15.30964	0.0971955	0.17606591	3.1527233	21	4 28.2	18.7
54504 2000 OV_{54}	14.7	X	304.31659	311.01915	176.89259	1.97202	0.0201387	0.20479406	2.8505225	21	—	—
54505 2000 OK_{55}	14.5	X	141.15019	121.71598	155.72068	2.42620	0.0281111	0.20297334	2.8675437	21	12 25.9	18.6
54506 2000 OA_{57}	14.0	X	211.08568	92.95840	325.76108	14.11387	0.1729016	0.18023801	3.1038815	21	6 7.7	19.3
54507 2000 OD_{59}	14.8	X	75.25620	53.37880	134.30078	9.70521	0.1226498	0.23046378	2.6347188	21	6 26.9	18.2
54508 2000 PD_{4}	14.4	X	158.92518	289.35356	141.18281	14.50641	0.0285539	0.22546755	2.6734989	21	5 1.5	18.4
54509 YORP	22.7	X	7.09543	278.92662	278.22933	1.59940	0.2299807	0.97685107	1.0059672	21	—	—
54510 2000 PD_{7}	14.3	X	79.54428	305.64228	257.72152	1.75435	0.0465729	0.23229771	2.6208335	21	7 12.1	17.7
54511 2000 PX_{10}	13.8	X	13.03146	263.88411	42.11367	11.04265	0.0789593	0.18628868	3.0363027	21	8 31.9	17.8
54512 2000 PO_{11}	14.8	X	271.82083	158.53711	107.43844	14.15449	0.1466477	0.21609913	2.7502196	21	2 1.6	19.1
54513 2000 PS_{11}	12.9	X	220.21732	287.81954	105.72106	15.93452	0.1340709	0.17537782	3.1609644	21	5 23.8	18.1
54514 2000 PA_{12}	12.8	X	150.27755	323.35429	125.03684	20.83912	0.2340345	0.12337514	3.9962344	21	6 1.4	19.6
54515 2000 PH_{19}	14.5	X	346.18356	113.02246	116.63655	14.24489	0.1296281	0.22382711	2.6865459	21	3 30.2	17.9
54516 2000 PB_{20}	13.5	X	118.75792	106.30927	353.18010	17.14747	0.1317403	0.17265125	3.1941568	21	4 23.9	18.5
54517 2000 PK_{21}	14.9	X	278.14703	102.19980	335.11083	8.76732	0.0438742	0.19321662	2.9632826	21	9 28.1	19.0
54518 2000 PH_{28}	13.5	X	164.39670	303.72781	135.24531	20.37951	0.0570882	0.17500123	3.1654975	21	5 24.6	18.6
54519 2000 PF_{29}	14.9	X	217.92398	170.50503	112.00248	10.51009	0.1336589	0.21283945	2.7782285	21	1 2.1	19.4
54520 2000 PJ_{30}	8.0	X	12.36584	304.55120	293.11934	5.68806	0.7709775	0.00069781	125.8855584	21	8 23.0	25.3
54521 Aladdin	13.1	X	317.07967	260.62529	341.84653	14.52524	0.1334668	0.17296072	3.1903456	21	3 4.0	17.4
54522 Menaechmus	14.3	X	39.35231	324.25613	324.47858	8.98230	0.0844336	0.18895000	3.0077250	21	9 9.8	18.3
54523 2000 QV_{2}	12.8	X	93.57093	169.13693	320.19125	8.88480	0.0776759	0.17349936	3.1837390	21	4 26.9	17.4
54524 2000 QX_{2}	14.2	X	323.50043	342.42186	338.78252	15.53125	0.1925056	0.23038073	2.6353519	21	6 12.5	17.5
54525 2000 QZ_{3}	14.2	X	59.07076	276.07156	345.50393	8.50548	0.2033643	0.18946997	3.0022196	21	9 20.9	18.3
54526 2000 QS_{13}	14.4	X	189.79024	30.41365	315.33849	4.29632	0.1181245	0.16917988	3.2377022	21	2 23.9	19.6
54527 2000 QJ_{16}	14.4	X	200.59153	72.76349	127.67404	3.03898	0.0230180	0.19883290	2.9072155	21	12 1.5	18.6
54528 2000 QF_{18}	15.3	X	114.11329	96.68594	152.18634	14.36210	0.1455395	0.24243703	2.5472412	21	11 7.9	19.5
54529 2000 QW_{20}	14.6	X	13.88550	296.86059	335.36228	8.80610	0.0967959	0.18270839	3.0758398	21	7 15.3	18.4
54530 2000 QN_{26}	15.2	X	79.21899	286.04341	353.26508	5.58393	0.1879517	0.24135912	2.5548196	21	11 8.5	19.1
54531 2000 QH_{33}	14.0	X	24.46079	191.32833	87.92257	14.50628	0.1415390	0.23239722	2.6200853	21	8 23.2	17.1
54532 2000 QR_{35}	15.7	X	240.29616	167.46407	260.47133	1.61471	0.2041938	0.27602949	2.3361410	21	7 15.0	18.9
54533 2000 QM_{38}	14.0	X	8.80298	353.28155	40.69798	0.66198	0.0782006	0.15127078	3.4884515	21	12 2.9	18.4
54534 2000 QE_{39}	14.4	X	322.45856	347.76378	299.11371	3.88499	0.1241254	0.18019268	3.1044020	21	5 6.4	18.3
54535 2000 QJ_{39}	13.9	X	261.04321	111.30169	321.34588	12.43358	0.0870318	0.18757329	3.0224239	21	8 25.4	18.1
54536 2000 QD_{46}	15.2	X	339.70592	274.89117	329.72564	4.91970	0.1713294	0.22441649	2.6818401	21	3 25.1	18.3
54537 2000 QD_{49}	15.0	X	277.17373	80.09283	156.13242	4.30436	0.1638128	0.26185309	2.4197152	21	—	—
54538 2000 QC_{51}	13.2	X	314.96199	268.16259	341.91516	18.02087	0.1928813	0.17403879	3.1771571	21	3 2.2	17.4
54539 2000 QR_{56}	14.9	X	107.08615	74.77581	160.40565	12.01492	0.0167553	0.19024609	2.9940489	21	9 23.6	19.1
54540 2000 QQ_{58}	14.5	X	62.75226	233.89866	10.22509	10.02666	0.0352172	0.18611776	3.0381613	21	8 14.2	18.8
54541 2000 QW_{58}	14.5	X	222.75362	210.14787	24.64623	7.91176	0.1249231	0.25455606	2.4657389	21	—	—
54542 2000 QO_{59}	15.8	X	23.76941	173.99676	79.56223	5.33893	0.0921438	0.27747002	2.3280484	21	7 3.8	18.1
54543 2000 QC_{60}	14.0	X	205.26349	19.39161	127.95862	14.38937	0.1140289	0.24071398	2.5593824	21	10 3.4	18.0
54544 2000 QK_{62}	13.7	X	181.94379	80.24745	24.41549	10.96315	0.1867436	0.17795640	3.1303554	21	7 10.3	19.1
54545 2000 QS_{64}	13.8	X	277.76608	288.59629	14.86906	17.25593	0.1483482	0.17419036	3.1753137	21	3 30.2	18.4
54546 2000 QQ_{69}	14.8	X	61.50713	312.83449	281.17861	2.68419	0.0890364	0.18256098	3.0774953	21	8 2.5	19.0
54547 2000 QO_{71}	14.1	X	71.74789	60.86656	326.48395	14.54787	0.0350405	0.15776768	3.3920118	21	—	—
54548 2000 QO_{76}	14.2	X	91.03367	305.35778	333.06461	9.03325	0.0474792	0.19344224	2.9609780	21	10 26.6	18.6
54549 2000 QX_{84}	14.5	X	201.03505	148.79791	311.53713	10.02215	0.0429461	0.18397316	3.0617266	21	7 26.9	18.8
54550 2000 QA_{87}	14.0	X	156.81301	205.05428	305.99338	8.22289	0.0293340	0.18464274	3.0543202	21	8 7.0	18.3
54551 2000 QX_{87}	13.5	X	77.42141	203.08506	321.22567	14.34504	0.1667866	0.17647012	3.1479073	21	6 5.5	18.0
54552 2000 QO_{100}	14.2	X	283.23491	297.25603	20.94356	9.53960	0.0681003	0.17486026	3.1671986	21	5 1.4	18.7
54553 2000 QE_{103}	14.5	X	185.51532	318.54281	42.09534	9.89152	0.1844035	0.21379688	2.7699280	21	3 11.7	19.2
54554 2000 QS_{105}	13.8	X	293.59432	146.03507	80.66119	10.85169	0.1487823	0.21128105	2.7918732	21	1 7.5	17.9
54555 2000 QK_{112}	13.8	X	202.13907	359.17065	161.12421	11.06261	0.0225215	0.19088641	2.9873495	21	10 16.2	18.1
54556 2000 QX_{116}	13.2	X	353.94145	292.02951	54.61079	11.00798	0.1078264	0.18639865	3.0351084	21	9 26.0	17.0
54557 2000 QG_{119}	13.9	X	287.47646	61.83728	321.54913	7.87657	0.0211771	0.18291089	3.0735693	21	8 7.7	18.1
54558 2000 QR_{125}	14.1	X	5.77609	134.29396	195.07582	9.93019	0.0711732	0.18774472	3.0205838	21	9 12.5	18.1
54559 2000 QR_{128}	14.0	X	315.97618	339.88575	329.11647	11.15119	0.0479142	0.17827082	3.1266735	21	6 5.1	18.4
54560 2000 QM_{132}	13.9	X	9.71704	178.59324	118.50937	8.36527	0.1604405	0.23507529	2.6001480	21	8 19.6	16.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54561 2000 QH_{135}	14.2	X	290.49535	169.28744	144.12696	24.19828	0.0880938	0.17858331	3.1230251	21	5 10.8	19.1
54562 2000 QU_{140}	13.2	X	86.09242	238.64910	5.34437	17.32491	0.2688785	0.18912334	3.0058869	21	10 6.2	18.0
54563 Kinokonasu	13.2	X	138.82235	248.58916	267.45093	11.85217	0.1901530	0.17913114	3.1166544	21	7 30.8	18.5
54564 2000 QZ_{148}	13.9	X	46.60623	3.62849	266.58562	7.30833	0.0645962	0.18653554	3.0336233	21	8 22.8	18.1
54565 2000 QK_{149}	14.1	X	353.54882	282.90527	354.32744	12.31100	0.0869096	0.17999861	3.1066330	21	6 16.3	18.2
54566 2000 QW_{151}	14.6	X	14.45253	25.40810	246.30255	3.25671	0.1265902	0.18270214	3.0759100	21	7 14.8	18.3
54567 2000 QZ_{151}	13.9	X	194.22120	279.66987	346.72790	14.78298	0.1312644	0.15707968	3.4019092	21	—	—
54568 2000 QO_{152}	14.0	X	349.09783	123.41803	207.29831	4.14391	0.1124607	0.18919027	3.0051779	21	8 19.7	17.6
54569 2000 QV_{152}	14.5	X	321.50207	324.06075	289.93073	5.02978	0.0850121	0.17553495	3.1590778	21	3 28.2	18.7
54570 2000 QB_{154}	14.1	X	18.58625	73.01850	201.56142	12.19992	0.0198809	0.18487755	3.0517334	21	7 16.7	18.5
54571 2000 QG_{155}	13.8	X	220.36247	253.92663	168.74280	17.78025	0.2556087	0.18109575	3.0940729	21	6 18.1	19.4
54572 2000 QL_{155}	14.1	X	136.39881	207.57456	242.04118	7.88200	0.0790599	0.17422789	3.1748577	21	5 1.5	18.8
54573 2000 QP_{155}	14.6	X	337.91750	38.44073	260.43483	8.57771	0.0974228	0.18283055	3.0744696	21	6 20.1	18.4
54574 2000 QL_{157}	14.1	X	215.36366	139.47540	223.44896	10.14208	0.0965521	0.17517012	3.1634625	21	4 8.0	19.0
54575 2000 QY_{157}	14.4	X	176.84313	210.75120	180.89858	12.76017	0.1080294	0.17354173	3.1832208	21	4 7.6	19.3
54576 2000 QE_{159}	14.1	X	152.67120	251.86454	259.43073	7.76806	0.0820109	0.18370434	3.0647128	21	8 2.9	18.9
54577 2000 QA_{160}	14.5	X	189.81165	214.26845	245.83170	9.12837	0.0628930	0.18156083	3.0887868	21	7 10.8	19.2
54578 2000 QK_{161}	14.2	X	142.49848	310.00888	187.84110	12.06156	0.0790547	0.18293244	3.0733279	21	7 6.8	19.0
54579 2000 QA_{165}	14.2	X	246.19411	145.48291	299.01643	10.79855	0.0439825	0.18625735	3.0366432	21	8 25.9	18.6
54580 2000 QE_{168}	14.3	X	71.77405	289.49378	326.31818	15.24977	0.0379713	0.18693505	3.0292996	21	9 3.4	18.5
54581 2000 QW_{170}	12.2	X	274.63959	101.68141	256.98401	5.45760	0.0995304	0.08386530	5.1690952	21	6 10.9	19.1
54582 2000 QU_{179}	12.5	X	289.82142	242.73778	101.32518	2.89267	0.0869270	0.08399791	5.1636530	21	6 13.5	19.3
54583 2000 QT_{180}	14.9	X	33.46252	76.22607	264.32169	5.90682	0.1481149	0.28087485	2.3091961	21	12 6.6	17.5
54584 2000 QC_{181}	14.8	X	344.82668	314.75599	32.01312	8.84466	0.1719988	0.27487374	2.3426849	21	9 21.7	16.6
54585 2000 QJ_{187}	14.9	X	353.81160	176.08038	71.37892	6.36733	0.2094930	0.22724454	2.6595434	21	4 25.1	17.4
54586 2000 QV_{188}	14.3	X	162.84301	289.03731	140.40169	16.97280	0.0892678	0.17410202	3.1763878	21	5 12.5	19.5
54587 2000 QM_{189}	14.1	X	341.78580	162.44714	110.25031	11.16718	0.0428609	0.17900549	3.1181128	21	5 28.9	18.4
54588 2000 QE_{192}	13.8	X	18.76605	191.68369	12.03069	18.00001	0.0974698	0.17534755	3.1613282	21	4 16.9	17.7
54589 2000 QF_{195}	15.0	X	94.70311	218.02697	23.38654	3.15917	0.1739776	0.23976950	2.5660991	21	10 8.4	18.8
54590 2000 QA_{202}	14.1	X	194.74008	41.14528	113.73371	3.72952	0.0950663	0.18951131	3.0017830	21	9 24.7	18.6
54591 2000 QC_{202}	14.9	X	134.88087	100.82859	136.99885	6.40131	0.1456600	0.24265208	2.5457361	21	11 11.8	19.0
54592 2000 QA_{216}	14.1	X	29.10127	187.67396	29.61088	9.70599	0.0227942	0.17497687	3.1657914	21	5 18.6	18.4
54593 2000 QR_{219}	15.0	X	320.38309	257.22900	352.73447	10.80804	0.1633749	0.22359959	2.6883680	21	3 6.4	18.5
54594 2000 QZ_{220}	15.2	X	225.54749	122.17342	142.56903	4.21911	0.0513578	0.21090130	2.7952236	21	—	—
54595 2000 QZ_{222}	14.0	X	167.91823	122.50508	109.50888	14.95403	0.2425600	0.20182470	2.8784134	21	11 28.3	19.2
54596 2000 QD_{225}	12.5	X	324.21151	155.28127	147.28079	5.35073	0.0730951	0.08609796	5.0793423	21	6 10.6	19.0
54597 2000 QZ_{229}	15.8	X	85.34650	36.22485	138.69178	7.25714	0.0489857	0.27143110	2.3624519	21	6 10.9	18.7
54598 Bienor	7.5	X	324.76806	152.94472	337.70131	20.74567	0.1994994	0.01474375	16.4714058	21	12 14.2	19.0
54599 2000 QN_{244}	13.6	X	67.74051	155.51858	9.09532	0.34788	0.0581064	0.12668658	3.9262893	21	5 12.3	19.0
54600 2000 RU_{8}	14.5	X	271.35145	314.74118	83.75433	7.04959	0.1137713	0.27153911	2.3618254	21	7 26.6	17.3
54601 2000 RZ_{13}	13.5	X	150.20512	277.78848	187.04874	21.81641	0.0912801	0.17664053	3.1458823	21	6 7.0	18.7
54602 2000 RB_{15}	14.1	X	49.09645	302.81732	296.69609	10.76068	0.1338747	0.18346265	3.0674037	21	7 29.2	18.0
54603 2000 RF_{16}	13.7	X	213.05297	288.03493	302.47123	9.65866	0.0732508	0.20287684	2.8684529	21	—	—
54604 2000 RG_{18}	14.0	X	3.81351	264.97514	312.03800	10.59621	0.1228121	0.17333943	3.1856970	21	4 7.6	18.0
54605 2000 RP_{26}	14.2	X	80.46359	284.44836	305.51144	11.52176	0.2323735	0.23361158	2.6109976	21	9 9.6	18.2
54606 2000 RA_{28}	13.7	X	133.72723	297.61419	277.05979	9.05756	0.0589088	0.18928084	3.0042191	21	9 26.7	18.3
54607 2000 RX_{28}	13.5	X	214.08693	311.51527	271.82342	9.33571	0.0902697	0.20070315	2.8891267	21	—	—
54608 2000 RH_{33}	13.9	X	17.77157	286.11590	348.28667	11.04870	0.1801354	0.18240624	3.0792356	21	8 2.3	17.4
54609 2000 RN_{36}	14.4	X	311.20027	329.38692	342.65782	16.28332	0.1117111	0.17968458	3.1102515	21	5 20.7	18.9
54610 2000 RG_{52}	14.1	X	181.20427	171.45955	254.45439	8.89228	0.2043245	0.21977461	2.7194706	21	5 20.8	18.7
54611 2000 RO_{63}	14.6	X	266.34464	93.85577	153.10025	9.64472	0.1095757	0.21644524	2.7472870	21	1 5.9	18.9
54612 2000 RA_{68}	14.3	X	338.21624	296.65779	333.34666	14.20340	0.0654277	0.22838900	2.6506512	21	5 5.6	18.0
54613 2000 RD_{80}	13.8	X	180.97025	283.56061	288.45871	11.72084	0.0700957	0.19603648	2.9347974	21	11 16.6	18.4
54614 2000 RL_{84}	13.0	X	251.61869	198.26138	183.89803	11.80961	0.1370895	0.08326146	5.1940570	21	6 9.5	20.3
54615 2000 RF_{87}	14.7	X	97.57405	235.93532	354.56457	8.21589	0.2041328	0.23468527	2.6030279	21	9 28.8	18.7
54616 2000 RZ_{97}	13.5	X	3.82006	255.75016	311.32557	25.65741	0.0241283	0.16984364	3.2292613	21	3 19.9	18.5
54617 2000 RS_{98}	14.0	X	91.72746	336.06816	273.53418	12.14824	0.2404464	0.23843829	2.5756414	21	10 16.8	18.3
54618 2000 RB_{102}	13.2	X	193.61797	111.52582	290.76016	11.43225	0.0197668	0.17161370	3.2070181	21	5 2.4	18.0
54619 2000 SS_{3}	14.2	X	180.45571	345.23143	109.02370	11.81309	0.0592800	0.17836510	3.1255717	21	6 24.9	19.0
54620 2000 ST_{8}	13.4	X	319.14113	267.47930	359.73370	13.78335	0.2066091	0.17371691	3.1810804	21	3 26.0	17.6
54621 2000 SS_{12}	14.7	X	343.83541	186.55380	113.70232	7.69745	0.1039810	0.18363508	3.0654833	21	7 1.4	18.4
54622 2000 SH_{31}	14.0	X	203.18168	46.31004	177.07719	10.16556	0.0411307	0.15222261	3.4738943	21	12 20.9	19.3
54623 2000 SR_{34}	14.5	X	299.91345	287.64472	5.89077	8.73811	0.0535313	0.17412845	3.1760663	21	4 23.2	19.0
54624 2000 SH_{45}	13.3	X	221.08585	70.55129	255.31591	15.95740	0.0913275	0.17139294	3.2097713	21	2 23.5	18.6
54625 2000 SC_{49}	12.4	X	270.08729	133.81428	198.12311	11.24225	0.0510083	0.08114367	5.2840422	21	5 13.9	19.4
54626 2000 SJ_{49}	12.3	X	286.00260	135.37427	217.91059	9.78553	0.0626667	0.08417270	5.1565022	21	6 22.2	19.2
54627 2000 SN_{72}	15.8	X	18.88623	173.72071	116.88357	5.56514	0.1404362	0.27814931	2.3242565	21	8 30.6	17.9
54628 2000 SB_{81}	12.9	X	90.17984	102.84691	59.14909	6.13204	0.1404972	0.12491960	3.9632274	21	6 16.9	18.5
54629 2000 SL_{98}	13.8	X	69.09353	201.62166	354.10273	15.62744	0.0567084	0.17631574	3.1497445	21	6 19.5	18.4
54630 2000 SM_{112}	12.9	X	164.75744	251.95783	201.72651	9.01449	0.1370346	0.12438047	3.9746716	21	6 10.9	19.2
54631 2000 SJ_{115}	12.7	X	95.90646	126.56367	28.78316	6.10266	0.0559748	0.12459301	3.9701501	21	6 3.7	18.4
54632 2000 SD_{130}	12.2	X	289.93799	66.58308	261.37933	17.99454	0.1124091	0.08357647	5.1809975	21	5 22.3	19.0
54633 2000 SL_{130}	14.3	X	251.05702	98.57309	293.15760	16.18566	0.0226257	0.18038614	3.1021820	21	7 2.7	18.7
54634 2000 SA_{132}	12.5	X	331.07933	47.07649	261.17189	20.27044	0.1040424	0.08397168	5.1647282	21	6 22.4	19.0
54635 2000 SE_{132}	13.7	X	358.88946	286.52889	303.37022	17.14843	0.1207518	0.17264379	3.1942488	21	4 12.9	18.1
54636 2000 SX_{140}	14.6	X	289.66260	24.24283	213.53693	15.64369	0.2333079	0.21232159	2.7827441	21	1 4.6	19.3
54637 2000 SL_{141}	13.5	X	220.09957	216.54004	234.64400	14.81735	0.1988851	0.17691057	3.1426802	21	7 20.3	18.9
54638 2000 SC_{144}	12.3	X	359.99055	249.16954	25.41535	4.11762	0.0047831	0.08081203	5.2984890	21	6 25.5	19.2
54639 2000 SR_{184}	14.9	X	57.09013	81.44043	185.19500	1.16769	0.1824986	0.18764549	3.0216486	21	9 22.6	19.0
54640 2000 SK_{189}	14.0	X	93.58461	202.67598	299.77570	12.42600	0.1266624	0.17092561	3.2156193	21	5 22.8	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54641 2000 SA_{242}	14.8	X	89.02665	223.57628	342.10700	5.06283	0.1578199	0.23212210	2.6221552	21	8 14.9	18.3
54642 2000 SH_{243}	14.6	X	271.42525	297.75475	15.68397	8.93129	0.0664101	0.17370917	3.1811749	21	4 12.6	19.2
54643 2000 SP_{283}	12.3	X	34.75890	264.96724	325.42138	11.41681	0.0738375	0.08360242	5.1799251	21	6 20.9	19.0
54644 2000 SN_{284}	13.0	X	50.85221	230.32818	306.56547	6.52338	0.0483218	0.12399336	3.9829400	21	5 2.2	18.5
54645 2000 SR_{284}	12.2	X	344.01049	52.54122	235.01117	16.75239	0.0903918	0.08193106	5.2501335	21	6 17.0	18.8
54646 2000 SS_{291}	12.5	X	318.80935	53.18725	259.33202	3.56273	0.1088957	0.08230053	5.2344086	21	6 10.9	19.0
54647 2000 ST_{304}	14.0	X	310.70101	270.90002	353.74378	12.70359	0.2430041	0.17162311	3.2069009	21	3 8.4	18.2
54648 2000 SL_{307}	13.6	X	35.34154	234.84988	322.71421	8.81443	0.0899811	0.16992832	3.2281885	21	5 5.2	18.0
54649 2000 SE_{310}	11.9	X	314.16801	23.28056	290.74961	25.21778	0.1112544	0.08194726	5.2494413	21	6 7.6	18.7
54650 2000 SE_{315}	13.1	X	299.52386	310.94407	337.02344	21.11521	0.0199795	0.17053228	3.2205619	21	4 11.9	18.0
54651 2000 SF_{327}	13.8	X	243.73412	305.48648	55.37526	17.96281	0.1294073	0.17442795	3.1724296	21	5 5.6	18.8
54652 2000 SZ_{344}	12.0	X	302.64105	210.05696	118.52074	17.73710	0.0436264	0.08360787	5.1796999	21	6 18.2	18.8
54653 2000 SB_{350}	12.3	X	284.26451	258.58319	97.71248	16.47371	0.0514900	0.08246892	5.2272808	21	6 25.8	19.0
54654 2000 SW_{355}	14.2	X	4.16846	218.09113	44.49363	17.86207	0.1704184	0.17889452	3.1194021	21	6 11.3	17.8
54655 2000 SQ_{362}	12.2	X	285.48393	213.63871	131.55103	17.44242	0.0926245	0.08443829	5.1456838	21	6 11.5	19.1
54656 2000 SX_{362}	10.7	X	341.00575	178.48219	120.79611	32.81236	0.0785690	0.08110624	5.2856678	21	7 1.2	17.5
54657 2000 SA_{366}	13.0	X	298.14754	231.95264	31.95279	4.90723	0.1197096	0.12494605	3.9626681	21	3 16.7	18.6
54658 2000 TN_{39}	13.8	X	110.14652	149.89852	43.06514	10.15742	0.0310284	0.18231514	3.0802613	21	8 8.3	18.3
54659 2000 TM_{51}	15.3	X	28.68789	106.85690	94.24292	10.17659	0.1578892	0.26387441	2.4073424	21	4 30.7	17.5
54660 2000 UJ_{1}	17.8	X	188.28492	158.00758	223.71191	46.68801	0.2806927	0.54922899	1.4767277	21	2 20.3	20.9
54661 2000 UY_{18}	15.5	X	141.97876	285.30408	268.35561	4.99014	0.1939862	0.27519154	2.3408810	21	9 23.7	19.3
54662 2000 UY_{80}	15.5	X	159.84031	259.82966	270.81893	3.52246	0.0998234	0.27264585	2.3554295	21	9 10.5	19.0
54663 2000 UT_{82}	14.0	X	79.29697	313.37367	276.78267	10.27667	0.2145791	0.18112543	3.0937349	21	9 2.4	18.8
54664 2000 UH_{107}	15.6	X	329.76537	168.77064	110.33099	7.42873	0.1093669	0.26728425	2.3868244	21	5 5.6	18.3
54665 2000 UL_{110}	13.4	X	123.17771	230.31947	75.71370	18.48738	0.2391820	0.19606594	2.9345034	21	—	—
54666 2000 WJ_{6}	15.3	X	115.14528	96.28130	242.62277	4.39976	0.2131511	0.29283793	2.2458694	21	—	—
54667 2000 WJ_{36}	15.3	X	119.49762	90.82471	139.31045	7.44556	0.0756503	0.27492045	2.3424195	21	10 18.8	18.6
54668 2000 WO_{85}	15.7	X	30.58648	279.78234	276.98330	4.82698	0.0741929	0.25881070	2.4386412	21	4 16.9	18.3
54669 2000 WB_{89}	15.4	X	168.77166	145.53577	46.01721	3.17725	0.1776520	0.27640370	2.3340320	21	10 18.2	19.0
54670 2000 WW_{92}	15.7	X	147.88505	51.75835	259.12040	4.50726	0.1576498	0.29292111	2.2454442	21	—	—
54671 2000 WW_{102}	13.5	X	308.53001	9.24199	110.05252	10.69387	0.1825182	0.19043237	2.9920961	21	12 24.3	16.6
54672 2000 WO_{180}	11.7	X	261.49457	287.31587	64.52080	28.12796	0.1393602	0.08123631	5.2800244	21	5 17.8	18.9
54673 2000 WS_{189}	14.3	X	25.77893	155.26245	39.83299	6.65738	0.1953391	0.21090615	2.7951807	21	4 20.7	16.8
54674 2000 XN_{4}	13.1	X	215.42853	185.69348	263.63478	25.86534	0.1400322	0.17446427	3.1719893	21	7 15.4	18.4
54675 2000 XZ_{25}	13.8	X	149.70932	101.88072	334.61556	8.47598	0.1808321	0.21126859	2.7919829	21	5 2.8	18.5
54676 2000 YP_{12}	14.8	X	332.56146	330.39527	119.90664	11.70358	0.2091589	0.23448556	2.6045057	21	—	—
54677 2000 YD_{40}	15.3	X	281.84402	341.55355	101.58520	3.43912	0.0609823	0.22808165	2.6530319	21	10 17.8	18.6
54678 2000 YW_{47}	12.4	X	270.64532	201.75043	274.18795	11.15678	0.0807217	0.08449965	5.1431926	21	10 15.6	19.3
54679 2000 YF_{113}	15.9	X	172.01384	69.14552	321.09604	2.79791	0.1184481	0.30229169	2.1987975	21	3 16.9	19.0
54680 2001 AS_{9}	11.9	X	214.56590	265.28162	268.55890	11.86034	0.0350087	0.08359583	5.1801972	21	10 25.7	19.0
54681 2001 AE_{49}	15.6	X	241.42775	316.78037	55.12515	5.68649	0.0321405	0.26040236	2.4286938	21	5 19.5	18.6
54682 2001 BU_{8}	14.6	X	215.80419	119.14544	95.19686	3.97183	0.1146756	0.18382626	3.0633575	21	12 21.9	19.3
54683 2001 CJ_{20}	15.7	X	258.71601	15.76338	104.74823	24.12145	0.0690097	0.36563617	1.9368825	21	12 5.9	17.7
54684 2001 CS_{20}	15.7	X	289.74947	339.06848	108.41764	25.11417	0.0400159	0.36650775	1.9338106	21	12 10.2	17.8
54685 2001 CT_{33}	14.3	X	314.94075	1.07868	69.58904	14.26305	0.1335292	0.22828628	2.6514463	21	11 15.7	17.1
54686 2001 DU_{8}	16.5	X	268.01349	265.88371	161.70417	33.20635	0.3417292	0.41610446	1.7769197	21	7 31.1	19.0
54687 2001 DC_{15}	14.0	X	77.53587	41.38231	157.68972	24.25629	0.1388281	0.25694017	2.4504624	21	7 18.2	17.5
