Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40001 1998 HB_{88}	14.7	X	330.85880	55.06958	234.19428	8.29555	0.2536595	0.25717592	2.4489646	21	4 25.3	17.2
40002 1998 HS_{89}	15.2	X	307.56133	158.66664	182.98950	6.11076	0.0625154	0.22061585	2.7125530	21	7 4.8	18.8
40003 1998 HW_{92}	14.6	X	53.11108	153.33737	18.33433	1.12553	0.1226655	0.17173110	3.2055563	21	5 5.5	18.7
40004 1998 HF_{94}	15.2	X	98.29300	169.38548	28.34731	6.88747	0.3087560	0.22251882	2.6970658	21	9 1.8	19.7
40005 1998 HA_{96}	14.9	X	78.56431	138.30685	198.37339	14.50240	0.1587775	0.23390183	2.6088371	21	—	—
40006 1998 HV_{101}	14.6	X	91.71570	33.21729	265.52548	5.44409	0.1781124	0.22965088	2.6409325	21	12 13.5	18.6
40007 Vieuxtemps	14.6	X	14.63228	287.28884	57.37945	9.72550	0.1507079	0.22597146	2.6695229	21	11 3.8	17.5
40008 1998 HN_{111}	15.1	X	254.35217	214.12286	106.99527	7.43073	0.1601039	0.25341939	2.4731065	21	3 20.2	18.9
40009 1998 HG_{119}	15.0	X	111.16329	223.63786	77.32999	11.05474	0.1744376	0.23359606	2.6111132	21	—	—
40010 1998 HF_{122}	13.3	X	55.18358	87.73208	148.20861	13.15677	0.1438610	0.17799239	3.1299334	21	8 3.7	17.5
40011 1998 HK_{123}	15.2	X	247.84726	15.41001	185.81270	13.49105	0.0678216	0.23962847	2.5671058	21	—	—
40012 1998 HP_{123}	15.3	X	248.44570	141.59064	98.67861	8.90463	0.1941234	0.24349932	2.5398274	21	—	—
40013 1998 HB_{124}	15.0	X	162.52295	186.75031	167.27546	14.41891	0.1868818	0.24497017	2.5296508	21	2 1.8	19.1
40014 1998 HL_{124}	14.1	X	254.17827	353.69405	100.99201	7.47959	0.2690808	0.22989051	2.6390970	21	8 27.7	18.1
40015 1998 HB_{125}	14.8	X	152.08981	146.99877	146.30380	15.38781	0.1220716	0.23752815	2.5822165	21	—	—
40016 1998 HT_{127}	15.9	X	120.13061	91.73327	19.36262	2.71174	0.1336276	0.26035936	2.4289612	21	5 11.3	19.2
40017 1998 HY_{127}	15.3	X	279.60619	322.32766	18.82670	4.62133	0.0758320	0.26133985	2.4228822	21	5 20.6	18.4
40018 1998 HH_{134}	14.8	X	212.57020	317.99343	125.29671	6.03877	0.0815574	0.26749240	2.3855861	21	7 16.3	17.9
40019 1998 HR_{136}	15.6	X	298.77010	64.56568	173.73207	3.57603	0.1168250	0.25126035	2.4872537	21	1 23.0	19.1
40020 1998 HX_{136}	15.0	X	175.13093	235.44577	78.81167	7.12131	0.1546210	0.24495887	2.5297286	21	—	—
40021 1998 HG_{137}	15.2	X	247.74789	302.84402	147.14878	7.02673	0.0703566	0.27188492	2.3598223	21	9 12.4	18.2
40022 1998 HP_{146}	13.9	X	348.92493	328.27071	84.05932	13.67860	0.1688994	0.19471016	2.9481097	21	12 13.2	16.9
40023 ANPCEN	14.8	X	208.18875	49.18349	240.18118	3.06994	0.2584978	0.24150561	2.5537864	21	—	—
40024 1998 HW_{148}	14.8	X	49.54106	4.05947	337.51652	0.58181	0.0894132	0.23013273	2.6372449	21	12 9.8	18.3
40025 1998 HQ_{149}	14.7	X	254.33474	335.99450	262.28374	6.68638	0.1009591	0.24313972	2.5423311	21	—	—
40026 1998 JF_{3}	14.6	X	202.19591	216.33443	171.72102	7.98958	0.0590668	0.25523154	2.4613865	21	4 23.0	18.1
40027 1998 JH_{4}	15.0	X	27.77430	210.34801	85.49085	3.73980	0.0456761	0.22285907	2.6943200	21	9 5.2	18.4
40028 1998 KO_{1}	15.1	X	305.64335	16.44739	228.23750	5.19224	0.1170993	0.25082680	2.4901189	21	2 7.2	18.4
40029 1998 KG_{2}	14.8	X	165.11305	6.48674	253.44402	15.09909	0.2629470	0.23429646	2.6059069	21	12 26.8	19.5
40030 1998 KL_{2}	15.2	X	179.95622	219.92235	73.73428	13.84533	0.2871579	0.23835091	2.5762707	21	—	—
40031 1998 KP_{2}	13.8	X	338.53952	61.77426	67.16602	23.09893	0.0163790	0.23967791	2.5667528	21	—	—
40032 1998 KD_{10}	14.8	X	254.83496	272.41748	58.45697	8.49072	0.1356492	0.25391754	2.4698709	21	4 4.2	18.5
40033 1998 KX_{10}	15.1	X	138.76603	200.17642	145.48988	9.51276	0.1917069	0.24018339	2.5631503	21	1 1.5	18.8
40034 1998 KB_{11}	13.4	X	123.92931	83.97374	87.21998	18.01337	0.2202083	0.17917403	3.1161571	21	8 14.5	18.8
40035 1998 KO_{15}	14.6	X	11.18402	45.96556	54.04121	13.54809	0.1295169	0.24350734	2.5397717	21	—	—
40036 1998 KT_{19}	15.1	X	173.78107	130.68071	144.01503	5.02053	0.2130858	0.23738254	2.5832724	21	—	—
40037 1998 KS_{22}	15.2	X	13.62003	173.22253	91.56282	4.66955	0.1540486	0.21777253	2.7361127	21	7 5.9	17.8
40038 1998 KT_{22}	14.6	X	279.86442	163.05144	69.60977	10.64206	0.0965253	0.24658956	2.5185636	21	—	—
40039 1998 KW_{26}	14.7	X	189.94755	236.39239	74.11104	13.35954	0.2859967	0.23998483	2.5645639	21	1 12.8	19.4
40040 1998 KC_{27}	14.7	X	73.41137	202.52203	75.38707	15.03317	0.1392474	0.22591702	2.6699518	21	10 31.1	18.7
40041 1998 KK_{29}	15.7	X	169.30426	118.42252	172.06322	4.76808	0.1487642	0.23811388	2.5779802	21	—	—
40042 1998 KM_{30}	15.0	X	240.13655	201.32084	13.16051	5.14138	0.1355544	0.23924037	2.5698814	21	—	—
40043 1998 KV_{30}	14.9	X	174.76964	352.38741	237.32230	11.70328	0.0468369	0.23304120	2.6152562	21	12 10.9	18.7
40044 1998 KH_{32}	15.3	X	182.94981	101.26551	238.62338	1.98030	0.1914709	0.24395535	2.5366613	21	2 4.5	19.5
40045 1998 KZ_{33}	14.8	X	97.05132	282.82877	66.91617	13.64904	0.2221313	0.23449508	2.6044352	21	—	—
40046 1998 KT_{34}	14.1	X	146.17930	130.71295	82.31715	12.67048	0.2556127	0.22867581	2.6484345	21	10 26.1	18.9
40047 1998 KW_{34}	15.6	X	216.65655	107.93447	182.88730	5.08215	0.1902511	0.24297660	2.5434688	21	1 5.8	20.0
40048 1998 KA_{36}	13.8	X	277.54517	254.67762	244.24686	10.98571	0.1649771	0.23626560	2.5914075	21	12 10.7	16.7
40049 1998 KB_{37}	14.4	X	87.67392	246.65188	70.01105	14.56387	0.0658260	0.23167932	2.6254951	21	12 20.5	18.2
40050 1998 KP_{37}	14.7	X	317.15947	341.47468	162.30466	4.99616	0.0597959	0.23995269	2.5647929	21	—	—
40051 1998 KY_{37}	15.1	X	71.94067	93.41099	166.46828	4.15061	0.0537083	0.22335383	2.6903396	21	9 17.9	18.6
40052 1998 KB_{38}	15.0	X	309.95942	115.12373	125.08205	3.76894	0.1227390	0.24973515	2.4973702	21	2 8.7	18.2
40053 1998 KH_{41}	15.1	X	181.52363	121.81038	66.36121	6.49462	0.1712790	0.22992509	2.6388324	21	10 22.8	19.5
40054 1998 KP_{42}	13.8	X	106.72363	341.56045	105.86143	13.26027	0.0730949	0.25246550	2.4793320	21	3 21.6	17.2
40055 1998 KS_{43}	14.6	X	79.92965	226.44351	82.83465	19.11134	0.3099854	0.22716047	2.6601995	21	12 25.2	19.1
40056 1998 KT_{44}	14.5	X	25.34244	132.28081	198.90852	6.90811	0.1938467	0.22389061	2.6860379	21	11 8.5	17.6
40057 1998 KJ_{45}	14.6	X	93.54815	253.05932	75.12191	13.79274	0.2372629	0.23093305	2.6311483	21	—	—
40058 1998 KL_{46}	15.0	X	83.23247	172.09846	113.27669	6.21896	0.2293823	0.26852755	2.3794513	21	11 30.4	18.8
40059 1998 KR_{47}	14.7	X	56.54758	100.92831	223.01885	10.04358	0.2759305	0.22554714	2.6728700	21	12 19.3	18.8
40060 1998 KC_{48}	14.8	X	81.14094	170.50273	75.87453	16.27373	0.1675185	0.26509442	2.3999507	21	10 11.1	18.5
40061 1998 KQ_{48}	14.3	X	250.48070	56.39617	159.39472	4.01974	0.1414891	0.23951305	2.5679305	21	—	—
40062 1998 KP_{49}	14.7	X	41.93148	192.53434	103.34547	18.02980	0.1457748	0.22369574	2.6875976	21	10 18.7	18.5
40063 1998 KV_{49}	14.7	X	323.32837	28.41453	141.60629	13.02924	0.0915385	0.24452312	2.5327331	21	—	—
40064 1998 KW_{50}	14.4	X	244.36021	78.29341	147.65005	9.07858	0.1108778	0.24067843	2.5596344	21	—	—
40065 1998 KX_{50}	14.7	X	152.91758	182.71053	100.04771	15.33794	0.1074800	0.23552012	2.5968730	21	—	—
40066 1998 KF_{51}	13.8	X	349.32665	291.22397	214.08190	14.84650	0.1165694	0.24446170	2.5331574	21	—	—
40067 1998 KA_{54}	13.6	X	298.83934	323.52935	210.65075	13.87024	0.0543543	0.24052994	2.5606878	21	—	—
40068 1998 KS_{54}	14.7	X	254.22891	54.02382	154.59465	7.62507	0.0752509	0.23914881	2.5705372	21	—	—
40069 1998 KQ_{55}	14.9	X	119.56349	151.40465	109.84228	14.84104	0.1582256	0.22830096	2.6513327	21	11 26.3	19.3
40070 1998 KG_{58}	14.9	X	200.67898	124.84485	170.49017	14.52766	0.1257449	0.24173288	2.5521855	21	—	—
40071 1998 KL_{59}	14.8	X	234.62376	139.98610	111.25429	8.55606	0.1966878	0.24238736	2.5475892	21	—	—
40072 1998 KZ_{59}	14.7	X	275.29004	59.68373	163.11583	14.98640	0.1007824	0.24419536	2.5349989	21	—	—
40073 1998 KN_{60}	14.2	X	346.00892	119.12548	107.45718	14.40807	0.1048874	0.25307535	2.4753474	21	3 24.1	17.3
40074 1998 KN_{63}	14.0	X	301.83842	252.96716	83.88703	13.43514	0.1181959	0.21651570	2.7466909	21	6 12.0	17.5
40075 1998 KS_{63}	15.6	X	142.24369	241.76564	73.08406	6.32103	0.2531035	0.23583077	2.5945920	21	—	—
40076 1998 LB	14.7	X	217.22197	95.71388	172.06843	15.01693	0.1105936	0.24094315	2.5577593	21	—	—
40077 1998 MZ_{4}	14.7	X	236.54321	52.43173	170.19906	12.19184	0.1298604	0.23888355	2.5724398	21	—	—
40078 1998 ML_{8}	14.8	X	94.33463	145.68557	193.07020	12.20284	0.2700811	0.23094441	2.6310620	21	—	—
40079 1998 MD_{9}	13.8	X	315.44750	240.43355	154.48937	13.32052	0.1630441	0.22272512	2.6954001	21	9 22.7	16.7
40080 1998 MY_{9}	13.9	X	239.66872	150.16035	228.34139	16.71418	0.1475765	0.21126460	2.7920181	21	5 17.8	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40081 1998 MG_{14}	14.7	X	159.17128	148.68525	124.14305	15.61423	0.0967117	0.23385281	2.6092017	21	—	—
40082 1998 ML_{16}	15.1	X	280.07663	160.30828	333.90068	1.08368	0.0860980	0.18543100	3.0456582	21	12 6.9	19.1
40083 1998 MS_{18}	14.6	X	101.28545	99.49459	162.66313	9.71320	0.0658478	0.22624169	2.6673968	21	10 31.7	18.5
40084 1998 MS_{22}	14.2	X	77.73311	233.94777	84.97147	14.29466	0.0670282	0.22924568	2.6440436	21	12 12.5	17.7
40085 1998 MW_{32}	14.9	X	150.82524	310.41951	253.74183	5.50464	0.2659790	0.26869819	2.3784438	21	10 14.9	19.1
40086 1998 MK_{33}	14.4	X	64.10967	235.58961	112.49672	12.72619	0.2276780	0.22628669	2.6670432	21	—	—
40087 1998 MU_{34}	14.0	X	191.95974	40.47116	133.66947	14.16280	0.1121826	0.22424131	2.6832366	21	10 21.7	18.3
40088 1998 MJ_{37}	14.1	X	0.99099	227.88527	111.75811	15.64140	0.2198389	0.21809765	2.7333929	21	10 15.9	17.1
40089 1998 MH_{40}	14.0	X	88.40405	300.06177	133.48626	11.80929	0.1525340	0.19700272	2.9251933	21	2 22.4	17.8
40090 1998 MZ_{40}	14.7	X	165.11504	212.14827	102.62476	11.51124	0.0720200	0.19348137	2.9605788	21	—	—
40091 1998 MH_{41}	14.6	X	33.77131	214.84031	87.80910	7.64538	0.2178684	0.21945627	2.7220998	21	10 20.2	17.9
40092 Memel	14.7	X	51.46885	315.45401	287.53582	7.84951	0.0967340	0.21529207	2.7570884	21	8 1.7	18.2
40093 1998 NH	14.2	X	247.28755	290.32058	124.50005	12.28004	0.1305400	0.21340762	2.7732952	21	7 13.1	18.4
40094 1998 NN	14.1	X	100.83492	169.78360	145.49819	14.90499	0.1637881	0.22763972	2.6564645	21	—	—
40095 1998 OV_{4}	14.3	X	358.23474	207.29385	143.43254	8.00125	0.1778515	0.21828033	2.7318676	21	10 16.5	17.1
40096 1998 OR_{9}	13.9	X	62.24821	164.01745	148.02909	18.01535	0.1373519	0.17862743	3.1225108	21	11 21.3	18.7
40097 1998 OB_{13}	13.2	X	258.83952	296.99843	148.35321	14.74857	0.0677598	0.17252188	3.1957534	21	9 12.9	17.8
40098 1998 OW_{14}	14.6	X	128.45884	10.63632	336.91676	1.36939	0.1259469	0.18888995	3.0083623	21	—	—
40099 1998 OB_{15}	14.0	X	212.22262	9.90379	342.66766	1.84358	0.0643602	0.20006920	2.8952266	21	3 23.1	18.3
40100 1998 PV	13.7	X	287.46017	276.70419	122.15012	8.23811	0.1513929	0.21687349	2.7436691	21	8 10.8	17.2
40101 1998 QX	14.4	X	27.36702	156.03426	165.35129	36.53808	0.2019105	0.21864555	2.7288246	21	11 2.8	18.4
40102 1998 QU_{1}	14.9	X	42.99843	158.75763	141.80311	6.83501	0.1745949	0.21845428	2.7304172	21	10 23.0	18.4
40103 1998 QX_{3}	13.5	X	329.92039	257.74239	142.84134	11.85461	0.1437837	0.17452839	3.1712124	21	10 22.9	17.4
40104 1998 QE_{4}	13.2	X	160.17572	216.57228	113.04054	10.74112	0.0838073	0.19016724	2.9948764	21	1 2.8	17.7
40105 1998 QL_{4}	14.2	X	273.42509	244.81745	350.21157	1.37327	0.0368883	0.19502261	2.9449600	21	1 11.3	18.4
40106 Erben	15.3	X	236.20238	43.07999	243.21204	7.34276	0.1524887	0.19578308	2.9373291	21	1 22.8	20.2
40107 1998 QB_{7}	14.1	X	230.26562	258.12578	110.92236	11.77942	0.1587157	0.20532274	2.8456273	21	5 1.2	18.8
40108 1998 QU_{7}	13.6	X	74.37753	227.39578	132.45499	12.01570	0.0871036	0.18573937	3.0422863	21	—	—
40109 1998 QC_{8}	14.4	X	353.58266	80.16236	245.96048	5.71203	0.2326049	0.21540806	2.7560986	21	8 24.6	16.7
40110 1998 QM_{9}	14.1	X	89.48939	115.39646	223.90546	4.95269	0.1500833	0.18444986	3.0564490	21	—	—
40111 1998 QK_{12}	13.9	X	119.42236	50.42250	286.23747	9.23882	0.0975034	0.18760410	3.0220930	21	—	—
40112 1998 QM_{13}	14.3	X	110.78953	137.60338	129.75111	13.80677	0.1713239	0.22421036	2.6834836	21	11 25.9	18.8
40113 1998 QZ_{13}	13.6	X	7.82532	121.09300	200.28178	3.48223	0.0929818	0.21596278	2.7513771	21	9 10.3	16.9
40114 1998 QB_{15}	14.3	X	336.76404	181.54650	149.31797	9.99568	0.1665927	0.21366420	2.7710746	21	7 27.3	17.1
40115 1998 QB_{19}	13.6	X	108.70217	245.28160	127.67830	11.04869	0.1087456	0.18974198	2.9993496	21	—	—
40116 1998 QD_{19}	14.3	X	97.37436	162.64186	138.90799	11.39564	0.0815277	0.18137203	3.0909300	21	12 8.1	19.1
40117 1998 QG_{21}	14.4	X	91.77826	199.04578	158.34803	0.12915	0.1871248	0.18503167	3.0500386	21	—	—
40118 1998 QX_{22}	13.9	X	347.42268	284.30639	135.42518	16.49949	0.1172900	0.18002349	3.1063468	21	12 14.9	17.9
40119 1998 QB_{23}	13.9	X	311.47659	23.73426	25.04187	5.76390	0.1363140	0.17344982	3.1843452	21	9 29.4	17.8
40120 1998 QT_{23}	13.0	X	39.48593	285.50375	150.76733	10.66596	0.0991957	0.18834555	3.0141566	21	—	—
40121 1998 QA_{29}	14.1	X	137.25554	157.44196	123.56223	8.90145	0.1005417	0.18339778	3.0681271	21	12 23.9	18.9
40122 1998 QZ_{30}	14.7	X	93.48130	80.34831	237.45898	0.21059	0.1474891	0.18197155	3.0841374	21	12 27.4	19.5
40123 1998 QC_{31}	13.9	X	22.73626	200.25081	151.77170	11.55670	0.1854895	0.17626406	3.1503601	21	11 22.6	18.0
40124 1998 QN_{35}	14.5	X	168.66498	310.78368	69.37512	3.10145	0.0998828	0.19719900	2.9232519	21	3 14.3	19.0
40125 1998 QU_{38}	14.3	X	150.81960	145.15281	186.29745	10.42802	0.1206770	0.18932041	3.0038005	21	—	—
40126 1998 QL_{40}	14.6	X	79.06387	109.72214	183.65139	11.81874	0.2281833	0.22169060	2.7037791	21	11 30.3	19.0
40127 1998 QD_{43}	13.7	X	30.46613	232.71835	146.92259	10.85090	0.0608856	0.18023836	3.1038774	21	12 19.2	18.1
40128 1998 QL_{43}	13.5	X	104.51800	357.13389	7.45402	9.02177	0.0290945	0.18785009	3.0194542	21	—	—
40129 1998 QY_{45}	13.7	X	160.21859	350.67497	331.26561	8.99354	0.1203731	0.18929439	3.0040758	21	—	—
40130 1998 QV_{47}	14.5	X	132.48060	129.63244	177.31265	7.29621	0.1534075	0.18469831	3.0537075	21	—	—
40131 1998 QJ_{48}	13.6	X	253.68176	329.28911	265.26509	3.53212	0.0609630	0.18999527	2.9966834	21	—	—
40132 1998 QL_{48}	13.7	X	88.18933	69.71347	238.01158	3.43667	0.1456534	0.17935430	3.1140687	21	12 10.2	18.5
40133 1998 QF_{53}	13.6	X	62.11297	31.42517	272.17182	5.71849	0.1289425	0.17449064	3.1716697	21	11 2.8	18.1
40134 Marsili	14.4	X	44.58800	111.60365	203.97534	24.10066	0.2712683	0.21811551	2.7332437	21	11 25.5	18.4
40135 1998 QS_{53}	14.3	X	120.61336	145.26427	204.55973	9.50009	0.1026654	0.18734333	3.0248968	21	—	—
40136 1998 QS_{56}	14.4	X	312.08140	232.58748	166.45944	1.37355	0.1650751	0.16984651	3.2292250	21	9 12.6	18.4
40137 1998 QO_{60}	13.6	X	170.64491	283.22953	7.64806	11.19301	0.1874589	0.22581756	2.6707357	21	—	—
40138 1998 QF_{63}	14.5	X	66.27760	176.17435	207.81185	9.30035	0.1023978	0.18508142	3.0494920	21	—	—
40139 1998 QL_{64}	14.7	X	97.01534	115.43028	166.69969	14.65587	0.1418207	0.22391512	2.6858418	21	11 27.4	19.1
40140 1998 QQ_{68}	13.9	X	23.40727	201.91871	183.74184	17.64998	0.2006420	0.17885597	3.1198503	21	—	—
40141 1998 QL_{70}	14.2	X	323.40374	211.99249	204.28844	21.62241	0.0844124	0.17595899	3.1540004	21	10 31.9	18.3
40142 1998 QT_{70}	14.3	X	92.80997	89.09318	227.82615	11.65837	0.1819445	0.18149912	3.0894869	21	12 27.5	19.3
40143 1998 QW_{70}	13.5	X	26.22358	85.67754	233.38196	10.38507	0.1548654	0.17363780	3.1820466	21	10 6.4	17.5
40144 1998 QC_{71}	14.3	X	259.88812	113.70510	236.55638	7.23924	0.2855692	0.20490929	2.8494538	21	4 18.7	19.0
40145 1998 QF_{71}	14.5	X	208.35411	82.26363	212.68256	9.16980	0.1098625	0.19292037	2.9663154	21	1 9.2	19.3
40146 1998 QR_{71}	13.8	X	332.27277	128.05878	265.93139	9.35652	0.0866393	0.17428916	3.1741136	21	10 11.6	18.1
40147 1998 QB_{72}	13.4	X	350.60632	132.54346	211.77758	16.03902	0.1704852	0.17123153	3.2117881	21	9 5.1	17.2
40148 1998 QB_{73}	14.2	X	134.05486	140.25793	217.70642	9.16980	0.1833736	0.18957807	3.0010783	21	1 17.6	18.9
40149 1998 QF_{74}	14.0	X	229.25278	40.70568	218.66222	9.62736	0.0658548	0.19051310	2.9912508	21	—	—
40150 1998 QF_{75}	13.8	X	44.05041	113.86049	193.18239	13.90788	0.2284803	0.17490064	3.1667112	21	11 1.9	18.1
40151 1998 QO_{75}	13.7	X	119.89227	73.80601	251.90420	13.89267	0.0958559	0.18420650	3.0591404	21	—	—
40152 1998 QA_{77}	13.5	X	183.50252	40.43918	275.67233	8.47594	0.0740880	0.19061419	2.9901931	21	1 9.9	18.0
40153 1998 QD_{79}	13.7	X	84.66305	188.76724	176.28128	11.49811	0.1412255	0.18645656	3.0344799	21	—	—
40154 1998 QE_{83}	14.3	X	111.34295	120.81378	206.11908	14.14474	0.1874348	0.18454676	3.0553791	21	—	—
40155 1998 QA_{84}	14.3	X	92.97750	90.71234	222.00631	16.71296	0.2203367	0.18124583	3.0923646	21	12 25.2	19.6
40156 1998 QH_{86}	13.8	X	323.49868	190.28762	205.21222	15.67853	0.0620830	0.17309374	3.1887108	21	10 4.4	18.0
40157 1998 QA_{88}	13.1	X	187.03059	35.65188	276.41008	9.75990	0.0889660	0.19074429	2.9888333	21	1 9.4	17.6
40158 1998 QP_{88}	14.2	X	54.06533	127.90881	211.45542	9.82897	0.1955810	0.17812704	3.1283559	21	12 17.1	18.8
40159 1998 QC_{90}	13.8	X	228.51778	63.52307	246.34066	10.77879	0.1633256	0.19562597	2.9389016	21	2 9.6	18.8
40160 1998 QL_{91}	15.6	X	9.68930	232.60315	359.86081	21.09400	0.0288347	0.37358643	1.9093051	21	4 14.6	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40161 1998 QO_{91}	13.5	X	247.00643	166.06583	165.93482	13.99174	0.1726411	0.24231336	2.5481079	21	3 24.9	17.5
40162 1998 QK_{95}	13.5	X	113.12244	139.94143	254.16930	9.40547	0.1149131	0.19123866	2.9836801	21	1 27.7	17.8
40163 1998 QC_{96}	14.4	X	223.72326	2.28253	265.46463	9.09070	0.0694778	0.19079032	2.9883525	21	—	—
40164 1998 QW_{99}	14.6	X	110.99616	171.22516	151.61153	12.54834	0.1613878	0.18315774	3.0708071	21	—	—
40165 1998 QP_{102}	12.9	X	221.88595	80.79072	153.74356	10.17843	0.0453867	0.18576195	3.0420396	21	—	—
40166 1998 QW_{102}	14.3	X	176.95984	176.21543	149.29426	8.16621	0.1693130	0.19101749	2.9859828	21	1 19.6	19.2
40167 1998 QF_{103}	13.9	X	43.67639	319.51995	15.71277	10.14621	0.0812743	0.17579723	3.1559348	21	11 10.8	18.4
40168 1998 QW_{104}	14.1	X	134.01278	119.46713	146.76903	9.96927	0.1212958	0.17941600	3.1133547	21	12 5.3	19.2
40169 1998 QG_{105}	14.0	X	46.91347	216.78651	92.72358	6.26748	0.1130562	0.17431106	3.1738477	21	10 23.9	18.3
40170 1998 RK	13.8	X	67.46692	128.55540	160.44081	22.05715	0.0764964	0.17306871	3.1890183	21	10 21.2	18.6
40171 1998 RS	13.4	X	65.76301	196.94981	185.51610	15.82472	0.0980476	0.18279728	3.0748427	21	—	—
40172 1998 RQ_{6}	14.2	X	114.50333	47.21824	289.25545	7.97046	0.0536222	0.18596231	3.0398542	21	—	—
40173 1998 RE_{7}	14.6	X	255.41886	304.58378	336.14985	1.44770	0.0525240	0.19683105	2.9268939	21	2 12.8	18.9
40174 1998 RY_{12}	13.9	X	115.05529	85.01214	187.71374	15.71033	0.0728732	0.17638334	3.1489397	21	11 21.5	18.8
40175 1998 RE_{16}	13.8	X	169.07451	162.27870	133.89467	5.61593	0.1648819	0.18605663	3.0388268	21	—	—
40176 1998 RH_{27}	14.1	X	268.99811	44.23471	194.85572	9.11879	0.0169339	0.19248221	2.9708153	21	1 11.9	18.5
40177 1998 RU_{28}	14.1	X	63.55740	272.73583	56.09002	2.18207	0.1874064	0.17885682	3.1198404	21	12 14.2	18.6
40178 1998 RU_{36}	14.1	X	39.37219	75.29045	241.37951	5.36709	0.1266737	0.17425155	3.1745703	21	10 20.6	18.4
40179 1998 RM_{38}	14.1	X	148.82334	206.86733	166.61352	10.17941	0.0868967	0.19299525	2.9655480	21	2 10.2	18.5
40180 1998 RR_{48}	14.5	X	158.06893	40.76407	243.04457	1.80982	0.1571690	0.18497398	3.0506727	21	—	—
40181 1998 RN_{50}	14.5	X	142.41241	184.68532	102.88924	1.18454	0.1307990	0.18327084	3.0695435	21	—	—
40182 1998 RO_{55}	15.0	X	74.18253	273.37978	260.51277	4.43222	0.1094906	0.28888096	2.2663315	21	5 31.5	17.3
40183 1998 RP_{58}	14.1	X	138.93024	123.01226	186.29771	12.00194	0.0873583	0.18425056	3.0586527	21	—	—
40184 1998 RQ_{58}	13.3	X	91.31515	69.04679	185.11472	10.02224	0.0395641	0.17170465	3.2058855	21	9 27.4	17.8
40185 1998 RL_{60}	14.0	X	181.26445	80.14871	204.10800	9.51314	0.0662981	0.18581611	3.0414485	21	—	—
40186 1998 RN_{60}	13.9	X	121.58394	108.57344	211.74306	8.70799	0.1140077	0.18308986	3.0715660	21	—	—
40187 1998 RR_{61}	13.4	X	166.62872	159.87521	238.17954	2.93663	0.1309670	0.15279995	3.4651383	21	4 5.9	19.0
40188 1998 RQ_{64}	14.3	X	93.56503	187.92177	169.89424	1.97423	0.2270952	0.18326684	3.0695882	21	—	—
40189 1998 RR_{67}	14.2	X	118.50945	44.14385	257.94111	2.87958	0.1813410	0.18121302	3.0927379	21	—	—
40190 1998 RL_{74}	14.0	X	50.83450	13.66315	311.81332	3.71587	0.1794969	0.17516608	3.1635112	21	11 23.4	18.3
40191 1998 RM_{75}	13.5	X	14.48028	314.19792	21.88986	7.23226	0.0625294	0.17112595	3.2131091	21	10 4.0	17.6
40192 1998 RV_{75}	13.5	X	14.16464	205.20579	16.46541	13.14969	0.2224842	0.20246470	2.8723444	21	5 1.3	16.2
40193 1998 RF_{77}	13.3	X	55.22268	278.46896	33.34015	7.16175	0.1283629	0.17458776	3.1704934	21	11 5.3	17.6
40194 1998 RG_{78}	14.3	X	216.62193	112.96445	159.95801	9.41409	0.2132471	0.19029688	2.9935161	21	—	—
40195 1998 RU_{78}	13.6	X	29.24138	245.86043	124.97443	6.02897	0.1712523	0.17646215	3.1480021	21	12 20.6	17.8
40196 1998 RM_{80}	13.5	X	19.59425	341.49809	16.12215	9.32504	0.1241817	0.17370697	3.1812018	21	11 10.9	17.7
40197 1998 RP_{80}	13.0	X	70.91506	115.41296	198.21140	8.87871	0.0850888	0.17527499	3.1622005	21	11 21.9	17.6
40198 1998 SA_{1}	13.8	X	6.56223	209.63022	163.97828	1.37657	0.1856117	0.17259399	3.1948633	21	11 20.0	17.5
40199 1998 SE_{1}	14.1	X	104.35008	106.27455	197.18796	10.47955	0.0894803	0.17709707	3.1404735	21	12 15.9	19.0
40200 1998 SW_{9}	14.1	X	36.65640	202.63119	125.95216	1.41239	0.2089255	0.17385082	3.1794468	21	11 14.2	18.1
40201 1998 SO_{13}	13.8	X	201.84418	60.15444	154.78430	12.44193	0.0843361	0.17971412	3.1099107	21	12 11.9	18.7
40202 1998 SN_{26}	13.9	X	111.00119	329.69360	319.56493	5.11591	0.0489645	0.17910288	3.1169823	21	12 2.5	18.5
40203 1998 SP_{27}	15.4	X	77.43525	57.56851	64.01933	23.35226	0.1033570	0.36648084	1.9339053	21	3 20.4	17.7
40204 1998 SV_{27}	13.9	X	346.30391	257.78015	113.33237	16.35815	0.0379767	0.17184731	3.2041110	21	10 15.1	18.6
40205 1998 SU_{30}	14.2	X	69.19562	131.77235	176.07708	8.81890	0.2168417	0.17615104	3.1517075	21	11 30.1	19.1
40206 Lhenice	14.3	X	126.54441	107.19579	170.23066	13.89012	0.1067848	0.17810912	3.1285657	21	12 10.1	19.4
40207 1998 SE_{44}	12.9	X	302.26224	272.52281	170.11900	7.19079	0.1139587	0.17492118	3.1664632	21	10 31.9	17.0
40208 1998 SK_{53}	13.8	X	70.27795	73.47628	193.78945	15.08881	0.1077595	0.17226212	3.1989653	21	9 26.8	18.3
40209 1998 SU_{55}	14.1	X	121.93278	293.34994	0.71878	4.78590	0.1573254	0.18143780	3.0901830	21	12 26.5	19.1
40210 1998 SL_{56}	14.0	X	153.49773	300.34877	4.52456	9.12555	0.1342358	0.18571826	3.0425167	21	—	—
40211 1998 SC_{57}	14.4	X	24.37754	333.69552	37.06163	1.80684	0.2152959	0.17617329	3.1514422	21	12 19.6	18.4
40212 1998 SC_{58}	13.9	X	70.52958	284.01154	13.33042	21.95116	0.0678245	0.17466747	3.1695288	21	10 24.1	18.5
40213 1998 SQ_{58}	13.7	X	51.43693	118.11894	178.21892	14.85778	0.0768469	0.17180149	3.2046807	21	10 6.7	18.0
40214 1998 SR_{63}	14.4	X	131.48031	223.78534	105.65781	1.97511	0.2460174	0.18507160	3.0495999	21	—	—
40215 1998 SZ_{69}	13.9	X	148.96366	333.58686	308.74549	9.59815	0.0797890	0.18443328	3.0566322	21	—	—
40216 1998 SF_{79}	14.1	X	143.46255	292.82360	27.33583	10.55268	0.1132996	0.18655165	3.0334487	21	—	—
40217 1998 SM_{87}	14.0	X	140.22144	77.26346	216.82927	8.59259	0.0875174	0.18201576	3.0836380	21	—	—
40218 1998 SQ_{97}	13.7	X	28.97703	195.22417	181.56161	17.36145	0.1043082	0.17741717	3.1366950	21	12 18.4	18.2
40219 1998 SX_{111}	14.0	X	18.92534	173.75808	167.61188	8.09002	0.1571974	0.17252081	3.1957666	21	10 28.8	17.9
40220 1998 SH_{122}	13.8	X	1.32232	145.94166	219.55594	5.01007	0.1460444	0.17173687	3.2054845	21	10 26.9	17.5
40221 1998 SG_{136}	13.8	X	181.47787	113.21067	182.60977	16.11839	0.1144720	0.18637902	3.0353215	21	—	—
40222 1998 SJ_{137}	14.4	X	12.87546	278.68058	66.44300	7.46180	0.1505530	0.17151067	3.2083024	21	10 23.1	18.3
40223 1998 SX_{142}	13.2	X	223.30778	232.92177	12.83266	16.52951	0.1679425	0.18540804	3.0459096	21	—	—
40224 1998 SJ_{143}	14.5	X	150.63029	127.38456	155.76696	10.16581	0.0735678	0.18233363	3.0800530	21	—	—
40225 1998 SX_{144}	14.4	X	98.96815	210.71116	116.18623	2.32502	0.1841658	0.17985791	3.1082529	21	—	—
40226 1998 SA_{145}	13.6	X	39.80172	321.35474	21.23327	15.15709	0.2184023	0.17438804	3.1729136	21	12 3.2	18.1
40227 Tahiti	12.8	X	0.55687	291.81140	35.36095	10.31683	0.2442362	0.12490880	3.9634559	21	9 8.7	17.1
40228 1998 TR_{1}	14.1	X	75.79161	179.67710	115.88886	12.73666	0.2290069	0.22305565	2.6927368	21	12 1.3	18.5
40229 1998 TO_{3}	15.2	X	99.20210	82.75003	31.21870	21.06815	0.0857100	0.36855121	1.9266559	21	4 2.8	16.9
40230 Rožmberk	14.0	X	107.81875	176.76681	102.98997	2.51601	0.1910783	0.17516848	3.1634823	21	11 29.5	19.2
40231 1998 TS_{6}	15.6	X	195.43120	1.54362	25.79529	22.33161	0.0702165	0.37173516	1.9156388	21	4 4.3	17.8
40232 1998 UD	14.4	X	130.64275	135.80602	316.33688	23.40276	0.1089471	0.28419901	2.2911543	21	4 8.1	18.1
40233 1998 UH_{2}	14.0	X	87.13738	267.47215	16.08614	7.02490	0.1844767	0.17354629	3.1831651	21	11 12.7	18.9
40234 1998 UG_{4}	13.6	X	342.93410	320.20163	42.97119	12.31235	0.1486863	0.17177154	3.2050532	21	9 27.1	17.4
40235 1998 UX_{7}	13.2	X	21.75189	147.37095	201.77515	11.41247	0.1117462	0.17075318	3.2177837	21	11 4.9	17.3
40236 1998 UF_{33}	13.6	X	262.11109	248.89066	46.27425	11.38596	0.1765262	0.24138290	2.5546518	21	2 25.9	17.8
40237 1998 VM_{6}	12.0	X	304.35145	129.77456	309.17762	6.29804	0.2204238	0.08293755	5.2075718	21	9 28.6	18.4
40238 1998 VR_{13}	13.1	X	317.00358	1.23131	6.00715	4.90258	0.2331079	0.12189130	4.0286008	21	7 30.3	18.0
40239 1998 VY_{16}	13.6	X	88.97101	298.04324	53.21228	15.54987	0.1791745	0.18022008	3.1040874	21	—	—
40240 1998 VV_{37}	13.8	X	83.26356	305.85989	23.29069	9.61311	0.2596072	0.17762167	3.1342869	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40241 1998 VA_{46}	15.7	X	291.88340	306.44426	259.40638	17.55671	0.0512103	0.35959671	1.9585090	21	—	—
40242 1998 VU_{46}	14.0	X	84.01899	269.29584	56.48620	5.91988	0.1667287	0.17622878	3.1507806	21	12 28.5	18.9
40243 1998 WH_{1}	14.8	X	147.28610	218.86446	205.86521	24.26875	0.2348640	0.27869453	2.3212242	21	4 19.2	18.3
40244 1998 WP_{4}	15.1	X	171.07220	258.28926	201.58495	24.66583	0.0831641	0.37223301	1.9139303	21	6 16.3	18.0
40245 1998 WO_{7}	16.4	X	107.90427	330.75981	78.23727	45.79224	0.3035167	0.31649464	2.1325136	21	3 19.9	20.4
40246 1998 WV_{18}	12.1	X	204.50790	307.17213	243.43857	11.28509	0.1403373	0.12630677	3.9341564	21	11 2.9	18.2
40247 1998 XK_{4}	15.6	X	121.20530	58.85325	25.00342	20.26035	0.1148899	0.36360820	1.9440776	21	3 27.4	17.6
40248 Yukikajiura	13.9	X	125.48524	288.13459	107.71160	14.02462	0.2146918	0.22964049	2.6410122	21	2 27.1	17.9
40249 1998 XM_{11}	15.0	X	231.35838	18.69273	85.27779	6.87474	0.1595635	0.29078835	2.2564101	21	9 1.9	18.2
40250 1998 XG_{16}	14.9	X	165.51576	5.15071	66.47084	24.62932	0.0576093	0.36805076	1.9284020	21	5 4.7	17.3
40251 1998 XK_{87}	15.4	X	304.36766	275.83720	215.25369	4.20595	0.0360117	0.30424620	2.1893706	21	—	—
40252 1998 YE_{6}	15.4	X	131.36134	341.93662	175.65355	24.53158	0.1732738	0.28507898	2.2864370	21	7 28.1	19.3
40253 1999 BB_{1}	15.3	X	178.16008	341.14888	72.14654	23.94745	0.0947127	0.36199308	1.9498560	21	4 29.9	18.1
40254 1999 BB_{26}	13.8	X	175.31035	234.14982	125.34775	10.54767	0.1482513	0.18277468	3.0750961	21	3 1.1	18.8
40255 1999 CN_{4}	15.8	X	193.32180	160.80413	347.92593	8.99174	0.1078735	0.28610173	2.2809848	21	9 19.9	19.0
40256 1999 CM_{6}	15.2	X	198.23342	341.93078	128.72348	24.01405	0.0724992	0.37329289	1.9103058	21	8 12.3	17.2
40257 1999 CZ_{56}	16.0	X	305.76646	111.57303	22.21762	1.74678	0.0938623	0.29945531	2.2126601	21	—	—
40258 1999 CF_{61}	15.0	X	123.97450	96.34461	255.76722	2.84082	0.1010772	0.30570403	2.1824046	21	—	—
40259 1999 CZ_{85}	14.7	X	283.73273	108.58190	121.47785	7.13497	0.0588530	0.26593948	2.3948639	21	—	—
40260 1999 CU_{98}	14.6	X	170.93333	244.96366	100.62485	6.76008	0.0662676	0.22085973	2.7105558	21	1 27.0	18.4
40261 1999 CD_{117}	14.6	X	207.65019	193.33478	225.59573	6.58901	0.0803541	0.27912716	2.3188251	21	6 6.9	17.7
40262 1999 CF_{156}	12.9	X	284.54383	35.30596	74.72194	10.77274	0.1522151	0.08198022	5.2480342	21	10 23.6	19.7
40263 1999 FQ_{5}	17.7	X	224.68041	198.71503	172.81528	25.84521	0.1611323	0.53930285	1.4947925	21	3 26.2	18.8
40264 1999 FJ_{7}	15.7	X	17.60778	40.86151	167.76149	23.15965	0.0399653	0.36026907	1.9560715	21	4 3.7	17.5
40265 1999 FQ_{22}	15.0	X	260.09904	276.12347	177.87531	7.62041	0.1046905	0.28970281	2.2620433	21	10 1.6	17.6
40266 1999 GS	15.7	X	52.23853	115.97517	15.46510	3.61879	0.1250480	0.26622660	2.3931418	21	2 23.3	18.0
40267 1999 GJ_{4}	15.5	X	352.99296	211.92817	148.23030	34.49654	0.8084544	0.63629173	1.3387471	21	5 1.0	17.5
40268 1999 GU_{8}	15.5	X	204.87118	248.61288	65.83934	6.51826	0.2084785	0.30124660	2.2038800	21	1 18.1	19.0
40269 1999 GP_{25}	15.6	X	83.57332	59.01837	154.91840	5.17587	0.1092799	0.27826866	2.3235919	21	8 13.1	18.6
40270 1999 JE	15.3	X	357.94658	315.47070	232.63454	18.60631	0.0784853	0.35535023	1.9740811	21	1 12.2	17.7
40271 1999 JT	14.7	X	57.32198	253.80474	96.52416	23.84768	0.2747226	0.28366096	2.2940506	21	—	—
40272 1999 JA_{7}	15.5	X	288.74256	222.77198	73.83557	12.19031	0.2674028	0.26396917	2.4067662	21	3 14.5	19.4
40273 1999 JS_{7}	15.2	X	76.55664	58.10924	269.08706	2.15874	0.2161172	0.28392477	2.2926294	21	—	—
40274 1999 JT_{14}	15.4	X	288.20590	181.43353	134.85514	3.08506	0.2107104	0.31090365	2.1580036	21	4 4.9	18.3
40275 1999 JW_{15}	15.6	X	59.14862	101.63286	61.61047	7.18059	0.0737454	0.26651238	2.3914307	21	4 19.6	18.2
40276 1999 JR_{19}	14.5	X	50.64802	276.16601	3.10822	6.28968	0.1621960	0.27867366	2.3213401	21	10 7.7	17.2
40277 1999 JL_{30}	14.7	X	105.26953	164.73772	27.86817	13.90596	0.1464583	0.23216355	2.6218430	21	8 21.1	18.8
40278 1999 JC_{34}	15.4	X	145.02103	4.27894	337.80870	5.02418	0.1973461	0.29624228	2.2286303	21	—	—
40279 1999 JD_{35}	15.4	X	13.38638	121.36612	229.97249	5.94954	0.1428233	0.28226373	2.3016149	21	11 20.9	17.7
40280 1999 JV_{44}	16.1	X	322.41178	266.65145	280.56043	0.65991	0.0091835	0.30140076	2.2031285	21	—	—
40281 1999 JY_{47}	13.3	X	50.57111	175.35441	43.73341	16.02354	0.0317266	0.22711378	2.6605641	21	6 18.6	17.0
40282 1999 JD_{48}	13.1	X	204.02514	238.05942	252.67076	12.12105	0.1162712	0.23635274	2.5907706	21	8 29.1	17.3
40283 1999 JO_{50}	13.9	X	46.62701	135.32210	213.07633	13.69789	0.2167650	0.23949054	2.5680914	21	—	—
40284 1999 JE_{52}	15.9	X	251.15859	332.61245	321.69149	2.19608	0.1597726	0.30353607	2.1927840	21	2 1.5	19.2
40285 1999 JT_{52}	14.8	X	35.32403	157.61657	209.62895	5.33226	0.2183488	0.28522035	2.2856815	21	—	—
40286 1999 JN_{53}	15.9	X	244.13892	181.85858	109.69232	4.83611	0.1406693	0.30257347	2.1974322	21	1 23.2	19.1
40287 1999 JS_{61}	15.7	X	322.77105	133.62496	189.58196	0.32830	0.0369716	0.31658768	2.1320958	21	7 5.6	17.5
40288 1999 JP_{64}	15.5	X	341.08607	209.78460	120.84229	3.07946	0.2228166	0.27264170	2.3554535	21	8 7.9	16.7
40289 1999 JS_{64}	14.3	X	222.36377	147.85269	202.30901	7.13785	0.1460883	0.21652244	2.7466339	21	3 25.6	18.8
40290 1999 JV_{64}	15.1	X	30.22026	42.04456	242.11969	11.90858	0.1987714	0.27424950	2.3462385	21	9 11.8	17.8
40291 1999 JX_{71}	15.6	X	134.74436	198.02966	80.66778	5.45817	0.2034990	0.24375911	2.5380226	21	12 29.1	19.9
40292 1999 JD_{72}	15.3	X	18.64403	231.04900	110.43884	5.92076	0.2355534	0.28055887	2.3109296	21	12 1.6	17.7
40293 1999 JG_{73}	15.1	X	359.71368	208.30849	138.72301	5.73443	0.2118553	0.27904129	2.3193008	21	10 31.9	16.9
40294 1999 JT_{73}	15.5	X	50.27836	211.02621	108.85873	5.16455	0.2200871	0.28133502	2.3066774	21	12 11.2	18.7
40295 1999 JX_{73}	15.8	X	253.47923	211.32162	107.01108	5.51511	0.1092080	0.30768217	2.1730406	21	3 12.2	18.7
40296 1999 JE_{74}	15.4	X	96.57350	166.33608	155.56010	5.37451	0.1680980	0.28841085	2.2687936	21	—	—
40297 1999 JJ_{74}	15.7	X	191.06450	274.54797	93.46560	6.17031	0.0554386	0.30801188	2.1714895	21	3 8.1	18.5
40298 1999 JD_{81}	15.5	X	137.92786	205.80440	107.07298	6.24931	0.2227869	0.29097781	2.2554306	21	—	—
40299 1999 JN_{90}	14.4	X	297.89771	299.67053	130.68813	15.43797	0.0356442	0.24071226	2.5593945	21	11 2.5	18.0
40300 1999 JT_{93}	15.2	X	81.40858	237.89800	115.76557	6.98518	0.1372947	0.29028614	2.2590119	21	—	—
40301 1999 JU_{93}	15.9	X	91.25071	106.84328	156.52347	6.35702	0.0774407	0.28163819	2.3050217	21	10 29.7	19.0
40302 1999 JD_{98}	14.3	X	331.75387	292.04859	100.25879	13.58563	0.1572288	0.23802376	2.5786309	21	10 30.4	17.1
40303 1999 JU_{98}	16.4	X	186.64149	159.47540	131.02914	7.20851	0.1419510	0.29497225	2.2350227	21	—	—
40304 1999 JX_{104}	13.9	X	279.61693	276.91914	89.05488	4.87787	0.0729160	0.18601502	3.0392800	21	6 27.6	18.0
40305 1999 JP_{111}	15.1	X	77.71814	225.40106	143.99811	5.24290	0.1794978	0.29116550	2.2544612	21	—	—
40306 1999 JN_{112}	15.5	X	101.82680	317.91007	92.66617	5.39884	0.1160704	0.30158004	2.2022552	21	1 11.2	17.5
40307 1999 JN_{115}	16.1	X	23.07160	235.60854	60.62082	2.98902	0.1877820	0.27527338	2.3404170	21	9 23.8	18.1
40308 1999 JV_{120}	15.0	X	26.72360	303.94820	82.31901	7.61799	0.1143730	0.28716240	2.2753646	21	—	—
40309 1999 JH_{131}	16.2	X	164.85970	299.22536	16.79665	2.45499	0.1505332	0.29527677	2.2334858	21	—	—
40310 1999 KU_{4}	16.1	X	267.54641	223.39468	76.36247	8.42323	0.4056348	0.30336732	2.1935971	21	2 12.0	20.3
40311 1999 KH_{13}	15.1	X	227.35198	270.22829	98.08541	4.11231	0.2155151	0.30791266	2.1719560	21	4 14.8	18.6
40312 1999 KZ_{13}	15.9	X	191.97425	171.21550	138.85501	3.41127	0.1483811	0.29704026	2.2246371	21	—	—
40313 1999 KV_{14}	15.5	X	275.68792	95.78504	201.44972	5.48948	0.2060112	0.30554871	2.1831441	21	2 23.2	18.9
40314 1999 KR_{16}	5.5	X	350.65909	59.22245	205.68230	24.83276	0.3081595	0.00287047	49.0343259	21	5 27.8	20.9
40315 1999 LS	16.2	X	333.41699	184.61360	119.62126	27.27793	0.3057074	0.31418127	2.1429688	21	5 23.3	18.6
40316 1999 LU_{4}	14.0	X	341.55523	242.85558	125.34917	23.08361	0.2497768	0.27755308	2.3275839	21	11 5.2	16.3
40317 1999 LO_{7}	14.6	X	89.93969	208.39143	140.81788	4.82893	0.2313529	0.28430178	2.2906021	21	—	—
40318 1999 LQ_{9}	14.8	X	86.92801	205.21595	96.91369	15.06465	0.1687056	0.23891703	2.5721995	21	12 14.5	18.7
40319 1999 LR_{11}	15.7	X	112.46226	145.81268	199.62056	4.46707	0.2273814	0.29091477	2.2557564	21	—	—
40320 1999 LP_{14}	14.9	X	218.48014	133.81550	208.73774	7.85009	0.1527116	0.25787954	2.4445080	21	3 6.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40321 1999 LA_{21}	15.3	X	108.43479	212.41497	99.75105	1.77677	0.2117478	0.28607168	2.2811445	21	—	—
40322 1999 LU_{23}	15.1	X	293.28324	61.34129	247.39497	2.26010	0.1422505	0.30916566	2.1660836	21	4 8.3	17.6
40323 1999 LF_{25}	14.9	X	238.00255	231.63829	89.35361	10.61156	0.2849227	0.25727071	2.4483631	21	2 28.1	19.4
40324 1999 LY_{30}	16.6	X	300.32642	151.02430	182.04840	2.12666	0.2246041	0.31303831	2.1481819	21	5 11.8	18.9
40325 1999 LW_{33}	13.9	X	240.45324	230.91631	97.03042	12.14719	0.0227640	0.17283501	3.1918923	21	4 6.2	18.7
40326 1999 MA	14.8	X	278.95354	82.82107	263.62079	6.77520	0.1989582	0.26366468	2.4086188	21	5 8.4	18.1
40327 1999 MB	15.2	X	65.87626	294.21249	71.48673	7.37325	0.1550295	0.28502239	2.2867397	21	—	—
40328 Dow	15.4	X	202.03692	67.56213	245.27306	6.61973	0.1685678	0.29544434	2.2326412	21	1 10.5	18.8
40329 1999 ML	17.6	X	153.45785	112.00978	210.94054	2.52051	0.4545191	0.28885313	2.2664771	21	1 6.5	21.4
40330 1999 MN_{1}	15.3	X	290.35996	347.10808	352.79662	2.71148	0.2204373	0.26285803	2.4135440	21	5 10.8	18.5
40331 1999 MS_{1}	15.8	X	181.52188	30.96351	264.72206	1.68056	0.1185105	0.29213183	2.2494869	21	—	—
40332 1999 NK	14.7	X	8.34789	40.94823	303.05606	9.49724	0.1873964	0.22969134	2.6406224	21	10 21.5	17.7
40333 1999 NO_{1}	13.3	X	73.94230	333.23654	269.97376	28.55737	0.1042165	0.22764684	2.6564091	21	8 19.6	17.6
40334 1999 NS_{4}	14.9	X	291.09423	148.51019	148.22478	2.86995	0.1828192	0.25816517	2.4427046	21	3 22.2	18.2
40335 1999 NJ_{5}	14.8	X	198.77562	6.62942	125.02481	7.43954	0.0460267	0.27204688	2.3588856	21	9 10.3	17.9
40336 1999 NG_{6}	15.0	X	126.17651	200.34872	128.95619	7.53684	0.1601213	0.28738610	2.2741837	21	—	—
40337 1999 NN_{7}	15.5	X	304.48770	3.69197	274.76285	1.60113	0.1787568	0.26010984	2.4305144	21	3 12.9	18.7
40338 1999 NB_{8}	14.7	X	229.20653	208.92837	160.87563	2.71238	0.2095385	0.25833504	2.4416337	21	4 20.8	18.7
40339 1999 NF_{8}	15.3	X	316.81060	15.02774	306.03638	3.42459	0.2056043	0.26508701	2.3999954	21	5 26.4	17.6
40340 1999 NR_{8}	14.4	X	216.38854	222.99277	135.94870	8.09987	0.1714372	0.25580757	2.4576901	21	3 30.6	18.4
40341 1999 NU_{8}	15.3	X	237.14060	214.80296	141.31760	3.02340	0.2251028	0.25777212	2.4451870	21	4 10.2	19.3
40342 1999 NB_{9}	15.7	X	161.70121	215.41479	108.16279	2.34148	0.0923559	0.24589411	2.5233101	21	—	—
40343 1999 NH_{9}	14.7	X	261.98148	250.67571	127.47442	6.75258	0.1577262	0.26362509	2.4088600	21	6 8.3	18.1
40344 1999 NN_{9}	15.4	X	121.18222	343.01203	295.27073	5.58689	0.1143654	0.28122718	2.3072670	21	12 21.4	18.9
40345 1999 NT_{9}	15.9	X	103.49059	168.88827	140.63244	6.09986	0.1850281	0.28214810	2.3022437	21	—	—
40346 1999 ND_{10}	15.7	X	57.36424	359.44220	314.93882	6.15174	0.1350604	0.27686524	2.3314374	21	11 28.6	18.8
40347 1999 NH_{10}	15.4	X	202.85630	350.46804	311.90361	5.26609	0.1737721	0.29384783	2.2407207	21	—	—
40348 1999 NO_{10}	14.4	X	351.68761	46.85779	332.26928	1.78876	0.1158913	0.23002192	2.6380918	21	11 6.8	17.3
40349 1999 NF_{11}	15.0	X	304.84374	202.27855	93.87836	3.58957	0.2135161	0.26128481	2.4232224	21	4 3.7	18.1
40350 1999 NO_{11}	15.6	X	15.20824	13.52824	307.51952	6.37745	0.1282056	0.27171509	2.3608055	21	10 1.5	18.1
40351 1999 NZ_{11}	14.9	X	94.17586	202.19956	129.51204	6.92339	0.1336346	0.23881228	2.5729515	21	—	—
40352 1999 ND_{12}	15.6	X	207.57316	51.02534	300.55912	2.69936	0.1726780	0.25430529	2.4673596	21	3 9.7	19.5
40353 1999 NB_{13}	13.6	X	260.02804	57.45349	296.50220	13.55606	0.1967445	0.26373518	2.4081896	21	4 23.0	17.6
40354 1999 NQ_{15}	15.8	X	228.91287	146.69597	112.05103	3.09304	0.1324341	0.29446805	2.2375733	21	—	—
40355 1999 NH_{17}	16.0	X	299.31631	188.90404	106.06126	5.59831	0.1783678	0.30675759	2.1774048	21	3 26.6	18.8
40356 1999 NZ_{17}	15.6	X	144.78061	265.16953	63.48156	4.49290	0.2093939	0.29018567	2.2595333	21	—	—
40357 1999 NM_{18}	15.4	X	297.19952	338.65218	25.60903	3.52805	0.2542423	0.26717145	2.3874962	21	6 19.3	18.1
40358 1999 ND_{19}	15.3	X	31.45782	126.52733	92.31072	2.31011	0.1333685	0.26569269	2.3963467	21	5 28.5	17.3
40359 1999 NT_{20}	15.3	X	229.47803	305.10404	311.08042	6.27733	0.1353324	0.29414626	2.2392048	21	—	—
40360 1999 NE_{21}	15.6	X	41.91544	7.49059	343.42692	4.66891	0.1561343	0.27988086	2.3146602	21	—	—
40361 1999 NG_{21}	14.9	X	298.05275	58.73262	314.45157	13.13988	0.1635671	0.22448301	2.6813103	21	7 21.4	18.2
40362 1999 NY_{21}	15.6	X	329.47273	253.84100	6.43147	2.34389	0.1624021	0.26242587	2.4161930	21	3 27.0	17.9
40363 1999 NM_{23}	15.1	X	64.47255	203.11233	119.21454	8.60592	0.2079600	0.23475710	2.6024969	21	12 19.8	19.1
40364 1999 ND_{24}	15.3	X	41.86038	224.32458	106.11778	7.51746	0.1504263	0.27763616	2.3271196	21	12 5.0	18.1
40365 1999 NE_{26}	14.3	X	99.56876	42.82844	32.03175	2.32734	0.1419342	0.25245274	2.4794156	21	2 27.6	17.1
40366 1999 NF_{27}	15.9	X	301.70566	28.31498	270.66684	2.48992	0.1807142	0.30705166	2.1760143	21	3 30.3	18.5
40367 1999 NA_{28}	15.5	X	22.73830	304.51501	354.32512	3.26530	0.2075686	0.27215221	2.3582769	21	9 27.9	17.6
40368 1999 NS_{28}	14.8	X	263.41865	18.24635	321.08465	5.70775	0.1350949	0.26112775	2.4241940	21	4 17.5	18.3
40369 1999 NY_{28}	15.2	X	343.23206	174.82418	94.46670	2.46409	0.1589796	0.26462754	2.4027727	21	5 6.2	17.2
40370 1999 NZ_{28}	15.4	X	92.31060	26.78030	307.26434	6.02449	0.1245156	0.28415598	2.2913856	21	—	—
40371 1999 NF_{30}	15.2	X	80.36274	35.58218	296.54807	4.80300	0.2088103	0.28191937	2.3034888	21	—	—
40372 1999 NG_{34}	14.9	X	90.88148	248.90918	95.68644	5.58054	0.1508521	0.23997085	2.5646635	21	—	—
40373 1999 NF_{36}	14.9	X	215.59752	117.70077	111.78984	6.57885	0.0554569	0.28769260	2.2725682	21	—	—
40374 1999 NG_{36}	15.5	X	301.67234	156.31635	110.22917	7.54700	0.0938730	0.30307968	2.1949847	21	3 2.9	18.2
40375 1999 NO_{36}	14.6	X	86.85389	221.85456	103.33882	17.05786	0.2470223	0.23707963	2.5854723	21	—	—
40376 1999 NF_{37}	15.7	X	94.99820	212.20381	106.73033	3.60018	0.1696569	0.28252128	2.3002159	21	—	—
40377 1999 NM_{39}	15.3	X	262.08035	299.99941	20.18055	2.65021	0.1951132	0.25828612	2.4419420	21	3 20.0	18.9
40378 1999 NW_{40}	15.0	X	295.35712	334.29921	343.91804	5.95899	0.1630433	0.26223292	2.4173780	21	4 24.6	18.3
40379 1999 NG_{41}	14.8	X	272.72811	315.99676	73.79628	3.35638	0.2184260	0.26530216	2.3986977	21	6 28.1	17.9
40380 1999 NX_{42}	14.9	X	259.26317	28.64774	341.98520	7.65982	0.1336441	0.26302966	2.4124940	21	5 25.8	18.5
40381 1999 NK_{44}	15.0	X	174.90391	204.80250	163.56091	8.58272	0.2313559	0.25440108	2.4667402	21	3 5.6	19.2
40382 1999 NK_{47}	15.5	X	257.10043	70.43049	235.27679	3.82465	0.2020292	0.30234558	2.1985363	21	2 17.5	18.9
40383 1999 NW_{47}	15.5	X	28.80935	176.75638	188.08114	6.35410	0.1944311	0.27910842	2.3189288	21	—	—
40384 1999 NC_{49}	15.3	X	350.74118	154.45707	175.64671	3.15800	0.1721451	0.27040388	2.3684312	21	9 1.9	17.1
40385 1999 NE_{49}	15.3	X	266.68927	79.32528	203.69570	2.04370	0.1727111	0.30079397	2.2060904	21	1 31.8	18.6
40386 1999 NK_{49}	15.1	X	286.69739	138.52099	199.32292	5.66981	0.1607518	0.26325346	2.4111264	21	5 14.2	18.3
40387 1999 NL_{49}	13.9	X	334.49171	157.35177	262.78615	10.06064	0.1466549	0.23333556	2.6130563	21	12 6.6	16.4
40388 1999 NY_{49}	15.2	X	178.95050	57.46981	214.50915	2.65629	0.1818617	0.28870683	2.2672427	21	—	—
40389 1999 ND_{50}	14.2	X	51.93312	152.39985	267.23866	11.18879	0.0648188	0.24373423	2.5381953	21	—	—
40390 1999 NR_{51}	14.5	X	99.31919	173.69465	182.89938	14.84386	0.2226918	0.24234073	2.5479160	21	—	—
40391 1999 NR_{52}	14.0	X	280.67507	225.76465	231.08056	13.42088	0.1362112	0.23244657	2.6197145	21	10 20.7	17.3
40392 1999 NS_{53}	14.7	X	357.26652	159.15273	191.93187	12.87843	0.2184458	0.22752060	2.6573917	21	10 18.7	16.9
40393 1999 NW_{53}	15.0	X	114.79838	204.82985	175.62003	14.67328	0.1086989	0.24596393	2.5228326	21	1 1.9	18.5
40394 1999 NX_{53}	15.2	X	125.23086	91.13401	204.14168	13.77367	0.0889141	0.23844026	2.5756271	21	—	—
40395 1999 NP_{54}	15.5	X	135.59016	45.42537	200.83972	9.56049	0.1806070	0.28045024	2.3115263	21	11 26.7	19.3
40396 1999 NT_{54}	14.4	X	104.18726	227.25795	170.27730	15.26162	0.1121376	0.24622626	2.5210404	21	1 9.5	17.8
40397 1999 NY_{55}	13.8	X	233.75994	216.37493	255.49613	12.47917	0.1080724	0.22621589	2.6675996	21	9 6.6	17.9
40398 1999 NL_{57}	14.8	X	32.21759	189.34452	159.73459	13.50992	0.2621372	0.27901665	2.3194373	21	—	—
40399 1999 NW_{63}	15.2	X	204.16076	341.03537	347.64378	5.45995	0.2167850	0.29679452	2.2258649	21	2 5.1	18.7
40400 1999 NJ_{64}	15.1	X	57.02681	233.37579	84.57173	1.79437	0.1223589	0.18812412	3.0165213	21	11 17.1	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40401 1999 NS_{64}	15.6	X	17.14475	22.72296	316.00855	5.86124	0.1501908	0.27446684	2.3449997	21	11 5.3	18.1
40402 1999 NY_{64}	15.4	X	169.59265	300.74497	358.67421	2.36050	0.1388850	0.28942555	2.2634877	21	—	—
40403 1999 NJ_{65}	15.5	X	271.71207	168.86833	195.29602	11.92890	0.2120009	0.26392289	2.4070476	21	5 24.9	19.1
40404 1999 OB	14.5	X	97.11727	189.96643	164.68065	4.41731	0.1362270	0.28574463	2.2828848	21	—	—
40405 1999 OU	15.2	X	167.54073	268.81219	172.79909	5.07141	0.1389775	0.21437650	2.7649329	21	5 27.9	19.6
40406 1999 OR_{1}	14.5	X	289.78661	325.74858	115.45904	7.40657	0.0713652	0.27735714	2.3286800	21	11 4.8	17.1
40407 1999 QT_{2}	15.7	X	213.05384	194.87365	143.39962	6.17115	0.1294531	0.25179844	2.4837089	21	2 28.5	19.4
40408 1999 RO_{2}	15.1	X	74.04353	35.60285	254.31724	6.52805	0.1133159	0.27536384	2.3399044	21	11 13.7	18.1
40409 Taichikato	15.7	X	262.84874	205.06931	115.47972	3.52068	0.2069352	0.25712201	2.4493069	21	3 21.4	19.5
40410 Příhoda	14.7	X	13.02449	300.70162	135.53131	2.65959	0.0716640	0.18940412	3.0029154	21	—	—
40411 1999 RM_{3}	14.6	X	179.10409	356.53073	256.29563	3.98773	0.1240845	0.28491085	2.2873365	21	—	—
40412 1999 RE_{9}	14.7	X	199.26370	228.95764	165.99509	6.28215	0.1204827	0.21056688	2.7981823	21	5 1.4	19.1
40413 1999 RS_{10}	13.9	X	190.71709	246.03111	158.01795	14.70987	0.0669995	0.25790255	2.4443626	21	5 3.1	17.6
40414 1999 RP_{11}	15.1	X	302.69048	92.01953	204.24216	0.71350	0.1746154	0.26045398	2.4283729	21	4 5.0	18.3
40415 1999 RB_{13}	15.0	X	328.26034	148.19001	164.29476	14.21720	0.1099131	0.26394369	2.4069211	21	6 20.7	17.9
40416 1999 RO_{14}	14.6	X	131.73270	299.36595	179.23700	4.54377	0.0232280	0.25919938	2.4362026	21	5 23.5	17.8
40417 1999 RD_{16}	13.9	X	221.11697	287.87663	168.85286	30.46859	0.2000760	0.21933595	2.7230953	21	7 31.7	18.8
40418 1999 RK_{19}	14.2	X	342.66183	71.68004	328.26604	9.29033	0.1312684	0.18323280	3.0699684	21	11 6.7	18.0
40419 1999 RV_{20}	14.9	X	209.73961	180.12860	229.34921	3.06337	0.0957497	0.21286113	2.7780399	21	5 29.3	19.0
40420 1999 RJ_{21}	14.4	X	106.42109	156.56091	165.82686	13.36469	0.0415093	0.23550598	2.5969769	21	—	—
40421 1999 RZ_{22}	15.0	X	169.77116	188.87369	162.81308	2.27919	0.0553618	0.20115870	2.8847632	21	2 3.5	19.3
40422 1999 RF_{23}	15.2	X	258.71892	171.15535	155.52594	3.33540	0.1962668	0.25595034	2.4567761	21	3 25.4	19.1
40423 1999 RJ_{23}	15.1	X	204.95847	28.65353	32.40495	3.79766	0.0882196	0.21357466	2.7718490	21	6 7.7	19.2
40424 1999 RB_{24}	14.3	X	352.18496	323.10157	25.08640	6.38412	0.1647761	0.26944029	2.3740746	21	10 6.6	16.1
40425 1999 RQ_{25}	15.4	X	350.57871	62.84212	264.14043	1.96678	0.1124822	0.22112430	2.7083933	21	8 20.5	18.4
40426 1999 RV_{25}	14.0	X	282.57439	51.68797	345.06201	4.53259	0.1817705	0.17322362	3.1871168	21	7 25.9	18.3
40427 1999 RN_{26}	14.6	X	92.51889	12.82350	18.49450	10.95856	0.1368669	0.19498056	2.9453834	21	1 4.2	18.6
40428 1999 RZ_{26}	14.8	X	32.88495	107.23249	150.72442	7.88418	0.0535542	0.21756660	2.7378389	21	7 20.1	18.3
40429 1999 RL_{27}	12.7	X	152.66568	262.34632	32.23443	13.34098	0.1740248	0.23548138	2.5971578	21	—	—
40430 1999 RL_{28}	16.1	X	44.94146	84.03046	172.43876	20.51624	0.4154724	0.26986669	2.3715732	21	10 10.9	19.3
40431 1999 RK_{29}	14.5	X	209.30596	57.08376	173.04104	23.72421	0.2085730	0.28873744	2.2670824	21	—	—
40432 1999 RW_{29}	14.2	X	10.82753	2.94936	322.01347	16.13719	0.3035841	0.22594314	2.6697460	21	10 10.8	17.0
40433 1999 RQ_{30}	14.3	X	330.29601	309.64433	343.55403	32.53896	0.1877698	0.21595574	2.7514368	21	4 25.1	18.4
40434 1999 RH_{32}	14.3	X	206.50083	212.10619	169.00084	9.68408	0.1680536	0.20979806	2.8050142	21	4 20.9	19.0
40435 1999 RL_{32}	14.8	X	18.81212	22.67745	341.23802	1.85384	0.1810350	0.18314068	3.0709978	21	11 28.9	18.5
40436 Sylviecoyaud	15.0	X	107.85758	344.56859	359.01839	4.98617	0.1338463	0.23723660	2.5843317	21	—	—
40437 1999 RU_{33}	14.9	X	274.72439	201.32764	354.16345	13.07875	0.0714516	0.19571496	2.9380107	21	—	—
40438 1999 RV_{33}	14.7	X	16.19241	104.67150	2.67714	1.44076	0.0871222	0.19585125	2.9366475	21	—	—
40439 1999 RF_{34}	14.1	X	288.70712	271.13222	147.62384	0.54737	0.1760478	0.17582962	3.1555472	21	8 31.8	18.3
40440 Dobrovský	14.4	X	26.17561	202.58922	192.48643	9.89504	0.0939111	0.18626457	3.0365647	21	—	—
40441 Jungmann	15.3	X	150.26147	154.49538	186.83871	6.87853	0.2561234	0.24272871	2.5452002	21	1 13.5	19.4
40442 1999 RO_{35}	15.0	X	104.63050	274.96886	72.99090	1.15074	0.2952170	0.23818386	2.5774752	21	—	—
40443 1999 RU_{35}	15.6	X	150.05173	319.76961	339.28666	6.44980	0.2358894	0.24004097	2.5641640	21	—	—
40444 Palacký	15.2	X	256.39428	21.38054	200.04112	1.42837	0.0452540	0.19410117	2.9542730	21	—	—
40445 1999 RY_{35}	15.9	X	43.39236	304.09290	331.39983	6.10418	0.1136769	0.27105875	2.3646149	21	9 11.6	18.6
40446 1999 RN_{36}	13.6	X	115.71783	153.36981	216.99004	12.84228	0.1848147	0.23875512	2.5733622	21	1 2.3	17.1
40447 Lorenzoni	15.5	X	153.87709	310.07212	3.12403	4.28098	0.2483659	0.24233940	2.5479253	21	—	—
40448 1999 RT_{37}	15.2	X	319.67636	319.12931	4.59838	6.74373	0.1265943	0.26262681	2.4149604	21	6 18.9	17.8
40449 1999 RV_{37}	15.7	X	271.81039	124.39396	189.40902	4.36487	0.1219141	0.25517769	2.4617328	21	3 29.4	19.0
40450 1999 RX_{37}	14.1	X	302.51097	276.80176	186.58019	9.42524	0.0523655	0.18470669	3.0536151	21	12 3.9	18.3
40451 1999 RD_{38}	14.6	X	359.08922	218.95271	185.56187	14.22758	0.0934291	0.22971404	2.6404484	21	12 21.6	18.1
40452 1999 RV_{38}	15.5	X	16.43684	293.01672	37.56534	6.84344	0.1444911	0.27184651	2.3600446	21	10 24.9	17.7
40453 1999 RX_{38}	14.8	X	78.13239	275.25522	44.58613	7.09603	0.1270596	0.27852534	2.3221641	21	12 29.9	18.2
40454 1999 RY_{39}	14.8	X	295.80069	129.29146	207.74826	8.38889	0.1654323	0.21441030	2.7646424	21	5 27.7	18.4
40455 1999 RC_{40}	14.2	X	261.80451	36.47259	17.24956	16.86890	0.1253719	0.17067950	3.2187097	21	8 4.7	19.1
40456 1999 RV_{41}	14.2	X	10.83494	328.63734	45.52243	1.97186	0.1803890	0.18217643	3.0818247	21	11 29.1	17.8
40457 Williamkuhn	15.4	X	65.20841	106.88544	160.41471	8.10338	0.1391204	0.27044219	2.3682075	21	10 9.2	18.4
40458 1999 RH_{43}	15.4	X	38.56320	312.75362	358.05926	5.92716	0.1372814	0.27244035	2.3566139	21	10 28.4	18.2
40459 Rektorys	14.7	X	159.57579	210.59470	250.37206	8.31507	0.1161007	0.21456026	2.7633540	21	6 11.6	19.0
40460 1999 RV_{43}	15.1	X	121.01548	194.80094	169.14392	9.65051	0.1373660	0.23982829	2.5656797	21	—	—
40461 1999 RW_{43}	13.8	X	23.34456	215.72294	170.65108	10.11509	0.0977411	0.18414969	3.0597696	21	12 23.0	18.0
40462 1999 RC_{44}	13.3	X	60.56744	328.21142	45.06643	11.86957	0.1652981	0.23178964	2.6246619	21	—	—
40463 Frankkameny	15.2	X	275.81600	32.35339	302.73231	2.44204	0.1819331	0.21292356	2.7774969	21	4 25.9	19.4
40464 1999 RM_{44}	14.5	X	83.06677	149.79253	195.86620	17.83778	0.2306814	0.23572650	2.5953571	21	—	—
40465 1999 RQ_{44}	14.5	X	263.96998	215.58534	178.39784	9.49520	0.0653961	0.21750602	2.7383473	21	7 13.9	18.5
40466 1999 RU_{44}	14.9	X	116.93523	162.21939	172.72889	13.39698	0.1944183	0.24006782	2.5639728	21	—	—
40467 1999 RE_{46}	14.7	X	30.86701	9.14132	344.03138	6.91797	0.1528897	0.27805719	2.3247699	21	12 20.5	17.6
40468 1999 RF_{46}	14.9	X	95.21860	293.91316	321.42607	22.66402	0.3024917	0.27838788	2.3229285	21	10 29.3	19.4
40469 1999 RM_{47}	15.0	X	263.43274	171.84465	200.44484	3.41861	0.1217466	0.26377793	2.4079294	21	6 6.2	18.1
40470 1999 RN_{47}	14.6	X	181.24873	145.59754	233.21171	3.58138	0.2126856	0.25307648	2.4753400	21	3 21.3	18.7
40471 1999 RX_{47}	13.8	X	324.75245	60.31326	336.09226	14.47823	0.2168387	0.22751971	2.6573986	21	10 1.2	16.4
40472 1999 RU_{49}	15.3	X	297.28073	169.71961	165.57524	2.47024	0.2230700	0.26361320	2.4089324	21	5 14.9	18.4
40473 1999 RR_{50}	15.5	X	0.77975	274.73423	41.74601	3.01583	0.1778208	0.26984207	2.3717174	21	9 5.8	17.2
40474 1999 RG_{51}	15.3	X	193.79695	245.18953	148.69099	3.16029	0.0925142	0.25728361	2.4482812	21	4 20.3	18.8
40475 1999 RE_{53}	15.4	X	102.17237	136.99817	261.81118	2.78866	0.1954193	0.24464259	2.5319085	21	1 22.4	18.4
40476 1999 RH_{53}	14.7	X	212.45684	228.19497	176.38427	6.58249	0.1419985	0.25989780	2.4318362	21	5 23.1	18.5
40477 1999 RS_{54}	15.0	X	56.77516	33.57055	315.11180	1.55526	0.0912436	0.23474356	2.6025970	21	12 29.0	18.6
40478 1999 RT_{54}	15.7	X	8.62263	88.96147	188.93403	0.83042	0.1778740	0.26708666	2.3880014	21	7 17.9	17.3
40479 1999 RQ_{60}	14.8	X	104.67605	136.06018	243.73279	2.65384	0.0541579	0.24435982	2.5338614	21	—	—
40480 1999 RK_{61}	14.2	X	307.95138	6.51863	143.40553	8.76021	0.1275898	0.24134058	2.5549504	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40481 1999 RQ_{61}	15.4	X	50.97119	229.72299	352.14264	2.56851	0.1235248	0.26486319	2.4013473	21	7 8.5	17.9
40482 1999 RA_{62}	14.7	X	290.61961	291.94488	174.59014	13.32808	0.1558019	0.23159674	2.6261192	21	11 21.2	17.8
40483 1999 RE_{62}	14.7	X	281.78822	225.29202	135.56611	10.34859	0.1641371	0.21842632	2.7306502	21	6 10.6	18.6
40484 1999 RA_{63}	15.0	X	61.44577	44.90152	257.19473	2.36595	0.1966234	0.27548508	2.3392178	21	11 26.2	18.1
40485 1999 RY_{63}	15.7	X	189.61220	252.01338	7.16188	2.66182	0.1444447	0.28676684	2.2774565	21	—	—
40486 1999 RJ_{64}	15.5	X	341.12345	222.58764	134.51874	7.28376	0.1409389	0.27020605	2.3695871	21	9 27.9	17.6
40487 1999 RP_{66}	14.7	X	109.73821	309.25808	81.70509	3.17240	0.1582545	0.19914360	2.9041909	21	1 27.9	18.6
40488 1999 RV_{66}	14.6	X	336.43484	289.60653	111.65128	5.32202	0.1759201	0.18256636	3.0774350	21	11 3.5	17.9
40489 1999 RH_{67}	15.6	X	57.73483	81.74738	160.56287	2.14360	0.1637954	0.26785437	2.3834363	21	8 25.8	18.2
40490 1999 RY_{67}	14.5	X	183.02818	147.91116	329.60489	8.78343	0.0582462	0.21959920	2.7209186	21	7 29.4	18.4
40491 1999 RJ_{68}	15.1	X	137.07629	207.43976	181.67084	1.86211	0.0807169	0.20265884	2.8705096	21	2 14.6	19.3
40492 1999 RO_{69}	15.3	X	328.93677	195.71923	154.47793	8.09958	0.1240172	0.26757814	2.3850764	21	8 18.1	17.4
40493 1999 RD_{71}	15.6	X	241.17016	261.65320	5.24496	2.81247	0.0525824	0.24686419	2.5166954	21	1 1.8	19.1
40494 1999 RG_{72}	15.2	X	55.43773	261.22836	126.92297	4.44221	0.0650759	0.23760728	2.5816432	21	—	—
40495 1999 RQ_{74}	14.7	X	83.61968	26.51259	5.41735	11.90940	0.0639706	0.19613678	2.9337967	21	—	—
40496 1999 RD_{76}	15.0	X	255.23835	180.97946	186.38425	5.69620	0.0665285	0.21472830	2.7619121	21	5 30.3	18.9
40497 1999 RR_{78}	14.4	X	268.38502	313.45321	167.28627	10.22221	0.0486135	0.18582310	3.0413723	21	11 12.7	18.7
40498 1999 RG_{80}	15.0	X	21.00789	320.41119	276.26077	4.18535	0.0654797	0.21515742	2.7582386	21	6 3.4	18.4
40499 1999 RK_{81}	15.5	X	128.79283	206.43777	171.75376	2.95452	0.0728590	0.24504571	2.5291309	21	1 12.8	18.8
40500 1999 RE_{82}	14.3	X	298.29575	162.56549	187.51495	17.13960	0.0312356	0.17263324	3.1943789	21	7 6.0	19.1
40501 1999 RM_{82}	14.9	X	347.02218	17.81771	277.60402	4.01226	0.0435009	0.21754124	2.7380517	21	7 2.7	18.4
40502 1999 RT_{82}	15.3	X	98.40900	59.82089	282.08344	2.87863	0.1089902	0.23717007	2.5848150	21	—	—
40503 1999 RA_{83}	15.3	X	324.18434	351.02122	325.39049	1.67380	0.1946945	0.26364167	2.4087590	21	6 4.8	17.7
40504 1999 RC_{84}	15.2	X	98.80908	238.17751	134.97892	1.75888	0.1388327	0.24016250	2.5632989	21	—	—
40505 1999 RJ_{84}	15.3	X	19.29660	167.72307	219.43325	2.97723	0.1327807	0.23158883	2.6261789	21	—	—
40506 1999 RB_{86}	15.3	X	100.59429	235.52419	100.39252	3.95463	0.1208945	0.23684796	2.5871580	21	—	—
40507 1999 RK_{86}	15.0	X	269.66122	161.53528	136.19975	7.76897	0.1088605	0.20862829	2.8154895	21	3 15.9	19.2
40508 1999 RU_{86}	15.5	X	288.37376	257.06742	41.02583	3.98145	0.1301224	0.25661702	2.4525192	21	3 28.6	18.6
40509 1999 RJ_{87}	14.5	X	285.64134	268.43718	180.76615	9.26077	0.1296475	0.18093887	3.0958611	21	10 14.1	18.4
40510 1999 RU_{87}	14.6	X	242.62288	192.44205	94.47123	3.30528	0.0329221	0.20279167	2.8692561	21	2 7.1	18.6
40511 1999 RE_{88}	15.8	X	50.79971	279.95891	341.53362	2.04240	0.1693576	0.26791809	2.3830584	21	9 13.0	18.3
40512 1999 RP_{88}	15.1	X	11.19367	91.43500	277.30524	1.65064	0.0993254	0.22861613	2.6488953	21	11 22.9	18.1
40513 1999 RS_{88}	14.6	X	229.23898	137.11797	308.50491	3.66629	0.0660876	0.21922104	2.7240468	21	8 8.9	18.4
40514 1999 RC_{89}	14.9	X	229.25326	23.81510	194.65698	3.57939	0.1113431	0.23810996	2.5780085	21	—	—
40515 1999 RE_{89}	15.0	X	270.21655	114.00696	204.69865	2.42271	0.1033072	0.21054881	2.7983424	21	4 9.9	18.9
40516 1999 RY_{89}	14.1	X	163.18777	311.93071	84.47824	3.33690	0.0854180	0.20564330	2.8426693	21	3 26.6	18.4
40517 1999 RA_{92}	15.6	X	25.78016	155.77120	195.83890	0.91025	0.1925518	0.22867958	2.6484053	21	12 6.3	18.7
40518 1999 RZ_{93}	15.1	X	351.88471	339.93124	160.44304	15.43127	0.0115776	0.24244449	2.5471890	21	—	—
40519 1999 RQ_{94}	15.1	X	288.98234	342.95247	18.31249	6.30082	0.0494460	0.21708616	2.7418770	21	7 8.6	18.8
40520 1999 RG_{95}	14.3	X	234.59584	11.78699	353.36175	8.91044	0.1683410	0.21075377	2.7965278	21	4 21.4	18.9
40521 1999 RL_{95}	14.7	X	205.21340	288.59260	10.81156	12.63487	0.0680912	0.24474691	2.5311890	21	1 4.4	18.6
40522 1999 RT_{95}	15.1	X	259.95240	350.18201	38.70256	7.19167	0.0610813	0.21657057	2.7462269	21	7 4.4	19.0
40523 1999 RX_{95}	14.6	X	124.90318	206.68369	162.51345	14.53388	0.1611317	0.24231240	2.5481146	21	1 9.4	18.2
40524 1999 RA_{96}	14.9	X	253.70609	126.62843	127.54303	4.98597	0.1079655	0.24566113	2.5249052	21	—	—
40525 1999 RO_{96}	16.3	X	323.98770	245.70496	65.17490	1.57137	0.1942982	0.26229589	2.4169911	21	5 27.1	18.4
40526 1999 RV_{96}	14.8	X	267.03268	269.56548	131.01172	3.09922	0.0869039	0.21929102	2.7234672	21	7 24.9	18.6
40527 1999 RS_{98}	15.1	X	203.73806	267.11614	20.23963	7.42673	0.1134826	0.24311666	2.5424918	21	—	—
40528 1999 RT_{98}	13.5	X	265.03044	319.12051	167.66279	15.46188	0.1686414	0.18191398	3.0847881	21	10 30.2	17.9
40529 1999 RC_{99}	15.1	X	323.10432	211.16100	69.39025	5.86816	0.2640742	0.25934637	2.4352820	21	4 1.1	17.9
40530 1999 RE_{99}	15.5	X	105.99645	336.10541	280.01986	6.20211	0.0915579	0.27692852	2.3310822	21	11 2.7	18.7
40531 1999 RB_{100}	14.8	X	242.43217	139.08097	238.74832	7.85515	0.1578220	0.21625700	2.7488810	21	5 18.3	18.9
40532 1999 RY_{100}	14.9	X	193.12292	110.46565	350.32136	8.48563	0.1095149	0.21836870	2.7311305	21	7 17.9	19.2
40533 1999 RH_{102}	15.3	X	19.16744	342.09736	199.68988	14.13717	0.0443010	0.25410328	2.4686671	21	3 8.2	18.3
40534 1999 RT_{102}	14.4	X	234.14789	37.21644	241.89266	6.84321	0.1701525	0.29439493	2.2379437	21	—	—
40535 1999 RG_{103}	14.6	X	108.04231	150.53489	218.55980	12.70233	0.1748473	0.24147944	2.5539709	21	—	—
40536 1999 RL_{103}	14.8	X	327.73006	56.90047	248.14898	6.02397	0.1122804	0.26305704	2.4123266	21	6 7.2	17.1
40537 1999 RT_{103}	14.8	X	76.29023	200.58535	185.41350	13.33589	0.2437387	0.23825756	2.5769436	21	—	—
40538 1999 RV_{103}	14.2	X	43.30596	11.47449	275.27549	5.74240	0.1157336	0.27014989	2.3699155	21	9 25.8	17.0
40539 1999 RL_{104}	14.9	X	299.20494	187.54795	217.43008	11.25513	0.1769554	0.22345315	2.6895424	21	8 29.1	18.2
40540 1999 RZ_{104}	15.0	X	300.70362	88.46418	241.20310	1.72633	0.1749048	0.26059734	2.4274822	21	5 19.2	17.8
40541 1999 RE_{106}	14.5	X	222.14465	158.58821	204.85970	8.62014	0.1672077	0.20985073	2.8045449	21	4 10.9	19.0
40542 1999 RS_{106}	15.0	X	345.85629	53.39554	241.77666	7.44225	0.0784455	0.21721935	2.7407561	21	6 28.2	18.3
40543 1999 RZ_{107}	14.9	X	266.67866	103.47417	266.39001	5.24215	0.0339871	0.21665183	2.7455402	21	6 21.1	18.6
40544 1999 RA_{108}	14.7	X	261.49343	244.58503	192.50618	13.32685	0.0522117	0.22346665	2.6894341	21	9 8.1	18.4
40545 1999 RO_{109}	14.6	X	65.26869	355.17312	330.78899	12.79871	0.1692011	0.23120736	2.6290668	21	12 20.1	18.7
40546 1999 RY_{109}	14.3	X	315.99902	83.34105	300.93868	9.60933	0.0977656	0.17589413	3.1547757	21	9 3.6	18.4
40547 1999 RH_{111}	14.6	X	26.51138	239.01839	169.89420	13.70060	0.1625978	0.23767035	2.5811865	21	—	—
40548 1999 RK_{112}	15.0	X	204.01340	67.81566	290.06439	4.87527	0.1073243	0.25480186	2.4641529	21	3 12.4	18.8
40549 1999 RP_{112}	15.4	X	346.20412	97.81236	194.86906	5.97153	0.0987839	0.26591579	2.3950061	21	6 23.5	18.0
40550 1999 RM_{113}	15.5	X	188.43247	275.11416	304.25388	3.38792	0.0980155	0.28290630	2.2981285	21	12 18.2	18.6
40551 1999 RS_{113}	14.6	X	153.68573	131.66623	232.11073	11.08318	0.0530083	0.20223359	2.8745323	21	1 27.3	18.9
40552 1999 RX_{114}	14.2	X	239.82527	88.28115	303.28535	7.23210	0.0612916	0.21610351	2.7501825	21	6 11.8	18.2
40553 1999 RE_{115}	15.2	X	43.90298	237.17083	13.40384	2.63380	0.1296181	0.26749181	2.3855896	21	8 10.9	17.7
40554 1999 RG_{115}	15.2	X	55.90960	188.54145	146.79365	5.54228	0.2955374	0.23289111	2.6163797	21	—	—
40555 1999 RM_{115}	15.2	X	115.61537	159.40083	149.22229	11.30151	0.1189990	0.23773093	2.5807479	21	—	—
40556 1999 RS_{115}	14.8	X	207.32039	130.83750	156.21444	6.22345	0.1524068	0.29258972	2.2471394	21	—	—
40557 1999 RX_{116}	14.8	X	124.20522	194.01005	151.57226	14.30484	0.1880179	0.24278681	2.5447942	21	—	—
40558 1999 RE_{118}	15.2	X	95.90849	78.77198	231.63957	4.05584	0.1923295	0.28117896	2.3075308	21	—	—
40559 1999 RO_{118}	14.7	X	188.31856	62.59528	178.57209	7.05628	0.0789602	0.28465436	2.2887103	21	—	—
40560 1999 RQ_{118}	14.6	X	326.77872	161.44541	229.39881	4.58579	0.1089461	0.22789364	2.6544910	21	10 9.1	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40561 1999 RR_{118}	15.6	X	17.61476	117.98393	205.87985	5.66480	0.1452886	0.27241438	2.3567636	21	10 16.6	17.8
40562 1999 RB_{121}	15.3	X	160.24009	28.61898	228.65920	6.76346	0.0899121	0.28284562	2.2984572	21	—	—
40563 1999 RZ_{122}	14.9	X	294.10836	101.93547	228.91649	5.63758	0.0385822	0.21584174	2.7524056	21	6 5.1	18.4
40564 1999 RZ_{123}	13.5	X	113.82872	290.07425	269.60483	12.47982	0.1587142	0.22121653	2.7076405	21	8 26.6	17.9
40565 1999 RD_{124}	15.1	X	289.49113	110.09172	177.85786	2.11499	0.1647437	0.25634913	2.4542275	21	3 10.5	18.4
40566 1999 RE_{124}	14.8	X	93.40938	141.77216	194.95557	13.76438	0.1148905	0.23601961	2.5932078	21	—	—
40567 1999 RB_{126}	14.3	X	249.24134	312.58119	170.91441	15.41404	0.1138471	0.22935180	2.6432279	21	10 20.1	18.0
40568 1999 RF_{126}	13.8	X	140.46534	15.24291	322.16834	13.42408	0.0988035	0.24339443	2.5405571	21	—	—
40569 1999 RH_{128}	15.2	X	221.02805	122.09358	240.14951	2.39741	0.1824603	0.25597440	2.4566221	21	4 3.7	19.3
40570 1999 RV_{128}	15.1	X	50.65523	105.40807	283.30506	2.80037	0.2489351	0.23603183	2.5931183	21	—	—
40571 1999 RD_{129}	15.2	X	170.51582	316.21493	315.19007	2.82626	0.1621167	0.28625704	2.2801597	21	—	—
40572 1999 RP_{129}	15.4	X	46.48773	335.67438	340.89085	6.38155	0.1305200	0.27522469	2.3406930	21	11 15.5	18.4
40573 1999 RE_{130}	13.5	X	328.05155	89.65819	338.06876	8.60746	0.2460726	0.18437912	3.0572308	21	11 15.3	16.5
40574 1999 RO_{130}	15.5	X	57.17920	353.05419	321.72749	5.77201	0.1328411	0.27612928	2.3355782	21	11 28.4	18.6
40575 1999 RS_{130}	15.0	X	53.76196	151.03353	193.41324	3.99674	0.2308646	0.23322872	2.6138542	21	—	—
40576 1999 RM_{133}	13.9	X	40.87815	175.77045	221.79963	8.99664	0.0791727	0.19207045	2.9750597	21	—	—
40577 1999 RQ_{134}	15.0	X	209.03008	68.70641	305.93238	5.50737	0.0766739	0.21121310	2.7924719	21	4 12.1	19.3
40578 1999 RT_{134}	13.8	X	329.79098	198.37195	202.39130	3.92342	0.2272533	0.18122678	3.0925814	21	10 15.3	16.6
40579 1999 RJ_{135}	16.1	X	96.09083	329.23385	339.55260	2.75400	0.1698492	0.28050635	2.3112180	21	—	—
40580 1999 RN_{135}	15.3	X	118.60520	319.32291	28.85475	2.23099	0.1393012	0.24167380	2.5526014	21	—	—
40581 1999 RK_{136}	16.3	X	97.17140	314.86617	353.23231	4.28466	0.2471726	0.28080045	2.3096040	21	—	—
40582 1999 RC_{137}	15.6	X	35.61468	334.55015	302.52329	1.73836	0.2097167	0.27012181	2.3700797	21	9 18.0	17.9
40583 1999 RR_{137}	15.0	X	61.64046	248.16373	164.34406	9.45365	0.1364675	0.24107672	2.5568144	21	—	—
40584 1999 RJ_{140}	14.7	X	302.23759	275.83885	181.95530	11.62806	0.1630135	0.23156073	2.6263914	21	11 28.4	17.6
40585 1999 RL_{140}	15.4	X	40.73799	337.29911	37.93533	0.22402	0.1949547	0.23415333	2.6069687	21	—	—
40586 1999 RZ_{140}	14.5	X	316.88111	57.40328	349.11654	0.59784	0.1574058	0.18103039	3.0948176	21	10 3.1	17.8
40587 1999 RB_{141}	15.6	X	56.05404	172.46955	145.91915	6.89457	0.1277507	0.27601088	2.3362461	21	12 3.6	18.7
40588 1999 RF_{141}	14.7	X	71.80911	71.88111	171.94254	14.16229	0.0561790	0.22189289	2.7021355	21	8 25.6	18.3
40589 1999 RP_{141}	15.5	X	163.58986	8.80219	319.01923	3.79554	0.0791464	0.24553788	2.5257501	21	—	—
40590 1999 RQ_{141}	15.6	X	119.85937	81.52935	170.78666	5.13676	0.0864272	0.27691206	2.3311746	21	11 16.4	18.9
40591 1999 RR_{142}	15.4	X	339.19689	166.01399	162.07555	12.70336	0.1403321	0.26572166	2.3961725	21	8 1.0	17.8
40592 1999 RM_{143}	15.0	X	37.75292	315.80725	7.53317	4.96473	0.2492416	0.22825601	2.6516807	21	11 23.6	18.4
40593 1999 RZ_{144}	15.0	X	162.92957	47.16829	207.56327	7.87421	0.1987993	0.28356297	2.2945791	21	12 28.8	18.8
40594 1999 RW_{146}	15.1	X	329.16149	359.94334	254.85223	5.54703	0.0957777	0.25776180	2.4452523	21	3 27.1	18.0
40595 1999 RY_{146}	15.4	X	172.10851	65.04596	249.85979	5.25386	0.1260488	0.24477751	2.5309780	21	—	—
40596 1999 RA_{148}	13.5	X	331.95844	84.26577	313.83434	7.40435	0.1829589	0.18140254	3.0905834	21	10 14.4	16.9
40597 1999 RG_{149}	14.8	X	275.16346	188.00174	170.13499	2.12075	0.0919044	0.21730562	2.7400306	21	6 8.0	18.4
40598 1999 RM_{149}	16.1	X	356.60700	0.30775	349.02924	2.64357	0.2512139	0.27115916	2.3640312	21	10 28.1	17.6
40599 1999 RX_{150}	15.0	X	240.04881	57.38413	7.22363	5.22879	0.1652057	0.21926702	2.7236660	21	7 15.3	19.1
40600 1999 RZ_{150}	15.5	X	93.47782	205.27920	91.00086	2.64060	0.1446714	0.27867814	2.3213152	21	12 17.3	18.9
40601 1999 RQ_{151}	14.7	X	48.11165	327.56323	89.66734	3.18419	0.0911419	0.19507297	2.9444531	21	—	—
40602 1999 RO_{152}	15.5	X	71.70152	167.36671	167.43209	7.12570	0.1953050	0.27935968	2.3175382	21	—	—
40603 1999 RD_{154}	14.5	X	154.87970	126.53311	322.55147	8.39726	0.1169902	0.21188324	2.7865809	21	5 20.5	18.9
40604 1999 RO_{154}	15.0	X	97.16159	89.40308	282.10827	2.40951	0.0738072	0.24104158	2.5570628	21	—	—
40605 1999 RA_{155}	14.7	X	167.54164	232.55253	187.01662	6.22508	0.0543804	0.21054207	2.7984021	21	4 26.3	18.7
40606 1999 RR_{157}	14.8	X	231.88805	348.49077	9.78675	8.30409	0.2325800	0.21136028	2.7911754	21	4 9.3	19.5
40607 1999 RH_{158}	14.7	X	55.85916	279.29802	99.23087	2.11707	0.1539836	0.19064698	2.9898502	21	—	—
40608 1999 RS_{159}	15.7	X	34.66017	142.44222	142.76528	7.75911	0.1107769	0.26913853	2.3758488	21	9 14.4	18.2
40609 1999 RD_{160}	15.0	X	131.80350	267.92233	21.98121	7.47583	0.1834274	0.28278768	2.2987711	21	—	—
40610 1999 RF_{160}	14.6	X	332.17983	311.76449	55.80733	4.90446	0.2352830	0.22404869	2.6847743	21	9 12.1	16.8
40611 1999 RS_{160}	15.2	X	20.04762	242.47677	56.81509	2.94226	0.2087033	0.26964305	2.3728843	21	9 25.2	17.2
40612 1999 RM_{162}	14.6	X	326.33801	4.38264	43.00983	10.31712	0.0713267	0.18059036	3.0998429	21	10 26.6	18.5
40613 1999 RR_{162}	14.9	X	156.88013	351.64919	332.95074	13.23687	0.2036813	0.24336768	2.5407433	21	—	—
40614 1999 RW_{162}	14.7	X	205.21878	205.45510	219.09021	5.33289	0.0344156	0.21580788	2.7526935	21	6 15.4	18.5
40615 1999 RD_{163}	14.5	X	268.36928	71.66950	294.98373	4.45371	0.1349138	0.21644540	2.7472856	21	6 3.9	18.5
40616 1999 RW_{163}	14.8	X	83.77053	162.78810	234.17104	1.17745	0.0748387	0.19680067	2.9271951	21	—	—
40617 1999 RZ_{163}	14.3	X	159.13698	226.81931	168.64631	13.65492	0.1404484	0.20564868	2.8426197	21	3 24.8	18.8
40618 1999 RG_{164}	15.4	X	70.66928	108.25718	197.96840	2.48572	0.0805975	0.23043527	2.6349361	21	11 20.3	19.1
40619 1999 RQ_{165}	15.3	X	70.87862	104.18195	208.51349	1.31544	0.0674196	0.23095316	2.6309955	21	11 26.8	18.8
40620 1999 RH_{168}	15.0	X	57.16884	7.16898	25.44675	1.38474	0.1217996	0.19210783	2.9746737	21	—	—
40621 1999 RG_{169}	14.5	X	168.98796	105.30794	329.53220	8.10770	0.1384224	0.21090747	2.7951690	21	5 17.6	19.0
40622 1999 RY_{169}	15.9	X	346.34943	334.55206	304.30318	1.78268	0.1767660	0.26283267	2.4136992	21	5 25.0	18.0
40623 1999 RO_{170}	14.8	X	156.73397	286.55477	171.83086	5.47283	0.0549398	0.21333028	2.7739654	21	6 2.5	18.9
40624 1999 RJ_{171}	15.5	X	345.18703	289.80818	20.82647	2.69089	0.1411440	0.26550256	2.3974906	21	7 19.1	17.5
40625 1999 RJ_{172}	14.6	X	247.71691	12.60749	20.27286	7.16443	0.1026801	0.21662569	2.7457611	21	6 17.9	18.6
40626 1999 RP_{172}	15.4	X	173.38516	251.36998	42.72685	4.96211	0.1418521	0.24247834	2.5469519	21	—	—
40627 1999 RJ_{173}	15.0	X	4.64014	212.16877	122.40356	8.15857	0.1618941	0.22521573	2.6754915	21	10 6.3	17.9
40628 1999 RV_{173}	14.9	X	127.43354	330.78258	7.30824	11.04748	0.1423642	0.24081962	2.5586339	21	—	—
40629 1999 RX_{173}	14.8	X	308.58529	200.67661	114.47759	4.46539	0.2221272	0.26200360	2.4187884	21	5 3.9	17.7
40630 1999 RA_{174}	14.1	X	350.76659	32.83915	359.71723	12.08449	0.1026094	0.22937037	2.6430853	21	11 19.2	17.4
40631 1999 RX_{174}	15.3	X	201.11965	171.38445	137.51578	3.32487	0.1139526	0.24688457	2.5165569	21	1 11.3	19.1
40632 1999 RJ_{175}	16.1	X	71.63763	208.26867	63.05347	0.87907	0.2015050	0.27290142	2.3539588	21	10 29.1	19.4
40633 1999 RR_{177}	15.6	X	145.70953	182.77726	129.68353	1.89139	0.1754706	0.24082450	2.5585993	21	—	—
40634 1999 RH_{178}	15.9	X	142.12386	123.35368	150.59480	6.11225	0.1668801	0.28164159	2.3050031	21	—	—
40635 1999 RV_{179}	15.5	X	316.99349	236.94217	108.10754	5.65101	0.1327745	0.26527090	2.3988862	21	7 16.8	17.7
40636 1999 RW_{179}	15.2	X	283.81226	203.47239	139.30030	10.42123	0.1605621	0.26100232	2.4249705	21	5 19.9	18.6
40637 1999 RP_{180}	14.7	X	299.93669	350.20839	150.62466	14.40976	0.0388737	0.23683751	2.5872341	21	—	—
40638 1999 RS_{180}	15.7	X	195.07431	216.73948	97.16326	4.11240	0.1364882	0.24676611	2.5173622	21	1 12.9	19.6
40639 1999 RW_{180}	15.8	X	0.14680	273.23768	47.68775	3.42513	0.1879686	0.26847013	2.3797906	21	9 12.9	17.6
40640 1999 RQ_{181}	14.6	X	326.33237	319.87509	58.62047	1.48800	0.2082294	0.17777246	3.1325143	21	9 8.0	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40641 1999 RV_{181}	15.8	X	158.08203	318.15983	356.64701	1.73450	0.1455713	0.24212750	2.5494116	21	—	—
40642 1999 RW_{181}	15.0	X	168.81887	258.06493	157.98507	2.41655	0.0936946	0.20885371	2.8134633	21	4 25.3	19.3
40643 1999 RG_{182}	15.3	X	306.31179	151.47847	176.15808	2.66537	0.1783134	0.26225779	2.4172252	21	5 24.9	18.1
40644 1999 RH_{183}	14.1	X	98.01688	277.23431	166.15531	10.93985	0.1361379	0.20241606	2.8728045	21	3 15.6	18.0
40645 1999 RS_{183}	14.2	X	295.86977	88.85848	88.06272	2.54012	0.0737375	0.24091670	2.5579464	21	—	—
40646 1999 RV_{184}	15.6	X	47.61915	168.01691	117.75302	5.68122	0.2125443	0.27147866	2.3621760	21	10 23.5	18.5
40647 1999 RD_{185}	15.6	X	349.36309	172.84049	95.25606	5.41130	0.2083711	0.26236101	2.4165912	21	5 12.5	17.5
40648 1999 RO_{185}	15.0	X	224.41258	230.76998	250.23190	2.26477	0.0172456	0.22508950	2.6764917	21	9 24.2	18.5
40649 1999 RY_{186}	14.5	X	278.18610	233.57501	317.18457	2.34193	0.1767817	0.24153508	2.5535786	21	—	—
40650 1999 RS_{187}	14.7	X	218.67501	65.94654	6.25321	9.33245	0.0966530	0.21716801	2.7411880	21	7 8.8	18.9
40651 1999 RJ_{189}	15.4	X	314.50517	43.47969	225.02871	0.97540	0.3119703	0.21365218	2.7711785	21	2 28.2	19.1
40652 1999 RP_{189}	15.5	X	75.63030	169.07295	131.53728	4.33007	0.1546702	0.23059717	2.6337026	21	11 28.6	19.4
40653 1999 RS_{190}	16.4	X	43.87054	23.05541	274.19948	1.60227	0.2119185	0.27210395	2.3585558	21	10 30.6	19.3
40654 1999 RH_{191}	15.2	X	147.63240	169.94668	94.98637	5.11801	0.1378487	0.23655198	2.5893156	21	12 23.1	19.1
40655 1999 RM_{191}	15.2	X	146.08601	172.89196	142.49787	5.42163	0.2000921	0.23890729	2.5722694	21	—	—
40656 1999 RY_{191}	13.7	X	336.47748	263.44729	86.39247	15.59323	0.0995405	0.22260390	2.6963786	21	9 6.8	17.1
40657 1999 RE_{192}	15.3	X	75.92323	236.46549	80.67516	4.70465	0.2281783	0.23357197	2.6112928	21	12 25.9	19.4
40658 1999 RD_{193}	14.6	X	203.67795	296.42840	101.30096	8.91843	0.1308496	0.21064265	2.7975112	21	5 10.1	19.1
40659 1999 RK_{193}	14.4	X	122.38398	231.17622	94.19628	14.07953	0.1533430	0.19259136	2.9696928	21	—	—
40660 1999 RH_{194}	14.6	X	93.52799	34.26408	291.04881	3.87493	0.1159880	0.23473695	2.6026459	21	—	—
40661 1999 RS_{194}	13.1	X	314.74055	153.68649	231.09093	5.19268	0.1460214	0.17680946	3.1438782	21	8 29.6	17.0
40662 1999 RD_{195}	14.3	X	270.25560	77.43481	264.05313	7.77983	0.1675139	0.21435313	2.7651339	21	4 28.7	18.4
40663 1999 RR_{195}	14.0	X	240.28995	225.65140	221.39213	10.09213	0.1345963	0.22182190	2.7027120	21	8 11.9	18.2
40664 1999 RF_{196}	14.4	X	47.84047	164.12048	196.08377	14.95804	0.1423822	0.23311566	2.6146993	21	—	—
40665 1999 RE_{197}	15.4	X	336.15488	24.77941	278.34688	5.61137	0.1401777	0.26316610	2.4116600	21	6 16.6	17.5
40666 1999 RS_{197}	14.9	X	272.86968	346.05408	286.01397	7.10328	0.1801996	0.25277134	2.4773317	21	1 30.0	18.7
40667 1999 RB_{200}	13.9	X	199.04403	340.61382	297.66536	13.99804	0.1014292	0.24253389	2.5465630	21	—	—
40668 1999 RX_{200}	14.9	X	285.95628	351.97301	251.39758	10.45492	0.0551390	0.24806982	2.5085346	21	1 20.6	18.5
40669 1999 RN_{201}	14.2	X	39.40452	120.02927	297.02855	9.78993	0.0910609	0.19160406	2.9798855	21	—	—
40670 1999 RW_{201}	14.2	X	59.15822	74.99794	238.77405	12.57033	0.2033855	0.22966116	2.6408537	21	12 2.1	17.9
40671 1999 RE_{202}	13.6	X	54.60195	148.65250	280.07602	9.63937	0.1268228	0.19434819	2.9517691	21	—	—
40672 1999 RJ_{202}	14.8	X	189.30344	11.27619	276.21675	6.76403	0.2272750	0.24356225	2.5393900	21	—	—
40673 1999 RL_{203}	14.8	X	150.74666	5.76902	281.82564	10.43994	0.0528568	0.23683675	2.5872396	21	—	—
40674 1999 RX_{203}	14.9	X	238.40427	302.24199	310.52633	12.12766	0.1267397	0.24434737	2.5339474	21	—	—
40675 1999 RU_{205}	14.3	X	10.08374	79.79752	294.62670	8.93227	0.0808928	0.18295952	3.0730247	21	11 15.3	18.4
40676 1999 RN_{206}	14.9	X	74.33968	127.64017	227.09016	13.94514	0.1209139	0.23449345	2.6044473	21	—	—
40677 1999 RP_{206}	13.5	X	245.50376	225.44050	221.69826	21.46687	0.1246872	0.17419447	3.1752638	21	8 13.2	18.7
40678 1999 RY_{206}	14.7	X	44.71421	150.52321	230.26724	14.07673	0.1334431	0.23316983	2.6142943	21	—	—
40679 1999 RO_{207}	14.0	X	263.93582	168.16960	304.45292	8.66098	0.0479510	0.18137193	3.0909311	21	10 20.8	18.5
40680 1999 RY_{209}	15.2	X	97.10137	19.87201	267.81164	3.96589	0.2568409	0.27698900	2.3307429	21	12 16.5	19.1
40681 1999 RL_{211}	13.8	X	55.73670	137.00912	238.63990	7.73978	0.1446683	0.18774356	3.0205963	21	—	—
40682 1999 RM_{211}	14.3	X	73.63253	211.52419	326.73451	9.46577	0.0138040	0.21057340	2.7981246	21	5 23.9	18.3
40683 1999 RB_{213}	14.0	X	353.23295	63.38854	251.96534	10.09573	0.1139558	0.21866896	2.7286298	21	8 4.8	17.2
40684 Vanhoeck	15.4	X	53.11325	350.77615	189.69749	3.15924	0.0304515	0.21085467	2.7956356	21	5 3.8	19.1
40685 1999 RL_{217}	15.2	X	251.95879	223.96974	148.70756	8.25265	0.1884547	0.26217966	2.4177054	21	5 18.8	18.9
40686 1999 RD_{220}	14.6	X	325.42721	280.54736	102.11080	8.74681	0.0775275	0.22441363	2.6818628	21	10 2.7	17.9
40687 1999 RS_{220}	14.3	X	239.51922	275.54379	202.56188	12.80432	0.1558622	0.22538024	2.6741894	21	9 19.8	18.3
40688 1999 RL_{223}	13.9	X	33.94276	263.19122	130.45433	9.63903	0.0928085	0.19128954	2.9831510	21	—	—
40689 1999 RG_{224}	14.8	X	334.19733	247.22331	137.17849	12.21290	0.1970927	0.22577875	2.6710417	21	10 18.8	17.4
40690 1999 RV_{225}	15.2	X	254.75999	197.82521	193.95192	3.40718	0.0974573	0.21963982	2.7205831	21	6 25.8	19.0
40691 1999 RH_{227}	14.9	X	307.40163	62.32339	236.45166	9.18083	0.2648232	0.25902548	2.4372929	21	3 28.6	18.2
40692 1999 RE_{228}	14.9	X	256.80287	52.07726	228.05923	5.49116	0.1206654	0.25298281	2.4759510	21	1 28.1	18.6
40693 1999 RX_{229}	15.2	X	290.04170	243.72398	106.87322	6.81589	0.1387381	0.26368484	2.4084960	21	6 9.3	18.1
40694 1999 RY_{230}	14.4	X	277.27699	218.06747	78.51831	7.97169	0.1158504	0.25429850	2.4674035	21	3 18.8	17.9
40695 1999 RA_{231}	15.2	X	150.42390	226.06639	133.73955	12.76456	0.1127667	0.24474912	2.5311738	21	1 21.2	18.8
40696 1999 RU_{231}	14.5	X	359.67320	253.43722	128.22455	15.25969	0.0675043	0.23051586	2.6343219	21	11 24.7	18.0
40697 1999 RZ_{231}	14.6	X	358.10176	216.68845	110.58867	7.50123	0.1391867	0.26960694	2.3730962	21	9 16.7	16.8
40698 1999 RT_{232}	15.0	X	80.59583	320.78372	27.53198	5.68837	0.1805903	0.28192787	2.3034425	21	—	—
40699 1999 RB_{235}	14.2	X	206.99792	2.89761	149.31068	14.31559	0.0934446	0.22567680	2.6718461	21	10 10.4	18.3
40700 1999 RF_{235}	15.0	X	325.03929	189.19876	122.85478	6.07390	0.1435773	0.26263037	2.4149386	21	6 9.2	17.4
40701 1999 RG_{235}	14.6	X	251.57561	322.71090	92.37609	6.12695	0.1573720	0.21784697	2.7354894	21	7 15.6	18.5
40702 1999 RH_{236}	13.6	X	73.54882	276.36614	141.06928	13.51003	0.1642489	0.24053776	2.5606322	21	—	—
40703 1999 RR_{237}	14.6	X	129.11542	222.97276	119.26176	10.78158	0.0482779	0.19416664	2.9536088	21	—	—
40704 1999 RB_{238}	14.8	X	338.39967	178.66638	110.93326	10.51749	0.1251688	0.21528205	2.7571740	21	6 5.9	18.0
40705 1999 RG_{239}	14.9	X	295.61511	314.82232	43.02360	8.46831	0.0951364	0.21737378	2.7394578	21	7 6.0	18.5
40706 1999 RO_{240}	14.3	X	173.45585	195.66441	141.29605	18.07822	0.1162362	0.19953936	2.9003495	21	1 25.4	18.9
40707 1999 RV_{240}	14.6	X	354.05413	297.39721	85.61958	11.99489	0.1875131	0.22723615	2.6596088	21	11 25.5	17.2
40708 1999 RR_{242}	14.5	X	102.98770	261.26625	53.02187	5.76682	0.1475993	0.28049469	2.3112821	21	—	—
40709 1999 RW_{242}	14.0	X	314.58860	300.03620	135.43749	14.46556	0.1452071	0.22874058	2.6479345	21	11 23.7	17.1
40710 1999 RS_{245}	14.4	X	204.64779	298.44800	129.21044	9.97600	0.1482713	0.21563833	2.7541361	21	6 14.9	19.0
40711 1999 RU_{245}	15.3	X	39.61382	356.18402	36.31693	4.65219	0.1797897	0.23550747	2.5969659	21	—	—
40712 1999 RB_{246}	14.5	X	198.37598	189.07951	88.83851	6.70707	0.2262541	0.20037582	2.8922722	21	—	—
40713 1999 RT_{248}	15.1	X	178.93246	106.17047	241.95579	0.87698	0.0665614	0.20214900	2.8753342	21	2 9.9	19.3
40714 1999 RS_{252}	14.1	X	14.22598	212.98943	218.11333	9.95783	0.0859119	0.19035481	2.9929088	21	—	—
40715 1999 RX_{253}	15.6	X	68.87433	297.91787	330.67242	4.71249	0.0588848	0.27277343	2.3546950	21	9 29.7	18.6
40716 1999 SL	13.6	X	215.82183	11.95154	30.29895	8.65406	0.2270897	0.21043359	2.7993638	21	5 18.9	18.4
40717 1999 SC_2	14.1	X	322.01158	196.24241	206.00416	24.14796	0.2482707	0.27000154	2.3707834	21	10 20.5	15.4
40718 1999 SU_2	14.6	X	319.75611	170.88340	195.32489	4.89825	0.1725451	0.17462698	3.1700187	21	8 10.6	18.4
40719 1999 SZ_2	15.6	X	205.21378	331.61460	356.55014	4.94634	0.2683053	0.29738299	2.2229275	21	2 6.8	19.3
40720 1999 SL_6	15.0	X	113.80458	213.59372	110.56856	11.11047	0.1512843	0.23744206	2.5828406	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40721 1999 SM_6	14.1	X	226.46789	153.59362	54.95721	13.78832	0.0979649	0.23622440	2.5917089	21	—	—
40722 1999 SO_6	15.1	X	83.98314	286.33964	55.22139	14.59241	0.2198417	0.23485245	2.6017924	21	—	—
40723 1999 SF_7	14.7	X	113.14792	286.24282	38.40098	10.46488	0.2384781	0.23929160	2.5695145	21	—	—
40724 1999 SY_8	13.6	X	317.29630	137.55678	5.42839	13.56807	0.1037848	0.24102257	2.5571973	21	—	—
40725 1999 SP_9	15.0	X	84.92184	52.34694	217.68500	12.29624	0.1314566	0.22680860	2.6629502	21	10 27.4	18.8
40726 1999 SG_{11}	14.0	X	94.27132	318.91970	64.87707	10.24746	0.0601557	0.19263388	2.9692557	21	—	—
40727 1999 SQ_{11}	14.6	X	293.50418	293.46757	76.82127	5.81439	0.1270462	0.21665602	2.7455048	21	7 14.9	18.2
40728 1999 SS_{11}	14.5	X	88.56204	247.61016	94.15366	4.44674	0.2237424	0.23419804	2.6066370	21	—	—
40729 1999 SJ_{12}	13.9	X	44.56686	233.41739	51.95933	24.64078	0.2481277	0.27096060	2.3651859	21	10 28.4	17.0
40730 1999 SY_{12}	13.4	X	316.15526	253.82257	126.98282	19.42394	0.2681043	0.17542691	3.1603747	21	8 12.9	16.9
40731 1999 SB_{13}	14.2	X	66.29891	240.63636	130.95396	15.74522	0.1609894	0.23507056	2.6001828	21	—	—
40732 1999 SC_{13}	13.6	X	325.61471	326.70414	57.89700	12.91463	0.1896793	0.17734450	3.1375518	21	9 23.8	17.3
40733 1999 SM_{17}	14.5	X	267.35966	248.61621	121.85198	7.50137	0.1480973	0.26220512	2.4175489	21	6 5.9	17.8
40734 1999 SB_{19}	13.8	X	291.71355	28.88825	30.42309	27.68141	0.1445008	0.17703634	3.1411917	21	9 25.0	18.2
40735 1999 SU_{19}	15.2	X	21.65718	268.98676	87.07591	5.86356	0.1684435	0.22883288	2.6472224	21	12 2.7	18.2
40736 1999 SD_{20}	14.4	X	128.87792	252.09364	57.27562	14.63400	0.1883032	0.23732065	2.5837214	21	—	—
40737 1999 SE_{20}	15.1	X	76.51399	265.75569	65.11337	12.43660	0.1742011	0.23263769	2.6182794	21	—	—
40738 1999 SG_{20}	13.1	X	296.51702	306.98710	101.21618	13.17051	0.1939069	0.17491747	3.1665081	21	8 31.4	17.3
40739 1999 SX_{25}	14.1	X	221.01930	326.30127	251.44816	12.30129	0.1291077	0.23855716	2.5747857	21	—	—
40740 1999 SF_{27}	15.0	X	10.12235	168.03685	218.32455	13.91041	0.1092022	0.23109195	2.6299420	21	12 16.3	18.3
40741 1999 TD	13.4	X	271.95527	255.33925	200.77702	22.37469	0.2260690	0.17648063	3.1477822	21	9 15.2	18.0
40742 1999 TK	14.5	X	309.93937	347.23046	75.98858	2.16678	0.1864078	0.17823071	3.1271426	21	10 10.6	18.1
40743 1999 TL	14.3	X	281.02137	12.90075	89.63248	2.14976	0.1303580	0.18049651	3.1009172	21	10 23.9	18.2
40744 1999 TG_1	14.5	X	122.68449	74.16144	307.44201	0.96281	0.1345952	0.19666881	2.9285033	21	1 28.5	18.5
40745 1999 TN_2	14.2	X	351.57850	286.40071	106.61008	13.96492	0.1917212	0.22726548	2.6593800	21	12 5.9	16.9
40746 1999 TP_2	14.9	X	76.58874	207.39603	83.44065	12.61146	0.1611905	0.27325145	2.3519481	21	11 25.5	18.2
40747 1999 TK_5	14.3	X	172.68824	97.45257	212.47252	12.09330	0.2136789	0.24178954	2.5517867	21	—	—
40748 1999 TO_5	15.1	X	287.26563	309.86671	20.27837	5.14825	0.2117610	0.25859387	2.4400041	21	4 25.4	18.6
40749 1999 TP_6	14.2	X	354.77430	296.10176	92.77673	2.62854	0.2077904	0.18057543	3.1000137	21	11 22.5	17.3
40750 1999 TA_7	15.9	X	333.49113	125.25276	177.45026	2.43466	0.1750790	0.26107228	2.4245373	21	6 6.1	18.0
40751 1999 TD_7	14.5	X	188.75195	213.21185	182.87711	3.98816	0.1898990	0.20655175	2.8343282	21	4 22.5	19.3
40752 1999 TO_7	13.6	X	51.62139	325.52491	55.07707	14.39013	0.1734508	0.23118450	2.6292401	21	—	—
40753 1999 TK_8	15.9	X	20.50490	211.72816	71.65522	1.34012	0.2271278	0.26557277	2.3970680	21	9 2.2	17.8
40754 1999 TM_8	15.0	X	131.05340	320.90762	77.40690	3.13976	0.0989429	0.19959113	2.8998479	21	2 23.6	19.2
40755 1999 TO_8	14.4	X	234.60518	151.69713	160.67563	2.30374	0.0718163	0.20280434	2.8691366	21	2 25.8	18.5
40756 1999 TQ_8	13.9	X	218.87532	36.75956	211.65986	9.48114	0.0179608	0.19177318	2.9781333	21	—	—
40757 1999 TS_8	15.3	X	149.60156	333.28652	356.66129	4.04081	0.2102460	0.24102759	2.5571618	21	—	—
40758 1999 TT_8	14.0	X	64.39572	127.71565	216.66338	8.01869	0.1534213	0.18560626	3.0437406	21	12 29.7	18.6
40759 1999 TY_9	14.1	X	183.51374	267.54589	246.25133	7.09620	0.1535133	0.22186166	2.7023891	21	9 6.8	18.6
40760 1999 TH_{11}	13.1	X	275.86142	178.15404	223.17979	14.60957	0.0783018	0.17189699	3.2034937	21	8 1.2	17.9
40761 1999 TT_{13}	14.2	X	14.62700	288.56639	39.86383	5.22688	0.0983557	0.22226655	2.6991062	21	10 5.3	17.3
40762 1999 TL_{14}	15.2	X	146.54579	271.57564	67.31977	4.92084	0.2597485	0.24061558	2.5600801	21	1 9.5	19.1
40763 Zloch	14.9	X	24.76834	189.32952	206.42755	2.06680	0.1508473	0.18585056	3.0410727	21	—	—
40764 Gerhardiser	15.0	X	47.71490	121.35868	224.24169	1.72368	0.1248024	0.18281476	3.0746467	21	12 8.5	19.2
40765 1999 TF_{16}	14.3	X	77.50228	94.68754	143.19183	3.52068	0.0269050	0.21872753	2.7281427	21	8 22.3	18.0
40766 1999 TB_{17}	13.3	X	270.16612	359.61366	67.98081	3.02599	0.1845027	0.17183503	3.2042637	21	8 18.3	17.8
40767 1999 TC_{17}	14.2	X	175.33534	300.34694	56.88379	2.52687	0.0233857	0.19962068	2.8995618	21	2 15.9	18.2
40768 1999 TZ_{17}	14.4	X	201.78128	27.02000	205.21328	11.77727	0.0570767	0.23375490	2.6099302	21	—	—
40769 1999 TJ_{18}	13.3	X	10.34021	206.62134	224.14414	10.80542	0.0452010	0.18541923	3.0457871	21	—	—
40770 1999 TV_{18}	14.1	X	339.43458	242.51907	214.51248	9.61364	0.1432167	0.18617020	3.0375908	21	—	—
40771 1999 TP_{19}	15.2	X	148.45112	279.40608	22.52999	7.58803	0.1826870	0.23744218	2.5828398	21	—	—
40772 1999 TY_{19}	14.7	X	52.58652	83.79355	6.16644	1.99249	0.0581315	0.19583045	2.9368554	21	1 11.2	18.5
40773 1999 TZ_{19}	15.8	X	313.28265	188.66657	125.86716	3.14025	0.1842976	0.26000945	2.4311399	21	5 16.5	18.4
40774 Iwaigame	14.8	X	91.39020	236.85224	124.16411	4.55722	0.2519271	0.23533427	2.5982400	21	—	—
40775 Kalafina	14.7	X	346.87873	109.07002	210.08059	1.19541	0.0625440	0.21841905	2.7307108	21	8 3.7	18.1
40776 Yeungkwongyu	14.2	X	62.46193	95.50679	344.66783	3.27980	0.0767927	0.19528953	2.9422760	21	1 14.5	18.0
40777 1999 TM_{25}	15.1	X	98.19442	94.25117	224.86490	3.44061	0.2137503	0.23350442	2.6117964	21	—	—
40778 1999 TV_{25}	15.0	X	147.79544	154.70634	218.87916	1.32536	0.0261946	0.19829899	2.9124315	21	2 2.3	19.1
40779 1999 TY_{25}	13.9	X	27.92695	324.96287	24.43930	16.56928	0.0876808	0.18062465	3.0994505	21	11 7.9	18.1
40780 1999 TB_{26}	14.5	X	299.12505	325.58761	14.56747	5.31888	0.1658535	0.21486588	2.7607330	21	6 3.8	18.2
40781 1999 TN_{26}	15.1	X	140.94315	295.01827	9.96535	5.36593	0.2660349	0.23796399	2.5790626	21	—	—
40782 1999 TX_{26}	14.8	X	189.78210	47.49093	322.83850	1.17542	0.0818988	0.20305658	2.8667600	21	3 20.6	19.1
40783 1999 TT_{28}	15.0	X	109.78840	141.52835	268.12515	0.67672	0.0790474	0.19973558	2.8984497	21	2 7.8	18.9
40784 1999 TV_{28}	15.1	X	265.57951	168.20794	210.18769	1.47403	0.0923902	0.21592508	2.7516973	21	6 22.4	18.9
40785 1999 TA_{29}	14.4	X	137.81828	261.51360	205.87249	4.07097	0.0317644	0.21083779	2.7957849	21	5 19.7	18.2
40786 1999 TR_{30}	14.4	X	189.18839	77.35590	300.89479	0.87332	0.0186175	0.20580623	2.8411688	21	3 27.8	18.2
40787 1999 TV_{30}	14.1	X	82.30400	59.00341	197.72003	12.61758	0.1387631	0.22389805	2.6859783	21	10 8.2	17.9
40788 1999 TK_{31}	14.2	X	323.46327	36.84249	7.04344	5.06045	0.1581625	0.17857226	3.1231539	21	10 10.5	17.8
40789 1999 TW_{31}	15.0	X	189.10160	137.71572	226.71503	1.19193	0.0795655	0.20360753	2.8615862	21	3 12.5	19.3
40790 1999 TP_{32}	15.7	X	189.08313	69.56188	220.35197	2.35883	0.1029004	0.24177733	2.5518726	21	—	—
40791 1999 TO_{33}	14.9	X	45.57820	347.67221	306.84624	1.81510	0.0522304	0.22254352	2.6968663	21	9 26.8	18.3
40792 1999 TY_{33}	15.3	X	129.79398	45.38487	318.69631	1.02601	0.1208254	0.19655257	2.9296578	21	1 13.8	19.5
40793 1999 TZ_{33}	14.9	X	130.84339	175.12660	217.40066	2.44118	0.1297151	0.19956355	2.9001151	21	2 17.7	19.1
40794 1999 TD_{36}	14.2	X	55.06786	330.77061	24.44067	9.79642	0.0716503	0.23208650	2.6224233	21	—	—
40795 1999 TF_{36}	14.6	X	318.10736	236.44667	116.60143	7.45938	0.1257652	0.26566170	2.3965330	21	8 1.9	17.0
40796 1999 TT_{36}	14.6	X	342.34818	280.07074	94.25429	15.89789	0.1250068	0.22183990	2.7025658	21	10 23.1	17.9
40797 1999 TM_{37}	13.9	X	90.06207	114.56743	162.03566	11.44034	0.0861980	0.22443453	2.6816963	21	11 8.3	17.9
40798 1999 TV_{37}	14.6	X	115.58741	183.84432	310.81758	8.11481	0.0782212	0.21264355	2.7799345	21	6 1.0	18.6
40799 1999 TW_{37}	15.4	X	267.31035	344.06596	250.29134	5.44963	0.0736585	0.24553739	2.5257535	21	—	—
40800 1999 TD_{38}	15.6	X	312.87431	264.78735	38.19866	2.93200	0.1992088	0.25996841	2.4313958	21	4 25.3	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40801 1999 TN_{38}	14.7	X	346.05353	80.31075	1.39280	1.73324	0.0403192	0.18789214	3.0190037	21	—	—
40802 1999 TL_{39}	15.5	X	351.83261	199.94992	135.04086	6.30881	0.2752110	0.26696466	2.3887289	21	9 24.3	16.6
40803 1999 TX_{39}	14.1	X	138.40081	178.45096	74.09715	13.10053	0.1505969	0.22789067	2.6545140	21	11 29.4	18.4
40804 1999 TQ_{40}	13.9	X	273.74321	12.40107	177.41525	19.16792	0.1476760	0.23824147	2.5770597	21	—	—
40805 1999 TW_{41}	16.0	X	245.85638	12.72409	219.66526	2.79504	0.0268604	0.24196938	2.5505222	21	—	—
40806 1999 TX_{41}	16.2	X	89.04743	356.08676	250.41859	1.64058	0.1631976	0.27131318	2.3631364	21	10 10.1	19.6
40807 1999 TQ_{48}	14.7	X	206.89370	222.42858	36.49848	3.97262	0.1125773	0.23984918	2.5655308	21	—	—
40808 1999 TB_{53}	15.0	X	201.21226	179.53302	245.34994	3.49556	0.0408235	0.21196518	2.7858626	21	6 10.7	18.9
40809 1999 TZ_{57}	14.7	X	92.80621	92.62950	214.60112	15.74030	0.0952592	0.18231422	3.0802716	21	12 9.6	19.5
40810 1999 TK_{63}	15.2	X	328.30874	350.05384	184.88834	3.04023	0.0309192	0.19361868	2.9591788	21	1 5.0	19.4
40811 1999 TL_{63}	14.4	X	240.77680	20.37637	201.47023	5.01710	0.1218389	0.18858772	3.0115757	21	—	—
40812 1999 TV_{63}	14.8	X	108.64821	123.20551	183.36627	3.31759	0.1040864	0.18401228	3.0612926	21	12 25.9	19.5
40813 1999 TJ_{66}	14.5	X	293.33267	83.86113	14.50776	11.21774	0.0538468	0.18176328	3.0864930	21	11 10.7	18.8
40814 1999 TY_{69}	15.1	X	286.85107	253.81210	4.51887	1.82957	0.0281687	0.20175415	2.8790844	21	2 24.8	19.2
40815 1999 TY_{77}	15.3	X	171.46028	8.70140	335.03394	2.93094	0.2096729	0.29381636	2.2408807	21	1 25.5	18.7
40816 1999 TX_{78}	14.8	X	337.25917	261.38049	127.42186	1.31616	0.1076619	0.17972966	3.1097314	21	10 17.9	18.5
40817 1999 TT_{79}	14.8	X	216.40699	142.64212	186.92594	12.02076	0.0148614	0.20316954	2.8656973	21	2 26.6	18.9
40818 1999 TR_{80}	16.0	X	341.14930	146.52205	159.09438	2.63039	0.2223771	0.26375016	2.4080984	21	6 21.9	17.7
40819 1999 TT_{80}	14.8	X	302.51825	113.71389	144.06106	2.71137	0.0241511	0.20505297	2.8481226	21	3 16.0	18.8
40820 1999 TY_{89}	14.9	X	98.11428	4.30894	36.66555	2.31984	0.1012742	0.19715081	2.9237282	21	1 17.6	18.7
40821 1999 TD_{90}	15.3	X	21.09727	3.34173	8.24641	5.27128	0.1038289	0.22968994	2.6406331	21	12 11.8	18.7
40822 1999 TM_{90}	15.1	X	37.57749	219.07988	128.08912	2.88989	0.0625713	0.22918453	2.6445139	21	11 27.9	18.5
40823 1999 TU_{90}	14.9	X	41.39550	311.85278	32.73159	11.95937	0.1982353	0.23007499	2.6376861	21	12 18.1	18.6
40824 1999 TV_{90}	14.4	X	246.46249	133.88058	48.03119	9.18126	0.0191046	0.23451584	2.6042815	21	—	—
40825 1999 TZ_{90}	14.9	X	12.02451	126.53171	136.19035	7.27604	0.1047729	0.26170743	2.4206129	21	6 26.7	17.3
40826 1999 TP_{91}	14.9	X	161.98787	261.61127	46.71696	6.25130	0.1900547	0.24155217	2.5534582	21	—	—
40827 1999 TT_{92}	15.4	X	353.02384	167.44206	110.58848	4.09608	0.1680595	0.26185765	2.4196871	21	6 10.1	17.3
40828 1999 TM_{93}	14.6	X	358.82116	143.92456	168.08868	12.33825	0.0992721	0.21988196	2.7185854	21	8 12.4	17.9
40829 1999 TT_{93}	14.2	X	336.80207	296.64188	76.88553	3.57249	0.0865499	0.22372078	2.6873970	21	10 5.2	17.2
40830 1999 TV_{93}	15.1	X	318.74305	186.29744	125.90490	3.42166	0.1752573	0.26126249	2.4233604	21	5 23.8	17.7
40831 1999 TU_{94}	14.5	X	168.00913	82.09052	102.68966	6.99777	0.0154199	0.22409699	2.6843885	21	10 10.7	18.3
40832 1999 TH_{95}	14.7	X	35.03395	233.20719	83.36813	8.36257	0.2359087	0.22668352	2.6639297	21	11 12.1	18.0
40833 1999 TJ_{95}	13.8	X	288.68413	346.29355	138.89217	11.79150	0.1482281	0.18489354	3.0515575	21	12 2.7	17.8
40834 1999 TL_{95}	15.2	X	46.13437	248.69718	96.58986	6.88307	0.2004792	0.23019821	2.6367447	21	12 26.1	18.8
40835 1999 TM_{95}	14.8	X	82.61151	296.94398	64.76479	8.02067	0.1254509	0.23592106	2.5939300	21	—	—
40836 1999 TQ_{95}	14.2	X	52.90617	277.37964	127.80997	4.87304	0.1605207	0.19069107	2.9893893	21	—	—
40837 1999 TX_{95}	15.1	X	62.13919	200.26612	91.94130	3.23516	0.0612425	0.22495556	2.6775539	21	10 20.1	18.7
40838 1999 TY_{95}	15.2	X	334.88046	165.15284	152.18453	5.44442	0.1572936	0.21804449	2.7338371	21	7 4.7	18.2
40839 1999 TH_{96}	14.7	X	194.60366	332.06165	98.08417	4.78498	0.0782128	0.21200792	2.7854883	21	6 9.1	18.8
40840 1999 TS_{96}	13.5	X	325.51272	27.00953	54.60995	11.89761	0.1061160	0.18423812	3.0587904	21	12 5.2	17.2
40841 1999 TQ_{98}	13.8	X	266.05950	339.07509	52.99591	10.43930	0.1814443	0.21619893	2.7493732	21	6 28.5	17.8
40842 1999 TX_{98}	15.3	X	116.59173	180.47966	140.41580	6.34471	0.1921605	0.23627696	2.5913245	21	—	—
40843 1999 TD_{99}	15.4	X	64.32261	164.92117	114.89094	6.89758	0.2045870	0.27066941	2.3668819	21	11 3.9	18.7
40844 1999 TS_{101}	14.8	X	81.48708	194.43422	166.18461	12.88834	0.1716227	0.23475151	2.6025382	21	—	—
40845 1999 TL_{102}	15.1	X	263.68518	211.00268	150.59761	12.09892	0.2742339	0.25833255	2.4416494	21	5 9.1	19.2
40846 1999 TN_{102}	15.3	X	134.89666	233.64526	111.79625	15.13335	0.1040908	0.23909802	2.5709013	21	—	—
40847 1999 TU_{102}	13.5	X	53.83131	261.90590	154.69606	17.23140	0.2719773	0.18972990	2.9994770	21	—	—
40848 1999 TZ_{102}	14.6	X	349.46429	2.88310	52.68642	16.15650	0.0716429	0.22912472	2.6449740	21	12 17.8	18.0
40849 1999 TG_{103}	14.5	X	132.71138	197.82880	117.02191	15.22285	0.1237151	0.23474521	2.6025848	21	—	—
40850 1999 TR_{104}	14.3	X	303.69815	250.23036	218.87393	10.49268	0.0711948	0.18472591	3.0534033	21	12 10.3	18.4
40851 1999 TZ_{104}	14.6	X	157.59722	56.42315	225.73090	8.30699	0.1256661	0.23573368	2.5953043	21	—	—
40852 1999 TX_{105}	14.4	X	199.99132	198.27623	192.31616	8.47525	0.2159650	0.20597484	2.8396181	21	4 25.4	19.4
40853 1999 TA_{106}	14.2	X	218.06154	182.75541	213.47180	25.29385	0.1249693	0.21535866	2.7565200	21	5 19.7	18.6
40854 1999 TU_{107}	14.1	X	66.51907	138.65064	235.03483	12.54478	0.1730735	0.23638380	2.5905436	21	—	—
40855 1999 TG_{108}	13.4	X	315.48597	178.53609	245.18129	9.76705	0.0958077	0.18218348	3.0817451	21	10 27.2	17.3
40856 1999 TP_{108}	15.5	X	18.43773	12.61628	268.58884	3.47555	0.1866066	0.26653846	2.3912746	21	8 15.7	17.4
40857 1999 TP_{110}	14.7	X	153.97915	169.83314	318.50470	5.38092	0.0663293	0.21527512	2.7572331	21	7 8.9	18.7
40858 1999 TR_{110}	14.9	X	258.29703	41.22494	299.49305	4.24651	0.0439542	0.21099302	2.7944134	21	4 29.6	18.8
40859 1999 TX_{111}	14.9	X	359.59517	52.89407	244.86077	1.88911	0.0276951	0.21839966	2.7308724	21	7 24.4	18.5
40860 1999 TQ_{113}	15.0	X	4.29394	350.72309	271.47090	3.27000	0.0477790	0.21430144	2.7655785	21	6 12.7	18.5
40861 1999 TR_{113}	15.0	X	338.42845	8.24013	337.04709	5.32940	0.0556259	0.22083289	2.7107754	21	8 27.9	18.2
40862 1999 TB_{114}	14.3	X	241.80636	221.65680	192.96069	6.25389	0.1431306	0.17032333	3.2231953	21	7 4.6	19.4
40863 1999 TL_{115}	15.6	X	13.35859	151.26572	214.53909	8.58742	0.0883109	0.22779957	2.6552217	21	11 21.7	18.9
40864 1999 TO_{115}	14.1	X	314.93963	83.45122	348.94931	9.52732	0.0776268	0.18230116	3.0804188	21	11 5.8	18.2
40865 1999 TH_{116}	15.1	X	353.07384	32.06165	313.81136	1.19804	0.0891472	0.22289018	2.6940693	21	9 21.1	18.3
40866 1999 TU_{117}	14.7	X	131.52904	7.34349	224.26115	8.11191	0.0872451	0.22626703	2.6671976	21	10 25.0	18.6
40867 1999 TD_{118}	14.6	X	135.67181	347.18907	338.66353	5.46902	0.2326705	0.23984641	2.5655505	21	—	—
40868 1999 TM_{118}	14.9	X	137.04019	15.26265	316.88041	2.92650	0.2570834	0.24067198	2.5596801	21	—	—
40869 1999 TN_{118}	14.6	X	62.17200	59.09305	209.76285	8.74943	0.0914193	0.22234389	2.6984803	21	9 19.9	18.3
40870 1999 TQ_{119}	14.8	X	13.91659	318.65600	6.53657	13.85122	0.1231229	0.22330289	2.6907488	21	9 30.7	17.9
40871 1999 TS_{120}	14.5	X	191.64559	280.17727	335.60220	3.09418	0.0772072	0.23656517	2.5892193	21	—	—
40872 1999 TB_{121}	14.2	X	227.29970	321.60403	166.69615	1.38476	0.1073980	0.17719869	3.1392727	21	9 22.9	19.0
40873 1999 TL_{121}	14.9	X	34.55178	172.01307	124.66794	2.90967	0.0564224	0.22168969	2.7037864	21	9 16.7	18.2
40874 1999 TL_{122}	15.5	X	336.92138	187.31766	127.68263	3.19672	0.2011326	0.26372048	2.4082791	21	6 30.3	17.3
40875 1999 TA_{123}	14.8	X	154.76610	347.47843	345.50348	2.72880	0.2264609	0.24230361	2.5481762	21	1 6.4	18.6
40876 1999 TH_{123}	15.3	X	231.45998	205.96786	159.39804	4.68193	0.1159200	0.20937097	2.8088275	21	4 26.8	19.6
40877 1999 TF_{124}	15.2	X	260.39708	7.14037	16.98487	1.65118	0.0294998	0.21474344	2.7617823	21	7 2.9	19.0
40878 1999 TU_{124}	15.5	X	47.48627	124.37652	191.80181	7.68303	0.0691116	0.22678605	2.6631267	21	11 2.2	18.9
40879 1999 TX_{124}	15.1	X	304.89913	101.62464	190.36087	5.79551	0.1253509	0.25692084	2.4505853	21	4 11.0	18.1
40880 1999 TA_{125}	15.3	X	199.49990	119.76447	288.36285	2.43171	0.0778988	0.21063208	2.7976048	21	5 16.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40881 1999 TY_{125}	15.4	X	194.81870	299.91708	342.95416	5.70004	0.1786993	0.24224395	2.5485946	21	—	—
40882 1999 TZ_{125}	14.4	X	291.59504	356.01791	207.34803	12.81316	0.0913239	0.19682106	2.9269929	21	—	—
40883 1999 TB_{126}	15.0	X	15.76988	276.93465	9.23259	4.07944	0.0878661	0.21870324	2.7283447	21	8 7.3	18.1
40884 1999 TC_{126}	15.8	X	199.78880	332.40458	323.28797	0.35982	0.1527565	0.24399911	2.5363580	21	—	—
40885 1999 TS_{126}	14.5	X	250.95361	231.28350	208.42865	11.04937	0.0832057	0.17330423	3.1861284	21	8 19.5	19.3
40886 1999 TE_{127}	15.5	X	138.98583	309.50499	343.59853	3.01958	0.2377047	0.23671026	2.5881612	21	—	—
40887 1999 TG_{128}	14.8	X	45.92444	38.50366	56.44936	2.66154	0.0630833	0.19592175	2.9359429	21	1 8.1	18.4
40888 1999 TW_{131}	15.3	X	138.01311	90.48673	303.12826	0.92723	0.0763955	0.20138223	2.8826281	21	2 21.1	19.4
40889 1999 TY_{132}	15.5	X	190.65185	322.75174	219.31943	1.78416	0.0100822	0.22670819	2.6637364	21	11 1.7	19.2
40890 1999 TE_{133}	14.3	X	236.98299	178.73515	338.58910	1.32093	0.1301123	0.18346731	3.0673518	21	11 4.9	18.7
40891 1999 TH_{136}	15.4	X	34.74560	22.00365	343.55695	2.53671	0.0881221	0.22961974	2.6411713	21	12 21.0	18.9
40892 1999 TY_{136}	14.9	X	237.27443	266.23892	193.44034	4.72698	0.1031148	0.17470742	3.1690455	21	8 28.6	19.6
40893 1999 TL_{138}	14.9	X	19.49002	10.79737	240.24180	2.39718	0.0381577	0.21292921	2.7774477	21	6 19.9	18.4
40894 1999 TQ_{138}	16.1	X	171.46525	294.42022	10.27938	4.26534	0.1905651	0.24102403	2.5571870	21	—	—
40895 1999 TZ_{140}	15.3	X	276.96644	80.01978	278.75164	1.21351	0.0578238	0.21244505	2.7816660	21	6 16.4	18.9
40896 1999 TO_{141}	15.7	X	335.30361	322.74325	12.42743	2.10610	0.0853325	0.21782477	2.7356753	21	8 7.7	18.8