54688 2001 DZ_{69}	15.7	X	296.96480	319.18582	329.53527	4.85854	0.2167634	0.29606395	2.2295251	21	3 7.2	18.5
54689 2001 DH_{101}	12.1	X	324.46332	39.81986	9.33327	12.89098	0.1166825	0.08293215	5.2077976	21	10 7.1	18.5
54690 2001 EB	17.1	X	306.44150	99.62895	33.52059	35.36108	0.2565966	0.47386427	1.6294214	21	—	—
54691 2001 EL_{6}	14.2	X	102.67279	198.47852	139.33498	12.20286	0.0326237	0.18078264	3.0976444	21	—	—
54692 2001 EJ_{10}	15.9	X	204.25151	235.08421	35.72975	3.65259	0.2233527	0.27914161	2.3187450	21	—	—
54693 Garymyers	15.5	X	99.06986	336.20540	3.05775	3.60437	0.1768276	0.27324162	2.3520045	21	—	—
54694 2001 FJ_{54}	15.7	X	59.75261	220.52370	17.74214	5.74645	0.1330511	0.30246303	2.1979671	21	8 23.0	18.1
54695 2001 FM_{54}	15.1	X	46.23213	271.85553	25.92243	5.37121	0.1948511	0.30607903	2.1806217	21	11 6.1	17.6
54696 2001 FO_{69}	15.7	X	349.81392	149.19211	137.40992	5.98116	0.1925693	0.30052694	2.2073970	21	6 13.2	17.1
54697 2001 FA_{70}	14.9	X	116.86078	129.34834	168.45062	13.09344	0.3317003	0.26800800	2.3825254	21	—	—
54698 2001 FF_{70}	16.2	X	99.75522	252.69764	39.35735	6.56452	0.2842661	0.26570189	2.3962913	21	12 23.3	20.4
54699 2001 FP_{137}	15.0	X	44.13078	229.08180	99.33979	7.07762	0.0517145	0.21641981	2.7475021	21	11 10.4	18.7
54700 2001 FE_{143}	15.7	X	172.82800	160.57249	131.58608	9.05515	0.1928142	0.27525155	2.3405407	21	—	—
54701 2001 FY_{150}	16.3	X	265.06550	89.86350	204.03862	5.01580	0.1801417	0.28849794	2.2683370	21	2 13.1	19.9
54702 2001 FO_{159}	16.0	X	349.55351	161.88838	161.79345	1.26243	0.1914556	0.30523959	2.1846178	21	8 24.1	16.7
54703 2001 FE_{160}	15.7	X	52.94924	88.59233	206.27898	5.49614	0.1194551	0.26191395	2.4193403	21	10 24.3	18.5
54704 2001 FC_{172}	14.3	X	85.82402	217.47914	113.90586	16.50334	0.1555646	0.22095964	2.7097387	21	—	—
54705 2001 GW_{3}	15.3	X	238.34241	229.19600	85.14328	6.99909	0.2003460	0.28590416	2.2820355	21	2 18.4	19.0
54706 2001 HG_{1}	16.0	X	290.41139	231.49266	44.06534	1.22122	0.1663683	0.28989372	2.2610500	21	2 19.1	19.0
54707 2001 HL_{6}	14.5	X	133.35916	79.27493	235.77311	20.83654	0.1994799	0.26973299	2.3723568	21	—	—
54708 2001 HH_{18}	15.4	X	285.96398	255.64377	145.78748	23.74600	0.1156596	0.35479846	1.9761272	21	8 29.6	16.8
54709 2001 HS_{20}	15.5	X	336.39048	281.45397	42.72960	3.07823	0.1649985	0.29972774	2.2113191	21	7 21.5	17.0
54710 2001 HT_{20}	15.7	X	97.86357	233.28137	40.99289	2.68198	0.1896833	0.26138979	2.4225735	21	11 24.6	19.4
54711 2001 HJ_{23}	16.1	X	104.01721	296.14193	22.95091	2.60093	0.2287036	0.27185646	2.3599870	21	—	—
54712 2001 HD_{30}	15.4	X	132.53620	46.08593	233.88905	4.66736	0.1709659	0.26664037	2.3906653	21	12 31.7	19.4
54713 2001 HK_{37}	15.2	X	64.12376	205.55944	65.76620	9.56059	0.1969027	0.25583751	2.4574983	21	10 21.3	18.6
54714 2001 HB_{38}	15.4	X	169.07481	157.35931	141.36490	7.43511	0.1208858	0.27463357	2.3440505	21	—	—
54715 2001 HM_{44}	15.8	X	288.72548	141.30081	214.02676	5.90329	0.1627878	0.30012742	2.2093555	21	6 8.5	18.3
54716 2001 HK_{48}	14.4	X	286.76814	175.75461	81.68101	15.04493	0.1278980	0.24030603	2.5622781	21	2 7.6	18.3
54717 2001 HQ_{60}	15.2	X	240.83440	185.77919	134.31783	12.44870	0.2329368	0.23735162	2.5834967	21	3 2.8	19.6
54718 2001 HB_{61}	15.2	X	161.99458	239.09025	112.83558	13.38273	0.3400650	0.27845010	2.3225824	21	2 9.9	19.2
54719 2001 HS_{67}	15.6	X	178.20657	144.01318	228.98488	2.79792	0.1514879	0.28722533	2.2750323	21	3 4.7	19.0
54720 Kentstevens	16.0	X	46.42365	136.34759	119.10186	4.50131	0.1219292	0.30170101	2.2016665	21	8 24.2	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54721 2001 JX_3	15.7	X	325.94708	235.72285	76.50583	3.80412	0.1719262	0.29700259	2.2248252	21	6 3.8	17.6
54722 2001 JD_{10}	15.3	X	131.71793	115.37738	177.10487	2.99975	0.1722082	0.26507550	2.4000649	21	—	—
54723 2001 KW_1	14.5	X	249.75455	156.72747	168.87640	13.39400	0.2688509	0.23774515	2.5806451	21	3 12.6	18.9
54724 2001 KM_4	15.7	X	120.58007	290.15820	18.13496	2.50843	0.1932498	0.26853120	2.3794297	21	—	—
54725 2001 KT_5	15.9	X	281.65016	80.87237	240.08655	7.42725	0.1854744	0.29244155	2.2478983	21	4 4.9	19.2
54726 2001 KU_9	15.4	X	4.22354	248.91128	98.84200	4.27759	0.2653704	0.25619006	2.4552433	21	11 13.5	17.3
54727 2001 KO_{10}	14.8	X	273.42362	210.35340	79.16744	9.10422	0.1663014	0.23782878	2.5800400	21	3 1.9	18.8
54728 2001 KP_{11}	14.6	X	225.55416	143.58149	205.25052	4.43249	0.3488731	0.23529665	2.5985169	21	3 19.2	19.5
54729 2001 KQ_{13}	14.6	X	284.16711	220.24142	126.89102	6.83938	0.2299556	0.24154459	2.5535116	21	5 16.2	18.2
54730 2001 KR_{13}	14.2	X	295.86673	37.52988	255.70346	15.29904	0.1871829	0.23796261	2.5790726	21	3 16.6	18.3
54731 2001 KJ_{15}	16.0	X	285.93064	142.58114	136.66375	3.55380	0.1431277	0.28803728	2.2707549	21	2 21.8	19.1
54732 2001 KH_{19}	15.6	X	312.16496	323.75769	353.00620	5.47715	0.2426608	0.29693831	2.2251463	21	4 30.6	18.0
54733 2001 KP_{19}	15.4	X	211.26559	77.99935	250.75528	3.04844	0.2295565	0.23379830	2.6096073	21	2 15.6	19.9
54734 2001 KF_{20}	14.8	X	307.73471	155.85687	104.59505	9.02207	0.1122576	0.19125114	2.9835502	21	3 18.9	19.0
54735 2001 KW_{24}	16.0	X	21.47326	248.82052	310.27733	2.98733	0.1012356	0.29185955	2.2508857	21	3 30.5	18.0
54736 2001 KC_{26}	16.1	X	142.70908	345.60761	290.48065	4.35652	0.1288917	0.26790414	2.3831412	21	—	—
54737 2001 KM_{27}	14.6	X	209.89604	276.64372	58.12087	13.16397	0.1711353	0.23360379	2.6110556	21	3 1.5	19.1
54738 2001 KZ_{27}	15.8	X	328.22479	185.31454	70.02767	3.84167	0.1957691	0.29010790	2.2599371	21	3 9.7	18.1
54739 2001 KC_{31}	15.8	X	1.37573	194.27932	86.01106	4.07956	0.1971647	0.29708023	2.2244375	21	7 4.1	17.0
54740 2001 KN_{31}	14.9	X	252.97850	159.68100	72.26250	24.81525	0.1077667	0.27868832	2.3212586	21	—	—
54741 2001 KT_{31}	15.9	X	273.38753	117.65809	152.13418	7.20196	0.1002734	0.28452020	2.2894297	21	1 30.3	19.0
54742 2001 KS_{34}	15.3	X	77.10294	137.72971	197.12884	5.86428	0.0835385	0.21794067	2.7347053	21	12 30.4	19.4
54743 2001 KQ_{36}	15.9	X	257.23286	174.03770	98.01504	5.68806	0.0170012	0.28366276	2.2940409	21	1 22.4	18.7
54744 2001 KK_{37}	14.6	X	43.24872	102.24498	192.42713	5.08735	0.2979706	0.20456741	2.8526276	21	10 30.6	18.3
54745 2001 KS_{38}	15.3	X	242.56048	220.78371	126.82206	5.61231	0.2738792	0.23891002	2.5722498	21	4 4.1	19.8
54746 2001 KE_{39}	14.7	X	268.26085	72.07938	202.70274	12.34800	0.1276902	0.23469618	2.6029473	21	2 2.8	18.9
54747 2001 KB_{42}	15.6	X	67.61765	207.52842	114.94993	7.37178	0.1494204	0.26283056	2.4137122	21	12 21.5	19.1
54748 2001 KO_{44}	15.0	X	318.85599	86.42987	204.84661	12.28903	0.1543397	0.24396343	2.5366053	21	4 28.1	17.8
54749 2001 KR_{45}	15.6	X	329.84234	76.71126	163.83920	6.15436	0.1268797	0.28860565	2.2677725	21	2 28.2	17.9
54750 2001 KW_{45}	13.3	X	111.61269	110.26306	228.58968	17.29088	0.1728192	0.17009651	3.2260600	21	—	—
54751 2001 KO_{46}	15.7	X	148.69954	167.09415	122.46033	7.31503	0.0913531	0.26938937	2.3743737	21	—	—
54752 2001 KL_{48}	15.8	X	175.85329	254.35691	26.28210	7.11887	0.1150566	0.27336201	2.3513139	21	—	—
54753 2001 KZ_{48}	15.5	X	237.83103	287.15274	73.07303	3.90978	0.1730098	0.29034715	2.2586954	21	4 16.7	18.8
54754 2001 KJ_{56}	14.1	X	19.33477	290.14886	106.41268	22.84808	0.3548679	0.26371878	2.4082894	21	—	—
54755 2001 KZ_{56}	14.4	X	137.93033	12.58053	147.12030	11.74438	0.0728205	0.20593946	2.8399433	21	7 30.0	18.6
54756 2001 KJ_{58}	14.5	X	249.66995	145.65302	178.50121	10.64290	0.1276994	0.19035960	2.9928585	21	3 25.4	19.2
54757 2001 KY_{58}	15.5	X	204.00586	155.89377	118.68436	7.95011	0.1626890	0.27463010	2.3440702	21	—	—
54758 2001 KP_{59}	14.4	X	286.07025	94.87926	240.55724	10.87033	0.2139070	0.23995933	2.5647456	21	5 1.9	18.0
54759 2001 KA_{60}	14.4	X	272.47571	137.45922	245.34300	12.68414	0.1762484	0.24245970	2.5470825	21	6 23.6	18.0
54760 2001 KD_{60}	14.6	X	188.70628	163.94443	209.54055	12.01239	0.2623043	0.22902727	2.6457243	21	3 23.3	19.4
54761 2001 KJ_{66}	15.9	X	48.05888	220.28921	115.84020	3.51183	0.2282922	0.26186286	2.4196550	21	12 26.6	19.2
54762 2001 KL_{73}	14.8	X	162.75002	89.95437	284.26721	11.78248	0.2019228	0.22635423	2.6665126	21	2 26.0	19.3
54763 2001 KQ_{75}	14.8	X	210.23351	101.14290	224.27165	14.38366	0.1685356	0.22823700	2.6518280	21	2 7.3	19.5
54764 2001 LB_4	15.4	X	321.60624	230.55101	112.66700	5.35145	0.2160675	0.29593016	2.2301970	21	7 10.0	16.9
54765 2001 LB_5	15.1	X	232.68396	188.62511	204.73144	12.75181	0.2174560	0.23779430	2.5802894	21	5 24.2	19.5
54766 2001 LT_5	15.5	X	105.47003	254.00891	44.14411	1.97977	0.1791953	0.26176257	2.4202730	21	12 30.1	19.4
54767 2001 LW_6	15.4	X	154.83710	330.47224	38.92669	6.86719	0.1270708	0.27594099	2.3366405	21	2 6.9	18.7
54768 2001 LA_8	15.0	X	119.54459	100.80890	208.22670	8.32235	0.1696638	0.21397259	2.7684113	21	—	—
54769 2001 LJ_8	14.6	X	38.13988	356.56628	275.36185	14.02625	0.0696893	0.24543581	2.5264503	21	8 14.6	17.9
54770 2001 LS_{10}	15.0	X	109.11084	152.13470	169.74314	6.61096	0.2075053	0.26494180	2.4008723	21	—	—
54771 2001 LJ_{12}	14.7	X	280.03965	11.23938	278.76607	13.10163	0.0879191	0.23431399	2.6057769	21	3 7.7	18.6
54772 2001 LN_{12}	15.2	X	341.78248	107.13077	263.75402	5.92034	0.1622851	0.30047941	2.2076297	21	10 23.9	16.7
54773 2001 LP_{12}	15.3	X	62.44481	197.39397	136.29273	13.38102	0.1930412	0.25805184	2.4434197	21	—	—
54774 2001 LY_{14}	14.6	X	42.78991	238.34616	118.53097	13.78049	0.1370805	0.20923527	2.8100418	21	12 23.9	18.5
54775 2001 LK_{16}	15.1	X	346.93168	59.50714	239.67979	5.78142	0.0746429	0.24590157	2.5232591	21	7 5.8	17.9
54776 2001 LL_{16}	15.1	X	273.09607	114.40740	226.68027	4.93170	0.0864616	0.24078114	2.5589064	21	5 12.7	18.5
54777 2001 LF_{17}	15.8	X	163.97252	202.91326	155.06499	2.44860	0.1946338	0.27573437	2.3378077	21	2 5.8	19.1
54778 2001 LP_{17}	15.2	X	351.07978	43.93104	279.47132	6.54661	0.1777635	0.29590941	2.2303013	21	8 22.3	16.8
54779 2001 LS_{17}	14.8	X	70.31652	47.61318	280.02525	5.24817	0.1387435	0.25911858	2.4367091	21	12 28.8	18.3
54780 2001 LW_{18}	15.8	X	38.83046	125.08348	204.70058	7.35684	0.0631743	0.30500267	2.1857490	21	11 21.5	18.3
54781 2001 LA_{19}	14.9	X	29.03054	171.96386	224.47527	8.79968	0.2353794	0.25881120	2.4386380	21	—	—
54782 2001 LJ_{19}	14.3	X	67.56251	204.47100	166.31258	8.43740	0.2297561	0.21178099	2.7874777	21	—	—
54783 2001 MM_1	15.9	X	166.02773	172.60665	57.55358	3.30342	0.1534146	0.26237350	2.4165145	21	12 1.1	19.7
54784 2001 MW_3	15.0	X	189.31025	359.22393	262.19451	9.42470	0.2736039	0.27210917	2.3585256	21	—	—
54785 2001 MZ_3	15.8	X	187.76872	61.71980	269.07098	6.48705	0.1401272	0.27967326	2.3158055	21	1 20.2	19.2
54786 2001 MJ_4	15.8	X	319.90136	224.66375	91.29364	7.84663	0.1591104	0.29100949	2.2552669	21	6 1.5	17.9
54787 2001 MO_5	15.3	X	305.84510	199.50647	239.44188	8.01498	0.1446039	0.25230361	2.4803925	21	11 12.9	17.5
54788 2001 MZ_6	15.3	X	262.68248	34.88148	290.49827	24.47077	0.1735380	0.28345132	2.2951816	21	3 10.3	19.4
54789 2001 MZ_7	15.0	X	285.71513	20.04395	130.08312	24.47046	0.2876565	0.41648152	1.7758471	21	—	—
54790 2001 MT_8	14.6	X	212.51488	295.03575	114.37898	14.55047	0.1727844	0.23678012	2.5876522	21	5 30.9	19.0
54791 2001 ME_9	14.6	X	195.44723	88.88695	287.05228	11.82666	0.2018676	0.22895332	2.6462940	21	3 26.2	19.4
54792 2001 MJ_9	14.5	X	80.39474	158.17976	265.41892	7.81503	0.1358818	0.21927139	2.7236298	21	1 18.4	17.7
54793 2001 MD_{10}	14.9	X	235.84418	88.84058	285.80024	9.61124	0.2727166	0.23723325	2.5843560	21	4 25.8	19.7
54794 2001 MN_{10}	15.2	X	52.69159	92.99648	271.34682	4.62933	0.0635664	0.26224219	2.4173211	21	—	—
54795 2001 MV_{10}	15.5	X	292.58381	303.52804	68.65445	6.11824	0.1315957	0.24591219	2.5231864	21	7 16.2	18.5
54796 2001 MW_{10}	15.1	X	105.83060	224.34629	43.07110	4.87999	0.1630871	0.25849645	2.4406171	21	11 21.2	19.0
54797 2001 MR_{12}	14.4	X	159.93079	324.26624	79.46204	8.11354	0.2957225	0.22711979	2.6605172	21	4 14.3	19.2
54798 2001 ME_{14}	14.1	X	225.70579	43.37788	304.48713	5.32195	0.1463552	0.18198956	3.0839340	21	3 27.4	19.1
54799 2001 MR_{14}	14.5	X	80.47348	249.42641	140.33668	9.13599	0.3085459	0.21374116	2.7704093	21	1 2.3	17.3
54800 2001 MC_{15}	14.9	X	257.75781	45.88581	336.49542	1.71436	0.2574114	0.23905368	2.5712192	21	5 28.3	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54801 2001 MT_{17}	15.8	X	222.28469	274.58421	330.90991	1.73129	0.1693765	0.27196847	2.3593390	21	—	—
54802 2001 ME_{19}	14.2	X	31.17898	171.22000	251.98725	11.92403	0.2713207	0.21147419	2.7901730	21	—	—
54803 2001 MK_{19}	15.3	X	281.02519	239.54154	317.89364	5.51373	0.1952900	0.27469276	2.3437138	21	—	—
54804 2001 MT_{21}	16.4	X	352.00916	220.11948	25.85006	2.03745	0.1025401	0.28916849	2.2648290	21	4 19.2	18.4
54805 2001 MW_{22}	14.1	X	94.91006	310.34173	105.51609	18.69350	0.1371857	0.17600088	3.1534999	21	2 12.3	18.5
54806 2001 MX_{22}	13.7	X	206.85793	313.55674	304.55317	16.64084	0.1621370	0.17258844	3.1949317	21	—	—
54807 2001 MZ_{23}	14.7	X	91.99531	48.62072	314.14924	21.76412	0.2238721	0.26330739	2.4107972	21	—	—
54808 2001 ME_{24}	12.2	X	148.06249	114.09688	297.42870	25.05285	0.2477234	0.17606559	3.1527272	21	3 28.4	18.0
54809 2001 MN_{24}	14.9	X	212.16863	109.30400	223.59837	12.76163	0.1240939	0.22909423	2.6452088	21	2 18.2	19.3
54810 Molleigh	15.1	X	155.64320	74.28924	148.03262	9.47628	0.2068314	0.26062551	2.4273073	21	11 13.9	19.3
54811 2001 MJ_{26}	15.0	X	52.15521	144.35485	232.83075	6.01544	0.1580757	0.26364150	2.4087600	21	—	—
54812 2001 MQ_{26}	15.1	X	67.79773	120.69746	191.62767	7.99709	0.1452772	0.20925017	2.8099084	21	11 30.0	19.3
54813 2001 MV_{27}	16.8	X	285.91455	142.98926	228.13136	1.71970	0.1242186	0.29436819	2.2380793	21	7 4.7	19.4
54814 2001 MK_{28}	15.2	X	223.51027	235.66364	110.42335	3.08219	0.1496009	0.23130127	2.6283551	21	3 22.6	19.4
54815 2001 MS_{28}	15.1	X	310.26792	169.73678	194.36721	15.91425	0.2254112	0.24427390	2.5344555	21	7 14.0	18.3
54816 2001 MC_{30}	14.6	X	221.30025	69.09056	285.88960	4.44795	0.1619474	0.18448245	3.0560891	21	3 31.2	19.6
54817 2001 NB	13.8	X	293.46120	100.43592	258.22014	17.45195	0.2243102	0.24069469	2.5595191	21	6 11.6	17.0
54818 2001 NR	15.5	X	202.52572	203.26719	100.68812	5.20029	0.2704001	0.27556451	2.3387683	21	1 8.5	19.4
54819 2001 NA_1	15.1	X	49.02119	296.99791	87.25494	7.49539	0.2044053	0.26213508	2.4179795	21	—	—
54820 Svenders	14.3	X	169.11672	211.37382	138.18601	10.05063	0.2212622	0.22515032	2.6760096	21	2 9.2	18.7
54821 2001 NB_2	16.0	X	95.60270	44.37832	298.48844	0.76828	0.2558750	0.26429209	2.4048054	21	—	—
54822 2001 NQ_2	14.0	X	280.33111	40.89576	131.06442	15.69311	0.0390971	0.16938335	3.2351089	21	—	—
54823 2001 NN_3	15.4	X	64.61834	273.14360	119.13670	3.04662	0.1929363	0.26542713	2.3979448	21	—	—
54824 2001 NJ_5	16.1	X	274.54854	106.31443	75.59514	4.26630	0.1101536	0.26981632	2.3718683	21	—	—
54825 2001 NE_7	14.3	X	37.64810	40.88673	317.14598	8.82626	0.1205377	0.15771898	3.3927101	21	12 4.1	19.0
54826 2001 NV_7	15.2	X	10.61349	94.66989	301.10488	5.84294	0.1267505	0.25946368	2.4345479	21	—	—
54827 Kurpfalz	15.4	X	92.65651	292.59439	83.96747	3.12820	0.2096864	0.26701457	2.3884312	21	—	—
54828 2001 NJ_9	14.9	X	194.26434	252.69321	154.42291	5.94524	0.3211486	0.23408887	2.6074473	21	5 9.9	19.8
54829 2001 NF_{10}	15.2	X	283.99969	58.34383	314.60765	12.69706	0.2026743	0.24340467	2.5404859	21	6 23.1	18.7
54830 2001 NC_{11}	15.0	X	142.96437	72.08871	262.17931	4.11693	0.1064244	0.22047165	2.7137357	21	—	—
54831 2001 NE_{11}	16.2	X	173.97908	214.23219	144.95805	7.08747	0.1326427	0.27680009	2.3318032	21	2 12.0	19.6
54832 2001 NL_{12}	15.1	X	313.91710	46.68481	288.12169	3.63419	0.0667428	0.24467443	2.5316888	21	7 5.0	17.8
54833 2001 NW_{12}	15.4	X	30.54359	231.08232	30.88354	2.39778	0.0724710	0.24634464	2.5202327	21	7 26.8	18.2
54834 2001 NH_{18}	14.7	X	206.35580	70.63424	206.02025	13.12112	0.1505835	0.22258552	2.6965270	21	—	—
54835 2001 NU_{18}	14.7	X	138.51053	165.39863	260.35034	13.25445	0.0949537	0.23023827	2.6364389	21	3 26.1	18.8
54836 2001 NA_{20}	15.9	X	303.17171	287.88171	318.92724	2.40383	0.1277822	0.28301104	2.2975614	21	2 1.8	18.9
54837 2001 NK_{20}	13.8	X	151.93562	226.55183	185.02194	23.07332	0.2206148	0.17862508	3.1225382	21	4 14.5	19.1
54838 2001 NO_{21}	15.2	X	164.02188	245.77090	188.65525	6.36757	0.2257663	0.23030242	2.6359493	21	5 18.8	19.7
54839 2001 NQ_{21}	13.7	X	47.55174	91.06712	316.40700	8.22465	0.1515517	0.21184827	2.7868875	21	—	—
54840 2001 OE	14.7	X	164.97087	229.66045	168.95717	16.73860	0.0977765	0.18167333	3.0875116	21	4 3.9	19.5
54841 2001 OD_2	16.1	X	212.30277	242.83578	7.90385	6.10626	0.0957704	0.26948120	2.3738343	21	—	—
54842 2001 OF_2	14.4	X	237.20627	46.70688	245.03914	11.15968	0.1932191	0.17830538	3.1262695	21	1 28.8	19.8
54843 2001 OX_2	14.7	X	145.86586	206.98749	127.15364	2.73475	0.1619726	0.17096418	3.2151356	21	1 4.7	19.7
54844 2001 OY_2	14.6	X	286.32812	206.45631	122.89419	10.84921	0.0813627	0.19087245	2.9874952	21	5 21.5	18.9
54845 2001 OF_3	14.8	X	226.39476	1.53409	324.74972	6.61190	0.1331652	0.27885709	2.3203220	21	2 21.7	18.3
54846 2001 OJ_5	14.3	X	241.42422	101.41489	284.83290	12.01104	0.2063562	0.23644492	2.5900972	21	5 21.6	18.6
54847 2001 OM_5	13.8	X	163.42410	292.37375	188.98898	13.37316	0.1140272	0.24014306	2.5634372	21	7 9.8	18.0
54848 2001 OC_8	14.5	X	40.41899	357.02361	294.31749	9.53636	0.0664029	0.19915539	2.9040762	21	9 10.7	18.5
54849 2001 OM_8	15.2	X	111.64905	140.47840	187.53617	2.29760	0.1742100	0.26392635	2.4070266	21	—	—
54850 2001 OZ_{11}	13.5	X	251.51918	309.87039	66.21228	9.35156	0.2110710	0.18631501	3.0360166	21	5 21.8	18.3
54851 2001 OA_{15}	14.6	X	213.85186	349.35826	10.01541	11.13836	0.0859201	0.18420232	3.0591867	21	4 3.0	19.3
54852 Mercatali	16.7	X	164.46414	49.92373	212.94091	2.24107	0.0784416	0.31374688	2.1449464	21	—	—
54853 2001 OQ_{19}	15.4	X	58.39234	354.04538	5.17989	0.79959	0.2041347	0.26039496	2.4287399	21	—	—
54854 2001 OU_{20}	13.4	X	171.14050	112.64294	262.52169	18.32728	0.1514217	0.17607513	3.1526133	21	3 5.0	18.9
54855 2001 OA_{21}	13.6	X	114.12401	87.18066	340.21170	14.81302	0.2079722	0.17236220	3.1977269	21	3 23.3	18.5
54856 2001 OF_{21}	14.2	X	94.57431	16.82628	335.83318	3.75767	0.0844647	0.21183112	2.7870379	21	—	—
54857 2001 OY_{22}	14.1	X	237.53985	64.62328	208.62718	29.01780	0.3453662	0.22593559	2.6698055	21	—	—
54858 2001 OE_{24}	14.9	X	211.97385	145.47690	110.90774	15.40787	0.0566814	0.22018524	2.7160885	21	—	—
54859 2001 OG_{24}	15.6	X	196.76526	82.80957	155.87681	5.41300	0.1698747	0.26696892	2.3887035	21	—	—
54860 2001 OZ_{24}	15.1	X	136.55576	141.84629	236.94983	6.18791	0.1514906	0.27221268	2.3579277	21	1 27.4	18.2
54861 2001 OJ_{25}	14.6	X	233.74313	57.64882	294.01160	11.33956	0.2942080	0.23335952	2.6128774	21	3 24.5	19.6
54862 Sundaigakuen	15.2	X	12.42946	15.32032	14.69706	4.94983	0.1877395	0.25669718	2.4520085	21	—	—
54863 Gasnault	15.3	X	223.24820	335.49159	72.31184	5.19308	0.0967889	0.24042660	2.5614214	21	6 9.7	19.0
54864 2001 OP_{28}	14.7	X	274.29126	299.78988	68.41175	10.98077	0.0597950	0.19340065	2.9614025	21	6 25.1	18.8
54865 2001 OZ_{33}	14.7	X	114.12210	259.71872	80.86224	9.82451	0.1937481	0.21604572	2.7506729	21	—	—
54866 2001 OO_{39}	14.0	X	351.62097	182.52824	106.42958	11.02371	0.0518571	0.19130801	2.9829589	21	6 30.7	17.8
54867 2001 OS_{39}	14.2	X	32.95548	5.55983	114.80343	16.00554	0.0217051	0.22247416	2.6974268	21	1 15.4	17.8
54868 2001 OS_{40}	15.6	X	136.68401	316.98118	89.95642	7.38769	0.0961586	0.27496063	2.3421913	21	3 3.5	18.7
54869 2001 OP_{43}	13.7	X	265.31874	313.53926	316.52058	8.44942	0.0438397	0.17384067	3.1795705	21	2 14.9	18.4
54870 2001 OT_{43}	14.8	X	81.92639	159.55970	191.12575	3.29127	0.0915872	0.20928664	2.8095820	21	—	—
54871 2001 OH_{44}	13.7	X	95.45254	201.94611	298.86384	9.16029	0.0234871	0.18137879	3.0908532	21	5 6.3	18.1
54872 2001 OW_{46}	14.9	X	113.87684	149.18588	222.14191	4.16483	0.1663008	0.17076204	3.2176724	21	1 14.4	19.6
54873 2001 OC_{47}	15.7	X	11.39151	249.56801	127.91989	7.34797	0.1464530	0.25633148	2.4543402	21	12 19.1	18.5
54874 2001 OQ_{47}	15.1	X	97.20346	194.68136	135.90606	4.99316	0.1050133	0.21268933	2.7795357	21	—	—
54875 2001 OT_{47}	14.4	X	122.17282	211.15156	217.31534	3.06337	0.2085912	0.22572823	2.6714402	21	3 31.1	18.3
54876 2001 OU_{47}	15.3	X	39.86624	44.29491	279.52264	5.99486	0.1288078	0.30290800	2.1958140	21	11 22.9	17.7