40897 1999 TG_{142}	15.2	X	221.64856	154.25950	259.64120	2.33692	0.0702275	0.21442894	2.7644821	21	6 18.7	19.1
40898 1999 TP_{142}	14.8	X	286.50305	301.36174	109.25348	3.21460	0.0047631	0.22338200	2.6901135	21	9 17.5	18.3
40899 1999 TR_{142}	15.4	X	356.78510	116.00707	264.52174	2.13424	0.1202691	0.22787304	2.6546509	21	11 17.8	18.3
40900 1999 TV_{142}	15.1	X	38.47881	183.22577	196.05866	1.48604	0.0583405	0.18674855	3.0313160	21	12 29.1	19.3
40901 1999 TG_{143}	14.3	X	138.11520	180.60864	326.77808	8.19657	0.0224920	0.21687367	2.7436676	21	7 12.1	18.1
40902 1999 TY_{143}	15.2	X	26.97044	126.33787	201.95687	17.98819	0.0390664	0.22531017	2.6747438	21	10 15.3	18.5
40903 1999 TB_{144}	14.1	X	113.79208	317.20159	215.54194	8.84432	0.0784158	0.21601496	2.7509340	21	7 17.9	18.2
40904 1999 TC_{144}	15.7	X	83.26905	338.14802	47.66388	5.36106	0.1227656	0.23941035	2.5686648	21	—	—
40905 1999 TE_{148}	14.3	X	335.94983	237.19397	200.91087	10.54407	0.0965558	0.18551748	3.0447116	21	12 18.3	18.2
40906 1999 TN_{148}	14.5	X	53.28502	319.24073	205.84044	14.77953	0.0820358	0.20641615	2.8355693	21	4 18.9	17.9
40907 1999 TF_{149}	14.9	X	50.99411	335.57767	120.27881	2.17896	0.0373555	0.19756436	2.9196468	21	1 14.5	18.8
40908 1999 TW_{151}	14.1	X	259.89358	60.40235	190.92473	14.72683	0.1225590	0.24380531	2.5377020	21	—	—
40909 1999 TR_{152}	14.7	X	265.67717	53.52956	189.71548	12.35395	0.1578078	0.24328021	2.5413522	21	—	—
40910 1999 TS_{152}	15.5	X	7.36998	228.43970	96.39127	3.47913	0.2282954	0.26790388	2.3831427	21	10 12.4	17.4
40911 1999 TU_{152}	15.1	X	134.64868	188.34881	107.12476	4.54491	0.1367513	0.23409089	2.6074323	21	—	—
40912 1999 TX_{152}	13.9	X	191.90822	281.43322	205.72601	14.29479	0.0687647	0.17060618	3.2196318	21	8 12.6	19.1
40913 1999 TZ_{152}	15.4	X	216.82547	125.57844	187.65628	2.72707	0.1538321	0.24659889	2.5185001	21	1 31.7	19.4
40914 1999 TH_{155}	14.9	X	325.47694	148.63282	182.54615	13.12930	0.1616321	0.21720420	2.7408835	21	7 5.4	18.2
40915 1999 TT_{155}	14.5	X	335.74031	151.77524	176.20786	5.13652	0.0548320	0.21607765	2.7504019	21	7 29.0	17.9
40916 1999 TE_{156}	13.9	X	136.40621	114.16860	200.93969	9.53961	0.0898730	0.18885611	3.0087217	21	—	—
40917 Pauljorden	14.3	X	230.97665	205.17505	273.15746	3.95151	0.1087947	0.17797079	3.1301866	21	9 12.4	19.1
40918 1999 TG_{158}	14.4	X	240.61307	333.96430	220.74398	9.10086	0.0534118	0.18748889	3.0233310	21	—	—
40919 Johntonry	15.1	X	188.28043	155.43466	136.99318	4.57066	0.1928025	0.24146637	2.5540630	21	—	—
40920 1999 TD_{171}	14.4	X	220.94832	274.67183	57.06872	2.83683	0.0701983	0.20292458	2.8680031	21	3 8.2	18.6
40921 1999 TR_{171}	14.6	X	228.65441	242.25642	81.56261	3.18030	0.0613909	0.20279738	2.8692022	21	3 7.5	18.8
40922 1999 TH_{172}	14.7	X	341.05709	263.56974	62.87909	6.11481	0.0579318	0.21645755	2.7471828	21	8 7.6	18.1
40923 1999 TB_{173}	14.0	X	48.22786	240.73631	191.46016	10.22796	0.0866718	0.19149455	2.9810215	21	—	—
40924 1999 TB_{174}	14.1	X	335.60137	313.55150	205.79609	10.09773	0.0424313	0.19311183	2.9643544	21	—	—
40925 1999 TL_{174}	15.4	X	196.67186	159.72781	150.50899	4.24745	0.2034875	0.24353743	2.5395625	21	1 12.8	19.7
40926 1999 TQ_{177}	15.1	X	246.97950	166.40394	197.02168	5.81534	0.0870884	0.20892667	2.8128083	21	5 13.2	19.2
40927 1999 TZ_{185}	14.7	X	79.20828	349.26671	291.71605	10.99772	0.1721066	0.22673651	2.6635146	21	11 5.3	18.8
40928 1999 TB_{187}	14.2	X	83.92737	17.85975	328.14758	13.15598	0.1428274	0.18811799	3.0165868	21	—	—
40929 1999 TB_{188}	14.4	X	20.78841	244.03385	267.26338	11.57103	0.0224445	0.19953145	2.9004262	21	2 7.4	18.5
40930 1999 TJ_{189}	14.0	X	122.14751	334.58991	315.43410	9.05225	0.0351247	0.18479340	3.0526598	21	12 16.5	18.5
40931 1999 TX_{189}	15.1	X	178.00557	337.17662	308.18023	8.37566	0.1860087	0.23865300	2.5740963	21	—	—
40932 1999 TF_{191}	13.9	X	258.26490	221.43207	301.77427	8.72981	0.0404103	0.18498925	3.0505048	21	12 20.4	18.2
40933 1999 TP_{192}	13.7	X	347.19602	168.80827	271.49863	8.24143	0.0347689	0.18543828	3.0455784	21	—	—
40934 1999 TJ_{194}	13.9	X	337.32021	339.76775	315.40556	8.14460	0.1287182	0.21296096	2.7771716	21	6 9.7	17.2
40935 1999 TO_{195}	14.5	X	267.33824	71.67333	359.22712	4.39739	0.0953598	0.17173076	3.2055606	21	8 31.4	19.0
40936 1999 TP_{200}	15.4	X	339.32524	176.70257	193.01394	7.32247	0.1244834	0.27246963	2.3564450	21	10 11.2	17.5
40937 1999 TQ_{200}	15.8	X	32.09895	65.87073	261.83307	3.21152	0.1826640	0.27491630	2.3424431	21	11 21.1	18.5
40938 1999 TO_{205}	14.6	X	329.15594	332.70382	347.45559	3.39917	0.0932029	0.21305987	2.7763121	21	7 5.9	17.8
40939 1999 TU_{209}	14.4	X	239.15798	116.53242	59.41934	11.59495	0.0700930	0.18429601	3.0581499	21	12 7.3	18.7
40940 1999 TZ_{209}	13.2	X	346.37256	62.16464	10.81866	10.96693	0.0308382	0.18249471	3.0782404	21	12 23.7	17.5
40941 1999 TS_{211}	15.0	X	39.03453	353.42445	288.68570	4.89399	0.1099490	0.21999106	2.7176866	21	9 7.0	18.4
40942 1999 TZ_{212}	15.2	X	303.69733	357.97872	345.82763	4.55474	0.0204236	0.21541752	2.7560179	21	7 9.4	18.8
40943 1999 TT_{213}	15.1	X	31.40952	65.72310	39.71107	2.57013	0.0558157	0.19568703	2.9382902	21	—	—
40944 1999 TJ_{216}	14.7	X	258.01514	218.94261	95.85262	3.28005	0.0646878	0.20575445	2.8416454	21	3 28.8	18.7
40945 1999 TX_{216}	14.8	X	83.88710	258.67973	2.65659	3.31105	0.1828878	0.22296928	2.6934321	21	10 20.4	18.9
40946 1999 TK_{217}	15.5	X	121.31442	308.05379	9.70270	4.30821	0.0906122	0.23598643	2.5934509	21	—	—
40947 1999 TJ_{218}	14.8	X	166.81733	173.69256	350.28073	5.81875	0.0333601	0.22106686	2.7088624	21	9 8.1	18.5
40948 1999 TH_{228}	15.0	X	130.65889	335.32316	33.24901	2.40580	0.0854236	0.19798211	2.9155383	21	1 15.7	19.2
40949 1999 TQ_{228}	15.1	X	241.39529	305.17384	48.43859	3.82641	0.1122133	0.20861327	2.8156247	21	4 21.8	19.3
40950 1999 TQ_{229}	14.4	X	228.37002	35.11813	47.35392	6.54208	0.0903734	0.17143885	3.2091983	21	8 1.9	19.3
40951 1999 TO_{230}	14.7	X	50.77730	259.48410	138.39446	10.28500	0.1046205	0.19056031	2.9907567	21	—	—
40952 1999 TD_{231}	15.2	X	331.30052	224.40729	104.10654	6.40497	0.0779214	0.21850569	2.7299889	21	7 22.8	18.5
40953 1999 TB_{237}	15.1	X	235.01630	198.37273	82.83075	8.07195	0.1120149	0.24358931	2.5392019	21	1 12.1	19.0
40954 1999 TQ_{238}	14.6	X	269.80251	159.43654	131.37508	5.86851	0.0785320	0.20476857	2.8507590	21	3 11.0	18.7
40955 1999 TQ_{241}	14.6	X	262.05441	180.33161	160.28523	8.85707	0.2276082	0.21075050	2.7965568	21	4 17.5	19.1
40956 1999 TZ_{241}	14.9	X	164.03060	207.64059	93.72829	11.91201	0.1230158	0.23747172	2.5826256	21	—	—
40957 1999 TR_{242}	14.0	X	270.81391	74.03180	111.05883	11.22461	0.0456185	0.18824431	3.0152372	21	—	—
40958 1999 TV_{242}	14.8	X	93.84931	195.98628	143.32758	7.42198	0.1676840	0.23312409	2.6146363	21	—	—
40959 1999 TB_{243}	13.1	X	50.54787	99.37334	203.99036	24.91033	0.0650525	0.17572400	3.1568116	21	10 11.2	17.5
40960 1999 TL_{244}	14.9	X	137.25791	54.76252	3.68843	1.73286	0.0393289	0.20464300	2.8519251	21	3 18.2	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
40961 1999 TV_{247}	14.8	X	288.88952	243.00557	128.96586	4.11089	0.0998423	0.21495918	2.7599341	21	7 14.0	18.5
40962 1999 TW_{247}	14.1	X	312.25878	220.54763	178.37825	6.45995	0.1449372	0.17436303	3.1732171	21	9 15.3	17.8
40963 1999 TZ_{247}	14.0	X	47.28041	93.90258	163.48379	5.31431	0.0538986	0.16899315	3.2400868	21	8 7.4	18.4
40964 1999 TE_{248}	14.0	X	219.98823	257.51534	199.23025	12.82014	0.0937052	0.16830260	3.2489435	21	8 4.5	19.1
40965 1999 TH_{249}	15.0	X	100.90899	339.64790	331.23999	9.85542	0.0828192	0.23315102	2.6144349	21	12 31.8	19.0
40966 1999 TM_{250}	14.9	X	136.51398	44.37791	230.11985	8.66841	0.1389072	0.23362522	2.6108959	21	12 23.4	19.1
40967 1999 TC_{251}	13.4	X	15.09700	36.14937	347.60563	12.03441	0.1546166	0.18179831	3.0860964	21	12 14.0	17.4
40968 1999 TO_{254}	14.5	X	14.54962	179.12489	113.78297	14.50062	0.1364172	0.21879978	2.7275421	21	8 20.3	17.6
40969 1999 TR_{258}	15.2	X	148.32484	296.08605	9.08356	3.20612	0.0928566	0.23794686	2.5791864	21	—	—
40970 1999 TK_{261}	14.2	X	199.49832	208.22508	63.13386	28.93712	0.0828545	0.23852195	2.5750390	21	—	—
40971 1999 TY_{264}	14.7	X	59.52766	137.46559	236.38925	21.06411	0.0337159	0.23658889	2.5890463	21	—	—
40972 1999 TL_{267}	13.9	X	260.63016	246.31107	228.62022	16.67278	0.1995340	0.17931916	3.1144755	21	9 27.7	18.6
40973 1999 TL_{269}	14.7	X	92.53438	44.76390	319.92438	8.99108	0.1056995	0.19164097	2.9795029	21	—	—
40974 1999 TS_{269}	14.4	X	172.01556	228.90716	290.02181	7.07872	0.0802540	0.17421518	3.1750121	21	8 31.8	19.4
40975 1999 TU_{269}	14.0	X	226.06699	191.28717	295.08543	7.80226	0.1284781	0.17619597	3.1511718	21	9 13.1	18.9
40976 1999 TV_{272}	13.6	X	179.13050	279.69357	246.46120	8.49553	0.1717000	0.17484987	3.1673241	21	9 14.0	18.9
40977 1999 TD_{279}	14.5	X	54.78503	36.26786	4.90798	10.37560	0.1199189	0.19197633	2.9760320	21	—	—
40978 1999 TN_{279}	15.1	X	317.33820	280.28797	185.16395	21.53341	0.0835968	0.23279985	2.6170635	21	—	—
40979 1999 TL_{280}	14.8	X	340.46062	170.88553	191.51207	8.70403	0.0937599	0.22624853	2.6673430	21	9 23.2	17.7
40980 1999 TO_{282}	15.2	X	42.13512	89.58136	44.50071	2.40404	0.0569439	0.20017576	2.8941991	21	2 20.8	18.9
40981 Stephenholland	14.9	X	298.98210	131.63484	187.28500	11.25990	0.1633394	0.21148875	2.7900450	21	5 9.5	18.7
40982 1999 TR_{285}	14.3	X	248.44073	118.48842	356.13007	11.30064	0.0450003	0.17866962	3.1220192	21	10 6.1	18.7
40983 1999 TB_{286}	14.9	X	291.24829	237.31169	231.59256	13.54397	0.0463663	0.23174423	2.6250047	21	12 4.8	18.2
40984 1999 TL_{288}	14.3	X	155.86404	205.12228	51.83176	10.65570	0.0545738	0.18463621	3.0543922	21	12 13.4	18.9
40985 1999 TM_{288}	14.1	X	161.61762	35.96139	140.06049	2.32325	0.1168679	0.17347833	3.1839963	21	9 14.7	19.0
40986 1999 TY_{292}	14.5	X	179.67340	299.69750	2.53355	8.55144	0.0747557	0.19340993	2.9613077	21	—	—
40987 1999 TJ_{293}	14.3	X	187.51419	227.20146	359.76818	9.20703	0.0487223	0.18397848	3.0616676	21	12 12.0	18.9
40988 1999 TN_{311}	14.7	X	320.32925	51.28322	40.72009	1.19443	0.1445882	0.18558178	3.0440082	21	12 10.2	18.2
40989 1999 UO	14.7	X	18.51642	176.39753	205.44601	10.66152	0.1073642	0.18349455	3.0670482	21	12 12.0	18.8
40990 1999 UW	14.9	X	261.23368	216.12811	173.63395	1.99440	0.0927529	0.21517292	2.7581061	21	7 1.9	18.8
40991 1999 UA_{1}	15.1	X	301.53913	298.97432	34.01855	7.52988	0.2496253	0.26057176	2.4276411	21	5 11.5	18.1
40992 1999 UL_{1}	14.2	X	346.42250	30.06598	32.30069	1.88107	0.2240178	0.18262323	3.0767960	21	12 22.2	17.1
40993 1999 UF_{2}	14.4	X	315.36177	245.84659	139.76897	2.80094	0.1077431	0.22062483	2.7124794	21	9 13.1	17.3
40994 Tekaridake	13.9	X	4.15831	118.62193	221.89776	11.62282	0.2019248	0.22371061	2.6874785	21	10 11.9	16.6
40995 1999 UC_{4}	15.3	X	243.42992	286.92852	33.80102	8.35965	0.1540637	0.25216044	2.4813312	21	3 9.7	19.2
40996 1999 UO_{5}	14.4	X	53.62572	356.37767	337.39847	14.88966	0.1059697	0.22998112	2.6384038	21	12 5.3	18.3
40997 1999 UE_{6}	15.1	X	338.87774	88.73379	260.43897	1.88389	0.1170572	0.22183924	2.7025711	21	8 31.2	18.1
40998 1999 US_{7}	13.7	X	292.93643	311.53953	54.90883	7.43060	0.1315453	0.21540299	2.7561418	21	7 8.1	17.3
40999 1999 UU_{8}	13.7	X	325.40020	97.49394	241.83523	4.29445	0.1117323	0.21594544	2.7515243	21	7 23.3	17.0
41000 1999 UB_{9}	14.6	X	134.53349	82.28293	55.42340	5.21490	0.0119176	0.21032857	2.8002956	21	6 21.9	18.5
41001 1999 UG_{9}	14.1	X	238.19814	250.49441	224.33815	8.63168	0.0395722	0.17452883	3.1712071	21	9 23.9	18.7
41002 1999 UW_{12}	14.6	X	337.32302	146.73520	271.90962	3.07631	0.1538509	0.18291521	3.0735208	21	11 25.7	18.0
41003 1999 UZ_{12}	15.6	X	262.67530	7.75776	315.84214	2.23252	0.1781301	0.25564767	2.4587148	21	3 25.2	19.4
41004 1999 UA_{13}	14.9	X	276.62390	113.19945	264.25797	2.50614	0.0940529	0.21702307	2.7424083	21	7 5.4	18.4
41005 1999 UJ_{13}	15.0	X	0.99589	80.17274	218.32691	5.74408	0.2177592	0.26570235	2.3962886	21	8 3.2	16.8
41006 1999 UM_{13}	15.4	X	192.84139	9.63875	298.97268	1.69938	0.1347940	0.24457001	2.5324094	21	1 4.6	19.4
41007 1999 UN_{14}	15.3	X	131.48648	231.46815	99.09048	4.15120	0.1806462	0.23797911	2.5789534	21	—	—
41008 1999 UR_{14}	15.0	X	278.27860	119.75273	57.10568	10.51795	0.0151824	0.18944573	3.0024757	21	—	—
41009 1999 UG_{15}	13.9	X	181.04188	333.46032	207.19578	17.81258	0.1447393	0.17699339	3.1416998	21	10 6.2	19.0
41010 1999 UN_{15}	14.5	X	6.65038	41.10909	184.24468	1.82574	0.0146533	0.20693064	2.8308673	21	4 28.5	18.1
41011 1999 UB_{16}	14.9	X	214.38539	200.45138	157.26813	2.34863	0.0754332	0.20479457	2.8505178	21	3 31.9	19.1
41012 1999 UD_{17}	14.0	X	344.40087	259.54790	107.50287	6.68242	0.1560411	0.17638343	3.1489386	21	10 3.6	17.6
41013 1999 UH_{22}	16.0	X	127.12706	239.97573	63.34128	1.53482	0.1336257	0.23382786	2.6093873	21	—	—
41014 1999 UP_{23}	13.7	X	161.83349	50.52371	346.70405	10.26674	0.1835814	0.20440737	2.8541164	21	3 28.6	18.4
41015 1999 UB_{24}	13.4	X	157.96352	329.86175	229.27793	14.86511	0.1184816	0.17807458	3.1289702	21	10 5.4	18.5
41016 1999 UR_{24}	14.3	X	63.76605	71.37870	254.89170	8.51923	0.1185528	0.18310408	3.0714070	21	12 3.4	18.5
41017 1999 UJ_{26}	14.7	X	348.44337	47.38590	244.07169	4.89442	0.0585565	0.21439064	2.7648113	21	6 28.4	18.1
41018 1999 UB_{27}	14.5	X	294.43355	64.35985	324.57692	5.60483	0.0763749	0.17214388	3.2004299	21	8 15.7	18.6
41019 1999 UV_{29}	15.3	X	131.36695	356.97815	46.69888	2.46981	0.0521294	0.20120188	2.8843505	21	2 23.9	19.4
41020 1999 UO_{30}	16.3	X	298.55723	206.28268	58.63559	2.78711	0.1827893	0.25284210	2.4768695	21	2 18.9	19.7
41021 1999 UL_{32}	14.3	X	153.06213	339.73523	53.56531	2.82209	0.0323375	0.20101751	2.8861139	21	3 6.8	18.5
41022 1999 UZ_{36}	15.9	X	104.43303	117.22795	191.05884	0.55780	0.1305528	0.23450629	2.6043522	21	—	—
41023 1999 UT_{38}	14.1	X	251.54606	89.05405	339.35490	4.29402	0.1263885	0.17083985	3.2166954	21	8 4.9	18.7
41024 1999 UW_{38}	14.4	X	291.58442	93.66777	267.22835	3.71482	0.1297098	0.21650183	2.7468082	21	6 28.1	17.8
41025 1999 UY_{38}	14.3	X	304.26108	133.23880	255.73849	4.32984	0.0700683	0.22056353	2.7129820	21	8 31.9	17.8
41026 1999 UC_{40}	14.3	X	30.20343	73.76897	314.60497	10.13355	0.0791962	0.18802197	3.0176137	21	—	—
41027 1999 UP_{44}	15.2	X	274.24815	191.06226	181.06077	11.01311	0.1374224	0.21468645	2.7622711	21	6 18.8	19.2
41028 1999 UL_{45}	14.7	X	166.67007	258.01617	18.74268	14.97485	0.1272765	0.23507852	2.6001241	21	—	—
41029 1999 UY_{45}	14.5	X	265.28677	237.30169	271.68544	9.43549	0.0660838	0.18375399	3.0641606	21	12 7.9	18.7
41030 1999 UQ_{46}	13.7	X	201.03022	90.28647	167.29181	14.56790	0.0623310	0.23683189	2.5872750	21	—	—
41031 1999 UA_{47}	13.7	X	303.14015	183.80859	302.77764	8.95633	0.0576045	0.18776606	3.0203550	21	—	—
41032 1999 UC_{48}	14.2	X	200.19954	138.97386	306.33360	4.76019	0.0264007	0.16822656	3.2499226	21	7 7.3	18.8
41033 1999 UW_{48}	14.5	X	116.89953	38.90960	242.40373	13.18298	0.0869136	0.23062428	2.6334962	21	12 10.9	18.5
41034 1999 UJ_{49}	14.6	X	7.80584	173.05332	244.17312	7.63330	0.0623084	0.18548196	3.0451003	21	—	—
41035 1999 UT_{50}	14.4	X	85.09612	81.81850	162.38462	5.61806	0.0810622	0.21861314	2.7290943	21	9 18.0	18.1
41036 1999 UH_{51}	13.9	X	177.10151	20.17148	135.44050	7.44073	0.0727033	0.17110395	3.2133844	21	9 6.4	18.7
41037 1999 US_{51}	15.3	X	129.78625	87.92864	207.46759	5.47508	0.1328522	0.23303517	2.6153013	21	—	—
41038 1999 UX_{52}	13.9	X	346.65591	340.81781	158.35967	11.39739	0.0417416	0.19089025	2.9873095	21	—	—
41039 1999 UX_{56}	15.0	X	298.10657	51.02199	50.11877	10.17706	0.1343981	0.18090820	3.0962110	21	11 14.8	18.7
41040 1999 VR	14.0	X	24.60081	325.41497	43.86769	1.75182	0.2120369	0.18087994	3.0965335	21	12 18.8	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41041 1999 VV_1	14.1	X	116.34767	112.05298	198.61497	13.63481	0.1073193	0.23245607	2.6196430	21	—	—
41042 1999 VB_2	12.9	X	177.89233	77.86517	87.62989	25.34958	0.2802866	0.17409037	3.1765294	21	9 27.3	19.0
41043 1999 VW_4	14.6	X	96.65266	306.93672	46.74452	4.17119	0.1691339	0.23521431	2.5991234	21	—	—
41044 1999 VW_6	13.4	X	130.73809	217.36860	153.59776	14.92502	0.1956185	0.24126947	2.5554524	21	1 23.4	17.1
41045 1999 VX_6	14.6	X	235.66828	239.02533	129.83401	16.27383	0.1513897	0.20897274	2.8123948	21	5 7.6	19.3
41046 1999 VZ_6	13.7	X	269.12654	264.57865	156.22172	18.21456	0.1488906	0.17094111	3.2154249	21	8 11.1	18.4
41047 1999 VP_7	14.8	X	154.62163	121.00758	218.60519	10.84684	0.2185639	0.24103677	2.5570969	21	1 10.9	18.9
41048 1999 VQ_7	14.7	X	234.92896	198.96045	122.79579	2.56623	0.1305551	0.20251003	2.8719157	21	3 7.1	19.1
41049 Van Citters	13.8	X	282.96143	274.77168	74.61830	14.51717	0.2528346	0.21546971	2.7555728	21	5 16.3	17.8
41050 1999 VF_9	13.4	X	13.80582	280.39219	50.14520	13.37969	0.1954939	0.22144199	2.7058024	21	10 21.3	16.3
41051 1999 VR_{10}	12.7	X	87.83960	311.66600	81.33055	11.40006	0.1135776	0.18977307	2.9990221	21	—	—
41052 1999 VJ_{16}	14.5	X	322.84415	123.34689	222.92037	11.76147	0.0778982	0.21761823	2.7374059	21	7 29.4	18.1
41053 1999 VH_{18}	14.5	X	207.78221	121.25802	23.96271	12.04347	0.1255995	0.17536229	3.1611510	21	9 24.5	19.4
41054 1999 VL_{18}	14.3	X	292.41827	111.49601	227.20207	7.36155	0.1619095	0.21380102	2.7698922	21	5 25.4	18.1
41055 1999 VD_{20}	14.7	X	117.32328	295.86593	42.66645	2.63581	0.0749621	0.18899081	3.0072920	21	—	—
41056 1999 VX_{20}	14.4	X	326.18235	83.32195	248.58759	7.71703	0.1569594	0.21685282	2.7438435	21	7 8.7	17.4
41057 1999 VU_{22}	14.5	X	16.02393	244.80365	178.76527	10.45971	0.0969703	0.18674948	3.0313060	21	—	—
41058 1999 VC_{24}	13.9	X	318.98972	136.51555	269.02658	4.48076	0.1356573	0.17642521	3.1484414	21	10 4.5	17.7
41059 1999 VC_{26}	14.3	X	332.65840	69.16742	312.68632	0.83793	0.1946605	0.17470148	3.1691174	21	9 25.2	17.5
41060 1999 VB_{28}	14.7	X	213.90435	5.93903	285.67519	0.78678	0.0899290	0.19508583	2.9443238	21	1 11.8	19.2
41061 1999 VD_{28}	14.5	X	14.95714	88.59954	238.89510	4.06479	0.0527338	0.21956867	2.7211708	21	9 25.9	17.9
41062 1999 VC_{29}	14.5	X	201.10236	128.12890	48.83664	1.66167	0.1223915	0.17697340	3.1419364	21	10 23.1	19.2
41063 1999 VE_{29}	14.9	X	282.33621	329.79624	48.93126	2.88643	0.2237473	0.21523736	2.7575556	21	6 24.8	18.8
41064 1999 VK_{29}	14.3	X	334.24350	315.96582	50.37430	2.55958	0.1885077	0.17390058	3.1788401	21	9 8.9	17.7
41065 1999 VR_{29}	14.6	X	192.21367	303.16478	48.95924	2.69139	0.0921434	0.19955956	2.9001538	21	3 3.4	19.0
41066 1999 VO_{31}	15.0	X	4.73003	101.29966	234.04559	12.15452	0.1909436	0.22138903	2.7062339	21	10 1.4	17.9
41067 1999 VG_{32}	14.1	X	293.09662	205.54331	232.54678	10.03251	0.1194886	0.17582956	3.1555480	21	10 7.5	18.3
41068 1999 VO_{32}	14.7	X	103.40187	56.74257	313.37824	1.02526	0.0691451	0.19000369	2.9965948	21	—	—
41069 1999 VJ_{33}	14.5	X	286.85117	227.71018	38.04832	2.50219	0.0786872	0.19938105	2.9018846	21	2 28.1	18.5
41070 1999 VS_{34}	13.7	X	329.50567	100.45452	250.75194	8.06230	0.1148650	0.16991600	3.2283444	21	8 10.9	17.9
41071 1999 VY_{36}	14.1	X	344.28425	74.00541	245.32827	9.91900	0.2628727	0.21584919	2.7523422	21	7 17.2	16.4
41072 1999 VX_{38}	14.7	X	197.72768	311.09903	55.58746	2.41950	0.0884526	0.20162314	2.8803314	21	3 26.1	19.2
41073 1999 VG_{39}	14.8	X	235.93328	97.99184	242.82573	4.02022	0.1047488	0.20347285	2.8628487	21	3 30.1	19.2
41074 1999 VL_{40}	14.2	X	75.91698	246.58711	265.39467	19.90796	0.3093338	0.28586561	2.2822407	21	6 6.7	16.7
41075 1999 VG_{43}	15.1	X	135.75956	80.77269	326.87408	1.09419	0.0806454	0.20185940	2.8780835	21	3 8.1	19.1
41076 1999 VH_{43}	14.5	X	292.16118	79.30316	354.57031	1.74621	0.2325559	0.17590064	3.1546979	21	9 16.7	18.4
41077 1999 VT_{43}	14.9	X	35.89411	257.08534	200.97442	10.74423	0.0461124	0.19509414	2.9442401	21	—	—
41078 1999 VB_{44}	14.4	X	42.59166	108.81990	226.89804	5.71231	0.0611512	0.18092370	3.0960341	21	11 10.7	18.7
41079 1999 VP_{45}	14.3	X	296.43454	348.32433	341.56583	3.89995	0.0721838	0.21220910	2.7837275	21	6 1.1	18.0
41080 1999 VX_{45}	13.3	X	115.10665	22.55164	227.31338	18.70779	0.0917884	0.17956229	3.1116635	21	10 24.2	18.0
41081 1999 VW_{47}	14.2	X	90.99843	19.08999	273.75902	8.65338	0.0849304	0.18273520	3.0755391	21	11 18.7	18.8
41082 1999 VQ_{48}	13.8	X	118.29506	28.52742	240.20824	11.97672	0.1160240	0.22728188	2.6592520	21	11 28.3	17.9
41083 1999 VO_{50}	13.1	X	101.49967	78.35902	8.73150	1.95632	0.0375084	0.19882808	2.9072625	21	3 10.6	17.0
41084 1999 VC_{52}	14.1	X	100.77436	209.75954	356.65123	3.42539	0.0678848	0.16787818	3.2544171	21	8 14.9	18.7
41085 1999 VL_{55}	15.0	X	67.34243	76.48983	21.42021	2.00904	0.0043206	0.19791627	2.9161848	21	2 5.4	18.9
41086 1999 VU_{55}	14.6	X	165.66874	191.68981	196.66501	1.65834	0.0574979	0.20191831	2.8775237	21	3 15.7	18.9
41087 1999 VS_{56}	14.5	X	314.97891	271.67685	167.87957	1.41396	0.2083826	0.17978911	3.1090459	21	11 8.3	17.8
41088 1999 VO_{57}	15.2	X	119.75984	283.29427	180.86838	1.68270	0.0268928	0.20522235	2.8465552	21	4 22.3	19.1
41089 1999 VM_{58}	14.4	X	179.27971	283.32810	59.68820	3.10869	0.0845524	0.19698547	2.9253641	21	2 7.5	18.8
41090 1999 VS_{59}	14.5	X	229.76983	233.34780	38.22081	2.29950	0.0604639	0.19535291	2.9416396	21	1 5.0	19.0
41091 1999 VY_{59}	15.1	X	246.56180	347.25806	219.25333	9.01430	0.0737966	0.18844698	3.0130750	21	—	—
41092 1999 VD_{60}	14.4	X	224.68618	70.86414	39.65197	5.86522	0.1063483	0.17103113	3.2142965	21	8 31.6	19.3
41093 1999 VR_{60}	14.9	X	271.20041	247.86404	66.70844	2.95462	0.0636018	0.20641069	2.8356193	21	4 12.6	18.9
41094 1999 VH_{61}	14.9	X	215.44009	98.71724	181.95656	1.71163	0.0791216	0.19475423	2.9476649	21	—	—
41095 1999 VK_{61}	14.2	X	85.28769	328.74930	48.78061	10.47810	0.0962257	0.19009355	2.9956504	21	—	—
41096 1999 VN_{61}	15.1	X	283.79996	304.59780	52.61655	2.24445	0.0884847	0.21315051	2.7755250	21	6 18.7	18.7
41097 1999 VO_{61}	14.5	X	296.60483	231.58595	217.13316	9.45552	0.0735649	0.17929540	3.1147506	21	11 3.9	18.4
41098 1999 VG_{63}	15.1	X	339.66248	21.87505	61.35165	1.21570	0.0766281	0.18396529	3.0618139	21	12 29.5	19.0
41099 1999 VL_{64}	15.5	X	201.31323	327.22025	112.31272	1.50101	0.0404001	0.21139999	2.7908259	21	6 30.1	19.4
41100 1999 VW_{64}	14.3	X	46.16361	38.22304	221.88171	7.17065	0.1870719	0.21605244	2.7506158	21	8 29.7	17.8
41101 1999 VE_{65}	15.0	X	319.24247	205.90399	45.80880	5.76414	0.0592929	0.20305606	2.8667649	21	3 27.0	18.8
41102 1999 VX_{66}	14.7	X	245.63492	260.98917	214.62235	3.46376	0.0569848	0.17531561	3.1617121	21	10 3.5	19.1
41103 1999 VE_{67}	13.9	X	318.99065	134.36287	225.60597	8.80179	0.2185274	0.17233694	3.1980393	21	7 23.9	17.8
41104 1999 VG_{67}	14.3	X	144.38903	292.86141	65.01952	2.98534	0.1100774	0.19477096	2.9474962	21	1 21.9	18.6
41105 1999 VR_{67}	14.0	X	202.45560	225.87152	57.27470	12.62087	0.0410844	0.19180593	2.9777943	21	—	—
41106 1999 VL_{69}	13.6	X	6.48579	310.07055	63.15782	2.26309	0.1713337	0.17982730	3.1086057	21	11 19.2	17.2
41107 Ropakov	15.6	X	256.65611	311.90473	22.82266	5.41170	0.2582254	0.25367581	2.4714397	21	3 28.9	19.5
41108 1999 VT_{73}	15.0	X	337.99791	96.28946	192.21749	8.98184	0.1404819	0.21484761	2.7608895	21	6 1.4	18.2
41109 1999 VC_{75}	14.4	X	221.90613	259.16115	194.35146	13.29307	0.1463281	0.17032123	3.2232218	21	7 29.6	19.7
41110 1999 VB_{78}	14.5	X	170.79370	60.19141	236.01362	13.99556	0.1087008	0.23879257	2.5730932	21	—	—
41111 1999 VF_{80}	14.7	X	74.01527	95.65565	211.84589	11.78261	0.1955865	0.22799024	2.6537410	21	12 8.8	18.8
41112 1999 VP_{82}	13.8	X	4.32004	294.90550	115.53706	10.03990	0.0841354	0.18246234	3.0786044	21	12 24.5	17.7
41113 1999 VQ_{83}	15.3	X	350.30270	213.76041	251.04841	2.79929	0.0437092	0.18941519	3.0027984	21	—	—
41114 1999 VC_{84}	14.4	X	329.53956	292.39519	45.29651	31.26008	0.2455252	0.21822492	2.7323300	21	7 17.0	17.8
41115 1999 VQ_{85}	13.9	X	134.50501	191.30716	144.93610	16.20686	0.1395382	0.23807396	2.5782683	21	—	—
41116 1999 VT_{85}	14.6	X	334.76331	22.42095	261.76350	3.02632	0.0698150	0.21070034	2.7970005	21	5 27.3	17.9
41117 1999 VM_{87}	14.4	X	284.42725	133.88276	252.98890	4.74790	0.0586715	0.21626776	2.7487898	21	8 2.1	18.1
41118 1999 VT_{87}	13.7	X	79.38909	227.03041	120.82273	11.03193	0.1160830	0.18498943	3.0505029	21	—	—
41119 1999 VV_{87}	14.2	X	355.92492	132.15160	169.30629	13.44334	0.1363046	0.21509670	2.7587577	21	7 22.6	17.4
41120 1999 VX_{87}	14.5	X	338.38139	294.36829	154.81327	12.04346	0.0946456	0.18377232	3.0639569	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41121 1999 VP_{89}	14.5	X	321.20638	195.42744	172.37297	1.68270	0.1930124	0.17383199	3.1796763	21	8 14.1	17.9
41122 1999 VD_{90}	13.6	X	242.04494	36.23882	31.62121	6.66806	0.1141790	0.17043702	3.2217617	21	7 27.2	18.5
41123 1999 VX_{90}	14.8	X	4.40864	272.35640	40.28623	11.58993	0.1242736	0.21928262	2.7235367	21	9 2.4	18.0
41124 1999 VG_{91}	14.8	X	110.76839	229.05301	38.46055	5.15499	0.0683644	0.22686060	2.6625432	21	11 15.2	18.6
41125 1999 VD_{92}	14.4	X	103.32832	332.47943	24.56312	11.03513	0.1036981	0.19254091	2.9702114	21	—	—
41126 1999 VQ_{92}	14.9	X	218.84965	135.80027	323.91815	0.24294	0.1522118	0.17023124	3.2243576	21	8 5.9	19.9
41127 1999 VZ_{92}	15.3	X	57.11459	158.46425	187.52640	2.72504	0.1222521	0.23087288	2.6316054	21	12 29.1	19.0
41128 1999 VA_{93}	14.6	X	246.90693	279.47874	170.84629	1.91463	0.0938226	0.17374315	3.1807602	21	8 30.1	19.2
41129 1999 VD_{94}	15.2	X	242.68037	262.03793	51.07008	2.74762	0.0765893	0.20414608	2.8565512	21	3 8.2	19.3
41130 1999 VC_{96}	15.3	X	134.87918	307.01834	40.35627	5.99177	0.1870218	0.24012006	2.5636009	21	—	—
41131 1999 VA_{98}	15.3	X	53.96555	145.66054	198.84782	2.43823	0.1207605	0.22848660	2.6498964	21	12 23.0	18.8
41132 1999 VC_{98}	15.4	X	77.49730	272.36267	52.87162	5.06978	0.1184643	0.22922200	2.6442257	21	12 25.6	19.2
41133 1999 VF_{98}	16.0	X	267.05770	99.69904	220.60288	1.19608	0.2139934	0.25381003	2.4705683	21	3 22.7	19.8
41134 1999 VP_{100}	15.0	X	153.12787	229.23619	37.57363	1.15785	0.0931832	0.18424958	3.0586635	21	12 22.6	19.6
41135 1999 VP_{103}	15.2	X	161.02579	239.10836	73.29946	2.82099	0.0641719	0.19079931	2.9882586	21	—	—
41136 1999 VL_{104}	14.7	X	153.62878	26.58270	220.46066	6.85937	0.1270213	0.18192418	3.0846728	21	11 30.2	19.7
41137 1999 VE_{114}	14.2	X	97.48754	79.20618	275.25030	7.57276	0.0951512	0.19017225	2.9948239	21	—	—
41138 1999 VZ_{114}	13.9	X	163.13357	38.90681	260.82523	9.59251	0.0827977	0.19198641	2.9759278	21	—	—
41139 1999 VU_{119}	15.8	X	36.25781	0.81922	334.54818	1.78545	0.2286574	0.27262759	2.3555347	21	12 13.9	18.6
41140 1999 VV_{122}	14.5	X	171.33791	329.05427	175.24579	6.08902	0.0973754	0.17103376	3.2142636	21	8 14.8	19.4
41141 1999 VB_{125}	15.8	X	6.93362	264.27315	91.16123	4.56851	0.2737318	0.27372759	2.3492199	21	12 6.1	17.8
41142 1999 VF_{125}	15.3	X	271.73220	129.31266	351.16931	0.69969	0.0112918	0.18068453	3.0987656	21	11 17.9	19.6
41143 1999 VR_{129}	14.7	X	153.55867	106.85991	226.16157	11.16696	0.0626764	0.19417098	2.9535648	21	—	—
41144 1999 VA_{131}	14.2	X	189.40770	324.49517	230.04349	9.26888	0.0495034	0.17944387	3.1130324	21	11 5.5	18.7
41145 1999 VW_{135}	15.2	X	193.31784	47.39963	262.85532	0.91152	0.0737311	0.19619156	2.9332506	21	1 12.5	19.6
41146 1999 VS_{136}	15.2	X	220.33020	17.29253	232.59875	2.97819	0.2187333	0.23832721	2.5764416	21	—	—
41147 1999 VK_{137}	14.6	X	135.00719	232.41711	33.62704	1.54657	0.1310856	0.18170029	3.0872062	21	12 4.8	19.4
41148 1999 VU_{143}	14.6	X	39.60423	15.09925	245.88760	4.07704	0.0424304	0.21472641	2.7619284	21	8 1.3	18.3
41149 1999 VQ_{144}	14.1	X	200.15303	225.27516	315.68870	4.26242	0.1092685	0.17846660	3.1243865	21	10 25.9	18.9
41150 1999 VE_{146}	15.7	X	161.15951	29.41158	93.27367	1.80734	0.0157559	0.21309110	2.7760408	21	7 7.1	19.4
41151 1999 VH_{148}	14.8	X	95.21201	67.79821	219.73016	11.91783	0.1719825	0.22681330	2.6629133	21	12 2.8	19.0
41152 1999 VW_{148}	14.4	X	173.88600	52.12215	136.51650	2.10525	0.1023732	0.17489592	3.1667681	21	10 11.9	19.4
41153 1999 VB_{150}	14.5	X	182.49431	258.58284	299.31874	1.43162	0.0903360	0.17939881	3.1135536	21	10 30.8	19.3
41154 1999 VO_{151}	14.0	X	134.63323	335.16863	260.83486	3.30028	0.1174213	0.17661083	3.1462350	21	10 28.8	19.0
41155 1999 VG_{157}	15.1	X	145.45836	133.61022	228.47009	4.56865	0.2039792	0.24453102	2.5326786	21	1 28.1	18.9
41156 1999 VV_{157}	14.8	X	121.10124	124.01300	220.18506	7.86099	0.1773922	0.23857768	2.5746380	21	—	—
41157 1999 VX_{159}	14.4	X	341.24203	71.89710	222.71113	12.48476	0.1878753	0.21580766	2.7526953	21	6 10.3	17.3
41158 1999 VG_{160}	14.9	X	230.75828	178.90598	222.01732	5.32861	0.1224015	0.21225201	2.7833523	21	6 8.1	19.1
41159 1999 VE_{161}	15.3	X	217.73815	15.71712	333.83204	0.92534	0.0798740	0.20266064	2.8704927	21	3 24.6	19.7
41160 1999 VP_{163}	15.0	X	257.35887	275.82100	31.09812	2.33609	0.0499468	0.20314402	2.8659373	21	3 19.1	19.0
41161 1999 VM_{165}	14.7	X	161.96162	249.34315	38.15894	10.33668	0.0858416	0.18775758	3.0204459	21	—	—
41162 1999 VM_{168}	14.2	X	145.90579	352.12474	270.78793	7.36211	0.0905389	0.18102849	3.0948392	21	12 10.5	19.1
41163 1999 VX_{168}	14.8	X	183.59599	269.28861	53.08072	11.86031	0.2706427	0.24207565	2.5497757	21	1 22.8	19.4
41164 1999 VO_{169}	15.3	X	41.13853	32.09342	350.03641	1.86227	0.1251337	0.18309566	3.0715012	21	—	—
41165 1999 VW_{170}	13.5	X	113.29709	61.21840	270.65054	8.88455	0.0933720	0.18578707	3.0417654	21	—	—
41166 1999 VJ_{172}	13.9	X	68.88206	44.48938	301.08853	4.21121	0.1828081	0.18206373	3.0830963	21	—	—
41167 1999 VV_{172}	13.5	X	129.60098	256.48885	70.55432	11.26132	0.1280527	0.18582899	3.0413080	21	—	—
41168 1999 VB_{174}	13.6	X	107.71385	52.43937	344.57858	8.02362	0.2063786	0.19570992	2.9380611	21	2 10.3	17.7
41169 1999 VL_{174}	14.6	X	159.50491	54.11241	316.70299	3.43990	0.1437770	0.19793538	2.9159971	21	2 23.0	19.2
41170 1999 VW_{175}	14.0	X	45.05062	328.10728	49.17860	12.66995	0.1594476	0.18636854	3.0354354	21	—	—
41171 1999 VJ_{176}	14.5	X	55.97975	89.78729	207.28248	12.29652	0.1853664	0.22224559	2.6992759	21	11 4.7	18.1
41172 1999 VT_{176}	15.3	X	33.11854	203.32054	268.41604	0.93254	0.0612861	0.19495721	2.9456186	21	1 10.8	19.0
41173 1999 VP_{180}	14.3	X	278.65287	230.72380	207.62514	0.93751	0.1099659	0.17747827	3.1359749	21	9 21.7	18.6
41174 1999 VH_{184}	13.7	X	47.61382	220.77137	48.42827	15.52146	0.1672858	0.17384018	3.1795764	21	9 17.9	18.1
41175 1999 VN_{185}	14.4	X	58.86192	210.72350	64.33187	10.36028	0.0175646	0.17183588	3.2042531	21	9 15.9	19.0
41176 1999 VP_{186}	14.9	X	37.16011	275.58166	55.67976	13.52136	0.2091515	0.22631365	2.6668314	21	11 26.9	18.3
41177 1999 VB_{187}	14.1	X	155.19688	347.02647	202.83216	8.96636	0.0299124	0.17408662	3.1765751	21	9 21.1	18.8
41178 1999 VY_{187}	14.8	X	181.66459	50.46148	218.54077	7.49167	0.0675697	0.18730217	3.0253399	21	—	—
41179 1999 VW_{192}	14.6	X	191.55191	93.21375	319.94254	5.14757	0.0379850	0.20912526	2.8110272	21	5 13.1	18.7
41180 1999 VQ_{193}	15.5	X	186.06863	39.82679	262.20479	3.87300	0.2373331	0.24295085	2.5436485	21	—	—
41181 1999 VR_{194}	15.3	X	35.44333	144.73330	191.71449	13.21355	0.2739755	0.22593281	2.6698273	21	12 12.3	19.1
41182 1999 VL_{195}	14.1	X	164.73880	355.87335	168.37831	5.98581	0.0897991	0.17195008	3.2028343	21	9 2.2	19.1
41183 1999 VP_{195}	14.7	X	111.48135	298.87406	79.21391	2.98247	0.0803061	0.19420975	2.9531716	21	1 3.9	18.8
41184 1999 VW_{199}	14.5	X	283.48150	154.39736	179.73614	17.44426	0.1553873	0.21057518	2.7981088	21	5 11.6	18.7
41185 1999 VJ_{200}	13.1	X	240.28686	350.70370	163.52499	17.85984	0.1472784	0.17903496	3.1177706	21	11 6.7	18.0
41186 1999 VT_{200}	15.2	X	194.20528	192.21334	142.42622	15.85641	0.1302372	0.24532444	2.5272149	21	2 5.8	19.0
41187 1999 VB_{201}	15.1	X	359.44522	209.20577	112.37434	14.46653	0.2181569	0.26649811	2.3915160	21	9 21.2	17.2
41188 1999 VC_{201}	13.7	X	320.69657	213.93290	156.84479	19.73455	0.1520874	0.17219717	3.1997696	21	8 21.6	17.6
41189 1999 VE_{201}	13.7	X	326.92570	267.75050	141.39479	22.73126	0.0413892	0.17738788	3.1370402	21	11 5.7	18.4
41190 1999 VJ_{203}	14.8	X	174.91358	245.60131	87.13849	14.68912	0.1360841	0.24435372	2.5339035	21	1 17.3	18.7
41191 1999 VL_{203}	13.9	X	286.43110	243.42937	144.28513	22.99346	0.1155226	0.16992572	3.2282213	21	7 27.8	18.4
41192 1999 VB_{206}	15.0	X	280.46965	31.51975	51.27120	6.90306	0.1120813	0.17566107	3.1575655	21	10 2.3	19.3
41193 1999 VV_{206}	14.3	X	193.92744	321.26421	325.71978	15.85210	0.1862626	0.24225364	2.5485267	21	—	—
41194 1999 VH_{213}	14.4	X	327.12730	299.78590	123.95385	7.07221	0.1118686	0.17876875	3.1208650	21	11 17.0	18.3
41195 1999 VL_{221}	14.7	X	195.50673	5.92869	241.94827	6.64677	0.0625151	0.18748461	3.0233770	21	—	—
41196 1999 VV_{224}	14.5	X	123.57462	138.08758	191.18332	12.28700	0.0283008	0.18867395	3.0106580	21	—	—
41197 1999 VU_{228}	14.7	X	238.07113	20.90646	166.86761	3.01727	0.0816604	0.18586723	3.0408908	21	12 19.8	19.1
41198 1999 WB	14.0	X	42.17155	134.47056	232.54351	13.77281	0.1367186	0.22811452	2.6527771	21	—	—
41199 Wakanaootaki	14.2	X	66.03196	219.16261	162.55424	16.35674	0.2839414	0.23276003	2.6173619	21	—	—
41200 1999 WA_{3}	14.0	X	99.85470	336.27086	69.83747	14.55661	0.1020912	0.19310239	2.9644511	21	1 29.8	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41201 1999 WF_4	14.3	X	44.17274	152.99958	222.67878	9.02442	0.0462113	0.18092075	3.0960678	21	12 28.1	18.7
41202 1999 WX_6	14.2	X	60.77842	148.00849	235.68956	9.26341	0.0926965	0.18550003	3.0449025	21	—	—
41203 1999 WK_7	13.3	X	146.29092	351.08142	250.99543	9.35093	0.1720386	0.17749127	3.1358218	21	11 17.1	18.5
41204 1999 WX_8	12.8	X	212.98894	65.60235	82.94318	17.11354	0.0855169	0.17357024	3.1828722	21	10 12.9	17.9
41205 1999 WZ_8	14.6	X	112.08833	209.13767	108.63530	6.88992	0.2487782	0.23222910	2.6213497	21	—	—
41206 Sciannameo	14.7	X	62.67304	264.44290	104.46976	14.16968	0.1853657	0.23148513	2.6269632	21	—	—
41207 1999 WK_9	15.0	X	182.07446	197.31632	118.71740	8.23451	0.2509901	0.24112753	2.5564552	21	1 10.9	19.3
41208 1999 WL_9	15.3	X	146.35116	230.54723	93.12644	5.50255	0.2249632	0.23781113	2.5801677	21	—	—
41209 1999 WB_{15}	14.4	X	304.90965	350.11822	31.32822	6.90009	0.0391750	0.21987150	2.7186716	21	8 31.9	18.0
41210 1999 WN_{18}	14.7	X	352.59465	249.41496	130.95495	10.76360	0.2600076	0.27347766	2.3506510	21	12 13.6	16.7
41211 1999 XB_1	12.7	X	317.24684	188.53057	108.36981	9.05769	0.0741717	0.15814799	3.3865717	21	5 23.5	17.4
41212 1999 XO_1	15.1	X	92.77878	310.67767	48.47753	11.45742	0.1724912	0.23783052	2.5800274	21	—	—
41213 Mimoun	14.1	X	47.19549	116.95071	251.65645	8.41181	0.2135229	0.22895255	2.6462999	21	—	—
41214 1999 XZ_3	14.4	X	320.33081	114.05576	206.74012	8.45070	0.1674537	0.21307492	2.7761813	21	6 11.7	17.7
41215 1999 XH_4	14.7	X	308.93830	347.20858	134.63156	2.33818	0.0352787	0.18408213	3.0605182	21	—	—
41216 1999 XG_5	14.6	X	96.29720	255.17738	96.38264	3.72054	0.1458146	0.18754928	3.0226819	21	—	—
41217 1999 XT_6	14.3	X	15.21402	301.93899	51.08075	8.93059	0.1509027	0.22318378	2.6917060	21	11 14.0	17.2
41218 1999 XK_{10}	13.5	X	202.94967	154.66846	5.18467	10.99011	0.1309761	0.17590421	3.1546552	21	10 3.1	18.3
41219 1999 XR_{11}	15.0	X	308.32552	300.48078	28.12839	17.12781	0.2902003	0.21530100	2.7570121	21	5 9.1	18.6
41220 1999 XV_{12}	14.6	X	325.28677	133.69453	184.26389	8.74581	0.1520068	0.21121804	2.7924284	21	6 18.7	17.9
41221 1999 XQ_{13}	14.1	X	300.96256	118.86399	214.15402	12.27887	0.2568526	0.21290410	2.7776661	21	5 14.9	17.8
41222 1999 XH_{15}	14.8	X	71.19418	115.37443	214.46404	1.03687	0.2887062	0.18305529	3.0719527	21	—	—
41223 1999 XD_{16}	13.6	X	74.54234	329.59039	30.24831	11.76615	0.3720449	0.22878746	2.6475727	21	—	—
41224 1999 XX_{17}	14.2	X	137.65774	144.03907	275.27386	1.96954	0.1475700	0.20404430	2.8575011	21	3 30.9	18.5
41225 1999 XY_{17}	15.1	X	297.67852	140.82961	217.32449	4.41213	0.1779759	0.21821022	2.7324527	21	6 25.2	18.4
41226 1999 XZ_{17}	14.5	X	337.26675	162.40648	204.03702	13.29109	0.1586564	0.22362544	2.6881608	21	9 19.9	17.4
41227 1999 XN_{18}	14.1	X	136.10654	301.19447	81.25539	3.34792	0.0881020	0.19928911	2.9027770	21	2 8.4	18.2
41228 1999 XT_{18}	15.3	X	145.90025	157.95940	176.18593	3.54532	0.2625956	0.24173475	2.5521723	21	1 2.6	19.2
41229 1999 XB_{19}	14.6	X	351.87384	333.94564	26.67017	12.46841	0.2001318	0.22514644	2.6760403	21	10 17.8	16.9
41230 1999 XE_{20}	14.6	X	152.10374	280.89863	101.77054	3.01322	0.0883391	0.19972181	2.8985829	21	2 26.3	18.8
41231 1999 XS_{20}	14.0	X	332.27480	302.99807	58.82552	11.84461	0.0839292	0.21952532	2.7215290	21	9 16.2	17.5
41232 1999 XK_{21}	14.9	X	91.87069	114.99659	202.63719	11.69560	0.1598100	0.23004098	2.6379460	21	—	—
41233 1999 XX_{22}	13.5	X	191.11520	173.88494	46.59159	14.18692	0.1089576	0.22903022	2.6457016	21	12 10.1	17.6
41234 1999 XP_{23}	14.4	X	276.59732	345.12180	108.38048	1.84023	0.1218085	0.17660025	3.1463607	21	10 7.4	18.6
41235 1999 XB_{24}	13.7	X	292.61428	207.98223	230.71414	14.40644	0.0714394	0.17740229	3.1368703	21	10 14.1	18.0
41236 1999 XH_{24}	14.8	X	28.31406	69.86277	242.24126	5.46930	0.2431782	0.22288878	2.6940805	21	10 23.9	17.8
41237 1999 XM_{25}	14.5	X	14.99388	195.96408	162.34437	1.44783	0.1684498	0.17867979	3.1219008	21	11 13.9	18.1
41238 1999 XU_{25}	14.8	X	89.01064	221.55581	103.33577	3.81056	0.2126919	0.23059141	2.6337465	21	—	—
41239 1999 XD_{26}	13.7	X	91.76035	297.00846	53.06196	10.97610	0.0694396	0.18769562	3.0211106	21	—	—
41240 1999 XO_{26}	14.2	X	82.06594	121.74879	233.69192	6.39968	0.0858445	0.18700240	3.0285721	21	—	—
41241 1999 XV_{26}	15.2	X	142.34083	135.85287	179.75783	2.20819	0.2222763	0.23701340	2.5859539	21	—	—
41242 1999 XY_{26}	14.3	X	65.59274	347.60027	123.85755	2.91705	0.0144806	0.19827966	2.9126208	21	2 20.7	18.2
41243 1999 XG_{29}	14.6	X	104.05728	153.39808	223.03513	10.31863	0.1056221	0.19049455	2.9914450	21	—	—
41244 1999 XY_{30}	13.8	X	114.22513	52.07464	228.41646	11.84811	0.2585361	0.22691212	2.6621402	21	12 14.6	18.5
41245 1999 XJ_{37}	13.7	X	23.41470	275.26417	82.78581	16.47062	0.1948088	0.22575365	2.6712397	21	12 11.2	17.0
41246 1999 XZ_{38}	14.8	X	299.46856	205.22868	124.23418	9.44987	0.2067367	0.21163057	2.7887984	21	5 18.5	18.6
41247 1999 XQ_{39}	14.1	X	358.58038	91.78834	230.72519	13.75444	0.1844457	0.21774954	2.7363053	21	8 25.5	17.1
41248 1999 XG_{40}	14.3	X	154.92131	9.98379	346.45153	1.96313	0.0739779	0.19615009	2.9336640	21	1 27.3	18.4
41249 1999 XJ_{40}	15.1	X	80.25581	30.76086	291.83870	2.20687	0.0992502	0.22860234	2.6490019	21	12 23.3	18.7
41250 1999 XA_{41}	14.7	X	284.20383	70.05223	13.25408	1.03708	0.1034331	0.17597458	3.1538141	21	10 6.4	18.8
41251 1999 XD_{41}	14.4	X	92.10971	28.46402	255.27271	5.07259	0.1095146	0.18001477	3.1064471	21	11 11.8	19.1
41252 1999 XJ_{42}	14.6	X	78.62153	170.46117	247.00249	9.66746	0.0825734	0.19280529	2.9674956	21	1 7.9	18.5
41253 1999 XP_{43}	14.5	X	243.96026	0.10603	28.00801	4.40869	0.1037730	0.21059532	2.7979304	21	6 7.2	18.6
41254 1999 XT_{43}	14.6	X	174.81793	58.96460	254.48765	9.53757	0.0933974	0.19270521	2.9685230	21	—	—
41255 1999 XV_{43}	14.7	X	155.18280	296.90824	19.52948	3.13639	0.1882535	0.23762275	2.5815311	21	—	—
41256 1999 XX_{45}	14.4	X	60.46182	240.41347	57.19642	13.25490	0.1782513	0.22281673	2.6946613	21	11 10.2	18.2
41257 1999 XG_{46}	15.0	X	235.38130	206.11091	47.24461	2.78561	0.0547928	0.19138965	2.9821106	21	—	—
41258 1999 XB_{47}	14.4	X	43.34777	168.29808	257.55648	7.58009	0.0723138	0.18870688	3.0103077	21	—	—
41259 1999 XH_{52}	14.6	X	351.32685	348.44158	41.40848	1.97841	0.1045401	0.17759771	3.1345688	21	11 9.6	18.5
41260 1999 XZ_{53}	14.3	X	235.10004	139.10016	121.51238	2.79857	0.0375084	0.19165911	2.9793149	21	—	—
41261 1999 XA_{54}	14.2	X	167.26728	238.21307	112.28407	3.06132	0.1261289	0.19592082	2.9359522	21	2 6.5	18.6
41262 1999 XZ_{55}	14.3	X	317.12443	311.87611	41.32975	1.68433	0.2190933	0.17033118	3.2230963	21	7 14.3	18.2
41263 1999 XM_{56}	14.7	X	96.10447	72.40933	243.30949	8.67256	0.0815639	0.18175795	3.0865533	21	12 21.4	19.4
41264 1999 XF_{58}	13.8	X	186.90093	343.12026	229.65918	6.12880	0.1066871	0.17848216	3.1242049	21	11 21.4	18.7
41265 1999 XG_{58}	14.8	X	117.34212	252.49557	80.81528	9.53663	0.2173710	0.23412534	2.6071765	21	—	—
41266 1999 XP_{58}	14.5	X	356.62180	195.72608	245.00203	9.82689	0.0788690	0.18372963	3.0644315	21	—	—
41267 1999 XK_{60}	14.1	X	268.28054	203.28038	222.88944	2.62309	0.1289193	0.16921103	3.2373049	21	8 19.5	18.7
41268 1999 XO_{64}	12.6	X	260.02494	37.12758	75.24818	16.28827	0.1320023	0.08363507	5.1785767	21	10 6.1	19.8
41269 1999 XX_{65}	13.6	X	143.88953	356.23176	245.99406	5.75695	0.1153519	0.17683638	3.1435591	21	11 14.2	18.5
41270 1999 XK_{68}	14.1	X	43.73096	211.26273	87.09662	13.76497	0.1711870	0.21843470	2.7305804	21	10 24.6	17.8
41271 1999 XQ_{71}	15.2	X	110.08214	93.72814	232.83410	2.36781	0.2420267	0.23179446	2.6246256	21	—	—
41272 1999 XH_{72}	13.6	X	88.81870	319.30012	80.11655	11.61308	0.0880508	0.18978242	2.9989236	21	1 2.6	17.6
41273 1999 XL_{72}	14.4	X	97.66445	283.94865	83.36631	10.76621	0.1035806	0.18727300	3.0256540	21	—	—
41274 1999 XS_{72}	13.5	X	146.40432	237.90568	84.02095	10.97784	0.1080673	0.18773824	3.0206533	21	—	—
41275 1999 XP_{78}	14.7	X	132.88383	274.17346	350.74930	0.36094	0.0156888	0.17862773	3.1225073	21	11 26.6	19.1
41276 1999 XG_{83}	12.6	X	10.53895	304.31626	96.91156	19.53059	0.2369237	0.17965222	3.1106250	21	—	—
41277 1999 XS_{85}	13.7	X	64.45167	292.76252	106.81941	13.84135	0.1709093	0.18529819	3.0471132	21	—	—
41278 1999 XA_{90}	12.9	X	175.50012	304.65372	258.14204	7.98485	0.1237629	0.12510600	3.9592897	21	10 21.4	19.2
41279 Trentman	14.0	X	139.65101	5.98150	258.52161	10.83088	0.0545906	0.18383066	3.0633086	21	12 5.9	18.5
41280 1999 XJ_{95}	14.3	X	122.44857	299.36177	71.54891	15.00627	0.2179628	0.23683283	2.5872682	21	1 20.6	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41281 1999 XZ_{95}	13.6	X	10.90029	314.69061	75.62953	15.48095	0.1399761	0.17742148	3.1366442	21	12 13.3	17.3
41282 1999 XO_{96}	14.2	X	48.06679	350.10281	47.84668	2.46177	0.1481279	0.18532136	3.0468593	21	—	—
41283 1999 XM_{99}	12.3	X	332.52591	273.98751	85.15420	11.60152	0.2152288	0.12402022	3.9823648	21	8 22.2	17.0
41284 1999 XP_{102}	13.6	X	142.48467	272.86651	90.84292	11.04693	0.1166093	0.19071132	2.9891777	21	1 29.2	18.1
41285 1999 XM_{106}	14.3	X	147.23063	85.67692	238.74663	13.20304	0.1579391	0.23895336	2.5719387	21	—	—
41286 1999 XN_{106}	13.4	X	289.43129	142.63873	238.09542	10.17040	0.1606798	0.17122438	3.2118776	21	7 14.3	18.0
41287 1999 XZ_{106}	14.7	X	185.01107	69.45902	248.00095	13.24452	0.1170911	0.24180736	2.5516614	21	1 5.0	18.7
41288 1999 XD_{107}	14.4	X	210.38448	32.45429	227.81128	24.13649	0.1426076	0.23730036	2.5838687	21	—	—
41289 1999 XN_{107}	14.4	X	65.57567	353.63061	2.55623	2.15738	0.1557220	0.18551537	3.0447347	21	—	—
41290 1999 XB_{108}	14.1	X	348.45792	314.13751	55.31892	17.43857	0.1293130	0.17664311	3.1458518	21	10 17.4	18.0
41291 1999 XE_{108}	14.2	X	160.36114	269.63082	85.66019	3.09021	0.1077468	0.19690371	2.9261738	21	2 4.1	18.7
41292 1999 XH_{108}	14.2	X	334.16272	233.96646	215.82985	8.21020	0.0507819	0.18399921	3.0614376	21	12 28.4	18.4
41293 1999 XY_{108}	14.6	X	220.59707	204.56154	140.03039	2.68147	0.0860066	0.20297195	2.8675568	21	3 22.4	18.9
41294 1999 XH_{109}	14.0	X	33.54498	292.40582	95.05558	5.88991	0.0336992	0.18381480	3.0634848	21	12 28.9	18.2
41295 1999 XM_{110}	14.6	X	128.37061	280.56494	76.88505	10.01503	0.1150599	0.19252910	2.9703329	21	1 4.3	18.9
41296 1999 XY_{119}	13.4	X	23.00409	54.43229	248.29969	20.67379	0.0542438	0.17135645	3.2102270	21	8 22.5	18.2
41297 1999 XE_{123}	14.6	X	50.99894	316.87241	24.99626	13.37432	0.1973698	0.22792235	2.6542680	21	12 26.4	18.6
41298 1999 XT_{123}	13.0	X	53.54054	98.22976	272.46925	10.04825	0.0558198	0.18424214	3.0587459	21	—	—
41299 1999 XY_{125}	14.4	X	206.23631	14.59273	292.63867	5.70115	0.2005385	0.24240259	2.5474825	21	1 17.3	18.5
41300 1999 XZ_{126}	14.2	X	289.48187	170.08946	45.90091	9.89623	0.0181581	0.19247568	2.9708825	21	1 11.2	18.5
41301 1999 XP_{127}	14.0	X	98.36587	22.35475	271.12974	6.69668	0.1355555	0.17919980	3.1158584	21	12 2.3	18.7
41302 1999 XO_{129}	14.1	X	6.70865	5.89308	346.10708	9.03106	0.0908050	0.17478015	3.1681664	21	10 11.6	18.3
41303 1999 XP_{139}	15.2	X	189.03995	203.80330	70.48748	2.53527	0.1795879	0.18928239	3.0042028	21	—	—
41304 1999 XA_{141}	13.9	X	8.93870	215.18583	108.67761	9.79681	0.3094222	0.21494078	2.7600917	21	10 19.7	16.4
41305 1999 XK_{143}	13.4	X	242.01950	213.23253	103.53927	17.89248	0.0819120	0.19980239	2.8978034	21	3 18.6	18.1
41306 1999 XT_{146}	15.1	X	188.63050	197.57884	85.16243	2.90556	0.0671436	0.18941125	3.0028400	21	—	—
41307 1999 XA_{149}	15.3	X	249.39842	268.97059	56.19989	2.82805	0.0615818	0.20315576	2.8658269	21	3 31.8	19.4
41308 1999 XA_{154}	12.8	X	181.11916	194.08786	113.68500	11.37016	0.0589838	0.18964838	3.0003365	21	—	—
41309 1999 XT_{157}	13.7	X	74.43328	128.04722	247.46892	10.11412	0.0551133	0.18395533	3.0619245	21	—	—
41310 1999 XC_{158}	13.1	X	186.18951	204.02502	104.62698	11.41756	0.0807122	0.18926954	3.0043387	21	1 5.0	17.7
41311 1999 XR_{166}	13.6	X	213.27993	206.42455	293.68081	8.71230	0.0409910	0.17352032	3.1834826	21	9 23.3	18.3
41312 1999 XU_{167}	13.8	X	10.03309	297.99833	53.22177	13.02424	0.2262303	0.17651219	3.1474070	21	11 4.1	17.1
41313 1999 XD_{168}	13.6	X	16.89394	263.52970	64.00907	13.96022	0.1991766	0.21964652	2.7205278	21	10 24.6	16.7
41314 1999 XN_{168}	13.4	X	357.44354	275.48172	22.25715	9.24758	0.1453815	0.21356579	2.7719258	21	7 25.5	16.5
41315 1999 XU_{168}	14.1	X	314.32764	344.15452	51.72412	12.56296	0.1784565	0.17288614	3.1912630	21	9 18.2	18.0
41316 1999 XJ_{187}	13.0	X	196.88880	255.13551	64.14676	11.71076	0.1104648	0.19085398	2.9876880	21	1 31.7	17.8
41317 1999 XO_{191}	14.2	X	281.26399	333.89485	43.21211	11.15004	0.1971761	0.21251183	2.7810832	21	6 24.9	18.2
41318 1999 XT_{196}	13.6	X	183.17741	245.98881	68.13881	12.66619	0.1122671	0.18895413	3.0076811	21	1 10.8	18.4
41319 1999 XJ_{208}	13.8	X	174.60045	22.07567	283.79517	10.94748	0.2388171	0.23679608	2.5875359	21	—	—
41320 1999 XJ_{209}	13.3	X	141.90466	338.26446	17.81712	10.71204	0.0935487	0.19102536	2.9859007	21	1 18.0	17.8
41321 1999 XM_{209}	13.7	X	84.09625	291.60304	56.42229	22.21357	0.3095523	0.18500104	3.0503753	21	—	—
41322 1999 XK_{212}	14.6	X	292.40051	254.90601	121.52732	5.17648	0.1048517	0.21569861	2.7536230	21	7 24.8	18.2
41323 1999 XM_{212}	13.5	X	326.20092	36.90822	77.85881	10.70739	0.0710400	0.18570831	3.0426254	21	—	—
41324 1999 XO_{212}	14.6	X	120.32047	113.54230	212.42492	13.26104	0.1640675	0.23372434	2.6101577	21	—	—
41325 1999 XR_{212}	13.9	X	101.68995	191.74089	169.53238	10.40085	0.1094665	0.18901457	3.0070399	21	—	—
41326 1999 XY_{212}	13.8	X	352.37570	342.83615	94.98440	18.96096	0.1865066	0.18324375	3.0698461	21	—	—
41327 1999 XD_{217}	13.8	X	100.99885	328.17240	341.48381	0.28830	0.1713696	0.17639816	3.1487633	21	12 25.9	18.8
41328 1999 XP_{220}	14.0	X	223.41543	282.20313	116.38132	9.04709	0.2658530	0.21072834	2.7967528	21	5 22.6	19.0
41329 1999 XM_{221}	13.5	X	225.23914	273.85213	36.66953	11.22656	0.0653633	0.15099635	3.4926769	21	2 26.5	18.9
41330 1999 XU_{225}	15.1	X	343.78707	243.81874	300.31333	3.00178	0.1787480	0.27992934	2.3143930	21	—	—
41331 1999 XB_{232}	13.5	X	83.24540	155.94879	238.87289	23.53563	0.1685851	0.27520935	2.3407799	21	—	—
41332 1999 XM_{233}	13.9	X	288.48520	27.02127	132.70062	16.69658	0.0336016	0.18535690	3.0464698	21	—	—
41333 1999 XL_{238}	14.5	X	168.79922	217.46791	106.91430	16.04590	0.1676552	0.23958451	2.5674198	21	1 3.9	18.5
41334 1999 XE_{242}	13.8	X	95.19306	44.02508	271.08938	9.51794	0.0887232	0.18182516	3.0857925	21	12 20.7	18.5
41335 1999 XL_{244}	15.5	X	38.91188	185.75052	134.99375	9.96468	0.2403931	0.26967823	2.3726779	21	12 1.6	18.7
41336 1999 XX_{244}	15.6	X	33.88494	27.79908	333.95473	1.04556	0.1180396	0.18042437	3.1017438	21	12 8.7	19.7
41337 1999 XN_{258}	14.0	X	317.22719	316.48166	142.43878	18.04297	0.0730292	0.18096007	3.0956194	21	12 17.9	18.3
41338 1999 YF_{4}	14.6	X	344.84584	289.25811	85.62688	8.69393	0.0705321	0.22665442	2.6641576	21	10 22.7	17.9
41339 1999 YR_{9}	14.7	X	279.11628	2.54176	85.52281	5.84633	0.1311722	0.21585764	2.7522704	21	10 9.8	18.2
41340 1999 YO_{14}	11.2	X	277.68050	285.35769	183.28196	33.16689	0.0576816	0.08401559	5.1629286	21	10 24.2	18.1
41341 1999 YZ_{21}	13.3	X	350.02441	120.18743	230.05578	11.86205	0.1094123	0.17283336	3.1919126	21	9 11.7	17.5
41342 1999 YC_{23}	12.4	X	299.95363	199.98628	239.18331	2.88013	0.0877413	0.08019568	5.3256024	21	10 11.2	19.2
41343 2000 AY_{9}	13.9	X	208.82355	330.87690	277.93232	8.40706	0.0630397	0.18818877	3.0158304	21	—	—
41344 2000 AR_{16}	12.9	X	342.90702	179.47880	73.96156	12.09616	0.1084964	0.15602465	3.4172276	21	5 3.5	17.3
41345 2000 AB_{18}	13.0	X	85.79551	22.26018	281.99226	6.75603	0.1692978	0.17609184	3.1524138	21	12 5.4	17.8
41346 2000 AW_{19}	14.0	X	184.10773	258.98160	70.56300	12.18831	0.0837189	0.19263648	2.9692290	21	1 29.6	18.7
41347 2000 AR_{22}	13.6	X	144.72844	231.48102	81.13373	11.28267	0.1231293	0.18394698	3.0620171	21	—	—
41348 2000 AH_{23}	15.0	X	44.78132	190.44710	291.64264	3.70191	0.0440937	0.23726380	2.5841342	21	1 30.2	18.1
41349 2000 AA_{24}	12.7	X	119.50277	197.16848	85.97289	13.15851	0.1638947	0.17603920	3.1530423	21	12 11.7	17.9
41350 2000 AJ_{25}	12.1	X	345.17905	105.11472	294.27104	9.70136	0.0831282	0.08251437	5.2253615	21	10 22.5	18.8
41351 2000 AS_{27}	13.0	X	221.68289	109.17289	51.56269	5.85251	0.0264738	0.12727804	3.9141163	21	10 28.9	18.6
41352 2000 AT_{31}	13.4	X	21.18307	255.40094	95.78022	15.05035	0.1457985	0.17207811	3.2012453	21	11 14.9	17.6
41353 2000 AB_{33}	12.0	X	1.21074	312.57226	92.72371	9.97503	0.0779340	0.08263981	5.2200720	21	11 24.3	18.5
41354 2000 AW_{33}	13.1	X	136.76464	14.03933	316.97933	12.92505	0.2549138	0.18368389	3.0649402	21	1 1.4	18.0
41355 2000 AF_{36}	12.6	X	337.76026	326.46628	95.86942	8.03011	0.0800030	0.08385296	5.1696022	21	11 13.5	19.1
41356 2000 AZ_{51}	13.8	X	319.92302	47.70023	344.33334	4.22619	0.1751535	0.17553957	3.1590223	21	9 16.1	17.3
41357 2000 AD_{52}	14.3	X	181.56872	41.92036	287.04103	9.16264	0.2439835	0.24447070	2.5330951	21	1 23.8	18.7
41358 2000 AJ_{54}	13.1	X	294.46639	344.17300	299.55286	11.62697	0.0695254	0.19605074	2.9346551	21	3 25.9	17.5
41359 2000 AG_{55}	12.1	X	347.17662	338.21101	102.79707	6.76669	0.0257534	0.08433232	5.1499933	21	12 14.3	18.8
41360 2000 AN_{68}	13.0	X	233.47506	333.35159	231.00248	9.91122	0.0741194	0.18396092	3.0618624	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41361 2000 AO_{76}	13.4	X	56.43211	269.73781	112.96073	12.03552	0.1567459	0.18349445	3.0670494	21	—	—
41362 2000 AJ_{81}	13.6	X	73.19239	270.03330	114.62439	11.03498	0.0809427	0.18540917	3.0458972	21	—	—
41363 2000 AA_{90}	13.1	X	240.78175	187.07242	138.66534	10.51133	0.0785824	0.15043603	3.5013442	21	3 29.4	18.4
41364 2000 AD_{96}	15.6	X	39.81858	49.95002	124.08842	8.24903	0.0221358	0.28507033	2.2864833	21	3 30.6	18.3
41365 2000 AO_{98}	12.6	X	274.40514	201.65342	168.50097	9.27378	0.2251319	0.12440263	3.9741995	21	6 7.8	18.5
41366 2000 AU_{98}	14.9	X	98.82965	282.12311	67.72485	16.01920	0.1798247	0.23586434	2.5943458	21	—	—
41367 2000 AP_{99}	13.6	X	347.42972	235.23684	210.35012	10.88111	0.0948172	0.18513972	3.0488518	21	—	—
41368 2000 AA_{100}	14.9	X	74.12750	193.31951	161.14433	3.84849	0.2313642	0.23282891	2.6168457	21	—	—
41369 2000 AG_{100}	13.5	X	339.15721	321.61626	104.80260	8.00762	0.1166269	0.18161282	3.0881974	21	12 8.9	17.2
41370 2000 AA_{101}	14.0	X	173.86398	201.93062	107.29669	11.01268	0.0719356	0.19196404	2.9761590	21	—	—
41371 2000 AB_{101}	13.5	X	321.10649	322.98872	94.96451	14.12063	0.0468848	0.17804143	3.1293586	21	11 6.6	17.9
41372 2000 AC_{101}	14.0	X	114.91319	223.84006	105.63880	11.77456	0.1123123	0.18761799	3.0219438	21	—	—
41373 2000 AR_{101}	14.5	X	100.84693	303.37696	71.73184	11.39623	0.0888204	0.19135536	2.9824669	21	—	—
41374 2000 AW_{101}	14.9	X	139.65050	242.40649	90.11859	9.01399	0.2092670	0.23915741	2.5704756	21	—	—
41375 2000 AD_{102}	13.9	X	211.78567	180.23101	106.21613	10.49631	0.0308505	0.19305067	2.9649805	21	1 3.7	18.2
41376 2000 AT_{103}	14.0	X	77.84757	233.23141	115.02848	10.19262	0.1455458	0.18398999	3.0615398	21	—	—
41377 2000 AB_{104}	13.9	X	92.34243	114.40494	129.43487	8.71859	0.0305728	0.17030010	3.2234884	21	9 17.4	18.5
41378 2000 AP_{105}	14.3	X	25.85480	270.34909	122.39426	11.64216	0.1127142	0.18073508	3.0981878	21	—	—
41379 2000 AS_{105}	11.4	X	311.03874	343.06266	104.95722	25.93333	0.0611111	0.08510400	5.1188148	21	11 17.0	18.3
41380 2000 AM_{113}	13.4	X	84.68314	214.77002	139.02014	11.36504	0.1852510	0.18160888	3.0882420	21	—	—
41381 2000 AG_{117}	13.9	X	31.08510	185.49122	147.35494	10.07876	0.2816597	0.21812474	2.7331665	21	12 3.2	17.5
41382 2000 AV_{124}	13.4	X	26.41861	223.46976	141.86504	18.33401	0.1338636	0.17326000	3.1866706	21	12 7.4	17.9
41383 2000 AH_{138}	13.2	X	276.51689	70.29849	49.92902	22.93474	0.1844358	0.18066029	3.0990428	21	11 3.1	17.2
41384 2000 AJ_{138}	14.1	X	330.83533	359.63352	96.01392	5.02754	0.1323965	0.18519223	3.0482754	21	—	—
41385 2000 AQ_{138}	14.4	X	120.22133	305.70306	64.80620	23.24357	0.1093515	0.24083903	2.5584964	21	—	—
41386 2000 AD_{140}	14.3	X	298.27221	227.83564	135.51399	7.43609	0.1650531	0.21585569	2.7522869	21	7 5.5	17.7
41387 2000 AE_{140}	14.1	X	139.84683	245.53756	101.04747	12.57085	0.2384008	0.19429293	2.9523288	21	1 17.6	18.7
41388 2000 AJ_{140}	14.3	X	226.29595	276.30499	86.95675	11.20671	0.0512941	0.20659141	2.8339654	21	4 26.3	18.5
41389 2000 AM_{140}	14.3	X	242.53868	190.25310	199.09016	9.07310	0.1690640	0.21181012	2.7872221	21	6 2.0	18.8
41390 2000 AX_{145}	14.3	X	267.95707	177.94644	227.40579	6.63753	0.2091212	0.21741776	2.7390883	21	7 13.2	18.4
41391 2000 AX_{148}	13.8	X	309.39199	176.25590	176.95654	9.41804	0.1632831	0.21367882	2.7709482	21	7 8.5	17.2
41392 2000 AA_{149}	13.8	X	154.22518	221.70072	137.32375	11.58213	0.0688226	0.19323959	2.9630477	21	1 28.8	18.1
41393 2000 AV_{151}	14.9	X	123.82836	261.06433	87.27972	7.26604	0.2350711	0.28593531	2.2818698	21	—	—
41394 2000 AW_{162}	14.2	X	283.79551	230.86096	109.51753	8.93232	0.2326471	0.21339485	2.7734058	21	5 9.4	18.3
41395 2000 AY_{169}	14.0	X	45.49238	143.88688	197.25983	10.79569	0.2465199	0.17992569	3.1074723	21	12 16.8	18.5
41396 2000 AG_{175}	13.0	X	222.00553	158.73112	207.35999	10.06319	0.2218285	0.20382987	2.8595048	21	4 12.2	17.9
41397 2000 AS_{175}	12.8	X	327.14562	135.00226	237.34977	13.89567	0.0672684	0.16895518	3.2405723	21	9 4.3	17.3
41398 2000 AH_{177}	13.8	X	232.54082	155.05765	129.09701	11.23513	0.0846818	0.19267218	2.9688623	21	1 21.8	18.3
41399 2000 AR_{177}	13.2	X	334.28192	276.09096	127.10308	17.38793	0.0931791	0.17415839	3.1757023	21	11 6.5	17.6
41400 2000 AR_{185}	14.2	X	4.33083	174.71251	187.49183	12.84406	0.1628702	0.22476995	2.6790278	21	11 12.2	17.2
41401 2000 AU_{186}	13.5	X	44.25851	260.39477	155.17877	10.57566	0.1201984	0.18830032	3.0146393	21	—	—
41402 2000 AV_{186}	13.4	X	290.97013	19.13507	116.79664	12.36784	0.0719674	0.18359152	3.0659681	21	12 25.7	17.4
41403 2000 AW_{186}	13.8	X	48.49889	233.74847	123.06998	12.07019	0.1116449	0.18240453	3.0792549	21	12 21.6	18.2
41404 2000 AG_{187}	14.3	X	79.01765	175.70775	198.00211	15.59212	0.1268547	0.23318678	2.6141676	21	—	—
41405 2000 AS_{187}	13.2	X	114.02443	149.18490	123.64593	14.58270	0.0712331	0.17841116	3.1250337	21	11 22.9	18.1
41406 2000 AD_{188}	12.9	X	110.61266	56.03927	221.47034	22.09146	0.2020058	0.17838764	3.1253083	21	11 29.9	18.2
41407 2000 AL_{188}	14.8	X	292.08317	210.11087	143.81909	13.90657	0.2290893	0.21324474	2.7747072	21	6 6.2	18.8
41408 2000 AV_{196}	13.4	X	74.81261	155.58393	171.06217	13.92135	0.1699690	0.17519405	3.1631745	21	12 21.0	18.4
41409 2000 AW_{199}	14.6	X	92.42767	222.56854	116.94945	13.41610	0.2913474	0.23494753	2.6010905	21	—	—
41410 2000 AD_{200}	14.2	X	323.75440	224.17430	100.48487	18.67280	0.1511584	0.21509468	2.7587749	21	6 25.9	17.2
41411 2000 AK_{200}	15.0	X	135.85292	221.60928	126.41829	13.99708	0.1595186	0.23958623	2.5674075	21	—	—
41412 2000 AO_{200}	14.3	X	164.78973	127.49856	128.99053	15.65676	0.0918798	0.23003844	2.6379655	21	12 30.4	18.4
41413 2000 AF_{210}	14.8	X	92.09046	173.24509	187.77519	0.84293	0.1003740	0.18506306	3.0496937	21	—	—
41414 2000 AC_{215}	14.3	X	171.51685	267.71448	89.42224	8.61662	0.1190608	0.19564267	2.9387343	21	2 20.6	18.9
41415 2000 AX_{230}	14.2	X	297.84337	166.54938	229.44738	18.26519	0.1411739	0.17075793	3.2177241	21	8 12.7	18.9
41416 2000 AF_{231}	14.9	X	315.39899	213.69901	207.27240	7.46155	0.1329176	0.21737842	2.7394188	21	10 29.6	17.9
41417 2000 AL_{233}	12.4	X	340.42733	328.05634	119.89300	1.72363	0.0424818	0.08335083	5.1903433	21	12 13.5	19.0
41418 2000 AR_{233}	13.6	X	182.86303	333.15869	66.17725	16.29983	0.1349144	0.20570718	2.8420807	21	4 25.1	18.3
41419 2000 AW_{234}	13.3	X	223.12955	355.39599	165.44510	3.61377	0.0592732	0.12649197	3.9303156	21	10 27.3	19.0
41420 2000 AQ_{240}	14.8	X	0.10949	172.00438	193.88420	13.66764	0.1840721	0.22257615	2.6966027	21	11 11.3	17.6
41421 2000 AZ_{240}	14.5	X	113.04182	165.62067	183.70909	13.74862	0.2948251	0.23571362	2.5954516	21	—	—
41422 2000 CB_{5}	13.9	X	98.79497	205.37256	157.62642	2.68114	0.2186977	0.18497987	3.0506079	21	—	—
41423 2000 CU_{24}	15.2	X	111.16488	336.77642	268.41624	2.84127	0.1234403	0.30235575	2.1984870	21	10 31.9	18.4
41424 2000 CK_{40}	14.7	X	167.02931	246.09022	126.17833	25.80255	0.0942366	0.36659854	1.9334913	21	2 1.9	16.7
41425 2000 CE_{77}	15.6	X	10.16004	356.77804	153.39853	6.57420	0.0590521	0.27622740	2.3350251	21	1 6.1	18.2
41426 2000 CJ_{140}	12.8	X	325.07273	315.24587	128.35290	1.51455	0.0694442	0.08045817	5.3140130	21	11 18.9	19.5
41427 2000 DY_{4}	12.4	X	334.87883	13.95980	68.40630	5.65514	0.0796987	0.08089143	5.2950214	21	11 29.2	19.0
41428 2000 EL_{85}	15.3	X	337.79854	280.61751	245.79197	6.27263	0.0502545	0.27508665	2.3414759	21	—	—
41429 2000 GE_{2}	20.5	X	174.47918	297.22567	351.92581	2.17331	0.5554119	0.49027848	1.5928474	21	—	—
41430 2000 GN_{4}	13.7	X	142.32065	222.81584	35.26155	15.84678	0.1403758	0.25605830	2.4560855	21	12 10.3	17.8
41431 2000 GY_{6}	15.7	X	266.12962	295.59735	37.86276	0.99883	0.2004355	0.28275163	2.2989665	21	4 6.8	18.8
41432 2000 GE_{35}	14.7	X	231.05564	115.59038	202.39984	12.29353	0.2766815	0.22647643	2.6655533	21	2 15.3	19.6
41433 2000 GY_{51}	14.6	X	320.56158	168.30959	187.80357	6.07519	0.0887937	0.29227444	2.2487551	21	8 15.1	16.7
41434 2000 GB_{82}	16.4	X	247.85730	338.53127	33.11014	14.14018	0.0614004	0.47131214	1.6352982	21	5 6.3	17.3
41435 2000 GQ_{89}	14.5	X	314.70111	145.15639	165.84215	12.65265	0.1922494	0.23707452	2.5855094	21	5 16.5	17.7
41436 2000 GJ_{95}	14.0	X	256.21280	108.43130	221.37774	13.76273	0.1267519	0.23242798	2.6198541	21	3 31.9	18.0
41437 2000 GT_{122}	13.5	X	159.05512	169.94844	227.49358	13.16950	0.1709318	0.23362364	2.6109077	21	3 21.4	17.8
41438 2000 GG_{124}	13.8	X	251.05512	58.79737	61.27871	14.14778	0.1055246	0.25372835	2.4710985	21	10 24.6	17.0
41439 2000 GO_{134}	15.0	X	52.85304	194.10042	84.95618	6.24564	0.1821859	0.29309310	2.2445657	21	10 19.7	17.7
41440 2000 HZ_{23}	19.8	X	227.15727	200.04476	64.05939	15.10553	0.2112655	0.49835355	1.5755941	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41441 2000 HK_{25}	14.2	X	110.03789	158.69807	216.72291	17.43888	0.1450150	0.21995965	2.7179452	21	—	—
41442 2000 JS_{51}	14.7	X	346.59038	318.93133	358.18866	6.40087	0.2145664	0.28531688	2.2851659	21	8 2.9	16.0
41443 2000 JD_{73}	14.7	X	3.29454	207.47669	124.29026	9.26479	0.2209921	0.24243563	2.5472510	21	10 10.4	17.0
41444 2000 JK_{76}	13.1	X	219.41461	298.16183	78.81876	11.37815	0.1298104	0.18490320	3.0514513	21	5 1.9	18.0
41445 2000 KF_{56}	15.2	X	199.94904	221.73555	107.00006	3.68091	0.2102169	0.26677231	2.3898770	21	2 4.6	19.2
41446 2000 LW	14.3	X	168.19511	184.13444	156.38572	9.78723	0.1569496	0.21308885	2.7760603	21	1 24.9	18.8
41447 2000 LK_{4}	14.4	X	59.94887	167.51579	146.06356	9.79933	0.2608368	0.24561492	2.5252219	21	12 13.1	18.3
41448 2000 LJ_{12}	13.3	X	108.31193	136.38140	259.80166	24.50165	0.1517809	0.21197125	2.7858095	21	1 20.2	17.4
41449 2000 LN_{12}	15.1	X	157.12349	159.94058	128.63827	5.44316	0.1622467	0.25706286	2.4496826	21	—	—
41450 Medkeff	16.1	X	279.53827	33.10653	191.95286	2.29300	0.1389857	0.26691036	2.3890529	21	—	—
41451 2000 LJ_{24}	14.2	X	36.45689	91.83279	177.32290	13.30371	0.1518814	0.23884615	2.5727083	21	8 23.9	17.3
41452 2000 LD_{29}	14.4	X	280.35448	259.67338	124.36753	7.25807	0.2576169	0.23039995	2.6352054	21	6 24.4	18.2
41453 2000 MJ_{4}	13.6	X	282.50435	4.49639	270.06168	12.81584	0.1443184	0.22614043	2.6681930	21	2 14.9	17.9
41454 2000 MQ_{5}	15.9	X	127.02279	246.22439	97.83968	7.85236	0.2279163	0.30125928	2.2038182	21	—	—
41455 2000 NC	13.8	X	357.58835	100.53302	304.83856	9.68039	0.3047753	0.24457524	2.5323733	21	—	—
41456 2000 NT	14.4	X	210.97575	146.91594	290.50446	19.36126	0.3069398	0.23013943	2.6371937	21	6 26.6	19.2
41457 2000 ND_{2}	15.6	X	225.71311	324.11263	42.09699	3.13199	0.1752445	0.31169729	2.1543389	21	4 10.3	18.8
41458 2000 NN_{14}	16.0	X	278.04975	26.19460	301.14324	3.89986	0.2460792	0.27272219	2.3549900	21	4 4.7	19.7
41459 2000 NO_{20}	15.7	X	341.95646	210.05082	141.23687	3.93442	0.2362793	0.23696619	2.5862974	21	9 12.0	17.5
41460 2000 NC_{28}	12.7	X	195.08835	173.08141	285.71975	9.13805	0.0206743	0.18623522	3.0368838	21	7 17.9	16.9
41461 2000 ON	14.1	X	200.93973	183.19531	151.46820	49.87903	0.1625647	0.21455169	2.7634276	21	2 17.3	18.6
41462 2000 OJ_{13}	13.9	X	258.52524	257.07849	123.31731	11.32058	0.0651511	0.18463224	3.0544359	21	6 21.3	18.4
41463 2000 OG_{21}	15.2	X	317.39337	305.84943	50.67332	4.40201	0.2043395	0.27767897	2.3268804	21	7 26.8	17.0
41464 2000 OL_{22}	16.1	X	32.51333	138.84581	157.73260	25.09856	0.1277709	0.37719444	1.8971101	21	10 22.9	18.2
41465 2000 OV_{22}	14.4	X	348.60240	357.55539	306.77136	3.75164	0.2463777	0.23534350	2.5981721	21	7 9.1	16.1
41466 2000 OW_{24}	14.3	X	352.08984	273.06272	96.37450	13.91358	0.1475261	0.24233834	2.5479327	21	11 6.3	17.1
41467 2000 OG_{29}	15.3	X	264.08519	53.13815	221.90089	6.42499	0.0910116	0.26644241	2.3918493	21	1 29.1	18.8
41468 2000 OS_{46}	15.4	X	178.85116	16.65280	317.29142	4.33873	0.2176329	0.25847086	2.4407783	21	1 25.6	19.4
41469 2000 OT_{49}	15.2	X	351.22212	7.83634	33.95541	6.56553	0.2687362	0.23816300	2.5776257	21	12 30.5	17.5
41470 2000 OK_{50}	15.6	X	256.43973	303.02824	84.62030	6.83107	0.1991485	0.27219883	2.3580077	21	6 8.7	18.9
41471 2000 OC_{51}	15.0	X	35.38215	161.45778	228.97977	4.57022	0.1738569	0.29134924	2.2535133	21	—	—
41472 2000 OA_{59}	14.2	X	307.28140	132.51531	315.46655	12.59804	0.1243984	0.24461753	2.5320814	21	11 25.9	17.2
41473 2000 PU_{9}	15.9	X	238.93590	59.85677	355.64504	1.98268	0.1976128	0.27416559	2.3467172	21	6 27.8	19.3
41474 2000 PE_{13}	14.9	X	13.81921	96.86752	221.25754	5.99720	0.1981009	0.28770285	2.2725142	21	10 10.9	16.8
41475 2000 PR_{13}	14.9	X	119.35024	228.68911	303.45794	23.17727	0.2774206	0.28425329	2.2908626	21	8 10.6	18.8
41476 2000 PC_{14}	15.1	X	313.13158	77.15851	299.86294	2.50187	0.1585553	0.23653564	2.5894348	21	8 21.6	17.8
41477 2000 PP_{26}	14.4	X	50.88166	187.53223	215.68683	12.99841	0.2293911	0.24582506	2.5237827	21	—	—
41478 2000 PR_{28}	14.2	X	286.56931	250.50116	74.46453	7.45457	0.1381984	0.26992799	2.3712141	21	4 30.3	17.2
41479 2000 QQ_{27}	15.6	X	262.02224	267.31790	154.95015	4.30431	0.2262726	0.27766833	2.3269398	21	7 28.6	18.6
41480 2000 QZ_{29}	13.8	X	284.57434	250.06631	120.09353	6.54433	0.1837788	0.18092781	3.0959873	21	6 23.1	18.2
41481 Musashifuchu	15.5	X	49.82052	181.10242	209.32630	5.75774	0.1430168	0.29383734	2.2407740	21	—	—
41482 2000 QF_{37}	14.4	X	253.91642	265.41240	182.67141	2.14211	0.0364214	0.19018989	2.9946386	21	9 14.1	18.4
41483 2000 QD_{41}	14.8	X	220.28317	309.70841	166.71073	8.33482	0.0898056	0.23601609	2.5932336	21	9 6.2	18.4
41484 2000 QB_{44}	15.7	X	262.55900	277.55562	152.83464	6.93408	0.1835158	0.28064102	2.3104786	21	8 16.7	18.4
41485 2000 QF_{51}	15.5	X	354.52955	250.76623	131.57197	2.74069	0.1586462	0.28709124	2.2757406	21	12 7.4	17.5
41486 2000 QQ_{62}	14.4	X	26.21231	164.31309	84.65491	5.95574	0.0981192	0.18102845	3.0948397	21	7 2.1	18.3
41487 2000 QL_{64}	15.5	X	141.19407	32.38590	39.05437	9.23866	0.2484929	0.26263685	2.4148988	21	4 24.7	19.4
41488 Sindbad	12.5	X	139.44008	312.30374	148.52941	9.62109	0.1524342	0.12579408	3.9448387	21	5 29.7	18.7
41489 2000 QL_{73}	16.7	X	108.69283	167.68353	166.04179	3.60959	0.1257253	0.29740892	2.2227983	21	—	—
41490 2000 QX_{75}	15.5	X	275.36161	156.20847	230.64702	0.59342	0.0744268	0.23037350	2.6354070	21	7 19.8	18.9
41491 2000 QK_{80}	15.4	X	58.54678	125.41988	337.66352	7.43580	0.0791609	0.30509921	2.1852879	21	1 10.3	17.5
41492 2000 QC_{89}	15.2	X	13.03383	185.86254	210.55258	5.16127	0.1971923	0.29053640	2.2577145	21	—	—
41493 2000 QO_{101}	15.2	X	0.10074	356.81427	54.02595	5.30209	0.2972001	0.24044814	2.5612685	21	—	—
41494 2000 QX_{111}	15.7	X	262.09893	78.84196	339.87089	4.92272	0.1069812	0.27889087	2.3201346	21	8 12.9	18.6
41495 2000 QH_{117}	15.2	X	54.93752	234.57206	187.70905	5.48977	0.0867957	0.29317296	2.2441581	21	—	—
41496 2000 QB_{118}	15.2	X	316.51516	71.07361	265.80180	4.04280	0.1665747	0.27716300	2.3297673	21	6 27.1	17.2
41497 2000 QC_{128}	15.2	X	332.25089	240.30234	157.06294	1.81487	0.1811737	0.28202802	2.3028971	21	11 14.3	16.6
41498 2000 QK_{128}	15.3	X	223.46760	351.90474	72.18455	1.62992	0.1906269	0.26998832	2.3708608	21	6 24.3	19.1
41499 2000 QH_{143}	14.6	X	347.96204	269.94724	11.67543	4.44524	0.1387555	0.17980986	3.1088066	21	6 10.3	18.2
41500 2000 QO_{143}	14.4	X	68.30687	40.37698	166.98813	8.35601	0.1768787	0.22648260	2.6655049	21	7 21.5	17.9
41501 2000 QA_{146}	15.2	X	241.99613	101.83740	24.96810	9.81487	0.1503644	0.28323950	2.2963258	21	10 14.3	17.8
41502 Denchukun	15.5	X	285.60325	156.91186	224.64296	5.03523	0.2763298	0.27706798	2.3303000	21	6 23.7	18.5
41503 2000 QG_{148}	16.1	X	342.27486	120.92340	196.62244	22.17259	0.1310705	0.37395558	1.9080483	21	7 22.0	18.1
41504 2000 QY_{148}	16.5	X	314.45891	328.00976	5.95237	21.23080	0.0491258	0.37343372	1.9098255	21	7 15.6	18.8
41505 2000 QP_{150}	14.7	X	20.30777	115.40694	301.33294	5.42659	0.2642863	0.24286682	2.5442352	21	—	—
41506 2000 QD_{151}	15.3	X	213.36991	132.13201	243.63685	3.34224	0.1450345	0.31180311	2.1538515	21	4 9.7	18.4
41507 2000 QU_{157}	14.4	X	254.49355	101.11247	270.22428	8.04885	0.0638489	0.17952339	3.1121130	21	6 4.3	19.0
41508 2000 QY_{160}	14.3	X	64.97033	87.90178	214.75854	8.86362	0.0307497	0.19307884	2.9646921	21	10 26.5	18.3
41509 2000 QL_{169}	15.0	X	222.18062	290.54235	215.09117	4.46433	0.1173893	0.23869017	2.5738290	21	10 13.2	18.5
41510 2000 QU_{171}	14.2	X	349.07966	125.62040	235.24325	13.57777	0.1276184	0.22935604	2.6431954	21	10 4.1	17.2
41511 2000 QC_{174}	13.8	X	202.76668	182.77211	290.14327	5.54113	0.1866423	0.23163000	2.6258677	21	8 5.9	18.0
41512 2000 QV_{179}	15.3	X	64.63810	16.06669	48.03774	2.64660	0.0584807	0.20645476	2.8352158	21	—	—
41513 2000 QL_{180}	15.0	X	222.91019	52.18442	350.94449	5.18312	0.1830467	0.26553959	2.3972677	21	5 26.5	18.8
41514 2000 QR_{180}	13.9	X	190.35954	356.18772	46.40692	8.91988	0.2228546	0.21359274	2.7716926	21	5 1.1	18.7
41515 2000 QL_{181}	15.6	X	51.68923	60.97097	311.88500	4.18586	0.1608399	0.28657269	2.2784850	21	—	—
41516 2000 QN_{181}	14.2	X	342.33605	79.14069	43.55041	13.73087	0.1252109	0.24064697	2.5598575	21	—	—
41517 2000 QK_{182}	14.5	X	309.01766	177.94332	268.96640	8.84063	0.0589302	0.23392278	2.6086814	21	11 30.7	17.8
41518 2000 QD_{196}	14.9	X	290.79373	326.48092	84.44097	3.89720	0.1609445	0.18553419	3.0445288	21	8 29.5	18.8
41519 2000 QH_{196}	15.0	X	345.07706	293.36634	39.07305	5.27788	0.0484326	0.23261287	2.6184657	21	8 24.0	18.2
41520 2000 QG_{207}	15.2	X	314.30390	255.79377	177.16206	13.91112	0.1658958	0.23839133	2.5759796	21	11 19.1	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41521 2000 QL_{207}	15.0	X	15.63909	215.14752	174.83730	2.60921	0.1629186	0.24191347	2.5509152	21	—	—
41522 2000 QX_{211}	15.2	X	349.46008	157.93840	330.49292	4.21083	0.0564100	0.20630821	2.8365583	21	—	—
41523 2000 QD_{217}	14.8	X	69.04550	46.57489	153.10245	9.28359	0.0556194	0.22492846	2.6777690	21	6 23.9	18.5
41524 2000 QU_{217}	14.2	X	16.24885	348.44933	35.93228	9.99760	0.0703594	0.18710247	3.0274922	21	12 6.7	18.3
41525 2000 QP_{218}	16.0	X	307.23538	263.35908	325.40050	1.66500	0.1391958	0.26628230	2.3928080	21	1 15.8	19.3
41526 2000 QW_{221}	15.0	X	233.59778	47.76228	5.12308	13.23574	0.2987623	0.22632128	2.6667714	21	6 10.6	19.9
41527 2000 QX_{221}	15.3	X	294.04364	322.66798	87.59941	7.61242	0.1816166	0.28238338	2.3009647	21	9 12.2	17.6
41528 2000 RN_{4}	15.1	X	200.34154	252.55071	145.06698	7.09450	0.1549379	0.26474228	2.4020784	21	5 2.9	18.9
41529 2000 RC_{6}	15.4	X	177.46456	229.44808	187.41312	6.68186	0.0963581	0.26440116	2.4041440	21	5 2.2	18.9
41530 2000 RD_{9}	14.9	X	345.21936	180.74991	207.28317	2.64249	0.1720591	0.28071300	2.3100836	21	11 27.3	16.7
41531 2000 RN_{9}	14.9	X	340.86571	299.21813	105.19131	4.43940	0.1724356	0.23394051	2.6085496	21	11 29.1	17.4
41532 2000 RO_{9}	14.7	X	298.06184	301.37991	165.65667	4.82020	0.1691554	0.23447097	2.6046137	21	12 2.8	17.3
41533 2000 RV_{9}	15.2	X	134.06843	18.24990	55.21015	3.00531	0.1752408	0.25670146	2.4519813	21	4 13.9	18.8
41534 2000 RX_{9}	14.6	X	240.71990	292.99965	207.50184	6.26107	0.0547654	0.27918796	2.3184884	21	11 15.1	17.3
41535 2000 RL_{10}	14.7	X	316.49898	353.07414	60.37143	2.25218	0.2413504	0.23102202	2.6304727	21	10 14.3	16.6
41536 2000 RJ_{15}	15.3	X	22.78898	120.05171	222.02993	5.50748	0.2159738	0.28667076	2.2779654	21	12 6.2	17.7
41537 2000 RS_{15}	15.4	X	13.91588	63.87839	250.64613	6.33373	0.1534766	0.28261536	2.2997054	21	9 24.6	17.5
41538 2000 RC_{30}	14.5	X	13.53041	175.64768	189.39502	18.07348	0.2003476	0.23919512	2.5702054	21	12 9.8	17.8
41539 2000 RA_{32}	15.8	X	339.11937	198.62577	262.73586	6.32916	0.1128891	0.29273941	2.2463733	21	—	—
41540 2000 RT_{38}	15.5	X	33.91556	310.97987	79.88932	1.04257	0.1573093	0.23961554	2.5671982	21	—	—
41541 2000 RV_{38}	15.4	X	345.59953	306.02582	67.54839	0.77360	0.2386745	0.28112166	2.3078443	21	11 12.5	16.4
41542 2000 RZ_{38}	14.5	X	71.68238	157.09107	261.79925	7.24686	0.1256335	0.29421899	2.2388358	21	—	—
41543 2000 RU_{40}	13.7	X	251.63759	178.47325	323.01996	12.86503	0.0908085	0.23972343	2.5664278	21	11 13.1	17.3
41544 2000 RD_{41}	14.9	X	117.83046	168.31019	275.06594	6.84795	0.2617064	0.21168320	2.7883361	21	4 19.6	19.3
41545 2000 RA_{43}	13.2	X	178.97873	5.33945	217.70923	15.72159	0.1074530	0.24181102	2.5516356	21	12 4.9	17.1
41546 2000 RZ_{45}	15.0	X	2.61796	150.21595	250.15393	4.91209	0.1588357	0.28664511	2.2781012	21	—	—
41547 2000 RA_{46}	15.1	X	329.53375	168.92820	246.71618	5.51606	0.0950561	0.28403285	2.2920478	21	12 3.0	17.0
41548 2000 RG_{46}	14.5	X	297.29632	176.36533	245.89303	5.00863	0.2616561	0.23123197	2.6288802	21	9 8.1	17.4
41549 2000 RN_{46}	15.2	X	270.73467	9.31359	343.38576	5.83321	0.1655023	0.26969894	2.3725564	21	5 10.3	18.6
41550 2000 RO_{46}	15.3	X	231.28044	83.65987	288.50084	2.91131	0.1401432	0.31384668	2.1444916	21	4 23.2	18.4
41551 2000 RN_{50}	15.5	X	15.23253	115.18800	226.75169	2.75687	0.1867665	0.28187949	2.3037060	21	11 17.4	17.7
41552 2000 RS_{52}	15.9	X	276.03446	225.86102	159.71526	3.06511	0.1930538	0.27138434	2.3627233	21	6 30.0	18.9
41553 2000 RT_{52}	15.2	X	277.54630	338.74519	91.61372	4.22131	0.2125339	0.22731615	2.6589848	21	8 31.6	18.6
41554 2000 RH_{53}	14.1	X	322.63450	194.47155	184.96796	8.59156	0.1108322	0.18291633	3.0735083	21	9 10.1	17.9
41555 2000 RT_{53}	15.2	X	6.27850	170.36643	225.38649	5.52756	0.0924921	0.28343017	2.2952958	21	—	—
41556 2000 RC_{54}	14.5	X	199.41290	71.15869	87.19732	6.05877	0.0590452	0.27657300	2.3330795	21	10 17.7	17.6
41557 2000 RJ_{54}	15.5	X	201.82329	150.70512	191.60992	5.71642	0.1151250	0.25609539	2.4558484	21	2 19.5	19.2
41558 2000 RG_{57}	15.5	X	28.26043	166.04017	206.45098	6.33219	0.1286436	0.28872833	2.2671301	21	—	—
41559 2000 RD_{60}	14.9	X	261.03843	295.14938	170.80766	7.46275	0.1465336	0.27939658	2.3173341	21	10 12.9	17.6
41560 2000 RF_{66}	15.6	X	116.97431	329.84732	98.65121	5.05346	0.1321334	0.30477905	2.1868180	21	3 6.4	18.1
41561 2000 RQ_{66}	14.7	X	322.37940	340.23255	120.79419	5.33047	0.1281336	0.28767255	2.2726738	21	—	—
41562 2000 RR_{67}	15.4	X	188.55243	258.09004	143.05901	2.65420	0.2114155	0.26322333	2.4113104	21	4 25.7	19.5
41563 2000 RL_{71}	14.8	X	280.30002	57.73494	55.08247	3.23940	0.1113849	0.23850416	2.5751671	21	11 17.6	17.8
41564 2000 RX_{71}	14.8	X	323.98090	240.13654	198.81983	7.70843	0.1128293	0.28570301	2.2831065	21	12 28.4	17.1
41565 2000 RJ_{72}	15.9	X	295.04673	322.90925	25.93689	2.17430	0.1554094	0.32011023	2.1164256	21	6 8.2	17.9
41566 2000 RU_{72}	15.6	X	56.03344	220.11202	177.52243	2.82377	0.1384576	0.29290071	2.2455485	21	—	—
41567 2000 RN_{73}	13.6	X	319.31638	129.93496	168.95093	7.62481	0.0120948	0.17479082	3.1680375	21	6 3.2	18.1
41568 2000 RU_{73}	15.2	X	183.38812	198.73734	210.67803	6.03953	0.1002496	0.26442983	2.4039702	21	4 27.9	18.5
41569 2000 RC_{74}	14.6	X	300.87375	295.56527	209.10811	5.70069	0.0964856	0.29068317	2.2569544	21	—	—
41570 2000 RW_{75}	15.3	X	10.49056	116.42328	260.45905	6.49437	0.1262493	0.28533462	2.2850712	21	12 20.8	17.8
41571 2000 RT_{81}	15.0	X	323.18161	342.03242	267.26787	9.37245	0.0849333	0.26738919	2.3861999	21	3 7.8	18.1
41572 2000 RL_{92}	15.4	X	352.26579	128.90167	323.91679	6.10134	0.0677378	0.29212909	2.2495009	21	—	—
41573 2000 RB_{99}	15.0	X	293.38955	192.13013	248.71059	11.74777	0.2535755	0.23543752	2.5974803	21	9 27.3	18.0
41574 2000 SQ_{1}	15.6	X	97.25489	279.02697	65.17384	25.77442	0.1287212	0.38970243	1.8562963	21	—	—
41575 2000 ST_{1}	15.5	X	330.98135	212.55296	198.74525	5.05519	0.1507930	0.28486785	2.2875666	21	12 3.2	17.3
41576 2000 SF_{2}	14.0	X	273.27736	229.48968	112.90352	17.59905	0.2696753	0.17829905	3.1263435	21	5 3.1	19.2
41577 2000 SV_{2}	14.7	X	229.48556	162.69524	41.00563	24.97836	0.1847831	0.39075924	1.8529479	21	—	—
41578 2000 SE_{3}	16.0	X	186.35578	310.47925	15.68582	19.69255	0.0797097	0.35336281	1.9814760	21	—	—
41579 2000 SG_{20}	15.0	X	129.20521	202.19125	248.98362	5.59282	0.1015323	0.26320129	2.4114451	21	4 19.8	18.2
41580 2000 SV_{22}	14.7	X	347.04118	19.54126	34.91697	14.58198	0.1741865	0.23912233	2.5707270	21	12 26.5	17.5
41581 2000 SY_{22}	15.0	X	336.11494	211.96796	206.64341	6.61859	0.1837153	0.23784958	2.5798896	21	12 11.6	17.4
41582 2000 SL_{27}	14.5	X	93.12974	194.43931	296.79613	11.31083	0.1183229	0.21753485	2.7381054	21	4 30.9	18.4
41583 2000 SP_{34}	13.4	X	58.21981	261.91812	325.38603	15.79240	0.0568384	0.17814833	3.1281067	21	7 19.2	17.8
41584 2000 SL_{35}	15.4	X	0.87234	328.33148	135.98444	2.84179	0.0330290	0.20307206	2.8666143	21	—	—
41585 2000 ST_{37}	13.7	X	156.88624	24.86239	100.51338	6.29039	0.1123600	0.17653810	3.1470991	21	7 9.8	18.6
41586 2000 SH_{38}	16.1	X	239.06033	27.88945	15.22460	7.36274	0.1218139	0.27293584	2.3537609	21	6 18.2	19.5
41587 2000 SX_{38}	15.7	X	180.07499	48.66400	54.61914	5.43245	0.1796612	0.27064704	2.3670124	21	7 5.9	19.4
41588 2000 SC_{46}	13.2	X	169.79508	274.80891	247.26592	20.06695	0.3218541	0.27481760	2.3430040	21	8 30.6	18.1
41589 2000 SJ_{46}	13.6	X	31.38399	53.33895	286.36423	13.73235	0.1393199	0.23673418	2.5879869	21	11 19.9	17.1
41590 2000 SZ_{50}	15.1	X	140.59309	252.91352	237.29583	3.91999	0.0636871	0.22445078	2.6815669	21	6 24.5	19.0
41591 2000 SL_{52}	13.9	X	340.51265	173.27609	267.44531	12.13114	0.1496593	0.24036784	2.5618388	21	—	—
41592 2000 ST_{53}	14.7	X	312.68719	332.93343	229.47419	2.61865	0.0335696	0.21050688	2.7987140	21	1 15.1	18.6
41593 2000 SH_{58}	15.3	X	28.29759	234.44863	183.77546	1.77537	0.0692589	0.19993402	2.8965315	21	—	—
41594 2000 SG_{63}	15.9	X	106.71642	273.01412	161.77693	5.60287	0.2347307	0.25729166	2.4482301	21	3 23.1	19.0
41595 2000 SV_{66}	15.7	X	164.64894	351.92073	102.83973	3.47347	0.1763729	0.26753874	2.3853106	21	6 10.1	19.4
41596 2000 SW_{67}	15.1	X	280.62026	329.79014	177.68042	13.06189	0.1004655	0.24423980	2.5346914	21	—	—
41597 2000 ST_{72}	15.1	X	197.81424	15.96967	62.48937	4.08693	0.0935980	0.27059389	2.3673223	21	6 21.7	18.5
41598 2000 SL_{74}	15.5	X	113.48089	341.40325	108.64609	5.68993	0.1593379	0.26001461	2.4311078	21	4 11.8	18.7
41599 2000 SV_{75}	15.2	X	191.42791	186.63983	169.16704	7.70363	0.0650324	0.21234051	2.7825788	21	3 3.1	19.3
41600 2000 SJ_{76}	15.5	X	275.00689	343.38955	94.04271	4.28665	0.1210479	0.27974735	2.3153966	21	9 28.4	18.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41601 2000 SH_{78}	15.8	X	159.44347	334.35854	189.29369	0.99121	0.1746700	0.27770661	2.3267260	21	9 3.3	19.2
41602 2000 SA_{81}	15.8	X	163.56065	52.00840	49.89901	4.29308	0.1417965	0.26852614	2.3794596	21	6 16.7	19.3
41603 2000 SN_{102}	16.1	X	70.01566	223.61164	223.63875	2.79171	0.0602429	0.30347669	2.1930700	21	1 4.2	18.3
41604 2000 SO_{104}	15.7	X	301.96586	187.61911	190.62806	2.72295	0.1623991	0.27774665	2.3265024	21	8 4.4	17.8
41605 2000 SV_{106}	16.4	X	19.00339	197.45770	209.20564	3.59512	0.1393168	0.29083002	2.2561946	21	—	—
41606 2000 SO_{108}	15.5	X	333.76947	270.68950	187.32540	2.56318	0.1111319	0.29086531	2.2560121	21	—	—
41607 2000 SJ_{113}	15.2	X	229.09165	359.58119	120.87086	1.60183	0.1921377	0.27792884	2.3254855	21	9 14.2	18.3
41608 2000 SS_{114}	15.4	X	149.35646	41.21948	22.02816	9.42254	0.1920452	0.21382280	2.7697041	21	4 19.5	19.8
41609 2000 SR_{117}	15.7	X	238.35689	1.75340	59.38841	4.20896	0.2009174	0.27251208	2.3562003	21	7 4.6	19.4
41610 2000 SR_{119}	15.9	X	327.58321	55.16392	71.87653	5.09716	0.0730793	0.29337696	2.2431176	21	—	—
41611 2000 SY_{120}	15.2	X	14.22394	6.47517	54.75320	5.85243	0.2758648	0.24225294	2.5485316	21	—	—
41612 2000 SO_{124}	14.0	X	177.01569	311.86851	117.26176	2.78071	0.1060727	0.17001801	3.2270530	21	5 22.3	19.0
41613 2000 SP_{144}	14.0	X	253.12117	345.37997	351.64524	4.82648	0.1444095	0.17236785	3.1976570	21	4 11.7	19.0
41614 2000 SX_{145}	15.6	X	72.09498	109.28230	4.68853	5.46104	0.0746411	0.30599044	2.1810426	21	2 19.3	17.6
41615 2000 SM_{149}	15.8	X	39.57047	44.58527	25.80012	5.09658	0.1376947	0.29516238	2.2340628	21	—	—
41616 2000 SP_{149}	15.7	X	351.19710	240.52950	182.37908	2.76318	0.1185659	0.28816339	2.2700923	21	—	—
41617 2000 SK_{151}	15.7	X	351.19052	345.82894	54.79026	0.61608	0.1126192	0.28569859	2.2831300	21	12 21.3	18.0
41618 2000 SU_{151}	15.1	X	133.57553	269.84425	165.69775	2.12685	0.1585970	0.26043266	2.4285055	21	4 13.7	18.6
41619 2000 SM_{153}	16.1	X	350.89813	9.61650	76.33870	1.47122	0.1161798	0.29038817	2.2584827	21	—	—
41620 2000 SU_{160}	14.7	X	25.59443	38.67702	17.68909	1.60338	0.1822045	0.23886023	2.5726072	21	—	—
41621 2000 SY_{161}	14.5	X	233.56072	254.27499	90.69187	11.95695	0.2175609	0.26602181	2.3943698	21	3 29.3	18.7
41622 2000 SP_{166}	15.1	X	100.18418	97.02013	336.65122	9.44359	0.1929653	0.25621065	2.4551117	21	3 4.5	18.0
41623 2000 SN_{167}	14.1	X	267.40961	215.06297	216.99700	12.98199	0.2298983	0.22943756	2.6425692	21	8 10.8	18.1
41624 2000 SU_{167}	15.4	X	218.34827	167.85323	324.38919	6.27145	0.1343404	0.27906777	2.3191540	21	9 21.6	18.8
41625 2000 SA_{168}	15.5	X	256.88838	225.55802	250.06096	5.00106	0.0982807	0.28257256	2.2999376	21	10 25.9	18.1
41626 2000 SQ_{170}	15.0	X	115.85117	343.11048	27.75692	12.16664	0.0662561	0.20285388	2.8686694	21	—	—
41627 2000 SK_{171}	14.8	X	261.10677	312.06089	27.62508	5.37216	0.0663841	0.21839840	2.7308829	21	4 29.5	18.6
41628 2000 SW_{176}	15.8	X	102.16797	161.69159	294.26963	5.51057	0.0993511	0.25847265	2.4407670	21	3 20.2	18.9
41629 2000 SA_{177}	15.0	X	248.95572	269.77660	237.64148	11.61447	0.1855138	0.23590909	2.5940177	21	11 6.4	18.5
41630 2000 SM_{185}	15.8	X	63.56079	144.39819	340.61801	2.17080	0.1550546	0.25888625	2.4381667	21	3 10.5	18.0
41631 2000 SN_{185}	16.1	X	252.64005	126.72589	0.64247	4.17087	0.1375191	0.28425321	2.2908631	21	10 30.2	18.8
41632 2000 SL_{204}	15.1	X	279.28172	310.20450	194.84211	1.59528	0.0354231	0.19605460	2.9346165	21	12 27.5	19.0
41633 2000 SR_{216}	15.4	X	204.30965	34.91015	80.25462	7.56220	0.0685849	0.27549196	2.3391789	21	8 24.7	18.6
41634 2000 SO_{218}	14.6	X	24.96215	191.79547	108.93515	8.89270	0.0724407	0.23042917	2.6349826	21	9 13.7	17.9
41635 2000 SE_{220}	14.5	X	60.11926	348.18900	134.64019	8.77978	0.1815424	0.25490042	2.4635177	21	3 7.4	16.7
41636 2000 SZ_{220}	14.6	X	127.78898	153.00867	120.59482	10.54988	0.0579954	0.23981795	2.5657535	21	12 14.8	18.3
41637 2000 SA_{225}	15.6	X	250.93128	219.31768	16.45278	6.48518	0.1059809	0.25320695	2.4744896	21	—	—
41638 2000 SS_{225}	15.5	X	250.84802	229.91327	139.09584	7.94265	0.1143926	0.26813690	2.3817618	21	5 20.1	18.9
41639 2000 SD_{227}	15.0	X	240.31338	300.04864	82.88670	9.79755	0.2398029	0.26816557	2.3815921	21	5 15.9	19.0
41640 2000 SJ_{227}	15.5	X	150.00509	276.72901	178.90104	4.31579	0.1767103	0.21701490	2.7424771	21	5 30.5	19.9
41641 2000 SV_{229}	15.6	X	140.59048	270.72838	190.10774	2.20665	0.1449316	0.26404796	2.4062874	21	5 23.1	19.1
41642 2000 SK_{230}	15.9	X	136.88857	200.69830	253.01497	0.25834	0.2149300	0.26183373	2.4198344	21	5 15.9	19.7
41643 2000 SH_{268}	15.8	X	273.82169	157.18217	42.33553	6.20862	0.0903850	0.29642997	2.2276894	21	—	—
41644 2000 SC_{269}	14.3	X	218.11845	120.03130	56.72484	13.26588	0.2016647	0.23624898	2.5915291	21	11 9.2	18.3
41645 2000 SD_{269}	15.6	X	270.59744	311.37179	104.45809	4.03659	0.1225235	0.22810190	2.6528750	21	8 15.5	19.0
41646 2000 SJ_{273}	16.2	X	323.43896	253.50112	237.03969	5.33404	0.0861293	0.29465839	2.2366095	21	—	—
41647 2000 ST_{275}	15.8	X	204.44061	287.74481	203.93531	10.94097	0.1440732	0.27450995	2.3447542	21	9 3.4	19.4
41648 2000 SP_{276}	15.0	X	293.81561	240.78787	221.29781	6.89777	0.1573303	0.23678651	2.5876056	21	11 19.3	17.7
41649 2000 SA_{279}	14.6	X	321.48311	69.31910	70.48638	4.07934	0.0958388	0.29045042	2.2581600	21	—	—
41650 2000 SU_{280}	15.7	X	142.49230	299.70385	137.20062	11.34464	0.2413189	0.26268607	2.4145972	21	5 6.1	19.8
41651 2000 ST_{293}	15.0	X	189.46401	51.70316	336.06592	8.52040	0.2271099	0.21451955	2.7637036	21	4 8.9	19.9
41652 2000 SA_{294}	14.9	X	227.26454	348.81699	11.81221	11.52474	0.2865355	0.26484221	2.4014741	21	4 3.5	19.2
41653 2000 SC_{294}	15.0	X	72.73515	19.81080	348.69361	6.57026	0.1530519	0.29149696	2.2527519	21	—	—
41654 2000 SE_{295}	15.1	X	70.91298	338.50905	17.83360	11.91035	0.0542948	0.28829747	2.2693884	21	—	—
41655 2000 SJ_{302}	16.0	X	45.78910	288.47192	235.89482	3.23563	0.0675080	0.30918571	2.1659900	21	3 17.6	17.9
41656 2000 SH_{303}	15.3	X	244.93867	251.77332	236.94669	4.38487	0.1873732	0.23406970	2.6075897	21	10 7.2	19.0
41657 2000 SN_{308}	14.5	X	109.42496	286.67155	293.50336	9.47742	0.0865311	0.18287186	3.0740066	21	9 8.6	19.2
41658 2000 SP_{319}	13.9	X	313.98371	91.06405	20.94728	13.40391	0.1432388	0.23723943	2.5843111	21	—	—
41659 2000 SP_{358}	14.5	X	25.87592	115.30880	139.49321	15.22645	0.0446711	0.22614467	2.6681597	21	7 5.3	18.0
41660 2000 SV_{362}	15.5	X	6.46404	136.03613	70.42520	23.95215	0.0300347	0.35887103	1.9611484	21	3 28.5	18.2
41661 2000 SK_{369}	15.8	X	194.97148	308.97056	289.29354	5.98903	0.0630338	0.29095194	2.2555643	21	—	—
41662 2000 TB	15.3	X	244.70976	333.49996	67.69449	3.28779	0.1941218	0.27007185	2.3703720	21	6 14.8	19.0
41663 2000 TK_{16}	16.2	X	28.99122	320.73815	186.30354	3.26127	0.0555428	0.30435088	2.1888685	21	1 23.7	18.5
41664 2000 TR_{16}	16.4	X	344.45496	244.48052	14.23178	2.47885	0.1380889	0.31563486	2.1363845	21	4 15.9	18.2
41665 2000 TH_{18}	16.0	X	226.02474	197.04426	8.30996	4.53765	0.0402715	0.29082758	2.2562072	21	—	—
41666 2000 TQ_{18}	15.8	X	133.36652	143.93565	304.04753	0.53622	0.1511478	0.26138875	2.4225800	21	4 28.0	19.1
41667 2000 TE_{19}	15.3	X	228.04242	317.68745	104.81162	5.90385	0.2110749	0.27295762	2.3536357	21	6 25.1	18.8
41668 2000 TP_{25}	14.9	X	247.06079	33.21282	54.28934	7.12001	0.1650648	0.27363332	2.3497594	21	8 27.5	18.1
41669 2000 TW_{28}	15.2	X	333.79867	74.35708	316.31789	5.23562	0.1302822	0.28134779	2.3066075	21	10 31.9	17.4
41670 2000 TC_{29}	13.2	X	203.98505	208.86715	266.67084	13.56085	0.1437280	0.17642016	3.1485016	21	8 6.8	18.4
41671 2000 TF_{34}	13.4	X	284.37272	359.49640	63.34389	18.50244	0.1891563	0.17610834	3.1522170	21	9 8.6	18.0
41672 2000 TX_{36}	15.0	X	245.15056	227.57339	225.01259	24.03884	0.0684861	0.37643505	1.8996606	21	9 14.4	17.4
41673 2000 TU_{39}	14.7	X	321.52525	37.94747	28.10177	14.02598	0.1420628	0.24039882	2.5616188	21	11 18.4	17.4
41674 2000 TV_{62}	15.9	X	258.71958	318.23211	132.51882	2.54943	0.1847265	0.27722231	2.3294350	21	9 10.4	18.8
41675 2000 UZ_{1}	14.5	X	112.58561	310.30915	119.28773	5.16515	0.2173170	0.25428511	2.4674901	21	3 22.8	17.8
41676 2000 UR_{2}	15.0	X	217.49328	53.36514	350.38142	2.46134	0.0201823	0.31389909	2.1442529	21	5 30.0	17.4
41677 2000 UD_{7}	15.1	X	316.26778	30.69343	56.96032	4.28762	0.1346352	0.28491300	2.2873250	21	12 28.0	17.0
41678 2000 UV_{7}	15.4	X	182.24088	91.45716	335.74528	0.94014	0.1568743	0.26481036	2.4016667	21	5 20.9	19.1
41679 2000 UC_{8}	15.3	X	270.55931	256.07083	184.97952	1.33511	0.1482364	0.27778342	2.3262971	21	9 18.9	17.9
41680 2000 UY_{8}	13.2	X	135.62258	199.65447	60.16918	9.77031	0.0741582	0.23678729	2.5875999	21	12 4.5	16.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41681 2000 UA_{10}	14.9	X	130.22405	266.95452	220.01205	8.56059	0.0476699	0.21671679	2.7449916	21	6 6.4	18.7
41682 2000 UP_{10}	14.1	X	268.04174	142.83151	231.42317	8.45678	0.1074798	0.17484798	3.1673470	21	6 18.5	18.7
41683 2000 UZ_{14}	16.0	X	233.58819	40.79411	25.40561	6.56458	0.0791239	0.27057791	2.3674155	21	7 21.0	19.2
41684 2000 UL_{15}	15.5	X	328.75932	126.89923	284.75941	1.97933	0.1471528	0.28147939	2.3058886	21	11 26.6	17.3
41685 2000 UG_{16}	15.5	X	96.98577	163.27483	57.11489	22.55783	0.0406940	0.37139728	1.9168004	21	9 25.9	18.2
41686 2000 UN_{16}	13.9	X	328.33012	147.94405	332.73711	6.46073	0.1560176	0.24142555	2.5543510	21	—	—
41687 2000 UY_{16}	15.5	X	252.60351	235.36391	225.31077	3.84183	0.0998876	0.27811308	2.3244584	21	9 27.5	18.3
41688 2000 UV_{18}	14.4	X	74.58743	304.81714	14.27378	9.90298	0.1049798	0.18936745	3.0033030	21	12 4.6	18.9
41689 2000 UW_{18}	15.4	X	247.84864	355.44075	302.56048	6.22048	0.0981612	0.30492566	2.1861170	21	2 4.6	18.5
41690 2000 UR_{19}	14.7	X	231.67333	50.42656	51.88301	23.17258	0.2710422	0.27437042	2.3455491	21	8 27.6	19.0
41691 2000 UF_{25}	15.4	X	335.87704	303.30771	182.11215	6.47487	0.1527761	0.24363754	2.5388668	21	—	—
41692 2000 UC_{27}	15.4	X	68.12996	38.80235	168.10228	5.99877	0.0535096	0.26741125	2.3860686	21	7 1.5	18.3
41693 2000 UU_{39}	15.4	X	52.12840	105.12657	59.42865	3.17072	0.0637088	0.30835362	2.1698848	21	4 1.5	17.4
41694 2000 UT_{41}	15.0	X	141.64891	265.42740	216.74027	2.19484	0.1065246	0.21810954	2.7332936	21	6 19.1	19.0
41695 2000 UN_{43}	15.8	X	282.59408	266.40945	191.27500	1.71582	0.1495344	0.23336608	2.6128284	21	10 25.2	18.6
41696 2000 UF_{45}	15.6	X	92.09068	0.85090	97.45612	3.15179	0.1316185	0.25606598	2.4560364	21	3 19.3	18.4
41697 2000 UJ_{46}	15.6	X	133.19540	115.70820	20.06938	2.81807	0.1255744	0.26555467	2.3971769	21	6 29.0	19.0
41698 2000 UO_{46}	15.4	X	197.58541	137.60064	243.86116	5.17862	0.1543666	0.26203799	2.4185768	21	4 5.3	19.4
41699 2000 UT_{46}	15.5	X	85.20055	28.67838	38.94322	4.27479	0.0987259	0.29936783	2.2130911	21	1 6.5	17.5
41700 2000 UV_{46}	15.3	X	290.98766	195.81657	250.17320	0.95095	0.0978208	0.23322059	2.6139149	21	10 29.2	18.4
41701 2000 UY_{46}	15.4	X	201.50678	238.30110	227.17977	2.87148	0.1853390	0.22237514	2.6982275	21	7 26.4	19.8
41702 2000 UN_{49}	14.6	X	152.69991	330.05800	162.60109	0.20227	0.1338756	0.17051448	3.2207860	21	7 15.4	19.5
41703 2000 UM_{50}	15.4	X	178.39121	114.65407	236.20967	5.24922	0.1496696	0.25491354	2.4634332	21	2 8.3	19.2
41704 2000 UX_{51}	15.3	X	269.03852	129.80961	244.16711	5.46654	0.1492504	0.27080607	2.3660856	21	6 11.3	18.4
41705 2000 UZ_{52}	14.7	X	227.22933	29.78497	65.52342	8.96825	0.0926620	0.27242716	2.3566900	21	8 23.9	18.0
41706 2000 UU_{53}	15.3	X	335.46762	169.72010	198.28002	6.60895	0.1382618	0.27874749	2.3209302	21	9 30.7	17.3
41707 2000 UU_{55}	15.1	X	300.17138	241.72724	102.84891	5.96360	0.2484993	0.27247058	2.3564395	21	5 27.8	17.8
41708 2000 UG_{56}	14.7	X	252.19910	252.44229	217.18245	13.79104	0.1129415	0.22917031	2.6446232	21	9 29.9	18.5
41709 2000 UH_{56}	13.7	X	250.79759	206.62425	228.55482	17.09213	0.1429618	0.22477683	2.6789731	21	8 4.9	17.9
41710 2000 UZ_{59}	15.7	X	282.29368	83.09793	331.82518	3.66976	0.1223794	0.27758303	2.3274165	21	9 3.1	17.9
41711 2000 US_{63}	15.2	X	60.59987	298.17042	241.63943	8.61307	0.1481796	0.26330709	2.4107991	21	5 25.7	17.8
41712 2000 UZ_{68}	15.2	X	259.96354	175.90338	353.66734	5.61798	0.0946032	0.28865267	2.2675263	21	—	—
41713 2000 UG_{72}	15.6	X	47.90034	356.54567	24.69915	6.28892	0.0573374	0.28947734	2.2632177	21	—	—
41714 2000 UO_{72}	15.7	X	305.98634	324.73197	183.92220	6.43342	0.0404992	0.29055963	2.2575941	21	—	—
41715 2000 UL_{73}	16.2	X	165.35047	225.63771	239.73795	2.40398	0.1461853	0.26724459	2.3870605	21	6 23.5	19.9
41716 2000 UP_{76}	15.6	X	12.72097	292.58934	37.42234	5.22179	0.1141822	0.27792581	2.3255024	21	10 14.7	17.7
41717 2000 UX_{78}	14.7	X	329.58402	91.86389	27.31915	4.10464	0.1380404	0.24139332	2.5545783	21	—	—
41718 2000 UK_{79}	15.7	X	196.01703	65.47597	248.25651	4.61351	0.1692133	0.30090862	2.2055300	21	1 5.7	19.1
41719 2000 UL_{79}	15.4	X	357.16836	82.95562	252.71905	5.51645	0.1457533	0.27696570	2.3308736	21	9 22.3	17.6
41720 2000 UN_{79}	15.1	X	192.50274	213.22514	247.13040	6.10130	0.0721945	0.26874894	2.3781443	21	7 15.3	18.4
41721 2000 UU_{79}	15.4	X	36.67779	358.81344	43.18530	4.81678	0.1310278	0.28942765	2.2634767	21	—	—
41722 2000 UD_{80}	15.1	X	133.34314	334.67668	251.75799	2.70494	0.1344745	0.27729430	2.3290318	21	10 28.0	18.6
41723 2000 UP_{80}	15.5	X	280.31865	2.35505	64.07535	6.66810	0.0861139	0.27760954	2.3272684	21	9 27.4	18.1
41724 2000 UV_{84}	15.8	X	266.80446	358.34628	166.61844	4.75829	0.0472962	0.29012628	2.2598416	21	—	—
41725 2000 UK_{86}	15.5	X	281.79988	0.94977	177.77958	5.24960	0.1436006	0.29239853	2.2481188	21	—	—
41726 2000 UP_{91}	16.2	X	47.84447	197.24005	282.36378	2.42679	0.1904632	0.25320193	2.4745223	21	2 1.6	18.2
41727 2000 UR_{91}	15.6	X	80.26734	255.85720	335.95299	3.73552	0.0837220	0.27527989	2.3403801	21	8 30.4	18.5
41728 2000 UF_{92}	15.6	X	115.84559	227.15809	259.26364	8.84114	0.1541472	0.26290219	2.4132737	21	5 30.0	18.9
41729 2000 UF_{95}	16.0	X	220.32909	120.17999	12.76113	7.25241	0.0600390	0.27840004	2.3228608	21	10 6.5	18.8
41730 2000 UF_{96}	15.8	X	103.45877	155.14638	333.31901	5.33475	0.0887824	0.26160181	2.4212644	21	5 5.1	19.0
41731 2000 UA_{97}	16.0	X	178.25193	84.38753	328.19502	2.75141	0.0527216	0.31058831	2.1594641	21	4 18.4	18.6
41732 2000 UU_{98}	14.9	X	203.86282	126.51938	316.32135	3.48634	0.2002366	0.22078643	2.7111557	21	6 30.6	19.4
41733 2000 UY_{98}	15.2	X	55.34883	220.21381	281.20786	4.96039	0.0396928	0.30504020	2.1855697	21	2 25.5	17.4
41734 2000 UL_{100}	15.2	X	250.90416	174.57305	12.80330	6.74438	0.1241309	0.28785230	2.2717276	21	—	—
41735 2000 UY_{100}	14.5	X	309.00462	120.40301	321.73695	4.15025	0.1212889	0.23467119	2.6031320	21	11 19.8	17.4
41736 2000 UN_{102}	15.0	X	156.48010	347.51350	274.99294	4.26300	0.0667610	0.28777311	2.2721443	21	—	—
41737 2000 UX_{103}	14.8	X	174.75841	254.19648	324.28432	6.49463	0.0782656	0.28204827	2.3027869	21	12 1.9	18.1
41738 2000 UR_{104}	15.2	X	128.26078	281.60567	295.43182	5.53285	0.1174608	0.27528950	2.3403256	21	10 7.5	18.7
41739 2000 UP_{112}	15.0	X	54.95042	221.04276	31.67003	4.69593	0.1822139	0.22621096	2.6676384	21	9 7.2	18.3
41740 Yuenkwokyung	14.7	X	0.78039	91.92582	73.54665	4.71082	0.0780640	0.30038843	2.2080755	21	1 4.8	17.1
41741 2000 VG	15.8	X	124.99552	309.87508	60.73039	2.41378	0.0215946	0.29707546	2.2244613	21	—	—
41742 Wongkakui	14.8	X	299.19518	341.45573	314.24241	2.23332	0.0781829	0.26338620	2.4103163	21	4 13.3	17.9
41743 2000 VJ_{14}	15.4	X	324.44651	214.96986	201.86681	5.00922	0.1776291	0.28227157	2.3015723	21	11 27.8	17.0
41744 2000 VA_{15}	16.2	X	187.09770	278.72852	80.88643	3.76823	0.2026390	0.30663409	2.1779894	21	2 27.9	19.5
41745 2000 VQ_{15}	15.3	X	265.25786	14.80926	198.61406	2.56437	0.0205374	0.29506909	2.2345337	21	—	—
41746 2000 VD_{16}	15.3	X	198.10590	254.09501	154.27351	3.53201	0.1207485	0.26465384	2.4026135	21	5 13.4	18.9
41747 2000 VY_{24}	16.1	X	173.81643	216.73994	16.49576	0.77922	0.0093665	0.28528320	2.2853458	21	12 28.6	18.9
41748 2000 VC_{27}	15.2	X	156.72943	103.12819	99.77952	6.40226	0.1107683	0.27771495	2.3266794	21	10 25.1	18.6
41749 2000 VD_{27}	15.5	X	26.54850	244.03422	128.13667	3.76670	0.1874145	0.28592358	2.2819322	21	—	—
41750 2000 VK_{28}	15.6	X	240.62578	277.71124	82.70129	7.18660	0.1430524	0.26455618	2.4032048	21	4 25.1	19.3
41751 2000 VT_{29}	14.8	X	180.09785	320.64160	106.72193	6.58943	0.0906026	0.26292038	2.4131624	21	5 19.6	18.3
41752 2000 VF_{30}	14.7	X	310.60689	196.66361	230.78713	12.35367	0.0645131	0.23121099	2.6290393	21	11 6.1	17.8
41753 2000 VH_{30}	14.8	X	267.15000	292.55800	119.92245	6.20632	0.1845204	0.27203139	2.3589751	21	7 28.3	17.7
41754 2000 VS_{31}	14.1	X	233.78851	359.64244	61.09561	5.88440	0.2625052	0.17380353	3.1800234	21	6 24.9	19.6
41755 2000 VY_{31}	15.1	X	351.96696	33.83043	61.27267	6.29489	0.0976643	0.24144383	2.5542220	21	—	—
41756 2000 VE_{33}	15.0	X	252.42943	335.95678	71.23225	5.98416	0.1209094	0.22265198	2.6959904	21	7 11.0	18.9
41757 2000 VM_{33}	15.6	X	206.77199	186.24338	211.89031	1.55769	0.1704285	0.26402245	2.4064424	21	5 6.9	19.2
41758 2000 VP_{33}	15.3	X	319.31576	330.88911	91.24618	2.59750	0.1373778	0.28100532	2.3084813	21	11 23.6	17.0
41759 2000 VZ_{33}	15.0	X	225.45363	338.73003	71.63628	2.60522	0.1274904	0.21954971	2.7213275	21	6 13.7	19.2
41760 2000 VF_{34}	14.2	X	292.67119	303.99149	215.38954	6.48878	0.0793609	0.28884259	2.2665322	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41761 2000 VP_{34}	15.5	X	116.83309	128.59937	220.72116	3.00105	0.2178137	0.29480458	2.2358701	21	—	—
41762 2000 VZ_{34}	15.0	X	244.87000	49.55811	69.42089	6.40240	0.0317395	0.22961173	2.6412327	21	10 20.2	18.6
41763 2000 VA_{35}	15.4	X	7.50253	108.44909	228.03051	5.69270	0.1623253	0.27746295	2.3280879	21	10 19.5	17.5
41764 2000 VO_{35}	15.1	X	125.00242	7.42551	191.88508	1.91850	0.1432611	0.27165856	2.3611330	21	9 14.7	18.5
41765 2000 VV_{35}	15.3	X	169.92615	20.32289	220.39438	6.13634	0.1062617	0.28516305	2.2859877	21	12 24.6	18.5
41766 2000 VB_{36}	14.5	X	44.93884	318.19459	95.91260	13.78002	0.2225315	0.24229273	2.5482525	21	—	—
41767 2000 VQ_{36}	13.9	X	76.92216	313.13349	106.90138	14.92534	0.1668827	0.24504471	2.5291378	21	1 5.6	16.5
41768 2000 VB_{37}	14.7	X	34.87017	297.18967	109.29531	6.45233	0.2789556	0.23999179	2.5645143	21	—	—
41769 2000 VH_{37}	14.1	X	307.81870	335.79712	89.39080	14.35155	0.1521850	0.23027935	2.6361253	21	10 29.6	17.2
41770 2000 VV_{37}	14.8	X	324.88968	334.27554	70.38918	5.09341	0.2332413	0.27795521	2.3253385	21	11 7.6	15.9
41771 2000 VB_{38}	15.5	X	260.32963	165.36662	223.86129	1.39392	0.2060273	0.26804709	2.3822938	21	6 14.3	19.0
41772 2000 VE_{43}	16.0	X	187.71960	141.14019	3.54674	2.30168	0.1448406	0.27366826	2.3495594	21	9 6.9	19.4
41773 2000 VH_{43}	14.9	X	103.76993	343.07756	246.42258	7.33750	0.1274486	0.27615885	2.3354114	21	9 27.9	18.3
41774 2000 VR_{44}	15.3	X	49.99975	295.13986	48.55342	6.61000	0.2685033	0.28630763	2.2798911	21	—	—
41775 2000 VS_{44}	15.4	X	264.69524	31.48138	12.87680	2.67329	0.2180872	0.27223444	2.3578021	21	7 9.0	18.5
41776 2000 VQ_{46}	15.8	X	9.76183	86.55599	21.51368	7.20922	0.0317342	0.29372286	2.2413562	21	—	—
41777 2000 VW_{46}	15.4	X	176.33472	56.37076	7.63272	6.19723	0.0957386	0.26258227	2.4152335	21	5 7.5	18.9
41778 2000 VB_{50}	15.4	X	73.23101	141.41513	243.38636	6.28029	0.1295160	0.29198094	2.2502618	21	—	—
41779 2000 VK_{50}	15.3	X	109.38015	358.52377	261.28379	5.54653	0.1278000	0.27897349	2.3196765	21	11 15.4	18.6
41780 2000 VK_{53}	15.3	X	333.16068	28.00369	261.46718	5.44256	0.1058070	0.26826760	2.3809882	21	5 24.0	17.8
41781 2000 VL_{55}	15.6	X	316.65774	46.20995	327.44534	3.65853	0.1367998	0.27632556	2.3344720	21	8 30.6	17.7
41782 2000 VM_{55}	14.6	X	125.71041	104.01949	31.66558	9.57994	0.1071631	0.21659104	2.7460539	21	6 18.2	18.7
41783 2000 VS_{55}	14.7	X	294.09888	117.87961	16.67807	5.87540	0.0941357	0.28667791	2.2779275	21	—	—
41784 2000 VD_{56}	15.1	X	211.20338	351.97560	252.47064	10.66779	0.0231587	0.24364984	2.5387813	21	—	—
41785 2000 VF_{56}	14.7	X	53.82768	70.39603	254.79409	9.60795	0.0393324	0.28186233	2.3037995	21	11 26.3	17.4
41786 2000 VL_{57}	14.8	X	250.79266	19.05108	48.92976	12.41802	0.1695831	0.22438975	2.6820531	21	8 3.1	19.0
41787 2000 VO_{57}	14.2	X	307.30492	150.65061	254.24946	10.57730	0.0696529	0.22924927	2.6440160	21	9 25.6	17.7
41788 2000 VS_{60}	15.3	X	288.57253	226.30440	169.67131	2.49367	0.1673364	0.27425575	2.3462029	21	8 7.4	17.7