54877 2001 OU_{51}	15.1	X	11.53157	187.41301	21.41384	7.30142	0.0470935	0.28596445	2.2817147	21	4 2.5	17.5
54878 2001 OB_{53}	14.9	X	175.25140	267.91062	108.85380	15.66132	0.1449588	0.22805012	2.6532765	21	3 20.9	19.4
54879 2001 OO_{54}	15.5	X	197.42581	347.04248	50.61339	5.45892	0.2431620	0.23392866	2.6086376	21	4 29.7	20.0
54880 2001 OT_{54}	15.7	X	99.29066	307.26956	48.94517	2.82972	0.2059835	0.26541323	2.3980285	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54881 2001 OV_{54}	15.7	X	178.19975	263.22257	318.16096	17.02998	0.0581966	0.36000501	1.9570279	21	—	—
54882 2001 OK_{57}	14.6	X	179.83385	325.95349	124.42078	10.05896	0.0713502	0.19054556	2.9909110	21	6 19.5	19.2
54883 2001 OS_{57}	13.8	X	222.20914	145.37391	32.65530	2.42166	0.0122524	0.20449585	2.8532931	21	12 1.5	17.8
54884 2001 OW_{58}	14.3	X	30.00987	352.15170	40.12137	2.73665	0.0774036	0.20718480	2.8285517	21	—	—
54885 2001 OH_{61}	15.9	X	169.96695	269.19228	141.67609	7.14793	0.0959711	0.28230558	2.3013874	21	4 15.9	19.2
54886 2001 OO_{61}	16.0	X	200.18831	27.45659	7.21011	5.44298	0.1296858	0.28395480	2.2924678	21	4 23.6	19.5
54887 2001 OG_{63}	14.3	X	116.70193	335.05342	37.98648	0.76604	0.2372089	0.16934007	3.2356601	21	1 29.7	19.1
54888 2001 OS_{63}	14.4	X	259.96923	276.53871	113.07428	11.04037	0.1136876	0.19326023	2.9628367	21	6 27.8	18.6
54889 2001 OZ_{63}	16.0	X	38.73511	155.50576	67.71027	4.03460	0.1134543	0.29103250	2.2551480	21	6 15.3	17.8
54890 2001 OS_{65}	15.8	X	96.91249	216.59281	118.38675	2.21090	0.1373122	0.26315976	2.4116987	21	—	—
54891 2001 OP_{66}	14.9	X	94.56108	260.47107	48.29526	8.88860	0.1977166	0.25944358	2.4346737	21	—	—
54892 2001 OW_{68}	14.6	X	211.88244	9.08739	303.39127	12.51153	0.1697236	0.22456350	2.6806695	21	1 29.6	19.0
54893 2001 OR_{69}	13.3	X	140.07198	255.44580	148.38562	23.58111	0.1136526	0.17568325	3.1572997	21	3 18.5	18.2
54894 2001 OX_{69}	15.0	X	305.55970	334.17609	3.70966	3.65963	0.2298426	0.24050631	2.5608554	21	5 29.5	18.0
54895 2001 OO_{70}	15.3	X	293.95883	23.90352	333.68963	3.84062	0.2261660	0.24058967	2.5602639	21	6 10.2	18.6
54896 2001 OP_{70}	13.9	X	231.19789	46.03561	328.24489	21.85098	0.0659502	0.23459899	2.6036661	21	4 26.7	18.2
54897 2001 OY_{71}	14.2	X	34.87070	301.66078	353.56998	1.36310	0.0799360	0.19549554	2.9402087	21	9 14.3	17.8
54898 2001 OP_{72}	14.7	X	88.00169	18.09280	342.48823	10.80979	0.0990667	0.26097937	2.4251127	21	—	—
54899 2001 OT_{72}	14.2	X	187.16708	28.85104	333.26127	11.87472	0.2551892	0.22524230	2.6752811	21	3 8.9	18.9
54900 2001 OL_{74}	13.8	X	95.90779	278.59408	20.49155	9.26571	0.1206656	0.20595858	2.8397675	21	12 8.1	18.2
54901 2001 OX_{75}	15.8	X	146.49011	358.10976	330.56933	10.23642	0.1107722	0.27058741	2.3673601	21	—	—
54902 Close	15.4	X	78.09000	311.28449	130.63129	2.97758	0.1802643	0.27171942	2.3607804	21	2 2.3	17.5
54903 2001 OV_{77}	15.9	X	123.00160	117.17542	321.22205	6.10256	0.0891707	0.28150698	2.3057379	21	3 20.3	18.8
54904 2001 OZ_{78}	14.7	X	32.00672	318.79118	114.28002	7.20154	0.0298003	0.21521712	2.7577285	21	—	—
54905 2001 OA_{80}	15.7	X	98.06254	239.76241	309.00139	10.77635	0.1548447	0.24450885	2.5328317	21	8 2.1	19.3
54906 2001 OT_{80}	13.2	X	258.14917	128.58390	294.08425	12.03740	0.1570887	0.24046062	2.5611798	21	8 1.1	16.8
54907 2001 OW_{80}	14.1	X	287.27631	68.87456	259.32000	12.18020	0.0714974	0.23446286	2.6046738	21	5 15.6	17.7
54908 2001 OY_{80}	13.2	X	119.16450	352.75295	272.47181	11.70786	0.0645971	0.20270218	2.8701005	21	11 16.8	17.6
54909 2001 OP_{81}	15.5	X	177.52967	221.55451	108.30370	3.27654	0.1690124	0.27344543	2.3508356	21	1 13.4	19.0
54910 2001 OC_{83}	16.0	X	321.60451	318.81491	69.58901	7.05819	0.0909173	0.29985394	2.2106986	21	10 14.8	18.0
54911 2001 OM_{83}	13.7	X	198.06804	285.92401	103.70281	13.90751	0.2738269	0.18214933	3.0821303	21	4 28.5	19.4
54912 2001 OX_{86}	14.1	X	215.36534	206.26149	154.25784	12.43614	0.0815993	0.18068422	3.0987692	21	4 10.2	18.9
54913 2001 OY_{87}	15.0	X	175.24134	1.37406	89.36832	14.20002	0.2007649	0.23308477	2.6149303	21	6 15.9	19.2
54914 2001 OS_{88}	16.2	X	229.19224	111.11818	327.51792	2.05736	0.1286543	0.29396487	2.2401259	21	7 26.3	19.0
54915 2001 OE_{89}	15.0	X	124.16667	271.50424	84.87013	3.08718	0.1034566	0.21935214	2.7229613	21	—	—
54916 2001 OD_{92}	15.6	X	214.57754	354.14247	356.88543	7.41498	0.0894814	0.28195469	2.3032965	21	3 14.3	18.9
54917 2001 OL_{92}	15.2	X	234.62405	343.09464	64.37635	7.42922	0.1443479	0.24151092	2.5537489	21	6 17.6	19.0
54918 2001 OC_{94}	15.6	X	332.86841	18.21652	325.93529	1.31492	0.1604268	0.24605563	2.5222057	21	8 12.5	18.0
54919 2001 OH_{94}	15.0	X	128.25995	38.18169	20.25165	4.04269	0.0751985	0.22814523	2.6525391	21	3 9.9	18.5
54920 2001 OJ_{95}	15.0	X	228.32564	274.09877	75.54515	2.22787	0.1908137	0.18527332	3.0473860	21	4 1.9	20.0
54921 2001 OL_{95}	15.1	X	39.72536	10.99309	305.82549	6.75883	0.1228070	0.20531425	2.8457057	21	10 23.4	18.8
54922 2001 OO_{95}	15.8	X	7.79947	7.79332	39.22087	1.82492	0.1762071	0.25951209	2.4342452	21	—	—
54923 2001 OL_{96}	14.3	X	162.62377	209.31243	182.58333	15.09577	0.1224128	0.22533152	2.6745748	21	3 18.9	18.2
54924 2001 OA_{97}	15.6	X	154.48444	297.89759	70.17525	4.81867	0.2690604	0.22290032	2.6939876	21	2 24.6	20.2
54925 2001 OT_{98}	15.2	X	16.67475	2.99056	315.69194	7.57157	0.1694908	0.29664536	2.2266110	21	10 10.8	17.4
54926 2001 OZ_{99}	15.3	X	175.60839	67.50444	346.10356	1.92752	0.0946469	0.23439918	2.6051456	21	4 26.0	19.0
54927 2001 OD_{100}	13.9	X	225.43591	30.65121	319.33591	9.69400	0.1210273	0.18367469	3.0650426	21	3 28.8	18.8
54928 2001 OF_{100}	14.9	X	164.94468	268.85854	96.95023	1.79208	0.1228987	0.17693020	3.1424478	21	2 24.7	19.9
54929 2001 OZ_{101}	14.1	X	317.18187	56.38581	309.54328	11.53417	0.2001958	0.24140980	2.5544621	21	8 6.9	16.4
54930 2001 OM_{102}	14.5	X	317.73988	219.91670	157.23800	12.14163	0.1389997	0.19776004	2.9177206	21	8 29.6	17.9
54931 2001 OY_{102}	13.7	X	228.14773	113.28431	305.80997	12.77481	0.1742019	0.23583461	2.5945638	21	6 25.0	17.8
54932 2001 OH_{103}	14.8	X	202.13705	307.16699	54.55094	1.78226	0.1747559	0.18093342	3.0959233	21	3 25.8	20.0
54933 2001 OV_{103}	14.4	X	26.96712	351.65485	309.07119	11.15089	0.1539210	0.24501804	2.5293213	21	9 19.5	17.4
54934 2001 OH_{105}	13.7	X	185.37426	155.20789	292.15170	10.08909	0.0471276	0.23577609	2.5949931	21	6 20.9	17.4
54935 2001 OY_{105}	15.5	X	19.39041	15.55583	230.64930	9.86282	0.1476059	0.28981441	2.2614625	21	6 16.1	17.3
54936 2001 OA_{106}	14.9	X	218.88979	357.10299	333.46425	5.61865	0.2608196	0.27557230	2.3387242	21	2 20.5	19.0
54937 2001 OH_{106}	13.9	X	83.10410	204.37603	276.37764	12.17878	0.1193550	0.22567670	2.6718469	21	3 30.7	17.6
54938 2001 OG_{107}	15.2	X	219.30528	11.00891	292.19819	5.61208	0.1122537	0.27229892	2.3574298	21	1 18.1	18.5
54939 2001 OP_{107}	14.7	X	337.54341	351.29240	7.86240	2.99321	0.1167453	0.24427654	2.5344373	21	9 16.8	17.1
54940 2001 OQ_{107}	14.9	X	322.05732	271.31240	89.92343	5.08339	0.1866961	0.24613678	2.5216514	21	8 15.1	17.1
54941 2001 OA_{108}	13.1	X	130.76777	137.24003	295.59295	10.62313	0.1669284	0.22385223	2.6863448	21	4 4.9	17.4
54942 2001 OC_{111}	14.8	X	292.35509	172.52889	58.08812	10.30356	0.0653807	0.22268530	2.6957214	21	1 20.8	18.7
54943 2001 PC_{1}	15.1	X	101.19258	208.48679	148.28606	4.88542	0.1115529	0.21819352	2.7325922	21	—	—
54944 2001 PV_{1}	16.4	X	251.39761	358.60507	29.32112	4.04143	0.0894908	0.29096379	2.2555031	21	6 15.8	19.2
54945 2001 PF_{2}	14.6	X	14.34641	206.41504	331.82816	13.55534	0.0464675	0.23014120	2.6371801	21	3 1.7	17.9
54946 2001 PO_{2}	15.6	X	118.78743	179.13456	217.41903	6.02121	0.1000539	0.27234319	2.3571743	21	1 20.4	18.5
54947 2001 PM_{3}	13.4	X	125.07484	220.05972	202.10403	16.48105	0.1629392	0.17462847	3.1700006	21	3 25.5	18.3
54948 2001 PP_{3}	16.3	X	238.10107	173.79190	220.71882	5.48342	0.0495500	0.29014374	2.2597509	21	6 13.1	19.2
54949 2001 PR_{3}	14.6	X	127.09255	252.56035	156.31678	12.58919	0.1843527	0.22764229	2.6564445	21	3 10.5	18.4
54950 2001 PF_{5}	15.7	X	297.58768	274.93598	78.96536	7.73612	0.1270400	0.24236487	2.5477468	21	6 27.4	18.7
54951 2001 PH_{6}	14.1	X	200.73876	268.20790	77.45642	2.18124	0.1517837	0.17778826	3.1323287	21	3 6.8	19.3
54952 2001 PL_{6}	14.9	X	226.34198	335.63345	101.28482	3.16649	0.0889895	0.24167301	2.5526070	21	7 23.5	18.6
54953 2001 PS_{6}	14.9	X	112.74932	55.49092	324.03931	6.44865	0.1453656	0.21810802	2.7333062	21	1 11.9	18.5
54954 2001 PU_{6}	15.4	X	149.65882	6.50154	325.56261	6.24352	0.1380236	0.26802201	2.3824424	21	—	—
54955 2001 PL_{7}	15.1	X	266.05245	229.10861	13.38175	3.51992	0.0541455	0.22160469	2.7044778	21	1 4.9	19.0
54956 2001 PQ_{7}	13.7	X	311.38293	23.94756	123.65007	22.95076	0.0193248	0.16896334	3.2404680	21	—	—
54957 2001 PT_{7}	15.6	X	101.29731	197.92224	44.21308	6.78805	0.1731961	0.30233113	2.1986063	21	10 23.2	18.6
54958 2001 PK_{8}	15.7	X	312.43101	283.80741	24.72604	8.76416	0.1539628	0.28904736	2.2654616	21	5 5.8	18.3
54959 2001 PS_{8}	13.9	X	26.18312	333.49152	150.71297	13.15498	0.1086966	0.17015067	3.2253755	21	1 21.2	18.0
54960 2001 PE_{10}	15.5	X	62.91314	242.27013	129.78888	2.25194	0.1364814	0.26223381	2.4173726	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
54961 2001 PX_{10}	15.5	X	236.08086	197.86578	93.24008	3.78802	0.1249645	0.22777345	2.6554247	21	1 27.3	19.5
54962 2001 PH_{12}	14.9	X	111.86729	46.69673	14.93491	3.94024	0.0847224	0.22289635	2.6940196	21	2 23.7	18.5
54963 Sotin	14.6	X	104.27122	256.82098	105.16027	8.36715	0.1760299	0.21394968	2.7686090	21	—	—
54964 2001 PF_{27}	15.6	X	294.20319	136.11109	324.23369	5.85424	0.0910299	0.25429545	2.4674232	21	11 27.3	18.4
54965 2001 PN_{27}	15.6	X	143.96965	170.42702	181.52998	6.50414	0.0544108	0.26933452	2.3746961	21	—	—
54966 2001 PA_{28}	14.8	X	271.34117	308.33890	101.84374	6.90990	0.1268102	0.19638810	2.9312933	21	8 6.9	18.8
54967 Millucci	14.9	X	300.82754	227.87246	294.24312	3.94068	0.0494288	0.21650907	2.7467469	21	—	—
54968 2001 PY_{31}	14.9	X	225.28972	344.24199	15.93453	14.73466	0.1231554	0.23334676	2.6129726	21	4 9.4	18.8
54969 2001 PL_{34}	14.1	X	248.06473	136.64979	193.43717	16.01861	0.0863193	0.18186693	3.0853201	21	4 4.1	18.8
54970 2001 PE_{38}	15.1	X	188.25197	23.79436	93.82530	18.85226	0.1202375	0.24297787	2.5434599	21	8 4.1	19.2
54971 2001 PU_{42}	13.8	X	293.84124	95.94386	288.38507	8.04817	0.0909551	0.19318976	2.9635572	21	8 6.1	17.7
54972 2001 PY_{42}	13.6	X	357.45317	141.49936	252.48740	9.82201	0.1611953	0.20254142	2.8716190	21	12 5.4	16.7
54973 2001 PE_{44}	15.2	X	315.27557	174.25669	236.68149	1.04558	0.0596450	0.20294552	2.8678058	21	10 17.8	18.8
54974 2001 PA_{45}	14.4	X	80.13407	202.63184	359.49322	10.38175	0.0777798	0.19036042	2.9928500	21	7 18.7	18.7
54975 2001 PL_{47}	14.2	X	358.06478	273.00066	82.38261	13.06777	0.0824865	0.19916459	2.9039867	21	10 16.2	18.0
54976 2001 PJ_{49}	14.4	X	184.23724	316.07413	87.21804	14.61111	0.1430361	0.23112991	2.6296541	21	4 30.2	18.8
54977 2001 PQ_{49}	14.5	X	295.38047	290.01581	194.52827	29.82094	0.1161796	0.21036629	2.7999608	21	12 17.9	18.6
54978 2001 PZ_{49}	14.4	X	100.06281	37.47911	31.08580	13.40957	0.0538409	0.22394199	2.6856270	21	2 17.8	18.2
54979 2001 PP_{56}	15.9	X	63.11832	143.91531	301.38780	2.11135	0.1349724	0.27152482	2.3619082	21	1 3.8	18.0
54980 2001 PN_{60}	16.5	X	226.09305	128.82686	283.23426	1.61704	0.0947071	0.29032276	2.2588219	21	6 17.9	19.4
54981 2001 PU_{61}	15.5	X	302.40873	24.21451	332.20500	3.87030	0.1019701	0.24251938	2.5466646	21	7 13.5	18.6
54982 2001 PH_{62}	15.2	X	104.77996	275.55453	97.16897	7.40652	0.0479820	0.21766100	2.7370473	21	—	—
54983 2001 QE	15.7	X	311.31687	320.98448	5.07858	0.29391	0.1518941	0.24062194	2.5600350	21	6 4.9	18.8
54984 2001 QR	14.3	X	247.79258	347.92355	313.08677	8.11552	0.0156258	0.17947596	3.1126613	21	3 4.1	18.8
54985 2001 QQ_{1}	15.5	X	212.93510	303.08609	172.33595	3.63972	0.1044419	0.24674342	2.5175165	21	8 26.3	19.0
54986 2001 QZ_{2}	15.0	X	201.59439	112.82240	268.36683	2.44560	0.1588648	0.23280503	2.6170247	21	4 11.7	19.3
54987 2001 QT_{4}	15.2	X	45.45629	252.67474	159.15443	9.19468	0.1527344	0.21409498	2.7673561	21	—	—
54988 2001 QW_{5}	15.6	X	101.81560	269.46051	152.89388	3.67245	0.0767143	0.27396648	2.3478540	21	1 28.6	18.2
54989 2001 QB_{8}	16.0	X	245.39437	234.71301	161.48696	4.63279	0.1040363	0.28948200	2.2631934	21	6 18.5	19.0
54990 2001 QW_{8}	15.0	X	259.93011	211.11378	104.93934	2.41472	0.0738036	0.18322849	3.0700165	21	4 2.5	19.5
54991 2001 QT_{10}	14.4	X	72.15210	52.58016	334.02867	5.58323	0.3255164	0.21169219	2.7882571	21	—	—
54992 2001 QO_{11}	15.1	X	136.75378	201.29041	142.23062	5.68625	0.0610255	0.21822264	2.7323490	21	—	—
54993 2001 QF_{12}	15.1	X	131.25985	105.83503	317.20266	5.56856	0.1676594	0.27542123	2.3395793	21	3 21.9	18.3
54994 2001 QF_{13}	15.7	X	259.95423	328.09164	155.19533	3.53639	0.0875800	0.25309929	2.4751913	21	11 9.3	18.8
54995 2001 QS_{13}	14.3	X	265.13571	242.07541	127.75088	2.93932	0.0886483	0.18897536	3.0074559	21	6 12.0	18.6
54996 2001 QW_{13}	15.4	X	27.92485	296.50518	146.29517	6.14587	0.1159787	0.26403311	2.4063777	21	—	—
54997 2001 QZ_{13}	13.9	X	198.90370	5.79153	338.94389	11.66524	0.2001283	0.22621925	2.6675732	21	2 26.6	18.3
54998 2001 QA_{14}	14.5	X	78.78658	77.03963	341.67065	10.86221	0.1661714	0.21741652	2.7390987	21	1 18.3	17.7
54999 2001 QE_{16}	14.2	X	55.57685	290.36899	112.94806	8.68184	0.1933036	0.21298828	2.7769341	21	—	—
55000 2001 QL_{18}	15.7	X	314.11885	243.68768	123.79667	1.74044	0.1685358	0.24425021	2.5346194	21	8 9.0	18.2
55001 2001 QW_{18}	14.2	X	113.17484	243.00800	140.57708	1.62619	0.1405486	0.16920070	3.2374366	21	1 25.6	18.9
55002 2001 QF_{19}	14.5	X	284.76287	221.04443	226.75382	1.25227	0.0391426	0.20165878	2.8799921	21	10 24.8	18.2
55003 2001 QV_{21}	13.9	X	234.54748	270.09668	159.02859	11.08703	0.1092052	0.18961395	3.0006996	21	7 18.3	18.5
55004 2001 QT_{22}	14.0	X	315.38360	289.50105	109.81039	3.32640	0.0920511	0.19908223	2.9047876	21	10 1.7	17.6
55005 2001 QQ_{23}	15.1	X	98.26009	12.36778	40.71752	1.56594	0.1995571	0.26641209	2.3920308	21	2 1.6	17.6
55006 2001 QZ_{24}	13.5	X	175.52423	230.33124	145.34901	17.17380	0.2125385	0.17633216	3.1495489	21	3 24.4	19.0
55007 2001 QC_{26}	14.1	X	111.97744	307.52784	126.00713	6.20842	0.1543520	0.17467096	3.1694866	21	3 28.3	18.7
55008 2001 QW_{26}	14.7	X	0.52638	88.57452	149.60943	1.20486	0.1458225	0.18529166	3.0471849	21	5 4.4	18.2
55009 2001 QZ_{26}	14.9	X	193.48542	193.30505	257.18676	1.61743	0.1645961	0.23640149	2.5904144	21	7 1.6	19.1
55010 2001 QD_{27}	15.3	X	339.54682	290.07237	159.47454	2.45728	0.1570264	0.25680271	2.4513368	21	—	—
55011 2001 QV_{29}	14.2	X	36.41233	256.36516	96.94728	3.26003	0.0740404	0.20042986	2.8917523	21	11 30.0	18.1
55012 2001 QG_{30}	13.3	X	314.77334	359.54276	13.15494	10.94240	0.1143647	0.19073836	2.9888952	21	8 25.5	17.1
55013 2001 QB_{31}	14.3	X	307.35264	295.21892	82.27551	3.06607	0.0682669	0.23980776	2.5658261	21	8 26.5	17.3
55014 2001 QC_{31}	13.8	X	183.60910	118.37587	39.43210	13.46001	0.1085494	0.24002273	2.5642939	21	9 24.6	17.8
55015 2001 QQ_{31}	14.3	X	229.12574	255.33789	119.58785	7.37388	0.1999478	0.23129451	2.6284063	21	5 1.4	18.7
55016 2001 QE_{32}	14.3	X	42.64110	281.41933	285.48588	7.52542	0.1352279	0.23505472	2.6002997	21	6 2.4	17.2
55017 2001 QH_{32}	14.4	X	302.44360	72.70086	167.23020	12.14275	0.0579982	0.17853615	3.1235750	21	2 19.4	18.8
55018 2001 QH_{33}	14.2	X	79.45590	268.61238	310.46101	12.96571	0.2449420	0.24140827	2.5544728	21	8 28.8	18.0
55019 2001 QO_{34}	15.6	X	200.99518	200.78322	161.23462	0.92218	0.1545315	0.23174062	2.6250320	21	3 20.0	19.7
55020 2001 QS_{34}	15.0	X	74.36952	99.88271	244.91691	2.78819	0.1055854	0.21268374	2.7795843	21	—	—
55021 2001 QK_{38}	14.3	X	103.90965	276.58979	112.75360	10.39339	0.2694250	0.21906090	2.7253742	21	1 31.0	17.8
55022 2001 QQ_{38}	15.5	X	348.56890	26.20483	25.17862	2.45854	0.1659532	0.25828557	2.4419454	21	12 31.1	17.9
55023 2001 QV_{38}	15.2	X	20.27923	279.72240	102.87027	7.06481	0.1386859	0.25779310	2.4450544	21	—	—
55024 2001 QB_{40}	15.2	X	164.98358	345.18521	317.02741	1.80095	0.0495261	0.21960586	2.7208636	21	—	—
55025 2001 QF_{40}	14.8	X	329.30941	6.35281	349.57855	1.72931	0.0843932	0.19883568	2.9071884	21	8 25.1	18.2
55026 2001 QG_{41}	15.8	X	95.70098	69.49100	325.37418	1.94670	0.1555729	0.26940983	2.3742535	21	—	—
55027 2001 QL_{42}	14.1	X	120.11247	34.23079	50.33209	1.36254	0.1583139	0.18116465	3.0932884	21	4 16.9	18.6
55028 2001 QO_{42}	14.9	X	280.46874	346.03657	343.56478	2.56932	0.1197194	0.18909584	3.0061783	21	5 4.8	19.3
55029 2001 QN_{45}	14.4	X	62.87011	106.74932	42.29326	2.27829	0.0308015	0.18350547	3.0669265	21	4 8.9	18.5
55030 2001 QP_{45}	14.3	X	203.01831	313.28593	136.87627	12.63267	0.0667987	0.19327594	2.9626762	21	7 14.2	18.9
55031 2001 QJ_{47}	15.5	X	318.53677	105.59243	0.72961	2.14901	0.1398556	0.26028177	2.4294439	21	—	—
55032 2001 QX_{47}	16.3	X	18.19350	141.62739	288.83044	0.89437	0.1092083	0.26302947	2.4124951	21	—	—
55033 2001 QT_{48}	15.1	X	128.79493	347.05189	310.40278	2.04065	0.0053169	0.21182681	2.7870757	21	—	—
55034 2001 QA_{49}	15.7	X	48.22784	277.60372	152.95159	2.46052	0.1795832	0.26587690	2.3952397	21	—	—
55035 2001 QP_{51}	13.8	X	236.39839	277.91457	126.94805	12.05528	0.1110694	0.19112622	2.9848501	21	6 21.3	18.4
55036 2001 QQ_{51}	15.2	X	158.52160	333.14685	73.45158	3.36796	0.2116759	0.22862145	2.6488543	21	4 9.7	19.5
55037 2001 QT_{51}	14.1	X	126.34996	291.48853	116.61272	13.38467	0.1502485	0.17598671	3.1536692	21	3 14.8	19.0
55038 2001 QP_{52}	15.4	X	65.07133	58.96084	11.40104	5.79751	0.1056319	0.26974666	2.3722766	21	—	—
55039 2001 QK_{54}	14.8	X	197.05897	54.56339	345.27319	13.73863	0.1257890	0.23324016	2.6137687	21	4 25.9	19.2
55040 2001 QE_{56}	15.5	X	241.60106	7.67709	121.18271	3.87386	0.0566459	0.25372255	2.4711361	21	10 28.1	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55041 2001 QD_{57}	15.1	X	348.23718	106.04878	8.72316	4.59478	0.1516827	0.26461561	2.4028449	21	—	—
55042 2001 QX_{58}	14.5	X	138.65632	154.22836	260.13714	5.96295	0.2467084	0.22726672	2.6593703	21	3 31.5	18.9
55043 2001 QL_{59}	14.8	X	128.28876	212.61164	127.59657	5.23248	0.3034852	0.26875208	2.3781258	21	—	—
55044 2001 QZ_{59}	15.7	X	175.69066	71.92674	240.45624	1.06630	0.0780196	0.22101987	2.7092464	21	—	—
55045 2001 QH_{62}	15.0	X	112.31360	275.59707	233.02697	2.56880	0.1248509	0.23710647	2.5852772	21	6 22.1	18.7
55046 2001 QQ_{64}	14.7	X	47.03692	125.83890	260.27045	2.36545	0.0905542	0.20934380	2.8090706	21	—	—
55047 2001 QX_{65}	14.6	X	236.87754	174.09940	204.48254	5.72807	0.1590333	0.18557722	3.0440582	21	5 15.9	19.5
55048 2001 QK_{66}	15.6	X	27.42581	60.02505	252.83922	2.86229	0.0964121	0.29805301	2.2195948	21	10 12.2	18.0
55049 2001 QJ_{67}	14.3	X	205.34141	253.73013	150.27451	12.72361	0.1621789	0.23008564	2.6376047	21	5 18.4	18.8
55050 2001 QU_{67}	16.1	X	52.37592	305.82445	294.62857	4.07401	0.0862212	0.29344985	2.2427462	21	8 2.2	18.5
55051 2001 QT_{68}	13.8	X	79.35366	24.12427	338.16921	1.60936	0.1260356	0.20914626	2.8108391	21	—	—
55052 2001 QU_{68}	13.9	X	234.68888	354.09600	21.77709	9.00092	0.2618388	0.18305748	3.0719282	21	5 1.7	19.2
55053 2001 QV_{68}	14.7	X	180.66842	265.68589	84.51286	4.95842	0.1482661	0.22222899	2.6994103	21	2 17.9	19.0
55054 2001 QH_{69}	16.1	X	26.01453	3.48283	284.08817	4.83006	0.1332555	0.29548123	2.2324553	21	9 4.6	18.1
55055 2001 QR_{69}	14.6	X	134.28713	75.94253	287.43334	3.91723	0.1754598	0.21858868	2.7292978	21	1 20.3	18.5
55056 2001 QU_{69}	14.5	X	320.84012	336.41171	327.26847	14.43631	0.1079705	0.23797852	2.5789576	21	5 22.1	18.0
55057 2001 QJ_{70}	13.5	X	131.01890	69.98528	317.42934	11.19204	0.0972977	0.17127466	3.2112489	21	2 12.5	18.3
55058 2001 QC_{73}	14.7	X	101.89465	288.74519	148.58717	23.61457	0.2617637	0.27412570	2.3469448	21	3 25.7	17.8
55059 2001 QG_{73}	12.9	X	288.81390	166.53796	98.70058	24.00940	0.0963880	0.17703112	3.1412534	21	3 10.7	17.8
55060 2001 QM_{73}	11.1	X	344.90312	177.97058	105.89243	26.58459	0.0473716	0.08545574	5.1047589	21	6 19.3	17.8
55061 2001 QK_{74}	14.5	X	286.69286	88.93973	332.58706	2.42029	0.0176258	0.24342154	2.5403684	21	9 30.5	17.8
55062 2001 QU_{77}	13.9	X	117.17452	311.75585	41.51752	7.88128	0.1992179	0.21083259	2.7958308	21	—	—
55063 2001 QS_{78}	14.0	X	253.99732	88.21536	217.99321	12.47053	0.1938371	0.22397764	2.6853420	21	2 22.4	18.7
55064 2001 QP_{80}	13.5	X	262.16334	72.24742	269.12818	8.48629	0.1039594	0.18355430	3.0663826	21	4 29.2	18.1
55065 2001 QY_{80}	15.2	X	273.03454	82.07482	286.08204	5.06857	0.1312588	0.28681688	2.2771916	21	6 10.3	18.0
55066 2001 QF_{81}	14.1	X	40.43091	298.46843	314.30246	8.02336	0.1175006	0.23970890	2.5665316	21	8 3.9	17.1
55067 2001 QQ_{81}	14.8	X	329.04604	51.21472	274.65997	6.84336	0.1663347	0.24011947	2.5636052	21	7 5.0	17.1
55068 2001 QX_{83}	13.9	X	119.66460	31.93299	358.40262	20.60216	0.2239248	0.16750129	3.2592971	21	2 25.9	19.0
55069 2001 QR_{85}	14.7	X	271.22672	3.46155	198.04832	4.26770	0.0403251	0.21677702	2.7444830	21	—	—
55070 2001 QZ_{85}	14.7	X	16.51110	205.13448	30.40731	2.78723	0.1210472	0.23445570	2.6047268	21	5 25.5	17.5
55071 2001 QE_{86}	13.4	X	223.20102	254.18750	89.60106	19.17206	0.1763420	0.17628895	3.1500636	21	4 1.3	18.9
55072 2001 QK_{89}	14.4	X	355.96390	285.88999	88.60926	14.56843	0.1961892	0.20285628	2.8686468	21	11 14.4	17.5
55073 2001 QY_{92}	13.7	X	44.58048	183.64025	270.50117	14.98271	0.1870912	0.21557192	2.7547018	21	1 1.1	16.3
55074 2001 QH_{93}	14.1	X	196.98614	56.64947	358.73361	13.92537	0.0760367	0.17984826	3.1083642	21	5 20.6	19.1
55075 2001 QP_{96}	15.1	X	275.08507	27.09193	347.61221	7.56088	0.1285627	0.28762264	2.2729367	21	6 23.7	18.1
55076 2001 QQ_{96}	14.3	X	223.54254	228.37085	190.09877	13.67252	0.1536912	0.23510583	2.5999228	21	6 19.9	18.6
55077 2001 QP_{98}	14.3	X	165.14169	279.07286	159.40299	11.70805	0.2499126	0.18405211	3.0608510	21	5 28.2	19.8
55078 2001 QB_{101}	14.5	X	253.91419	289.58828	109.09733	13.56369	0.1832338	0.23937560	2.5689134	21	6 23.6	18.4
55079 2001 QM_{103}	15.7	X	94.48341	105.91311	354.68819	4.17681	0.0970491	0.27830376	2.3233965	21	3 15.1	18.3
55080 2001 QM_{104}	14.1	X	94.89612	203.19148	178.76297	9.58188	0.1541702	0.21434262	2.7652243	21	—	—
55081 2001 QP_{109}	15.3	X	293.81774	299.21287	28.27584	6.43622	0.1938947	0.23979851	2.5658921	21	5 4.1	18.8
55082 Xlendi	15.5	X	118.57129	105.51898	335.17324	4.55534	0.0694012	0.27750030	2.3278790	21	3 16.4	18.4
55083 2001 QV_{110}	14.1	X	287.81654	119.93513	239.86418	7.71330	0.1032871	0.19077401	2.9885229	21	6 25.3	18.1
55084 2001 QE_{115}	14.2	X	139.33933	256.61820	206.22741	9.60676	0.0460980	0.18355834	3.0663377	21	5 19.3	18.6
55085 2001 QL_{115}	15.2	X	19.67771	257.37500	245.00571	5.91650	0.0510496	0.27208616	2.3586586	21	1 11.1	17.9
55086 2001 QQ_{117}	14.4	X	232.18681	124.28274	318.53594	6.72224	0.1678731	0.23861125	2.5743965	21	7 30.1	18.3
55087 2001 QB_{120}	14.4	X	314.63893	154.88592	19.81811	8.15105	0.1897075	0.26728960	2.3867925	21	—	—
55088 2001 QV_{120}	14.9	X	8.69621	36.90492	359.03155	5.32559	0.0516850	0.21042256	2.7994616	21	12 14.9	18.6
55089 2001 QD_{121}	14.7	X	222.81161	11.35476	61.02213	4.21810	0.2262292	0.24094381	2.5577546	21	7 2.4	19.0
55090 2001 QX_{121}	15.5	X	356.09515	301.30353	124.98010	7.05228	0.1128484	0.25936667	2.4351550	21	—	—
55091 2001 QT_{122}	14.9	X	229.18249	301.71283	74.90981	3.58916	0.1046193	0.18640009	3.0350927	21	5 9.7	19.5
55092 2001 QO_{123}	16.1	X	199.55647	163.94936	59.30580	3.16932	0.0824126	0.31173921	2.1541458	21	—	—
55093 2001 QZ_{123}	15.5	X	33.68133	97.82341	11.20806	6.08733	0.1038397	0.27045520	2.3681315	21	—	—
55094 2001 QS_{127}	14.9	X	236.52781	330.57810	281.08337	10.79058	0.1550284	0.22280196	2.6947804	21	—	—
55095 2001 QZ_{129}	14.7	X	299.26309	83.76257	248.77252	4.88576	0.1587335	0.19067678	2.9895387	21	5 28.0	18.5
55096 2001 QB_{132}	15.4	X	352.48408	293.06987	268.67798	6.07357	0.0573175	0.27850485	2.3222780	21	2 17.6	18.1
55097 2001 QT_{132}	13.8	X	290.93345	199.69509	160.98118	11.24004	0.1073674	0.18925725	3.0044688	21	6 30.4	18.0
55098 2001 QS_{133}	13.8	X	240.84410	168.08039	193.77401	14.75685	0.0852711	0.18505913	3.0497368	21	5 6.8	18.4
55099 2001 QK_{137}	13.6	X	188.57987	37.22513	345.02312	9.85268	0.1149069	0.17584845	3.1553220	21	4 3.4	18.7
55100 2001 QM_{137}	13.8	X	105.22315	300.87325	358.72460	17.95253	0.2136113	0.20582263	2.8410179	21	12 25.9	18.9
55101 2001 QW_{137}	14.8	X	214.05600	329.77587	348.57083	13.60823	0.2590577	0.22322289	2.6913917	21	2 11.3	19.7
55102 2001 QX_{137}	15.2	X	95.01345	280.36279	297.60972	6.84425	0.0574655	0.28930196	2.2641323	21	8 25.4	18.0
55103 2001 QE_{138}	13.5	X	323.04290	258.41678	320.75165	6.59808	0.0594726	0.27090284	2.3655221	21	2 3.6	16.4
55104 2001 QU_{138}	14.6	X	250.59976	343.90823	329.84432	11.40399	0.2228505	0.22742594	2.6581290	21	3 1.2	19.0
55105 2001 QN_{139}	14.0	X	130.13061	333.04872	339.28500	8.74874	0.1332338	0.25844019	2.4409713	21	—	—
55106 2001 QR_{141}	14.8	X	254.35020	314.68793	112.95517	3.27672	0.0726050	0.19440112	2.9512333	21	8 15.3	18.8
55107 2001 QS_{141}	14.5	X	109.08598	350.89883	80.00934	2.41721	0.1636136	0.17378452	3.1802553	21	3 21.8	19.1
55108 Beamueller	13.7	X	224.48804	64.73282	8.31466	10.67864	0.1026917	0.18818591	3.0158609	21	7 16.6	18.4
55109 2001 QL_{145}	14.5	X	131.29087	357.55893	175.57507	12.73385	0.0971609	0.19147046	2.9812715	21	8 8.8	19.2
55110 2001 QF_{146}	14.4	X	212.66795	266.37384	173.66850	10.27768	0.1206626	0.18866487	3.0107546	21	7 7.9	19.2
55111 2001 QD_{152}	14.1	X	340.99302	354.72913	316.66990	30.61504	0.1578242	0.23695268	2.5863957	21	7 17.9	17.0
55112 Mariangela	13.7	X	308.86024	323.45294	30.52797	10.56027	0.1244762	0.19227449	2.9729546	21	7 18.0	17.6
55113 2001 QD_{158}	15.3	X	326.89087	152.12769	242.95151	1.03687	0.0740813	0.20101941	2.8860956	21	10 13.1	18.7
55114 2001 QD_{160}	14.7	X	342.74397	16.20423	3.64303	1.55331	0.0701955	0.20137892	2.8826597	21	10 17.4	18.2
55115 2001 QQ_{162}	15.3	X	222.26057	210.18228	179.00616	1.93111	0.0444273	0.18720584	3.0263776	21	5 21.9	19.7
55116 2001 QU_{165}	14.9	X	76.92437	295.25949	70.70001	6.75647	0.0535980	0.21375168	2.7703184	21	—	—
55117 2001 QW_{165}	15.5	X	270.21593	324.14333	68.54833	5.75424	0.1702824	0.24225543	2.5485140	21	7 6.4	18.9
55118 2001 QC_{166}	15.5	X	140.18273	328.49441	85.04672	5.71018	0.0900582	0.27764158	2.3270893	21	3 15.1	18.6
55119 2001 QM_{167}	15.0	X	298.83627	109.60260	50.05227	7.30055	0.1400076	0.21650726	2.7467622	21	—	—
55120 2001 QP_{168}	14.3	X	329.14691	159.15891	169.19296	10.03532	0.1026621	0.18768710	3.0212021	21	7 14.4	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55121 2001 QU_{168}	15.7	X	186.44140	284.48282	107.55745	7.75048	0.1043731	0.28205357	2.3027581	21	4 10.8	19.1
55122 2001 QW_{169}	14.8	X	146.66310	8.38491	326.80417	3.71079	0.0763465	0.21287284	2.7779380	21	—	—
55123 2001 QL_{170}	14.1	X	178.73801	158.10738	263.59471	18.19758	0.1448320	0.17738165	3.1371137	21	5 13.4	19.4
55124 2001 QU_{170}	15.1	X	337.99040	143.14887	258.05674	0.96115	0.0676095	0.20309636	2.8663856	21	11 7.6	18.6
55125 2001 QD_{173}	14.8	X	85.17781	275.64775	306.77543	11.70285	0.1279906	0.24556136	2.5255891	21	8 24.9	18.3
55126 2001 QQ_{174}	15.1	X	143.86737	247.15400	185.67239	2.56090	0.1844435	0.22846701	2.6500479	21	4 25.8	19.3
55127 2001 QZ_{174}	15.3	X	354.09102	323.28308	172.07201	3.15379	0.0535174	0.22062498	2.7124783	21	—	—
55128 2001 QH_{177}	15.7	X	107.22657	81.67745	282.17732	6.43532	0.1180536	0.26725593	2.3869930	21	—	—
55129 2001 QZ_{177}	14.2	X	206.24048	267.18927	132.12252	10.63619	0.2083574	0.22863931	2.6487163	21	5 12.5	18.9
55130 2001 QR_{179}	14.8	X	84.23474	250.20227	117.66896	3.76764	0.0123482	0.21358679	2.7717441	21	—	—
55131 2001 QY_{180}	15.0	X	222.60073	153.29804	271.13985	3.83404	0.0974829	0.23857161	2.5746817	21	7 1.2	18.7
55132 2001 QB_{182}	13.5	X	353.70135	138.45199	171.86158	10.31389	0.0992953	0.19151286	2.9808315	21	7 30.4	17.2
55133 2001 QL_{182}	14.1	X	273.99439	325.51681	81.92366	12.57966	0.0989948	0.18665931	3.0322821	21	8 13.0	18.5
55134 2001 QM_{183}	14.1	X	283.92034	134.50615	136.50458	1.91031	0.1409278	0.17685686	3.1433165	21	2 25.6	18.5
55135 2001 QP_{183}	14.6	X	27.78524	25.02788	218.38054	9.37241	0.0427189	0.18946369	3.0022859	21	6 22.0	18.7
55136 2001 QD_{185}	16.4	X	257.91525	344.78078	12.27010	1.79420	0.1215288	0.28772045	2.2724215	21	5 7.0	19.3
55137 2001 QK_{185}	14.3	X	99.40489	138.27253	254.12388	3.92304	0.1944624	0.21609894	2.7502212	21	1 16.6	17.6
55138 2001 QL_{185}	15.4	X	317.39519	50.51087	284.67559	4.03233	0.1473569	0.24064599	2.5598644	21	6 29.9	18.1
55139 2001 QQ_{190}	14.0	X	144.05729	155.93714	254.68316	13.68498	0.1258040	0.22558788	2.6725481	21	3 16.8	18.3
55140 2001 QC_{193}	13.9	X	329.72144	41.40022	240.14833	10.67265	0.0928053	0.18548284	3.0450907	21	5 15.1	17.9
55141 2001 QP_{193}	14.3	X	131.12883	127.88057	259.05203	11.85518	0.1677947	0.21961584	2.7207812	21	2 8.8	18.5
55142 2001 QD_{194}	13.7	X	95.15948	252.71734	288.56583	12.88264	0.1057813	0.23618261	2.5920146	21	7 12.3	17.2
55143 2001 QS_{195}	14.1	X	32.41536	207.07226	306.62255	24.16834	0.1427847	0.27308054	2.3529293	21	2 8.7	16.3
55144 2001 QK_{198}	14.4	X	208.87776	188.77937	165.15989	1.55127	0.1842913	0.17534735	3.1613306	21	3 22.2	19.7
55145 2001 QE_{199}	15.4	X	131.74175	257.08830	150.98348	3.03295	0.1614271	0.26867933	2.3785550	21	3 5.5	18.6
55146 2001 QO_{199}	14.3	X	52.61803	3.48303	39.87117	13.38496	0.0399603	0.20564235	2.8426781	21	—	—
55147 2001 QT_{199}	14.0	X	149.10004	162.37591	9.04996	12.86639	0.1769651	0.23686556	2.5870299	21	9 5.9	18.3
55148 2001 QE_{200}	14.8	X	326.66534	344.58562	271.49832	14.76780	0.1071705	0.22878925	2.6475589	21	3 22.1	18.5
55149 2001 QD_{202}	15.5	X	141.34139	78.90547	293.93235	2.32306	0.0400300	0.22597841	2.6694682	21	1 21.4	19.1
55150 2001 QQ_{202}	14.8	X	232.92434	336.74356	336.51247	9.07835	0.0551863	0.18008697	3.1056167	21	2 28.8	19.3
55151 2001 QE_{214}	15.2	X	152.38255	312.91217	191.58222	2.44190	0.0530609	0.24121871	2.5558109	21	7 26.9	18.7
55152 2001 QN_{218}	14.4	X	46.96213	321.97670	191.84047	0.34588	0.1207583	0.17895065	3.1187498	21	4 1.7	18.2
55153 2001 QZ_{218}	15.3	X	120.75289	207.27939	175.08009	5.39429	0.0812990	0.22004951	2.7172053	21	1 14.2	19.1
55154 2001 QD_{220}	14.3	X	237.97340	32.12693	299.17672	12.06156	0.1716601	0.22662549	2.6643844	21	3 9.9	18.8
55155 2001 QV_{220}	15.1	X	98.42979	198.88875	246.41180	7.93586	0.1037187	0.22761837	2.6566306	21	3 5.1	18.8
55156 2001 QX_{222}	14.7	X	86.12831	121.41708	308.00353	13.26292	0.1388635	0.22184000	2.7025650	21	2 4.2	18.0
55157 2001 QV_{227}	15.1	X	65.18901	225.01830	277.49393	8.55861	0.1366698	0.27844340	2.3226197	21	3 28.3	17.5
55158 2001 QS_{230}	14.8	X	133.91804	229.69596	210.95963	8.09885	0.1159447	0.17941234	3.1133971	21	4 22.1	19.5
55159 2001 QW_{234}	15.1	X	40.23403	139.82872	359.54735	3.80351	0.0941818	0.27351002	2.3504655	21	2 9.7	17.3
55160 2001 QT_{236}	16.1	X	9.20436	267.51823	250.18507	1.21255	0.1587047	0.27159891	2.3614787	21	1 4.2	18.4
55161 2001 QB_{238}	14.5	X	102.59605	127.63405	319.51599	1.49060	0.0932430	0.17438103	3.1729987	21	3 22.5	19.0
55162 2001 QT_{238}	15.2	X	247.60665	53.44653	314.35744	1.82246	0.0437569	0.23412586	2.6071727	21	5 21.7	18.8
55163 2001 QV_{238}	14.7	X	61.19193	4.69313	237.71208	0.87003	0.0401317	0.19091611	2.9870398	21	8 6.4	18.6
55164 2001 QU_{239}	14.7	X	115.13241	113.24480	220.84795	5.50532	0.0368926	0.21149952	2.7899503	21	—	—
55165 2001 QC_{242}	15.0	X	128.59918	277.28072	183.06696	11.18869	0.1386268	0.22858498	2.6491360	21	5 12.2	19.0
55166 2001 QV_{243}	14.7	X	159.03855	236.63890	193.29308	2.43542	0.0707747	0.22580388	2.6708436	21	4 29.0	18.4
55167 2001 QY_{243}	14.2	X	184.20131	243.74373	210.58188	1.07236	0.0675459	0.18616981	3.0375950	21	6 28.7	18.7
55168 2001 QK_{250}	14.2	X	106.34377	42.65073	84.79007	10.11738	0.1983514	0.18135299	3.0911463	21	5 30.5	18.8
55169 2001 QQ_{252}	15.2	X	163.10611	66.29478	11.32891	3.98974	0.1616126	0.23315754	2.6143862	21	5 16.9	19.3
55170 2001 QU_{255}	14.5	X	116.42027	281.02529	191.51676	9.64290	0.0775122	0.18259327	3.0771326	21	5 8.7	18.9
55171 2001 QO_{256}	15.2	X	215.06739	269.23686	85.14871	5.47877	0.0631663	0.22853720	2.6495052	21	3 28.6	19.1
55172 2001 QY_{257}	14.1	X	210.23117	225.60764	170.86525	14.39182	0.1043364	0.23132678	2.6281619	21	5 14.9	18.3
55173 2001 QZ_{257}	14.8	X	67.41799	292.55544	162.03080	10.51218	0.0656935	0.21895797	2.7262282	21	1 31.5	18.3
55174 2001 QW_{258}	15.0	X	91.75675	190.97956	231.92316	5.65154	0.1003814	0.26919218	2.3755331	21	1 17.4	17.6
55175 2001 QN_{261}	14.6	X	262.69227	104.04764	301.05888	6.77335	0.1585189	0.23944819	2.5683942	21	7 15.6	17.9
55176 2001 QD_{262}	14.8	X	269.34765	221.25470	213.24778	8.06569	0.1608440	0.24382273	2.5375811	21	8 30.2	18.2
55177 2001 QM_{263}	14.6	X	355.53810	68.37026	357.70621	1.63420	0.0540608	0.20283525	2.8688451	21	—	—
55178 2001 QF_{265}	14.4	X	189.79732	347.20111	245.45737	2.44673	0.0679090	0.20859938	2.8157497	21	12 25.2	18.4
55179 2001 QT_{276}	13.5	X	176.74129	0.17982	358.85763	18.00464	0.2723083	0.17630841	3.1498318	21	3 7.7	19.1
55180 2001 QW_{279}	15.6	X	191.25917	206.26794	125.41261	14.44413	0.1009525	0.27342555	2.3509496	21	1 24.5	19.0
55181 2001 QD_{280}	14.6	X	150.99713	39.59811	54.82053	13.97395	0.2255355	0.23136563	2.6278677	21	5 30.3	19.0
55182 2001 QB_{282}	13.8	X	147.14125	206.60137	248.11443	21.17746	0.0278891	0.23091795	2.6312630	21	5 11.8	17.5
55183 2001 QK_{284}	13.0	X	324.96674	222.95746	126.12862	11.50297	0.1127855	0.19083427	2.9878937	21	8 5.8	16.4
55184 2001 QX_{286}	14.5	X	331.63380	46.54818	181.41684	12.75252	0.0523023	0.17970599	3.1100044	21	3 14.9	18.8
55185 2001 QB_{287}	14.5	X	205.02064	59.45593	246.93045	3.46937	0.1288303	0.17296261	3.1903223	21	1 23.3	19.7
55186 2001 QQ_{289}	14.8	X	173.28122	261.81696	175.09401	1.59393	0.0776112	0.18747316	3.0235001	21	5 26.3	19.2
55187 2001 QX_{290}	15.0	X	142.12039	74.12168	17.93037	2.63875	0.0803420	0.23184459	2.6242472	21	5 7.6	18.6
55188 2001 QF_{292}	13.8	X	178.93952	276.25439	112.99532	2.45509	0.1892147	0.17612578	3.1520089	21	4 8.7	19.0
55189 2001 QW_{294}	15.2	X	123.09494	307.64410	156.93137	12.75619	0.2299566	0.22847675	2.6499725	21	5 22.7	19.6
55190 2001 QC_{297}	14.9	X	239.77585	169.22890	43.60278	6.68104	0.0418929	0.25862857	2.4397859	21	—	—
55191 2001 QG_{297}	14.0	X	310.24756	251.16025	147.71104	13.63578	0.1942893	0.24193722	2.5507482	21	9 17.4	16.4
55192 2001 RN_{2}	14.4	X	355.23975	295.80524	179.93569	11.58873	0.1686592	0.16415949	3.3033814	21	—	—
55193 2001 RH_{4}	15.4	X	72.88811	145.30236	263.50468	4.01540	0.1879126	0.21649960	2.7468271	21	—	—
55194 2001 RP_{11}	15.1	X	214.19196	21.20185	42.01577	2.57848	0.1180008	0.18436404	3.0573975	21	6 19.7	19.8
55195 2001 RC_{13}	15.0	X	280.59700	192.74192	330.72757	5.93250	0.0921797	0.26091007	2.4255421	21	—	—
55196 Marchini	13.5	X	244.68794	241.94688	31.70035	5.55898	0.1554443	0.12347393	3.9941024	21	1 29.5	19.7
55197 2001 RN_{17}	14.7	X	58.59965	267.17715	129.82552	1.27566	0.0743908	0.21129185	2.7917780	21	—	—
55198 2001 RV_{18}	15.1	X	334.96794	184.71480	322.07136	4.45059	0.1661949	0.26802214	2.3824416	21	—	—
55199 2001 RG_{19}	15.8	X	76.57471	193.81402	239.92696	0.82896	0.1625323	0.26967024	2.3727248	21	1 15.9	18.0
55200 2001 RO_{19}	14.7	X	160.09228	54.36692	25.63330	2.28234	0.1369915	0.18365643	3.0652457	21	5 18.6	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55201 2001 RL_{23}	15.8	X	44.17508	300.94337	155.37927	2.23304	0.1793387	0.26769039	2.3844096	21	—	—
55202 2001 RW_{23}	15.1	X	151.56263	290.50621	158.49244	6.68730	0.1917774	0.18190957	3.0848379	21	5 26.5	20.2
55203 2001 RZ_{24}	14.6	X	49.64731	299.12654	246.54321	0.28445	0.1205197	0.18449241	3.0559790	21	5 17.4	18.2
55204 2001 RE_{28}	14.9	X	163.50655	119.12368	302.01279	3.30275	0.2252846	0.18004702	3.1060761	21	5 2.3	20.2
55205 2001 RQ_{29}	13.9	X	223.57135	277.42221	352.79669	8.99793	0.1561154	0.17147905	3.2086967	21	—	—
55206 2001 RM_{32}	15.1	X	23.14105	24.89925	272.44712	4.54475	0.0453092	0.19740488	2.9212190	21	8 25.3	18.9
55207 2001 RN_{32}	15.1	X	61.67605	212.60462	187.48261	5.35145	0.1774206	0.21414255	2.7669463	21	—	—
55208 2001 RJ_{35}	14.8	X	189.50058	326.24256	173.97814	11.07952	0.1144345	0.24645322	2.5194924	21	8 31.9	18.7
55209 2001 RA_{36}	15.2	X	89.17360	145.21641	303.16564	5.12059	0.1417630	0.27347184	2.3506843	21	2 23.5	17.8
55210 2001 RN_{36}	15.4	X	83.61220	198.78552	296.27314	3.20684	0.1072703	0.23030073	2.6359621	21	4 22.7	18.8
55211 2001 RL_{43}	14.2	X	194.09039	222.33204	149.95709	5.79158	0.1619962	0.17715793	3.1397542	21	4 1.6	19.4
55212 Yukitoayatsuji	14.3	X	62.42210	125.77007	145.55755	3.00578	0.0828270	0.19575403	2.9376197	21	9 22.5	18.4
55213 2001 RC_{49}	14.2	X	351.52738	211.59327	67.18903	28.22927	0.0148297	0.23551637	2.5969006	21	6 13.5	17.7
55214 2001 RJ_{49}	15.4	X	301.62923	191.54228	335.06325	8.85488	0.1357435	0.26378197	2.4079048	21	—	—
55215 2001 RG_{54}	15.2	X	303.37554	231.03838	90.07828	1.43643	0.0551972	0.23581387	2.5947159	21	6 1.3	18.5
55216 2001 RH_{60}	15.0	X	343.50421	105.77574	81.84097	5.34882	0.0481629	0.22292535	2.6937859	21	2 2.8	18.5
55217 2001 RV_{60}	14.6	X	171.61341	10.60281	99.03138	5.96175	0.1108281	0.18625024	3.0367205	21	7 4.9	19.4
55218 2001 RW_{60}	13.9	X	232.64250	119.91511	155.95901	14.08717	0.1314925	0.17150920	3.2083206	21	1 13.3	19.2
55219 2001 RQ_{61}	14.9	X	185.28232	295.44705	137.32845	2.37147	0.1619462	0.18411780	3.0601229	21	6 3.3	20.0
55220 2001 RE_{63}	14.4	X	352.56152	216.52056	109.96933	10.61646	0.0518529	0.19238773	2.9717878	21	8 24.3	18.3
55221 Nancynoblitt	13.3	X	103.32900	267.85473	192.79779	20.36816	0.2711488	0.17639361	3.1488174	21	5 4.5	18.2
55222 Makotoshinkai	14.5	X	71.22228	354.35158	94.29965	1.56385	0.2290575	0.16722524	3.2628829	21	3 4.7	18.5
55223 Akiraifukube	14.9	X	220.99928	350.85403	84.36023	3.47554	0.1477266	0.23659803	2.5889796	21	7 9.9	18.8
55224 2001 RR_{69}	15.0	X	233.61009	96.44536	208.88513	8.34705	0.0214896	0.22256452	2.6966966	21	2 12.8	19.0
55225 2001 RG_{70}	14.4	X	100.65215	171.02664	288.05044	4.45097	0.1456516	0.17276974	3.1926962	21	4 9.6	19.0
55226 2001 RV_{70}	13.5	X	216.21956	45.45412	282.77474	4.96718	0.1188412	0.17425616	3.1745143	21	2 26.1	18.5
55227 2001 RB_{71}	15.1	X	71.77826	263.82719	219.84780	8.06398	0.0376616	0.22376078	2.6870767	21	3 11.1	18.7
55228 2001 RR_{72}	14.4	X	99.89853	49.61829	239.64449	1.18384	0.0146799	0.20121617	2.8842139	21	11 20.8	18.5
55229 2001 RH_{73}	14.3	X	287.60251	132.16625	214.93589	10.69244	0.1182305	0.18600637	3.0393742	21	6 6.9	18.5
55230 2001 RO_{73}	15.8	X	349.06973	196.66943	311.48933	6.12765	0.0549431	0.26673656	2.3900906	21	—	—
55231 2001 RC_{74}	15.2	X	232.58260	329.51827	235.24831	5.48553	0.1039593	0.25817579	2.4426376	21	—	—
55232 2001 RR_{74}	14.3	X	323.87179	178.15053	327.15886	2.21207	0.1301602	0.20975921	2.8053606	21	—	—
55233 2001 RZ_{74}	15.4	X	110.63696	191.33347	3.22978	3.73605	0.1069987	0.28830378	2.2693553	21	8 22.6	18.4
55234 2001 RC_{75}	13.6	X	115.61259	78.59487	21.43274	15.68568	0.1958289	0.17325728	3.1867040	21	5 2.4	18.6
55235 2001 RD_{80}	15.4	X	239.88963	196.75390	218.60701	8.10206	0.1024848	0.23996637	2.5646954	21	7 7.4	19.1
55236 2001 RW_{80}	14.0	X	323.99352	69.31870	72.71507	7.70612	0.0390263	0.21077595	2.7963317	21	—	—
55237 2001 RK_{81}	15.2	X	307.50618	342.83810	357.29930	6.04890	0.1405978	0.23922796	2.5699702	21	6 21.2	18.3
55238 2001 RY_{83}	15.6	X	313.08291	183.32644	325.33821	1.96345	0.1284273	0.26300861	2.4126227	21	—	—
55239 2001 RZ_{84}	14.5	X	192.97351	93.74705	213.36891	4.59123	0.1241694	0.17125708	3.2114687	21	1 13.5	19.7
55240 2001 RP_{85}	13.9	X	317.03895	71.50078	187.36962	10.48109	0.0636744	0.18035346	3.1025567	21	4 2.7	18.1
55241 2001 RL_{86}	15.5	X	217.17481	255.79188	198.85164	5.27396	0.0816140	0.24020503	2.5629963	21	8 4.1	19.1
55242 2001 RP_{86}	14.4	X	156.26491	130.31047	289.24126	1.05536	0.2030800	0.17654420	3.1470266	21	4 24.5	19.7
55243 2001 RF_{87}	15.0	X	102.60581	109.24494	342.14303	3.23178	0.1867564	0.22232399	2.6986413	21	4 3.9	18.7
55244 2001 RA_{89}	14.8	X	7.23356	95.92728	43.75418	2.99791	0.1446937	0.26721645	2.3872281	21	—	—
55245 2001 RQ_{92}	14.4	X	146.40150	50.91935	174.06507	13.77827	0.0789138	0.20195648	2.8771611	21	11 1.8	18.9
55246 2001 RM_{93}	14.8	X	58.06065	272.50553	76.01622	2.19317	0.1609351	0.20551303	2.8438705	21	—	—
55247 2001 RO_{93}	14.6	X	338.28076	337.92212	34.25993	5.47312	0.1044229	0.19662070	2.9289810	21	10 1.2	18.1
55248 2001 RF_{99}	14.9	X	4.19051	301.34188	150.17794	7.48540	0.1055525	0.21380702	2.7698404	21	—	—
55249 2001 RQ_{102}	15.5	X	121.24309	324.45038	136.72963	7.46552	0.0541253	0.28063261	2.3105248	21	4 19.7	18.4