41789 2000 VW_{60}	14.9	X	2.39205	327.01306	82.75031	7.58345	0.1130214	0.28325628	2.2962351	21	—	—
41790 2000 WY_{1}	15.2	X	64.37009	175.03796	79.47205	3.46548	0.0281496	0.22325415	2.6911404	21	8 29.0	18.7
41791 2000 WJ_{3}	15.2	X	217.38054	85.25100	315.65738	5.21128	0.0999928	0.26619926	2.3933056	21	5 22.4	18.7
41792 2000 WH_{6}	15.0	X	282.58026	312.06973	67.62162	24.42265	0.2516283	0.27140526	2.3626019	21	6 18.5	18.2
41793 2000 WW_{6}	14.7	X	206.67088	303.38842	340.26722	6.94281	0.1208504	0.29428418	2.2385052	21	—	—
41794 2000 WK_{11}	14.9	X	41.37352	348.22498	18.20994	5.00771	0.2175629	0.28377252	2.2934493	21	—	—
41795 Wiens	14.1	X	236.77694	352.54955	171.48854	9.71527	0.1651297	0.18646125	3.0344290	21	11 11.6	18.8
41796 2000 WL_{17}	14.9	X	273.17600	31.10987	52.07103	3.20266	0.1332935	0.22922396	2.6442106	21	9 24.3	18.1
41797 2000 WN_{18}	14.6	X	27.98509	286.51908	138.68030	2.82511	0.0642250	0.19470765	2.9481350	21	—	—
41798 2000 WV_{18}	15.3	X	12.71874	75.81690	255.91618	6.05372	0.1426844	0.27724373	2.3293150	21	10 17.7	17.6
41799 2000 WL_{19}	13.7	X	181.05446	262.33580	214.56794	23.82526	0.2681750	0.17050333	3.2209264	21	7 16.4	19.8
41800 Robwilliams	14.0	X	282.73539	271.81393	220.33897	24.99135	0.2341715	0.23465698	2.6032371	21	11 28.9	16.9
41801 2000 WG_{22}	16.4	X	63.04819	196.60312	164.14200	5.56848	0.1280274	0.28931634	2.2640573	21	—	—
41802 2000 WD_{24}	15.1	X	304.55842	320.84272	175.46137	7.03931	0.0470105	0.28782944	2.2718478	21	—	—
41803 2000 WR_{24}	15.7	X	201.41915	295.04035	177.48396	6.79874	0.0636531	0.27134825	2.3629328	21	8 12.4	19.0
41804 2000 WA_{30}	15.1	X	285.06214	322.78481	162.69908	13.15127	0.2320491	0.23734393	2.5835525	21	11 28.2	18.0
41805 2000 WC_{30}	15.7	X	287.49619	244.94160	256.93408	6.36190	0.1475456	0.24096711	2.5575896	21	—	—
41806 2000 WF_{32}	15.0	X	168.11361	290.13412	104.99816	9.89059	0.1625509	0.21075891	2.7964824	21	4 6.4	19.7
41807 2000 WS_{33}	16.0	X	51.77551	227.06281	113.99799	7.67570	0.1449640	0.28435906	2.2902946	21	12 30.9	19.1
41808 2000 WG_{34}	15.4	X	300.80705	255.29819	175.92878	5.92120	0.1543045	0.27913110	2.3188032	21	10 29.8	17.4
41809 2000 WX_{34}	14.9	X	351.21157	289.32505	156.38721	6.41524	0.1381234	0.23958258	2.5674336	21	—	—
41810 2000 WG_{35}	14.8	X	333.65774	223.38492	216.70883	8.40695	0.0992679	0.18859419	3.0115068	21	12 18.1	18.6
41811 2000 WK_{35}	15.3	X	282.29144	39.39139	131.94416	8.70213	0.0466305	0.24106163	2.5569211	21	—	—
41812 2000 WP_{35}	15.6	X	338.16369	139.47511	193.38684	6.59227	0.1336039	0.27251535	2.3561815	21	8 7.0	17.8
41813 2000 WY_{35}	14.9	X	114.29370	322.92710	163.75451	5.47618	0.1060017	0.21228360	2.7830762	21	5 25.9	19.0
41814 2000 WP_{36}	15.1	X	25.23652	297.11741	105.94097	7.28049	0.2270901	0.28782598	2.2718661	21	—	—
41815 2000 WU_{36}	15.0	X	145.66814	314.45953	124.09884	7.07640	0.1144274	0.25884900	2.4384006	21	4 29.1	18.5
41816 2000 WN_{38}	15.8	X	296.71475	157.06723	169.17306	6.56839	0.0573290	0.26602640	2.3943422	21	5 29.2	18.7
41817 2000 WX_{40}	14.6	X	48.61531	286.52473	136.42385	6.74408	0.1168921	0.29136278	2.2534435	21	—	—
41818 2000 WC_{41}	14.6	X	71.04488	269.07852	120.41194	10.11324	0.2820271	0.24425095	2.5346142	21	—	—
41819 2000 WK_{44}	14.8	X	35.68496	94.08732	104.51851	8.74812	0.1587005	0.21042893	2.7994052	21	5 16.1	17.9
41820 2000 WT_{45}	15.9	X	81.11484	213.18244	198.00159	3.55316	0.0599077	0.29646678	2.2275050	21	—	—
41821 2000 WU_{45}	15.5	X	64.00808	48.08971	196.74147	4.70053	0.0449020	0.27181670	2.3602171	21	8 17.5	18.3
41822 2000 WW_{47}	14.9	X	131.68006	328.59427	143.85151	6.83865	0.0865104	0.25968082	2.4331906	21	5 23.9	18.3
41823 2000 WZ_{47}	14.9	X	280.21745	253.33529	241.77043	14.72987	0.0662463	0.23506037	2.6002580	21	12 21.1	18.2
41824 2000 WQ_{48}	14.8	X	355.47044	216.42832	249.09564	6.35886	0.1410294	0.23961662	2.5671905	21	—	—
41825 2000 WZ_{48}	14.7	X	316.94874	262.26566	268.26634	10.78494	0.2400920	0.23926815	2.5696824	21	—	—
41826 2000 WH_{49}	15.1	X	219.21897	289.12075	111.97953	9.67331	0.2121949	0.26242062	2.4162252	21	5 23.0	19.2
41827 2000 WN_{49}	14.1	X	354.29050	309.98876	124.78709	14.51904	0.1641969	0.23493527	2.6011809	21	—	—
41828 2000 WM_{50}	15.0	X	317.52079	183.23615	175.81120	12.61678	0.0428810	0.22412253	2.6841846	21	8 13.8	18.6
41829 2000 WU_{53}	16.2	X	100.98712	216.62282	242.26515	1.58495	0.1402290	0.25616315	2.4554152	21	3 31.9	19.2
41830 2000 WT_{56}	14.1	X	313.34367	239.75447	61.37984	7.10018	0.1204793	0.26638641	2.3921845	21	5 7.1	16.6
41831 2000 WN_{57}	15.2	X	128.45833	340.89983	104.77761	3.43647	0.1803429	0.25760496	2.4462447	21	4 25.0	18.8
41832 2000 WB_{58}	15.2	X	327.37534	350.75361	103.22784	2.63348	0.1392706	0.23732832	2.5836658	21	—	—
41833 2000 WE_{58}	14.9	X	330.06956	311.06962	82.63932	6.89738	0.0992481	0.23040206	2.6351892	21	10 24.2	17.9
41834 2000 WL_{58}	14.8	X	221.09457	301.46084	201.10253	1.59718	0.1580926	0.17967325	3.1103822	21	9 28.6	19.7
41835 2000 WO_{58}	15.3	X	263.49598	218.30299	144.05387	1.59997	0.2093283	0.26696386	2.3887337	21	5 12.8	18.8
41836 2000 WP_{58}	14.7	X	216.16254	349.54955	86.91095	12.23221	0.0138735	0.26721457	2.3872393	21	7 18.5	17.7
41837 2000 WS_{58}	14.8	X	58.09334	261.40474	109.02352	3.30079	0.0537161	0.23789590	2.5795547	21	—	—
41838 2000 WK_{59}	14.6	X	150.38886	315.96546	106.57748	5.76970	0.1206789	0.20968961	2.8059813	21	4 17.8	18.9
41839 2000 WO_{59}	14.8	X	252.87275	76.00021	88.05093	15.36490	0.0774042	0.23501599	2.6005854	21	12 19.9	18.2
41840 2000 WS_{59}	14.7	X	193.58347	45.04891	120.11529	4.77850	0.1690138	0.22580103	2.6708661	21	10 5.5	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41841 2000 WF_{60}	14.6	X	336.39498	233.70312	194.83057	3.57227	0.1545559	0.23480608	2.6021350	21	12 23.2	17.1
41842 2000 WO_{60}	14.1	X	28.95821	299.60996	98.93513	15.45129	0.1092165	0.23796348	2.5790663	21	—	—
41843 2000 WX_{70}	15.3	X	299.58381	71.85524	336.50458	5.66331	0.1454434	0.27820306	2.3239571	21	9 18.9	17.5
41844 2000 WO_{72}	14.8	X	121.60563	311.39349	80.30861	15.35009	0.0986116	0.24566229	2.5248973	21	1 27.6	18.3
41845 2000 WW_{83}	14.8	X	60.82953	199.73795	352.24291	4.39559	0.0461480	0.21645286	2.7472225	21	5 30.2	18.4
41846 2000 WB_{86}	14.8	X	145.68882	55.67482	20.20591	2.59506	0.1292737	0.21112132	2.7932812	21	4 27.1	18.9
41847 2000 WK_{86}	14.8	X	67.78785	28.80898	301.53690	4.32736	0.1568410	0.28277567	2.2988362	21	—	—
41848 2000 WM_{86}	15.8	X	133.31289	334.43126	15.93278	2.50974	0.1970062	0.29483196	2.2357317	21	—	—
41849 2000 WS_{86}	14.7	X	73.41044	256.24430	76.84595	7.21973	0.1474851	0.28303849	2.2974129	21	—	—
41850 2000 WF_{87}	15.4	X	170.09708	345.95777	321.44522	4.30031	0.1774752	0.29183271	2.2510237	21	—	—
41851 2000 WK_{87}	15.1	X	319.51567	333.17134	71.37137	6.08495	0.1046355	0.27614639	2.3354817	21	10 29.1	17.3
41852 2000 WN_{87}	13.7	X	347.88751	274.83211	94.30351	17.09720	0.2347874	0.18044879	3.1014640	21	10 22.4	17.1
41853 2000 WY_{87}	14.8	X	64.52715	314.65071	55.76475	7.24831	0.1961789	0.28641228	2.2793357	21	—	—
41854 2000 WF_{88}	14.9	X	55.76223	315.46356	67.59043	6.98769	0.1340070	0.28552298	2.2840661	21	—	—
41855 2000 WV_{89}	15.1	X	290.34043	73.88771	51.75049	4.54781	0.0772736	0.23696015	2.5863413	21	12 23.9	18.1
41856 2000 WL_{90}	14.5	X	352.71086	0.15941	72.62427	2.26483	0.0304189	0.19099357	2.9862321	21	—	—
41857 2000 WU_{91}	15.9	X	188.86695	209.35436	36.87074	2.84052	0.0754442	0.28759743	2.2730695	21	—	—
41858 2000 WU_{93}	14.5	X	241.45286	253.62000	236.27311	1.37073	0.1493638	0.22950732	2.6420337	21	10 10.3	18.3
41859 2000 WD_{95}	15.0	X	317.83536	352.09660	68.60302	13.85197	0.0133730	0.23173887	2.6250453	21	11 12.9	18.4
41860 2000 WW_{95}	15.4	X	33.05948	122.45612	266.91935	3.58688	0.1547570	0.28695806	2.2764447	21	—	—
41861 2000 WH_{96}	15.5	X	282.18709	82.03217	56.46856	3.18815	0.0430033	0.23651323	2.5895984	21	—	—
41862 2000 WK_{96}	14.9	X	307.55307	182.88766	249.92201	5.74546	0.2091687	0.23192949	2.6236067	21	10 24.9	17.3
41863 2000 WU_{96}	15.0	X	33.64622	326.88946	92.97303	3.58331	0.1495822	0.24194718	2.5506782	21	—	—
41864 2000 WC_{97}	15.3	X	245.09436	345.77767	351.01556	1.92131	0.1913630	0.26106045	2.4246106	21	3 24.2	19.2
41865 2000 WW_{97}	14.4	X	261.94358	313.05064	66.98588	7.00275	0.0467411	0.21822848	2.7323003	21	6 26.6	18.1
41866 2000 WX_{97}	14.7	X	329.24579	71.06183	274.68615	5.61169	0.1494473	0.27225573	2.3576791	21	8 8.0	16.7
41867 2000 WB_{99}	15.5	X	184.84166	147.20509	326.26790	0.94801	0.0292873	0.22077086	2.7112832	21	7 25.4	19.0
41868 2000 WH_{99}	15.5	X	207.40834	61.94529	344.68441	1.33928	0.0885385	0.21600388	2.7510280	21	5 22.8	19.7
41869 2000 WK_{99}	14.6	X	207.31184	269.14671	53.41975	2.77519	0.0138384	0.20410697	2.8569161	21	2 10.1	18.6
41870 2000 WV_{99}	15.9	X	87.38023	221.09692	85.99889	4.39208	0.0488604	0.28187066	2.3037542	21	12 16.9	18.8
41871 2000 WD_{100}	15.8	X	222.46078	250.25535	52.43457	2.09689	0.0612166	0.29878951	2.2159459	21	1 15.8	18.8
41872 2000 WJ_{100}	15.0	X	19.51985	11.69871	57.72060	2.97604	0.1149821	0.24054416	2.5605868	21	—	—
41873 2000 WR_{100}	16.3	X	234.36744	26.51125	28.01202	1.71703	0.1121994	0.26849617	2.3796367	21	6 30.1	19.6
41874 2000 WY_{100}	13.9	X	21.70541	274.02442	280.89932	8.42714	0.1706254	0.20529390	2.8458938	21	4 6.0	17.0
41875 2000 WZ_{100}	14.6	X	55.28612	198.01583	77.75305	9.62575	0.1299036	0.27100816	2.3649092	21	10 9.5	17.6
41876 2000 WB_{101}	14.9	X	256.38364	101.69706	289.74686	4.41641	0.1112725	0.26694027	2.3888744	21	6 25.2	17.9
41877 2000 WE_{103}	14.6	X	337.28355	335.61995	120.75770	10.62878	0.2265534	0.23884428	2.5727217	21	—	—
41878 2000 WH_{104}	14.2	X	104.61666	217.63950	127.51694	12.10530	0.0208099	0.19055687	2.9907927	21	—	—
41879 2000 WO_{104}	15.2	X	26.59467	236.48197	90.78472	4.04024	0.2460053	0.27634371	2.3343698	21	11 24.2	17.6
41880 2000 WR_{107}	15.4	X	95.48879	156.81124	15.23287	6.66864	0.0449045	0.26597238	2.3946664	21	6 19.8	18.5
41881 2000 WH_{109}	15.5	X	326.00403	120.56466	298.82530	5.48051	0.1166020	0.23399708	2.6081292	21	11 17.9	18.4
41882 2000 WD_{111}	15.3	X	353.29406	158.75436	327.63960	3.62181	0.1062582	0.24460503	2.5321677	21	—	—
41883 2000 WF_{111}	15.2	X	180.18018	294.27491	330.05156	4.63769	0.1023122	0.28950836	2.2630560	21	—	—
41884 2000 WO_{113}	14.8	X	241.33663	279.28909	35.02204	8.77486	0.1422223	0.20948200	2.8078349	21	3 5.9	19.3
41885 2000 WA_{115}	15.1	X	198.89913	85.55069	349.67657	5.13686	0.0469562	0.21795096	2.7346192	21	6 21.2	19.1
41886 2000 WM_{115}	15.4	X	316.34019	354.50853	10.76066	3.06541	0.1548751	0.27400662	2.3476247	21	8 15.5	17.3
41887 2000 WW_{115}	15.5	X	289.05100	319.05380	28.26761	3.05315	0.2256156	0.26923563	2.3752775	21	5 18.6	18.5
41888 2000 WC_{118}	15.1	X	339.42429	279.49145	63.52910	6.58368	0.1114931	0.27177270	2.3604719	21	9 2.9	17.4
41889 2000 WF_{118}	15.2	X	96.62677	303.69597	36.15074	4.22861	0.1950070	0.28826923	2.2695366	21	—	—
41890 2000 WM_{118}	15.1	X	225.97637	292.49599	32.35639	6.39642	0.1169004	0.25405139	2.4690033	21	2 26.5	18.8
41891 2000 WC_{119}	14.2	X	56.65407	174.16746	297.21886	4.69220	0.1462798	0.20288988	2.8683301	21	2 17.4	17.4
41892 2000 WS_{119}	14.7	X	22.98138	334.76571	45.96946	4.72315	0.1603184	0.23597045	2.5935680	21	—	—
41893 2000 WU_{119}	15.3	X	184.37275	350.28559	304.65633	6.75624	0.1481526	0.29284038	2.2458569	21	—	—
41894 2000 WH_{121}	14.9	X	174.30213	64.14822	62.65828	6.94186	0.0508668	0.26782318	2.3836214	21	8 2.6	18.2
41895 2000 WJ_{121}	14.6	X	302.18134	343.40009	66.36919	7.65935	0.1338227	0.22807225	2.6531049	21	9 26.4	17.7
41896 2000 WN_{123}	15.1	X	46.86392	354.57913	67.70485	2.74207	0.1034613	0.24281204	2.5446179	21	—	—
41897 2000 WP_{123}	15.0	X	241.70142	155.44119	50.88646	1.17110	0.0591392	0.23783285	2.5800106	21	—	—
41898 2000 WN_{124}	14.1	X	173.42447	331.91878	80.80595	29.93488	0.2815917	0.21122257	2.7923884	21	5 11.9	19.5
41899 2000 WY_{124}	12.8	X	7.95796	220.07687	90.13377	16.81428	0.0220352	0.17848638	3.1241557	21	8 25.9	17.4
41900 2000 WV_{126}	15.4	X	141.42400	43.45595	244.58188	5.42606	0.1186468	0.28737548	2.2742398	21	—	—
41901 2000 WP_{127}	15.5	X	208.23752	141.95678	244.58724	2.59779	0.0508763	0.26133489	2.4229128	21	4 25.2	18.9
41902 2000 WA_{128}	14.2	X	130.71928	42.16198	110.45179	1.79317	0.1127930	0.17023369	3.2243267	21	7 16.6	19.0
41903 2000 WO_{128}	16.0	X	240.01645	174.66065	62.41478	5.79728	0.1105414	0.29414828	2.2391946	21	—	—
41904 2000 WJ_{130}	14.2	X	270.26301	21.57561	78.59736	6.71547	0.1415399	0.18155780	3.0888213	21	10 7.6	18.5
41905 2000 WE_{133}	15.8	X	78.63354	120.55036	332.78941	7.66601	0.0786778	0.25471576	2.4647081	21	2 11.3	18.6
41906 2000 WO_{135}	14.4	X	222.93974	30.96961	65.37827	18.21451	0.1007787	0.17208220	3.2011947	21	8 16.9	19.6
41907 2000 WF_{137}	14.7	X	34.63751	309.48533	108.70479	16.08102	0.1025992	0.24329941	2.5412185	21	—	—
41908 2000 WR_{137}	15.8	X	344.83060	359.96329	33.53783	4.41933	0.1411672	0.27860957	2.3216961	21	11 29.7	17.9
41909 2000 WO_{141}	13.9	X	169.45901	33.14911	43.56582	8.57230	0.2061609	0.21212312	2.7844796	21	5 24.0	18.7
41910 2000 WS_{141}	15.0	X	53.31039	351.10312	55.05457	9.05136	0.2061521	0.28907305	2.2653274	21	—	—
41911 2000 WH_{143}	14.8	X	141.99237	333.68279	156.21581	13.26705	0.1417463	0.26449387	2.4035822	21	7 1.8	18.6
41912 2000 WR_{144}	15.3	X	28.33463	22.12747	211.47042	4.70898	0.1019032	0.26405816	2.4062255	21	6 12.1	17.7
41913 2000 WF_{149}	14.8	X	90.02738	169.33676	232.87181	13.32087	0.1783469	0.24533159	2.5271658	21	1 2.9	17.7
41914 2000 WY_{151}	14.1	X	286.50066	241.50813	193.26278	13.16656	0.2428368	0.22711040	2.6605905	21	9 10.7	17.4
41915 2000 WJ_{152}	15.0	X	236.84714	311.81254	197.01182	7.35203	0.0438750	0.27969625	2.3156786	21	11 23.4	17.8
41916 2000 WT_{152}	15.0	X	81.48079	33.03693	336.05897	5.60067	0.1547233	0.29344373	2.2427774	21	—	—
41917 2000 WC_{153}	15.6	X	94.31928	124.94563	252.79479	5.57756	0.0797731	0.29342174	2.2428894	21	—	—
41918 2000 WA_{156}	15.5	X	84.01922	264.28864	305.80001	6.33300	0.1765700	0.26758485	2.3850365	21	8 17.1	18.6
41919 2000 WW_{156}	14.1	X	245.67868	236.30473	286.92490	10.35687	0.0663308	0.18825913	3.0150789	21	12 1.1	18.5
41920 2000 WA_{158}	14.4	X	274.10026	328.76606	51.06143	10.11292	0.2493146	0.26772032	2.3842319	21	6 10.4	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
41921 2000 WL_{158}	14.8	X	76.26832	334.62454	57.42223	10.91360	0.1134856	0.24191168	2.5509278	21	—	—
41922 2000 WT_{158}	15.5	X	25.96308	242.57369	147.33393	5.69872	0.1707001	0.28700621	2.2761900	21	—	—
41923 2000 WN_{159}	14.1	X	5.01021	345.65336	65.84737	14.56976	0.1451969	0.23258746	2.6186564	21	—	—
41924 2000 WF_{160}	14.9	X	325.97469	139.19658	214.93449	13.95721	0.0819438	0.22635853	2.6664788	21	8 13.6	18.5
41925 2000 WJ_{161}	14.6	X	39.41520	162.57762	200.41573	14.30184	0.1110820	0.23763170	2.5814664	21	12 27.7	18.3
41926 2000 WQ_{161}	15.6	X	245.25101	348.90546	138.85541	8.25144	0.0997870	0.27898894	2.3195909	21	10 30.5	18.5
41927 2000 WM_{166}	15.0	X	0.09715	205.89875	122.95643	2.74545	0.1674723	0.18189274	3.0850282	21	9 9.7	18.3
41928 2000 WQ_{172}	15.1	X	163.84571	308.85144	153.86793	13.73902	0.1785413	0.21643407	2.7473815	21	6 21.2	19.9
41929 2000 WC_{175}	15.2	X	16.40893	290.92668	165.44779	9.50964	0.1475739	0.24427539	2.5344452	21	—	—
41930 2000 WO_{175}	14.4	X	105.49670	266.35462	106.44505	13.67101	0.1186334	0.19960241	2.8997386	21	—	—
41931 2000 WO_{177}	15.5	X	82.63027	209.63391	143.44663	4.86722	0.1930443	0.29088144	2.2559287	21	—	—
41932 2000 WF_{178}	15.2	X	52.82341	122.17684	85.36681	6.38913	0.0194563	0.21360877	2.7715539	21	6 7.0	18.7
41933 2000 WH_{179}	15.2	X	113.85371	2.69614	154.45300	7.00395	0.0946983	0.26457271	2.4031047	21	7 1.2	18.5
41934 2000 WO_{179}	14.7	X	93.10738	21.16626	156.29265	7.50375	0.1591148	0.21594302	2.7515449	21	7 11.4	18.7
41935 2000 WQ_{179}	14.5	X	34.42755	212.61881	96.52711	15.66191	0.1254166	0.22970138	2.6405454	21	10 21.9	18.1
41936 2000 WX_{179}	15.9	X	242.53108	186.97098	112.45338	3.12211	0.0863139	0.30394289	2.1908269	21	2 2.3	18.9
41937 2000 WJ_{185}	15.0	X	96.19942	96.99795	62.31274	3.76448	0.0271366	0.21503888	2.7592521	21	6 2.0	18.7
41938 2000 WO_{185}	15.7	X	1.07176	4.57778	66.35071	0.43196	0.0952132	0.23757791	2.5818560	21	—	—
41939 2000 WQ_{186}	14.9	X	59.42256	160.88701	225.97651	7.26411	0.1531499	0.24031589	2.5622081	21	—	—
41940 2000 WR_{190}	15.2	X	87.73819	281.55177	198.75010	3.21899	0.0460734	0.21067421	2.7972318	21	4 3.2	18.9
41941 2000 XF	14.4	X	222.17307	119.21430	96.70653	11.91823	0.0917851	0.23554675	2.5966772	21	—	—
41942 2000 XW_{1}	15.2	X	339.96184	282.59106	90.77324	4.16667	0.1285952	0.22797701	2.6538437	21	10 11.7	18.0
41943 Fredrick	14.5	X	56.65696	358.50951	62.68178	14.37276	0.1428424	0.24457037	2.5324069	21	—	—
41944 2000 XR_{2}	15.1	X	257.61217	115.71708	340.91707	12.12730	0.1385169	0.22982902	2.6395677	21	9 16.7	18.6
41945 2000 XY_{5}	14.3	X	249.38314	169.28062	337.18898	8.32656	0.1377348	0.23316854	2.6143039	21	11 9.8	18.0
41946 2000 XF_{6}	14.7	X	95.27333	191.33607	326.01546	7.18568	0.1859277	0.21291360	2.7775834	21	6 22.3	18.8
41947 2000 XW_{7}	14.7	X	244.00299	358.43683	24.67318	6.46344	0.1593492	0.26518398	2.3994104	21	5 23.1	18.3
41948 2000 XX_{7}	14.2	X	303.42584	45.43915	68.96826	15.26293	0.1565277	0.23428661	2.6059799	21	12 22.9	16.8
41949 2000 XB_{8}	15.1	X	236.34123	331.49982	336.22570	6.65381	0.1269330	0.30182367	2.2010700	21	2 6.4	18.1
41950 2000 XA_{9}	14.7	X	348.30293	341.85629	68.22746	14.89510	0.1757097	0.23316346	2.6143419	21	12 20.4	17.4
41951 2000 XH_{10}	13.7	X	283.84956	41.28744	71.82822	22.65743	0.0687289	0.23046362	2.6347200	21	11 28.3	17.0
41952 2000 XA_{11}	13.4	X	176.59257	307.68947	197.37160	16.24578	0.1687027	0.17539486	3.1607597	21	8 17.9	18.9
41953 2000 XK_{16}	14.4	X	212.71361	208.22494	348.23458	9.66329	0.0402408	0.18990489	2.9976341	21	12 5.3	18.8
41954 2000 XX_{20}	16.0	X	343.84286	24.61454	333.63518	6.55910	0.1447453	0.27744717	2.3281762	21	9 30.7	18.0
41955 2000 XD_{22}	14.9	X	280.17353	210.24686	341.43506	7.04172	0.1320721	0.24254479	2.5464867	21	—	—
41956 2000 XB_{27}	14.4	X	312.22106	18.62567	33.85816	10.27867	0.0780938	0.18100473	3.0951100	21	10 12.7	18.5
41957 2000 XD_{27}	15.0	X	71.31224	191.26258	41.50004	8.76064	0.1516289	0.26671045	2.3902465	21	9 3.6	18.2
41958 2000 XK_{29}	14.5	X	238.45883	69.61805	57.38883	14.83268	0.0754995	0.22730464	2.6590746	21	10 18.9	18.3
41959 2000 XV_{29}	15.0	X	32.84121	294.24947	46.96065	9.44847	0.1781814	0.23152290	2.6266775	21	11 29.9	18.3
41960 2000 XR_{30}	14.4	X	1.88567	125.79765	323.54992	8.36694	0.1270296	0.19330620	2.9623670	21	—	—
41961 2000 XS_{32}	15.2	X	156.07767	285.75585	5.15744	6.20869	0.1112603	0.28741667	2.2740224	21	—	—
41962 2000 XG_{35}	14.7	X	87.26632	287.32445	42.82415	15.23538	0.1240488	0.23499772	2.6007201	21	—	—
41963 2000 XU_{35}	14.7	X	287.44977	330.28325	348.17517	14.90817	0.1294961	0.21872606	2.7281549	21	4 19.5	18.7
41964 2000 XW_{36}	13.9	X	194.78320	76.27001	29.09645	18.05377	0.0709952	0.22106664	2.7088642	21	8 1.1	18.3
41965 2000 XP_{37}	14.2	X	255.85067	22.28902	30.00036	16.18546	0.2531099	0.22140073	2.7061385	21	7 6.2	18.7
41966 2000 XU_{37}	14.3	X	4.31368	5.82879	42.65686	15.51698	0.0906031	0.23388639	2.6089520	21	—	—
41967 2000 XE_{39}	15.3	X	5.16982	73.07799	325.86749	12.34371	0.1789526	0.23653713	2.5894240	21	—	—
41968 2000 XE_{53}	14.6	X	196.07809	49.17743	39.85949	9.32850	0.1084921	0.21715432	2.7413031	21	7 4.5	19.0
41969 2000 YX	14.9	X	289.34016	218.15661	129.55459	2.03138	0.2097930	0.26640194	2.3920915	21	5 23.3	18.0
41970 2000 YZ_{3}	15.6	X	14.08899	133.57042	80.98835	6.06489	0.1278495	0.25764111	2.4460159	21	4 19.3	17.9
41971 2000 YM_{6}	14.1	X	104.86215	202.47924	292.35765	8.32068	0.0869687	0.21094384	2.7948477	21	5 19.5	18.1
41972 2000 YO_{8}	15.2	X	295.84607	327.91656	153.61418	1.51755	0.2219063	0.18698427	3.0287680	21	11 28.2	18.6
41973 2000 YT_{11}	14.2	X	188.22453	29.43912	128.77157	26.91118	0.0527232	0.22333698	2.6904750	21	10 4.0	18.6
41974 2000 YW_{11}	14.4	X	293.07180	159.31848	229.25076	11.93425	0.2345300	0.22322168	2.6914013	21	7 18.0	18.0
41975 2000 YU_{12}	14.7	X	184.78403	300.68463	271.12032	3.29058	0.1050315	0.22937041	2.6430849	21	11 24.8	18.6
41976 2000 YA_{15}	15.3	X	81.19747	129.81649	230.79064	4.41101	0.1808536	0.28963977	2.2623715	21	—	—
41977 2000 YU_{15}	15.2	X	168.19841	10.48344	36.52134	0.53179	0.1682138	0.25650986	2.4532022	21	4 12.8	19.0
41978 2000 YX_{15}	14.3	X	124.49809	84.39417	39.41979	4.11852	0.1602362	0.21018509	2.8015698	21	6 7.6	18.5
41979 Lelumacri	14.9	X	276.06934	39.99148	95.74579	2.66722	0.1988641	0.18490064	3.0514794	21	11 18.1	18.8
41980 2000 YG_{18}	15.2	X	281.30490	201.36089	182.92408	6.51417	0.1450304	0.26888639	2.3773338	21	7 12.6	18.2
41981 Yaobeina	13.8	X	198.70270	107.71028	110.76318	14.40851	0.1311792	0.23227355	2.6210152	21	12 17.0	17.8
41982 2000 YE_{21}	15.3	X	12.05261	20.30666	345.17315	4.43310	0.1461628	0.27887376	2.3202295	21	12 7.9	17.8
41983 2000 YL_{26}	14.8	X	233.50957	172.59864	210.56441	14.21272	0.0797346	0.21604115	2.7507116	21	5 23.4	18.9
41984 2000 YQ_{26}	14.4	X	323.57821	237.24409	157.83348	12.34301	0.3017178	0.23089721	2.6314205	21	9 27.9	16.1
41985 2000 YY_{28}	15.4	X	70.78880	257.59485	86.49153	7.83261	0.2714907	0.28206994	2.3026690	21	—	—
41986 Fort Bend	14.6	X	179.26660	81.87637	61.59456	4.22472	0.1389534	0.21950835	2.7216692	21	8 26.7	18.9
41987 2000 YW_{29}	13.8	X	98.85742	283.23597	119.21595	15.46868	0.0967926	0.24234191	2.5479078	21	1 8.4	16.8
41988 2000 YX_{30}	15.1	X	97.46408	281.14093	140.88579	2.76618	0.0463185	0.19968827	2.8989074	21	2 2.9	19.1
41989 2000 YX_{33}	14.5	X	75.62083	302.70583	138.47249	12.47713	0.1154491	0.24651870	2.5190463	21	1 25.7	17.4
41990 2000 YG_{34}	14.4	X	344.40426	227.01295	137.00683	16.38375	0.1587735	0.22401188	2.6850684	21	10 10.8	17.4
41991 2000 YJ_{34}	13.8	X	297.82791	334.35150	142.54571	17.63558	0.1509106	0.18342989	3.0677689	21	12 6.9	17.8
41992 2000 YR_{35}	15.1	X	257.79190	228.40059	277.16751	3.74662	0.1359787	0.23237090	2.6202831	21	11 22.7	18.3
41993 2000 YD_{38}	13.8	X	142.67209	289.67025	128.99861	10.05638	0.0427475	0.15778650	3.3917420	21	4 3.7	18.8
41994 2000 YX_{38}	14.2	X	266.72640	23.20447	111.37784	11.83291	0.0697590	0.23178756	2.6246776	21	12 3.3	17.6
41995 2000 YF_{41}	14.9	X	60.78440	194.09589	180.33925	3.51998	0.1729959	0.23879528	2.5730737	21	—	—
41996 2000 YE_{43}	15.4	X	354.40529	224.36834	136.63790	5.82649	0.2042149	0.27653788	2.3332770	21	11 9.6	17.3
41997 2000 YG_{45}	14.9	X	18.56413	155.68875	328.29553	1.12656	0.0460627	0.19742430	2.9210275	21	1 5.9	18.8
41998 2000 YO_{45}	14.1	X	264.48037	15.43189	128.03603	10.21176	0.0900531	0.18408828	3.0604500	21	11 29.4	18.4
41999 2000 YX_{45}	14.9	X	83.70840	66.22120	260.36407	5.86735	0.2385161	0.28299297	2.2976592	21	—	—
42000 2000 YT_{46}	15.0	X	297.44590	262.63579	97.68669	10.02803	0.1177715	0.22001310	2.7175051	21	7 8.0	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42001 2000 YW_{46}	15.2	X	356.54235	251.34964	94.82086	4.97051	0.0319454	0.27262907	2.3555262	21	10 4.5	17.9
42002 2000 YU_{47}	14.9	X	32.52166	138.06114	319.25269	1.98325	0.1436971	0.24413394	2.5354241	21	—	—
42003 2000 YJ_{48}	15.3	X	127.23511	223.22529	116.99756	4.12253	0.0980122	0.24203839	2.5500374	21	—	—
42004 2000 YJ_{49}	15.6	X	282.67978	351.10784	15.47540	0.33604	0.2070801	0.26826173	2.3810229	21	6 9.9	18.6
42005 2000 YW_{49}	15.5	X	350.40684	206.58591	98.61146	6.30603	0.0352286	0.21773515	2.7364259	21	7 22.1	19.0
42006 2000 YA_{50}	15.2	X	170.65059	65.99823	313.57286	1.53012	0.1749111	0.25436174	2.4669946	21	3 11.8	19.0
42007 2000 YG_{50}	15.3	X	291.57649	46.03201	60.21633	2.49865	0.0619265	0.23157211	2.6263053	21	11 30.1	18.6
42008 2000 YJ_{50}	15.1	X	178.24342	233.06984	81.88661	4.76008	0.2116062	0.29387982	2.2405581	21	—	—
42009 2000 YM_{50}	14.4	X	186.75638	1.19453	237.57407	3.28852	0.1158445	0.18469900	3.0536999	21	12 21.4	19.2
42010 2000 YX_{58}	15.0	X	29.43708	3.39891	13.24036	1.10141	0.1673262	0.23493323	2.6011960	21	—	—
42011 2000 YS_{59}	15.1	X	36.44603	173.33621	110.77770	9.04993	0.1132381	0.26914868	2.3757891	21	9 18.8	17.8
42012 2000 YC_{60}	14.1	X	33.09667	292.13037	147.99158	10.62171	0.0921350	0.19161502	2.9797719	21	—	—
42013 2000 YL_{61}	15.1	X	340.20744	296.51137	148.36068	2.77274	0.0232666	0.23402876	2.6078937	21	—	—
42014 2000 YM_{61}	14.4	X	261.55274	87.85093	124.45144	11.73094	0.0493426	0.19134550	2.9825693	21	—	—
42015 2000 YM_{65}	14.8	X	273.48386	342.59657	110.21323	2.59769	0.1066075	0.18064425	3.0992263	21	10 5.5	18.9
42016 2000 YZ_{68}	15.1	X	35.20791	9.68481	224.72708	5.55817	0.0953002	0.26595466	2.3947728	21	6 24.8	17.7
42017 2000 YU_{72}	15.5	X	147.51571	75.01056	105.16222	7.72526	0.0438607	0.27132130	2.3630893	21	9 13.5	18.7
42018 2000 YK_{78}	15.2	X	109.02400	16.59050	6.06169	1.21380	0.1224721	0.24742735	2.5128752	21	—	—
42019 2000 YE_{79}	15.2	X	113.34783	283.11208	286.00144	4.34412	0.0760082	0.27002054	2.3706723	21	9 7.0	18.4
42020 2000 YP_{79}	15.6	X	156.85251	107.78733	112.51739	1.14294	0.0313402	0.27812176	2.3244100	21	11 16.4	18.5
42021 2000 YJ_{80}	14.9	X	173.95616	293.76099	71.44505	3.56779	0.0896268	0.20521120	2.8466583	21	2 28.2	19.1
42022 2000 YS_{81}	14.7	X	97.41282	250.56983	98.53110	14.99595	0.0874271	0.24126784	2.5554639	21	—	—
42023 2000 YW_{81}	15.7	X	238.12580	320.34666	271.19903	5.81403	0.0893094	0.29080105	2.2563445	21	—	—
42024 2000 YX_{82}	15.4	X	288.91512	139.81902	222.72641	2.47733	0.0769640	0.22045394	2.7138811	21	7 4.6	19.0
42025 2000 YL_{84}	15.5	X	262.61233	246.86426	137.41373	3.33168	0.1821322	0.26841116	2.3801391	21	6 13.4	18.9
42026 2000 YF_{86}	15.3	X	101.59806	223.42049	135.67485	2.62095	0.1741627	0.24325614	2.5415198	21	—	—
42027 2000 YL_{86}	15.3	X	232.70527	147.90456	260.80086	5.50798	0.1135952	0.26595773	2.3947544	21	6 19.8	18.6
42028 2000 YT_{88}	14.8	X	27.08147	170.91012	86.62056	7.40804	0.0994747	0.26452843	2.4033728	21	7 17.4	17.2
42029 2000 YV_{88}	14.5	X	281.15250	273.38223	182.07376	1.52517	0.1307759	0.18167946	3.0874421	21	10 14.7	18.4
42030 2000 YA_{89}	14.6	X	59.11058	84.59970	152.56245	1.91820	0.0095967	0.16940332	3.2348546	21	7 23.0	19.2
42031 2000 YJ_{89}	15.7	X	161.34847	218.47758	205.18449	1.73641	0.1833046	0.25817955	2.4426139	21	4 28.4	19.4
42032 2000 YV_{89}	15.9	X	347.62464	111.39398	239.51452	1.36232	0.1768057	0.27369705	2.3493946	21	9 30.4	17.7
42033 2000 YH_{95}	15.1	X	127.34079	251.34773	88.65422	1.72526	0.2724840	0.24385461	2.5373599	21	—	—
42034 2000 YD_{96}	14.7	X	208.95018	120.99132	160.22965	2.37329	0.0413632	0.19412951	2.9539854	21	—	—
42035 2000 YG_{96}	15.3	X	160.15128	201.97480	130.61633	6.72974	0.1855661	0.29276024	2.2462667	21	—	—
42036 2000 YP_{96}	11.9	X	320.53396	132.86792	282.44163	6.50777	0.0383459	0.08304157	5.2032220	21	10 12.6	18.8
42037 2000 YQ_{96}	14.3	X	221.58128	30.26045	159.64127	1.34697	0.1238454	0.18237247	3.0796157	21	11 28.4	18.9
42038 2000 YO_{97}	14.3	X	25.79343	133.47584	125.59307	14.21503	0.1093971	0.21284263	2.7782008	21	7 16.5	17.4
42039 2000 YN_{98}	14.3	X	14.89756	246.70935	123.14937	14.46365	0.2620971	0.23100563	2.6305971	21	12 26.4	17.4
42040 2000 YS_{99}	14.0	X	72.52087	12.51204	310.01806	9.23596	0.1143702	0.18129078	3.0918535	21	12 7.4	18.6
42041 2000 YB_{100}	14.3	X	196.87503	151.40843	99.59799	4.22387	0.0871239	0.18707686	3.0277686	21	—	—
42042 2000 YR_{101}	14.9	X	197.43606	327.67972	151.20349	8.87084	0.1452565	0.22065159	2.7122601	21	8 10.5	19.2
42043 2000 YB_{102}	14.0	X	212.92436	331.80006	147.21544	13.68670	0.0325532	0.17282449	3.1920219	21	9 3.3	18.5
42044 2000 YF_{102}	14.5	X	218.29929	326.65016	144.85988	13.33721	0.1027785	0.22079076	2.7111203	21	8 27.1	18.4
42045 2000 YJ_{103}	13.5	X	352.36146	113.64079	269.43149	10.33383	0.0313377	0.17792612	3.1307105	21	10 27.7	17.9
42046 2000 YM_{103}	15.4	X	134.62008	143.94967	210.37751	6.63231	0.1862647	0.29322492	2.2438929	21	—	—
42047 2000 YV_{105}	13.9	X	161.99180	158.39239	137.14193	14.24568	0.1471599	0.23026274	2.6362521	21	—	—
42048 2000 YE_{107}	14.9	X	331.68218	104.20065	334.06608	2.00758	0.1649974	0.18673842	3.0314257	21	12 12.6	18.0
42049 2000 YG_{107}	14.9	X	282.29295	271.62549	83.39769	6.42602	0.0468834	0.21665873	2.7454819	21	6 20.1	18.5
42050 2000 YN_{107}	14.6	X	109.02064	347.00116	294.19529	8.90760	0.0446645	0.18316764	3.0706964	21	11 20.1	19.2
42051 2000 YX_{107}	14.9	X	220.71750	257.27632	85.44700	7.51004	0.1403314	0.25580975	2.4576761	21	3 16.0	18.8
42052 2000 YH_{108}	15.2	X	202.64073	116.44617	329.63309	2.51209	0.1397145	0.21766268	2.7370332	21	7 5.9	19.4
42053 2000 YO_{110}	14.8	X	169.82435	13.34292	312.20824	6.41599	0.1684816	0.29348136	2.2425856	21	—	—
42054 2000 YA_{111}	15.4	X	9.84247	338.63741	3.52634	1.76915	0.1521807	0.27454625	2.3445475	21	10 31.1	17.7
42055 2000 YB_{112}	15.2	X	201.94280	353.38278	332.38142	5.08102	0.1263422	0.29730015	2.2233404	21	1 26.4	18.3
42056 2000 YF_{114}	14.9	X	28.26547	97.24901	24.06018	2.22144	0.1078443	0.19796844	2.9156725	21	1 14.9	18.4
42057 2000 YW_{114}	15.2	X	122.82905	243.61061	100.06574	13.48575	0.0647601	0.24029784	2.5623363	21	—	—
42058 2000 YF_{115}	14.8	X	74.71943	358.72584	89.76850	3.26907	0.0138303	0.19838464	2.9115931	21	2 3.9	18.8
42059 2000 YG_{115}	15.0	X	61.09400	298.52430	98.75260	4.72621	0.1540403	0.24010601	2.5637009	21	—	—
42060 2000 YX_{115}	14.6	X	50.08014	247.54731	106.72117	9.89599	0.0696803	0.23057615	2.6338627	21	12 24.1	18.0
42061 2000 YE_{116}	15.2	X	281.29540	279.17874	86.88490	3.33804	0.2202505	0.26538017	2.3982276	21	6 5.6	18.1
42062 2000 YR_{118}	14.5	X	229.26546	289.00971	215.36433	12.03262	0.1312221	0.22819781	2.6521316	21	10 16.4	18.3
42063 2000 YS_{122}	15.3	X	332.32830	225.81485	161.95826	8.66363	0.2238640	0.27947766	2.3168859	21	11 1.7	16.8
42064 2000 YE_{128}	14.7	X	45.95605	326.06230	336.44622	6.24790	0.1720585	0.22259850	2.6964222	21	10 24.3	18.2
42065 2000 YJ_{128}	14.3	X	9.88598	269.69847	98.11996	12.61484	0.2422990	0.23038615	2.6353105	21	12 12.1	17.0
42066 2000 YF_{129}	15.6	X	35.71566	320.33088	49.40362	4.51656	0.1395981	0.28023847	2.3126907	21	—	—
42067 2000 YU_{131}	14.7	X	197.01910	162.16954	16.55214	1.56717	0.0847080	0.17757642	3.1348194	21	10 23.4	19.3
42068 2000 YA_{133}	13.0	X	323.16983	278.09851	10.89767	8.66760	0.0901001	0.15598703	3.4177770	21	5 15.4	17.7
42069 2000 YG_{135}	15.1	X	207.09917	314.71771	141.52047	6.70051	0.0976917	0.26960482	2.3731086	21	7 26.3	18.3
42070 2000 YM_{136}	13.9	X	250.22867	263.64387	198.29774	19.37496	0.1956363	0.17802146	3.1295926	21	9 1.1	18.9
42071 2000 YS_{137}	15.2	X	8.00937	117.89307	243.08520	3.29527	0.0659614	0.23040228	2.6351876	21	11 4.0	18.3
42072 2000 YS_{139}	15.7	X	345.95797	229.49698	113.99573	3.40005	0.2044772	0.26985825	2.3716226	21	9 16.7	17.1
42073 Noreen	14.2	X	168.12806	95.94402	46.31728	19.85509	0.1729958	0.16812138	3.2512779	21	8 20.1	19.9
42074 2001 AV_{2}	14.8	X	134.78324	177.57972	116.89101	15.07602	0.0733687	0.23291308	2.6162152	21	—	—
42075 2001 AL_{3}	14.3	X	185.04414	309.26324	126.42066	10.09619	0.1520052	0.21453937	2.7635334	21	6 7.0	18.9
42076 2001 AQ_{4}	13.9	X	226.39617	322.83855	127.69932	20.14303	0.1064108	0.17090322	3.2159001	21	8 6.4	18.7
42077 2001 AS_{4}	14.1	X	148.50985	104.61291	133.95904	12.90655	0.1263617	0.22676663	2.6632787	21	11 24.5	18.5
42078 2001 AT_{4}	14.7	X	107.47821	231.72178	148.59793	8.82054	0.2047959	0.24496310	2.5296995	21	1 7.0	17.7
42079 2001 AD_{7}	15.4	X	324.70052	225.21795	88.34869	8.97833	0.1417342	0.26583733	2.3954774	21	6 10.6	17.7
42080 2001 AL_{7}	14.7	X	13.94795	202.23805	122.86592	15.80789	0.1133818	0.22438868	2.6820616	21	10 7.3	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42081 2001 AX_7	15.5	X	238.91589	177.19227	224.74907	4.87021	0.1389189	0.26540546	2.3980753	21	6 15.3	18.9
42082 2001 AF_{11}	13.4	X	80.02825	133.52893	128.79896	23.90942	0.1498282	0.17328752	3.1863332	21	10 17.7	18.5
42083 2001 AU_{11}	14.6	X	105.16356	315.54023	249.15043	0.31763	0.0728139	0.16958508	3.2325429	21	8 17.5	19.2
42084 2001 AA_{12}	15.3	X	286.73089	344.88333	87.97576	3.71936	0.0285892	0.22606141	2.6688147	21	10 14.9	18.7
42085 2001 AD_{12}	15.5	X	27.97250	204.27570	147.25273	6.09250	0.2008194	0.27811368	2.3244550	21	12 22.0	18.3
42086 2001 AE_{13}	15.7	X	86.64463	204.71679	169.01559	1.46243	0.2265220	0.24199804	2.5503208	21	—	—
42087 2001 AB_{14}	14.4	X	13.25623	309.67507	129.85867	9.67707	0.0670794	0.18995806	2.9970747	21	—	—
42088 2001 AG_{15}	14.6	X	292.70564	343.88277	145.29052	10.11672	0.0758751	0.18428627	3.0582576	21	12 19.8	18.8
42089 2001 AQ_{15}	14.3	X	195.57558	36.05997	155.02561	10.92019	0.1652259	0.17751539	3.1355378	21	11 3.8	19.5
42090 2001 AF_{16}	15.2	X	353.01323	223.49793	132.74521	4.24763	0.2049168	0.27388806	2.3483022	21	10 28.5	16.9
42091 2001 AV_{16}	14.0	X	309.66690	310.27730	127.37018	22.60250	0.0448734	0.22784634	2.6548583	21	11 26.7	17.9
42092 2001 AU_{20}	15.3	X	356.60071	218.24378	140.98030	8.60280	0.1405388	0.27769314	2.3268012	21	11 4.6	17.6
42093 2001 AQ_{23}	14.9	X	17.27200	185.78359	114.16144	10.08011	0.1055073	0.21805916	2.7337146	21	9 1.7	18.2
42094 2001 AO_{24}	15.1	X	335.21723	256.29704	93.56407	4.71676	0.0892571	0.26950648	2.3736858	21	9 4.3	17.5
42095 2001 AY_{25}	14.9	X	58.42715	264.95191	99.28385	5.90644	0.1989898	0.23644535	2.5900940	21	—	—
42096 2001 AZ_{25}	14.2	X	202.30052	294.92353	345.10392	8.14660	0.0633683	0.19063884	2.9899353	21	—	—
42097 2001 AO_{28}	14.7	X	104.28345	316.09403	34.26927	6.87551	0.2582004	0.24141458	2.5544283	21	—	—
42098 2001 AS_{29}	15.3	X	141.03249	202.86120	51.48888	5.88087	0.0595912	0.28017267	2.3130527	21	12 11.1	18.5
42099 2001 AN_{30}	15.1	X	270.87322	61.95968	40.38282	4.43300	0.1718800	0.22901852	2.6457917	21	10 10.3	18.4
42100 2001 AL_{31}	15.0	X	89.23529	282.45254	67.94038	8.53956	0.1878920	0.24056043	2.5604713	21	—	—
42101 2001 AA_{34}	15.0	X	338.89119	120.39568	45.32799	4.93562	0.0269340	0.24426785	2.5344974	21	—	—
42102 2001 AF_{34}	14.3	X	65.82193	237.29384	96.03268	14.75364	0.1114004	0.23144243	2.6272862	21	12 22.5	17.8
42103 2001 AO_{34}	14.2	X	74.03574	179.38796	45.51442	7.09200	0.0665819	0.16995066	3.2279055	21	8 6.8	18.8
42104 2001 AS_{35}	14.1	X	5.82431	17.00255	78.39873	11.15768	0.0611209	0.19147483	2.9812261	21	—	—
42105 2001 AZ_{35}	14.1	X	277.01342	215.54858	350.09842	9.85334	0.0478419	0.19288081	2.9667210	21	—	—
42106 2001 AB_{38}	14.5	X	291.61494	64.98537	33.19180	11.75827	0.2076276	0.18094785	3.0957586	21	10 22.5	18.4
42107 2001 AF_{38}	14.2	X	212.30034	348.78417	23.73445	13.46479	0.2725923	0.25633730	2.4543030	21	4 9.0	18.5
42108 2001 AM_{41}	14.3	X	289.51470	356.08858	140.13251	11.41008	0.0136471	0.18368045	3.0649784	21	12 29.3	18.7
42109 2001 AX_{44}	15.1	X	256.40048	286.45976	79.80421	4.05166	0.1933183	0.26045820	2.4283467	21	5 12.8	18.7
42110 2001 AC_{45}	15.1	X	252.55303	252.14827	114.77758	9.46965	0.1870621	0.25979592	2.4324719	21	5 13.0	18.9
42111 2001 AZ_{46}	14.8	X	35.38878	352.17177	42.67187	24.72301	0.2138138	0.28506846	2.2864933	21	—	—
42112 2001 AF_{48}	13.5	X	231.36909	159.49149	192.40337	35.79774	0.1537176	0.20443675	2.8538429	21	4 6.9	18.0
42113 Jura	15.3	X	55.30517	232.85936	98.53751	7.32479	0.1482564	0.22947562	2.6422770	21	12 12.6	18.8
42114 2001 BH_4	12.4	X	312.11996	36.95192	32.11890	7.24985	0.0029660	0.08367234	5.1770390	21	10 23.9	19.1
42115 2001 BO_4	14.6	X	106.14942	303.74911	92.63737	14.16551	0.1853418	0.24501447	2.5293459	21	1 25.3	17.8
42116 2001 BY_5	15.4	X	357.48178	354.86371	25.34107	7.23004	0.1452508	0.27648113	2.3335962	21	12 2.8	17.6
42117 2001 BD_6	13.9	X	294.74797	79.60574	120.15249	12.38790	0.2082878	0.19683921	2.9268130	21	—	—
42118 2001 BO_6	15.4	X	276.54861	215.62710	72.01675	7.30469	0.0936425	0.25280051	2.4771411	21	3 8.7	18.9
42119 2001 BP_7	14.2	X	297.47161	173.11963	86.77334	6.93332	0.0890489	0.20175637	2.8790633	21	3 6.2	18.3
42120 2001 BU_7	14.9	X	171.59309	50.93567	45.13533	4.09842	0.0664398	0.21276379	2.7788871	21	6 16.2	18.9
42121 2001 BW_7	15.2	X	296.41063	222.84160	91.82580	8.25311	0.1282396	0.25879995	2.4387087	21	5 2.9	18.3
42122 2001 BC_8	15.1	X	81.79490	250.52519	78.76040	7.07479	0.2233772	0.28126440	2.3070635	21	—	—
42123 2001 BY_8	14.9	X	231.81091	85.42871	34.43731	4.94277	0.1229109	0.17519388	3.1631765	21	9 17.3	19.6
42124 2001 BA_9	14.0	X	153.55490	159.15362	117.24871	12.85372	0.1251092	0.18388486	3.0627067	21	—	—
42125 2001 BE_{13}	14.0	X	203.93420	60.14469	149.14140	13.17614	0.1358522	0.23169026	2.6254124	21	12 11.3	18.2
42126 2001 BC_{15}	14.0	X	130.58504	154.53114	101.51565	2.98160	0.1440873	0.17559675	3.1583365	21	11 19.8	19.1
42127 2001 BT_{15}	14.2	X	142.71647	205.84000	66.83475	2.93295	0.1092592	0.17967628	3.1103473	21	12 18.7	19.1
42128 2001 BV_{15}	14.1	X	330.47577	247.99322	133.17054	13.50444	0.1767041	0.22308064	2.6925357	21	10 5.7	16.9
42129 2001 BG_{17}	14.3	X	228.46227	244.80057	135.52116	12.79882	0.1997233	0.21495524	2.7599679	21	5 9.9	19.1
42130 2001 BW_{19}	13.8	X	218.01507	7.19662	160.32344	13.65710	0.0545563	0.17966866	3.1104352	21	11 8.5	18.5
42131 2001 BE_{21}	14.3	X	151.17646	353.88826	321.27282	10.62973	0.1001669	0.19091488	2.9870525	21	—	—
42132 2001 BP_{24}	13.7	X	124.42303	135.57316	117.96201	11.19166	0.1625762	0.17711408	3.1402725	21	11 15.5	18.9
42133 2001 BQ_{24}	14.6	X	219.95940	179.09416	112.84102	3.27115	0.0516268	0.19630017	2.9321686	21	1 18.6	18.8
42134 2001 BO_{25}	14.7	X	293.07449	348.97053	131.38690	6.25871	0.1456973	0.18405029	3.0608712	21	12 2.1	18.4
42135 2001 BK_{26}	14.1	X	36.54214	238.88134	123.78994	20.92858	0.0917397	0.18230335	3.0803941	21	12 13.7	18.6
42136 2001 BM_{26}	14.4	X	145.57841	178.30448	53.15790	1.12609	0.1551241	0.17615581	3.1516507	21	11 4.5	19.4
42137 2001 BO_{27}	14.3	X	127.03763	223.52478	346.71965	1.36909	0.1553582	0.17104364	3.2141399	21	9 23.8	19.3
42138 2001 BP_{28}	13.7	X	199.86415	66.38710	139.08517	12.57824	0.0223574	0.18107488	3.0943106	21	12 5.5	18.3
42139 2001 BQ_{29}	14.2	X	209.49242	272.37234	310.77349	8.92789	0.0683627	0.18580497	3.0415701	21	12 31.8	18.8
42140 2001 BM_{31}	14.8	X	9.15786	173.36304	137.59381	13.22979	0.0776043	0.21687442	2.7436613	21	8 30.6	18.1
42141 2001 BV_{31}	13.8	X	189.62490	332.51817	307.88249	4.24283	0.2374563	0.18559620	3.0438506	21	—	—
42142 2001 BY_{32}	13.9	X	186.73288	91.05225	148.92156	10.89216	0.1722794	0.17994114	3.1072945	21	12 19.4	19.1
42143 2001 BN_{37}	15.0	X	59.72618	182.71817	123.44100	13.88801	0.1636465	0.22568960	2.6717451	21	11 21.7	19.0
42144 2001 BW_{40}	14.2	X	100.14025	259.98650	68.88890	12.50359	0.2857255	0.23897031	2.5718171	21	—	—
42145 2001 BF_{41}	14.5	X	63.23639	266.79448	147.07894	10.18334	0.0902193	0.19255598	2.9700564	21	—	—
42146 2001 BN_{42}	11.9	X	316.81810	193.01309	251.57233	11.44838	0.0326672	0.08417062	5.1565872	21	11 11.9	18.7
42147 2001 BW_{43}	13.9	X	278.41733	359.81523	165.76420	17.46209	0.1246791	0.18481076	3.0524686	21	—	—
42148 2001 BC_{46}	15.1	X	280.84777	328.01442	168.04431	13.03704	0.0357617	0.23230068	2.6208112	21	12 26.7	18.7
42149 2001 BQ_{48}	15.0	X	35.20884	246.67583	201.68530	9.10255	0.0641445	0.19262609	2.9693357	21	—	—
42150 2001 BD_{53}	14.2	X	120.15704	162.29033	101.57877	6.56621	0.1138309	0.17653638	3.1471196	21	11 18.7	19.1
42151 2001 BD_{54}	13.9	X	79.61394	138.15930	142.62813	11.83004	0.1127148	0.17314927	3.1880291	21	10 30.1	18.7
42152 2001 BX_{57}	15.0	X	77.85395	232.03139	192.19781	1.61537	0.0700746	0.19541338	2.9410327	21	1 14.5	18.9
42153 2001 BG_{58}	14.9	X	63.63561	259.39578	129.86414	10.12941	0.0608809	0.23678942	2.5875844	21	—	—
42154 2001 BP_{62}	14.0	X	208.94401	51.14552	147.14959	13.23013	0.0906968	0.18089816	3.0963255	21	11 30.8	18.9
42155 2001 BA_{63}	15.2	X	296.67156	202.59979	178.91711	5.34371	0.2342793	0.26850312	2.3795956	21	7 17.0	17.7
42156 2001 BV_{63}	15.1	X	28.83997	160.47005	250.24808	4.13669	0.2801220	0.23760896	2.5816311	21	—	—
42157 2001 BX_{66}	14.8	X	322.13548	38.65418	126.79233	9.56864	0.0430055	0.19148059	2.9811664	21	—	—
42158 2001 BT_{70}	14.8	X	202.41564	245.45203	178.37811	4.98618	0.1531215	0.21480713	2.7612363	21	6 7.4	19.2
42159 2001 BT_{72}	14.2	X	16.91199	185.85566	167.62196	12.54124	0.1174388	0.17761444	3.1343719	21	11 7.2	18.3
42160 2001 BH_{73}	13.9	X	324.92768	186.45584	175.72773	21.89669	0.0164335	0.17015318	3.2253437	21	8 27.1	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42161 2001 BJ_{74}	14.5	X	162.80891	49.58028	203.80001	0.86498	0.1286330	0.17933106	3.1143377	21	12 14.9	19.4
42162 2001 BA_{76}	14.1	X	299.70625	209.20920	201.43784	8.69184	0.0343873	0.17285222	3.1916805	21	9 23.3	18.4
42163 2001 BC_{77}	15.4	X	64.13933	167.55632	90.89856	4.38123	0.1864225	0.25941942	2.4348249	21	10 1.9	18.6
42164 2001 CT	14.1	X	124.73431	3.14906	325.41447	8.92533	0.1794195	0.18775487	3.0204750	21	—	—
42165 2001 CQ_{10}	15.1	X	165.31310	186.74138	112.85518	14.44807	0.1716820	0.23687364	2.5869710	21	—	—
42166 2001 CL_{11}	15.6	X	293.26792	339.39937	35.89808	1.99354	0.1976164	0.26738455	2.3862275	21	7 10.2	18.2
42167 2001 CR_{13}	13.2	X	134.66160	119.05662	100.07942	5.56514	0.1329757	0.12480767	3.9655967	21	10 8.8	19.3
42168 2001 CT_{13}	11.6	X	101.31133	184.83906	120.09848	13.99101	0.0588054	0.08377688	5.1727315	21	11 29.7	18.7
42169 2001 CV_{13}	14.6	X	171.93809	217.35282	114.06113	12.69643	0.1379435	0.19494139	2.9457780	21	1 20.3	19.2
42170 2001 CA_{16}	14.7	X	191.10430	174.89443	119.22717	14.51914	0.1473528	0.23860607	2.5744338	21	—	—
42171 2001 CP_{17}	14.8	X	109.05831	262.95115	125.48480	15.12471	0.2097031	0.24349384	2.5398656	21	1 21.5	17.9
42172 2001 CR_{17}	14.1	X	309.74393	172.33282	114.17887	9.25012	0.0412187	0.15844953	3.3822737	21	5 6.1	18.9
42173 2001 CQ_{18}	15.0	X	19.17981	172.23692	139.24753	25.37054	0.2002310	0.26742734	2.3859730	21	10 18.7	18.0
42174 2001 CJ_{21}	14.7	X	140.24324	315.87119	35.16300	4.60334	0.2418867	0.29366854	2.2416326	21	1 6.4	17.5
42175 2001 CR_{21}	14.4	X	188.41442	161.27062	13.53984	5.25071	0.1084587	0.17592994	3.1543476	21	10 8.6	19.3
42176 2001 CK_{22}	12.4	X	243.66629	179.41700	329.25211	14.31149	0.0917082	0.08274297	5.2157324	21	10 19.2	19.7
42177 2001 CL_{22}	15.3	X	235.61423	285.66898	69.98358	3.94641	0.2002667	0.25734669	2.4478811	21	4 9.9	19.2
42178 2001 CO_{25}	14.9	X	102.71769	338.45438	350.88811	7.55914	0.1889398	0.23277785	2.6172283	21	—	—
42179 2001 CP_{25}	12.2	X	349.21386	318.74994	81.62467	6.61210	0.0557357	0.08184224	5.2539311	21	11 3.6	18.8
42180 2001 CL_{26}	13.9	X	322.69867	289.40588	140.61405	12.00189	0.1105517	0.17754791	3.1351549	21	11 19.2	18.0
42181 2001 CY_{27}	15.4	X	339.78264	349.79298	60.24702	7.70683	0.1904279	0.27795344	2.3253483	21	12 20.8	17.3
42182 2001 CP_{29}	12.1	X	351.08570	319.53181	93.16964	6.58093	0.0318743	0.08351300	5.1836219	21	11 18.9	18.8
42183 2001 CY_{29}	14.7	X	152.59691	150.26934	60.88702	6.19704	0.0878865	0.17510036	3.1643027	21	10 18.8	19.6
42184 2001 CP_{30}	13.8	X	174.12796	308.32870	25.88973	10.90820	0.1073950	0.19263431	2.9692513	21	1 27.4	18.5
42185 2001 CS_{30}	13.9	X	80.31625	270.30214	66.12552	10.34590	0.0884473	0.18064284	3.0992424	21	12 29.5	18.5
42186 2001 CH_{32}	13.4	X	93.76826	348.64552	288.21306	9.87075	0.1219463	0.17504950	3.1649156	21	11 3.6	18.3
42187 2001 CS_{32}	11.4	X	114.77318	257.42493	9.49440	24.18542	0.0326975	0.08295151	5.2069871	21	10 21.6	18.5
42188 2001 CZ_{32}	14.3	X	310.81153	282.44469	24.95158	17.21850	0.1684414	0.21018753	2.8015481	21	5 4.3	18.0
42189 2001 CJ_{33}	13.6	X	139.43402	185.27814	40.63645	14.58256	0.0778735	0.17518804	3.1632468	21	10 22.7	18.5
42190 2001 CM_{36}	13.1	X	156.51947	183.58623	40.15180	9.25599	0.0970718	0.12602431	3.9400328	21	10 30.3	19.1
42191 Thurmann	15.2	X	47.50257	250.98494	111.22049	8.43535	0.1983434	0.23408837	2.6074510	21	—	—
42192 2001 CJ_{39}	14.2	X	188.73243	168.41215	102.01148	16.32737	0.1247325	0.23552335	2.5968492	21	—	—
42193 2001 CV_{43}	13.4	X	41.28678	244.86718	87.32137	23.24831	0.1128714	0.17175083	3.2053109	21	11 17.4	18.0
42194 2001 DP_{10}	13.7	X	129.50323	33.07666	154.94254	12.97092	0.0599687	0.16956624	3.2327823	21	8 23.1	18.6
42195 2001 DO_{17}	12.8	X	45.28928	234.65755	132.81583	15.67379	0.2294068	0.18071550	3.0984116	21	—	—
42196 2001 DE_{21}	13.6	X	147.54471	309.96724	44.55541	11.09041	0.1102162	0.19022384	2.9942823	21	1 24.4	18.2
42197 2001 DM_{23}	14.3	X	40.18351	219.67165	130.07560	10.43553	0.0800366	0.17875849	3.1209843	21	11 29.3	18.7
42198 2001 DP_{23}	14.8	X	122.48699	234.16096	126.78074	11.47335	0.1188011	0.19152429	2.9807128	21	1 2.3	19.1
42199 2001 DT_{23}	14.2	X	250.41300	164.13423	0.81735	8.17983	0.0403136	0.18172997	3.0868701	21	12 11.0	18.7
42200 2001 DJ_{26}	12.0	X	7.49183	5.73800	10.66372	6.46671	0.0386322	0.07963913	5.3503849	21	10 26.7	18.8
42201 2001 DH_{29}	12.4	X	293.80497	213.44366	236.33730	7.09505	0.1595337	0.08371524	5.1752701	21	10 5.8	19.0
42202 2001 DC_{31}	14.2	X	342.03803	212.35322	135.02089	8.74344	0.0485878	0.16766645	3.2571564	21	9 2.2	18.6
42203 2001 DB_{35}	14.4	X	157.46031	168.89067	143.98286	6.29643	0.1049213	0.18953205	3.0015640	21	—	—
42204 2001 DW_{35}	14.4	X	354.48349	275.71643	154.69867	10.26589	0.0067502	0.18367409	3.0650492	21	12 29.6	18.8
42205 2001 DT_{38}	14.5	X	329.48934	169.85863	198.41900	5.74764	0.0272252	0.22054991	2.7130937	21	9 14.7	17.9
42206 2001 DJ_{41}	14.2	X	102.90314	143.33926	121.53338	1.46738	0.1055878	0.17392006	3.1786028	21	10 31.8	19.0
42207 2001 DL_{46}	15.1	X	195.52698	121.29056	228.55270	0.84963	0.0924918	0.19793723	2.9159790	21	3 2.6	19.6
42208 2001 DQ_{47}	13.6	X	87.09907	128.09871	167.85783	14.99099	0.2648454	0.17392806	3.1785054	21	12 7.5	19.0
42209 2001 DF_{48}	14.0	X	197.45598	270.50136	351.33419	10.25147	0.0894969	0.18861607	3.0112739	21	—	—
42210 2001 DL_{49}	14.1	X	151.80397	309.20510	26.68398	10.21005	0.1025776	0.19182653	2.9775811	21	1 3.9	18.7
42211 2001 DO_{49}	14.1	X	212.82571	193.38194	91.33475	11.65055	0.0772359	0.19173937	2.9784834	21	1 3.3	18.7
42212 2001 DO_{51}	13.8	X	170.06384	209.75219	60.21364	10.46034	0.0339790	0.18401812	3.0612279	21	—	—
42213 2001 DU_{51}	14.9	X	218.22955	347.47125	36.95011	11.68993	0.2903869	0.25876040	2.4389572	21	4 26.5	19.1
42214 2001 DA_{52}	13.7	X	59.11535	320.21393	16.42001	16.29530	0.1029883	0.17848549	3.1241661	21	12 3.9	18.4
42215 2001 DO_{52}	14.0	X	283.17883	175.01395	330.84499	14.43818	0.0453948	0.18574764	3.0421959	21	—	—
42216 2001 DX_{52}	15.2	X	23.76807	29.23163	7.65979	4.61952	0.1218257	0.23438043	2.6052845	21	—	—
42217 2001 DK_{53}	14.7	X	161.28425	221.28996	157.22334	11.26800	0.0882274	0.19765921	2.9187126	21	3 2.5	19.0
42218 2001 DN_{59}	14.1	X	133.41168	9.24290	226.73909	8.46278	0.0437157	0.17462684	3.1700204	21	10 23.7	18.7
42219 2001 DY_{59}	15.0	X	151.74164	346.51892	310.94276	3.94813	0.2018151	0.23498548	2.6008105	21	—	—
42220 2001 DC_{60}	14.6	X	70.73291	222.34250	152.49650	9.44420	0.0502547	0.18710554	3.0274591	21	—	—
42221 2001 DA_{62}	14.7	X	247.65467	326.46790	142.46893	10.39288	0.0713458	0.17616934	3.1514893	21	9 29.6	19.3
42222 2001 DT_{62}	14.2	X	20.82924	246.40252	158.48108	5.48331	0.0526973	0.18350386	3.0669445	21	—	—
42223 2001 DC_{63}	14.9	X	242.56570	12.83000	167.28869	2.22494	0.0057280	0.18216858	3.0819132	21	12 25.5	19.2
42224 2001 DT_{65}	13.9	X	197.28314	9.60578	157.56226	14.89688	0.0410747	0.17412341	3.1761276	21	10 16.3	18.7
42225 2001 DV_{72}	14.1	X	92.25468	136.85390	157.08177	9.69351	0.0780593	0.17510512	3.1642454	21	11 22.8	18.9
42226 2001 DO_{81}	14.2	X	265.87346	149.74257	124.97142	11.69827	0.0625019	0.19296681	2.9658394	21	2 18.3	18.5
42227 2001 DS_{93}	14.3	X	160.31381	132.45457	153.47151	9.95267	0.0635938	0.18635896	3.0355393	21	—	—
42228 2001 DO_{95}	13.7	X	56.08833	162.56192	197.91234	15.81961	0.0571806	0.17950524	3.1123228	21	12 25.2	18.4
42229 2001 DC_{99}	13.0	X	50.71875	132.54414	178.99807	21.97835	0.0730048	0.17147968	3.2086888	21	10 25.4	17.6
42230 2001 DE_{108}	12.5	X	278.15817	122.61574	7.43433	13.67066	0.0525587	0.08240774	5.2298680	21	11 11.9	19.5
42231 2001 EM_{1}	14.2	X	29.49157	316.24173	113.44147	11.15391	0.0237216	0.18675018	3.0312984	21	—	—
42232 2001 EH_{2}	13.9	X	151.61303	201.73087	97.81655	12.70519	0.0791413	0.18293519	3.0732971	21	—	—
42233 2001 EL_{2}	14.2	X	347.40906	0.42314	46.95691	11.68070	0.0639452	0.17834345	3.1258246	21	11 23.2	18.2
42234 2001 EP_{2}	13.9	X	353.10301	324.86629	30.92687	15.16017	0.2355072	0.21967375	2.7203030	21	10 16.5	16.1
42235 2001 EM_{10}	14.4	X	146.93633	197.53549	161.69675	15.23082	0.1771625	0.23811767	2.5779528	21	1 24.2	18.4