55250 2001 RX_{102}	15.0	X	11.64469	286.27240	70.18579	3.11985	0.0827888	0.20177653	2.8788715	21	11 1.3	18.7
55251 2001 RZ_{105}	15.2	X	88.66177	298.32179	284.24855	1.00163	0.0622082	0.19526571	2.9425153	21	8 20.0	19.3
55252 2001 RZ_{107}	15.1	X	91.52914	216.43437	11.00523	1.46639	0.0392111	0.19551823	2.9399811	21	8 27.5	19.1
55253 2001 RZ_{110}	14.6	X	160.02962	104.49974	78.77353	2.99665	0.0268710	0.19837347	2.9117025	21	9 23.9	18.7
55254 2001 RP_{117}	14.6	X	322.45896	52.81248	167.56732	0.93397	0.0913206	0.17667145	3.1455152	21	2 17.5	18.7
55255 2001 RJ_{118}	15.1	X	94.80536	11.61943	70.93081	1.11392	0.1523467	0.17271428	3.1933796	21	3 16.9	19.6
55256 2001 RZ_{119}	13.9	X	140.90179	291.26920	122.79968	6.44325	0.1439369	0.17590169	3.1546853	21	4 3.1	18.8
55257 2001 RQ_{120}	15.5	X	300.23181	63.34613	89.09645	2.37535	0.1327385	0.26201198	2.4187368	21	—	—
55258 2001 RX_{120}	15.2	X	219.32707	85.40748	122.37836	4.29386	0.0327952	0.20976811	2.8052812	21	—	—
55259 2001 RH_{122}	15.6	X	257.79577	273.40076	164.04542	8.54400	0.0354911	0.24551677	2.5258949	21	9 10.8	18.9
55260 2001 RG_{123}	16.1	X	241.88221	249.53929	0.94410	6.02586	0.0395515	0.26858702	2.3791000	21	—	—
55261 2001 RV_{125}	14.7	X	96.56634	218.94523	81.47456	3.99404	0.0123980	0.20546004	2.8443594	21	12 1.2	18.7
55262 2001 RE_{126}	16.0	X	176.05300	338.34015	129.21921	5.72529	0.0796317	0.28792733	2.2713329	21	7 6.6	19.0
55263 2001 RR_{126}	15.6	X	186.20455	281.57932	73.14262	4.33874	0.0938233	0.22501872	2.6770529	21	2 26.1	19.6
55264 2001 RW_{127}	15.0	X	85.56585	27.56986	84.08890	3.26517	0.1583004	0.22470561	2.6795391	21	4 5.8	18.4
55265 2001 RF_{130}	14.7	X	194.51093	295.39929	164.88647	11.65386	0.1213896	0.18829696	3.0146751	21	7 14.8	19.7
55266 2001 RX_{130}	15.3	X	76.96412	49.75746	141.48012	3.98492	0.1349411	0.23718321	2.5847195	21	7 5.8	18.5
55267 2001 RP_{132}	11.9	X	211.27789	18.35100	15.66619	17.34878	0.0303383	0.08465923	5.1367273	21	5 16.2	19.0
55268 2001 RE_{133}	15.0	X	186.34415	54.23006	67.90093	5.56967	0.1581312	0.23954452	2.5677056	21	8 6.5	19.1
55269 2001 RG_{141}	14.5	X	48.71374	58.26501	41.36749	10.20981	0.0757523	0.21784268	2.7355253	21	1 14.6	18.0
55270 2001 RT_{147}	14.2	X	176.43610	48.94862	99.90812	10.55102	0.0915325	0.19806813	2.9146941	21	9 1.1	18.8
55271 2001 RV_{150}	15.6	X	347.09704	25.71509	129.79100	7.51389	0.0572370	0.26793317	2.3829690	21	—	—
55272 2001 RG_{155}	13.5	X	296.89543	44.56027	139.45889	9.53302	0.1867802	0.21456715	2.7632948	21	—	—
55273 2001 SY	14.6	X	17.92738	357.11726	213.77109	4.72492	0.0639285	0.23043331	2.6349510	21	4 22.0	17.7
55274 2001 SN_{3}	15.1	X	224.34515	242.36194	186.62917	1.44158	0.0666168	0.18748495	3.0233733	21	7 11.6	19.6
55275 2001 SX_{9}	13.8	X	66.08149	192.23253	38.08824	7.40733	0.1130108	0.18406806	3.0606741	21	8 11.3	18.0
55276 Kenlarner	15.7	X	345.82778	79.98314	34.46614	5.14861	0.1415095	0.26149828	2.4219034	21	—	—
55277 2001 SV_{15}	14.6	X	157.23075	68.79692	53.33108	1.21366	0.1409200	0.18576405	3.0420168	21	7 7.4	19.4
55278 2001 SP_{17}	14.6	X	339.25032	186.13417	63.81518	2.09718	0.1302893	0.18278945	3.0749305	21	4 15.0	18.4
55279 2001 SX_{17}	14.1	X	137.09560	153.97324	59.69892	3.17615	0.0316248	0.19794663	2.9158867	21	10 4.8	18.2
55280 2001 SC_{20}	15.0	X	200.06003	344.92111	105.11596	5.85324	0.1003024	0.23600611	2.5933067	21	7 9.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55281 2001 SH_{20}	14.6	X	185.09319	180.20500	98.96173	1.80792	0.0337344	0.21261376	2.7801943	21	—	—
55282 2001 SK_{20}	14.7	X	347.95188	307.87864	68.34558	2.91064	0.1061730	0.19799321	2.9154293	21	10 22.4	18.2
55283 2001 SN_{20}	13.8	X	132.37456	199.76461	179.22781	10.29011	0.0740050	0.16874244	3.2432953	21	1 31.5	18.6
55284 2001 SN_{21}	14.4	X	71.60723	59.55103	33.70683	7.17632	0.1004020	0.21853469	2.7297474	21	2 13.6	17.8
55285 2001 SQ_{22}	14.8	X	87.64596	237.98496	322.88480	3.03586	0.1663208	0.23924974	2.5698142	21	8 7.5	18.2
55286 2001 SS_{22}	14.9	X	18.22221	290.27833	193.18790	13.14591	0.1147776	0.21649144	2.7468961	21	—	—
55287 2001 SC_{24}	15.4	X	111.24486	327.75675	182.44486	2.57831	0.1096090	0.23373613	2.6100700	21	6 20.9	19.0
55288 2001 SZ_{30}	14.3	X	295.39111	2.13654	130.78721	2.83555	0.0203275	0.20714315	2.8289308	21	—	—
55289 2001 SB_{37}	14.7	X	93.81360	206.93022	23.21292	10.61310	0.0433049	0.19223532	2.9733584	21	9 7.2	19.0
55290 2001 SV_{37}	14.5	X	252.77614	98.29060	137.10580	4.44216	0.1882209	0.21714556	2.7413769	21	—	—
55291 2001 SG_{38}	15.7	X	22.34061	128.17882	29.71521	7.05125	0.0687450	0.27148526	2.3621377	21	2 9.4	18.3
55292 2001 SN_{39}	14.9	X	164.83966	282.59544	83.20543	3.67616	0.1063418	0.22113167	2.7083332	21	2 18.2	18.9
55293 2001 SY_{39}	16.0	X	275.05018	116.75338	147.05122	6.84251	0.1027569	0.27343756	2.3508808	21	1 26.3	19.1
55294 2001 ST_{42}	14.8	X	55.90590	106.32692	133.29073	1.54554	0.0781995	0.19032255	2.9932470	21	8 1.2	18.8
55295 2001 SJ_{43}	15.2	X	221.22177	304.90439	83.74859	3.42319	0.1243525	0.23267864	2.6179722	21	5 12.8	19.2
55296 2001 SG_{44}	15.4	X	34.62650	248.03842	117.14239	4.85203	0.0521680	0.25391240	2.4699042	21	12 20.6	18.6
55297 2001 SO_{44}	15.2	X	138.28230	14.28009	79.47556	4.17453	0.0824352	0.22919655	2.6444214	21	5 7.3	18.8
55298 2001 ST_{44}	15.4	X	6.46161	103.05802	75.25030	3.48736	0.1495107	0.27317388	2.3523933	21	1 31.7	17.6
55299 2001 SX_{44}	15.0	X	141.64470	136.80104	18.87197	13.24612	0.1141205	0.23820171	2.5773464	21	8 8.4	19.1
55300 2001 SL_{45}	14.7	X	201.43687	224.08332	159.85030	10.91542	0.1873710	0.17946868	3.1127454	21	4 22.4	20.0
55301 2001 SR_{46}	14.7	X	260.52220	12.28905	94.16291	3.26039	0.0436621	0.19823829	2.9130259	21	10 17.4	18.6
55302 2001 SC_{48}	14.1	X	120.62632	274.93475	69.58159	5.46928	0.0792525	0.21294716	2.7772916	21	—	—
55303 2001 SB_{51}	15.0	X	329.71008	346.96141	132.66389	4.53325	0.0490464	0.21027192	2.8007985	21	—	—
55304 2001 SM_{51}	15.0	X	284.42426	154.85286	131.77611	3.35348	0.0268030	0.22793823	2.6541447	21	3 27.1	18.5
55305 2001 SE_{53}	14.3	X	70.26133	130.39459	80.40291	3.05287	0.0301947	0.18550337	3.0448660	21	7 7.0	18.4
55306 2001 SP_{53}	14.0	X	207.34368	307.57564	50.50951	6.01238	0.1814004	0.17698769	3.1417672	21	3 27.7	19.2
55307 2001 SO_{56}	14.0	X	177.61747	285.18192	75.68235	6.04568	0.1535641	0.17266586	3.1939766	21	3 6.8	19.3
55308 2001 SW_{56}	14.7	X	300.96104	159.20987	61.72024	6.00490	0.1037444	0.21919434	2.7242679	21	1 13.4	18.6
55309 2001 SN_{58}	14.0	X	302.29189	279.70535	28.69541	11.08712	0.1572248	0.18405061	3.0608676	21	4 30.2	18.1
55310 2001 SY_{58}	14.7	X	104.18655	195.09580	100.64224	3.15689	0.0572679	0.20276659	2.8694927	21	12 8.3	18.9
55311 2001 SR_{59}	14.6	X	112.01614	159.62922	137.82653	2.61407	0.0521445	0.20359189	2.8617327	21	12 18.7	18.8
55312 2001 SK_{60}	14.5	X	169.88335	106.42218	280.50036	3.06527	0.0988473	0.17410128	3.1763968	21	3 22.9	19.5
55313 2001 SS_{63}	14.9	X	229.88734	178.49709	169.80044	0.64980	0.0783029	0.22724039	2.6595757	21	4 3.0	18.8
55314 2001 SC_{64}	14.4	X	32.07489	46.44919	42.99191	7.95296	0.1274465	0.21101830	2.7941902	21	—	—
55315 2001 SJ_{65}	14.7	X	92.38766	5.57098	188.05761	6.28204	0.0677594	0.28466200	2.2886693	21	7 19.5	17.6
55316 2001 SQ_{66}	13.8	X	302.35042	162.25105	186.77268	5.81670	0.1563669	0.18757829	3.0223703	21	6 23.8	17.8
55317 2001 SF_{67}	14.5	X	45.76501	226.93768	38.28261	15.31007	0.1529952	0.24015622	2.5633436	21	9 14.1	17.9
55318 2001 SR_{71}	15.3	X	134.26373	113.95607	85.75850	3.43567	0.1229972	0.29154494	2.2525047	21	9 27.8	18.5
55319 Takanashi	14.1	X	280.23970	159.60735	186.96856	6.03805	0.0957245	0.18675315	3.0312663	21	5 31.6	18.4
55320 Busler	14.4	X	345.57413	16.81907	290.42428	5.02471	0.0614598	0.19157576	2.9801789	21	7 15.8	18.0
55321 2001 SC_{78}	15.2	X	145.05727	168.23919	194.74965	1.95517	0.0552897	0.21997734	2.7177996	21	1 16.5	18.8
55322 2001 SH_{82}	15.8	X	325.64906	289.20777	192.56773	5.08018	0.1151644	0.26216481	2.4177967	21	—	—
55323 2001 SN_{94}	15.1	X	15.81154	246.28592	234.61422	6.20531	0.1290000	0.21621663	2.7492231	21	—	—
55324 2001 SH_{106}	13.5	X	300.06122	302.88879	358.39810	14.60130	0.0858633	0.18057666	3.0999996	21	4 24.8	18.0
55325 2001 SL_{106}	14.0	X	181.88860	87.26002	349.65392	8.85689	0.0883713	0.18063523	3.0993295	21	6 3.1	18.9
55326 2001 SR_{107}	13.8	X	96.71262	27.67819	18.40640	14.32661	0.0688550	0.21287790	2.7778940	21	1 17.3	17.7
55327 2001 SD_{109}	14.0	X	174.08153	310.49808	19.71041	9.28487	0.1626963	0.21422381	2.7662466	21	1 22.1	18.5
55328 2001 SJ_{110}	13.6	X	326.98887	11.29208	10.79507	10.87651	0.1147578	0.19258589	2.9697489	21	9 24.4	17.0
55329 2001 SQ_{111}	15.0	X	108.48529	346.09071	317.94726	6.47822	0.1425117	0.30424333	2.1893843	21	—	—
55330 2001 SD_{114}	14.9	X	195.51696	122.17767	303.19439	3.22955	0.0729762	0.23329032	2.6133941	21	6 2.6	18.8
55331 Putzi	13.4	X	209.96875	122.69880	252.35705	12.21491	0.1904767	0.17859654	3.1228708	21	4 12.6	18.8
55332 2001 SR_{117}	15.2	X	256.21915	209.84638	296.99575	5.36408	0.0608666	0.25572412	2.4582248	21	12 8.6	18.3
55333 2001 SZ_{117}	15.1	X	148.91162	233.35492	256.95882	5.27788	0.3612926	0.23346614	2.6120818	21	7 17.9	20.0
55334 2001 SU_{120}	13.9	X	307.37022	6.01823	238.39371	4.22979	0.1147183	0.17793904	3.1305590	21	2 22.1	18.4
55335 2001 SO_{123}	14.2	X	269.74174	213.86617	189.19497	9.94528	0.1201038	0.19254977	2.9701203	21	7 23.9	18.6
55336 2001 SS_{123}	14.9	X	45.01855	191.21719	270.49333	2.71887	0.1783358	0.21812732	2.7331450	21	1 12.1	17.5
55337 2001 SL_{124}	15.6	X	112.85571	116.94015	286.38060	2.05066	0.0721183	0.22117705	2.7079627	21	1 29.5	19.1
55338 2001 SK_{125}	14.6	X	171.78318	286.23725	190.82245	9.30197	0.0272488	0.18990990	2.9975814	21	7 11.7	19.1
55339 2001 SO_{125}	15.2	X	150.98223	235.61603	258.10439	3.38666	0.1181301	0.23813695	2.5778137	21	7 14.5	19.2
55340 2001 ST_{125}	15.9	X	355.18167	216.95526	265.82799	2.13250	0.0971295	0.26498024	2.4006401	21	—	—
55341 2001 SK_{128}	16.0	X	350.57696	275.63148	205.74294	6.24265	0.1320559	0.26447156	2.4037174	21	—	—
55342 2001 SX_{128}	14.9	X	59.47560	353.69829	271.07728	2.78124	0.0507406	0.19478072	2.9473976	21	9 3.0	18.8
55343 2001 SU_{135}	15.3	X	252.40099	282.74533	184.84075	14.21729	0.2306439	0.19434727	2.9517784	21	9 9.5	19.8
55344 2001 SH_{138}	15.5	X	147.90346	141.05549	355.96851	5.57513	0.0564416	0.23698243	2.5861792	21	7 13.3	19.2
55345 2001 SL_{138}	16.0	X	251.21134	55.22372	349.98526	2.36186	0.0744147	0.23861570	2.5743645	21	7 13.3	19.5
55346 2001 SS_{139}	16.1	X	254.47748	216.13154	351.59877	1.05006	0.1308625	0.26293074	2.4130990	21	—	—
55347 2001 SH_{142}	13.9	X	236.78762	92.70999	204.68020	8.14077	0.0593848	0.12461586	3.9696648	21	2 19.8	19.8
55348 2001 SV_{144}	14.8	X	56.16932	283.55421	224.39047	2.68225	0.0962858	0.22654958	2.6649795	21	3 28.8	17.8
55349 2001 SF_{147}	14.7	X	212.50839	270.91014	193.56789	11.46111	0.0939045	0.18968433	2.9999574	21	8 7.3	19.4
55350 2001 SK_{147}	14.2	X	321.72321	191.50023	198.20061	1.48742	0.1071705	0.19499378	2.9452503	21	9 25.1	17.6
55351 2001 ST_{147}	14.2	X	331.75902	285.03277	282.09659	5.80428	0.0722241	0.17385378	3.1794107	21	2 14.7	18.6
55352 2001 SD_{150}	15.8	X	103.65863	38.25258	284.61070	3.38648	0.0733352	0.25798062	2.4438694	21	—	—
55353 2001 SW_{152}	14.5	X	39.95488	246.87079	252.82855	1.40919	0.0154875	0.22057702	2.7128714	21	2 17.9	18.0
55354 2001 SQ_{154}	14.2	X	339.93428	19.77635	203.55938	4.42174	0.0925306	0.17583659	3.1554639	21	3 16.3	18.4
55355 2001 SD_{155}	14.7	X	94.42071	294.37071	204.02455	6.85947	0.1195018	0.17758094	3.1347662	21	5 20.1	19.1
55356 2001 SY_{157}	14.7	X	178.16455	220.03431	233.26204	5.70586	0.1621534	0.18335347	3.0686213	21	6 21.5	19.8
55357 2001 SY_{160}	14.3	X	145.72740	47.10793	289.79889	3.79748	0.1631009	0.21493844	2.7601116	21	—	—
55358 2001 SP_{161}	14.6	X	348.79030	59.82050	232.85187	4.02218	0.0240541	0.23553790	2.5967423	21	7 1.8	17.9
55359 2001 SV_{171}	14.6	X	183.96756	111.37818	154.21898	4.97239	0.0612930	0.21064869	2.7974577	21	—	—
55360 2001 SK_{173}	14.7	X	271.99594	59.15414	125.84160	4.28456	0.0255311	0.21050332	2.7987455	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55361 2001 SN_{176}	15.0	X	137.72630	120.40521	36.72651	13.05355	0.1090560	0.23604665	2.5930098	21	8 5.0	19.1
55362 2001 SM_{178}	14.5	X	9.87830	50.72128	194.57323	14.95634	0.1017714	0.23100751	2.6305829	21	5 29.5	17.7
55363 2001 SZ_{178}	14.3	X	124.94176	300.05577	175.14116	9.83896	0.0366949	0.17645416	3.1480970	21	5 18.0	18.9
55364 2001 ST_{180}	15.1	X	329.83329	53.74006	34.30547	2.21921	0.0562970	0.20981075	2.8049012	21	12 27.4	18.6
55365 2001 ST_{181}	14.7	X	38.70458	180.43450	345.99467	8.39440	0.0627983	0.18116270	3.0933106	21	3 29.3	18.7
55366 2001 SA_{184}	15.9	X	299.41055	185.71882	349.42876	2.41249	0.0922827	0.26727934	2.3868536	21	—	—
55367 2001 SX_{208}	14.7	X	200.40029	100.38052	13.78523	10.16933	0.0296217	0.19183767	2.9774658	21	8 17.7	19.1
55368 2001 SJ_{218}	14.6	X	53.55911	53.29706	83.76325	2.36946	0.1396779	0.17342719	3.1846222	21	3 25.7	18.5
55369 2001 SX_{224}	15.6	X	262.77311	131.11114	71.93577	3.16590	0.1559943	0.26321136	2.4113836	21	—	—
55370 2001 SG_{232}	14.9	X	69.23546	244.37206	29.27359	2.63700	0.0445357	0.19481453	2.9470567	21	9 28.3	18.9
55371 2001 SP_{239}	14.5	X	283.28636	254.37886	119.88764	4.61983	0.1350912	0.18784185	3.0195425	21	7 3.8	18.7
55372 2001 SZ_{239}	14.2	X	197.43852	301.80478	113.26416	5.67563	0.1543450	0.18015389	3.1048476	21	5 24.7	19.3
55373 2001 SE_{240}	15.7	X	263.01372	75.86865	129.12162	2.71891	0.1515888	0.26290493	2.4132569	21	—	—
55374 2001 SE_{244}	15.8	X	245.07837	100.51503	79.27137	2.41454	0.0624968	0.25642081	2.4537701	21	—	—
55375 2001 SW_{247}	14.5	X	63.50257	302.69882	188.16218	10.14177	0.0731440	0.17200369	3.2021687	21	3 23.3	18.8
55376 2001 SM_{250}	15.1	X	212.71392	61.98294	174.89932	6.39819	0.0964837	0.25927343	2.4357387	21	—	—
55377 2001 SV_{254}	14.4	X	68.62672	291.94427	151.15145	6.21222	0.0546798	0.21549704	2.7553399	21	1 18.9	17.9
55378 2001 SA_{255}	14.3	X	70.90184	117.24922	142.96680	5.89408	0.0882005	0.24132680	2.5550477	21	9 25.7	17.6
55379 2001 SW_{255}	14.3	X	170.59301	156.80786	150.07123	7.60402	0.1191703	0.21205570	2.7850698	21	—	—
55380 2001 SB_{264}	14.7	X	348.42500	259.42346	287.36494	21.34069	0.3030310	0.27115236	2.3640707	21	—	—
55381 Lautakwah	14.1	X	134.02051	328.93861	53.93607	6.38680	0.1020039	0.16878800	3.2427117	21	2 14.7	19.0
55382 Kootinlok	14.7	X	140.15827	308.69384	4.05493	2.53372	0.0533355	0.20940864	2.8084907	21	—	—
55383 Cheungkwokwing	14.8	X	9.51632	159.68978	164.25785	2.06499	0.0777061	0.19160086	2.9799186	21	9 13.8	18.3
55384 Muiyimfong	15.1	X	250.65297	127.59009	118.26527	3.55236	0.1442016	0.26409958	2.4059739	21	—	—
55385 2001 SJ_{271}	15.7	X	35.81738	347.47566	195.66534	3.77256	0.1275207	0.27666206	2.3325787	21	4 8.0	17.5
55386 2001 SY_{271}	14.3	X	210.12386	200.74416	207.31791	0.51890	0.1473344	0.18135387	3.0911364	21	5 26.9	19.1
55387 2001 SD_{272}	15.1	X	292.35142	231.71368	350.38086	1.98211	0.1451500	0.26815962	2.3816273	21	—	—
55388 2001 SN_{276}	15.9	X	319.20158	239.92114	101.19935	7.72609	0.1727497	0.29407523	2.2395654	21	7 8.8	17.6
55389 2001 SX_{276}	14.0	X	75.15562	163.21133	0.04073	12.93519	0.1136028	0.22565515	2.6720170	21	5 17.5	17.6
55390 2001 SY_{276}	14.4	X	262.77188	57.93888	318.89094	9.05267	0.1132585	0.18372597	3.0644722	21	6 14.7	19.0
55391 2001 ST_{277}	14.8	X	230.24556	285.35921	340.67668	11.86411	0.1974463	0.26618601	2.3933850	21	—	—
55392 2001 SA_{280}	14.3	X	78.83196	289.88344	59.73629	2.91318	0.0772599	0.20563857	2.8427129	21	—	—
55393 2001 SB_{280}	14.3	X	79.80996	281.90585	72.34273	3.11100	0.0834471	0.20636766	2.8360135	21	—	—
55394 2001 SN_{280}	14.7	X	56.00449	0.96454	211.32917	5.64790	0.1229667	0.23321623	2.6139476	21	7 1.5	17.9
55395 2001 SY_{285}	14.7	X	223.76865	288.86982	107.18818	14.87555	0.2030757	0.23257539	2.6187470	21	5 23.8	19.2
55396 2001 SZ_{287}	14.7	X	152.91507	356.17518	126.23649	14.62972	0.0458171	0.23624846	2.5915329	21	6 28.4	18.4
55397 Hackman	14.1	X	145.04722	283.95028	100.89462	6.60263	0.0782850	0.21982370	2.7190658	21	2 17.9	17.9
55398 2001 SX_{289}	13.8	X	7.64472	235.54184	301.80725	7.71192	0.0490553	0.17383999	3.1795788	21	2 27.8	18.1
55399 2001 SQ_{291}	14.5	X	351.20998	138.11777	72.92896	14.13149	0.1190290	0.22337312	2.6901848	21	3 15.9	17.9
55400 2001 SB_{315}	15.5	X	17.98863	277.16556	261.24753	9.38394	0.1582018	0.27538055	2.3398097	21	2 15.6	17.7
55401 2001 SX_{316}	13.9	X	274.39479	268.44980	283.56074	21.24039	0.3150432	0.26486010	2.4013660	21	—	—
55402 2001 SS_{322}	14.5	X	122.35691	349.41463	89.03793	6.60335	0.1539588	0.17455366	3.1709063	21	4 14.8	19.4
55403 2001 SG_{325}	14.0	X	5.44970	78.03550	107.71879	10.38839	0.1300578	0.17208705	3.2011345	21	3 10.9	18.0
55404 2001 SY_{343}	13.8	X	187.63390	258.85277	113.76545	14.68621	0.0862490	0.17433897	3.1735090	21	3 31.2	18.9
55405 2001 SV_{348}	14.2	X	137.75868	230.91576	294.08092	9.05313	0.0382480	0.18811810	3.0165856	21	8 2.0	18.6
55406 2001 TD_{1}	14.0	X	18.69941	23.62836	143.45059	11.32280	0.1211455	0.17475568	3.1684620	21	3 5.8	17.8
55407 2001 TQ_{1}	14.7	X	101.55042	218.32236	336.28835	9.44493	0.0280724	0.18393875	3.0621084	21	7 28.3	19.0
55408 2001 TC_{2}	18.8	X	261.06218	353.52286	193.83317	30.39127	0.2245834	0.85455535	1.0997887	21	—	—
55409 2001 TF_{2}	15.1	X	254.05309	58.67759	272.82014	2.27394	0.1894026	0.23147741	2.6270216	21	3 27.8	19.2
55410 2001 TB_{4}	15.4	X	247.20606	317.43086	268.74519	1.53278	0.1690532	0.26295800	2.4129323	21	—	—
55411 2001 TM_{4}	14.7	X	171.55862	127.75023	355.62905	4.81815	0.1230568	0.18439277	3.0570799	21	7 23.3	19.6
55412 2001 TO_{4}	15.3	X	339.96601	275.29438	295.13194	1.26123	0.1520717	0.27269324	2.3551566	21	1 31.4	17.9
55413 2001 TA_{9}	13.8	X	324.61723	94.83709	265.21428	9.17246	0.1279398	0.18999112	2.9967270	21	8 14.3	17.5
55414 2001 TM_{9}	14.4	X	104.18510	242.99405	197.48528	12.62769	0.1649008	0.22622478	2.6675297	21	3 18.4	17.9
55415 2001 TA_{11}	15.4	X	304.18559	98.65471	209.04253	1.91721	0.0992833	0.23253573	2.6190448	21	5 8.2	18.5
55416 2001 TF_{16}	14.7	X	118.22808	37.52044	93.73126	12.85901	0.1429642	0.22945324	2.6424489	21	6 9.2	18.5
55417 2001 TR_{16}	13.5	X	73.66258	27.09706	165.33133	26.51494	0.2306296	0.17489513	3.1667776	21	7 16.8	18.4
55418 Bianciardi	13.9	X	322.49091	148.91785	236.23922	11.77185	0.1088340	0.19569309	2.9382295	21	9 15.1	17.7
55419 2001 TF_{19}	11.2	X	328.20930	167.45756	110.46137	28.68454	0.0466344	0.08179226	5.2560714	21	5 28.8	18.2
55420 2001 TV_{20}	13.1	X	178.78613	161.06288	248.82890	21.58434	0.0909419	0.17517715	3.1633779	21	4 27.1	18.2
55421 2001 TJ_{24}	14.9	X	107.67571	270.49683	235.41750	4.28249	0.1139596	0.18068564	3.0987530	21	6 12.9	19.5
55422 2001 TW_{30}	14.6	X	332.19768	328.86608	110.48850	6.18521	0.0923254	0.20165120	2.8800642	21	12 18.6	18.1
55423 2001 TT_{33}	14.5	X	190.13317	47.12055	7.44592	9.87990	0.0063414	0.17661800	3.1461498	21	5 14.0	19.1
55424 2001 TQ_{34}	14.9	X	28.25245	44.64858	258.46433	11.81854	0.1613531	0.24123505	2.5556955	21	9 25.6	18.0
55425 2001 TR_{43}	14.4	X	145.17473	351.01439	24.97305	9.00468	0.1804478	0.21235284	2.7824711	21	2 21.2	18.8
55426 2001 TL_{45}	14.4	X	167.76833	112.26160	319.66284	2.93678	0.0966788	0.22757853	2.6569407	21	5 11.4	18.4
55427 2001 TF_{47}	14.8	X	79.81555	322.75119	92.25469	8.08583	0.0738752	0.21440198	2.7647139	21	1 1.7	18.2
55428 Cappellaro	14.9	X	158.12134	45.50623	109.11899	8.06283	0.1791362	0.23673985	2.5879456	21	8 21.9	19.2
55429 2001 TQ_{52}	14.4	X	28.98725	84.47713	92.63967	3.65452	0.0861430	0.17492134	3.1664613	21	4 3.8	18.4
55430 2001 TY_{52}	14.1	X	33.49916	128.06556	180.38323	1.62320	0.1099457	0.19639925	2.9311823	21	10 3.9	17.6
55431 2001 TG_{55}	14.4	X	297.84958	45.43372	277.95884	3.96812	0.0354232	0.18234633	3.0799101	21	6 1.7	18.7
55432 2001 TR_{56}	13.6	X	356.28834	227.38099	71.60413	10.64130	0.0057191	0.18261272	3.0769140	21	7 22.5	18.0
55433 2001 TU_{60}	15.4	X	147.69264	265.98927	358.94852	2.31179	0.0950175	0.25481283	2.4640822	21	12 27.1	19.0
55434 2001 TZ_{66}	15.0	X	316.09075	302.56055	161.18011	2.37178	0.0229301	0.20302431	2.8670637	21	12 26.7	18.8
55435 2001 TY_{67}	14.5	X	151.42687	308.94242	149.39886	2.64313	0.1649176	0.17714679	3.1398859	21	6 4.3	19.6
55436 2001 TL_{69}	15.5	X	101.90483	174.71933	23.06827	3.55254	0.0879629	0.23816861	2.5775853	21	8 11.5	19.1
55437 2001 TB_{78}	14.7	X	217.89232	235.14312	80.94698	2.98372	0.0636450	0.21928979	2.7234774	21	2 11.4	18.7
55438 2001 TJ_{78}	15.2	X	83.62474	12.54315	212.24791	2.96864	0.0920837	0.28671988	2.2777052	21	8 25.8	17.9
55439 2001 TZ_{84}	13.9	X	66.73188	284.13369	224.44023	2.06646	0.1242875	0.12485766	3.9645380	21	4 30.6	19.2
55440 2001 TY_{85}	15.5	X	358.05920	263.06077	284.33570	3.97237	0.1687598	0.27264385	2.3554411	21	1 25.3	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55441 2001 TS_{87}	12.5	X	67.28243	313.00800	237.51730	10.94722	0.0384059	0.08324109	5.1949040	21	6 10.8	19.3
55442 2001 TQ_{92}	14.8	X	151.01586	277.81266	223.94905	8.96705	0.0503126	0.18633558	3.0357932	21	7 18.6	19.4
55443 2001 TY_{92}	14.9	X	150.04126	154.00119	309.57911	4.14769	0.1013967	0.18031766	3.1029673	21	6 4.6	19.8
55444 2001 TC_{96}	13.9	X	213.48497	67.31378	270.52551	2.84324	0.1281342	0.17452376	3.1712685	21	3 7.1	18.9
55445 2001 TB_{102}	14.4	X	101.31479	121.35668	346.05928	3.29949	0.0523761	0.17412692	3.1760849	21	4 8.7	18.8
55446 2001 TZ_{108}	14.2	X	38.17850	44.40157	245.41531	9.08352	0.0825981	0.19292953	2.9662215	21	9 7.3	18.3
55447 2001 TJ_{111}	15.2	X	206.27918	60.31319	259.29176	3.95620	0.0215324	0.21857497	2.7294120	21	1 31.4	19.0
55448 2001 TT_{114}	15.2	X	142.85715	256.09027	341.68768	4.38910	0.0973948	0.29731760	2.2232534	21	11 23.2	18.3
55449 2001 TB_{118}	13.8	X	113.89076	319.41339	318.93518	18.99607	0.0602149	0.20277313	2.8694309	21	11 24.5	18.4
55450 2001 TG_{120}	14.7	X	305.71609	19.12368	278.62959	11.80012	0.2528673	0.23391422	2.6087450	21	3 26.6	18.7
55451 2001 TM_{123}	14.2	X	44.58181	250.53181	262.08427	10.28975	0.1380422	0.22365931	2.6878894	21	3 14.6	17.4
55452 2001 TE_{125}	14.4	X	10.89524	312.96985	321.84400	10.19634	0.0637263	0.18711512	3.0273558	21	7 12.5	18.4
55453 2001 TZ_{127}	13.9	X	194.18546	16.14669	37.65353	16.10123	0.0899439	0.18160419	3.0882952	21	5 17.1	18.7
55454 2001 TJ_{128}	15.2	X	53.95542	346.74592	157.39855	10.46821	0.1550681	0.27270833	2.3550698	21	3 19.8	17.2
55455 2001 TR_{131}	14.4	X	318.61741	66.96926	128.74088	12.75869	0.2090278	0.22264583	2.6960401	21	—	—
55456 2001 TW_{131}	15.3	X	62.90492	331.60478	104.67329	7.48922	0.1326017	0.26690719	2.3890718	21	—	—
55457 2001 TH_{133}	12.0	X	284.92988	262.17640	77.88980	16.21590	0.1808458	0.08456445	5.1405647	21	5 23.4	18.9
55458 2001 TK_{137}	14.0	X	328.12023	219.31162	121.24830	11.22365	0.1237321	0.19151061	2.9808548	21	7 29.1	17.4
55459 2001 TW_{139}	15.5	X	314.03981	3.47984	108.10567	7.28733	0.0895599	0.25763652	2.4460450	21	—	—
55460 2001 TW_{148}	12.1	X	35.40193	107.73640	126.71913	7.85956	0.0350314	0.08362991	5.1787899	21	6 22.9	18.9
55461 2001 TC_{154}	15.1	X	147.03421	77.18593	36.25441	14.90525	0.0590917	0.23451935	2.6042555	21	6 6.7	18.9
55462 2001 TB_{160}	13.4	X	59.06368	142.75668	98.25719	14.11612	0.1434227	0.18862624	3.0111656	21	8 21.1	17.5
55463 2001 TL_{160}	15.5	X	245.12577	286.51175	270.59473	1.34164	0.1475511	0.25518675	2.4616746	21	—	—
55464 2001 TG_{165}	14.8	X	101.78559	139.83851	86.45541	11.63678	0.0626764	0.24046460	2.5611516	21	9 20.8	18.5
55465 2001 TS_{167}	14.8	X	229.67827	34.27151	281.21570	10.57269	0.1849922	0.22230261	2.6988144	21	2 13.9	19.5
55466 2001 TM_{168}	13.4	X	242.90135	51.69495	274.11323	12.55918	0.1217190	0.22434472	2.6824120	21	3 10.1	17.8
55467 2001 TH_{173}	15.2	X	89.65505	36.50893	171.02077	1.54106	0.1546118	0.28470451	2.2884415	21	8 19.3	18.1
55468 2001 TE_{195}	14.7	X	217.86662	6.03298	69.59640	10.30244	0.1311868	0.23626705	2.5913969	21	7 8.6	18.7
55469 2001 TT_{205}	14.7	X	90.34742	136.85156	62.00015	14.20787	0.1267286	0.23758589	2.5817982	21	8 7.0	18.5
55470 2001 TS_{226}	14.2	X	162.60349	276.19016	149.79912	17.20808	0.1209720	0.17786073	3.1314778	21	5 8.9	19.4
55471 2001 TZ_{226}	13.8	X	148.01675	150.18491	23.66493	16.94257	0.1354501	0.19567362	2.9384245	21	9 8.0	18.7
55472 2001 TJ_{227}	14.5	X	205.59621	335.88611	42.14192	15.95271	0.1550597	0.23050254	2.6344234	21	4 16.1	18.8
55473 2001 TK_{227}	14.4	X	269.58411	312.92013	91.12438	11.20012	0.1708379	0.24142354	2.5543651	21	7 21.7	17.9
55474 2001 TY_{229}	12.0	X	139.65652	327.22019	149.61567	18.00006	0.0924644	0.08319356	5.1968828	21	6 14.3	19.4
55475 2001 TO_{233}	14.3	X	340.54646	253.39680	74.72332	12.58663	0.1412434	0.19150992	2.9808620	21	8 4.9	17.9
55476 2001 TS_{239}	12.8	X	303.23968	175.85208	72.42165	25.59212	0.1536934	0.17674542	3.1446376	21	3 2.5	17.8
55477 Soroban	14.2	X	237.17853	204.40240	115.98566	2.75894	0.2009149	0.17580573	3.1558331	21	3 6.7	19.5
55478 2001 UH_{7}	15.0	X	184.50946	4.61580	97.17662	14.59314	0.2520427	0.23398788	2.6081975	21	7 7.0	19.5
55479 2001 UO_{15}	14.5	X	3.45953	14.39827	227.28682	12.21816	0.1367766	0.23052085	2.6342839	21	5 9.9	17.1
55480 2001 UO_{20}	14.9	X	67.31310	156.08236	83.39495	9.95965	0.1633653	0.23826735	2.5768731	21	9 7.5	18.5
55481 2001 UN_{21}	13.9	X	124.17132	272.43081	264.83861	9.95778	0.0656444	0.18966328	3.0001793	21	8 2.2	18.5
55482 2001 UJ_{22}	15.2	X	358.96178	292.58969	270.21544	6.70335	0.0935435	0.27538986	2.3397570	21	2 24.9	17.9
55483 2001 UD_{23}	13.7	X	35.10849	180.16461	250.13410	13.67867	0.1033287	0.16005222	3.3596568	21	—	—
55484 2001 UC_{24}	13.4	X	156.63630	185.12785	244.33231	12.17249	0.1470209	0.22607268	2.6687260	21	4 29.3	17.6
55485 2001 UM_{25}	14.8	X	275.25424	26.58161	334.11942	9.20003	0.0461377	0.18386363	3.0629424	21	6 19.3	19.2
55486 2001 UR_{33}	15.1	X	186.59296	117.17335	131.81721	6.97327	0.0961847	0.25650414	2.4532387	21	—	—
55487 2001 UR_{35}	14.4	X	153.27664	280.97057	156.32550	9.78587	0.0810047	0.17544955	3.1601028	21	5 8.7	19.3
55488 2001 UZ_{44}	14.4	X	194.94064	206.41425	57.37886	2.70314	0.0428470	0.20886308	2.8133791	21	—	—
55489 2001 UX_{45}	15.1	X	29.80212	17.27764	181.86418	5.23892	0.1282205	0.27593398	2.3366801	21	4 22.7	17.1
55490 2001 UZ_{45}	15.1	X	190.20131	66.04482	173.34951	2.52504	0.1316254	0.25508345	2.4623391	21	—	—
55491 2001 UU_{46}	14.1	X	235.15124	223.21078	109.43357	2.61241	0.1980459	0.17678898	3.1441210	21	3 19.4	19.2
55492 2001 UZ_{47}	15.7	X	209.89137	150.63244	131.89202	6.16606	0.0987910	0.26421888	2.4052496	21	—	—
55493 2001 UX_{48}	13.6	X	298.58746	182.12271	74.66584	14.79342	0.1295321	0.22230038	2.6988324	21	2 26.3	17.7
55494 2001 UG_{50}	14.5	X	271.01290	27.17452	66.87287	11.32901	0.0760432	0.19282039	2.9673407	21	10 13.6	18.6
55495 2001 UY_{53}	14.5	X	350.43426	127.98766	214.14393	9.69714	0.0940204	0.19074355	2.9888409	21	9 4.8	18.3
55496 2001 UC_{73}	11.8	X	342.94039	187.27059	101.59352	9.48125	0.0446478	0.08199800	5.2472757	21	6 20.5	18.5
55497 2001 UA_{83}	15.1	X	104.42956	140.03463	115.92217	3.18692	0.0405721	0.19481901	2.9470115	21	10 19.5	19.3
55498 2001 UT_{83}	13.6	X	156.26182	18.97782	69.49153	1.57327	0.2202454	0.12469656	3.9679520	21	5 31.4	20.0
55499 2001 UE_{84}	14.0	X	187.19959	247.63426	62.57750	9.91900	0.1526291	0.21291602	2.7775624	21	1 8.0	18.5
55500 2001 UK_{90}	14.9	X	93.68714	192.63147	72.02073	3.48654	0.0369047	0.19498942	2.9452942	21	10 16.9	19.0
55501 2001 UH_{92}	14.7	X	204.62830	117.20356	42.45104	4.82832	0.0738816	0.19410440	2.9542401	21	10 12.4	19.1
55502 2001 UK_{93}	14.2	X	162.44408	352.78384	117.43649	12.01970	0.0693870	0.18200657	3.0837418	21	6 25.3	18.8
55503 2001 UC_{100}	14.3	X	238.54031	135.36874	67.87223	14.28909	0.0766219	0.20326034	2.8648438	21	—	—
55504 2001 UG_{112}	14.9	X	24.10557	125.11662	223.73391	7.79578	0.0162430	0.19605730	2.9345896	21	10 30.7	19.0
55505 2001 UK_{113}	13.4	X	24.92913	88.45187	93.79627	4.09587	0.1298982	0.12559475	3.9490114	21	4 12.7	18.3
55506 2001 UZ_{116}	15.2	X	146.46086	202.05589	62.38191	8.62894	0.1189887	0.25228463	2.4805169	21	12 23.9	19.0
55507 2001 UG_{122}	15.2	X	303.57407	230.43558	93.42670	2.35203	0.1039455	0.23204293	2.6227515	21	5 29.2	18.3
55508 2001 UE_{124}	14.1	X	250.88862	279.35583	115.67403	13.10704	0.0802267	0.18582364	3.0413664	21	6 28.4	18.5
55509 2001 UA_{140}	15.4	X	156.64473	139.07921	62.98872	2.77298	0.0521780	0.19524114	2.9427621	21	10 12.8	19.8
55510 2001 UU_{160}	14.4	X	60.34538	202.18704	67.90208	10.77510	0.0565028	0.18830342	3.0146061	21	9 18.9	18.7
55511 2001 US_{177}	15.1	X	217.59347	62.09231	268.14084	1.91481	0.0864887	0.22092175	2.7100485	21	2 25.8	19.1
55512 2001 UU_{178}	14.6	X	168.51893	287.14318	147.60786	12.29921	0.1559047	0.17799093	3.1299504	21	5 24.5	19.9
55513 2001 UL_{182}	15.5	X	28.47448	117.25226	113.50157	4.58291	0.0749635	0.23508066	2.6001083	21	6 7.5	18.4
55514 2001 VJ_{6}	14.5	X	103.44930	193.42309	312.79828	0.77944	0.2131042	0.17507721	3.1645817	21	6 20.9	19.3
55515 2001 VS_{18}	14.7	X	352.21599	51.94436	260.20480	1.02885	0.0613781	0.18702144	3.0283666	21	8 1.2	18.6
55516 2001 VE_{24}	14.6	X	176.70098	85.92044	29.71021	1.67834	0.1428938	0.18068238	3.0987902	21	7 17.9	19.5
55517 2001 VE_{29}	14.5	X	164.99873	7.20679	129.42141	1.15845	0.0956345	0.18132345	3.0914821	21	7 31.4	19.3
55518 2001 VR_{40}	16.0	X	198.94996	252.75326	105.12598	3.31842	0.2416402	0.27256399	2.3559012	21	3 11.9	20.0
55519 2001 VA_{43}	14.2	X	334.49723	223.77269	72.37173	24.05215	0.1311092	0.28018166	2.3130032	21	6 2.4	16.4
55520 2001 VM_{44}	13.9	X	339.78120	223.29413	78.49136	15.87914	0.0917638	0.23043463	2.6349409	21	6 26.4	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55521 2001 VG_{49}	14.1	X	73.75470	301.22248	253.61242	13.67861	0.1005267	0.23415586	2.6069500	21	6 29.5	17.5
55522 2001 VY_{50}	14.3	X	65.16698	137.14949	340.68962	7.53235	0.0578637	0.16870472	3.2437788	21	3 8.1	18.5
55523 2001 VB_{51}	13.7	X	320.13466	293.08375	6.91236	11.04910	0.1141704	0.18200393	3.0837716	21	5 19.4	17.8
55524 2001 VP_{55}	14.4	X	350.07488	336.27268	261.32298	6.91441	0.2195795	0.27712870	2.3299596	21	3 13.5	16.7
55525 2001 VW_{55}	14.5	X	175.32806	259.86956	267.76279	9.46886	0.0449992	0.19103328	2.9858182	21	9 14.7	19.0
55526 2001 VV_{58}	14.4	X	108.99991	200.01632	14.93715	9.91604	0.0494447	0.18813557	3.0163989	21	9 5.9	18.7
55527 2001 VN_{59}	14.8	X	160.50823	191.16002	2.83838	4.62031	0.1133577	0.19213942	2.9743477	21	10 5.6	19.4
55528 2001 VF_{77}	14.2	X	255.56002	312.70985	72.82442	14.28078	0.1628928	0.23510954	2.5998954	21	6 9.6	18.0
55529 2001 VC_{88}	14.4	X	88.26055	105.66087	89.17022	10.37890	0.0911657	0.18316341	3.0707437	21	7 19.4	18.7
55530 2001 VV_{93}	13.9	X	22.38454	175.22787	114.89416	21.38669	0.2391812	0.18862346	3.0111952	21	9 15.1	17.6
55531 2001 VL_{121}	13.9	X	306.92707	270.71360	87.33931	11.78800	0.1047801	0.19025103	2.9939970	21	7 21.8	17.8
55532 2001 WG_{2}	16.0	X	2.16068	132.33803	81.48282	38.50765	0.6953673	0.40993475	1.7947043	21	—	—
55533 2001 WN_{8}	14.6	X	46.99003	88.43982	102.41226	6.36007	0.1200869	0.17347640	3.1840200	21	5 22.3	18.6
55534 2001 WU_{23}	14.8	X	26.57557	143.42012	43.41740	1.10892	0.1118472	0.17072485	3.2181396	21	4 12.5	18.7
55535 2001 WD_{27}	15.0	X	33.55564	113.64673	134.18388	4.73655	0.0102100	0.23209974	2.6223236	21	7 3.6	18.5
55536 2001 WQ_{29}	15.0	X	40.66694	298.76740	207.64877	8.75796	0.0921389	0.21624391	2.7489919	21	3 1.1	18.4
55537 2001 WM_{37}	14.7	X	35.70453	234.54879	74.86874	10.42778	0.0396565	0.19219989	2.9737238	21	10 4.2	18.9
55538 2001 WX_{39}	12.3	X	159.04052	242.19463	95.90111	16.56490	0.2590322	0.21302446	2.7766197	21	1 23.7	17.0
55539 2001 WV_{41}	14.7	X	104.91657	57.21343	35.96162	10.91093	0.1980609	0.22306485	2.6926627	21	4 13.4	18.4
55540 2001 WC_{45}	13.7	X	170.74412	29.41566	41.78707	11.87313	0.1761956	0.18032902	3.1028371	21	5 18.3	18.8
55541 2001 WV_{47}	15.2	X	61.32551	108.79537	148.31678	8.43422	0.1687000	0.23916678	2.5704085	21	9 20.9	18.5
55542 2001 XO_{5}	15.1	X	277.20127	121.47439	140.55926	13.76477	0.1409827	0.26911157	2.3760075	21	1 23.4	18.7
55543 Nemeghaire	14.4	X	289.18040	197.64300	94.11214	13.87904	0.1591930	0.22365958	2.6878872	21	3 27.7	18.5
55544 2001 XW_{24}	15.0	X	294.11151	24.16904	85.54284	16.13682	0.0862693	0.24362245	2.5389716	21	12 9.9	18.0
55545 2001 XY_{34}	14.9	X	54.58524	338.22898	306.34055	11.11234	0.0559620	0.24174244	2.5521182	21	9 23.3	18.4
55546 2001 XQ_{48}	13.8	X	311.63382	83.28819	273.85619	12.98964	0.2067840	0.24027750	2.5624809	21	7 11.3	16.5
55547 2001 XA_{49}	14.3	X	10.71056	156.79395	61.72083	13.11705	0.0643124	0.17395728	3.1781495	21	4 30.5	18.4
55548 2001 XB_{50}	15.5	X	311.48031	84.96685	180.01413	0.34016	0.1910503	0.27393872	2.3480127	21	2 28.6	18.4
55549 2001 XC_{59}	15.0	X	174.63807	273.84266	97.30573	5.74664	0.1833450	0.26888033	2.3773696	21	3 7.1	18.7
55550 2001 XW_{70}	15.0	X	78.10428	180.30663	86.48483	14.53714	0.1282803	0.24246659	2.5470343	21	10 24.5	18.8
55551 2001 XZ_{88}	14.5	X	344.68575	209.64428	18.47484	6.69453	0.0448626	0.17364864	3.1819141	21	4 4.1	18.8
55552 2001 XN_{106}	14.6	X	126.59644	98.23336	341.39283	4.75572	0.0711762	0.17046959	3.2213514	21	4 6.9	19.2
55553 2001 XE_{257}	14.7	X	107.12240	85.64474	210.01386	16.35313	0.0688992	0.19995236	2.8963544	21	12 11.5	19.2
55554 2001 XY_{257}	14.4	X	316.64748	346.06733	298.32318	12.10607	0.1574394	0.23083103	2.6319234	21	4 8.0	18.0
55555 DNA	13.6	X	352.30129	42.46374	280.09677	14.61423	0.1322482	0.23996736	2.5646883	21	8 13.2	16.5
55556 2001 YJ_{34}	14.2	X	53.32932	203.99498	69.22122	10.04204	0.1785074	0.18732772	3.0250648	21	9 30.9	18.4
55557 2001 YH_{53}	15.2	X	335.72452	205.52485	62.65603	7.66693	0.0941302	0.27397884	2.3477835	21	4 29.4	17.6
55558 2001 YL_{101}	13.7	X	325.27529	350.82158	268.91843	11.25369	0.1358655	0.16918886	3.2375877	21	4 1.0	18.2
55559 Briancraine	13.8	X	223.94197	188.29321	214.83880	19.12103	0.1501259	0.17971835	3.1098619	21	6 2.7	18.9
55560 2001 YB_{136}	14.5	X	143.26246	137.35142	1.30976	16.38659	0.0361730	0.18156096	3.0887854	21	7 10.3	19.3
55561 Madenberg	16.1	X	6.94556	241.37439	95.03681	5.69974	0.1403746	0.28564771	2.2834012	21	10 21.3	18.2
55562 2002 AM_{29}	14.6	X	72.44440	247.00256	279.55171	12.14184	0.0949016	0.22450760	2.6811144	21	5 18.1	18.1
55563 2002 AW_{34}	11.6	X	24.66519	53.60568	313.11768	29.58856	0.0454828	0.08473905	5.1335009	21	10 25.6	18.7
55564 2002 AQ_{188}	13.6	X	74.87360	14.46751	185.82934	15.99720	0.1903174	0.16986173	3.2290321	21	7 20.3	18.4
55565 2002 AW_{197}	3.3	X	294.93297	298.15840	297.59518	24.44514	0.1281074	0.00306518	46.9351604	21	2 16.6	19.9
55566 2002 BZ_{25}	13.8	X	183.69912	51.60313	35.83478	22.43676	0.1181308	0.22487966	2.6781564	21	6 14.9	18.4
55567 2002 CS_{6}	13.7	X	319.80361	292.29437	23.18409	22.95019	0.2716471	0.27917640	2.3185524	21	5 3.0	16.4
55568 2002 CU_{15}	11.5	X	23.19279	320.96650	43.10077	25.73909	0.0349508	0.08491092	5.1265715	21	11 3.1	18.1
55569 2002 CZ_{61}	14.5	X	281.73487	257.08390	60.99540	8.95614	0.2857863	0.21659054	2.7460581	21	4 3.4	18.9
55570 2002 CV_{78}	16.0	X	38.45516	194.95809	97.71504	1.58960	0.1340760	0.27902323	2.3194008	21	10 5.8	18.4
55571 2002 CP_{82}	12.0	X	77.99621	164.82024	148.75372	12.07169	0.0862600	0.08346852	5.1854634	21	11 18.1	19.0
55572 2002 CN_{140}	14.3	X	342.15876	36.95701	296.43472	12.13946	0.2144934	0.22724049	2.6595750	21	8 8.5	16.6
55573 2002 CQ_{172}	15.7	X	13.60499	231.62038	68.23046	6.61253	0.1920665	0.27558561	2.3386489	21	9 13.4	17.7
55574 2002 CF_{245}	12.0	X	89.04784	16.35037	286.17176	7.66743	0.0775120	0.08279977	5.2133471	21	11 11.8	19.1
55575 2002 DC_{16}	13.9	X	142.68057	59.15045	162.45542	7.97207	0.1967815	0.17601446	3.1533377	21	10 24.9	19.2
55576 Amycus	7.8	X	52.45995	239.75406	315.57312	13.31172	0.3924985	0.00781247	25.1542043	21	7 17.2	21.3
55577 2002 GY_{94}	16.0	X	208.40226	346.31099	337.37730	4.95764	0.1532527	0.30086233	2.2057562	21	1 30.7	19.2
55578 2002 GK_{105}	11.5	X	261.86617	83.27590	43.05885	20.40112	0.0604817	0.08029647	5.3211449	21	10 26.3	18.5
55579 2002 JM_{51}	15.5	X	338.32091	185.87759	34.73117	4.75525	0.0578263	0.25267955	2.4779316	21	3 4.9	18.5
55580 2002 JB_{110}	13.3	X	78.18166	303.76219	55.92921	16.07497	0.2007472	0.23119313	2.6291746	21	—	—
55581 2002 NH	16.3	X	179.56193	212.10448	218.76173	4.20446	0.0788669	0.30441136	2.1885786	21	5 19.8	19.0
55582 2002 PM_{42}	14.7	X	341.97214	13.06054	30.94243	8.90702	0.2295747	0.20979504	2.8050412	21	11 24.4	17.2
55583 2002 PQ_{42}	15.4	X	20.36307	339.76733	18.62101	13.22060	0.1276405	0.26365942	2.4086509	21	12 1.8	18.4
55584 2002 PV_{44}	15.1	X	46.91046	310.09682	33.47277	11.84737	0.2326326	0.26579503	2.3957315	21	—	—
55585 2002 PQ_{45}	15.9	X	259.44255	304.23969	60.08418	6.30737	0.1951319	0.29876970	2.2160439	21	5 10.7	19.0
55586 2002 PT_{47}	14.7	X	106.92465	165.13082	299.01451	12.26103	0.2327517	0.23866358	2.5740202	21	4 26.5	18.6
55587 2002 PD_{50}	14.7	X	48.21987	346.40640	36.52468	7.31464	0.1339435	0.26939377	2.3743479	21	—	—
55588 2002 PV_{81}	14.3	X	335.76203	82.71492	318.12643	3.74139	0.2051455	0.21244382	2.7816767	21	11 5.1	16.8
55589 2002 PO_{93}	15.1	X	21.93198	249.06587	198.68942	22.83980	0.2148024	0.27576978	2.3376076	21	—	—
55590 2002 PB_{97}	15.4	X	100.30450	328.06507	0.14427	3.85685	0.2518908	0.27545706	2.3393764	21	—	—
55591 2002 PD_{116}	14.1	X	200.57087	140.20813	256.45299	9.80328	0.1104266	0.19148738	2.9810959	21	5 2.6	18.9
55592 2002 PY_{128}	14.2	X	29.37811	298.24248	98.62418	10.69439	0.2595201	0.21672950	2.7448842	21	—	—
55593 2002 RM_{20}	15.3	X	158.86643	235.21670	135.02899	4.39072	0.1858095	0.23437221	2.6053454	21	2 21.6	19.4
55594 2002 RE_{62}	15.3	X	88.38833	218.24609	164.28459	6.44944	0.1218431	0.22311847	2.6922313	21	—	—
55595 2002 RL_{63}	16.1	X	161.24322	317.63609	75.48501	4.22835	0.1816123	0.28656571	2.2785221	21	3 19.8	19.4
55596 2002 RV_{65}	14.3	X	251.73838	116.96087	204.57582	13.64909	0.1129928	0.23592096	2.5939307	21	3 17.8	18.2
55597 2002 RO_{66}	15.5	X	20.66368	38.21590	317.51555	5.93868	0.1375354	0.26400909	2.4065236	21	12 2.5	18.2
55598 2002 RF_{99}	14.8	X	172.42353	157.13195	185.69282	1.46275	0.1063112	0.17875029	3.1210799	21	2 2.9	19.7
55599 2002 RP_{100}	14.0	X	221.08041	274.32747	11.62786	10.49626	0.1860173	0.23128142	2.6285055	21	1 7.6	18.5
55600 2002 RO_{106}	14.6	X	359.72012	104.01690	41.68004	13.43153	0.1100038	0.22304634	2.6928117	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55601 2002 RC_{110}	14.1	X	243.02686	31.28644	318.94251	9.33319	0.0706508	0.19174324	2.9784433	21	4 19.4	18.7
55602 2002 RT_{116}	14.0	X	181.86302	356.86468	293.93484	6.87491	0.1277225	0.17342336	3.1846691	21	—	—
55603 2002 RE_{117}	15.2	X	163.57374	153.58172	213.05756	13.71773	0.0922878	0.23291195	2.6162237	21	2 8.8	19.3
55604 2002 RS_{135}	14.7	X	45.01512	317.29939	97.75197	11.42906	0.1238350	0.22263348	2.6961398	21	—	—
55605 2002 RW_{139}	14.9	X	15.03219	267.12163	50.85811	13.73638	0.2108905	0.26071511	2.4267512	21	10 16.7	17.3
55606 2002 RN_{154}	15.5	X	71.29822	10.12730	306.20076	4.84562	0.2352048	0.26815882	2.3816320	21	12 27.0	19.2
55607 2002 RV_{183}	13.3	X	155.68253	102.55203	250.91577	12.89680	0.0624860	0.17875734	3.1209977	21	1 22.4	18.1
55608 2002 SO_{1}	14.8	X	109.87827	54.21595	39.82858	3.53846	0.1492368	0.18470145	3.0536729	21	4 16.1	19.1
55609 2002 SC_{9}	15.8	X	8.28195	186.25821	193.53577	4.77301	0.2189226	0.26469237	2.4023804	21	12 30.5	18.4
55610 2002 SO_{40}	15.4	X	175.48465	199.59688	127.71334	6.60629	0.3190025	0.23270782	2.6177534	21	1 23.7	20.1
55611 2002 SR_{50}	14.3	X	94.65573	80.42155	32.23505	10.27968	0.0713151	0.18322373	3.0700697	21	4 10.9	18.5
55612 2002 TW_{49}	15.8	X	210.39598	315.41501	52.82347	5.80180	0.1411883	0.29098702	2.2553830	21	4 2.2	19.2
55613 2002 TY_{49}	14.6	X	292.13448	324.20918	58.29404	8.87262	0.0554253	0.19786661	2.9166728	21	8 11.9	18.6
55614 2002 TJ_{59}	13.9	X	230.04435	46.42795	291.78915	7.96705	0.1383280	0.18553368	3.0445343	21	3 18.5	18.9
55615 2002 TL_{65}	13.9	X	237.51143	233.82402	8.12852	14.19848	0.2647553	0.22745152	2.6579297	21	—	—
55616 2002 TA_{78}	14.1	X	125.26514	182.80918	288.84135	2.64635	0.1091074	0.18789888	3.0189315	21	5 19.2	18.5
55617 2002 TF_{79}	13.9	X	131.08926	18.34006	63.19569	13.04726	0.1123335	0.18350896	3.0668877	21	4 23.4	18.6
55618 2002 TB_{81}	15.4	X	22.71253	242.92311	117.46218	7.73467	0.2275237	0.26287038	2.4134684	21	12 27.2	18.2
55619 2002 TM_{108}	14.4	X	265.58874	8.50674	320.41507	13.36563	0.2844986	0.23941252	2.5686492	21	3 21.6	18.9
55620 2002 TK_{121}	15.2	X	207.96238	57.33432	234.89272	12.75651	0.0766953	0.22848261	2.6499272	21	—	—
55621 2002 TQ_{138}	13.8	X	241.25154	72.10371	315.03147	9.17857	0.1220383	0.19306852	2.9647977	21	6 1.1	18.5