42236 2001 EP_{19}	14.3	X	333.35915	201.53100	200.64039	14.80083	0.0380290	0.17584364	3.1553796	21	10 29.9	18.6
42237 2001 EG_{21}	12.3	X	76.47744	108.68017	199.45602	9.04311	0.1293145	0.12480520	3.9656490	21	11 19.6	18.0
42238 2001 FF_{4}	14.7	X	327.55434	204.72141	50.68113	16.42387	0.1909525	0.24434507	2.5339634	21	3 25.0	17.9
42239 2001 FB_{20}	14.0	X	79.45059	184.81123	191.40238	11.97945	0.2404459	0.23144425	2.6272725	21	—	—
42240 2001 FX_{34}	13.9	X	91.77361	166.53716	162.10095	5.57037	0.1443165	0.17804880	3.1292723	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42241 2001 FF_{45}	14.8	X	319.89221	34.78042	182.26396	13.50688	0.1236674	0.24037166	2.5618117	21	1 21.4	18.4
42242 2001 FU_{61}	14.1	X	124.23467	145.01831	149.00199	9.71479	0.0579020	0.17873568	3.1212499	21	12 23.8	18.8
42243 2001 FB_{65}	14.0	X	10.88202	224.60561	169.08312	23.04866	0.0765040	0.17626387	3.1503624	21	12 12.7	18.6
42244 2001 FH_{65}	14.5	X	168.43326	308.27176	130.37361	6.90924	0.0425154	0.20362453	2.8614268	21	5 22.5	18.7
42245 2001 FB_{88}	14.0	X	61.68908	259.46415	93.49353	7.66636	0.2256858	0.22326733	2.6910345	21	—	—
42246 2001 FX_{121}	15.0	X	343.10282	10.14144	205.12598	4.42880	0.1735575	0.24209543	2.5496368	21	2 14.2	18.0
42247 2001 FU_{156}	14.8	X	331.29818	269.37017	112.61320	7.99623	0.0340693	0.21702253	2.7424128	21	10 10.5	18.4
42248 2001 FU_{186}	15.2	X	196.01501	222.73877	93.19930	4.13258	0.1775928	0.23864837	2.5741295	21	1 19.5	19.3
42249 2001 HZ_{27}	15.3	X	76.52027	56.83937	220.48128	3.76597	0.0826689	0.26049138	2.4281405	21	10 25.2	18.4
42250 2001 KS_{12}	13.1	X	105.92770	110.60579	225.05913	11.76398	0.1720722	0.16961840	3.2321194	21	—	—
42251 2001 LA	14.2	X	275.10883	336.70112	198.99631	25.00354	0.2077277	0.27054385	2.3676142	21	—	—
42252 2001 LU_{2}	14.4	X	323.32788	202.26637	71.45444	15.81115	0.0651792	0.24254782	2.5464655	21	4 29.3	17.7
42253 2001 NQ_{12}	15.6	X	314.84744	135.78641	137.78737	6.87186	0.1370922	0.28733121	2.2744733	21	3 26.6	18.3
42254 2001 NX_{21}	16.4	X	125.72925	341.06810	340.09980	2.16768	0.2031976	0.26374744	2.4081149	21	—	—
42255 2001 OT_{22}	15.9	X	258.04491	327.23891	13.37647	4.01603	0.1770763	0.28696901	2.2763868	21	4 9.3	19.1
42256 2001 OA_{63}	14.9	X	340.29782	54.27132	332.41828	3.74312	0.1377392	0.29478779	2.2359550	21	11 13.2	16.6
42257 2001 OU_{68}	14.4	X	134.07277	53.19047	285.65701	8.52317	0.2493132	0.21647179	2.7470623	21	—	—
42258 2001 OZ_{68}	14.5	X	41.11556	207.34398	130.60681	3.31956	0.1996772	0.25619929	2.4551843	21	12 16.1	17.6
42259 2001 OD_{81}	12.8	X	322.89073	12.45410	327.07333	9.84687	0.1239833	0.19032956	2.9931735	21	7 20.4	16.5
42260 2001 OX_{82}	13.8	X	140.23549	59.74158	8.18175	15.05465	0.0618668	0.23170617	2.6252922	21	4 1.5	17.4
42261 2001 OC_{92}	14.6	X	239.45093	31.26542	329.05811	12.28809	0.2132928	0.23583434	2.5945658	21	4 12.4	19.1
42262 2001 PE_{6}	14.1	X	345.35257	339.51242	137.47544	10.04461	0.1171296	0.21414626	2.7669143	21	—	—
42263 2001 PA_{42}	13.8	X	94.25643	86.90866	287.60244	7.85551	0.1701792	0.21408882	2.7674092	21	—	—
42264 2001 QZ_{30}	13.4	X	0.75261	310.20843	29.48258	15.22099	0.1333113	0.24365551	2.5387419	21	10 6.4	16.0
42265 2001 QL_{69}	13.4	X	345.08561	81.48714	212.33963	9.41892	0.0460718	0.19023901	2.9941232	21	6 26.8	17.4
42266 2001 QZ_{77}	15.2	X	180.29017	189.43653	222.55641	5.17042	0.1863083	0.27542031	2.3395845	21	4 29.7	18.8
42267 2001 QJ_{81}	14.1	X	277.80816	45.68268	337.38968	11.93851	0.2499707	0.23874505	2.5734346	21	6 21.4	18.0
42268 2001 QO_{91}	14.3	X	113.86524	216.79010	222.02939	9.35972	0.1935096	0.21810582	2.7333246	21	4 1.7	18.3
42269 2001 QB_{117}	14.2	X	230.96330	56.27452	332.45536	13.86221	0.1585854	0.23376380	2.6098640	21	5 15.1	18.7
42270 2001 QA_{139}	14.7	X	107.22303	120.70737	256.24530	7.72132	0.2186466	0.21329754	2.7742493	21	1 11.4	18.4
42271 Keikokubota	13.9	X	297.47185	310.50592	103.68165	10.26035	0.1914777	0.24264138	2.5458108	21	9 18.8	16.7
42272 2001 QH_{179}	15.2	X	91.55265	80.27785	0.59603	7.54213	0.1923246	0.26783441	2.3835547	21	3 1.7	17.6
42273 2001 QO_{245}	12.9	X	180.07934	214.26291	94.30241	8.12597	0.1877705	0.21368765	2.7708718	21	1 1.1	17.4
42274 2001 QM_{264}	16.2	X	175.63610	329.69136	21.35855	9.23843	0.2880167	0.27143267	2.3624428	21	2 18.5	20.3
42275 2001 RG_{17}	16.9	X	0.78115	299.72929	33.93963	3.26444	0.1831275	0.29602933	2.2296989	21	10 9.6	18.4
42276 2001 SV_{35}	14.1	X	221.63247	88.16039	28.27508	10.56370	0.0723964	0.19263717	2.9692219	21	9 11.2	18.5
42277 2001 SQ_{51}	12.1	X	107.31955	42.67025	115.38768	6.13857	0.0478292	0.08445344	5.1450686	21	6 20.9	19.0
42278 2001 SH_{265}	14.1	X	172.55712	262.55379	207.39891	9.28416	0.0615994	0.18373030	3.0644241	21	7 4.3	18.9
42279 2001 SP_{267}	14.7	X	348.77649	182.05640	77.40107	5.39768	0.0504190	0.22933100	2.6433878	21	5 15.9	18.0
42280 2001 SS_{267}	14.7	X	295.04083	27.26885	207.07350	8.94705	0.2064172	0.26826133	2.3810252	21	—	—
42281 2001 SW_{267}	14.9	X	274.03856	36.54520	196.48030	4.11090	0.0429445	0.21453747	2.7635497	21	1 4.2	18.9
42282 2001 SB_{283}	14.2	X	284.88454	83.27389	301.03336	11.71117	0.1925212	0.23476748	2.6024202	21	7 11.6	17.5
42283 2001 SQ_{316}	13.7	X	317.36856	59.04386	331.06898	11.91443	0.1907288	0.24117880	2.5560929	21	9 12.9	16.3
42284 2001 TV_{8}	12.9	X	319.78250	284.29651	47.03112	14.95724	0.2151059	0.23489773	2.6014581	21	6 15.4	15.8
42285 2001 TN_{40}	15.3	X	353.23110	127.84311	307.16667	4.99095	0.1031603	0.30022147	2.2088940	21	—	—
42286 2001 TN_{41}	16.6	X	129.32147	150.90173	55.84150	24.07111	0.3916906	0.58278360	1.4194862	21	11 2.9	18.6
42287 2001 TE_{51}	15.6	X	0.11701	179.04348	27.33270	3.74640	0.1144886	0.27626121	2.3348345	21	3 7.0	17.8
42288 2001 TC_{65}	15.4	X	320.40533	198.27017	134.80509	2.48291	0.2085148	0.23852892	2.5749888	21	6 22.4	18.0
42289 2001 TY_{105}	14.3	X	267.23137	344.48918	17.98405	4.35574	0.1375516	0.28162051	2.3051182	21	5 23.9	17.4
42290 2001 TU_{114}	14.5	X	203.36639	332.01812	344.47279	4.77429	0.0513269	0.21665205	2.7455384	21	1 27.4	18.4
42291 2001 TD_{121}	14.0	X	32.73425	220.18122	268.66468	11.66745	0.0993360	0.21641915	2.7475077	21	1 23.7	17.4
42292 2001 TN_{150}	14.5	X	298.94284	191.55752	133.74902	4.41292	0.1095650	0.18457166	3.0551043	21	5 27.0	18.6
42293 2001 UZ_{3}	15.6	X	235.22330	218.81701	184.49728	1.80891	0.0531789	0.23222715	2.6213644	21	6 22.5	19.3
42294 2001 UP_{5}	15.8	X	58.84323	241.96226	166.08664	4.13506	0.1016235	0.30750922	2.1738553	21	—	—
42295 Teresateng	15.1	X	49.57555	264.87277	102.20547	7.17500	0.1884262	0.29826465	2.2185447	21	—	—
42296 2001 UJ_{31}	14.8	X	63.30013	144.65480	98.39601	9.87406	0.1321264	0.23973661	2.5663338	21	8 31.8	18.2
42297 2001 UL_{73}	14.6	X	109.96939	354.53703	137.04271	1.52457	0.1717844	0.17584003	3.1554227	21	6 4.9	19.4
42298 2001 UP_{123}	14.8	X	139.31837	327.65518	174.33043	24.46732	0.1912721	0.28282672	2.2985596	21	7 16.9	18.9
42299 2001 UQ_{136}	13.2	X	130.15703	236.41170	71.99718	13.17063	0.1778008	0.20462578	2.8520851	21	—	—
42300 2001 UU_{140}	14.8	X	126.65279	93.20678	46.72859	1.63318	0.0767404	0.18103386	3.0947780	21	6 22.7	19.4
42301 2001 UR_{163}	4.1	X	80.79005	344.53971	301.38158	0.75314	0.2861713	0.00264173	51.8254824	21	11 1.7	21.4
42302 2001 VF_{10}	14.4	X	322.19874	64.87540	257.33233	15.85489	0.2416356	0.23772667	2.5807788	21	6 3.4	17.1
42303 2001 VO_{18}	16.6	X	212.14384	8.40334	334.15686	0.70997	0.0754172	0.27237437	2.3569945	21	3 1.4	19.8
42304 2001 VZ_{34}	13.9	X	310.85699	208.46669	66.99830	23.32382	0.0629605	0.17231720	3.1982835	21	4 25.6	18.6
42305 2001 VU_{44}	15.1	X	150.97077	15.91982	341.12682	1.91211	0.2122830	0.26440316	2.4041319	21	1 27.0	18.5
42306 2001 VU_{46}	14.7	X	196.14451	272.59024	89.81457	13.61045	0.1336278	0.21779339	2.7359380	21	3 24.3	19.3
42307 2001 VC_{48}	14.8	X	226.35997	163.24275	131.16003	2.83087	0.2016657	0.26517528	2.3994628	21	1 15.2	18.9
42308 2001 VM_{50}	14.3	X	351.46566	314.79812	340.53490	8.17546	0.0400991	0.18486505	3.0518710	21	7 10.8	18.4
42309 2001 VO_{86}	15.0	X	217.78277	227.39745	158.55879	2.84713	0.2325442	0.27557255	2.3387228	21	4 29.7	18.9
42310 2001 VB_{88}	14.2	X	198.71830	304.44300	147.55123	15.85523	0.1609143	0.23348197	2.6119638	21	7 8.4	18.6
42311 2001 VB_{93}	14.8	X	353.39762	129.93625	138.88993	11.58912	0.1279360	0.27996342	2.3142052	21	5 31.2	17.1
42312 2001 VY_{93}	14.6	X	321.08199	261.12697	122.80622	14.45366	0.0953342	0.24076685	2.5590077	21	9 30.0	17.7
42313 2001 VH_{97}	13.3	X	96.50478	175.83815	136.27121	18.95092	0.0434432	0.14728668	3.5510796	21	12 11.2	18.8
42314 2001 VQ_{121}	14.4	X	172.83856	78.63564	91.51898	9.85545	0.0329596	0.19050607	2.9913243	21	9 25.6	18.9
42315 2001 VW_{121}	14.1	X	249.62650	342.43505	119.13405	11.37789	0.0778389	0.19195166	2.9762870	21	9 25.1	18.5
42316 2001 WT_{37}	16.5	X	249.09538	213.66669	133.52184	3.26689	0.0871542	0.27791880	2.3255415	21	4 19.4	19.6
42317 2001 WW_{39}	16.2	X	60.78627	209.81965	142.30839	4.11410	0.1613314	0.30078289	2.2061445	21	—	—
42318 2001 XV_{1}	13.3	X	196.73033	190.65290	201.12328	29.43000	0.1888922	0.17466519	3.1695563	21	4 25.8	18.7
42319 2001 XU_{15}	15.7	X	320.03215	25.39327	192.83094	2.36430	0.1184283	0.26515570	2.3995809	21	1 20.4	18.7
42320 2001 XH_{17}	14.3	X	299.43523	200.57482	64.12703	10.32528	0.1200768	0.26844760	2.3799237	21	3 2.2	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42321 2001 XE_{24}	15.1	X	223.56754	16.22954	62.29538	5.37949	0.2816208	0.23059468	2.6337216	21	7 7.5	19.6
42322 2001 XS_{49}	15.4	X	338.49280	314.87218	75.22426	7.15817	0.1537963	0.29523369	2.2337031	21	11 19.2	17.1
42323 2001 XQ_{55}	15.2	X	254.24304	262.35675	134.68857	2.43845	0.1672978	0.18261381	3.0769019	21	6 23.9	19.9
42324 2001 XX_{62}	14.5	X	251.57806	88.70551	253.09962	4.67158	0.1414326	0.27371445	2.3492951	21	4 6.8	17.9
42325 2001 XB_{89}	15.4	X	132.33851	131.19279	38.41948	6.46532	0.1346142	0.28387928	2.2928743	21	8 17.4	18.8
42326 2001 XW_{104}	15.4	X	19.15036	117.51244	74.16933	7.22194	0.0465298	0.26940873	2.3742600	21	3 26.9	18.2
42327 2001 XQ_{108}	14.6	X	232.63533	354.74340	103.31638	10.52823	0.0636129	0.18229894	3.0804437	21	8 31.2	19.2
42328 2001 XM_{133}	15.0	X	224.00122	168.74636	109.30776	6.67847	0.1828213	0.26295138	2.4129727	21	—	—
42329 2001 XL_{169}	16.1	X	306.88421	44.56090	153.35628	3.01030	0.1125559	0.30839966	2.1696689	21	—	—
42330 2001 XC_{194}	15.5	X	278.07770	92.59931	254.87242	1.96790	0.1866146	0.27662327	2.3327968	21	5 10.6	18.6
42331 2001 XJ_{195}	15.8	X	354.98861	306.40581	132.08907	2.62281	0.0455913	0.24735206	2.5133850	21	—	—
42332 2001 XP_{211}	15.7	X	248.31113	275.70153	161.39076	4.46845	0.1216092	0.28518647	2.2858625	21	8 16.9	18.5
42333 2001 XM_{214}	14.2	X	340.58626	71.50638	126.24814	8.39960	0.1642991	0.21078407	2.7962598	21	1 28.3	17.4
42334 2001 XG_{222}	16.3	X	66.49081	304.02960	278.85440	1.67190	0.1957669	0.28179869	2.3041464	21	8 16.3	18.9
42335 2001 XX_{232}	16.0	X	310.06752	336.76084	350.05603	1.95120	0.2613699	0.28407726	2.2918089	21	5 11.7	18.5
42336 2001 XP_{247}	15.0	X	99.72284	335.28096	92.21834	4.74580	0.0781922	0.21262861	2.7800648	21	2 16.5	18.6
42337 2001 YK_{16}	15.8	X	168.89567	199.90200	295.33594	1.01057	0.0288880	0.23140864	2.6275420	21	8 3.6	19.5
42338 2001 YT_{80}	15.0	X	63.87823	222.77690	86.10519	4.44500	0.0960036	0.18946322	3.0022909	21	11 11.6	19.3
42339 2002 AX_{16}	14.5	X	4.99345	79.32480	136.54253	11.42254	0.0953027	0.21674635	2.7447419	21	4 14.0	17.9
42340 2002 AH_{23}	14.8	X	63.22499	90.87774	136.87699	12.68762	0.0152290	0.22718884	2.6599780	21	7 17.8	18.3
42341 2002 AK_{34}	15.3	X	335.22594	205.10106	171.84560	7.03837	0.1952223	0.28651218	2.2788059	21	10 21.2	16.7
42342 2002 AU_{58}	14.8	X	311.27035	183.26802	138.01608	15.51738	0.1093986	0.22297122	2.6934164	21	6 8.7	18.4
42343 2002 AB_{63}	14.8	X	107.04373	122.85576	184.13386	6.12855	0.0368510	0.19030018	2.9934816	21	12 20.8	19.3
42344 2002 AT_{90}	14.6	X	132.92681	36.88439	156.88946	24.25052	0.1893824	0.27638317	2.3341476	21	9 20.7	18.4
42345 2002 AN_{118}	15.5	X	356.31541	85.07707	319.24653	4.36669	0.1364366	0.29270696	2.2465393	21	—	—
42346 2002 AV_{131}	14.7	X	287.46984	308.84146	5.27908	6.60786	0.1350114	0.27627178	2.3347750	21	4 12.6	17.8
42347 2002 AV_{155}	15.1	X	74.85044	138.83327	136.10311	10.55963	0.2227817	0.27757927	2.3274375	21	11 12.7	18.7
42348 2002 BV_{9}	13.9	X	91.23217	215.21462	332.65566	14.40869	0.0218700	0.17058067	3.2199528	21	7 5.9	18.6
42349 2002 BH_{17}	14.4	X	101.61602	244.20065	128.68706	1.68632	0.0715282	0.15144062	3.4858428	21	—	—
42350 2002 BN_{19}	14.7	X	268.89256	270.57116	346.63303	13.88833	0.1800285	0.25330423	2.4738560	21	1 12.7	18.8
42351 2002 CB_{6}	15.0	X	299.19919	144.29395	140.94899	1.59458	0.1949698	0.26187949	2.4195526	21	3 14.1	18.3
42352 2002 CV_{32}	14.6	X	134.20786	331.20635	100.38481	10.46306	0.1427828	0.21476340	2.7616112	21	4 16.3	18.9
42353 2002 CZ_{41}	14.9	X	95.07139	43.85371	198.93835	12.29212	0.1376859	0.22917603	2.6445793	21	10 4.8	18.7
42354 Kindleberger	14.6	X	188.29608	20.62673	95.19173	15.88323	0.0545767	0.22357392	2.6885738	21	8 2.9	18.6
42355 Typhon	7.6	X	23.59099	158.90941	352.09294	2.43349	0.5344014	0.00425903	37.6931203	21	5 4.8	21.3
42356 2002 CA_{47}	16.2	X	7.39633	90.33394	164.71311	5.81802	0.0591073	0.27149902	2.3620579	21	6 5.9	18.8
42357 2002 CS_{52}	15.1	X	266.64393	198.09535	336.56682	6.74121	0.1478195	0.24076436	2.5590253	21	—	—
42358 2002 CO_{55}	14.6	X	272.69497	120.22706	182.15613	7.99605	0.2169622	0.25969603	2.4330956	21	3 4.2	18.5
42359 2002 CY_{63}	14.5	X	35.98839	241.30883	90.82815	12.27574	0.1103949	0.18390939	3.0624343	21	11 8.9	18.7
42360 2002 CG_{99}	14.7	X	342.94723	44.87551	100.51801	3.20755	0.0220551	0.19930365	2.9026358	21	—	—
42361 2002 CS_{101}	15.9	X	26.13647	0.06966	36.02302	3.25385	0.2057125	0.29427874	2.2385328	21	—	—
42362 2002 CY_{102}	14.9	X	260.28600	243.91863	110.75197	3.08261	0.1001923	0.21684159	2.7439382	21	5 15.3	18.9
42363 2002 CL_{103}	15.7	X	3.19758	230.47819	42.78495	3.29147	0.1763549	0.26776051	2.3839933	21	6 26.2	17.3
42364 2002 CS_{107}	15.3	X	56.24168	152.24767	137.91046	5.40860	0.1671420	0.27692798	2.3310853	21	11 2.9	18.3
42365 Caligiuri	14.4	X	249.00705	310.05571	83.31064	18.81440	0.0977630	0.22616419	2.6680061	21	6 20.5	18.2
42366 2002 CL_{125}	15.6	X	254.25513	176.98549	206.44013	2.67139	0.2457772	0.27617257	2.3353341	21	5 26.9	19.0
42367 2002 CQ_{134}	11.0	X	245.39644	341.90000	187.95550	29.04376	0.0429685	0.08268771	5.2180562	21	11 25.8	18.2
42368 2002 CC_{135}	13.5	X	34.07976	99.96984	109.26654	16.71474	0.0403916	0.17298209	3.1900828	21	5 23.2	18.0
42369 2002 CT_{135}	14.3	X	54.26406	269.08234	144.91615	10.70437	0.1922296	0.25555981	2.4592783	21	—	—
42370 2002 CB_{137}	14.8	X	63.86866	328.67553	282.87037	10.89621	0.1590763	0.22649753	2.6653878	21	9 6.1	18.5
42371 2002 CT_{141}	14.1	X	247.23227	234.90584	310.36235	7.72015	0.0311274	0.19052554	2.9911205	21	—	—
42372 2002 CD_{146}	14.6	X	171.93525	283.03843	328.00320	7.99226	0.0247247	0.18910002	3.0061340	21	12 27.4	19.0
42373 2002 CM_{174}	14.9	X	208.62399	207.06074	59.49553	5.60210	0.2035118	0.24390037	2.5370425	21	—	—
42374 2002 CB_{175}	14.1	X	95.86747	90.09314	161.39481	13.23907	0.1467819	0.22382130	2.6865924	21	10 20.9	18.3
42375 2002 CA_{233}	15.3	X	166.39153	324.20945	189.87659	0.97720	0.0839802	0.17788027	3.1312485	21	8 22.9	20.2
42376 2002 DQ_{2}	14.7	X	147.61688	113.92573	82.74746	23.75331	0.2219639	0.27906623	2.3191626	21	10 19.2	19.1
42377 KLENOT	15.6	X	27.66175	284.98121	294.61764	6.20588	0.1129302	0.26492981	2.4009447	21	5 18.6	18.0
42378 2002 EL_{12}	16.1	X	214.05700	131.41802	155.33054	1.18607	0.1857660	0.29680433	2.2258158	21	—	—
42379 2013 P–L	15.2	X	255.95970	346.39542	333.90181	4.06943	0.2258019	0.30212150	2.1996232	21	3 6.8	18.8
42380 2065 P–L	14.5	X	105.92260	13.37849	277.04946	4.42670	0.1449063	0.18091302	3.0961560	21	12 7.0	19.4
42381 2090 P–L	14.7	X	165.56818	48.38690	321.16972	4.85514	0.0897558	0.20207377	2.8760477	21	2 22.9	19.1
42382 2183 P–L	16.2	X	38.60632	116.94832	195.68291	4.01700	0.1872653	0.25936728	2.4351512	21	11 8.6	19.1
42383 2231 P–L	15.5	X	208.46018	213.05581	247.53350	1.29873	0.2161605	0.22307649	2.6925691	21	7 25.5	19.8
42384 2506 P–L	15.2	X	20.90627	316.27595	6.98100	12.00308	0.2121747	0.22686720	2.6624916	21	10 20.6	18.2
42385 2844 P–L	15.5	X	164.57729	205.65166	168.24893	2.28335	0.0905106	0.20226612	2.8742241	21	2 27.5	19.7
42386 3552 P–L	13.6	X	293.19425	230.18330	212.87544	16.92591	0.2045775	0.17643599	3.1483132	21	10 2.3	17.7
42387 4071 P–L	15.4	X	52.04551	109.02409	199.10004	5.43710	0.1017152	0.27591540	2.3367850	21	11 10.3	18.3
42388 4111 P–L	15.7	X	199.82073	65.87779	354.40366	4.30412	0.2065988	0.22172048	2.7035361	21	5 28.7	20.3
42389 4251 P–L	15.9	X	180.58954	223.98187	228.69287	5.22421	0.1214204	0.27093995	2.3653061	21	6 21.6	19.4
42390 4305 P–L	14.6	X	263.74988	82.19150	353.21615	11.30220	0.0891638	0.17566377	3.1575331	21	9 3.5	18.9
42391 4753 P–L	16.3	X	172.31661	192.00015	132.60733	2.52269	0.0589125	0.29806234	2.2195485	21	—	—
42392 4908 P–L	15.2	X	293.36260	82.50176	160.09625	5.42812	0.0534526	0.20252186	2.8718039	21	2 8.6	19.2
42393 6012 P–L	14.9	X	215.59909	226.08135	243.38475	3.49654	0.1276823	0.17392671	3.1785219	21	8 15.1	19.8
42394 6111 P–L	14.2	X	73.08440	334.88065	351.98607	9.75679	0.1236348	0.18080540	3.0973845	21	12 14.0	18.9
42395 6193 P–L	15.6	X	61.43495	137.32519	191.26163	12.37945	0.1229919	0.22883942	2.6471720	21	12 12.8	19.5
42396 6213 P–L	16.0	X	232.90295	216.63426	230.64130	2.51802	0.1444436	0.27285287	2.3542380	21	8 7.9	19.3
42397 6326 P–L	13.8	X	259.27464	202.71795	235.02526	1.14173	0.1065394	0.17527852	3.1621581	21	8 27.2	18.2
42398 6370 P–L	15.5	X	85.66913	72.13701	197.28838	12.15422	0.1458464	0.22753088	2.6573116	21	10 30.6	19.4
42399 6372 P–L	15.6	X	90.60569	85.19049	223.92949	2.62998	0.1447245	0.22949439	2.6421329	21	12 22.1	19.5
42400 6587 P–L	14.7	X	18.96701	293.57024	59.46120	2.17707	0.1945824	0.17942645	3.1132338	21	11 16.9	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42401 6589 *P–L*	14.3	X	88.69808	62.72042	7.59597	9.87448	0.2134241	0.20081787	2.8880263	21	2 28.8	18.0
42402 6619 *P–L*	15.7	X	189.97189	169.63038	166.07563	3.43537	0.2068747	0.29970982	2.2114073	21	1 30.1	19.1
42403 Andraimon	12.5	X	323.04528	29.76612	18.08283	8.14252	0.1139970	0.08153756	5.2670111	21	10 4.9	18.9
42404 7606 *P–L*	16.1	X	72.82901	249.81804	83.20056	3.04028	0.2609186	0.27825049	2.3236930	21	—	—
42405 9085 *P–L*	16.2	X	168.59818	323.11397	3.92237	4.00994	0.1970316	0.29840097	2.2178690	21	—	—
42406 9104 *P–L*	14.6	X	98.36436	143.87066	182.71813	13.04390	0.1377200	0.18175962	3.0865343	21	—	—
42407 9509 *P–L*	15.0	X	60.35719	125.34186	187.34397	10.91133	0.2599956	0.22894261	2.6463765	21	12 9.4	19.2
42408 9555 *P–L*	14.6	X	320.36023	26.83458	31.34113	6.21924	0.1835534	0.17750834	3.1356209	21	10 22.4	18.1
42409 1108 *T–1*	15.9	X	296.11431	120.60301	347.64954	5.52882	0.1119706	0.28723232	2.2749954	21	12 20.9	18.1
42410 3062 *T–1*	16.0	X	68.85654	267.85254	183.09270	2.35152	0.1391029	0.25447287	2.4662763	21	1 28.1	18.3
42411 3249 *T–1*	14.7	X	131.39427	48.32891	352.15625	4.87011	0.1073339	0.25435726	2.4670235	21	2 18.7	17.9
42412 4320 *T–1*	15.7	X	260.51597	117.25466	42.80645	3.45465	0.1022533	0.28759364	2.2730895	21	—	—
42413 1072 *T–2*	16.0	X	356.69341	289.63903	148.13016	1.03865	0.1484032	0.29212370	2.2495286	21	—	—
42414 1130 *T–2*	15.3	X	39.06868	49.64658	342.22556	6.59044	0.0822094	0.18930375	3.0039768	21	—	—
42415 1175 *T–2*	15.3	X	40.91563	338.98936	226.00641	0.81758	0.1328885	0.26174294	2.4203940	21	5 25.6	17.7
42416 1195 *T–2*	15.1	X	75.74498	293.63055	18.00574	3.04167	0.1549531	0.22934162	2.6433062	21	12 10.8	19.1
42417 1613 *T–2*	16.0	X	222.29695	59.88148	254.99836	2.07455	0.2330581	0.29984030	2.2107657	21	1 31.8	19.7
42418 2081 *T–2*	15.6	X	64.16858	203.20393	306.33917	2.53943	0.1232585	0.25888337	2.4381848	21	4 11.4	18.2
42419 2187 *T–2*	15.4	X	106.63407	145.90015	341.31158	2.08785	0.1533534	0.25967077	2.4332534	21	5 19.3	18.6
42420 2290 *T–2*	15.9	X	144.46915	205.16214	239.67136	1.68825	0.1679708	0.25947455	2.4344799	21	5 7.8	19.4
42421 2306 *T–2*	15.3	X	262.98936	148.15904	196.51383	0.77598	0.1994212	0.26189198	2.4194756	21	4 19.9	18.8
42422 3048 *T–2*	15.3	X	103.04215	129.75972	155.01130	2.53843	0.0748096	0.22911008	2.6450867	21	11 29.9	19.2
42423 3085 *T–2*	14.7	X	148.20302	154.45034	173.96386	10.15267	0.0926239	0.19246754	2.9709662	21	—	—
42424 3120 *T–2*	14.9	X	7.82968	27.82463	75.05790	3.63124	0.0667164	0.19157887	2.9801467	21	—	—
42425 3227 *T–2*	15.0	X	311.96057	319.59514	46.39841	6.70773	0.0596053	0.22421487	2.6834475	21	8 19.1	18.4
42426 4634 *T–2*	16.0	X	356.99746	139.78724	154.32436	7.04199	0.1073337	0.26461385	2.4028556	21	7 16.0	18.3
42427 5061 *T–2*	14.7	X	221.07267	27.93533	303.59879	6.09747	0.2371119	0.30034377	2.2082944	21	2 19.2	18.4
42428 5089 *T–2*	16.2	X	175.92770	67.29729	228.27197	7.71326	0.1487594	0.29575232	2.2310909	21	—	—
42429 5132 *T–2*	15.5	X	137.99093	248.66709	216.14132	12.85795	0.3128748	0.21796423	2.7345082	21	6 8.5	20.4
42430 5158 *T–2*	14.6	X	243.31759	355.42860	227.02091	12.49441	0.0319268	0.19146215	2.9813578	21	—	—
42431 1051 *T–3*	15.2	X	180.62595	143.93335	227.27103	14.02005	0.1816864	0.25893525	2.4378591	21	3 5.7	19.5
42432 1134 *T–3*	16.0	X	308.38453	28.35034	275.32888	5.82814	0.1269072	0.26350582	2.4095868	21	4 29.1	18.9
42433 1887 *T–3*	14.5	X	138.48181	273.87710	322.44864	8.23103	0.0345751	0.18030756	3.1030833	21	10 27.2	19.2
42434 2121 *T–3*	14.2	X	246.72199	108.75093	6.83764	14.83832	0.0949007	0.17827345	3.1266428	21	9 30.5	18.7
42435 2164 *T–3*	14.9	X	184.09236	226.15058	211.10072	7.72412	0.1790373	0.21725567	2.7404505	21	6 6.9	19.5
42436 2204 *T–3*	15.7	X	29.69380	358.64185	227.08006	6.11662	0.0900881	0.26307178	2.4122364	21	6 1.5	18.2
42437 2266 *T–3*	15.1	X	234.28059	183.28460	206.43291	15.33742	0.0699834	0.21825512	2.7320780	21	6 2.4	19.2
42438 2317 *T–3*	15.1	X	101.00512	160.79775	1.88651	2.92952	0.1150663	0.26252976	2.4155555	21	6 25.6	18.2
42439 2355 *T–3*	14.3	X	184.22488	89.62257	12.30443	11.60872	0.1710858	0.21833859	2.7313816	21	7 9.6	19.0
42440 2484 *T–3*	14.7	X	213.97562	125.13060	351.95134	5.13022	0.1353708	0.17418886	3.1753320	21	8 24.6	19.6
42441 2492 *T–3*	13.5	X	64.08568	355.37323	6.80681	11.76406	0.1338336	0.18316138	3.0707664	21	—	—
42442 2603 *T–3*	14.5	X	218.23917	328.21113	219.04126	14.33269	0.0991720	0.18221473	3.0813928	21	11 24.7	19.1
42443 2640 *T–3*	16.6	X	340.83323	124.87743	207.73296	6.81779	0.1406421	0.26691469	2.3890270	21	8 11.0	18.9
42444 3064 *T–3*	15.9	X	122.01393	94.57476	23.92517	7.63654	0.1667678	0.21563328	2.7541792	21	5 28.6	20.1
42445 3123 *T–3*	14.3	X	139.43827	60.03380	188.89354	7.91911	0.0559410	0.18147573	3.0897524	21	11 18.3	19.0
42446 3248 *T–3*	14.4	X	167.17366	136.85952	63.56982	2.09614	0.0994939	0.18001905	3.1063978	21	10 19.7	19.2
42447 3265 *T–3*	15.5	X	359.19578	169.05752	202.26684	5.09877	0.1279573	0.22497223	2.6774217	21	11 10.5	18.5
42448 3393 *T–3*	13.9	X	168.41463	122.88920	195.41425	9.90383	0.1038781	0.18747538	3.0234762	21	—	—
42449 3496 *T–3*	14.4	X	118.28739	105.67156	192.80421	9.32993	0.3450719	0.23064587	2.6333319	21	—	—
42450 3504 *T–3*	16.3	X	3.28433	299.83035	24.93723	5.82232	0.2331361	0.26847711	2.3797493	21	10 2.3	18.0
42451 3727 *T–3*	14.1	X	237.03105	27.20856	16.08708	16.37465	0.1118052	0.17390104	3.1788346	21	6 18.0	19.2
42452 3970 *T–3*	14.8	X	256.20435	281.56658	199.37648	17.79129	0.1407033	0.17883103	3.1201403	21	10 12.2	19.3
42453 4055 *T–3*	14.2	X	254.25540	135.40067	40.64333	9.82219	0.0306044	0.18365233	3.0652913	21	—	—
42454 4134 *T–3*	14.6	X	232.02523	338.32731	70.95077	3.69089	0.1925064	0.21880457	2.7275023	21	6 13.9	19.1
42455 4293 *T–3*	14.1	X	205.14176	65.42773	146.50325	6.31778	0.1941986	0.18362759	3.0655667	21	12 2.7	19.1
42456 4322 *T–3*	15.7	X	215.93486	303.06265	88.53510	6.22637	0.0633660	0.21716301	2.7412301	21	5 15.7	19.8
42457 4341 *T–3*	14.0	X	288.11808	16.40074	33.53192	22.25354	0.1636705	0.17625797	3.1504327	21	9 3.7	18.6
42458 4359 *T–3*	15.0	X	2.71815	288.30153	69.82568	6.89358	0.0575929	0.22430646	2.6827170	21	10 24.5	18.3
42459 5036 *T–3*	14.2	X	319.29564	2.51678	71.12710	11.12017	0.0831510	0.18061665	3.0995420	21	11 18.1	18.1
42460 5106 *T–3*	15.6	X	212.66026	222.76360	132.19610	7.49756	0.1469213	0.26014293	2.4303083	21	3 21.8	19.4
42461 5184 *T–3*	15.7	X	286.63613	163.95621	127.52780	7.25941	0.1043235	0.30608344	2.1806008	21	3 15.9	18.5
42462 5278 *T–3*	15.6	X	239.48456	258.93535	100.34692	8.69392	0.1513686	0.26206701	2.4183982	21	4 23.4	19.4
42463 5601 *T–3*	15.1	X	145.42718	90.56774	166.69910	13.17375	0.1501032	0.22776208	2.6555131	21	12 11.9	19.7
42464 1978 RQ_7	15.2	X	202.01596	143.52122	164.22156	4.15772	0.1488823	0.24153469	2.5535814	21	1 12.6	19.3
42465 1978 VH_4	15.5	X	182.83526	259.16200	229.08192	1.58918	0.1420483	0.26889826	2.3772639	21	8 9.9	19.1
42466 1978 VP_6	15.2	X	141.21131	12.92888	324.63811	1.56181	0.2116438	0.23598794	2.5934398	21	—	—
42467 1978 VX_6	14.5	X	33.20229	71.87109	62.31107	12.19457	0.1328977	0.23671870	2.5880997	21	2 2.1	17.4
42468 1979 QY_2	16.1	X	165.22865	334.97676	16.36256	1.31016	0.1863901	0.29427288	2.2385625	21	1 26.7	19.1
42469 1981 DN_3	15.6	X	196.26624	73.29555	254.28041	5.21796	0.2191527	0.29093294	2.2556625	21	1 26.4	19.2
42470 1981 EO_{16}	15.5	X	123.11151	141.12287	217.64452	7.97685	0.1956302	0.28935849	2.2638374	21	—	—
42471 1981 ES_{16}	16.0	X	225.54423	294.01178	315.89855	3.11745	0.1440301	0.23928605	2.5695543	21	—	—
42472 1981 EN_{25}	15.8	X	285.99457	340.21225	171.74906	3.38154	0.1112508	0.28714475	2.2754579	21	—	—
42473 1981 ED_{26}	15.7	X	221.32496	32.66948	185.80628	5.12469	0.1090142	0.28631005	2.2798783	21	—	—
42474 1981 EJ_{27}	16.4	X	219.45017	321.15613	282.52019	0.74352	0.1974359	0.28696428	2.2764117	21	—	—
42475 1981 EW_{28}	16.2	X	256.06139	238.16733	287.02226	3.12523	0.0601703	0.28592584	2.2819202	21	—	—
42476 1981 EP_{36}	14.5	X	148.46381	105.49251	248.25435	8.73445	0.1001714	0.19287585	2.9667718	21	1 18.0	19.0
42477 1981 QB_3	14.4	X	165.56160	212.31902	138.34981	3.47134	0.2699242	0.18443659	3.0565956	21	2 15.0	19.5
42478 Inozemtseva	13.5	X	6.11676	104.73170	270.53323	12.16094	0.2049214	0.22449470	2.6812171	21	12 7.1	16.3
42479 Tolik	13.6	X	64.44164	269.94317	67.39165	6.54593	0.1188757	0.22555603	2.6727998	21	12 25.4	17.3
42480 1985 *RJ*	14.8	X	142.16764	119.79971	182.50896	12.11110	0.2837665	0.22902387	2.6457505	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42481 1988 CX_4	14.9	X	354.14962	182.46188	192.32703	8.73018	0.0067089	0.22466025	2.6798998	21	10 29.9	18.5
42482 Fischer–Dieskau	15.7	X	314.88953	11.63085	7.50275	2.45093	0.2313537	0.26772220	2.3842207	21	8 22.5	17.6
42483 1990 VM_1	14.5	X	34.65862	162.08577	239.08063	9.79740	0.2372183	0.25963131	2.4334999	21	—	—
42484 1990 WM_6	16.0	X	144.27594	222.61983	176.33120	2.53736	0.1658891	0.30098700	2.2051470	21	3 3.3	18.9
42485 Stendhal	16.4	X	225.87390	27.79815	113.37563	1.67964	0.2231283	0.28045290	2.3115117	21	10 5.1	19.6
42486 1991 GY_2	15.6	X	170.37340	348.55462	196.76944	5.27922	0.0936790	0.27528688	2.3403405	21	10 14.1	18.7
42487 Ångström	15.2	X	241.49301	61.83565	279.55656	3.84276	0.1361652	0.25232730	2.4802372	21	3 29.1	19.0
42488 1991 RN_{17}	14.9	X	95.28532	198.83211	177.14234	9.60861	0.2284710	0.27454689	2.3445439	21	—	—
42489 1991 RL_{18}	14.5	X	5.26371	223.20767	179.51657	12.74677	0.1833407	0.23523419	2.5989769	21	—	—
42490 1991 SU	14.2	X	303.90740	285.05412	109.75248	8.38715	0.1389132	0.26262316	2.4149827	21	9 10.5	16.7
42491 1991 TF	14.9	X	326.33557	199.14873	173.28383	14.63760	0.2626362	0.22876766	2.6477255	21	8 27.8	17.0
42492 Brüggenthies	15.8	X	338.46593	43.84819	259.14420	4.30782	0.2085291	0.29219306	2.2491726	21	6 10.7	17.2
42493 1991 TG_{14}	13.8	X	113.04745	217.57940	162.47797	11.22893	0.2166556	0.17702953	3.1412722	21	1 28.6	18.4
42494 1991 UH_1	14.4	X	263.67479	139.23468	78.97589	8.24977	0.1432008	0.23848200	2.5753266	21	—	—
42495 1991 VP_{12}	15.0	X	201.77447	238.37155	73.40560	5.50948	0.1260807	0.24237813	2.5476539	21	1 17.7	18.9
42496 1991 XB_1	13.8	X	315.35891	357.88038	85.95898	14.53043	0.2059189	0.22955447	2.6416719	21	12 1.4	16.2
42497 1992 BZ_1	15.0	X	189.25716	224.11420	228.28940	4.95936	0.2008798	0.21700076	2.7425963	21	6 29.4	19.6
42498 1992 DG_6	14.4	X	130.58480	134.31474	357.84833	9.02634	0.0838000	0.21140519	2.7907801	21	6 17.1	18.6
42499 1992 PE_3	14.9	X	184.15960	112.97339	238.63679	5.52376	0.1956005	0.29193737	2.2504857	21	2 12.3	18.5
42500 1992 RV_6	14.3	X	110.58620	246.29709	80.98051	2.20244	0.1905656	0.17937357	3.1138456	21	—	—
42501 1992 YC	14.9	X	121.65914	129.94214	264.68225	24.57534	0.2816178	0.28561867	2.2835559	21	2 5.2	18.4
42502 1993 CS_1	14.4	X	341.52574	94.23037	29.94957	2.21990	0.1713703	0.24024841	2.5626878	21	—	—
42503 1993 FU_4	14.7	X	211.04409	340.24699	175.44185	14.13037	0.1395826	0.22760208	2.6567574	21	10 12.8	18.8
42504 1993 FC_8	15.5	X	355.85124	347.85418	69.95625	2.91219	0.0372462	0.23181452	2.6244741	21	12 29.3	18.8
42505 1993 FC_{20}	15.5	X	54.67415	27.35105	135.05742	7.19361	0.0396684	0.28172789	2.3045324	21	4 6.4	18.1
42506 1993 FA_{21}	15.1	X	348.43737	109.80410	188.42089	9.43440	0.0540612	0.21758672	2.7376702	21	7 7.1	18.7
42507 1993 FJ_{25}	14.9	X	305.46422	96.03190	348.85046	3.71908	0.0361735	0.22902252	2.6457609	21	11 22.5	18.2
42508 1993 FR_{30}	15.3	X	196.51069	26.89881	244.34258	3.13777	0.2209425	0.23421252	2.6065295	21	—	—
42509 1993 FV_{33}	14.2	X	66.12655	267.76284	161.80675	7.23284	0.1686399	0.24028179	2.5624505	21	—	—
42510 1993 FX_{55}	15.2	X	207.24878	247.71818	39.60494	6.86298	0.1880847	0.23685348	2.5871178	21	—	—
42511 1993 FD_{77}	15.5	X	108.75239	60.25378	221.25593	0.79020	0.0994611	0.22734354	2.6587712	21	12 3.2	19.3
42512 1993 FW_{81}	14.9	X	79.99970	315.19893	29.95296	14.36013	0.1486405	0.23100278	2.6306187	21	—	—
42513 1993 SH_{15}	15.3	X	228.81552	285.85785	81.04500	5.40132	0.1916560	0.30647535	2.1787414	21	4 15.7	18.8
42514 1993 TG_{17}	14.6	X	71.65807	330.12355	33.58314	3.18503	0.0193394	0.18339176	3.0681942	21	—	—
42515 1993 TJ_{33}	14.5	X	74.27908	285.36805	51.00910	7.53872	0.1063867	0.18089695	3.0963393	21	12 24.9	19.1
42516 Oistrach	14.5	X	312.26841	229.65967	124.14171	3.98507	0.2132709	0.20656170	2.8342371	21	7 7.3	17.6
42517 1993 XU_1	13.9	X	275.34260	219.74599	233.69673	23.41682	0.2608806	0.27797276	2.3252405	21	9 16.0	17.1
42518 1994 AH_6	15.1	X	78.75084	89.55439	289.67326	4.91083	0.1870266	0.28757077	2.2732100	21	—	—
42519 1994 AU_6	13.9	X	68.70548	204.98350	123.24558	2.47138	0.1772849	0.17290041	3.1910875	21	12 16.8	18.6
42520 1994 AB_8	16.4	X	111.48961	127.18471	31.35950	1.74830	0.1167734	0.26506931	2.4001023	21	7 3.6	19.7
42521 1994 BO_3	13.4	X	19.69934	259.27051	133.17400	16.61003	0.2379698	0.17491635	3.1665216	21	—	—
42522 Chuckberry	15.7	X	77.47048	75.05753	96.14768	3.10623	0.1438265	0.26071347	2.4267613	21	6 9.3	18.5
42523 Ragazzileonardo	15.5	X	102.34997	210.56347	146.67039	25.24462	0.2234738	0.28525661	2.2854878	21	—	—
42524 1994 PN_5	14.9	X	260.46773	275.97436	150.22411	2.87334	0.0697351	0.21835270	2.7312640	21	8 22.4	18.6
42525 1994 PU_{18}	15.6	X	55.27606	325.38524	1.92773	1.88070	0.0879160	0.22501233	2.6771035	21	11 27.4	19.2
42526 1994 PA_{36}	14.8	X	82.14525	155.10111	165.74802	2.22802	0.0920633	0.22790571	2.6543972	21	12 22.3	18.5
42527 1994 TO_2	13.7	X	320.86891	320.00112	31.26185	9.62934	0.1638123	0.21526520	2.7573179	21	7 31.4	16.9
42528 1995 FX_7	15.1	X	66.07576	44.89422	98.43471	4.95346	0.0592276	0.22805362	2.6532494	21	4 5.9	18.5
42529 1995 FA_{16}	15.3	X	161.65394	151.34374	190.94924	6.24425	0.1992488	0.29417952	2.2390361	21	1 11.3	18.5
42530 1995 GA	15.4	X	268.87583	109.73276	136.83023	8.14002	0.1154295	0.29577937	2.2309550	21	—	—
42531 McKenna	16.1	X	148.67691	344.30141	315.75334	7.08050	0.3260929	0.28076315	2.3098085	21	—	—
42532 1995 OR	15.3	X	160.70440	269.02840	63.36887	4.82017	0.2225296	0.28481630	2.2878427	21	1 3.4	18.6
42533 1995 SM_{19}	15.1	X	271.07282	121.59707	14.34472	12.11136	0.0577789	0.23233181	2.6205770	21	12 8.4	18.7
42534 1995 UL_7	14.5	X	343.66856	342.04170	25.04030	2.39326	0.2201423	0.26441428	2.4040645	21	10 19.3	16.0
42535 1995 VN_9	15.9	X	242.88826	297.38616	357.14567	1.52609	0.0967298	0.24729899	2.5137446	21	2 5.2	19.4
42536 1995 VX_{13}	15.3	X	215.71352	78.42677	165.04412	4.37306	0.0391865	0.23708370	2.5854427	21	—	—
42537 1995 WZ_1	14.4	X	84.58419	154.86363	250.18183	8.57243	0.1279734	0.23940989	2.5686681	21	—	—
42538 1995 WZ_7	13.9	X	105.44471	94.40254	277.32144	10.74670	0.1745015	0.23726714	2.5841099	21	—	—
42539 1995 WQ_9	16.1	X	193.34752	157.74978	26.93649	3.50249	0.1062021	0.22745804	2.6578789	21	10 31.0	20.1
42540 1995 WX_{17}	16.1	X	182.52350	287.48419	7.87665	2.89953	0.1009341	0.23985652	2.5654784	21	—	—
42541 1996 AQ	14.7	X	223.09983	341.09574	90.23443	4.24869	0.0915468	0.21323184	2.7748191	21	7 11.6	18.8
42542 1996 AX	14.4	X	124.35114	353.43914	104.98984	5.66107	0.1067721	0.20538463	2.8450556	21	5 2.9	18.6
42543 1996 BR	14.7	X	266.16172	340.12814	96.94774	10.65356	0.1464015	0.21973354	2.7198095	21	9 6.7	18.5
42544 1996 EL_2	15.0	X	349.05618	9.74697	189.44609	5.10830	0.0503234	0.19808550	2.9145237	21	2 27.1	18.8
42545 1996 FR_2	14.4	X	150.45441	292.78256	332.42505	8.82937	0.0918446	0.18159577	3.0883907	21	12 17.7	19.3
42546 1996 GF_1	14.6	X	251.19795	31.14162	118.13176	2.92388	0.0520985	0.29532932	2.2332208	21	12 15.6	17.0
42547 1996 GY_{19}	14.3	X	109.16056	138.66655	99.08192	2.62251	0.1293150	0.17089314	3.2160266	21	10 8.7	19.2
42548 1996 HU_{12}	14.5	X	79.22723	82.87233	41.99870	5.88738	0.0329259	0.27273184	2.3549344	21	3 20.7	17.2
42549 1996 HJ_{17}	14.7	X	73.96325	87.04452	216.77070	5.17786	0.0455838	0.25126760	2.4872058	21	11 20.1	18.0
42550 1996 HU_{23}	15.0	X	313.68037	23.06857	212.87033	5.69144	0.0657015	0.26997861	2.3709177	21	2 10.1	18.1
42551 1996 JH_{14}	14.3	X	120.72688	291.27423	54.55842	10.21455	0.0433079	0.18387448	3.0628219	21	—	—
42552 1996 RH_{25}	15.4	X	212.69713	119.10155	350.08787	4.74751	0.1808926	0.27209071	2.3586323	21	8 14.4	18.9
42553 1996 RN_{25}	15.6	X	88.43650	245.66171	169.01085	5.96270	0.1046010	0.25374433	2.4709947	21	1 6.4	18.4
42554 1996 RJ_{28}	11.7	X	70.28754	133.79074	178.54385	17.52011	0.0291929	0.08490328	5.1268790	21	10 31.9	18.6
42555 1996 RU_{31}	12.5	X	35.81413	187.52061	165.27570	6.43727	0.1131928	0.08215173	5.2407276	21	11 13.7	19.1
42556 1996 TA_8	15.9	X	58.24437	164.39416	231.09290	0.22796	0.1330222	0.28683358	2.2771033	21	—	—
42557 1996 TB_{67}	15.9	X	216.22024	338.67536	207.38296	3.22146	0.0614699	0.28161010	2.3051750	21	12 12.9	18.6
42558 1996 VV_{15}	15.8	X	66.01742	174.71893	58.69920	3.45674	0.1352783	0.26780503	2.3837291	21	8 22.4	18.7
42559 1996 VH_{28}	15.9	X	38.13297	134.84292	153.87306	7.04933	0.1393442	0.27153581	2.3618445	21	9 30.4	18.5
42560 1996 VL_{30}	15.4	X	238.57037	151.26160	239.81580	5.85610	0.1874498	0.30487465	2.1863609	21	5 25.4	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42561 1996 XK_6	15.4	X	176.31765	232.38409	207.19208	1.28114	0.1457056	0.26070834	2.4267932	21	5 31.7	19.1
42562 1996 XZ_{17}	16.2	X	125.79473	312.19342	19.76860	1.26712	0.1958540	0.28692681	2.2766100	21	—	—
42563 1996 XK_{22}	15.9	X	10.20653	288.08852	33.05745	3.06128	0.1967348	0.26688661	2.3891946	21	10 5.9	17.7
42564 1996 XF_{23}	15.5	X	104.62064	119.55719	139.61936	7.13592	0.0916704	0.27439933	2.3453843	21	11 9.6	18.9
42565 1996 XF_{24}	15.3	X	319.23532	188.89145	63.85306	11.11708	0.1890084	0.25789474	2.4444119	21	3 3.9	18.6
42566 Ryutaro	15.0	X	287.39450	268.60261	127.86510	5.99695	0.2404420	0.27051050	2.3678088	21	7 24.3	17.8
42567 1996 XF_{33}	14.5	X	346.67157	333.22804	55.76501	7.38725	0.1357390	0.27855718	2.3219871	21	11 26.1	16.5
42568 1996 YC	14.4	X	123.77639	226.24761	287.17079	22.97095	0.2081567	0.25839241	2.4412722	21	7 18.0	18.2
42569 1996 YC_1	14.8	X	20.72755	290.82510	272.75704	6.40657	0.1487561	0.25213736	2.4814827	21	4 9.8	17.2
42570 1996 YA_2	14.1	X	131.86801	33.16895	108.17433	9.75784	0.2114763	0.25795330	2.4440419	21	7 12.1	18.0
42571 1996 YL_3	14.3	X	125.70585	143.05830	296.43776	7.34234	0.1266886	0.25334859	2.4735673	21	4 1.6	17.8
42572 1997 AO	14.8	X	200.78238	314.87992	116.43724	23.87188	0.2040521	0.26050812	2.4280365	21	6 16.1	19.1
42573 1997 AN_1	14.1	X	180.95845	233.85055	299.54303	12.20555	0.1057582	0.22646314	2.6656576	21	9 27.5	18.4
42574 1997 AE_3	14.3	X	4.87386	39.22087	97.68428	14.89602	0.1067929	0.24343635	2.5402655	21	—	—
42575 1997 AD_4	15.0	X	341.12931	150.82544	324.78290	3.54547	0.0844529	0.23859245	2.5745317	21	—	—
42576 1997 AP_5	14.9	X	53.91751	352.66399	66.22127	5.45126	0.1952621	0.24239892	2.5475082	21	—	—
42577 1997 AB_{18}	14.4	X	262.31786	94.22287	350.52214	6.58950	0.0735265	0.26623052	2.3931182	21	9 22.4	17.4
42578 1997 BD_5	15.9	X	296.22779	143.53059	191.88781	2.11814	0.2133195	0.25843274	2.4410182	21	5 15.2	19.1
42579 1997 BV_5	15.0	X	20.53761	321.43444	133.98384	0.07867	0.1332498	0.24027406	2.5625054	21	—	—
42580 1997 CX_{22}	15.4	X	37.74698	38.26938	60.84631	0.59319	0.0724819	0.24363754	2.5388668	21	—	—
42581 1997 CB_{29}	15.2	X	248.25466	35.65748	148.34729	5.07130	0.0082952	0.23367031	2.6105601	21	—	—
42582 1997 EW_4	15.1	X	72.69974	231.02679	7.23648	5.12033	0.0797876	0.21627964	2.7486891	21	8 25.9	18.7
42583 1997 EP_{33}	14.3	X	215.61584	70.06622	137.29818	23.48715	0.1235117	0.23242132	2.6199042	21	12 23.9	18.4
42584 1997 ET_{46}	14.4	X	142.02040	80.22702	200.52624	10.05847	0.1186029	0.18669925	3.0318497	21	12 27.9	19.4
42585 Pheidippides	14.9	X	128.06130	60.93322	186.76568	12.30041	0.0778217	0.22397101	2.6853950	21	11 12.2	19.0
42586 1997 FG_3	14.8	X	262.60468	248.25910	187.39918	4.91741	0.0738340	0.22015321	2.7163519	21	9 5.4	18.4
42587 1997 GW_6	14.1	X	355.24253	128.45643	217.95971	16.90990	0.1413242	0.21594344	2.7515413	21	9 23.4	17.3
42588 1997 GU_{15}	16.4	X	75.76197	101.16274	183.83769	6.31046	0.0327084	0.30280232	2.1963249	21	11 4.9	18.9
42589 1997 GP_{33}	14.9	X	289.00929	256.52689	185.19538	2.89141	0.0686679	0.22372459	2.6873665	21	10 23.3	18.1
42590 1997 GW_{34}	14.8	X	240.25316	234.85544	195.06522	8.03666	0.1250158	0.21709399	2.7418110	21	7 23.6	19.0
42591 1997 GE_{42}	15.1	X	64.14357	186.67442	92.31749	4.06967	0.1671785	0.21633106	2.7482536	21	10 20.3	18.9
42592 1997 HT	15.2	X	21.54074	47.78282	190.85767	1.44782	0.0388596	0.20872219	2.8146451	21	6 6.4	18.7
42593 Antoniazzi	14.8	X	76.71030	202.34903	80.44806	7.81316	0.2268736	0.21835877	2.7312133	21	11 14.9	19.0
42594 1997 JQ_1	14.7	X	31.67694	35.39898	205.27064	8.45363	0.1589556	0.20935728	2.8089500	21	7 4.9	18.0
42595 1997 PL	15.2	X	32.39924	158.08964	230.22279	6.11884	0.1346983	0.29978849	2.2110204	21	—	—
42596 1997 SB	16.6	X	154.59978	196.79196	204.32183	22.44944	0.0956846	0.35429351	1.9780044	21	2 23.8	19.4
42597 1997 SR_5	15.6	X	79.23311	7.11579	351.20760	3.75929	0.0592649	0.30000156	2.2099734	21	—	—
42598 1997 UD_8	14.9	X	262.08709	233.87232	4.40459	7.21742	0.1793055	0.26441446	2.4040634	21	—	—
42599 1997 UT_{22}	13.4	X	86.09503	22.05772	344.29651	6.04146	0.2339530	0.17285826	3.1916062	21	—	—
42600 1997 YF_{10}	14.1	X	238.31102	99.69965	50.04876	3.47672	0.2432448	0.28232420	2.3012862	21	10 27.3	17.1
42601 1998 AN_{10}	15.2	X	30.62647	217.45834	232.45087	2.97471	0.0816674	0.29418958	2.2389850	21	—	—
42602 1998 BX_6	15.2	X	1.14364	12.05094	111.30764	5.27144	0.1138851	0.29368715	2.2415379	21	—	—
42603 1998 BP_{12}	15.0	X	167.53707	83.72651	114.31651	4.34282	0.0986618	0.28048427	2.3113394	21	10 29.9	18.3
42604 1998 BT_{15}	14.3	X	290.75083	107.47901	356.14900	6.30258	0.1170424	0.28405484	2.2919295	21	11 30.9	16.7
42605 1998 BR_{25}	16.5	X	212.63511	140.02635	54.02470	0.99054	0.1215636	0.28367626	2.2939682	21	12 10.8	19.6
42606 1998 DD	15.1	X	192.39730	92.20586	58.90128	7.30103	0.2090058	0.27489782	2.3425481	21	9 19.9	18.9
42607 1998 DQ_{10}	14.5	X	126.94445	139.70144	163.38963	6.29973	0.1692993	0.28091327	2.3089855	21	—	—
42608 1998 DD_{24}	15.2	X	285.70464	145.85608	94.46946	4.99457	0.1468648	0.29567279	2.2314910	21	—	—
42609 Daubechies	14.9	X	100.08813	103.79463	149.85583	4.77279	0.2977188	0.27169340	2.3609312	21	11 11.3	19.0
42610 1998 DD_{35}	15.6	X	168.91762	23.58001	127.68728	2.82776	0.1461227	0.27134899	2.3629285	21	8 27.7	19.1
42611 1998 EU_1	16.1	X	79.32448	133.70646	11.41856	2.52429	0.1454962	0.25897321	2.4376209	21	5 4.7	18.9
42612 1998 EL_3	15.4	X	176.04679	189.27557	142.30422	5.15835	0.0881518	0.29429521	2.2384493	21	1 1.8	18.3
42613 1998 EC_4	15.9	X	214.83714	331.86047	148.46694	3.98827	0.1610925	0.27373933	2.3491527	21	9 1.3	19.4
42614 Ubaldina	15.7	X	308.67546	268.89797	269.04331	1.24756	0.0793126	0.29313028	2.2443759	21	—	—
42615 1998 EV_{11}	15.3	X	38.35401	237.24757	50.82107	6.65529	0.1156044	0.27064120	2.3670464	21	9 27.1	17.9
42616 1998 EX_{20}	15.4	X	339.21992	71.60382	167.33042	2.64686	0.1313049	0.25872183	2.4391996	21	3 18.3	17.8
42617 1998 FJ_1	15.6	X	292.10264	267.90853	236.66458	6.06874	0.0505974	0.28576472	2.2827778	21	—	—
42618 1998 FM_8	15.0	X	127.85424	318.70055	27.78578	6.10080	0.2095169	0.28689143	2.2767971	21	—	—
42619 1998 FE_{12}	16.4	X	90.31829	101.41306	143.38285	9.72018	0.2212837	0.27105617	2.3646299	21	10 19.5	20.1
42620 1998 FS_{13}	14.7	X	319.46148	43.55550	60.29761	6.55611	0.1304442	0.28561652	2.2835674	21	—	—
42621 1998 FW_{20}	14.7	X	177.21485	155.91559	95.51622	2.51784	0.1653491	0.28236068	2.3010881	21	—	—
42622 1998 FF_{26}	15.4	X	148.77427	169.65027	28.89002	1.25932	0.1578860	0.27382487	2.3486634	21	10 8.2	19.0
42623 1998 FT_{27}	15.7	X	189.06304	342.96447	260.00127	1.97392	0.0212064	0.28409941	2.2916898	21	—	—
42624 1998 FJ_{28}	15.4	X	187.92728	29.75323	181.38928	4.93149	0.0872994	0.27994980	2.3142802	21	12 8.1	18.6
42625 1998 FZ_{29}	15.1	X	285.08910	46.77768	211.12770	4.89152	0.1632545	0.29492461	2.2352634	21	1 19.2	18.3
42626 1998 FU_{31}	16.0	X	101.79875	199.65449	330.06933	0.73863	0.1236916	0.26521669	2.3992130	21	7 7.8	19.0
42627 1998 FF_{33}	14.9	X	101.09146	80.16599	160.54431	3.95058	0.1922712	0.27136740	2.3628216	21	10 19.7	18.5
42628 1998 FH_{41}	15.3	X	68.32313	81.78087	188.96581	2.19372	0.1931815	0.27020156	2.3696133	21	10 23.4	18.3
42629 1998 FL_{43}	15.1	X	25.11633	26.40740	355.30569	5.26642	0.0697930	0.28090459	2.3090331	21	—	—
42630 1998 FE_{47}	15.3	X	162.29177	154.29766	348.98944	6.67455	0.0853940	0.26898670	2.3767427	21	8 10.7	18.7
42631 1998 FR_{48}	15.5	X	298.33349	96.10626	255.89964	2.15039	0.1776614	0.30840121	2.1696616	21	6 15.3	17.3
42632 1998 FQ_{53}	15.6	X	254.80977	134.15373	319.02152	2.41587	0.0574351	0.27386035	2.3484606	21	9 26.8	18.4
42633 1998 FW_{58}	14.8	X	250.82087	74.84609	14.05219	8.79797	0.0554239	0.27260155	2.3556848	21	9 18.5	17.6
42634 1998 FF_{60}	15.7	X	88.67276	37.50697	166.89581	2.81460	0.1499513	0.26585099	2.3953953	21	8 11.8	18.9
42635 1998 FS_{60}	15.7	X	99.22433	12.85735	180.40005	1.16121	0.1245207	0.26613506	2.3936905	21	8 6.2	18.8
42636 1998 FO_{61}	15.4	X	60.79136	29.59895	218.96314	2.74525	0.1269725	0.26680026	2.3897101	21	8 31.9	18.3
42637 1998 FZ_{61}	15.1	X	313.68649	193.88513	254.35968	3.29192	0.1325190	0.28085593	2.3092998	21	12 22.1	16.8
42638 1998 FL_{62}	15.0	X	5.97719	120.91310	218.92831	4.73409	0.0528819	0.27185908	2.3599718	21	10 7.5	17.6
42639 1998 FW_{63}	15.4	X	80.69717	98.12376	119.64997	3.32456	0.1350339	0.26619830	2.3933113	21	8 19.2	18.4
42640 1998 FX_{63}	15.7	X	53.21762	146.20947	69.38131	3.41208	0.1251756	0.26290589	2.4132511	21	7 2.8	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42641 1998 FD_{65}	15.6	X	188.90426	75.72442	198.31911	4.32591	0.1339517	0.28420083	2.2911446	21	—	—
42642 1998 FQ_{66}	14.8	X	32.53792	351.62214	20.43294	7.92286	0.1448582	0.27930108	2.3178623	21	—	—
42643 1998 FX_{66}	15.7	X	144.79912	29.58912	123.98916	2.06839	0.1283524	0.26743281	2.3859404	21	8 5.1	19.0
42644 1998 FE_{67}	14.6	X	311.27167	345.04339	33.42362	7.32981	0.1342538	0.27046575	2.3680700	21	8 31.9	17.0
42645 1998 FW_{67}	15.3	X	60.26167	66.80769	164.52759	3.80188	0.0685800	0.26530853	2.3986593	21	7 27.6	18.0
42646 1998 FF_{69}	15.6	X	143.45860	325.54852	185.29172	0.96713	0.1234866	0.26672511	2.3901589	21	7 30.2	19.1
42647 1998 FY_{69}	15.4	X	143.61458	6.20502	156.16457	4.89142	0.0724454	0.26765924	2.3845946	21	8 11.9	18.7
42648 1998 FR_{72}	15.3	X	159.00027	286.74187	23.30911	2.76295	0.2205561	0.28336305	2.2956582	21	—	—
42649 1998 FM_{76}	15.2	X	227.93164	101.53972	86.53732	4.58824	0.1247995	0.28083756	2.3094005	21	12 21.2	18.1
42650 1998 FZ_{76}	15.7	X	40.19449	157.21542	88.14103	3.85014	0.1415872	0.26375899	2.4080446	21	7 28.8	18.0
42651 1998 FF_{77}	15.5	X	211.49923	170.09223	124.05135	5.94587	0.1373281	0.28905608	2.2654161	21	—	—
42652 1998 FS_{78}	15.1	X	43.69335	262.31888	114.46287	4.64293	0.1535937	0.28018538	2.3129828	21	—	—
42653 1998 FE_{88}	15.1	X	328.49417	59.01571	19.60422	7.10388	0.0844720	0.28276979	2.2988680	21	—	—
42654 1998 FC_{107}	15.5	X	146.03066	247.60850	233.96823	5.61743	0.1730470	0.26532420	2.3985649	21	6 26.7	19.2
42655 1998 FU_{108}	14.6	X	9.68214	57.22712	318.05559	5.76661	0.1397263	0.27728747	2.3290700	21	12 17.3	17.1
42656 1998 FU_{113}	15.0	X	113.14347	303.65624	255.18790	4.94386	0.0451078	0.26805825	2.3822276	21	8 19.6	18.2
42657 1998 FC_{117}	14.8	X	135.02643	92.61224	233.91631	5.69241	0.1335787	0.28389696	2.2927791	21	—	—
42658 1998 FQ_{118}	15.7	X	201.55401	254.00890	230.54480	5.96388	0.0495715	0.26988233	2.3714816	21	8 28.9	19.0
42659 1998 FR_{121}	15.6	X	247.06027	213.74605	250.01481	2.23004	0.0434777	0.27343201	2.3509126	21	10 2.9	18.6
42660 1998 FR_{126}	15.3	X	186.03262	95.83361	60.46909	7.43889	0.0527414	0.27286066	2.3541932	21	9 29.2	18.5
42661 1998 FT_{126}	14.8	X	87.10325	152.40930	34.49870	12.42198	0.1277066	0.22217101	2.6998800	21	7 14.9	18.7
42662 1998 FQ_{133}	15.1	X	96.67310	10.36912	327.18711	4.14361	0.1728869	0.28284875	2.2984402	21	—	—
42663 1998 FD_{134}	15.8	X	175.19264	265.35730	193.45158	2.06314	0.1328516	0.26498969	2.4005830	21	6 24.5	19.5
42664 1998 FG_{143}	15.2	X	93.57003	34.92318	197.67803	7.58357	0.0406158	0.22665977	2.6641157	21	9 5.9	18.8
42665 1998 HF_{4}	15.4	X	301.79454	283.15824	75.85511	6.92491	0.1346940	0.26476282	2.4019542	21	7 11.0	18.0
42666 1998 HU_{6}	14.8	X	9.81440	244.76514	87.08382	6.46549	0.1922864	0.26552674	2.3973450	21	10 23.6	17.0
42667 1998 HK_{20}	15.6	X	169.08913	95.73777	197.50430	3.98889	0.1893507	0.28349564	2.2949424	21	—	—
42668 1998 HR_{20}	15.0	X	235.57435	64.62873	59.53180	5.71190	0.1355491	0.27578604	2.3375157	21	10 5.8	18.0
42669 1998 HH_{33}	15.4	X	165.39323	98.01142	0.54055	4.61938	0.1592999	0.26434307	2.4044962	21	6 14.7	19.3
42670 1998 HY_{35}	14.8	X	187.84117	214.67255	66.50685	2.90182	0.1315907	0.28449780	2.2895499	21	—	—
42671 1998 HQ_{68}	14.7	X	359.36484	137.97333	236.32122	6.25922	0.1228164	0.27344179	2.3508565	21	11 25.2	16.9
42672 1998 HL_{91}	14.6	X	78.60349	136.60155	177.13074	6.86736	0.1345496	0.27397509	2.3478049	21	12 22.4	18.0
42673 1998 HL_{94}	15.7	X	275.37487	296.01143	303.68610	0.82174	0.0849733	0.24717974	2.5145530	21	1 3.4	19.3
42674 1998 HS_{95}	14.9	X	75.51960	5.12171	158.34907	2.79602	0.1357356	0.25897473	2.4376113	21	5 25.2	17.8
42675 1998 HW_{119}	14.7	X	145.02529	20.34642	130.56711	7.30778	0.0657546	0.26496138	2.4007540	21	7 28.6	17.9
42676 1998 HS_{121}	15.0	X	352.65324	150.84248	98.73872	10.29181	0.1076728	0.21467799	2.7623436	21	5 8.7	18.3
42677 1998 HY_{129}	16.2	X	63.51027	69.75341	176.57164	1.29303	0.1497766	0.26679326	2.3897519	21	9 6.6	19.0
42678 1998 HR_{130}	16.0	X	6.75668	270.93381	339.97748	0.74123	0.1474133	0.26056331	2.4276936	21	5 27.8	17.9
42679 1998 HL_{138}	16.1	X	164.40482	117.74903	121.60762	6.43856	0.1366547	0.27770152	2.3267544	21	12 14.7	19.5
42680 1998 HL_{143}	15.2	X	133.12201	251.75610	125.35672	5.75937	0.0928388	0.28958634	2.2626498	21	1 10.1	17.8
42681 1998 HV_{143}	14.7	X	277.91678	344.33407	29.48694	7.52283	0.1212060	0.26328815	2.4109147	21	6 27.8	17.8
42682 1998 HF_{145}	14.7	X	53.82403	110.70995	96.44566	7.42718	0.0693630	0.26047309	2.4282541	21	6 12.7	17.5
42683 1998 HS_{148}	15.4	X	212.90920	283.08284	6.88940	0.80466	0.1483637	0.24298594	2.5434036	21	1 1.6	19.4
42684 1998 HQ_{150}	16.2	X	201.75859	359.75839	121.97699	3.22169	0.1496291	0.27107995	2.3644916	21	8 21.6	19.8
42685 1998 JY	14.0	X	94.69249	131.90720	214.37686	24.35757	0.2601708	0.27850443	2.3222803	21	—	—
42686 1998 JH_{1}	14.4	X	325.57169	19.65210	258.26177	8.04751	0.0507131	0.25711397	2.4493580	21	5 1.3	17.4
42687 1998 JS_{1}	15.0	X	27.49099	54.16389	193.40700	6.12492	0.1044017	0.26085929	2.4258569	21	7 1.7	17.6
42688 1998 JV_{4}	15.3	X	114.69993	326.80170	248.96167	4.88092	0.1809423	0.26802543	2.3824221	21	9 26.1	19.0
42689 1998 KX	15.1	X	318.69487	51.29842	114.73996	7.55187	0.1118857	0.24244676	2.5471731	21	—	—
42690 1998 KY_{5}	15.2	X	288.76791	3.85670	28.04929	6.84598	0.1603747	0.26699831	2.3885282	21	8 6.2	17.9
42691 1998 KT_{11}	15.6	X	176.73413	201.50471	140.74323	10.14264	0.0761889	0.24571042	2.5245676	21	1 24.5	19.3
42692 1998 KG_{35}	15.0	X	202.25918	263.47087	75.95281	5.64785	0.1976057	0.24592747	2.5230819	21	2 23.3	19.3
42693 1998 KQ_{38}	14.7	X	177.37383	155.55246	25.20137	2.54173	0.1409033	0.27109588	2.3643990	21	10 13.0	18.0
42694 1998 KQ_{44}	15.1	X	86.77340	14.64444	218.50966	5.52702	0.1057631	0.26485414	2.4014020	21	9 10.1	18.4
42695 1998 KM_{54}	15.1	X	216.97535	117.63863	114.93984	10.92063	0.1246904	0.23760707	2.5816447	21	—	—
42696 1998 KO_{62}	15.2	X	95.63244	308.28454	301.12658	4.56442	0.1155147	0.26858247	2.3791269	21	10 14.0	18.5
42697 Lucapaolini	15.0	X	241.20360	73.17092	223.83660	13.49148	0.1094773	0.24541852	2.5265690	21	2 1.0	19.2
42698 1998 MB_{1}	14.9	X	11.97477	147.67708	239.62667	2.87273	0.1231018	0.27353631	2.3503149	21	—	—
42699 1998 MO_{8}	15.0	X	208.71426	185.78431	137.83930	7.50026	0.2631609	0.24316298	2.5421689	21	2 8.3	19.4
42700 1998 MO_{10}	13.5	X	64.25802	213.02503	140.94944	15.40272	0.0814039	0.18791838	3.0187227	21	—	—
42701 1998 MD_{13}	13.2	X	289.50125	56.88781	165.83205	8.78165	0.2131608	0.24418577	2.5350653	21	—	—
42702 1998 ME_{19}	14.2	X	13.89235	24.73954	125.39241	10.65588	0.0410027	0.24459404	2.5322435	21	1 21.7	17.3
42703 1998 MM_{29}	14.2	X	194.63480	100.65231	92.19403	13.96310	0.1129434	0.22779253	2.6552764	21	11 15.4	18.3
42704 1998 MB_{32}	13.5	X	312.04843	89.77494	95.67422	15.75528	0.0448606	0.23947667	2.5681906	21	—	—
42705 1998 OW_{8}	15.1	X	80.71428	357.20889	294.14808	2.16579	0.2919879	0.22334812	2.6903855	21	12 3.6	19.5
42706 1998 QY	14.5	X	211.88130	161.08269	147.85120	14.06361	0.1654771	0.23965863	2.5668904	21	1 23.1	18.8
42707 1998 QM_{2}	14.2	X	187.44080	65.15189	211.38776	5.18473	0.0841988	0.27386619	2.3484272	21	—	—
42708 1998 QD_{11}	13.7	X	187.51473	125.69929	123.28601	18.87766	0.2008690	0.23210471	2.6222861	21	—	—
42709 1998 QM_{17}	14.5	X	53.63763	160.35583	129.73540	4.21877	0.1651775	0.21882155	2.7273612	21	10 21.5	18.2
42710 1998 QD_{20}	14.2	X	123.84952	225.16395	185.77920	11.02794	0.0934964	0.19553286	2.9398345	21	2 27.3	18.4
42711 1998 QY_{25}	14.2	X	29.04268	188.38200	160.19959	18.32667	0.1249484	0.17603595	3.1530810	21	11 20.4	18.7
42712 1998 QX_{28}	14.4	X	4.89933	231.48500	175.61127	17.05192	0.2151708	0.17865372	3.1222045	21	—	—
42713 1998 QS_{33}	14.0	X	53.10688	142.32727	246.84303	5.26070	0.0588028	0.18432738	3.0578029	21	—	—
42714 1998 QW_{38}	15.0	X	191.78208	4.43035	294.79530	7.02307	0.1876824	0.23507540	2.6001472	21	—	—
42715 1998 QE_{44}	16.2	X	72.84004	343.60274	16.71485	2.55533	0.2066241	0.31228689	2.1516265	21	—	—
42716 1998 QQ_{44}	14.4	X	51.29383	244.20296	149.43594	4.00225	0.1250171	0.18345602	3.0674776	21	—	—
42717 1998 QM_{47}	13.9	X	68.88844	186.41240	196.81124	11.12596	0.1391255	0.18399761	3.0614553	21	—	—
42718 1998 QU_{52}	13.9	X	93.59146	110.55025	271.11506	7.51627	0.1105501	0.18624623	3.0367641	21	—	—
42719 1998 QL_{66}	14.1	X	153.04614	34.19474	247.08074	12.12990	0.1558312	0.22958581	2.6414315	21	—	—
42720 1998 QH_{69}	14.4	X	206.02120	31.47657	298.66520	12.80193	0.2838964	0.23967776	2.5667539	21	2 11.5	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42721 1998 QM_{70}	14.8	X	174.52249	57.38937	260.14788	12.23694	0.1793541	0.23454078	2.6040969	21	1 1.8	19.0
42722 1998 QX_{70}	14.2	X	106.46743	133.03876	263.08339	9.54921	0.1230841	0.19060643	2.9902742	21	1 23.9	18.4
42723 1998 QL_{73}	13.6	X	350.66096	230.22095	236.73178	9.41696	0.0666610	0.18549803	3.0449244	21	—	—
42724 1998 QJ_{76}	13.3	X	96.86905	55.33564	239.04164	12.28729	0.1680366	0.22234877	2.6984408	21	12 11.1	17.6
42725 1998 QK_{80}	14.2	X	113.53403	93.19283	255.92659	13.54937	0.1336301	0.23097913	2.6307983	21	—	—
42726 1998 QW_{84}	14.6	X	153.55008	339.26373	290.24883	10.71790	0.0445161	0.22607260	2.6687267	21	—	—
42727 1998 QX_{85}	14.0	X	312.97898	215.32504	195.49632	14.98120	0.1742032	0.17179536	3.2047570	21	9 27.8	17.8
42728 1998 QX_{86}	13.5	X	26.92305	167.75795	243.79665	15.05680	0.1574850	0.18136022	3.0910642	21	—	—
42729 1998 QE_{90}	14.6	X	90.68450	10.42501	305.22437	13.54379	0.1971651	0.22349541	2.6892034	21	—	—
42730 1998 QE_{106}	14.8	X	142.84894	295.06512	63.68762	3.80882	0.2331767	0.23363847	2.6107972	21	1 28.9	18.7
42731 1998 QJ_{106}	14.2	X	227.46292	262.05208	20.97663	10.32154	0.0750845	0.19287377	2.9667932	21	1 18.5	18.8
42732 1998 RD_{1}	13.3	X	27.80327	5.32476	347.56612	8.67960	0.0774192	0.17436680	3.1731713	21	11 10.3	17.7
42733 1998 RH_{2}	14.6	X	127.57250	236.84848	98.85446	4.46433	0.2004786	0.22942954	2.6426308	21	—	—
42734 1998 RH_{19}	14.9	X	208.87244	238.78228	134.70363	6.53957	0.1651048	0.20104566	2.8858445	21	4 14.9	19.7
42735 1998 RZ_{19}	14.8	X	331.83656	99.73823	164.23099	15.22215	0.1247422	0.20551007	2.8438978	21	4 23.0	18.5
42736 1998 RJ_{25}	14.7	X	268.45792	314.79491	331.92022	1.22533	0.1518072	0.19945635	2.9011541	21	2 23.6	19.2
42737 1998 RJ_{45}	14.1	X	358.75121	120.73434	291.43815	1.74099	0.0772070	0.17886814	3.1197088	21	12 17.0	18.1
42738 1998 RK_{46}	14.2	X	75.42820	46.07928	295.71015	3.71300	0.1748459	0.18031172	3.1030355	21	—	—
42739 1998 RJ_{57}	14.5	X	81.17210	201.72093	158.31712	2.10298	0.0997015	0.18265671	3.0764200	21	—	—
42740 1998 RY_{62}	14.1	X	341.30121	17.82681	16.38847	9.22078	0.0752486	0.17443521	3.1723416	21	10 27.9	18.2
42741 1998 RW_{65}	14.7	X	247.07642	72.86807	279.00255	0.98332	0.0750314	0.20155932	2.8809394	21	4 29.0	18.8
42742 1998 RT_{66}	13.3	X	121.95145	140.04603	215.14599	7.30734	0.0729212	0.18628170	3.0363786	21	—	—
42743 1998 RP_{73}	14.9	X	107.24280	1.78574	248.62320	3.40837	0.0667856	0.21582183	2.7525749	21	10 18.6	18.9
42744 1998 RH_{74}	13.1	X	143.85041	47.01008	275.55554	3.80020	0.1452846	0.18551571	3.0447310	21	—	—
42745 1998 RK_{77}	14.6	X	240.35078	77.46768	31.80503	7.30645	0.0770638	0.21309931	2.7759695	21	9 23.4	18.4
42746 1998 SV_{8}	14.8	X	133.32237	59.53228	151.65474	0.94482	0.1146236	0.17072231	3.2181716	21	9 28.8	19.8
42747 Fuser	13.7	X	356.90730	197.28052	200.14588	0.55322	0.1373489	0.17659245	3.1464533	21	11 30.2	17.5
42748 Andrisani	14.8	X	277.98369	167.28500	166.82380	2.19684	0.2547653	0.20497237	2.8488691	21	4 20.5	19.1
42749 1998 SL_{25}	14.2	X	108.30676	313.46278	63.55123	8.49582	0.1874606	0.18595259	3.0399602	21	1 16.6	18.5
42750 1998 SO_{53}	14.4	X	45.25721	165.98002	193.75824	8.95502	0.1003801	0.17855270	3.1233820	21	12 18.1	18.8
42751 1998 SP_{55}	15.0	X	266.76368	171.21320	153.33444	3.29421	0.1408111	0.20196207	2.8771081	21	4 10.9	19.2
42752 1998 SV_{55}	13.9	X	302.27410	256.25992	173.54110	1.48227	0.1129187	0.17268508	3.1937396	21	10 13.8	17.8
42753 1998 SS_{59}	14.6	X	67.70301	298.16526	55.27255	7.39547	0.1323594	0.17933460	3.1142967	21	—	—
42754 1998 SN_{60}	14.0	X	90.98578	236.13394	122.02759	2.86157	0.0884603	0.18308351	3.0716370	21	—	—
42755 1998 ST_{61}	14.1	X	50.11226	177.62190	211.54866	12.78621	0.1004022	0.18102976	3.0948247	21	—	—
42756 1998 SA_{63}	14.3	X	15.83607	166.19027	180.03295	7.82579	0.0589429	0.17182620	3.2043734	21	10 18.8	18.5
42757 1998 SY_{67}	14.1	X	244.46831	176.08707	281.83454	8.48870	0.0540011	0.17124567	3.2116113	21	9 6.6	18.8
42758 1998 SD_{72}	14.7	X	154.08822	300.15584	65.47977	2.51986	0.2585389	0.19083026	2.9879355	21	2 23.0	19.8
42759 1998 SR_{73}	13.9	X	82.93524	130.38787	170.92451	8.98675	0.2400422	0.17672026	3.1449360	21	12 7.6	19.0
42760 1998 SY_{78}	14.9	X	135.90133	38.71562	320.74421	0.84773	0.1091754	0.18939186	3.0030451	21	1 14.9	19.3
42761 1998 SK_{104}	14.4	X	237.70702	171.09921	34.51663	9.63567	0.0762488	0.22629027	2.6670150	21	—	—
42762 1998 SB_{116}	14.2	X	51.38042	173.37454	217.08947	5.39909	0.2189959	0.18020251	3.1042891	21	—	—
42763 1998 SV_{119}	16.4	X	208.03310	17.07543	280.28312	3.72288	0.2735079	0.27937597	2.3174481	21	1 4.2	20.5
42764 1998 SJ_{122}	13.7	X	350.38032	185.60151	216.15758	5.65596	0.1216873	0.17404363	3.1770981	21	11 23.8	17.4
42765 1998 SR_{137}	14.2	X	114.40647	272.26272	70.30965	6.20337	0.1188600	0.18323842	3.0699056	21	—	—
42766 1998 SN_{143}	14.1	X	117.48806	129.34312	192.20476	9.12227	0.0705158	0.18083985	3.0969911	21	—	—
42767 1998 SJ_{150}	13.6	X	300.86977	53.35872	219.82604	11.44948	0.0400739	0.15541954	3.4260915	21	4 3.5	18.5
42768 1998 SA_{168}	14.3	X	9.12335	63.72530	250.41461	7.83675	0.2852009	0.21409525	2.7673538	21	9 19.9	16.8
42769 1998 TA_{1}	14.5	X	148.28079	214.22647	61.85179	1.22542	0.1706113	0.17949934	3.1123909	21	12 27.8	19.7
42770 1998 TH_{5}	14.4	X	49.68980	243.84230	134.39290	2.85852	0.1767717	0.17770115	3.1333522	21	—	—
42771 1998 TB_{32}	13.9	X	54.61155	152.66626	226.33334	13.53009	0.1365157	0.17876178	3.1209461	21	—	—
42772 1998 TJ_{34}	13.9	X	60.46253	217.27427	172.54812	5.93720	0.1520789	0.18040536	3.1019617	21	—	—
42773 1998 UN_{15}	14.1	X	41.48584	267.01592	88.45145	1.90857	0.1865953	0.17399317	3.1777124	21	12 19.4	18.4
42774 1998 UZ_{20}	15.6	X	168.26019	316.01711	42.91310	6.26352	0.1329257	0.27675336	2.3320657	21	2 8.4	19.0
42775 Bianchini	13.1	X	41.88270	133.12394	249.06747	22.82946	0.2415892	0.17644368	3.1482217	21	—	—
42776 Casablanca	13.2	X	209.25236	134.31663	69.22579	10.30812	0.0427838	0.17543734	3.1602494	21	12 8.2	17.8
42777 1998 UY_{30}	13.9	X	49.89496	170.04479	153.59997	7.71672	0.1243832	0.17136314	3.2101434	21	11 14.8	18.4
42778 1998 UC_{33}	14.6	X	346.21220	135.89012	242.93854	8.33071	0.1689962	0.21520450	2.7578363	21	10 26.1	17.4
42779 1998 VD_{13}	13.9	X	258.41946	308.74477	44.69945	3.24645	0.0712180	0.20065071	2.8896301	21	5 15.1	18.1
42780 1998 VW_{17}	13.5	X	91.86712	93.99160	230.50082	14.51861	0.1083425	0.17710274	3.1404064	21	12 27.6	18.4
42781 1998 VL_{28}	14.6	X	348.42010	267.57199	202.06700	9.23977	0.1784670	0.26522134	2.3991850	21	—	—
42782 1998 VC_{48}	13.6	X	95.25901	48.47808	225.09936	7.85266	0.0756445	0.17001724	3.2270628	21	10 29.3	18.3
42783 1998 VV_{53}	12.5	X	12.07192	124.21082	250.93404	21.03266	0.0659734	0.17264784	3.1941988	21	11 17.3	16.8
42784 1998 WD_{1}	13.2	X	350.24274	264.04683	129.42000	20.73967	0.1448869	0.17037219	3.2225790	21	11 20.2	17.4
42785 1998 WJ_{1}	14.7	X	195.94980	156.74891	210.81580	25.49111	0.2328234	0.27955224	2.3164738	21	3 15.0	19.0
42786 1998 WU_{4}	14.0	X	291.59447	336.94774	193.67787	22.24086	0.0999511	0.26214609	2.4179118	21	—	—
42787 1998 WC_{16}	13.2	X	240.48506	235.07405	74.55218	11.43002	0.0915310	0.19133727	2.9826548	21	3 6.7	17.9
42788 1998 XF_{13}	14.0	X	342.51289	246.64135	65.66947	4.72096	0.1692301	0.20572966	2.8418737	21	7 12.6	17.0
42789 1998 XP_{74}	14.7	X	15.39949	69.18516	312.96702	5.45065	0.1332350	0.25726684	2.4483876	21	12 29.8	17.6
42790 1998 XS_{93}	13.3	X	278.02228	127.08781	229.58623	14.09110	0.1335018	0.24204463	2.5499936	21	6 2.4	16.8
42791 1999 AD_{6}	14.8	X	213.26610	287.19749	132.70907	8.17010	0.2174862	0.23916044	2.5704539	21	6 9.8	19.2
42792 1999 AM_{13}	16.0	X	7.37975	341.37633	302.73844	6.54245	0.1133164	0.28273564	2.2990532	21	7 22.7	18.0
42793 1999 BN_{5}	14.5	X	97.07645	210.79637	140.75106	5.95844	0.3363040	0.22584928	2.6704856	21	—	—
42794 1999 BL_{18}	13.9	X	209.51351	208.42206	359.73056	10.18306	0.1278984	0.25555243	2.4593257	21	12 18.9	17.6
42795 1999 CO_{12}	15.4	X	249.89150	286.94400	173.28117	8.18786	0.1135237	0.28983986	2.2613302	21	9 24.2	17.8
42796 1999 CP_{53}	15.4	X	260.37502	359.29894	82.50818	2.97342	0.1691325	0.28908584	2.2652606	21	9 4.3	18.0
42797 1999 CL_{76}	13.2	X	213.37026	61.91449	325.36564	14.26308	0.1333759	0.23287706	2.6164850	21	4 25.2	17.7
42798 1999 DH_{2}	14.8	X	179.37762	332.92936	107.00711	6.23637	0.1443324	0.27810287	2.3245152	21	6 4.3	18.4
42799 1999 DV_{5}	13.7	X	274.43071	10.82355	256.59380	15.75017	0.1951060	0.22083601	2.7107499	21	1 25.4	18.3
42800 1999 FB_{28}	13.9	X	97.90135	94.20831	5.48667	21.81748	0.0529170	0.22249475	2.6972603	21	3 22.1	17.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42801 1999 FK_{41}	14.6	X	177.46261	100.73510	338.94614	15.07293	0.2927079	0.23593970	2.5937933	21	6 2.6	19.6
42802 1999 GE_{15}	14.7	X	318.90980	108.76809	102.93029	9.10042	0.1636080	0.26128552	2.4232180	21	1 5.3	18.0
42803 1999 GG_{21}	13.2	X	38.63404	329.61065	116.43967	10.29021	0.1390893	0.21389467	2.7690836	21	—	—
42804 1999 GQ_{33}	15.0	X	171.13345	201.72391	105.10872	6.51084	0.1245353	0.29777661	2.2209681	21	—	—
42805 1999 JU_{1}	15.4	X	286.60589	215.08444	97.25833	6.24814	0.2513656	0.31126930	2.1563133	21	3 25.9	18.6
42806 1999 JR_{3}	14.8	X	229.30619	229.83764	217.26374	21.70309	0.0405039	0.36825246	1.9276978	21	8 14.1	17.4
42807 1999 JM_{12}	15.3	X	310.14299	158.78606	184.17025	13.04464	0.2440678	0.27226414	2.3576306	21	6 11.3	18.1
42808 1999 JZ_{13}	14.7	X	324.12725	160.19269	214.77987	24.54714	0.1901273	0.27882067	2.3205240	21	9 5.4	17.2
42809 1999 JJ_{20}	12.8	X	188.14436	220.79582	33.78585	11.81844	0.0439448	0.16068524	3.3508275	21	—	—
42810 1999 JP_{72}	14.6	X	27.40957	182.45142	65.62417	10.33415	0.1408130	0.27256857	2.3558748	21	7 7.7	16.8
42811 1999 JN_{81}	14.4	X	172.68980	128.86084	209.39636	24.08726	0.1425484	0.39362188	1.8439532	21	—	—
42812 1999 JC_{94}	14.1	X	329.55668	11.09816	129.83477	9.15060	0.1611111	0.20994645	2.8036924	21	—	—
42813 1999 JU_{121}	14.4	X	188.34936	302.48165	252.81672	9.53921	0.0266771	0.28482058	2.2878198	21	11 24.0	17.1
42814 1999 LR_{13}	15.4	X	278.38746	130.51865	185.65859	5.78256	0.2044199	0.26240023	2.4163504	21	3 29.5	18.8
42815 1999 LH_{32}	15.6	X	269.24932	117.94685	287.90149	1.46774	0.1980784	0.26876069	2.3780750	21	7 19.2	18.6
42816 1999 NZ_{1}	14.1	X	207.89528	210.58789	186.13419	15.83465	0.2716836	0.21565995	2.7539521	21	5 8.5	19.2
42817 1999 NB_{4}	15.5	X	140.66463	69.44161	260.21737	4.99573	0.2096185	0.28868166	2.2673745	21	—	—
42818 1999 NU_{4}	15.4	X	102.16680	223.48678	161.47089	2.87794	0.1615814	0.29002264	2.2603799	21	—	—
42819 1999 NF_{5}	14.4	X	303.69117	141.85971	269.69659	1.65177	0.2061172	0.27216251	2.3582174	21	9 22.5	16.5
42820 1999 NA_{7}	14.4	X	258.21548	343.02822	152.90344	2.94315	0.1249205	0.28057697	2.3108302	21	11 23.3	16.8
42821 1999 NV_{11}	15.5	X	88.79374	53.07695	302.38422	4.49637	0.2640593	0.28340982	2.2954057	21	—	—
42822 1999 NT_{13}	16.1	X	293.56956	45.34230	278.96463	3.91040	0.2100171	0.30853557	2.1690316	21	4 19.8	18.8
42823 1999 NO_{15}	16.2	X	263.59310	200.44226	122.59539	1.96770	0.1654549	0.30486112	2.1864255	21	3 23.3	19.3
42824 1999 NF_{16}	15.0	X	101.36539	170.64931	126.60329	6.55107	0.1240753	0.28234103	2.3011948	21	12 25.8	18.3
42825 1999 NK_{26}	15.6	X	202.20316	235.35266	109.25164	5.39277	0.0371548	0.29992257	2.2103614	21	2 16.4	18.2
42826 1999 NX_{26}	15.7	X	286.48783	172.82187	123.74824	6.94989	0.1060243	0.30496625	2.1859230	21	3 23.2	18.4
42827 1999 NC_{36}	15.6	X	219.94133	197.22743	129.45137	4.34357	0.1035310	0.29908967	2.2144631	21	2 14.0	18.8
42828 1999 NH_{39}	15.6	X	242.99842	223.97753	44.12149	1.22465	0.1781411	0.29621733	2.2287554	21	—	—
42829 1999 NN_{39}	14.5	X	234.83990	89.00152	338.84096	4.90379	0.1401321	0.26669045	2.3903660	21	7 16.8	17.8
42830 1999 NE_{40}	15.6	X	129.90395	256.82546	93.86442	3.97577	0.1648817	0.28938129	2.2637185	21	—	—
42831 1999 NF_{43}	14.6	X	138.44674	244.22772	137.43509	10.05810	0.2786216	0.25199241	2.4824342	21	2 23.8	18.5
42832 1999 NL_{44}	15.0	X	24.18889	207.98657	118.04945	14.08280	0.1623385	0.27685842	2.3314757	21	11 10.3	17.8
42833 1999 NH_{48}	14.4	X	0.70238	122.91742	253.20056	10.59470	0.2040764	0.23155678	2.6264212	21	11 29.9	17.0
42834 1999 NU_{48}	15.6	X	171.51923	183.22381	153.25558	6.15230	0.1926817	0.29353943	2.2422898	21	1 13.8	19.0
42835 1999 NS_{56}	13.8	X	44.59624	118.15294	242.82447	13.76431	0.1306111	0.23327800	2.6134861	21	—	—
42836 1999 OO_{3}	15.0	X	152.05264	129.04166	232.60362	11.95415	0.2176826	0.24501552	2.5293386	21	2 1.3	19.2
42837 1999 PR_{1}	14.7	X	243.65087	353.63782	10.84916	2.16963	0.0749536	0.25893167	2.4378816	21	5 7.1	17.9
42838 1999 PP_{3}	14.5	X	47.12118	229.45989	203.88343	5.02628	0.1995987	0.24199817	2.5503199	21	—	—
42839 1999 PP_{6}	16.4	X	252.80060	150.35439	125.04750	4.58297	0.1849420	0.29735335	2.2230752	21	1 9.9	19.8
42840 1999 RU	15.7	X	43.91367	210.21317	153.51846	4.84443	0.1861924	0.27834528	2.3231654	21	—	—
42841 1999 RO_{3}	15.6	X	310.64888	56.00880	220.04945	4.27754	0.1841438	0.30519296	2.1848404	21	3 9.1	18.2
42842 1999 RK_{9}	15.4	X	231.33367	33.15682	352.14590	2.66670	0.1636118	0.30356559	2.1926418	21	5 10.9	18.6
42843 1999 RV_{11}	14.5	X	1.51778	72.89437	334.64671	22.50706	0.2618516	0.27659439	2.3329592	21	—	—
42844 1999 RC_{12}	15.5	X	201.45548	95.42355	174.09447	7.54065	0.1237003	0.28884010	2.2665452	21	—	—
42845 1999 RV_{16}	15.4	X	286.97959	155.21783	219.99768	1.84751	0.1851237	0.26434407	2.4044901	21	7 1.9	18.3
42846 1999 RJ_{26}	15.5	X	91.34497	169.97666	134.70152	4.52744	0.1740741	0.27764603	2.3270644	21	12 27.5	19.1
42847 1999 RC_{43}	14.0	X	178.19896	262.74738	6.19729	22.65295	0.2589829	0.28808403	2.2705092	21	—	—
42848 1999 RT_{43}	14.4	X	323.28194	305.71813	133.33554	2.49210	0.1583642	0.18039852	3.1020401	21	11 27.2	17.8
42849 Podjavorinska	14.8	X	182.08024	252.27210	191.90402	5.49470	0.2223556	0.21214108	2.7843225	21	6 13.9	19.7
42850 1999 RS_{50}	15.1	X	322.12640	302.54947	89.25737	3.21828	0.2091405	0.27153911	2.3618254	21	10 7.5	16.6
42851 1999 RA_{51}	14.3	X	156.71540	109.37611	336.45955	5.91629	0.0944182	0.25918725	2.4362787	21	5 14.4	17.9
42852 1999 RX_{52}	13.6	X	356.52430	27.14915	334.69742	14.43886	0.2118993	0.22789689	2.6544657	21	10 23.1	16.4
42853 1999 RP_{69}	15.5	X	84.68837	83.70083	135.53892	3.19436	0.1173958	0.26727607	2.3868731	21	8 23.6	18.6
42854 1999 RV_{70}	15.1	X	52.14541	182.55993	257.96782	1.27563	0.0100453	0.19890949	2.9064691	21	—	—
42855 1999 RF_{72}	15.3	X	327.84495	238.81830	134.58351	5.78063	0.1797100	0.26930534	2.3748676	21	9 22.4	17.1
42856 1999 RO_{73}	14.6	X	53.96648	250.43503	188.22777	12.34902	0.1517824	0.24179029	2.5517815	21	—	—
42857 1999 RS_{84}	15.8	X	141.78030	90.48221	199.09032	5.25787	0.1837696	0.28297680	2.2977468	21	—	—
42858 1999 RL_{88}	16.0	X	58.77635	101.19549	191.04581	5.86005	0.1419214	0.27225233	2.3576988	21	11 3.3	18.9
42859 1999 RB_{89}	13.3	X	91.93065	261.78376	182.51688	13.59006	0.1426457	0.20116710	2.8846829	21	3 7.9	17.0
42860 1999 RC_{90}	14.6	X	285.40151	354.30084	94.13671	3.33055	0.1763301	0.22554565	2.6728818	21	10 13.1	17.6
42861 1999 RQ_{90}	14.9	X	126.16092	159.63765	138.67714	5.99483	0.1711273	0.28159713	2.3052458	21	—	—
42862 1999 RH_{97}	14.9	X	305.25413	321.02051	195.40264	3.88384	0.0965475	0.23845942	2.5754891	21	—	—
42863 1999 RD_{99}	15.1	X	52.55287	237.07337	169.37240	11.66050	0.1679465	0.23579205	2.5948760	21	—	—
42864 1999 RY_{101}	15.2	X	356.30379	81.70856	228.45395	5.86855	0.1073258	0.26783217	2.3835680	21	8 7.5	17.6
42865 1999 RR_{103}	15.4	X	315.30364	58.88409	261.56954	5.54669	0.1189660	0.26287540	2.4134377	21	6 7.7	17.9
42866 1999 RJ_{104}	14.8	X	25.86759	35.51363	300.19838	6.24256	0.1445689	0.27287825	2.3540920	21	11 14.6	17.5
42867 1999 RO_{113}	13.7	X	177.99639	226.06476	209.32738	14.12691	0.2334983	0.21453162	2.7635999	21	5 31.4	18.6
42868 1999 RT_{115}	15.2	X	353.45923	283.90541	332.57644	10.80369	0.1679210	0.26306313	2.4122893	21	4 29.4	17.6
42869 1999 RD_{117}	14.7	X	21.20282	285.29758	265.06947	3.39696	0.0954716	0.30243056	2.1981244	21	3 13.7	16.7
42870 1999 RM_{120}	14.7	X	315.95085	23.89788	302.94199	4.22344	0.0523359	0.21983074	2.7190077	21	6 28.9	18.1
42871 1999 RA_{123}	15.8	X	66.72459	21.28386	286.02653	5.13976	0.1152573	0.27545857	2.3393679	21	11 28.2	18.9
42872 1999 RB_{124}	14.9	X	252.35004	50.31276	220.33227	7.94309	0.1961784	0.29507451	2.2345063	21	1 2.8	18.6
42873 1999 RV_{127}	15.6	X	258.70317	214.16094	177.40168	6.13596	0.1258683	0.26420037	2.4053619	21	6 26.0	18.9
42874 1999 RM_{128}	14.5	X	226.44014	285.22379	184.42822	6.40761	0.0670306	0.27032251	2.3689064	21	9 9.5	17.6
42875 1999 RO_{128}	14.8	X	216.65887	122.59398	286.79507	5.65172	0.0613656	0.26170600	2.4206217	21	6 5.7	18.0
42876 1999 RS_{132}	15.4	X	158.81294	351.68316	289.45219	5.95115	0.1105768	0.28496803	2.2870305	21	—	—
42877 1999 RW_{133}	15.3	X	86.94305	92.80607	223.04868	5.42887	0.1394514	0.27969275	2.3156979	21	—	—
42878 1999 RT_{135}	15.3	X	198.53062	174.16266	107.10091	2.53811	0.2094246	0.29096013	2.2555219	21	—	—
42879 1999 RD_{136}	16.5	X	58.15557	286.38912	71.08681	1.53290	0.2164544	0.27977852	2.3152247	21	—	—
42880 1999 RX_{138}	15.5	X	130.29217	120.13344	215.68775	5.05584	0.1969050	0.28720728	2.2751276	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42881 1999 RD_{145}	15.4	X	251.41913	51.22686	223.50422	5.24193	0.2317981	0.29688141	2.2254305	21	1 6.1	19.1
42882 1999 RZ_{145}	15.5	X	121.92348	91.93753	190.35229	5.60159	0.1068717	0.28042930	2.3116414	21	12 26.5	18.9
42883 1999 RJ_{146}	15.4	X	57.08083	260.41027	278.90432	3.79254	0.0398370	0.30328807	2.1939791	21	4 27.8	17.6
42884 1999 RF_{148}	15.7	X	204.07254	93.24944	219.72095	2.66954	0.1714772	0.29398572	2.2400200	21	1 13.5	19.2
42885 1999 RZ_{148}	15.2	X	233.70586	242.41381	161.36387	6.07319	0.1091958	0.26199577	2.4188366	21	6 15.2	18.7
42886 1999 RL_{150}	15.6	X	133.28669	321.88507	342.58170	4.01445	0.1827034	0.28443867	2.2898671	21	—	—
42887 1999 RV_{155}	15.4	X	351.38295	55.92315	282.37693	2.86299	0.2418229	0.31451953	2.1414321	21	10 2.8	16.3
42888 1999 RH_{163}	14.2	X	118.86486	51.06371	326.89109	8.79986	0.0341275	0.24438272	2.5337031	21	—	—
42889 1999 RW_{164}	15.0	X	22.93726	323.65571	318.09177	6.16872	0.1074717	0.26676969	2.3898927	21	8 16.5	17.3
42890 1999 RG_{167}	14.2	X	350.73294	50.21169	67.78467	5.83242	0.1345136	0.23980786	2.5658254	21	—	—
42891 1999 RH_{169}	15.3	X	155.77400	107.81991	190.70567	5.20419	0.1363291	0.28562466	2.2835240	21	—	—
42892 1999 RF_{180}	13.9	X	296.05505	85.37890	25.72998	13.31859	0.1132155	0.23194289	2.6235057	21	12 6.2	17.1
42893 1999 RQ_{180}	15.5	X	69.90250	139.36343	104.00638	4.61537	0.1955178	0.26916053	2.3757193	21	9 20.9	18.6
42894 1999 RM_{181}	15.6	X	280.18176	124.23326	136.26910	1.71018	0.1609293	0.29698457	2.2249152	21	1 18.5	18.7
42895 1999 RK_{182}	15.5	X	193.29007	130.46008	169.75579	3.98720	0.1820035	0.29059114	2.2574309	21	—	—
42896 1999 RX_{182}	14.9	X	57.50515	234.11580	187.27821	2.82815	0.1572391	0.23964849	2.5669628	21	—	—
42897 1999 RZ_{187}	15.9	X	118.58768	38.51173	350.22138	2.38762	0.0663267	0.28999127	2.2605430	21	1 1.7	18.4
42898 1999 RC_{190}	15.6	X	110.66986	132.34403	111.17088	2.96331	0.1875509	0.27405108	2.3473708	21	11 1.1	19.3
42899 1999 RV_{193}	14.1	X	341.00327	188.97402	221.13415	5.30151	0.1659583	0.22882788	2.6472610	21	12 5.2	16.6
42900 1999 RB_{195}	15.5	X	63.60709	114.54138	236.72038	5.65864	0.2169595	0.27938427	2.3174022	21	—	—
42901 1999 RN_{196}	15.4	X	349.80229	44.76552	246.79521	4.15336	0.1922568	0.30970417	2.1635720	21	6 21.5	16.5
42902 1999 RM_{197}	12.8	X	150.21627	100.23506	262.49137	7.99465	0.1424219	0.15522354	3.4289750	21	2 8.1	18.2
42903 1999 RL_{200}	14.7	X	51.31513	143.87356	246.36592	12.95065	0.1218758	0.23582938	2.5946021	21	—	—
42904 1999 RV_{202}	14.8	X	173.08039	279.75195	294.93566	9.85924	0.0621147	0.23023448	2.6364678	21	11 16.8	18.8
42905 1999 RC_{203}	14.1	X	296.70893	276.26257	235.51421	13.94262	0.1327958	0.23726979	2.5840907	21	—	—
42906 1999 RK_{212}	14.7	X	236.08458	336.61262	224.75393	13.89627	0.0308531	0.23521874	2.5990907	21	—	—
42907 1999 RN_{212}	14.8	X	63.14721	105.91207	238.51832	10.11196	0.0374242	0.23126154	2.6286561	21	12 22.7	18.4
42908 1999 RL_{214}	15.7	X	101.39629	168.92966	158.73535	7.12043	0.2008119	0.28052057	2.3111399	21	—	—
42909 1999 RH_{218}	15.8	X	165.19982	129.38216	146.16109	1.00915	0.0895476	0.28542953	2.2845646	21	—	—
42910 1999 RB_{221}	15.1	X	316.81170	216.44331	141.83374	10.02576	0.2316318	0.26573818	2.3960732	21	7 20.5	17.2
42911 1999 RJ_{221}	15.3	X	335.29792	176.67542	103.86705	4.78717	0.1432261	0.30564943	2.1826645	21	5 7.1	17.1
42912 1999 RQ_{221}	15.6	X	201.33247	0.81921	292.73856	7.15070	0.1339125	0.28823521	2.2697152	21	—	—
42913 1999 RW_{223}	14.7	X	292.08927	226.76901	230.30092	11.63905	0.1029652	0.22908572	2.6452743	21	11 13.9	17.6
42914 1999 RA_{232}	15.1	X	265.45171	251.91696	83.11308	6.38828	0.1342035	0.30403146	2.1904014	21	4 16.2	18.0
42915 1999 RD_{232}	15.3	X	112.50668	301.23120	37.92792	6.89878	0.1313929	0.28509491	2.2863519	21	—	—
42916 1999 RH_{238}	15.5	X	0.08080	194.45676	101.76138	6.90441	0.1226718	0.26394927	2.4068872	21	7 27.6	17.6
42917 1999 SU_{1}	13.2	X	307.23733	29.53460	352.54794	12.54468	0.1382556	0.21923592	2.7239235	21	8 23.9	16.5
42918 1999 SK_{4}	14.9	X	353.54459	154.67515	187.85682	6.69283	0.1157389	0.26824601	2.3811159	21	9 25.1	17.0
42919 1999 SS_{4}	15.9	X	53.84617	287.75452	43.87103	0.68305	0.2239374	0.27505304	2.3416667	21	12 29.0	19.2
42920 1999 SA_{8}	14.3	X	294.54580	108.42461	75.66511	6.50855	0.0722694	0.28871084	2.2672217	21	—	—
42921 1999 SH_{8}	14.4	X	207.27802	167.40547	91.08595	8.60144	0.0877184	0.28771671	2.2724412	21	—	—
42922 1999 SP_{8}	13.2	X	161.26156	345.81096	81.92913	10.30786	0.1437978	0.20982807	2.8047468	21	5 6.9	17.7
42923 1999 SR_{18}	13.9	X	254.88608	168.62295	117.62309	6.81144	0.1850851	0.29655201	2.2270782	21	1 25.8	17.5
42924 Betlem	16.2	X	30.80393	139.93686	196.71932	2.87410	0.2207331	0.27266218	2.3553355	21	12 7.8	19.0
42925 1999 TC_{6}	15.6	X	1.41134	161.33429	133.40821	7.28031	0.1178333	0.26344122	2.4099807	21	7 26.7	17.7
42926 1999 TJ_{7}	16.0	X	33.47773	99.22121	204.15691	2.65826	0.1797433	0.26857505	2.3791707	21	10 18.6	18.5
42927 1999 TP_{7}	15.1	X	14.30898	46.61521	264.11177	12.06071	0.2426159	0.26770253	2.3843375	21	9 27.5	17.4
42928 1999 TX_{7}	15.4	X	146.54114	141.58184	173.73934	22.72836	0.2133351	0.28416066	2.2913605	21	—	—
42929 Francini	15.6	X	336.03717	24.72637	329.97464	1.88510	0.2129219	0.26645666	2.3917640	21	9 5.8	17.0
42930 1999 TM_{11}	14.2	X	198.09197	136.44950	109.05903	24.47557	0.2174955	0.28398060	2.2923289	21	—	—
42931 1999 TG_{17}	14.1	X	95.35610	300.44904	68.26154	9.28884	0.1815107	0.23442729	2.6049373	21	—	—
42932 1999 TF_{19}	15.1	X	354.27229	294.20849	56.50338	13.32073	0.1727970	0.22355988	2.6886863	21	10 12.0	17.9
42933 1999 TR_{19}	14.2	X	330.76078	296.77366	101.06466	27.13469	0.1884263	0.22557888	2.6726193	21	11 10.1	17.5
42934 1999 TL_{25}	16.2	X	313.08208	305.27919	8.24041	3.30248	0.1861437	0.25972697	2.4329024	21	5 12.2	18.9
42935 1999 TS_{26}	16.0	X	347.78726	51.99493	257.99504	1.39589	0.2085698	0.26360279	2.4089958	21	7 19.5	17.5
42936 1999 TL_{27}	14.5	X	93.54882	106.10758	322.55044	1.12152	0.0760527	0.19678570	2.9273436	21	2 10.9	18.4
42937 1999 TU_{28}	15.1	X	171.83108	138.19246	354.51799	1.66863	0.0734569	0.21750172	2.7383834	21	8 4.1	19.0
42938 1999 TY_{30}	14.3	X	291.55295	115.41852	312.49250	1.98839	0.0375962	0.22421563	2.6834415	21	10 10.8	17.8
42939 1999 TJ_{31}	14.5	X	182.81087	213.12007	339.41988	1.24030	0.0238922	0.22671422	2.6636891	21	11 3.7	18.0
42940 1999 TP_{38}	14.2	X	293.64952	301.30272	183.29639	9.07120	0.2345439	0.18476024	3.0530250	21	11 27.0	17.8
42941 1999 TX_{74}	15.0	X	168.15805	4.16507	141.07552	2.83518	0.1145217	0.26262431	2.4149757	21	8 18.1	18.5
42942 1999 TK_{77}	15.9	X	23.24071	285.21922	17.88923	2.50815	0.2070517	0.26649063	2.3915608	21	10 5.1	18.0
42943 1999 TH_{92}	16.1	X	177.04323	185.52562	104.98522	3.80083	0.2287149	0.28722394	2.2750396	21	—	—
42944 1999 TQ_{93}	15.1	X	330.77872	238.83635	125.61768	3.22280	0.2278272	0.26759389	2.3849828	21	9 9.5	16.5
42945 1999 TW_{94}	14.6	X	238.51957	145.62929	75.34272	7.89784	0.0349202	0.23790439	2.5794933	21	—	—
42946 1999 TU_{95}	13.8	X	282.79660	61.35961	133.09773	4.69086	0.0717154	0.23947678	2.5681898	21	—	—
42947 1999 TB_{98}	15.0	X	343.02251	236.59060	78.79757	7.10857	0.1214553	0.26360970	2.4089537	21	7 23.7	17.3
42948 1999 TR_{98}	15.1	X	164.65887	184.07843	104.80920	6.36023	0.0734631	0.28257157	2.2999430	21	—	—
42949 1999 TV_{100}	15.2	X	288.04631	143.01298	134.46734	9.82994	0.1860250	0.25367910	2.4714183	21	2 22.6	18.8
42950 1999 TF_{101}	14.9	X	7.35341	191.77304	112.19010	7.53180	0.1408327	0.26484150	2.4014784	21	8 27.6	17.1
42951 1999 TU_{101}	15.4	X	194.90224	207.45774	93.68802	7.89691	0.1517388	0.28821178	2.2698382	21	—	—
42952 1999 TV_{102}	15.0	X	124.91209	231.78823	139.30983	16.34410	0.2015665	0.24034075	2.5620313	21	1 18.4	18.5
42953 1999 TK_{109}	14.9	X	270.39270	218.49721	294.31232	5.74204	0.0712276	0.27942050	2.3172019	21	—	—
42954 1999 TK_{118}	15.3	X	42.95596	96.74712	221.13648	4.84439	0.1273523	0.27182917	2.3601449	21	11 13.9	18.0
42955 1999 TK_{121}	16.1	X	37.92371	182.89913	145.45094	2.52492	0.2287285	0.27307780	2.3529450	21	12 7.4	19.0
42956 1999 TH_{122}	16.0	X	170.74167	130.88965	174.51688	5.04941	0.2472364	0.28756299	2.2732510	21	—	—
42957 1999 TK_{122}	15.0	X	100.63804	168.21796	181.64222	12.57806	0.1084843	0.23656244	2.5892393	21	—	—
42958 1999 TB_{127}	16.6	X	132.18897	161.61955	153.29613	3.98875	0.2501576	0.28372239	2.2937195	21	—	—
42959 1999 TC_{136}	15.6	X	75.19475	67.72670	279.95237	1.67564	0.0426087	0.23245388	2.6196595	21	—	—
42960 1999 TJ_{139}	16.2	X	337.40872	305.96068	7.77464	1.82971	0.1607716	0.26224343	2.4173135	21	7 4.6	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
42961 1999 TD_{140}	15.5	X	225.79314	62.58452	214.98552	14.41105	0.1091470	0.24245446	2.5471191	21	—	—
42962 1999 TQ_{140}	16.2	X	310.30267	320.68122	1.67872	2.42969	0.1835675	0.25968013	2.4331950	21	5 21.5	18.9
42963 1999 TH_{144}	13.7	X	181.11952	141.70440	18.18779	13.54502	0.1128448	0.22312428	2.6921846	21	9 20.7	17.9
42964 1999 TD_{147}	15.6	X	222.59180	172.09441	145.23257	4.24710	0.0263222	0.24777224	2.5105427	21	2 13.2	19.0
42965 1999 TH_{151}	14.4	X	253.37801	338.72157	116.01723	4.51146	0.0448247	0.22163335	2.7042447	21	9 26.3	18.0
42966 1999 TR_{151}	14.7	X	163.29137	190.08458	281.20172	2.78587	0.0434457	0.21244904	2.7816311	21	6 25.8	18.5
42967 1999 TR_{164}	16.0	X	64.89641	316.55705	318.08659	5.46636	0.2181007	0.27066524	2.3669062	21	10 24.9	19.3
42968 1999 TT_{165}	15.4	X	5.77527	209.88100	217.53959	12.56804	0.0638842	0.23365146	2.6107005	21	—	—
42969 1999 TD_{173}	14.6	X	181.27733	195.14993	85.88198	5.58990	0.0786805	0.23622507	2.5917040	21	—	—
42970 1999 TD_{174}	14.9	X	127.32791	161.52676	135.16522	3.62019	0.1064818	0.23170476	2.6253028	21	—	—
42971 1999 TW_{180}	15.2	X	185.08089	229.76116	130.50436	3.60235	0.1672486	0.24636574	2.5200888	21	3 3.1	19.2
42972 1999 TA_{181}	14.6	X	150.39088	105.97018	220.75049	14.05916	0.1337259	0.23718890	2.5846782	21	—	—
42973 1999 TU_{184}	13.7	X	293.44731	289.38688	262.77647	16.65183	0.1855765	0.23966274	2.5668611	21	—	—
42974 1999 TX_{186}	14.4	X	246.74969	316.18759	240.69015	13.55319	0.0273921	0.23415965	2.6069218	21	—	—
42975 1999 TW_{196}	14.4	X	271.11370	43.27062	337.61377	5.55201	0.0775047	0.21374648	2.7703634	21	7 6.1	18.1
42976 1999 TL_{211}	15.1	X	253.65446	186.12407	311.17675	3.97384	0.0554473	0.22987001	2.6392539	21	11 17.3	18.6
42977 1999 TH_{216}	15.9	X	299.85564	173.37463	157.88997	2.77667	0.2256476	0.26013211	2.4303757	21	5 12.8	18.9
42978 1999 TL_{219}	14.9	X	260.71808	198.31455	227.13169	8.56037	0.0651851	0.21937671	2.7227580	21	8 18.6	18.8
42979 1999 TR_{220}	15.3	X	351.76796	85.55288	232.61401	6.03828	0.1452274	0.26505642	2.4001801	21	8 11.1	17.6
42980 1999 TM_{224}	14.7	X	204.98725	64.91669	47.09086	3.93373	0.1278017	0.21738460	2.7393669	21	8 12.3	19.0
42981 Jenniskens	15.6	X	272.56581	28.42334	204.14584	5.94450	0.1427978	0.24385510	2.5373565	21	—	—
42982 1999 TC_{227}	15.6	X	235.25486	246.45118	90.76020	8.76431	0.1436926	0.25305703	2.4754668	21	3 24.0	19.6
42983 1999 TJ_{228}	15.9	X	320.96078	209.71662	121.85849	2.00891	0.1253259	0.26361783	2.4089042	21	7 3.9	18.4
42984 1999 TU_{228}	15.3	X	179.35771	241.44862	118.74942	4.09448	0.1878283	0.24654837	2.5188441	21	2 27.2	19.3
42985 1999 TR_{230}	13.9	X	298.51405	241.45283	191.17049	9.76485	0.1921499	0.17546738	3.1598888	21	9 30.9	17.8
42986 1999 TP_{231}	14.3	X	96.51405	76.25747	144.34070	11.87757	0.1553657	0.22087216	2.7104542	21	9 11.9	18.4
42987 1999 TB_{242}	14.0	X	278.66211	76.39389	89.88046	13.95594	0.1263129	0.23158200	2.6262305	21	—	—
42988 1999 TK_{242}	14.0	X	329.26524	304.77935	126.23066	6.83502	0.0162501	0.22728181	2.6592526	21	12 9.0	17.6
42989 1999 TO_{245}	14.9	X	344.58841	196.15164	159.82080	10.86089	0.0932382	0.22109941	2.7085966	21	9 23.1	17.9
42990 1999 TM_{251}	14.5	X	243.00580	344.31647	187.25713	15.28419	0.1009070	0.23110588	2.6298363	21	12 12.8	18.3
42991 1999 TY_{251}	15.6	X	23.60685	187.03382	107.23828	7.45851	0.1358667	0.26664140	2.3906592	21	9 14.4	18.1
42992 1999 TH_{260}	15.7	X	206.91151	100.98440	196.68505	1.79285	0.1244502	0.24309266	2.5426592	21	1 4.4	19.7
42993 1999 TP_{270}	14.3	X	4.92829	10.58457	246.63017	8.74260	0.1529659	0.21372912	2.7705134	21	6 6.4	16.9
42994 1999 TY_{273}	13.9	X	106.58796	6.89167	12.26195	8.10840	0.2467594	0.23784376	2.5799317	21	1 15.2	17.2
42995 1999 TR_{284}	14.3	X	183.28654	170.31354	96.24829	10.82519	0.1061468	0.23429317	2.6059313	21	—	—
42996 1999 TB_{291}	14.0	X	220.10459	89.80054	193.82049	12.53107	0.1680931	0.23999357	2.5645016	21	—	—
42997 1999 UM_{1}	15.3	X	102.80802	179.57503	70.25657	5.60263	0.1559753	0.27249868	2.3562776	21	10 30.5	18.8
42998 Malinafrank	13.6	X	297.62112	316.79946	248.20113	6.77911	0.1432323	0.23954002	2.5677377	21	—	—
42999 1999 UQ_{2}	14.6	X	316.58342	340.01640	152.33007	4.78003	0.1930412	0.18801898	3.0176457	21	—	—
43000 1999 UL_{8}	14.7	X	118.54746	154.58722	227.28132	12.37984	0.2092318	0.24053543	2.5606488	21	1 22.0	18.4
43001 1999 UE_{9}	13.7	X	93.10586	219.08363	212.29231	1.37736	0.0942078	0.19651478	2.9300333	21	2 15.7	17.4
43002 1999 US_{12}	15.9	X	290.35762	137.53568	203.93132	6.52341	0.1267079	0.26052135	2.4279543	21	5 29.9	18.9
43003 1999 UC_{14}	16.0	X	154.48422	183.40230	142.84372	3.25004	0.2574329	0.28681469	2.2772032	21	—	—
43004 1999 UR_{16}	14.9	X	232.61165	148.59842	256.95161	2.24599	0.0923335	0.21223439	2.7835063	21	6 18.6	18.9
43005 1999 UA_{17}	15.4	X	111.89398	38.67825	246.06225	3.62258	0.1819490	0.27757862	2.3274412	21	12 21.8	19.2
43006 1999 UG_{26}	14.3	X	342.69431	205.57411	274.67143	5.24548	0.1765613	0.18946273	3.0022961	21	—	—
43007 1999 UK_{27}	15.9	X	18.80613	246.35275	334.61836	1.97291	0.1301223	0.25787093	2.4445624	21	5 4.9	18.3
43008 1999 UD_{31}	15.7	X	47.78610	203.89532	126.23230	1.96835	0.1891309	0.27399043	2.3477172	21	12 15.9	18.7
43009 1999 UB_{39}	14.2	X	278.80555	110.09475	341.96315	4.72305	0.0701839	0.22466685	2.6798473	21	10 19.9	17.7
43010 1999 UE_{41}	14.1	X	78.78014	168.90326	78.33124	13.20633	0.0890097	0.21756142	2.7378824	21	9 22.3	18.1
43011 1999 UD_{42}	15.2	X	275.17637	54.82801	265.99300	3.89910	0.1855790	0.30172369	2.2015562	21	3 27.9	18.2
43012 1999 US_{49}	15.6	X	106.49416	238.75812	131.02243	4.01534	0.1004673	0.23782097	2.5800965	21	—	—
43013 1999 UX_{50}	16.0	X	23.80949	153.85483	150.19923	2.55605	0.2238740	0.26675578	2.3899757	21	10 11.6	18.3
43014 1999 UQ_{51}	13.1	X	175.05030	191.76829	96.24170	11.29652	0.0764532	0.18983728	2.9983457	21	—	—
43015 1999 UD_{52}	15.6	X	112.04285	221.07873	114.32833	7.50932	0.1403233	0.28019306	2.3129406	21	—	—
43016 1999 VM	15.2	X	7.96659	187.39182	172.80723	2.12712	0.0811245	0.22452499	2.6809760	21	11 4.6	18.3
43017 1999 VA_{2}	15.6	X	150.45096	122.87489	232.69983	23.89615	0.2895466	0.28799920	2.2709550	21	1 20.5	19.6
43018 1999 VY_{2}	13.9	X	230.80657	122.04340	271.80598	7.85093	0.1701035	0.20913998	2.8108953	21	5 25.8	18.5
43019 1999 VG_{3}	13.9	X	262.84990	311.49181	147.08796	1.92459	0.1262556	0.17434260	3.1734649	21	9 24.8	18.2
43020 1999 VO_{4}	14.9	X	18.08339	344.06340	41.94939	14.97161	0.1283052	0.22963703	2.6410387	21	12 30.4	18.4
43021 1999 VT_{5}	14.8	X	325.00008	4.58030	1.20609	4.95487	0.1649310	0.21770306	2.7366948	21	8 27.7	17.5
43022 1999 VR_{7}	13.3	X	84.93486	187.72474	58.38234	15.11259	0.0494857	0.17133432	3.2105035	21	9 19.7	18.1
43023 1999 VS_{12}	14.6	X	330.99610	292.35637	64.80322	9.21589	0.2816484	0.26520086	2.3993085	21	8 26.3	16.1
43024 1999 VU_{12}	13.7	X	310.41490	328.73655	65.54761	9.61905	0.1159829	0.21866717	2.7286447	21	9 20.9	17.0
43025 Valusha	15.5	X	48.96318	61.64323	324.22991	2.47482	0.1622213	0.27697668	2.3308120	21	—	—
43026 1999 VJ_{20}	13.9	X	14.02602	31.49684	331.74372	12.42066	0.1701099	0.22681389	2.6629088	21	11 26.5	17.2
43027 1999 VA_{23}	14.2	X	143.82970	348.42837	229.14090	14.38518	0.0474763	0.22320512	2.6915345	21	10 17.8	18.2
43028 1999 VE_{23}	13.3	X	75.51736	331.40499	64.65713	9.83846	0.1993726	0.23667855	2.5883924	21	—	—
43029 1999 VT_{24}	14.8	X	295.59018	268.20517	126.24110	2.77455	0.1882220	0.26214094	2.4179435	21	8 13.7	17.4
43030 1999 VK_{25}	14.7	X	150.64992	72.08716	272.25141	5.69420	0.2160584	0.23852541	2.5750142	21	1 14.8	18.7
43031 1999 VY_{25}	15.0	X	354.27838	289.50906	92.32811	10.37260	0.2832479	0.22263767	2.6961059	21	12 4.8	17.2
43032 1999 VR_{26}	14.5	X	257.14554	265.53790	56.13329	2.84955	0.0586210	0.20315734	2.8658120	21	4 5.6	18.7
43033 1999 VT_{29}	13.6	X	87.74828	352.59322	240.62928	16.34982	0.0867985	0.16991329	3.2283788	21	8 26.9	18.6
43034 1999 VO_{34}	14.0	X	4.08872	137.29955	247.63499	11.12303	0.1589283	0.22462958	2.6801437	21	12 10.3	17.0
43035 1999 VO_{35}	14.0	X	51.77784	64.84594	68.42666	10.40512	0.1185431	0.19610884	2.9340754	21	3 16.5	17.7
43036 1999 VF_{37}	14.8	X	295.21004	81.30698	247.16155	12.33005	0.2516759	0.25627905	2.4546749	21	4 25.8	18.4
43037 1999 VH_{37}	14.0	X	268.03046	273.92653	253.93743	7.56643	0.1493251	0.18120888	3.0927850	21	12 22.3	17.9
43038 1999 VV_{44}	15.2	X	16.44888	322.85877	345.52212	7.36053	0.2266043	0.26778630	2.3838402	21	9 30.9	17.3
43039 1999 VD_{45}	15.0	X	137.49109	111.00338	248.33324	5.10373	0.1417243	0.24155849	2.5534136	21	1 9.7	18.5
43040 1999 VT_{45}	15.0	X	294.88671	4.45047	305.58222	5.62932	0.1387105	0.25621070	2.4551114	21	4 16.6	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43041 1999 VC_{47}	14.2	X	50.25965	336.84943	46.65004	14.20874	0.1849867	0.23205579	2.6226546	21	—	—
43042 1999 VF_{47}	14.5	X	159.94846	320.43928	56.18832	14.85141	0.2020278	0.24507674	2.5289175	21	3 10.0	18.8
43043 1999 VN_{49}	15.0	X	8.48000	52.22281	247.72931	5.79113	0.0528319	0.21586930	2.7521713	21	8 8.5	18.5
43044 1999 VR_{49}	14.6	X	332.28865	98.28551	273.11744	5.23038	0.0469607	0.21951534	2.7216115	21	9 20.4	18.2
43045 1999 VV_{49}	14.6	X	310.22358	53.26194	44.38464	12.30697	0.1071979	0.18119769	3.0929124	21	11 30.3	18.6
43046 1999 VF_{50}	15.4	X	148.23113	73.08553	277.73999	3.04859	0.1763876	0.28625739	2.2801579	21	1 7.4	18.2
43047 1999 VT_{56}	15.4	X	175.69683	215.37924	146.42079	1.01504	0.1799759	0.24627816	2.5206862	21	2 24.4	19.5
43048 1999 VR_{59}	15.2	X	68.36590	123.37102	245.01912	0.80059	0.0974791	0.23281172	2.6169745	21	—	—
43049 1999 VD_{61}	15.0	X	119.13762	207.22132	58.48001	2.85778	0.0569579	0.22606303	2.6688020	21	11 21.8	18.9
43050 1999 VL_{66}	13.8	X	186.92567	144.15794	56.43529	12.94209	0.2002321	0.22323080	2.6913281	21	11 8.4	18.3
43051 1999 VF_{71}	14.7	X	285.79903	48.66179	189.90048	1.67265	0.0495511	0.19570865	2.9380738	21	1 27.6	18.7
43052 1999 VJ_{71}	16.2	X	112.98260	265.07865	54.81853	2.81149	0.1642692	0.27829162	2.3234641	21	—	—
43053 1999 VD_{72}	14.4	X	156.24249	289.29731	107.18179	13.18460	0.1823815	0.24166306	2.5526770	21	3 28.0	18.7
43054 1999 VU_{78}	15.3	X	63.72624	278.73010	28.21263	2.42533	0.2258153	0.27288379	2.3540602	21	12 7.6	18.7
43055 1999 VR_{81}	14.7	X	294.63411	20.40502	27.65191	15.60409	0.0367349	0.22176094	2.7032073	21	9 25.2	18.3
43056 1999 VW_{88}	15.1	X	174.81668	26.89202	26.37934	1.98616	0.0573476	0.20543506	2.8445900	21	4 25.9	19.4
43057 1999 VN_{92}	14.8	X	14.60753	213.11472	199.20374	4.20637	0.1174105	0.23228999	2.6208915	21	—	—
43058 1999 VT_{92}	15.1	X	92.46977	194.36496	15.22281	2.17310	0.1482973	0.26296573	2.4128850	21	8 24.6	18.2
43059 1999 VF_{93}	15.8	X	216.59058	46.87693	230.13148	1.15312	0.0785717	0.24214076	2.5493186	21	—	—
43060 1999 VS_{93}	15.6	X	15.01432	237.68241	35.49730	1.73403	0.1612315	0.26255751	2.4153853	21	7 24.5	17.7
43061 1999 VU_{93}	15.8	X	284.23645	296.94875	30.67394	5.70561	0.1520861	0.25750618	2.4468703	21	4 27.3	18.9
43062 1999 VC_{103}	15.2	X	221.04032	225.29414	53.71106	5.42490	0.2092432	0.24173384	2.5521787	21	—	—
43063 1999 VC_{104}	16.2	X	89.97029	219.69213	72.58513	2.99949	0.2320160	0.27258352	2.3557886	21	12 14.2	19.9
43064 1999 VK_{114}	14.1	X	83.48843	302.16315	310.07647	7.63314	0.0895391	0.26676104	2.3899443	21	9 28.1	17.4
43065 1999 VZ_{124}	14.6	X	281.97064	301.96735	2.14574	11.17387	0.2417037	0.25980891	2.4323908	21	3 14.9	18.3
43066 1999 VJ_{135}	15.4	X	138.26583	203.65637	115.38392	5.10223	0.1746335	0.28266149	2.2994552	21	—	—
43067 1999 VA_{140}	16.4	X	303.73940	287.27144	357.34419	2.08966	0.1756558	0.25429610	2.4674190	21	3 22.2	19.6
43068 1999 VK_{159}	15.1	X	272.49878	99.40517	265.59597	3.63505	0.0912545	0.21309567	2.7760011	21	6 13.7	19.0
43069 1999 VO_{160}	15.3	X	231.42456	29.86100	246.58003	4.02613	0.2033896	0.24245280	2.5471308	21	1 1.2	19.6
43070 1999 VD_{161}	14.0	X	289.67697	268.83215	278.77483	1.47648	0.0396430	0.18981782	2.9985507	21	—	—
43071 1999 VA_{173}	14.7	X	280.96593	342.01132	67.51529	6.47820	0.0627646	0.21770051	2.7367161	21	9 1.6	18.4
43072 1999 VS_{177}	15.2	X	174.57058	196.07371	91.39940	7.03483	0.1577742	0.28328886	2.2960590	21	—	—
43073 1999 VP_{184}	15.5	X	336.40461	249.95405	59.38660	7.37298	0.1787964	0.26125296	2.4234193	21	6 22.2	17.6
43074 1999 VT_{188}	14.7	X	59.09647	290.98294	203.11781	5.65722	0.0446993	0.19882832	2.9072601	21	3 13.4	18.6
43075 1999 VJ_{189}	14.3	X	330.03459	300.29383	223.66709	8.48242	0.0194636	0.19105101	2.9856335	21	—	—
43076 1999 VW_{189}	15.4	X	9.27309	182.93871	147.17326	2.90648	0.1392898	0.21882645	2.7273205	21	10 1.9	18.4
43077 1999 VY_{191}	15.3	X	255.85114	83.71225	202.95061	4.30838	0.0624938	0.24410342	2.5356354	21	2 10.5	18.9
43078 1999 VX_{192}	15.3	X	3.92487	74.00152	251.79663	5.22051	0.1397116	0.26719663	2.3873462	21	9 18.5	17.6
43079 1999 VS_{194}	14.8	X	110.68140	288.32689	132.93978	10.04409	0.0668116	0.19669388	2.9282545	21	2 23.6	18.9
43080 1999 VA_{198}	15.2	X	73.54672	170.30062	188.80715	15.15758	0.0541072	0.23226473	2.6210816	21	—	—
43081 1999 VA_{199}	15.1	X	284.52383	239.81848	75.72878	5.77751	0.1944713	0.30318545	2.1944742	21	4 4.3	18.1
43082 1999 VH_{216}	14.9	X	289.21356	320.12711	270.75468	7.14031	0.0999922	0.24304623	2.5429830	21	1 6.7	18.3
43083 Frankconrad	14.4	X	352.44773	15.95474	221.45172	4.45536	0.1573453	0.25217615	2.4812282	21	4 5.2	16.9
43084 1999 WQ_{1}	13.4	X	336.56901	315.76758	109.10979	18.58690	0.2754212	0.22710418	2.6606390	21	12 26.4	15.4
43085 1999 WE_{2}	14.7	X	153.61262	285.75068	234.24779	10.37618	0.0354558	0.21573545	2.7533095	21	8 12.4	18.9
43086 1999 WB_{7}	14.6	X	129.87666	294.12345	118.85854	2.74692	0.1473199	0.19793888	2.9159628	21	3 17.9	18.8
43087 1999 WW_{8}	13.1	X	254.13665	21.94158	81.60093	15.81032	0.2167443	0.17145437	3.2090047	21	9 16.2	18.2
43088 1999 WO_{9}	15.1	X	279.12981	208.22605	133.03708	7.86165	0.1842672	0.25657336	2.4527974	21	5 8.5	18.6
43089 1999 WP_{12}	13.8	X	52.61650	57.66895	205.65416	19.19519	0.0856878	0.17455789	3.1708550	21	8 22.4	18.5
43090 1999 WF_{20}	14.5	X	78.94521	40.68036	236.98497	12.05468	0.1737637	0.22464209	2.6800443	21	11 3.4	18.4
43091 1999 XL_{1}	13.7	X	344.77367	247.58582	263.72442	12.98795	0.1630723	0.18631971	3.0359657	21	—	—
43092 1999 XT_{5}	15.2	X	228.47563	100.47813	241.51931	1.11400	0.0814115	0.20258707	2.8711876	21	3 26.4	19.6
43093 1999 XA_{7}	13.9	X	14.27629	169.48565	255.72413	9.79118	0.0456088	0.18464203	3.0543280	21	—	—
43094 1999 XK_{7}	13.7	X	109.91803	158.67585	226.11408	13.26802	0.1879234	0.23859922	2.5744831	21	1 12.4	17.2
43095 1999 XF_{8}	13.5	X	240.94511	37.47190	100.10758	10.51040	0.0326324	0.17419159	3.1752988	21	11 1.8	18.2
43096 1999 XL_{11}	15.2	X	97.79642	21.58804	274.08211	7.52261	0.2492146	0.27449437	2.3448429	21	12 25.8	19.1
43097 1999 XM_{13}	15.1	X	331.58685	179.51280	174.15512	7.14498	0.0485726	0.21640263	2.7476476	21	8 27.8	18.5
43098 1999 XD_{14}	15.5	X	317.49714	129.64839	208.06635	10.66640	0.2387444	0.26027329	2.4294967	21	6 17.4	18.0
43099 1999 XO_{15}	14.1	X	6.29247	320.79999	151.73400	3.55521	0.0092582	0.18831385	3.0144948	21	—	—
43100 1999 XV_{15}	13.9	X	281.32644	317.45896	96.90858	9.03253	0.3836790	0.21622144	2.7491824	21	7 17.9	17.8
43101 1999 XX_{18}	15.1	X	49.70023	227.83962	203.18016	6.62348	0.2262246	0.28371024	2.2937850	21	—	—
43102 1999 XU_{19}	14.4	X	61.39908	346.67304	33.39265	11.27423	0.1496477	0.23438291	2.6052661	21	—	—
43103 1999 XC_{21}	15.5	X	213.48414	159.77497	217.98173	6.00897	0.2066851	0.25362740	2.4717541	21	4 16.4	19.5
43104 1999 XP_{21}	14.1	X	12.20386	160.40058	113.25066	9.15502	0.0704590	0.21159784	2.7890859	21	7 11.7	17.5
43105 1999 XM_{22}	14.5	X	74.36504	301.01258	63.74293	10.54889	0.1339717	0.23300218	2.6155482	21	—	—
43106 1999 XB_{26}	14.7	X	53.02982	239.97563	215.11116	8.85468	0.0318033	0.19325582	2.9628819	21	1 14.9	18.9
43107 1999 XG_{26}	13.8	X	7.88424	266.44888	238.71935	9.09298	0.1131099	0.24030054	2.5623172	21	—	—
43108 1999 XQ_{26}	15.0	X	111.41952	165.86910	278.57501	0.84561	0.0448646	0.20074843	2.8886922	21	3 19.8	18.9
43109 1999 XP_{28}	14.8	X	350.51019	223.82655	139.51555	2.53031	0.1021195	0.22059907	2.7126906	21	10 13.1	17.7
43110 1999 XH_{29}	13.0	X	171.69586	85.44678	90.87644	10.86745	0.1481242	0.17173691	3.2054841	21	9 29.2	18.4
43111 1999 XD_{30}	14.3	X	199.31432	344.45978	186.51834	5.40117	0.0994282	0.17409145	3.1765163	21	10 15.9	19.1
43112 1999 XK_{31}	13.5	X	90.60146	298.68991	133.26327	10.62166	0.0695471	0.19185214	2.9773161	21	2 11.7	17.5
43113 1999 XN_{31}	13.5	X	140.31984	89.11211	260.32180	8.61910	0.1116243	0.18719969	3.0264439	21	1 7.6	17.9
43114 1999 XR_{36}	13.1	X	338.04065	207.35818	358.00641	12.52807	0.0284099	0.19980206	2.8978067	21	2 26.3	17.0
43115 1999 XG_{39}	14.9	X	40.86336	160.91058	226.35655	11.39738	0.1916116	0.22955665	2.6416552	21	—	—
43116 1999 XN_{39}	14.6	X	293.54064	178.80543	206.44639	6.85310	0.2004246	0.21531834	2.7568641	21	7 21.3	18.2
43117 1999 XT_{42}	15.1	X	155.91411	67.88698	247.81766	4.97842	0.1554308	0.23735099	2.5835013	21	—	—
43118 1999 XD_{43}	14.1	X	78.37473	161.63036	250.08919	8.37996	0.0638460	0.19198549	2.9759373	21	—	—
43119 1999 XV_{44}	14.1	X	268.54720	206.33070	249.36184	4.11811	0.1083687	0.17487474	3.1670238	21	9 28.5	18.6
43120 1999 XB_{49}	14.7	X	354.18278	52.55572	249.08714	7.23737	0.1236062	0.25920298	2.4361801	21	7 20.9	17.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43121 1999 XM_{49}	14.3	X	153.48442	46.00238	338.73672	1.32882	0.0533158	0.19755631	2.9197261	21	2 26.1	18.3
43122 1999 XL_{50}	15.1	X	274.80917	205.59862	74.74534	6.25383	0.0768730	0.24558594	2.5254206	21	2 27.4	18.6
43123 1999 XT_{50}	14.1	X	245.85269	177.66928	80.08068	8.86313	0.1757514	0.23899702	2.5716255	21	—	—
43124 1999 XJ_{53}	15.0	X	306.07191	244.96402	101.21092	1.80108	0.0824289	0.21255160	2.7807363	21	7 6.7	18.3
43125 1999 XQ_{61}	14.4	X	20.36767	252.56739	90.35450	7.71587	0.1092673	0.22137064	2.7063837	21	11 5.4	17.7
43126 1999 XL_{64}	13.9	X	235.44952	308.09690	162.66568	0.45608	0.1394185	0.17015988	3.2252590	21	9 6.1	18.7
43127 1999 XD_{68}	14.5	X	292.75689	168.14846	213.81318	4.58191	0.0328384	0.16721577	3.2630061	21	8 8.4	19.1
43128 1999 XM_{68}	15.2	X	186.05968	241.86383	97.80033	4.63492	0.2691281	0.24367631	2.5385975	21	2 12.1	19.7
43129 1999 XY_{68}	14.6	X	318.29096	77.98423	245.87822	5.03108	0.0777492	0.20991699	2.8039547	21	6 24.9	18.2
43130 1999 XZ_{68}	14.5	X	155.24678	111.67085	84.70977	7.00222	0.0392690	0.21710750	2.7416973	21	10 9.1	18.5
43131 1999 XK_{72}	15.0	X	103.37419	143.65954	207.58581	0.98811	0.1686645	0.23274004	2.6175118	21	—	—
43132 1999 XO_{73}	14.0	X	166.78020	275.11934	85.43751	14.71142	0.0743898	0.24053453	2.5606552	21	2 10.5	17.8
43133 1999 XK_{76}	14.3	X	196.55395	236.91229	94.43814	12.74075	0.2024725	0.24182759	2.5515191	21	2 9.9	18.7
43134 1999 XU_{77}	14.0	X	248.35115	312.65967	92.55969	8.18729	0.2170352	0.21114548	2.7930681	21	6 22.5	18.4