55622 2002 TY_{143}	13.9	X	54.41870	6.65839	92.48096	10.55534	0.1676049	0.17321730	3.1871943	21	2 11.1	17.7
55623 2002 TZ_{158}	14.8	X	18.84943	83.03664	159.82655	15.30869	0.0961956	0.24620673	2.5211737	21	6 11.1	17.9
55624 2002 TE_{196}	14.4	X	252.09029	102.06080	240.74838	7.98858	0.1914184	0.23915560	2.5704886	21	4 6.9	18.5
55625 2002 TF_{196}	14.3	X	191.41840	119.79788	229.88137	13.62437	0.1300673	0.23005299	2.6378543	21	2 18.1	18.7
55626 2002 TN_{206}	15.8	X	226.16996	337.52756	355.51782	5.25972	0.1488886	0.29006217	2.2601746	21	3 1.7	19.1
55627 2002 TW_{232}	13.7	X	141.33588	20.68541	284.30577	14.12053	0.0672062	0.16876571	3.2429972	21	—	—
55628 2002 TN_{249}	15.5	X	257.26353	308.37635	233.09114	1.55626	0.1517088	0.27030822	2.3689899	21	—	—
55629 2002 TJ_{251}	15.1	X	59.85151	5.33836	94.67325	15.22223	0.1367825	0.22863257	2.6487684	21	2 4.1	18.1
55630 2002 TD_{261}	14.7	X	129.15541	345.73550	66.90480	15.08835	0.0815858	0.22987735	2.6391977	21	3 11.6	18.7
55631 2002 TX_{281}	15.1	X	305.76889	263.92317	356.39198	6.96440	0.0985855	0.28959416	2.2626091	21	2 27.7	17.7
55632 2002 TR_{282}	15.0	X	18.12762	106.47925	11.95622	12.10417	0.1087602	0.22328485	2.6908937	21	—	—
55633 2002 TU_{283}	15.2	X	121.60641	291.94707	7.50267	6.56389	0.1141788	0.26876537	2.3780474	21	—	—
55634 2002 TH_{284}	15.4	X	326.08265	249.75527	356.83962	7.00345	0.1351620	0.28983203	2.2613709	21	3 3.0	17.9
55635 2002 TK_{284}	14.2	X	6.60097	50.80215	262.74261	9.78652	0.1774795	0.25485652	2.4638005	21	9 3.6	16.6
55636 2002 TX_{300}	3.5	X	77.53106	341.94892	324.38061	25.82789	0.1262009	0.00344461	43.4219562	21	10 20.2	19.9
55637 2002 UX_{25}	3.7	X	302.94402	276.41139	204.58509	19.41116	0.1398329	0.00352997	42.7190591	21	11 13.2	19.7
55638 2002 VE_{95}	5.3	X	29.38327	206.35613	199.72327	16.32671	0.2875769	0.00401948	39.1762567	21	12 29.7	20.2
55639 2070 $P–L$	14.9	X	151.70309	283.67465	351.24146	4.97199	0.0345186	0.21370694	2.7707051	21	—	—
55640 2114 $P–L$	15.5	X	54.03322	133.93351	204.04237	4.80159	0.0605989	0.26078036	2.4263463	21	12 13.2	18.6
55641 2125 $P–L$	15.4	X	40.83479	10.88178	342.52384	6.15361	0.1834698	0.26091489	2.4255122	21	—	—
55642 2138 $P–L$	15.5	X	214.02614	201.66921	236.63971	3.56819	0.1326134	0.23909304	2.5709370	21	7 7.1	19.3
55643 2179 $P–L$	14.9	X	353.53231	136.99028	0.84631	17.94845	0.1709772	0.21527878	2.7572019	21	—	—
55644 2582 $P–L$	15.9	X	18.17895	25.86900	30.24560	3.30864	0.1492064	0.26186708	2.4196290	21	—	—
55645 2625 $P–L$	15.8	X	170.05542	234.53487	146.25399	2.58742	0.1925361	0.23517820	2.5993894	21	3 16.9	20.1
55646 2637 $P–L$	15.1	X	255.53153	222.98290	198.97500	1.92825	0.1400202	0.24023165	2.5628070	21	7 31.3	18.7
55647 2676 $P–L$	15.7	X	194.25615	100.51427	309.98681	0.56911	0.1177768	0.23745837	2.5827224	21	5 12.4	19.7
55648 2786 $P–L$	15.1	X	166.94565	86.70477	16.33436	12.86827	0.1437519	0.23812415	2.5779060	21	6 21.9	19.4
55649 3023 $P–L$	14.2	X	179.66235	257.67804	236.86104	10.11684	0.1372933	0.24017533	2.5632076	21	8 10.3	18.5
55650 3536 $P–L$	14.7	X	278.88055	59.44606	348.60914	11.42831	0.1807296	0.25692624	2.4505510	21	8 11.0	17.8
55651 4043 $P–L$	13.9	X	8.46932	122.69561	198.47732	9.53203	0.0985223	0.19322965	2.9631494	21	9 7.7	17.6
55652 4048 $P–L$	14.3	X	305.99618	137.53716	217.73573	2.43830	0.0833511	0.19183162	2.9775284	21	7 18.0	18.1
55653 4088 $P–L$	15.3	X	173.53900	150.35318	312.39150	2.69056	0.1972417	0.23814942	2.5777237	21	6 29.3	19.5
55654 4093 $P–L$	15.0	X	256.83334	44.20681	203.82930	11.43378	0.2052136	0.26655388	2.3911824	21	—	—
55655 4101 $P–L$	15.1	X	330.97217	215.47994	297.65053	2.28464	0.1886982	0.26442285	2.4040126	21	—	—
55656 4708 $P–L$	15.7	X	31.18405	275.93422	11.90700	4.43429	0.0993376	0.25790968	2.4443175	21	9 8.9	18.4
55657 4905 $P–L$	16.2	X	287.75537	124.99221	352.97501	2.13842	0.1463238	0.26069941	2.4268486	21	12 8.0	18.6
55658 6061 $P–L$	15.4	X	160.18831	319.52585	353.96345	2.26470	0.2212602	0.26517938	2.3994381	21	—	—
55659 6110 $P–L$	16.3	X	177.93129	48.68686	349.36053	5.08213	0.1619283	0.28500837	2.2868147	21	4 6.5	19.7
55660 6119 $P–L$	16.0	X	194.28159	160.17063	186.33214	13.46870	0.2764118	0.23523372	2.5989803	21	2 23.4	20.9
55661 6184 $P–L$	16.1	X	219.08034	174.89552	204.79518	5.88496	0.1091178	0.28635886	2.2796192	21	4 25.6	19.4
55662 6224 $P–L$	15.4	X	114.86936	107.22405	211.45628	4.37588	0.0407120	0.21429987	2.7655920	21	—	—
55663 6247 $P–L$	16.1	X	131.48136	94.32659	348.06206	4.02748	0.0949424	0.28488171	2.2874925	21	4 7.8	18.9
55664 6281 $P–L$	16.4	X	353.36981	76.81665	2.56473	0.43785	0.1590700	0.26185117	2.4197270	21	—	—
55665 6527 $P–L$	15.8	X	22.50989	280.66241	133.37515	1.85169	0.1833913	0.26206393	2.4184171	21	—	—
55666 6631 $P–L$	16.1	X	194.47213	251.21353	151.10896	5.15673	0.1573429	0.28597946	2.2816349	21	5 1.3	19.6
55667 6691 $P–L$	14.7	X	6.53720	143.19551	14.96793	6.22203	0.0963081	0.26677736	2.3898468	21	1 11.8	17.4
55668 6722 $P–L$	15.8	X	188.67631	15.94471	16.80788	6.79608	0.0930109	0.28552789	2.2840399	21	4 9.1	18.9
55669 6810 $P–L$	16.3	X	41.55755	183.71006	133.87907	4.14580	0.2025225	0.25998450	2.4312955	21	11 22.2	19.3
55670 9581 $P–L$	15.0	X	57.60621	232.87764	157.29874	7.67890	0.0937196	0.21465653	2.7625277	21	—	—
55671 9587 $P–L$	14.9	X	6.31953	339.11672	58.87950	5.22665	0.0700169	0.21276547	2.7788725	21	12 16.9	18.4
55672 1049 $T–1$	15.9	X	46.08280	234.48073	239.78672	2.70626	0.1082679	0.27387647	2.3483684	21	1 12.3	18.1
55673 1150 $T–1$	15.4	X	6.07365	316.09265	272.22480	2.40583	0.1732892	0.23751581	2.5823060	21	4 20.8	17.7
55674 2112 $T–1$	15.8	X	15.73483	116.11830	9.58030	6.52800	0.0640332	0.27255522	2.3559517	21	—	—
55675 2316 $T–1$	15.9	X	81.66024	33.48885	86.01045	3.28963	0.1630114	0.27640525	2.3340233	21	4 4.2	18.3
55676 Klythios	12.4	X	53.68984	212.84282	354.73341	11.81806	0.0394421	0.08227137	5.2356453	21	6 13.5	19.4
55677 3201 $T–1$	14.0	X	61.37075	55.34435	358.00785	7.31593	0.2238963	0.21275460	2.7789671	21	—	—
55678 Lampos	12.3	X	129.23761	284.88027	212.12317	7.38427	0.0995165	0.08233310	5.2330283	21	6 24.9	19.6
55679 4230 $T–1$	16.1	X	276.50861	138.76017	38.01985	2.82368	0.1372317	0.26968770	2.3726224	21	—	—
55680 4289 $T–1$	15.2	X	252.99174	26.11221	43.25624	6.14830	0.2150668	0.24353118	2.5396060	21	7 31.1	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55681 1143 *T–2*	16.4	X	296.38439	71.83065	327.94949	2.97320	0.1689704	0.30720127	2.1753078	21	8 30.7	18.2
55682 1303 *T–2*	14.4	X	227.96701	85.64215	200.17112	4.91890	0.1405570	0.17369885	3.1813009	21	1 19.5	19.6
55683 1361 *T–2*	14.8	X	242.99775	350.34724	215.42812	1.89718	0.0240894	0.21118511	2.7927187	21	—	—
55684 1510 *T–2*	14.5	X	339.34047	31.37461	180.92110	4.70980	0.1203933	0.17603889	3.1530460	21	2 26.5	18.4
55685 2030 *T–2*	15.8	X	256.97626	9.95169	8.89923	2.48414	0.1086069	0.24241825	2.5473728	21	6 9.0	19.3
55686 2041 *T–2*	16.0	X	26.29281	157.31022	177.85849	1.00178	0.1791550	0.30985942	2.1628492	21	11 30.4	18.3
55687 2049 *T–2*	15.5	X	215.33699	274.77662	341.26951	1.59180	0.1983046	0.27547672	2.3392651	21	—	—
55688 2053 *T–2*	14.7	X	150.41430	103.31061	204.54125	6.96582	0.2181761	0.21262324	2.7801116	21	—	—
55689 2237 *T–2*	15.1	X	286.96168	150.61011	200.50269	4.25319	0.1097869	0.24270877	2.5453396	21	6 10.8	18.4
55690 2696 *T–2*	14.3	X	80.54314	107.27411	16.88731	13.60969	0.1716511	0.17567329	3.1574190	21	4 19.1	18.5
55691 3028 *T–2*	14.5	X	0.28582	271.45447	80.26981	3.11660	0.0791419	0.20594044	2.8399343	21	10 10.0	18.0
55692 3118 *T–2*	15.6	X	171.37524	144.93445	161.27091	6.46549	0.1761119	0.27565051	2.3382818	21	—	—
55693 4149 *T–2*	16.1	X	56.63494	294.33979	58.18427	2.67749	0.1648018	0.31228327	2.1516431	21	—	—
55694 4199 *T–2*	15.6	X	248.51593	324.67198	91.90731	3.40794	0.1438013	0.24327338	2.5413998	21	7 15.9	19.0
55695 4225 *T–2*	15.5	X	121.79924	88.65471	39.08635	6.32965	0.0789008	0.28181508	2.3040570	21	5 27.5	18.3
55696 4227 *T–2*	14.1	X	79.81231	51.35514	60.08902	6.03905	0.1299973	0.17537048	3.1610526	21	3 31.7	18.3
55697 4233 *T–2*	16.2	X	196.19799	245.90520	145.92990	3.93406	0.1555698	0.23943302	2.5685026	21	4 22.2	20.3
55698 4301 *T–2*	14.9	X	137.72091	347.21849	28.73507	6.06529	0.1629741	0.17378098	3.1802985	21	2 16.0	19.8
55699 5396 *T–2*	14.9	X	292.19712	141.93470	221.41104	13.05184	0.1957758	0.24374624	2.5381119	21	6 20.2	18.3
55700 1092 *T–3*	16.2	X	160.33367	122.80192	317.47972	5.71570	0.0695912	0.28403910	2.2920142	21	5 7.3	19.3
55701 Ukalegon	12.5	X	296.76981	106.24890	227.36603	20.96277	0.1404107	0.08411341	5.1589252	21	6 2.3	19.2
55702 Thymoitos	12.2	X	185.74370	191.67776	254.55226	9.34082	0.0303871	0.08242143	5.2292886	21	6 21.9	19.3
55703 2032 *T–3*	14.5	X	312.55567	114.12340	324.83258	5.18375	0.0500652	0.20337292	2.8637865	21	11 18.4	18.3
55704 2165 *T–3*	14.8	X	19.13100	30.02037	355.51255	4.90592	0.1137224	0.20445292	2.8536925	21	12 23.1	18.4
55705 2190 *T–3*	15.4	X	305.26653	6.14021	237.05282	4.16789	0.1011449	0.28158126	2.3053324	21	2 1.8	18.4
55706 2241 *T–3*	15.8	X	221.71224	106.87829	303.57777	2.00602	0.1094416	0.24092465	2.5578902	21	6 10.6	19.6
55707 2246 *T–3*	15.8	X	199.38384	347.29486	326.60964	4.84608	0.0075543	0.27881640	2.3205477	21	1 3.8	18.7
55708 2288 *T–3*	15.0	X	187.02128	7.96643	351.65100	5.07554	0.1976063	0.28132584	2.3067275	21	3 1.2	18.6
55709 2434 *T–3*	15.2	X	38.94055	223.95017	358.22765	5.69456	0.1125331	0.28576080	2.2827987	21	6 13.7	17.5
55710 3081 *T–3*	15.2	X	11.06264	294.37202	50.63654	2.68506	0.0797859	0.20164453	2.8801278	21	10 16.1	18.7
55711 3122 *T–3*	15.6	X	233.77580	357.27785	39.84221	4.06644	0.0462930	0.24103905	2.5570808	21	6 12.4	19.1
55712 3174 *T–3*	15.5	X	334.01280	137.70730	205.50566	1.36114	0.0812615	0.19902499	2.9053446	21	8 14.6	18.9
55713 3463 *T–3*	15.4	X	52.14367	185.92173	13.62476	6.79883	0.1196855	0.28501986	2.2867532	21	6 2.5	17.7
55714 3491 *T–3*	16.2	X	34.45174	103.70409	25.67789	2.12977	0.1058770	0.27886569	2.3202743	21	1 12.9	18.4
55715 3536 *T–3*	16.1	X	253.12729	351.25146	30.29689	5.98628	0.1425301	0.24156445	2.5533717	21	6 3.3	19.9
55716 4249 *T–3*	15.2	X	310.71613	188.64653	112.64917	4.00692	0.1010484	0.24066588	2.5597234	21	5 9.3	18.3
55717 5027 *T–3*	16.0	X	302.51983	171.25401	125.08320	5.83567	0.1618027	0.28544059	2.2845056	21	4 6.9	18.8
55718 5096 *T–3*	15.8	X	356.00819	146.23948	91.53471	7.68193	0.0614912	0.28417266	2.2912960	21	4 22.7	18.3
55719 5131 *T–3*	15.5	X	276.97181	215.07237	101.27860	7.73456	0.1334936	0.28472117	2.2883523	21	4 7.6	18.7
55720 Daandehoop	15.7	X	50.87991	274.23750	178.43216	22.61663	0.0988236	0.37127861	1.9172089	21	—	—
55721 1978 UX_4	15.0	X	229.68568	273.61832	356.79405	7.14440	0.0885581	0.26199011	2.4188714	21	—	—
55722 1978 VU_3	14.4	X	136.19633	113.60169	242.66688	5.50403	0.2496766	0.21379928	2.7699072	21	1 21.9	18.7
55723 1979 MP_2	14.9	X	93.74345	338.85649	272.24904	8.82701	0.0654837	0.19137801	2.9822315	21	9 27.2	19.4
55724 1979 MB_5	14.9	X	293.93689	128.02220	201.54960	3.49527	0.2001985	0.23202705	2.6228712	21	5 8.1	18.2
55725 1979 MG_5	15.2	X	293.58046	62.04628	237.92627	3.56749	0.2034653	0.27767073	2.3269264	21	3 21.7	18.4
55726 1979 MG_8	14.1	X	205.60597	292.48350	124.44025	14.96925	0.1913627	0.18482095	3.0523564	21	6 3.9	19.4
55727 1981 ED_5	15.4	X	277.38589	347.76181	263.47649	7.36789	0.1426617	0.26705705	2.3881780	21	1 10.1	18.9
55728 1981 EV_{17}	15.9	X	232.13988	22.44360	233.85833	1.78996	0.1466585	0.26457293	2.4031033	21	—	—
55729 1981 ER_{30}	14.7	X	125.61839	201.43481	214.56841	2.06776	0.1052724	0.22098828	2.7095046	21	3 6.6	18.6
55730 1981 EM_{33}	14.5	X	170.91749	36.20403	332.23887	12.20158	0.1454745	0.22038468	2.7144496	21	2 27.9	18.7
55731 1981 EO_{37}	15.3	X	121.26374	170.83686	201.17983	4.05298	0.1161897	0.26627349	2.3928608	21	—	—
55732 1986 QN_2	14.5	X	249.41521	305.04795	336.21928	12.73300	0.2027001	0.21469148	2.7622279	21	1 28.0	19.1
55733 Lepsius	14.0	X	260.93696	337.49168	64.10012	12.31896	0.1146025	0.19158962	2.9800352	21	7 15.2	18.4
55734 1986 WD_6	14.2	X	203.41244	142.50273	275.36271	14.70511	0.2070432	0.24361638	2.5390138	21	5 28.5	18.5
55735 Magdeburg	13.9	X	4.94953	54.03583	269.43669	10.95535	0.2858809	0.23310771	2.6147587	21	9 25.5	16.2
55736 1987 QC_1	13.9	X	246.11108	8.14083	332.80914	14.40482	0.2657547	0.22435852	2.6823020	21	3 23.8	18.7
55737 Coquimbo	14.7	X	80.22924	354.13900	122.80095	6.59861	0.1144673	0.27173655	2.3606812	21	3 23.2	17.3
55738 1988 VG_3	14.7	X	222.35434	306.43854	41.03432	11.88986	0.1322367	0.28647694	2.2789927	21	3 21.9	18.2
55739 1989 TV	14.9	X	278.39956	192.37120	186.35028	15.67954	0.2997931	0.24195207	2.5506438	21	6 9.6	18.9
55740 1989 YL_2	13.8	X	4.92984	315.75747	127.53125	6.14225	0.1714710	0.15510392	3.4307378	21	—	—
55741 1990 QZ_3	15.3	X	248.46920	185.57663	154.79284	5.88990	0.1479436	0.27768525	2.3268453	21	4 4.5	18.8
55742 1990 QC_{10}	15.6	X	296.48541	305.52102	351.48352	5.77063	0.1132595	0.27882274	2.3205125	21	4 3.6	18.6
55743 1990 RF_6	14.3	X	288.09398	229.14164	165.92857	4.69214	0.2669266	0.18868403	3.0105508	21	7 16.6	18.3
55744 1990 RL_7	15.3	X	46.19450	256.80643	355.50504	3.10897	0.1508446	0.28505750	2.2865519	21	8 22.3	17.6
55745 1990 SY_7	15.0	X	16.04823	188.39174	52.51805	5.32581	0.0868474	0.27992765	2.3144023	21	5 28.7	17.1
55746 1990 SW_9	14.9	X	43.79947	217.15467	31.65551	5.09134	0.1121239	0.28332692	2.2958534	21	8 7.4	17.3
55747 1990 SQ_{14}	16.0	X	9.64223	23.96505	354.32388	18.96615	0.0939799	0.35470503	1.9764742	21	—	—
55748 1990 VV_{11}	14.4	X	207.02482	352.88578	63.34219	2.30013	0.2855934	0.18026352	3.1035887	21	5 29.6	19.9
55749 Eulenspiegel	13.6	X	144.92623	340.73507	145.10876	4.30845	0.1584985	0.17415410	3.1757545	21	6 30.9	18.7
55750 1991 GP_8	15.2	X	120.76995	10.13930	228.65091	4.20827	0.1358764	0.24139481	2.5545678	21	10 27.5	19.1
55751 1991 NM_4	14.2	X	192.22082	45.44198	276.89283	8.96471	0.1840660	0.21647649	2.7470225	21	1 25.0	18.9
55752 1991 PD_{12}	14.3	X	159.32315	163.01194	181.22742	13.84272	0.2022359	0.21272035	2.7792654	21	1 23.5	19.0
55753 Raman	14.7	X	278.79585	303.21008	356.42490	9.07983	0.1851132	0.21928361	2.7235286	21	3 15.9	18.9
55754 1991 RP_{18}	16.1	X	315.32521	40.08152	317.58598	1.23176	0.1962356	0.29382945	2.2408141	21	7 24.7	17.9
55755 Blythe	16.5	X	75.62395	349.97945	66.54198	3.72903	0.1587560	0.27365409	2.3496405	21	—	—
55756 1991 VJ_9	14.5	X	279.84382	70.13290	56.78276	10.46742	0.1724117	0.19799623	2.9153997	21	11 18.4	18.1
55757 1991 XN	15.4	X	132.32109	17.94254	64.69185	8.59725	0.2893466	0.27913743	2.3187682	21	5 4.8	19.1
55758 1991 XR	14.3	X	354.78272	155.79375	279.72744	24.27500	0.2320796	0.26596798	2.3946928	21	—	—
55759 Erdmannsdorff	15.4	X	173.35117	301.56417	82.76605	4.30590	0.1829540	0.27853169	2.3221288	21	3 21.1	19.0
55760 1992 BL_1	13.3	X	55.75064	287.33020	137.96577	23.10447	0.3441892	0.26923846	2.3752609	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55761 1992 CM_2	14.0	X	162.94879	155.12485	289.56484	18.10826	0.2299288	0.18062049	3.0994980	21	5 30.6	19.5
55762 1992 CE_3	15.1	X	138.89578	276.30249	177.89324	4.80529	0.1449202	0.27886918	2.3202549	21	5 12.3	18.4
55763 1992 DO_7	14.9	X	9.62337	128.00138	104.41933	3.44149	0.0762971	0.17417753	3.1754696	21	5 14.9	19.0
55764 1992 DG_{12}	15.5	X	88.39229	94.05077	8.94626	6.77955	0.0639339	0.27257660	2.3558285	21	3 6.9	18.3
55765 1992 EN_4	15.7	X	40.85986	338.99370	123.81362	3.31314	0.1281956	0.26863730	2.3788031	21	—	—
55766 1992 EL_6	14.5	X	31.99107	43.11636	133.79186	12.29064	0.0819149	0.17187916	3.2037152	21	4 11.4	18.8
55767 1992 EW_{10}	14.2	X	107.91134	198.02442	342.94104	18.92418	0.0566789	0.17943026	3.1131898	21	7 26.4	18.9
55768 1992 GH_4	15.0	X	169.81166	259.19185	22.13769	2.22153	0.1523150	0.25692982	2.4505282	21	—	—
55769 1992 HJ_5	15.1	X	214.88756	158.18331	53.43172	2.89362	0.1398350	0.25613777	2.4555774	21	12 28.5	18.5
55770 1992 OW	14.6	X	234.62401	311.21880	46.75135	13.69503	0.2770086	0.22949695	2.6421133	21	4 12.4	19.3
55771 1992 PD_1	14.8	X	356.32728	183.91997	160.67576	4.43793	0.0962464	0.24028741	2.5624105	21	9 29.3	17.6
55772 Loder	15.5	X	226.78894	130.04205	258.76420	5.18014	0.1348931	0.29261947	2.2469871	21	5 13.6	18.8
55773 1993 BG_6	15.5	X	347.05592	144.93472	311.77840	2.02727	0.0340664	0.30727520	2.1749588	21	—	—
55774 1993 FA_8	16.6	X	98.13520	168.40188	75.11612	3.64732	0.0889270	0.29330965	2.2434608	21	10 13.3	19.4
55775 1993 FY_{10}	15.9	X	127.78746	56.29346	168.94748	5.66159	0.1546971	0.29412715	2.2393019	21	10 25.9	19.2
55776 1993 FH_{14}	16.2	X	92.83640	84.52912	123.18560	4.73957	0.0668044	0.28953045	2.2629409	21	8 11.9	18.9
55777 1993 FC_{17}	16.1	X	96.34547	56.49880	164.97188	6.93120	0.0516356	0.29097441	2.2554482	21	9 2.9	18.9
55778 1993 FW_{23}	15.7	X	278.27430	333.51132	1.23841	6.19702	0.0717121	0.28420564	2.2911187	21	5 7.5	18.5
55779 1993 FX_{23}	14.9	X	68.33980	286.29974	333.74753	1.67033	0.0765053	0.18650439	3.0339611	21	9 12.8	19.2
55780 1993 FQ_{34}	16.0	X	84.03020	185.20927	22.95898	5.68737	0.0836046	0.28841326	2.2687810	21	8 4.6	18.7
55781 1993 FN_{36}	16.5	X	91.24037	55.87481	147.19639	3.22383	0.1265165	0.28861292	2.2677345	21	8 11.3	19.4
55782 1993 FF_{41}	14.9	X	182.36558	27.16971	174.45569	10.88740	0.0551054	0.19334078	2.9620137	21	11 10.6	19.4
55783 1993 FZ_{43}	16.2	X	89.54913	337.80356	188.35247	6.18280	0.1110806	0.28593465	2.2818733	21	6 13.7	19.0
55784 1993 FK_{74}	15.7	X	242.96123	338.42642	355.07150	1.31432	0.1791266	0.28018798	2.3129685	21	3 17.2	19.0
55785 1993 FF_{80}	15.6	X	10.67330	202.56381	94.69935	3.44291	0.1681544	0.28896614	2.2658861	21	8 28.8	17.2
55786 1993 OE_3	14.7	X	308.57603	355.43365	299.40755	6.58225	0.1240998	0.27696273	2.3308903	21	4 13.9	17.7
55787 1993 OB_{10}	15.4	X	131.06461	45.85629	295.67737	5.08352	0.1616504	0.26283444	2.4136884	21	—	—
55788 1993 PX_6	14.9	X	84.88870	42.80118	317.63401	6.73108	0.2281482	0.25739416	2.4475802	21	—	—
55789 1993 RF_{11}	15.6	X	223.69966	69.20016	174.41152	7.33656	0.0856521	0.26020963	2.4298929	21	—	—
55790 1993 RP_{15}	14.8	X	236.35645	278.53485	358.26913	22.20551	0.1338216	0.26496562	2.4007284	21	1 8.6	19.0
55791 1993 SA_2	14.4	X	117.46304	14.30924	332.73471	9.62940	0.2178285	0.25915103	2.4365057	21	—	—
55792 1993 SV_3	14.6	X	158.17980	298.48262	15.60570	22.71708	0.2880151	0.26120247	2.4237316	21	—	—
55793 1993 SS_4	15.7	X	265.20130	42.27122	357.25608	1.75525	0.2265540	0.24204482	2.5499922	21	7 1.6	19.4
55794 1993 TV_{14}	15.6	X	289.59273	10.48350	23.33966	1.59855	0.1823550	0.24277041	2.5449088	21	8 2.9	18.7
55795 1993 TF_{18}	15.2	X	214.89233	32.70054	33.08096	3.32414	0.2022016	0.23762800	2.5814931	21	6 18.1	19.4
55796 1994 AX_{13}	15.8	X	220.79291	10.61350	12.15772	2.96077	0.1696214	0.22855461	2.6493707	21	5 1.7	20.1
55797 1994 CN_{15}	14.4	X	124.22486	347.75414	41.84251	3.87317	0.0793688	0.21631155	2.7484188	21	1 30.2	18.1
55798 1994 ES_5	14.9	X	52.64500	128.72525	358.95659	13.10649	0.1154528	0.21890728	2.7266490	21	3 2.5	18.0
55799 1994 EC_6	14.2	X	80.70490	2.04646	77.08472	5.08288	0.0390955	0.21642478	2.7474601	21	1 30.6	17.8
55800 1994 ED_7	14.4	X	46.30518	97.74530	20.20696	9.58074	0.0529653	0.21674527	2.7447511	21	2 5.3	18.0
55801 1994 PV_4	15.9	X	184.57301	83.23461	333.03812	6.29727	0.1549899	0.28263723	2.2995868	21	5 5.6	19.6
55802 1994 PM_6	13.9	X	178.13347	284.04425	158.07458	20.81345	0.1172760	0.17468784	3.1692824	21	6 10.5	19.3
55803 1994 PD_7	16.0	X	308.96960	238.82234	150.09209	7.30032	0.1255962	0.29274983	2.2463200	21	9 14.2	17.8
55804 1994 PD_{13}	15.7	X	268.93247	183.73253	163.83296	8.89683	0.1863390	0.28519353	2.2858248	21	5 2.5	19.0
55805 1994 PE_{15}	16.3	X	62.85150	275.87709	318.34075	5.35492	0.1142415	0.29068188	2.2569611	21	8 14.6	18.5
55806 1994 PB_{26}	14.3	X	121.47187	355.71044	113.73220	3.66439	0.1533448	0.17190536	3.2033896	21	5 19.5	19.1
55807 1994 PM_{38}	16.5	X	133.03738	65.14216	218.34549	2.19245	0.1606249	0.30357522	2.1925954	21	—	—
55808 1994 RN	14.5	X	342.83256	89.95929	168.01703	9.58192	0.0382915	0.17426950	3.1743523	21	5 12.1	18.9
55809 1994 RW_{15}	16.2	X	98.41926	124.81260	151.60419	8.53642	0.1759546	0.29944272	2.2127221	21	12 3.9	19.7
55810 Fabiofazio	15.0	X	162.43696	234.15610	171.54362	23.04102	0.2184914	0.27834528	2.3231655	21	4 10.1	18.9
55811 1994 TE_{12}	16.0	X	153.13201	330.15194	23.27904	3.78204	0.1486130	0.27144254	2.3623856	21	1 16.8	19.2
55812 1994 UC_9	15.8	X	92.22035	238.51013	239.81790	6.23922	0.0556155	0.27625397	2.3348754	21	3 27.9	18.5
55813 1994 VQ_2	15.5	X	109.87636	346.08041	29.89498	3.21009	0.1764735	0.26695500	2.3887865	21	—	—
55814 1994 YD	14.7	X	294.51607	173.02387	292.29461	11.34015	0.1275971	0.25438187	2.4668644	21	12 1.9	17.5
55815 Melindakim	15.2	X	84.04681	262.70094	162.86870	24.70547	0.2347749	0.26813262	2.3817871	21	1 28.5	17.7
55816 1995 CO	15.0	X	245.10201	59.22516	110.46336	4.48319	0.0360422	0.21682182	2.7441050	21	12 19.0	18.7
55817 1995 DA_6	15.1	X	295.90120	351.33514	350.01499	7.79150	0.2018357	0.23593430	2.5938329	21	5 23.6	18.6
55818 1995 DG_{11}	15.2	X	226.98067	345.45345	88.86147	4.37742	0.1178291	0.23871196	2.5736724	21	7 17.9	18.9
55819 1995 EF_7	15.6	X	49.17523	51.44185	4.87770	2.32337	0.0496602	0.21852811	2.7298022	21	—	—
55820 1995 FW	16.8	X	279.24247	213.41578	345.28970	18.92351	0.0659893	0.36802873	1.9284790	21	—	—
55821 1995 JA_1	14.2	X	305.64898	279.10256	52.26027	15.11030	0.1169369	0.23075522	2.6324999	21	6 7.6	17.5
55822 1995 LV	15.0	X	98.32946	4.91783	106.78566	12.83044	0.0477343	0.22391438	2.6858477	21	4 11.8	18.8
55823 1995 OF_{12}	14.2	X	153.07383	314.85594	146.53593	17.98082	0.1883064	0.18087298	3.0966129	21	6 12.8	19.6
55824 1995 QN_1	15.2	X	202.62482	261.92197	186.23711	1.83714	0.0381584	0.18500697	3.0503100	21	7 12.7	19.7
55825 1995 SD_4	16.0	X	60.06676	142.90249	218.64967	3.93758	0.2262197	0.31199566	2.1529652	21	—	—
55826 1995 SY_7	15.2	X	205.40946	223.30512	349.09331	7.43713	0.0623950	0.19875834	2.9079425	21	12 16.5	19.5
55827 1995 SL_{43}	15.2	X	129.32631	35.81963	90.48956	2.80782	0.1181392	0.17766491	3.1337783	21	6 12.9	20.0
55828 1995 UN_6	15.1	X	216.00201	86.50965	297.76901	8.67043	0.1161823	0.17759299	3.1346243	21	5 1.9	20.2
55829 1995 UG_{12}	15.2	X	49.04491	348.49627	340.73574	1.29924	0.0837557	0.19212846	2.9744607	21	11 15.5	19.2
55830 1995 WA_{19}	14.6	X	15.89096	116.23444	73.59794	13.14587	0.0624863	0.16902532	3.2396757	21	4 6.1	19.1
55831 1995 XL	16.3	X	294.11010	176.59451	247.39371	3.37893	0.1526032	0.30047756	2.2076388	21	10 5.6	18.1
55832 1996 GD_{17}	15.7	X	86.98281	1.48687	167.01557	25.35757	0.1875855	0.28221147	2.3018991	21	6 27.0	19.3
55833 1996 GM_{18}	16.0	X	285.15057	21.64543	214.13377	2.70393	0.1317471	0.26731371	2.3866490	21	—	—
55834 1996 GW_{18}	16.1	X	275.55330	86.39808	187.16816	1.86519	0.1767806	0.26929639	2.3749202	21	2 1.9	19.7
55835 1996 HH_6	15.4	X	46.88573	181.59482	186.40787	6.92861	0.1164391	0.25578531	2.4578327	21	—	—
55836 1996 HW_{22}	16.1	X	216.74795	48.90659	209.68912	2.03069	0.1814446	0.26084857	2.4259234	21	—	—
55837 1996 JV_2	15.0	X	112.30407	282.66238	51.35835	10.71298	0.1496619	0.26092534	2.4254475	21	—	—
55838 Hagongda	15.3	X	215.54365	73.34248	194.55451	6.85948	0.1981562	0.25934835	2.4352697	21	—	—
55839 1996 LH_1	14.5	X	59.35751	193.92101	113.50425	13.21261	0.2542616	0.24556071	2.5255936	21	12 5.4	18.4
55840 1996 NB_2	14.4	X	179.01095	122.44818	299.11968	10.57029	0.1767483	0.22867165	2.6484666	21	5 10.0	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55841 1996 NW_4	15.0	X	187.13647	248.85140	161.14782	2.59246	0.0894282	0.22712606	2.6604682	21	5 5.8	19.1
55842 1996 PU	15.4	X	248.69348	304.03146	317.21034	10.71677	0.2465582	0.26073897	2.4266031	21	—	—
55843 1996 PD_1	15.1	X	302.66089	53.59808	306.85546	1.60764	0.0547539	0.23495492	2.6010359	21	7 25.9	18.1
55844 Bicak	14.6	X	132.54000	40.94581	283.00786	18.36528	0.0527310	0.36896897	1.9252013	21	—	—
55845 1996 RO_2	15.4	X	86.84135	129.21074	188.27477	14.64803	0.1491606	0.24424466	2.5346578	21	12 30.3	19.6
55846 1996 RJ_5	14.8	X	156.03382	22.75185	340.51930	6.28084	0.2259378	0.21612212	2.7500245	21	2 16.4	19.2
55847 1996 SQ	14.4	X	264.01707	19.46376	350.35149	10.12907	0.0400588	0.18987306	2.9979691	21	6 16.9	18.8
55848 1996 SF_6	14.6	X	81.05577	87.66981	190.33585	8.48887	0.1804415	0.23985603	2.5654819	21	11 11.1	18.5
55849 1996 TZ_{11}	14.0	X	152.69491	152.38065	228.72598	12.68767	0.1183616	0.21805692	2.7337333	21	2 19.1	18.4
55850 1996 TV_{21}	15.3	X	296.18238	166.19124	342.39480	2.35336	0.1001787	0.20550322	2.8439610	21	—	—
55851 1996 TA_{31}	15.0	X	203.48708	262.07407	73.27734	5.59303	0.0993957	0.21761130	2.7374640	21	2 21.5	19.2
55852 1996 TS_{34}	15.6	X	77.86652	96.29202	255.53823	1.01402	0.0767137	0.20363758	2.8613046	21	—	—
55853 1996 TF_{52}	13.8	X	149.45662	143.76524	355.17827	13.53453	0.1096400	0.23037805	2.6353724	21	7 23.9	18.0
55854 Stoppani	14.4	X	29.14004	51.65163	51.89717	23.28803	0.0900651	0.36741045	1.9306418	21	—	—
55855 1996 VB_7	14.6	X	300.15952	347.91839	42.84622	14.15687	0.1871537	0.19216184	2.9741164	21	8 18.7	18.5
55856 1996 VQ_{15}	14.9	X	60.80927	287.40330	57.91307	2.80110	0.0917326	0.20078248	2.8883656	21	12 22.6	18.8
55857 1996 XU_2	14.6	X	217.13481	141.59719	281.85937	7.48091	0.1239774	0.18173243	3.0868421	21	6 22.8	19.5
55858 1996 XT_{20}	15.1	X	202.99700	34.68481	62.13636	8.80781	0.0867600	0.18581479	3.0414630	21	7 23.5	19.8
55859 1997 AO_8	15.6	X	323.42118	44.75099	254.40821	1.66826	0.0288972	0.21632237	2.7483272	21	6 4.3	19.3
55860 1997 BQ_6	15.1	X	82.86118	98.26236	57.87011	0.90460	0.1212714	0.17241974	3.1970153	21	5 27.6	19.4
55861 1997 CZ_{12}	14.3	X	88.47695	26.93494	127.70139	10.05692	0.0343868	0.17429585	3.1740323	21	5 22.9	18.9
55862 1997 CV_{28}	16.0	X	38.93470	261.74180	313.20872	4.82652	0.1123312	0.29421871	2.2388372	21	5 31.9	18.0
55863 1997 OM_2	15.6	X	97.49483	201.56476	158.63227	2.93642	0.1856807	0.26162797	2.4211030	21	—	—
55864 1997 PC	15.2	X	129.83706	359.55717	329.05466	2.09683	0.2035910	0.26371889	2.4082887	21	—	—
55865 1997 PZ	15.5	X	63.85200	92.35962	137.77645	3.72529	0.0784965	0.28431966	2.2905061	21	8 3.5	18.1
55866 1997 PV_4	15.3	X	2.50826	156.28445	152.92496	8.28152	0.1848192	0.28791368	2.2714047	21	8 30.1	16.7
55867 1997 RX_2	15.6	X	310.90870	342.01529	314.96172	6.81225	0.1180568	0.28048254	2.3113488	21	4 21.3	18.4
55868 1997 SH_{31}	16.2	X	337.45258	208.01517	295.15315	0.50887	0.1421142	0.26262032	2.4150001	21	—	—
55869 1997 TB_2	15.5	X	312.85492	61.63885	221.71441	4.29007	0.1606994	0.27659133	2.3329764	21	3 31.3	18.2
55870 1997 TD_{26}	15.0	X	74.48015	22.46447	26.88806	9.68300	0.2076323	0.21902884	2.7256401	21	—	—
55871 1997 UE_1	14.9	X	262.00274	349.35403	32.23609	6.01690	0.3234649	0.23802779	2.5786018	21	5 24.2	19.3
55872 1997 UW_5	14.4	X	39.22196	31.52226	37.00694	7.87534	0.1637656	0.21543203	2.7558942	21	—	—
55873 Shiomidake	14.5	X	237.30266	105.10198	338.08295	2.49589	0.2282143	0.23859069	2.5745444	21	7 29.7	18.5
55874 Brlka	14.8	X	175.48273	74.09776	36.72513	14.28892	0.2165984	0.23410680	2.6073142	21	7 13.2	19.5
55875 Hirohatagaoka	15.3	X	240.01738	7.05594	22.73795	5.88861	0.2128904	0.23504995	2.6003349	21	5 24.6	19.6
55876 1997 VH_3	15.0	X	239.21195	339.01193	54.54823	3.78777	0.0359542	0.23306974	2.6150427	21	6 16.2	18.4
55877 1997 VZ_6	15.1	X	302.23593	154.21942	203.01333	2.39458	0.2025473	0.23976314	2.5661445	21	6 26.7	17.9
55878 1997 VX_7	14.9	X	234.55440	227.81782	7.88955	7.84146	0.0821585	0.25916172	2.4364387	21	—	—
55879 1997 WG	15.0	X	297.62265	317.52920	42.27849	5.04803	0.1905131	0.23784939	2.5798910	21	6 25.3	18.0
55880 1997 WS	15.0	X	310.77020	319.72092	36.20188	14.70759	0.1468024	0.24066078	2.5597595	21	7 23.7	18.2
55881 1997 WU_1	14.6	X	270.68488	230.77772	73.14501	14.18070	0.2603444	0.27109686	2.3643933	21	3 7.8	18.7
55882 1997 WY_1	15.0	X	154.22665	91.37869	237.93823	5.26784	0.1177811	0.26120826	2.4236958	21	—	—
55883 1997 WF_8	14.8	X	239.90631	337.71427	67.51350	8.33793	0.1816788	0.23666168	2.5885154	21	6 16.7	18.7
55884 1997 WG_9	15.5	X	203.02529	74.25093	45.30912	14.51468	0.0439513	0.24001299	2.5643633	21	9 2.9	19.3
55885 1997 WV_{18}	15.8	X	143.10809	80.41323	84.88945	4.27655	0.1287197	0.23588376	2.5942034	21	8 19.0	19.8
55886 1997 WT_{35}	14.3	X	145.91543	184.75771	252.79410	12.58587	0.1435427	0.22696185	2.6617513	21	4 27.7	18.5
55887 1997 WE_{37}	14.5	X	207.95968	308.05758	99.23206	5.61576	0.1339035	0.23179119	2.6246502	21	5 23.3	18.6
55888 1997 WG_{44}	14.5	X	233.49418	295.59880	83.49813	6.67751	0.1356444	0.23130344	2.6283386	21	5 13.3	18.6
55889 1997 WD_{52}	15.1	X	236.82673	41.97826	62.40236	23.68968	0.0716771	0.23961644	2.5671917	21	9 28.9	19.2
55890 1997 WO_{54}	15.0	X	203.63995	83.12294	219.66268	6.24396	0.2362648	0.26369880	2.4084111	21	1 7.3	19.1
55891 1997 XF_3	15.0	X	258.58780	32.67445	41.73900	3.43870	0.1797929	0.24178071	2.5518489	21	8 17.7	18.4
55892 Fuzhougezhi	15.4	X	15.64657	60.15211	25.34400	7.67359	0.3000482	0.21229614	2.7829665	21	—	—
55893 1997 YL	14.3	X	93.66441	289.71072	108.51577	16.44868	0.2471754	0.21566503	2.7539089	21	1 25.6	17.7
55894 1997 YS_3	14.8	X	296.56813	133.14668	263.99425	5.98574	0.2074026	0.24174397	2.5521074	21	8 11.6	17.8
55895 1998 AP	14.6	X	349.08889	36.91720	127.32074	8.85373	0.1587367	0.21170777	2.7881203	21	—	—
55896 1998 AM_5	14.4	X	160.64733	146.05162	323.30991	10.56307	0.0720801	0.18319032	3.0704429	21	6 22.6	19.2
55897 1998 AH_6	13.5	X	208.95431	226.50268	1.57840	1.26448	0.0531119	0.19938992	2.9017985	21	—	—
55898 1998 AG_{10}	14.5	X	167.68967	329.41009	82.40261	8.77435	0.1370125	0.22776617	2.6554812	21	4 22.5	18.7
55899 1998 BJ_{10}	14.7	X	13.44577	104.07509	143.58568	12.69282	0.1224445	0.22574461	2.6713110	21	6 10.2	17.8
55900 1998 CQ	14.6	X	70.02345	144.39903	0.49721	6.14556	0.0696700	0.21927049	2.7236372	21	4 12.0	18.1
55901 Xuaoao	15.0	X	220.23747	326.71883	106.66348	5.67244	0.2122077	0.23585789	2.5943931	21	7 2.1	19.3
55902 1998 CO_2	14.6	X	117.60442	223.91618	245.13883	11.19743	0.1305831	0.22748377	2.6576785	21	5 6.9	18.3
55903 1998 DN	14.7	X	283.87868	312.31076	128.93556	18.50637	0.1088409	0.19520554	2.9431199	21	10 12.6	18.9
55904 1998 DR_1	15.2	X	15.19585	263.63130	150.27390	2.56899	0.0666911	0.20338590	2.8636647	21	—	—
55905 1998 DD_3	14.8	X	185.77761	130.49809	319.91170	7.84363	0.2182401	0.18642764	3.0347938	21	6 25.0	20.0
55906 1998 DS_{20}	14.8	X	349.62331	56.90940	174.82994	15.54414	0.1340447	0.17212753	3.2006326	21	4 10.8	18.7
55907 1998 DW_{27}	13.5	X	202.78503	0.84900	285.86740	20.91125	0.0582401	0.16883563	3.2421019	21	—	—
55908 1998 EV_4	15.4	X	292.70480	167.24481	283.03458	0.90582	0.0538298	0.19786486	2.9166900	21	11 5.2	19.1
55909 1998 EB_{11}	14.7	X	106.78617	77.42826	148.95967	12.21023	0.0912549	0.18724610	3.0259438	21	9 21.1	19.2
55910 1998 EN_{12}	14.4	X	48.14289	78.27379	135.40981	10.82743	0.0702240	0.17895676	3.1186787	21	6 16.6	18.6
55911 1998 EP_{12}	14.2	X	234.98173	225.35483	74.97102	5.45481	0.0442445	0.21134883	2.7912762	21	2 13.9	18.3
55912 1998 FD_9	13.7	X	263.98655	344.12156	38.12632	12.97085	0.1440225	0.17953731	3.1119521	21	6 17.8	18.4
55913 1998 FL_{12}	15.4	X	260.66750	162.17081	21.11180	21.76228	0.0883853	0.36782124	1.9292041	21	—	—
55914 1998 FV_{14}	14.5	X	354.45082	65.20693	198.08322	10.19494	0.1665838	0.17585904	3.1551954	21	5 28.3	18.1
55915 1998 FB_{17}	14.5	X	93.96182	65.22014	161.51890	12.54329	0.0903246	0.22860756	2.6489616	21	9 7.9	18.1
55916 1998 FM_{25}	13.5	X	329.56342	267.60081	339.78353	16.66630	0.2160395	0.17136477	3.2101231	21	3 13.3	17.6
55917 1998 FN_{30}	14.1	X	13.18136	299.36022	346.05420	10.70227	0.1307090	0.18254784	3.0776431	21	8 4.7	17.8
55918 1998 FP_{30}	14.4	X	174.78500	73.72822	178.33386	15.91410	0.1872662	0.19692092	2.9260033	21	12 24.0	19.5
55919 1998 FA_{39}	14.1	X	258.07776	96.01856	335.91558	10.13529	0.0763306	0.18796655	3.0182069	21	8 24.5	18.2
55920 1998 FM_{43}	14.6	X	267.22546	232.17602	186.16489	9.71268	0.0369034	0.18622321	3.0370144	21	8 21.7	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
55921 1998 FK$_{50}$	14.7	X	89.21782	294.82940	9.19453	10.08529	0.0913058	0.19340506	2.9613574	21	12 1.4	19.3
55922 1998 FL$_{51}$	14.1	X	174.47694	337.50288	108.80481	2.75794	0.1802454	0.18110483	3.0939695	21	6 10.3	19.2
55923 1998 FD$_{55}$	14.3	X	262.69885	74.24575	14.61127	8.63726	0.0485855	0.18951270	3.0017683	21	9 25.8	18.3
55924 1998 FE$_{55}$	14.5	X	149.81256	113.59838	11.36034	11.30515	0.0721580	0.18062547	3.0994411	21	6 30.4	19.3
55925 1998 FY$_{57}$	14.4	X	73.09714	304.46106	357.02701	8.51764	0.0789704	0.19065069	2.9898114	21	11 7.5	18.8
55926 1998 FE$_{60}$	14.1	X	152.54267	303.38873	175.71382	10.97279	0.1860405	0.18106938	3.0943733	21	6 30.6	19.4
55927 1998 FN$_{60}$	13.9	X	24.43997	301.05477	17.94930	9.74594	0.0996673	0.18666915	3.0321756	21	10 2.5	17.8
55928 1998 FG$_{64}$	14.5	X	101.23301	61.16419	177.99362	9.47734	0.0954190	0.18640924	3.0349934	21	9 29.3	19.0
55929 1998 FW$_{64}$	13.5	X	297.99856	295.30925	10.95472	17.11158	0.1256762	0.17442532	3.1724615	21	4 23.8	18.1
55930 1998 FY$_{64}$	13.8	X	260.83297	231.67275	6.94782	14.98734	0.1016050	0.20460401	2.8522874	21	—	—
55931 1998 FM$_{67}$	14.2	X	354.72622	115.32675	164.06887	9.63831	0.0190713	0.17892748	3.1190190	21	6 23.4	18.7
55932 1998 FE$_{68}$	14.6	X	81.69846	309.75732	191.24135	2.09192	0.1471254	0.17413702	3.1759621	21	5 10.9	18.9
55933 1998 FD$_{73}$	15.2	X	134.91070	135.10693	93.14211	4.07378	0.2666230	0.18837347	3.0138587	21	10 28.9	20.5
55934 1998 FF$_{73}$	15.9	X	45.92603	359.14991	5.15697	19.56583	0.0875701	0.36504395	1.9389768	21	—	—
55935 1998 FO$_{74}$	14.5	X	349.82849	51.25290	159.26047	9.53687	0.0796264	0.21535283	2.7565698	21	3 10.9	17.8
55936 1998 FO$_{76}$	14.2	X	160.22007	75.93234	65.53061	6.60735	0.1026760	0.18258319	3.0772458	21	8 3.7	19.1
55937 1998 FN$_{105}$	13.7	X	339.21524	58.58958	332.26932	9.11548	0.0992912	0.19139271	2.9820788	21	10 20.8	17.5
55938 1998 FO$_{113}$	14.1	X	211.00161	105.24810	327.93806	8.34988	0.0158884	0.18035266	3.1025659	21	7 6.7	18.5
55939 1998 FD$_{118}$	14.2	X	221.49403	280.42951	225.24474	8.74332	0.1147898	0.19018565	2.9946832	21	10 6.2	18.7
55940 1998 GU$_{8}$	13.1	X	181.94657	353.03526	57.51851	27.48186	0.1284745	0.17519421	3.1631726	21	5 8.1	18.2
55941 1998 HS$_{4}$	14.8	X	55.90497	40.81159	212.15420	6.76326	0.1113707	0.18013257	3.1050926	21	8 20.4	19.1
55942 1998 HJ$_{12}$	14.5	X	53.07675	252.24227	15.72193	7.56241	0.1346324	0.18190239	3.0849191	21	9 13.3	18.6
55943 1998 HJ$_{15}$	13.8	X	129.85807	56.33209	57.87294	21.08398	0.1012366	0.17339412	3.1850271	21	5 26.5	18.5
55944 1998 HP$_{18}$	14.6	X	107.97953	243.72173	7.27236	9.91363	0.0635891	0.18859661	3.0114810	21	10 15.9	19.0
55945 1998 HF$_{23}$	13.7	X	311.97257	294.28476	29.12498	11.08906	0.1578117	0.17835010	3.1257469	21	6 2.3	17.9
55946 1998 HP$_{24}$	12.9	X	312.58025	259.78174	66.39851	17.77232	0.2030303	0.17444136	3.1722671	21	6 1.6	16.9
55947 1998 HQ$_{42}$	13.4	X	312.82861	225.54161	64.29994	21.60041	0.0337654	0.17240877	3.1971510	21	5 13.5	17.9
55948 1998 HY$_{45}$	14.3	X	253.79519	323.16406	27.25976	11.53137	0.0256194	0.17449232	3.1716494	21	5 10.9	18.9
55949 1998 HZ$_{45}$	14.3	X	89.12482	82.41925	41.26911	1.19505	0.1823072	0.17301260	3.1897077	21	5 3.5	18.8
55950 1998 HG$_{58}$	14.8	X	327.21470	125.06690	160.73783	1.84843	0.1319553	0.17471920	3.1689031	21	5 13.8	18.8
55951 1998 HP$_{58}$	14.9	X	306.83254	160.54951	123.70577	2.02189	0.1107927	0.17196795	3.2026124	21	4 15.9	19.3
55952 1998 HR$_{61}$	14.7	X	109.01465	123.49597	41.46931	2.12883	0.1387986	0.17825493	3.1268593	21	7 11.8	19.4
55953 1998 HG$_{65}$	14.6	X	48.73543	301.47874	261.00158	3.58617	0.0918912	0.17492809	3.1663798	21	6 4.4	18.8
55954 1998 HX$_{68}$	14.6	X	298.51631	300.74488	20.86499	12.20937	0.0911194	0.21715916	2.7412625	21	5 18.0	18.3
55955 1998 HJ$_{81}$	14.3	X	318.63585	214.79893	61.60921	2.54127	0.1554940	0.17136739	3.2100904	21	4 15.8	18.5
55956 1998 HO$_{100}$	12.8	X	324.09647	249.13734	51.64879	15.52226	0.0948200	0.17457575	3.1706388	21	5 30.9	17.0
55957 1998 HZ$_{100}$	13.5	X	231.72462	54.72733	47.47067	11.95097	0.1355611	0.18399924	3.0614373	21	8 30.1	18.3
55958 1998 HK$_{109}$	14.1	X	63.26428	359.35069	186.12474	28.07809	0.1277924	0.17489489	3.1667806	21	6 8.9	18.9
55959 1998 HC$_{126}$	14.3	X	84.62614	307.61507	201.54742	23.30296	0.1374753	0.17226298	3.1989546	21	5 24.2	19.0
55960 1998 HX$_{133}$	14.0	X	182.68756	23.71446	40.26537	13.17046	0.0187033	0.17651342	3.1473925	21	5 17.9	18.5
55961 1998 HB$_{143}$	13.4	X	330.23703	231.80089	32.06102	16.12484	0.0456562	0.17200279	3.2021799	21	4 28.3	17.7
55962 1998 HA$_{152}$	14.2	X	64.16831	180.44472	19.82192	17.78646	0.1392417	0.17808072	3.1288983	21	7 1.9	18.7
55963 1998 HV$_{152}$	14.5	X	15.18497	101.63682	163.38697	5.45158	0.1091582	0.17611966	3.1520819	21	7 5.9	18.3
55964 1998 KB$_{2}$	15.5	X	71.09826	140.54552	224.11022	19.84034	0.0960723	0.36403163	1.9425698	21	—	—
55965 1998 KN$_{14}$	13.7	X	237.89027	112.01103	37.27828	13.35886	0.2097277	0.19231000	2.9725886	21	10 20.8	18.3
55966 1998 KV$_{14}$	14.8	X	110.44274	247.55113	306.77151	4.12131	0.2025702	0.17971518	3.1098985	21	8 23.9	19.8
55967 1998 KT$_{47}$	13.6	X	12.73421	179.26016	82.36629	18.59176	0.0765560	0.17376309	3.1805168	21	6 25.8	17.6
55968 1998 KV$_{54}$	13.5	X	97.33246	82.78736	123.95515	23.15831	0.1036150	0.17794447	3.1304953	21	8 16.8	18.1
55969 1998 KH$_{56}$	16.0	X	263.43059	106.16701	114.87461	25.75033	0.1570048	0.37041222	1.9201973	21	—	—
55970 1998 NO$_{1}$	15.8	X	148.63998	245.15169	110.54763	3.88922	0.2544027	0.27917937	2.3185360	21	1 25.2	19.2
55971 1998 OA$_{9}$	16.2	X	113.24478	112.08801	231.57759	1.91682	0.1861021	0.31659700	2.1320539	21	—	—
55972 1998 QS$_{20}$	16.3	X	43.34810	111.82724	248.18982	1.00389	0.1741619	0.30943808	2.1648121	21	—	—
55973 1998 QA$_{49}$	15.6	X	322.28110	47.77799	338.74333	6.95032	0.1696797	0.30112719	2.2044626	21	10 2.8	17.2
55974 1998 QK$_{72}$	14.1	X	88.90001	71.33820	231.48955	14.29556	0.0314017	0.17866581	3.1220636	21	11 22.7	18.4
55975 1998 QB$_{94}$	15.6	X	321.09542	175.32738	188.23292	7.18069	0.2259384	0.29935167	2.2131708	21	8 11.2	17.1
55976 1998 RE$_{5}$	15.8	X	73.19742	271.72678	62.84076	4.66663	0.2193057	0.30925417	2.1656703	21	—	—
55977 1998 RJ$_{19}$	16.1	X	82.59972	243.04370	74.57496	2.33773	0.1916020	0.26723998	2.3870880	21	—	—
55978 1998 RN$_{52}$	15.9	X	319.15231	46.12415	26.47724	6.90500	0.1584694	0.30499726	2.1857748	21	12 17.8	17.5
55979 1998 RP$_{54}$	15.8	X	264.12733	142.14698	245.36185	3.60073	0.1675686	0.29363425	2.2418071	21	6 20.9	18.7
55980 1998 RG$_{61}$	15.0	X	269.58682	27.02502	344.70609	4.41279	0.1636842	0.29278063	2.2461624	21	6 5.1	17.8
55981 1998 RO$_{61}$	16.5	X	278.81809	200.85373	214.98678	3.32852	0.1733108	0.29751422	2.2222738	21	8 21.1	18.9
55982 1998 RS$_{61}$	15.7	X	253.77789	187.61592	192.72982	7.14572	0.1065817	0.29179875	2.2511984	21	6 6.7	18.7
55983 1998 RC$_{72}$	16.3	X	43.46414	344.30489	56.96092	1.34885	0.1140008	0.31170650	2.1542965	21	—	—
55984 1998 RZ$_{77}$	15.6	X	65.25276	221.72090	128.83193	3.25249	0.1766880	0.30954217	2.1643268	21	—	—
55985 1998 RU$_{79}$	16.1	X	283.75437	39.18320	28.70850	7.01418	0.1026054	0.29970478	2.2114321	21	10 3.6	18.1
55986 1998 ST$_{24}$	15.5	X	291.48919	302.98615	108.98410	4.68136	0.1288175	0.29854093	2.2171758	21	9 19.2	17.5
55987 1998 SO$_{27}$	14.5	X	232.11306	321.42140	50.25690	23.38377	0.2351382	0.28745070	2.2738430	21	4 26.6	18.3
55988 1998 SD$_{47}$	16.1	X	82.36175	139.36180	32.94652	4.28910	0.0877209	0.28658214	2.2784350	21	6 6.9	18.6
55989 1998 SA$_{62}$	14.9	X	56.46790	81.59976	292.09527	5.39585	0.1402109	0.26727262	2.3868936	21	—	—
55990 1998 SQ$_{71}$	16.3	X	46.86625	343.61407	36.20051	4.19289	0.0408291	0.30896261	2.1670326	21	—	—
55991 1998 SL$_{78}$	14.5	X	182.13554	288.01440	335.07570	13.20708	0.2129934	0.18612119	3.0381241	21	—	—
55992 1998 SX$_{82}$	15.0	X	62.49997	358.14572	341.84222	9.71133	0.0396211	0.22116824	2.7080346	21	12 14.6	18.9
55993 1998 SZ$_{102}$	15.9	X	348.32448	155.90771	173.85612	6.92848	0.1250162	0.25467466	2.4649733	21	8 23.2	18.4
55994 1998 SR$_{105}$	14.5	X	48.22284	228.45951	82.68856	3.15171	0.1222927	0.17327711	3.1864609	21	10 27.2	18.8
55995 1998 SK$_{107}$	16.2	X	197.49818	202.79712	192.60084	5.55682	0.2519662	0.28545580	2.2844245	21	4 24.5	20.2
55996 1998 SC$_{110}$	15.7	X	286.28523	108.76615	268.84358	3.18845	0.1118363	0.29453208	2.2372489	21	7 17.3	18.0
55997 1998 SB$_{128}$	15.3	X	55.53279	248.37666	65.34484	4.97933	0.0851515	0.21684854	2.7438795	21	11 9.7	19.0
55998 1998 SQ$_{135}$	15.8	X	11.78807	331.99608	49.58736	5.42764	0.1212206	0.30520237	2.1847954	21	—	—
55999 1998 SK$_{144}$	15.4	X	321.32880	54.14273	27.95315	5.91938	0.0846773	0.30496287	2.1859391	21	—	—
56000 Mesopotamia	15.6	X	31.64153	68.88529	24.86398	8.35894	0.1703179	0.27027847	2.3691637	21	—	—