43135 1999 XT_{82}	14.1	X	108.94621	125.32915	258.38107	6.72666	0.1559292	0.19005418	2.9960641	21	1 17.7	18.2
43136 1999 XE_{85}	13.8	X	342.11330	75.99246	110.20604	11.47287	0.0810360	0.19014036	2.9951587	21	2 1.7	17.7
43137 1999 XU_{85}	13.3	X	61.74477	63.71861	281.73936	10.45798	0.0959729	0.17704000	3.1411483	21	12 20.0	17.8
43138 1999 XJ_{86}	14.2	X	79.43380	199.68278	97.03892	12.57557	0.0644323	0.21795869	2.7345545	21	11 17.9	18.2
43139 1999 XM_{90}	12.9	X	326.23251	123.28594	283.87065	14.85820	0.0734479	0.17257479	3.1951002	21	10 16.9	17.4
43140 1999 XT_{90}	14.2	X	127.36066	85.15592	268.78258	13.31043	0.1346341	0.23298132	2.6157043	21	—	—
43141 1999 XR_{91}	13.8	X	308.45908	193.18543	106.10613	11.39727	0.1050122	0.24695070	2.5161076	21	5 5.5	17.1
43142 1999 XQ_{93}	13.7	X	100.97241	307.95951	100.52666	14.45658	0.1911262	0.23636825	2.5906572	21	2 6.7	17.0
43143 1999 XA_{97}	13.9	X	244.23470	273.14882	265.11347	14.19006	0.0458235	0.18057975	3.0999643	21	12 19.4	18.3
43144 1999 XD_{98}	14.4	X	134.94432	104.04037	261.47923	12.10464	0.2211866	0.23898920	2.5716816	21	1 22.7	18.3
43145 1999 XT_{98}	13.1	X	1.85090	18.06353	80.03616	12.05152	0.0310966	0.18476854	3.0529336	21	—	—
43146 1999 XN_{102}	13.3	X	215.92056	227.61162	91.15393	9.77687	0.0752670	0.19341045	2.9613024	21	2 18.3	17.9
43147 1999 XO_{105}	14.4	X	108.13862	335.64173	33.49743	4.58879	0.2702858	0.23676329	2.5877747	21	1 6.9	17.5
43148 1999 XB_{106}	14.2	X	297.51678	277.90718	115.78349	13.64764	0.3735270	0.21683173	2.7440214	21	7 11.4	17.7
43149 1999 XU_{107}	14.4	X	53.00280	37.53161	240.46953	10.22950	0.1145656	0.21952570	2.7215259	21	9 20.5	18.2
43150 1999 XF_{109}	15.6	X	22.23860	124.60103	208.04370	4.98000	0.2458045	0.26948254	2.3738264	21	11 23.6	18.0
43151 1999 XU_{114}	13.9	X	76.28834	176.03904	290.34572	14.26951	0.1014492	0.24323666	2.5416556	21	2 22.9	17.2
43152 1999 XM_{115}	13.1	X	189.86938	292.23216	266.58964	8.45263	0.1841177	0.17700671	3.1415422	21	11 1.6	18.5
43153 1999 XC_{118}	14.5	X	25.35894	38.58036	280.78502	3.98498	0.0468191	0.21960623	2.7208605	21	9 29.0	18.1
43154 1999 XH_{118}	14.7	X	231.13005	2.36935	42.60490	6.64293	0.0681961	0.21058290	2.7980404	21	6 18.1	18.8
43155 1999 XE_{120}	13.6	X	308.13386	285.99360	259.04357	9.13660	0.0674847	0.19128490	2.9831992	21	—	—
43156 1999 XF_{120}	14.0	X	315.26655	116.35431	269.49136	5.58253	0.0772801	0.21865347	2.7287587	21	9 11.8	17.5
43157 1999 XT_{120}	14.1	X	106.02591	278.14658	260.03283	12.58439	0.0153100	0.25619853	2.4551892	21	7 7.5	17.3
43158 1999 XK_{121}	15.0	X	335.90549	9.67442	28.67316	2.65039	0.2020815	0.26857575	2.3791666	21	11 20.4	16.7
43159 1999 XP_{121}	14.9	X	118.74817	71.67474	2.69089	2.01559	0.0210451	0.19890799	2.9064837	21	3 13.8	18.9
43160 1999 XY_{122}	13.4	X	278.11074	249.07037	304.03525	9.04339	0.0423689	0.18967312	3.0000755	21	—	—
43161 1999 XW_{123}	14.0	X	219.33479	260.18854	271.16247	11.36414	0.1102571	0.22360722	2.6883069	21	11 8.7	18.1
43162 1999 XE_{126}	14.5	X	353.43048	27.92701	281.01874	7.61374	0.0657483	0.21360794	2.7715611	21	7 29.6	17.9
43163 1999 XB_{127}	13.4	X	136.05693	47.00635	269.48416	11.86250	0.0351079	0.18641673	3.0349122	21	—	—
43164 1999 XJ_{154}	14.5	X	93.10422	169.75243	235.37923	9.23076	0.0935220	0.19156396	2.9803013	21	1 13.6	18.6
43165 1999 XA_{156}	14.7	X	205.14800	184.50449	107.40008	8.02207	0.1912388	0.23740605	2.5831018	21	—	—
43166 1999 XO_{156}	14.4	X	351.82177	210.73507	135.57446	4.64580	0.1257061	0.21712905	2.7415158	21	9 22.4	17.4
43167 1999 XY_{157}	14.4	X	206.33646	149.81772	239.46684	8.49066	0.1776617	0.20402645	2.8576677	21	4 27.6	19.1
43168 1999 XO_{161}	14.1	X	78.43057	32.28049	264.61738	11.63633	0.1555534	0.22299519	2.6932235	21	11 24.5	18.1
43169 1999 XE_{167}	13.8	X	344.00908	112.68265	273.35334	11.49933	0.1847971	0.22272150	2.6954294	21	11 1.8	16.7
43170 1999 XH_{171}	14.7	X	281.82826	88.71292	65.21299	4.78215	0.1454391	0.22423270	2.6833053	21	—	—
43171 1999 XF_{172}	13.4	X	269.74819	88.23812	77.95503	8.94382	0.1718609	0.17807001	3.1290237	21	12 18.7	17.5
43172 1999 XV_{172}	13.5	X	0.26076	336.79336	87.60735	14.11196	0.1022929	0.17924866	3.1152921	21	—	—
43173 1999 XK_{177}	12.5	X	108.70051	204.71229	86.40594	16.84796	0.0620914	0.17550483	3.1594392	21	12 4.8	17.2
43174 1999 XF_{180}	13.4	X	313.99715	87.22070	78.35846	15.99276	0.0635655	0.22792812	2.6542232	21	—	—
43175 1999 XY_{189}	14.3	X	244.55835	279.37919	355.79753	7.18247	0.2004003	0.28449057	2.2895887	21	1 5.5	18.2
43176 1999 XM_{196}	14.1	X	42.03817	317.84077	43.69448	11.19875	0.0972124	0.17756222	3.1349865	21	12 14.5	18.5
43177 1999 XQ_{198}	13.8	X	179.52386	112.08263	57.47448	14.44159	0.0442713	0.17075890	3.2177118	21	10 2.3	18.7
43178 1999 XH_{201}	14.4	X	118.15806	297.58310	12.12723	6.32133	0.1017357	0.18041174	3.1018885	21	—	—
43179 1999 XL_{204}	13.3	X	107.34065	235.16735	74.27143	17.09548	0.0770412	0.17708413	3.1406265	21	12 24.0	18.0
43180 1999 XT_{206}	13.8	X	266.98360	115.03540	77.00952	17.37684	0.1240601	0.17933334	3.1143113	21	—	—
43181 1999 XY_{206}	13.5	X	9.08914	327.49538	63.49136	14.19624	0.2066255	0.17544053	3.1602111	21	12 18.6	17.2
43182 1999 XG_{212}	14.8	X	161.40932	252.40345	104.29790	6.81015	0.1934420	0.28926088	2.2643467	21	1 31.7	18.0
43183 1999 XK_{213}	14.2	X	79.03638	166.38455	198.24440	10.70626	0.0193937	0.18377740	3.0639004	21	—	—
43184 1999 XD_{214}	14.1	X	254.93648	13.27649	154.30668	10.16073	0.0469819	0.18058200	3.0999385	21	12 20.1	18.6
43185 1999 XK_{222}	14.3	X	218.17936	28.11116	287.45277	8.66579	0.1215236	0.24216365	2.5491580	21	2 4.2	18.4
43186 1999 XQ_{230}	15.0	X	159.42772	78.60580	253.62508	8.52403	0.2135158	0.24109551	2.5566815	21	1 7.3	19.0
43187 1999 XF_{233}	14.3	X	112.65072	219.72515	131.04637	8.50830	0.1302137	0.23420905	2.6065553	21	—	—
43188 1999 XP_{234}	14.5	X	327.64394	241.50016	124.52363	6.40014	0.0911752	0.21710556	2.7417136	21	9 8.5	17.7
43189 1999 XR_{240}	14.7	X	327.07886	139.87413	204.80227	3.47145	0.0977658	0.21512051	2.7585541	21	8 4.2	17.9
43190 1999 XR_{241}	14.7	X	132.20948	88.72926	223.10056	8.06579	0.1610490	0.23274983	2.6174384	21	—	—
43191 1999 YM_{5}	13.7	X	87.85995	268.03557	82.54854	15.32117	0.1638578	0.18280481	3.0747583	21	—	—
43192 1999 YG_{13}	14.2	X	12.71128	286.09806	80.81674	16.44363	0.1230368	0.22386765	2.6862215	21	11 27.2	17.4
43193 Secinaro	14.7	X	9.97755	9.03855	98.07360	2.56757	0.1407742	0.18433572	3.0577106	21	—	—
43194 2000 AJ_{6}	14.2	X	134.87763	104.08335	183.88520	1.33639	0.1601309	0.17786005	3.1314858	21	12 29.8	19.4
43195 2000 AP_{13}	14.0	X	45.57496	25.35938	276.55103	7.08546	0.0685891	0.17159175	3.2072915	21	9 29.7	18.5
43196 2000 AH_{32}	15.0	X	180.85416	358.08898	335.85107	5.70565	0.1740049	0.28190856	2.3035477	21	1 21.7	18.5
43197 2000 AU_{44}	15.9	X	95.90585	244.48313	67.35944	2.20528	0.1899512	0.26761672	2.3848472	21	—	—
43198 2000 AD_{62}	13.8	X	88.81872	144.47159	309.79651	8.55186	0.0429290	0.19082878	2.9879509	21	3 2.2	18.0
43199 2000 AJ_{68}	12.9	X	90.00342	216.56003	85.84898	9.13506	0.0516051	0.17979459	3.1089827	21	11 26.9	17.4
43200 2000 AO_{68}	15.6	X	127.94747	253.19769	83.51439	8.67229	0.1884301	0.28141056	2.3062645	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43201 2000 AT_{69}	14.6	X	86.79818	230.53130	99.64541	12.83817	0.1837572	0.22873184	2.6480019	21	—	—
43202 2000 AQ_{70}	12.4	X	238.48676	49.25316	95.21536	23.76449	0.1159587	0.17532946	3.1615457	21	11 3.5	17.5
43203 2000 AV_{70}	14.9	X	13.30538	221.36710	146.17686	4.95953	0.2274706	0.22405940	2.6846887	21	12 12.9	17.8
43204 2000 AA_{71}	13.6	X	255.12603	12.85495	107.55351	9.71742	0.0822040	0.17465574	3.1696706	21	10 22.5	18.2
43205 2000 AV_{72}	13.7	X	228.57140	114.83408	84.92683	15.43202	0.0580591	0.18172941	3.0868764	21	12 24.9	18.0
43206 2000 AJ_{78}	14.2	X	144.93345	252.18414	103.80004	9.71570	0.0961518	0.19038908	2.9925497	21	1 19.3	18.5
43207 2000 AJ_{79}	14.8	X	83.51912	340.01036	115.28922	9.17334	0.1342490	0.23921298	2.5700775	21	3 7.1	17.9
43208 2000 AW_{98}	12.8	X	55.70567	240.57790	61.03942	17.57841	0.2210317	0.18026395	3.1035837	21	11 10.3	17.2
43209 2000 AP_{101}	15.5	X	75.22706	88.56911	233.01384	8.08135	0.2273786	0.27580939	2.3373837	21	—	—
43210 2000 AS_{101}	15.0	X	145.05807	209.25086	99.33787	6.02314	0.1791514	0.28155393	2.3054816	21	—	—
43211 2000 AR_{105}	14.5	X	175.42279	24.95005	240.66377	11.70145	0.1288517	0.22771215	2.6559012	21	—	—
43212 2000 AL_{113}	12.2	X	272.26600	258.68340	223.22652	6.47605	0.0581427	0.08110932	5.2855342	21	10 30.4	19.2
43213 2000 AC_{132}	14.0	X	23.73814	85.96006	287.42736	6.16532	0.0497710	0.17584984	3.1553054	21	11 29.4	18.4
43214 2000 AQ_{135}	13.9	X	89.19694	281.61098	14.85425	5.00703	0.1378673	0.17331673	3.1859752	21	11 25.4	18.7
43215 2000 AN_{138}	14.5	X	84.83717	202.48093	93.88973	7.98413	0.1177195	0.27346795	2.3507066	21	12 5.9	17.7
43216 2000 AB_{139}	15.0	X	163.15198	187.45812	106.99307	7.71331	0.1197091	0.28230439	2.3013939	21	—	—
43217 2000 AE_{139}	14.8	X	157.90411	219.15885	124.94524	7.54983	0.1475356	0.28776820	2.2721701	21	1 5.7	17.9
43218 2000 AE_{143}	13.2	X	124.29885	145.25376	275.35694	9.22234	0.0901848	0.19028487	2.9936421	21	3 8.9	17.7
43219 2000 AC_{150}	14.2	X	33.68618	288.95178	202.04658	9.68637	0.0475355	0.19124693	2.9835940	21	2 2.6	18.3
43220 2000 AR_{150}	14.0	X	216.71262	297.01562	216.30171	12.01603	0.0628635	0.17008395	3.2262188	21	10 14.2	18.7
43221 2000 AJ_{151}	14.8	X	49.40470	1.55042	55.65655	7.01816	0.1085167	0.28291751	2.2980678	21	—	—
43222 2000 AG_{155}	14.8	X	350.09439	294.51744	21.98615	1.49190	0.1793278	0.25961752	2.4335861	21	8 7.9	16.5
43223 2000 AE_{162}	15.0	X	117.47932	55.75895	338.64292	3.32456	0.1000538	0.28054218	2.3110212	21	1 16.1	17.5
43224 Tonypensa	14.3	X	7.59451	195.35250	199.81575	12.74511	0.1628376	0.22539395	2.6740809	21	12 29.3	17.7
43225 2000 AW_{165}	14.1	X	326.89257	275.99328	150.53798	13.22688	0.2421076	0.17625898	3.1504207	21	11 16.2	17.4
43226 2000 AM_{166}	13.4	X	292.99778	23.73751	241.04886	13.01030	0.1215917	0.19276318	2.9679277	21	2 22.3	18.0
43227 2000 AR_{166}	13.3	X	123.73521	142.86778	156.57536	16.51155	0.0118128	0.17731599	3.1378881	21	12 27.1	18.1
43228 2000 AH_{169}	14.1	X	73.46433	254.75696	181.00574	10.11158	0.0897953	0.19249742	2.9706588	21	1 24.0	18.1
43229 2000 AD_{174}	13.6	X	192.22004	49.86167	132.45024	11.70063	0.0863051	0.17325114	3.1867792	21	10 26.9	18.6
43230 2000 AX_{175}	13.9	X	347.30828	195.23978	227.88741	11.37842	0.1793586	0.17880488	3.1204446	21	12 19.7	17.5
43231 2000 AU_{177}	12.4	X	180.50877	10.44056	227.75738	13.36465	0.1735298	0.17604979	3.1529158	21	12 10.8	17.7
43232 2000 AH_{178}	14.4	X	348.40046	148.13097	220.65044	7.02365	0.3430833	0.22053751	2.7131954	21	11 3.5	15.6
43233 2000 AQ_{179}	14.3	X	171.12516	111.33870	244.55064	9.58344	0.1195821	0.19222619	2.9734526	21	2 12.1	19.2
43234 2000 AN_{186}	15.0	X	59.20929	270.28178	106.59670	14.32962	0.1365552	0.23247964	2.6194660	21	—	—
43235 2000 AX_{197}	13.9	X	320.05686	79.75246	266.46627	12.11978	0.0831725	0.20640132	2.8357052	21	7 24.9	17.7
43236 2000 AB_{199}	13.7	X	180.11516	307.19998	264.26222	11.17822	0.0625006	0.17038317	3.2224406	21	11 12.6	18.6
43237 2000 AB_{204}	14.7	X	158.49710	218.29275	174.70711	10.52522	0.1185509	0.19254031	2.9702176	21	3 20.0	19.2
43238 2000 AT_{233}	15.3	X	177.93712	172.04254	183.43234	5.03504	0.2266314	0.24603297	2.5223606	21	2 20.1	19.5
43239 2000 AK_{238}	14.8	X	214.94351	21.98314	238.88364	0.97419	0.2234382	0.18638323	3.0352758	21	—	—
43240 2000 AP_{240}	13.7	X	164.53073	36.97074	227.64190	13.96054	0.1367860	0.18086666	3.0966850	21	12 27.7	18.9
43241 2000 AB_{244}	14.6	X	250.76451	345.67379	79.29323	5.84248	0.1597758	0.21686342	2.7437541	21	7 28.1	18.6
43242 2000 AK_{244}	14.4	X	46.69577	166.58589	220.35515	21.27123	0.0723116	0.22938214	2.6429948	21	—	—
43243 2000 AB_{253}	14.6	X	84.72466	210.51620	126.40808	2.26195	0.1613890	0.17816751	3.1278821	21	—	—
43244 2000 AR_{253}	14.3	X	110.25246	196.86952	117.00793	2.49418	0.1865024	0.17741563	3.1367131	21	—	—
43245 2000 BB_{15}	14.0	X	229.52640	164.29083	40.47422	9.01341	0.2403777	0.21837669	2.7310639	21	12 15.5	18.1
43246 2000 BB_{18}	14.8	X	151.92670	314.38188	80.72735	6.33368	0.2213706	0.24155052	2.5534698	21	3 22.5	18.9
43247 2000 BV_{25}	14.4	X	332.48988	6.55681	97.52252	3.45973	0.0661733	0.17842816	3.1248353	21	—	—
43248 2000 BD_{26}	14.1	X	61.22802	167.61648	132.27723	10.36228	0.1505397	0.21236293	2.7823830	21	11 11.2	18.2
43249 2000 BQ_{29}	13.7	X	96.58267	300.75036	54.94626	11.14694	0.1760970	0.18433376	3.0577323	21	—	—
43250 2000 CG_{3}	14.6	X	148.60217	308.27191	110.98666	12.91809	0.1275207	0.24565817	2.5249256	21	4 13.0	18.6
43251 2000 CX_{4}	13.5	X	15.81818	244.61717	133.62405	11.38127	0.1026861	0.17539982	3.1607000	21	12 3.5	17.7
43252 2000 CB_{10}	14.1	X	49.60826	198.73284	134.37154	2.01289	0.1620284	0.17284507	3.1917685	21	11 29.4	18.5
43253 2000 CY_{18}	15.2	X	41.50073	317.96376	143.47470	2.55319	0.0056483	0.23153061	2.6266191	21	—	—
43254 2000 CE_{35}	15.1	X	180.42946	112.32405	205.46475	2.71469	0.0461542	0.23086515	2.6316642	21	—	—
43255 2000 CT_{62}	14.7	X	207.04186	115.14033	199.94382	6.45219	0.1684755	0.27530939	2.3402129	21	1 20.5	18.5
43256 2000 CF_{82}	14.4	X	129.24157	99.13853	14.82226	1.85320	0.0432109	0.19701276	2.9250939	21	5 18.8	18.5
43257 2000 CO_{87}	15.3	X	277.01454	260.62904	322.49344	6.50869	0.0700674	0.27482148	2.3429819	21	—	—
43258 2000 CH_{91}	14.3	X	343.72076	270.17003	156.28749	5.68693	0.0468226	0.21723820	2.7405975	21	12 20.9	17.9
43259 Wangzhenyi	13.4	X	341.25304	150.39016	132.71841	10.74863	0.1696494	0.23767855	2.5811271	21	5 27.6	16.2
43260 2000 CV_{116}	13.4	X	95.54333	233.26784	109.71312	10.48250	0.0782309	0.17478706	3.1680828	21	—	—
43261 2000 DF_{3}	14.9	X	297.81284	133.80792	112.31358	10.10419	0.1831881	0.27608694	2.3358169	21	1 20.1	18.1
43262 2000 DL_{4}	13.6	X	300.61837	114.32749	12.47735	6.36095	0.1090315	0.17535154	3.1612802	21	12 22.2	17.6
43263 2000 DM_{19}	14.8	X	281.08490	68.72974	313.55278	1.04721	0.0823141	0.20599878	2.8393980	21	7 19.9	18.5
43264 2000 DZ_{52}	15.5	X	234.38986	183.56204	180.96911	4.19414	0.2575018	0.24303961	2.5430292	21	4 17.1	19.7
43265 2000 DX_{54}	16.8	X	38.93804	173.34895	153.26227	2.65806	0.0936946	0.30304013	2.1951757	21	11 21.6	19.3
43266 2000 DZ_{83}	14.3	X	126.59044	252.01028	115.57205	2.95063	0.0820672	0.18287866	3.0739304	21	1 11.8	18.7
43267 2000 DL_{84}	14.1	X	125.85886	208.17455	109.43182	6.60120	0.1599058	0.17565039	3.1576935	21	—	—
43268 2000 DP_{93}	15.5	X	322.11360	175.99854	348.27584	5.83535	0.0465303	0.27384929	2.3485238	21	—	—
43269 2000 DO_{98}	13.8	X	184.99980	253.38002	122.81199	11.56690	0.1134805	0.19173995	2.9784774	21	3 30.0	18.6
43270 2000 ED_{9}	14.9	X	216.05827	142.22739	149.68865	12.41115	0.2545404	0.22663244	2.6643299	21	1 9.3	19.7
43271 2000 EQ_{13}	14.3	X	49.58201	219.90684	132.82052	6.47037	0.0860031	0.21653840	2.7464989	21	12 20.9	18.1
43272 2000 ED_{34}	15.0	X	202.04876	194.38398	94.95883	10.84767	0.1136614	0.27055877	2.3675271	21	—	—
43273 2000 EL_{41}	15.7	X	43.57706	102.38942	163.19059	5.02135	0.0622133	0.29238071	2.2482102	21	8 22.4	18.2
43274 2000 ER_{56}	15.1	X	201.07079	69.03968	143.60208	2.47164	0.1307518	0.26080083	2.4262194	21	12 16.3	18.5
43275 2000 ED_{95}	13.5	X	306.51362	326.04838	336.50941	11.85066	0.1687030	0.23732677	2.5836771	21	4 16.7	17.0
43276 2000 EE_{95}	14.7	X	179.32919	106.37063	299.05955	6.98273	0.1409004	0.28441296	2.2900052	21	4 14.4	18.3
43277 2000 EZ_{96}	13.4	X	238.77978	244.61524	8.66234	13.97672	0.1115499	0.17455097	3.1709389	21	—	—
43278 2000 ES_{109}	13.8	X	235.21816	352.15594	325.56580	20.28679	0.2479752	0.23106247	2.6301657	21	2 20.1	18.4
43279 2000 EY_{112}	14.4	X	341.65995	283.43752	36.90979	2.93779	0.0155016	0.19845438	2.9109110	21	7 30.7	18.3
43280 2000 EY_{131}	16.0	X	69.04937	312.07466	145.13061	4.87410	0.0694806	0.27722605	2.3294140	21	1 24.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43281 2000 EL_{137}	15.1	X	340.65075	152.49307	114.47575	8.28266	0.1075085	0.28384349	2.2930671	21	5 5.4	17.5
43282 Dougbock	15.5	X	66.25066	61.04922	191.78479	5.56801	0.1241307	0.29404490	2.2397194	21	9 17.5	18.1
43283 Robinbock	14.2	X	40.13711	179.11514	211.01927	13.55318	0.2657247	0.22306313	2.6926766	21	—	—
43284 2000 ED_{151}	15.0	X	41.21907	27.28839	162.35689	9.06549	0.1343755	0.28317114	2.2966953	21	5 2.8	17.1
43285 2000 ED_{156}	15.5	X	258.74765	261.68717	259.83843	5.56773	0.1006204	0.26284823	2.4136040	21	12 28.2	18.3
43286 2000 EA_{158}	13.9	X	246.79511	76.81104	245.13078	6.46378	0.1545116	0.23264543	2.6182214	21	3 9.8	18.1
43287 2000 FJ_{3}	14.0	X	340.31986	158.70376	107.96389	14.61896	0.1368212	0.23866969	2.5739762	21	5 8.6	17.1
43288 2000 FB_{16}	14.8	X	5.02723	167.08923	92.26767	6.24222	0.1391882	0.28715109	2.2754244	21	6 6.0	16.4
43289 2000 FE_{44}	14.7	X	247.19262	133.28703	170.36929	15.07111	0.1922534	0.22891624	2.6465797	21	2 15.8	19.1
43290 2000 FV_{48}	13.7	X	230.94247	264.14800	326.28222	10.02556	0.1513405	0.17131228	3.2107787	21	—	—
43291 2000 FY_{48}	13.6	X	242.67248	46.81494	245.50143	8.05250	0.0682633	0.18057452	3.1000241	21	2 10.5	18.4
43292 2000 FP_{49}	13.8	X	173.32113	34.30682	256.44167	7.42727	0.1331106	0.21696818	2.7428708	21	—	—
43293 Banting	13.5	X	175.33540	89.22388	235.18486	5.98359	0.0631134	0.17476883	3.1683031	21	1 12.6	18.3
43294 2000 GY_{4}	14.4	X	71.12320	107.89264	103.86440	15.96865	0.1930398	0.24295242	2.5436376	21	8 7.1	17.8
43295 2000 GZ_{35}	15.6	X	347.92857	319.67903	11.63520	6.94651	0.1943153	0.29130078	2.2537632	21	9 4.4	16.9
43296 2000 GM_{53}	15.3	X	37.07509	178.07207	209.21539	7.00521	0.2071487	0.26038281	2.4288154	21	—	—
43297 2000 GB_{64}	16.1	X	159.23829	200.74212	208.89349	5.20297	0.0916299	0.28021051	2.3128445	21	3 28.6	19.1
43298 2000 GL_{67}	14.6	X	105.90951	100.63953	200.40705	8.40029	0.1427047	0.20932705	2.8092204	21	12 23.3	19.1
43299 2000 GD_{73}	16.0	X	46.79266	91.49688	202.87516	1.01543	0.1721617	0.24624747	2.5208956	21	10 21.0	19.1
43300 2000 GZ_{87}	15.1	X	22.19681	54.11713	82.89005	7.29071	0.0599558	0.27379530	2.3488325	21	1 7.7	17.6
43301 2000 GL_{108}	15.3	X	358.07083	339.25064	163.20176	7.04325	0.1386198	0.27143138	2.3624503	21	—	—
43302 2000 GE_{114}	14.7	X	127.25428	125.93496	217.28441	5.21237	0.1180670	0.26549272	2.3975498	21	—	—
43303 2000 GO_{133}	14.5	X	335.59349	165.24138	191.97416	12.02410	0.0370921	0.20033632	2.8926524	21	9 5.2	18.4
43304 2000 GZ_{133}	14.3	X	296.14960	190.36637	170.18570	13.15471	0.1661432	0.24044519	2.5612894	21	6 27.9	17.7
43305 2000 GH_{142}	14.0	X	343.44719	268.95994	81.14640	14.20782	0.2414214	0.24534481	2.5270750	21	9 26.2	16.2
43306 2000 GW_{157}	14.0	X	154.79255	49.74061	292.27437	5.14193	0.1449654	0.27169582	2.3609172	21	1 2.8	17.2
43307 2000 HU_{21}	15.1	X	144.05513	120.07796	236.00450	1.71385	0.1878269	0.26639435	2.3921370	21	1 14.6	18.5
43308 2000 HY_{26}	15.7	X	175.48016	311.39357	101.48943	6.87066	0.0838244	0.28209391	2.3025385	21	4 24.6	19.0
43309 2000 HH_{34}	16.2	X	342.42129	115.95559	330.67508	2.44007	0.0463416	0.30746818	2.1740487	21	—	—
43310 2000 HN_{37}	15.5	X	299.49405	55.65847	130.31376	12.53446	0.1306687	0.26683273	2.3895162	21	—	—
43311 2000 HH_{55}	15.2	X	254.48229	109.62135	220.45707	5.84029	0.1279568	0.27631713	2.3345195	21	3 26.8	18.7
43312 2000 HB_{68}	16.1	X	173.38764	98.61727	149.52765	4.85438	0.0437929	0.30550408	2.1833568	21	—	—
43313 2000 JW	15.3	X	110.13910	321.78880	70.01496	9.89018	0.2204127	0.26825263	2.3810767	21	1 25.9	18.2
43314 2000 JC_{12}	14.6	X	268.21378	317.43806	48.37702	10.41071	0.1852972	0.23928396	2.5695692	21	5 25.2	18.4
43315 2000 JB_{18}	15.2	X	324.42181	11.62828	123.10577	3.11166	0.1422746	0.26505848	2.4001677	21	—	—
43316 2000 JV_{19}	15.0	X	316.32843	267.79728	290.64847	5.73450	0.0967213	0.27217558	2.3581419	21	—	—
43317 2000 JY_{21}	15.5	X	324.56405	195.08858	318.73419	1.98160	0.1081297	0.26721674	2.3872264	21	—	—
43318 2000 JO_{37}	14.6	X	20.50194	36.31999	241.87187	6.05975	0.1002747	0.23947908	2.5681733	21	8 1.9	17.6
43319 2000 JA_{38}	14.7	X	235.81740	162.39715	61.14688	15.36491	0.1258315	0.26135391	2.4227952	21	—	—
43320 2000 JG_{44}	15.6	X	328.88838	357.26138	60.68214	2.14437	0.1093793	0.25348041	2.4727096	21	11 27.5	18.1
43321 2000 JR_{52}	14.5	X	18.46329	354.02959	320.58795	5.46613	0.3119214	0.24113582	2.5563966	21	10 24.2	17.0
43322 2000 JQ_{69}	14.4	X	58.91659	104.65801	91.14335	14.98564	0.1518167	0.24228173	2.5483297	21	6 17.8	17.1
43323 2000 JY_{72}	15.4	X	97.19414	41.21395	104.96549	7.51785	0.1085144	0.28242023	2.3007646	21	5 27.3	18.1
43324 2000 KQ_{15}	14.0	X	76.22761	184.75626	234.31390	13.13348	0.1957660	0.21999675	2.7176396	21	1 11.5	17.2
43325 2000 KY_{50}	13.9	X	284.73904	141.04849	71.74231	9.43905	0.2000596	0.22029988	2.7151461	21	—	—
43326 2000 KH_{73}	15.2	X	229.63869	355.23869	269.73597	3.17461	0.1095301	0.30831886	2.1700479	21	—	—
43327 2000 LH_{3}	14.2	X	137.76815	161.38553	183.29664	9.04460	0.1577870	0.21443294	2.7644477	21	—	—
43328 2000 OU_{15}	15.3	X	216.27686	252.01619	150.41662	6.52237	0.2393219	0.27258547	2.3557774	21	5 20.1	19.3
43329 2000 OU_{25}	15.6	X	4.88965	1.40709	355.48340	2.95472	0.1580299	0.28806213	2.2706242	21	11 16.8	17.6
43330 2000 OQ_{30}	15.2	X	36.59231	44.20570	187.73865	6.76956	0.1445456	0.27910230	2.3189627	21	6 29.5	17.4
43331 2000 PS_{6}	15.3	X	178.97686	341.95424	155.68715	24.53292	0.0756642	0.37083357	1.9187425	21	8 26.9	17.2
43332 2000 QG_{6}	14.8	X	184.48987	347.89398	328.95448	12.80797	0.2092379	0.25852446	2.4404409	21	1 11.4	18.9
43333 2000 QY_{64}	14.6	X	33.62452	242.78496	72.12315	6.89170	0.2292729	0.28547098	2.2843435	21	11 16.5	17.1
43334 2000 QM_{117}	15.6	X	276.19986	265.30984	145.81237	17.82308	0.0720582	0.37154385	1.9162963	21	9 8.5	17.1
43335 2000 QX_{127}	14.8	X	209.25483	268.63435	66.48386	2.30792	0.2010368	0.26074661	2.4265557	21	2 20.8	18.8
43336 2000 QT_{148}	14.6	X	329.22664	225.41854	234.76485	10.62104	0.1366845	0.23732573	2.5836846	21	—	—
43337 2000 RG_{9}	14.9	X	351.99002	35.98089	68.20893	8.54937	0.1579349	0.28884351	2.2665274	21	—	—
43338 2000 RA_{10}	14.5	X	299.77306	345.13045	156.69990	4.24887	0.2029247	0.23761313	2.5816008	21	—	—
43339 2000 RM_{10}	15.0	X	117.75153	202.63535	226.95641	4.25417	0.1423248	0.30162312	2.2020455	21	3 6.5	17.7
43340 2000 RX_{46}	14.3	X	261.53798	19.93289	256.86737	5.45949	0.1063067	0.21250831	2.7811139	21	2 5.3	18.5
43341 2000 RK_{62}	13.3	X	143.92601	220.50826	68.85162	15.94725	0.0980463	0.23951933	2.5678856	21	—	—
43342 2000 RO_{67}	12.7	X	236.11638	44.39041	55.06236	22.39480	0.0439692	0.17815825	3.1279905	21	9 18.4	17.6
43343 2000 RY_{81}	13.3	X	258.75773	105.76446	299.01797	15.10375	0.2391683	0.18025503	3.1036861	21	7 1.3	18.2
43344 2000 RR_{85}	15.2	X	42.03827	213.03250	314.03196	5.72846	0.0729782	0.26634282	2.3924455	21	3 22.1	17.8
43345 2000 RB_{88}	14.4	X	336.75630	49.30528	265.15301	13.68721	0.1711650	0.23065623	2.6332530	21	7 1.9	17.0
43346 2000 RT_{103}	14.4	X	303.77725	351.36096	277.07624	8.51053	0.1907198	0.26654593	2.3912300	21	2 20.9	17.8
43347 2000 SM_{52}	14.1	X	36.23530	24.50693	306.13142	11.00937	0.2000086	0.23705724	2.5856351	21	11 24.3	17.5
43348 2000 SK_{108}	15.9	X	317.38380	70.44714	195.91720	1.81022	0.1862435	0.26787542	2.3833115	21	3 11.9	18.7
43349 2000 SK_{160}	15.1	X	353.90818	47.81228	305.78874	5.98598	0.2567124	0.27706283	2.3303288	21	10 28.6	16.7
43350 2000 SG_{161}	15.3	X	10.27746	338.82848	75.10899	6.12423	0.1716484	0.28398600	2.2922999	21	—	—
43351 2000 SX_{169}	15.4	X	87.20516	101.72768	7.60134	4.99449	0.0926519	0.30608218	2.1806067	21	3 11.5	17.4
43352 2000 SH_{265}	15.7	X	103.79184	20.51400	76.74880	3.53424	0.1453867	0.26000538	2.4311653	21	4 5.4	18.8
43353 2000 SJ_{275}	14.6	X	27.05058	116.62948	54.80989	13.64173	0.1416579	0.25729750	2.4481931	21	3 16.2	17.2
43354 2000 SZ_{278}	12.3	X	315.60049	286.62187	59.46259	22.59792	0.1001853	0.17633977	3.1494583	21	7 20.7	16.8
43355 2000 SY_{293}	14.8	X	240.88360	300.55549	231.75548	24.12860	0.1813649	0.28459008	2.2890549	21	12 8.1	17.7
43356 2000 TJ_{29}	14.2	X	286.12766	256.49098	240.88827	22.35973	0.3077144	0.23665774	2.5885441	21	12 1.2	16.6
43357 2000 UM_{19}	15.6	X	63.46841	38.75185	211.98996	20.67170	0.0542089	0.36928351	1.9241080	21	8 29.9	18.0
43358 2000 UQ_{32}	14.8	X	132.48622	221.72389	93.18384	3.30353	0.0661271	0.19645667	2.9306111	21	—	—
43359 2000 UF_{41}	15.3	X	83.72568	152.26948	340.18271	1.84864	0.0862182	0.30737087	2.1745075	21	4 6.9	17.3
43360 2000 UU_{49}	15.0	X	209.66902	28.52470	215.10074	5.34454	0.1264046	0.29146069	2.2529388	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43361 2000 UA_{50}	15.3	X	272.79982	321.19751	223.12221	3.98231	0.1028000	0.29035250	2.2586677	21	—	—
43362 2000 VK_{2}	14.9	X	189.60365	342.12148	67.08033	3.80198	0.1622703	0.30694842	2.1765022	21	5 3.2	18.2
43363 2000 VG_{35}	14.9	X	195.47288	45.22919	78.17606	10.16380	0.1400539	0.26939010	2.3743695	21	8 21.4	18.6
43364 2000 VZ_{35}	15.6	X	95.24306	227.99531	186.91835	4.49393	0.1697199	0.29660676	2.2268041	21	1 14.7	17.7
43365 2000 VA_{36}	15.3	X	62.21366	318.13124	119.02553	6.70319	0.1168533	0.29415535	2.2391587	21	—	—
43366 2000 VZ_{37}	15.2	X	127.58717	34.70076	75.34676	4.18334	0.1348559	0.25823649	2.4422548	21	5 20.0	18.5
43367 2000 VL_{47}	14.3	X	127.20557	249.02403	46.55017	15.57356	0.1144841	0.23982650	2.5656925	21	—	—
43368 2000 VZ_{62}	14.6	X	353.64157	347.54617	3.18711	26.18560	0.1920939	0.28489912	2.2873993	21	10 10.5	16.5
43369 2000 WP_{3}	15.4	X	303.35230	245.50825	141.46706	27.76987	0.1490302	0.36987564	1.9220539	21	9 8.5	16.6
43370 2000 WD_{5}	15.0	X	270.47999	226.91727	307.83845	7.01985	0.1240257	0.24089408	2.5581066	21	—	—
43371 2000 WJ_{8}	15.6	X	186.89793	14.56908	10.46512	4.30562	0.1813427	0.30716467	2.1754806	21	3 29.5	18.8
43372 2000 WO_{15}	14.0	X	70.60613	192.40276	92.83497	24.59052	0.1932805	0.27307674	2.3529511	21	11 21.7	17.7
43373 2000 WC_{17}	15.0	X	224.38800	53.94770	254.31148	4.11768	0.1086650	0.25437940	2.4668804	21	1 31.2	18.7
43374 2000 WT_{33}	15.5	X	36.76494	292.23746	136.13866	5.96858	0.0748391	0.29174472	2.2514763	21	—	—
43375 2000 WE_{36}	15.2	X	56.64282	328.50630	101.30220	8.99953	0.1582025	0.29416375	2.2391161	21	—	—
43376 2000 WV_{36}	15.2	X	93.17791	350.77109	168.24285	5.17535	0.1349471	0.26021620	2.4298520	21	6 13.3	18.4
43377 2000 WF_{41}	15.3	X	176.24363	205.98412	224.37342	8.69041	0.1396969	0.26098504	2.4250776	21	5 19.6	18.9
43378 2000 WM_{43}	15.2	X	248.51999	5.45035	211.38991	5.84154	0.1393618	0.29126091	2.2539689	21	—	—
43379 2000 WN_{43}	15.3	X	207.46623	2.82652	154.76057	4.30676	0.1366650	0.27712367	2.3299878	21	10 16.6	18.5
43380 2000 WJ_{44}	15.8	X	198.09378	332.33858	159.67508	3.84481	0.0336770	0.27260734	2.3556514	21	9 8.7	18.8
43381 2000 WQ_{47}	15.9	X	231.04469	43.17103	151.68599	3.72053	0.1141598	0.28503446	2.2866751	21	—	—
43382 2000 WJ_{49}	13.3	X	218.37755	96.67240	119.65746	10.73761	0.2398973	0.18239501	3.0793620	21	12 14.9	18.3
43383 2000 WQ_{52}	15.5	X	308.80716	280.91722	242.58790	5.57079	0.1840726	0.24279892	2.5447096	21	—	—
43384 2000 WP_{54}	14.8	X	37.19693	109.32815	296.33932	6.39169	0.1195204	0.28587441	2.2821938	21	—	—
43385 2000 WQ_{54}	15.2	X	335.82337	331.02651	88.93061	7.36334	0.0850505	0.27894597	2.3198291	21	12 18.3	17.5
43386 2000 WJ_{57}	15.6	X	180.13149	305.55451	162.59630	2.46409	0.1710849	0.26657306	2.3910677	21	7 11.7	19.4
43387 2000 WF_{58}	15.4	X	305.55957	220.29816	245.62484	4.16565	0.1559751	0.28280985	2.2986510	21	—	—
43388 2000 WA_{61}	15.2	X	214.06222	87.03177	105.07878	7.26744	0.0486404	0.28167515	2.3048201	21	12 20.3	18.1
43389 2000 WP_{61}	15.3	X	334.25387	332.59934	92.90852	7.95831	0.1022082	0.28017076	2.3130633	21	12 25.4	17.4
43390 2000 WF_{62}	12.6	X	292.41636	152.40764	101.88567	20.32083	0.0818471	0.15858836	3.3802995	21	3 3.9	17.7
43391 2000 WT_{62}	14.1	X	108.74250	314.62606	117.91939	14.93105	0.1788734	0.25558277	2.4591310	21	3 19.6	17.5
43392 2000 WF_{86}	15.5	X	202.83260	24.32475	32.70254	2.06608	0.1358637	0.26366478	2.4086183	21	5 28.1	19.0
43393 2000 WL_{86}	15.6	X	129.02250	42.27009	296.08265	3.87897	0.0487590	0.29038063	2.2585218	21	—	—
43394 2000 WM_{87}	14.7	X	231.16779	29.11766	79.21897	12.08093	0.1436304	0.22282476	2.6945966	21	9 7.7	18.9
43395 2000 WE_{88}	14.6	X	316.59230	319.63299	89.96822	16.17830	0.1156139	0.22715504	2.6602419	21	10 27.3	17.9
43396 2000 WN_{89}	16.0	X	218.55701	92.30651	38.35141	0.56729	0.1159425	0.27511970	2.3412885	21	9 24.0	19.0
43397 2000 WQ_{91}	15.6	X	49.64233	321.19469	204.01070	0.33693	0.1616696	0.25591286	2.4570160	21	4 14.9	17.9
43398 2000 WS_{93}	14.9	X	77.25758	50.43523	60.90478	8.18208	0.1581367	0.25333491	2.4736563	21	3 21.9	17.7
43399 2000 WO_{95}	14.9	X	4.80303	203.12601	278.42622	4.13307	0.2014919	0.24412544	2.5354829	21	—	—
43400 2000 WE_{97}	15.5	X	314.59100	8.19918	84.79044	4.95142	0.0620616	0.28271980	2.2991390	21	12 30.6	18.0
43401 2000 WE_{116}	15.5	X	108.71451	105.41309	25.78769	2.70879	0.0778557	0.25971099	2.4330022	21	5 16.4	18.4
43402 2000 WO_{117}	15.3	X	160.29039	189.89625	292.31675	5.66366	0.0634968	0.26476485	2.4019419	21	7 7.8	18.4
43403 2000 WY_{122}	15.1	X	170.73018	358.98142	72.44553	9.11818	0.2017937	0.26094478	2.4253270	21	5 18.4	19.0
43404 2000 WT_{126}	15.4	X	36.60428	267.72515	246.89272	6.21343	0.1266996	0.25279168	2.4771988	21	2 26.0	17.9
43405 2000 WX_{129}	15.3	X	46.98183	202.23066	31.80962	12.95383	0.0628045	0.26379645	2.4078167	21	7 12.9	18.4
43406 2000 WR_{135}	14.0	X	47.95547	45.51812	49.64546	12.81123	0.1353742	0.24545028	2.5263510	21	—	—
43407 2000 WX_{135}	15.3	X	187.61348	21.46644	153.91503	6.06652	0.1043771	0.27898064	2.3196369	21	10 21.9	18.6
43408 2000 WW_{137}	15.4	X	230.14855	98.62388	331.99571	2.41420	0.1268461	0.26685316	2.3893943	21	7 16.0	18.6
43409 2000 WY_{147}	15.0	X	349.45567	174.00217	92.45178	7.67486	0.0901458	0.26145318	2.4221820	21	5 22.5	17.6
43410 2000 WB_{148}	15.5	X	329.46402	79.83784	93.81062	2.71198	0.0747959	0.24514072	2.5284774	21	—	—
43411 2000 WN_{153}	14.6	X	80.26264	327.73221	84.49009	16.03944	0.0853319	0.24332606	2.5410329	21	—	—
43412 2000 WH_{158}	15.6	X	242.87964	27.58798	33.76010	7.24193	0.0899544	0.26783905	2.3835272	21	7 25.1	18.8
43413 2000 WJ_{158}	15.9	X	304.38214	340.19846	17.73934	6.13184	0.1468148	0.31710444	2.1297788	21	7 13.6	17.9
43414 2000 WS_{168}	15.4	X	75.83166	234.87109	155.74124	4.09047	0.1660656	0.28987670	2.2611386	21	—	—
43415 2000 WW_{168}	15.0	X	264.41687	269.44270	278.88264	4.93627	0.0729704	0.28341968	2.2953524	21	—	—
43416 2000 WA_{169}	14.2	X	263.56358	95.56472	129.62299	13.96092	0.1175677	0.23856590	2.5747228	21	—	—
43417 2000 WE_{169}	15.3	X	349.40922	146.91781	246.51280	6.03873	0.1777070	0.27820838	2.3239275	21	12 13.9	17.1
43418 2000 XP_{7}	15.0	X	208.11037	118.05711	325.76150	8.31471	0.0496112	0.26712436	2.3877767	21	7 15.6	18.2
43419 2000 XK_{11}	14.3	X	274.66900	60.26762	72.79860	22.69957	0.0789236	0.23063351	2.6334259	21	12 8.2	17.6
43420 2000 XR_{22}	15.2	X	260.90910	146.37811	12.24776	6.94057	0.0866497	0.23636379	2.5906899	21	12 22.9	18.5
43421 2000 XN_{27}	14.1	X	233.87224	260.25334	288.89323	22.64841	0.2521138	0.28074873	2.3098876	21	12 12.6	17.3
43422 2000 XA_{30}	15.7	X	292.41550	31.33090	40.46562	7.56966	0.0769431	0.27591667	2.3367779	21	10 22.9	18.3
43423 2000 XQ_{41}	14.3	X	198.07233	95.98328	0.73636	21.62806	0.0622143	0.22017883	2.7161412	21	7 26.5	18.7
43424 2000 YF_{5}	15.4	X	185.62592	109.65350	91.24925	23.44740	0.1749493	0.27637659	2.3341847	21	11 21.1	19.3
43425 2000 YC_{6}	15.7	X	247.45844	336.09692	218.57948	6.47264	0.0569712	0.28718646	2.2752375	21	—	—
43426 2000 YD_{6}	14.6	X	348.20738	140.28899	298.47171	7.16007	0.1180360	0.28580096	2.2825848	21	—	—
43427 2000 YS_{12}	13.8	X	137.62853	275.64523	273.01872	11.24325	0.2756259	0.21777539	2.7360888	21	9 9.9	18.9
43428 2000 YT_{17}	14.8	X	127.07308	41.17072	264.28453	3.91267	0.1351150	0.28580241	2.2825771	21	—	—
43429 2000 YU_{19}	14.2	X	208.13270	47.68317	120.70792	26.93347	0.2148238	0.22898816	2.6460255	21	10 29.2	19.1
43430 2000 YA_{23}	14.5	X	47.98553	122.80612	105.36661	14.88909	0.0835303	0.21391783	2.7688837	21	7 6.2	17.7
43431 2000 YZ_{32}	15.1	X	183.00810	48.63370	309.01783	7.39491	0.2002506	0.29953276	2.2122786	21	2 19.1	18.5
43432 2000 YL_{35}	15.4	X	9.02029	40.89094	74.89598	5.37033	0.0513934	0.29225810	2.2488389	21	—	—
43433 2000 YW_{35}	15.3	X	282.74393	320.16019	191.48714	2.81822	0.1274144	0.23563709	2.5960135	21	—	—
43434 2000 YX_{35}	15.1	X	184.17854	348.84103	115.65571	2.79345	0.1077704	0.26593496	2.3948910	21	7 11.7	18.6
43435 2000 YV_{36}	14.8	X	80.70868	184.01680	224.46745	2.32493	0.1632207	0.24594876	2.5229363	21	—	—
43436 2000 YD_{42}	12.1	X	127.74273	121.94635	124.91463	8.35820	0.0036281	0.08425184	5.1532725	21	10 20.5	19.0
43437 2000 YL_{47}	15.0	X	288.99029	47.39474	132.50524	5.99955	0.0754999	0.23908322	2.5710074	21	—	—
43438 2000 YP_{49}	14.8	X	307.05270	332.24870	105.79676	11.81965	0.0688089	0.23028996	2.6360443	21	11 18.8	18.1
43439 2000 YX_{54}	15.1	X	349.71084	4.82894	101.77316	3.07185	0.1109768	0.23855089	2.5748307	21	—	—
43440 2000 YT_{60}	15.6	X	25.72992	182.38109	120.35780	3.75799	0.0902604	0.26917990	2.3756053	21	9 22.4	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43441 2000 YS_{61}	15.0	X	202.11821	323.90522	124.55550	5.82858	0.1060953	0.21647130	2.7470665	21	7 9.5	19.2
43442 2000 YX_{62}	15.5	X	320.09623	79.38855	124.73354	5.04860	0.1842421	0.24370190	2.5384197	21	—	—
43443 2000 YY_{62}	15.4	X	105.99790	276.07438	114.46848	6.53267	0.0842674	0.29240953	2.2480624	21	—	—
43444 2000 YC_{72}	15.5	X	199.89504	47.27760	227.11946	5.11092	0.0884199	0.29200839	2.2501208	21	—	—
43445 2000 YM_{74}	15.4	X	85.63432	140.99232	82.65315	8.56187	0.0658265	0.26909415	2.3761100	21	8 27.1	18.5
43446 2000 YB_{75}	15.2	X	225.47677	218.25638	256.49403	6.02705	0.0560304	0.27347362	2.3506741	21	9 14.5	18.3
43447 2000 YF_{76}	15.1	X	258.31263	280.20812	234.92579	4.91158	0.0631285	0.28237240	2.3010244	21	12 29.0	17.7
43448 2000 YM_{79}	15.5	X	168.97012	187.37719	293.49552	1.47128	0.1313091	0.26552393	2.3973619	21	7 17.6	19.0
43449 2000 YC_{83}	15.6	X	94.57717	110.62872	109.27895	2.66414	0.1494991	0.26810181	2.3819696	21	9 11.0	18.9
43450 2000 YX_{91}	15.7	X	38.05758	195.51080	70.79370	1.81428	0.0686020	0.26594960	2.3948032	21	8 15.0	18.2
43451 2000 YH_{96}	16.1	X	337.14089	126.49233	260.93114	3.77572	0.0605458	0.27471744	2.3435734	21	10 30.9	18.7
43452 2000 YE_{99}	15.4	X	217.18561	333.09253	269.34091	3.72060	0.0723240	0.23706427	2.5855840	21	—	—
43453 2000 YT_{100}	14.4	X	166.12239	328.78826	197.81333	17.06516	0.1129006	0.17111055	3.2133019	21	9 3.7	19.6
43454 2000 YD_{102}	15.3	X	9.10466	130.42355	225.11385	6.44214	0.1354792	0.27562052	2.3384514	21	11 17.1	17.6
43455 2000 YG_{103}	15.2	X	296.98714	191.80927	223.44009	6.29919	0.0963491	0.27240895	2.3567950	21	9 30.1	17.8
43456 2000 YG_{117}	15.2	X	9.14231	303.97333	96.86471	6.93642	0.1664377	0.28049067	2.3113042	21	—	—
43457 2000 YF_{118}	15.2	X	52.22640	234.37669	108.86412	7.72096	0.1505277	0.27776023	2.3264265	21	—	—
43458 2000 YF_{119}	15.5	X	354.66758	85.92403	329.29124	3.83783	0.0637298	0.28356375	2.2945749	21	—	—
43459 2000 YB_{122}	15.0	X	64.95649	295.54811	21.88704	2.21218	0.0236759	0.18462121	3.0545576	21	11 11.1	19.4
43460 2000 YM_{123}	13.2	X	124.12561	162.96858	107.91643	10.52495	0.0605819	0.17523088	3.1627313	21	11 28.0	18.0
43461 2000 YL_{128}	14.7	X	131.31255	359.97994	84.02197	7.06139	0.0223295	0.20526291	2.8461802	21	4 13.4	18.7
43462 2001 AV	15.4	X	62.07063	223.27573	322.52513	7.63726	0.1313136	0.25525917	2.4612089	21	6 2.8	18.3
43463 2001 AN_{5}	15.4	X	194.01223	303.06512	278.58253	6.01371	0.0719194	0.27910338	2.3189568	21	12 30.1	18.5
43464 2001 AA_{9}	15.3	X	78.34438	89.90297	249.53390	5.83090	0.1416237	0.28305939	2.2972998	21	—	—
43465 2001 AV_{10}	15.3	X	265.71870	330.97503	179.45983	3.33093	0.0397266	0.23230437	2.6207834	21	12 24.2	18.6
43466 2001 AV_{14}	15.1	X	336.82395	261.34658	180.51876	3.50556	0.1691462	0.23410764	2.6073079	21	—	—
43467 2001 AD_{15}	15.5	X	129.05068	223.59971	160.45384	4.19246	0.1658693	0.29530618	2.2333375	21	1 23.8	18.2
43468 2001 AU_{28}	15.1	X	267.65003	321.95158	49.29186	7.17045	0.1027402	0.26784138	2.3835134	21	6 11.9	18.2
43469 2001 AP_{29}	13.5	X	66.32138	255.48612	70.85445	13.74605	0.2145458	0.23508871	2.6000490	21	12 26.3	17.5
43470 2001 AN_{31}	15.5	X	77.33577	153.86966	72.03829	7.47543	0.0523520	0.26673393	2.3901062	21	8 15.4	18.5
43471 2001 AH_{32}	14.9	X	83.46223	244.07417	313.68078	7.97589	0.0937051	0.21460322	2.7629852	21	7 18.1	18.6
43472 2001 AH_{33}	13.7	X	152.44359	238.14943	321.58170	7.74208	0.2108729	0.17512265	3.1640342	21	10 2.2	19.3
43473 2001 AY_{33}	15.5	X	43.96289	232.03033	69.30356	7.40963	0.1158098	0.27185553	2.3599924	21	10 24.2	18.3
43474 2001 AE_{40}	15.8	X	165.06218	239.78714	77.57891	6.36835	0.1522696	0.29024079	2.2592472	21	—	—
43475 2001 AY_{40}	15.1	X	158.41612	239.49053	236.59674	6.01667	0.1778525	0.21393913	2.7687000	21	7 1.6	19.7
43476 2001 AD_{42}	15.9	X	277.95831	175.49079	108.76058	8.36227	0.1689347	0.29794520	2.2201303	21	2 17.1	19.0
43477 2001 BX_{7}	14.9	X	113.56899	216.07405	101.96664	15.97875	0.1312853	0.23495050	2.6010686	21	—	—
43478 2001 BH_{9}	14.9	X	143.30509	86.17412	70.19713	2.28850	0.1239973	0.26242313	2.4162098	21	8 7.5	18.4
43479 2001 BG_{15}	15.7	X	34.38983	249.12497	138.86091	7.80029	0.1924220	0.28160918	2.3051800	21	—	—
43480 2001 BO_{15}	14.4	X	152.48468	42.42544	136.90128	1.95269	0.1079718	0.16941837	3.2346631	21	9 9.3	19.4
43481 2001 BC_{17}	14.4	X	26.00016	222.84518	82.45967	8.61387	0.2124255	0.21699672	2.7426303	21	10 10.7	17.6
43482 2001 BW_{32}	15.1	X	333.91955	244.28884	157.27569	5.51926	0.2363890	0.27603244	2.3361244	21	11 28.5	16.5
43483 2001 BO_{38}	14.5	X	149.17164	190.08701	136.32937	11.26271	0.1230076	0.19054294	2.9909385	21	—	—
43484 2001 BF_{43}	15.1	X	168.92164	241.34720	270.53639	9.35864	0.0999846	0.26495991	2.4007629	21	8 23.2	18.9
43485 2001 BN_{43}	14.5	X	170.16975	74.78641	154.83377	21.76218	0.2215320	0.17692846	3.1424684	21	11 26.2	20.3
43486 2001 BW_{56}	15.6	X	21.03079	340.77855	331.19459	1.67347	0.0712846	0.21981478	2.7191393	21	9 17.3	18.9
43487 2001 BJ_{60}	14.5	X	316.92494	4.32274	93.50059	6.43596	0.1442691	0.23165883	2.6256498	21	12 25.9	17.0
43488 2001 BC_{62}	13.4	X	103.96795	8.85407	256.21965	19.25762	0.1619469	0.17316341	3.1878555	21	11 4.3	18.6
43489 2001 BB_{75}	13.9	X	349.74583	262.99676	137.03371	16.52867	0.1005453	0.17661243	3.1462160	21	11 24.5	18.2
43490 2001 CL	13.6	X	302.98687	116.10953	358.35161	9.27499	0.0184145	0.18120460	3.0928338	21	12 18.4	18.0
43491 2001 CP	14.2	X	219.86654	336.20147	257.26716	14.46671	0.0698752	0.23835542	2.5762383	21	—	—
43492 2001 CV	15.6	X	146.57560	163.42275	123.80264	7.83276	0.1107572	0.28021809	2.3128028	21	—	—
43493 2001 CV_{1}	14.9	X	266.41170	274.02141	109.76539	6.16668	0.0556644	0.21330667	2.7741701	21	7 6.2	18.5
43494 2001 CJ_{4}	14.8	X	289.80872	138.18537	103.06183	6.42888	0.2594245	0.24080410	2.5587437	21	1 4.4	19.0
43495 2001 CJ_{7}	15.4	X	339.82129	275.10404	97.68986	3.38167	0.2246421	0.27207982	2.3586952	21	10 23.4	16.7
43496 2001 CF_{16}	15.9	X	105.23872	248.84941	107.22098	7.21043	0.1387731	0.28619257	2.2805021	21	—	—
43497 2001 CY_{17}	13.6	X	61.02433	149.11431	133.79315	18.74997	0.1322624	0.17365032	3.1818937	21	10 16.1	18.4
43498 2001 CT_{19}	13.5	X	310.35944	24.90582	41.87094	13.79907	0.1549461	0.17511359	3.1641433	21	10 20.6	17.3
43499 2001 CY_{19}	15.7	X	286.82012	350.09392	22.95968	2.16613	0.1980473	0.26540493	2.3980785	21	6 26.6	18.5
43500 2001 CP_{22}	14.9	X	210.77554	121.25798	86.72397	2.89522	0.1039642	0.18207970	3.0829161	21	12 10.2	19.6
43501 2001 CW_{22}	15.3	X	359.29739	149.37525	96.53326	3.67381	0.1463094	0.25446899	2.4663013	21	5 5.8	17.7
43502 2001 CY_{28}	15.4	X	23.08356	331.88448	51.62525	6.25119	0.1792823	0.27952913	2.3166015	21	—	—
43503 2001 CK_{29}	12.9	X	30.73899	105.40356	124.24666	19.59842	0.1172941	0.15949186	3.3675214	21	6 18.2	17.3
43504 2001 CF_{33}	14.9	X	322.29478	15.17284	74.87162	15.29439	0.0675606	0.23107724	2.6300536	21	12 23.7	18.0
43505 2001 CK_{33}	14.3	X	160.48380	52.70324	29.50125	12.25362	0.2470407	0.21064832	2.7974610	21	5 23.5	19.3
43506 2001 CE_{36}	13.6	X	191.50819	174.70414	92.51472	9.30271	0.1506729	0.18369324	3.0648361	21	—	—
43507 2001 CN_{39}	15.3	X	286.48286	306.87002	74.59075	7.35238	0.1257548	0.26820171	2.3813781	21	7 22.2	18.1
43508 2001 CV_{40}	14.4	X	124.49732	166.58461	90.15605	17.34266	0.0444958	0.17606389	3.1527475	21	11 14.1	19.2
43509 2001 CY_{44}	14.8	X	84.69732	324.78716	81.76768	14.47479	0.1505205	0.24080486	2.5587384	21	—	—
43510 2001 CG_{46}	14.0	X	348.84720	351.55166	110.56781	15.65424	0.1690390	0.23478018	2.6023264	21	—	—
43511 Cima Ekar	15.0	X	214.30190	349.05294	160.66040	1.63367	0.0951120	0.17665284	3.1457362	21	10 6.4	19.6
43512 2001 CL_{49}	14.9	X	138.65536	183.90446	97.79165	15.25387	0.1123311	0.22976565	2.6400530	21	—	—
43513 2001 DG_{4}	15.3	X	351.29916	311.41121	75.36443	7.20992	0.1105480	0.27692671	2.3310924	21	11 28.9	17.6
43514 2001 DO_{5}	14.2	X	347.03701	345.93504	19.87065	9.77124	0.0219598	0.17260167	3.1947685	21	10 2.7	18.7
43515 2001 DS_{11}	14.6	X	119.48039	252.79085	130.72253	11.46483	0.1057696	0.19287585	2.9667718	21	1 23.6	18.8
43516 2001 DH_{12}	14.4	X	104.43541	14.11949	4.55535	5.46130	0.0979422	0.18934004	3.0035929	21	—	—
43517 2001 DO_{13}	13.7	X	299.85753	271.52696	133.44376	10.96143	0.0472357	0.16867721	3.2441314	21	9 19.1	18.2
43518 2001 DQ_{15}	14.9	X	167.73134	95.09910	98.89293	7.97415	0.0880417	0.17310938	3.1885188	21	10 15.3	19.9
43519 2001 DP_{16}	14.2	X	248.17722	156.47930	20.31460	9.49994	0.0207228	0.18140894	3.0905107	21	12 26.2	18.7
43520 2001 DM_{17}	14.5	X	173.38575	192.48905	124.69457	11.99595	0.0417275	0.18932335	3.0037694	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43521 2001 DU_{19}	14.4	X	311.04686	14.62422	103.88993	10.46142	0.0931302	0.18225090	3.0809851	21	12 30.5	18.3
43522 2001 DX_{20}	14.2	X	195.48146	155.44146	145.79733	23.10191	0.0449333	0.18867167	3.0106822	21	1 5.3	19.0
43523 2001 DJ_{22}	13.5	X	27.62470	265.66898	62.52635	13.43899	0.0591310	0.17022479	3.2244391	21	10 16.5	18.0
43524 2001 DQ_{30}	15.1	X	331.57653	181.87648	128.19619	5.89469	0.0905494	0.25786636	2.4445913	21	6 24.8	17.9
43525 2001 DR_{32}	14.5	X	96.42688	207.62254	131.61176	11.95762	0.0619481	0.18307341	3.0717500	21	—	—
43526 2001 DD_{37}	15.2	X	90.52608	172.84903	152.38910	4.30592	0.0962706	0.23013228	2.6372483	21	—	—
43527 2001 DS_{51}	14.2	X	210.17595	120.13636	40.04748	11.38634	0.0722828	0.17541248	3.1605480	21	10 18.0	18.9
43528 2001 DZ_{59}	15.1	X	173.47341	90.03000	89.23314	1.71917	0.0107729	0.22259374	2.6964607	21	10 7.5	18.7
43529 2001 DF_{65}	15.2	X	346.94990	136.95376	145.97698	3.25055	0.0216387	0.20927068	2.8097248	21	6 16.7	18.8
43530 2001 DN_{69}	13.8	X	156.60502	98.85576	158.27072	6.97581	0.1154394	0.17740692	3.1368157	21	12 14.0	18.8
43531 2001 DC_{71}	14.2	X	200.17826	93.29548	168.05480	13.24366	0.1604720	0.23122071	2.6289655	21	—	—
43532 2001 DX_{72}	14.4	X	278.61027	140.37673	278.56974	1.58558	0.0270473	0.16928116	3.2364108	21	9 7.6	18.9
43533 2001 DE_{74}	14.6	X	228.69405	271.56586	44.75482	5.14773	0.1649938	0.28489274	2.2874334	21	2 12.9	18.2
43534 2001 DZ_{78}	13.7	X	99.99931	1.49323	131.52557	21.72170	0.1385000	0.20441672	2.8540293	21	5 27.1	18.2
43535 2001 DE_{97}	13.9	X	127.02216	317.65687	67.20476	3.39530	0.0789677	0.14604002	3.5712599	21	2 8.9	19.1
43536 2001 DS_{107}	14.6	X	149.60487	147.49716	162.51934	1.86005	0.0838421	0.18394710	3.0620158	21	—	—
43537 2001 EF_{2}	14.0	X	136.09355	200.66012	119.34146	18.35168	0.2017922	0.23180767	2.6245258	21	—	—
43538 2001 EJ_{6}	13.7	X	19.30425	204.82217	144.93292	12.41871	0.0335415	0.17159670	3.2072299	21	10 28.5	18.3
43539 2001 EF_{12}	14.3	X	175.43606	314.35753	21.46245	14.38392	0.0858730	0.23636163	2.5907056	21	1 22.6	18.4
43540 2001 EY_{13}	14.2	X	208.14850	225.25960	87.13412	11.54999	0.0908741	0.19194384	2.9763677	21	2 2.1	18.9
43541 2001 EC_{23}	15.2	X	209.68464	32.93306	295.65400	0.34887	0.1498661	0.24196914	2.5505239	21	2 13.9	19.3
43542 2001 EC_{27}	14.8	X	347.34424	179.92565	168.00350	6.30308	0.2148284	0.21737343	2.7394607	21	9 16.3	17.0
43543 2001 FB_{3}	13.8	X	116.34929	96.58911	179.57015	9.04988	0.0847318	0.17485041	3.1673176	21	11 26.9	18.7
43544 2001 FM_{3}	14.3	X	259.99093	16.01308	161.37155	5.67323	0.1047688	0.17994068	3.1072998	21	12 29.3	18.6
43545 2001 FL_{5}	14.5	X	209.26804	2.42463	232.69852	3.45165	0.0244712	0.18315655	3.0708204	21	—	—
43546 2001 FJ_{8}	13.6	X	198.50959	179.92230	20.33899	22.76794	0.0952350	0.17230757	3.1984027	21	11 11.2	18.8
43547 2001 FU_{10}	13.7	X	49.98340	161.05971	183.03258	22.78265	0.0912313	0.17382178	3.1798009	21	12 4.5	18.5
43548 2001 FP_{11}	15.3	X	109.52016	185.10947	119.70675	3.02125	0.1326516	0.22312694	2.6921632	21	—	—
43549 2001 FN_{16}	14.7	X	23.10864	82.33110	144.44006	2.55828	0.0077332	0.20260247	2.8710421	21	5 23.1	18.6
43550 2001 FS_{24}	13.9	X	316.17081	256.54743	205.11456	15.86497	0.0145430	0.17839653	3.1252045	21	12 18.6	18.5
43551 2001 FY_{28}	13.5	X	102.22896	237.20071	33.13561	11.21977	0.0647257	0.17013830	3.2255317	21	10 31.8	18.3
43552 2001 FT_{34}	14.7	X	346.88740	153.06615	169.36787	21.75421	0.2226179	0.21106259	2.7937993	21	8 1.2	17.6
43553 2001 FT_{39}	14.3	X	6.23721	191.07453	185.57230	12.67531	0.2044211	0.22296030	2.6935044	21	12 9.7	17.4
43554 2001 FW_{44}	14.2	X	349.27014	86.14789	17.42208	9.10839	0.0811741	0.18253854	3.0777476	21	—	—
43555 2001 FJ_{60}	14.2	X	221.40159	161.61939	148.56617	10.95648	0.0922590	0.19227242	2.9729759	21	2 9.9	18.8
43556 2001 FK_{60}	13.9	X	152.25008	181.71993	144.00441	8.64725	0.0649841	0.18570585	3.0426523	21	—	—
43557 2001 FA_{61}	15.6	X	142.93434	125.64339	121.74550	3.06359	0.1693380	0.26928250	2.3750019	21	12 2.6	19.3
43558 2001 FW_{62}	14.1	X	56.50328	241.61423	141.89372	10.72455	0.1075461	0.18189882	3.0849594	21	—	—
43559 2001 FU_{64}	14.4	X	196.14690	184.31219	154.32620	9.29074	0.1254590	0.19216968	2.9740355	21	2 19.4	19.1
43560 2001 FX_{64}	14.0	X	341.33923	164.23921	161.54436	13.75838	0.2281689	0.25717196	2.4489898	21	7 26.3	15.9
43561 2001 FD_{80}	13.7	X	221.80100	18.13668	246.35503	9.29132	0.0548743	0.18384429	3.0631572	21	—	—
43562 2001 FE_{97}	13.9	X	279.68479	120.86126	55.00451	13.16981	0.0978898	0.18203830	3.0833834	21	—	—
43563 2001 FB_{102}	13.9	X	31.99605	11.91707	265.55094	8.02183	0.1380773	0.21026261	2.8008811	21	8 21.8	17.4
43564 2001 FG_{108}	13.8	X	206.88510	114.72900	170.51121	10.71043	0.1394286	0.18528472	3.0472609	21	—	—
43565 2001 FC_{110}	15.0	X	196.08689	199.22739	77.87395	3.16087	0.0965266	0.23020502	2.6366927	21	—	—
43566 2001 FQ_{116}	14.4	X	46.33528	214.51786	149.36789	12.56626	0.2061002	0.22550819	2.6731777	21	—	—
43567 2001 FL_{120}	13.9	X	141.27225	13.79789	281.09610	8.23921	0.0511136	0.18225300	3.0809614	21	—	—
43568 2001 FV_{134}	13.2	X	212.45400	10.10387	247.67288	12.23465	0.1270781	0.18456529	3.0551745	21	—	—
43569 2001 FY_{142}	14.2	X	26.12922	205.13519	123.20540	14.94028	0.1879106	0.21765554	2.7370930	21	11 9.2	17.8
43570 2001 FQ_{150}	14.2	X	111.82894	152.26207	207.97188	24.42302	0.2349661	0.27906414	2.3191742	21	—	—
43571 2001 FD_{165}	14.5	X	310.28880	311.40289	278.85545	16.47054	0.1411328	0.24341916	2.5403850	21	1 22.2	18.1
43572 2001 FH_{167}	15.6	X	77.80512	143.67742	145.72053	7.82638	0.2118843	0.26201196	2.4187369	21	11 28.5	19.4
43573 2001 FC_{169}	13.4	X	138.64957	205.19222	93.01496	12.20342	0.1153699	0.17476717	3.1683233	21	—	—
43574 2001 FU_{192}	14.7	X	125.16320	322.55266	44.56463	5.13181	0.2110698	0.23354385	2.6115023	21	1 18.0	18.3
43575 2001 GQ_{6}	14.2	X	142.28794	35.90191	29.89630	10.34950	0.0163760	0.19390092	2.9563066	21	4 3.1	18.4
43576 2001 HO_{28}	14.8	X	283.96884	33.65878	224.19001	2.21330	0.1739250	0.23651328	2.5895981	21	1 27.1	18.6
43577 2001 HH_{36}	14.5	X	236.68853	9.66541	254.09223	7.99556	0.1527300	0.23105294	2.6302380	21	—	—
43578 2001 KD_{15}	14.7	X	232.58250	259.98124	85.24633	9.31082	0.1892847	0.23961390	2.5672099	21	3 30.8	19.0
43579 2001 KW_{26}	16.2	X	143.28905	124.47642	200.94037	2.34775	0.2495331	0.27176769	2.3605009	21	—	—
43580 2001 KQ_{37}	14.7	X	208.87997	63.37951	194.76084	8.59050	0.0689726	0.22691557	2.6621132	21	—	—
43581 2001 KS_{52}	14.6	X	163.51167	56.03532	245.20238	8.29753	0.0609242	0.22807874	2.6530546	21	—	—
43582 2001 KO_{59}	13.9	X	80.68701	139.56007	245.05088	12.24992	0.1454598	0.21814628	2.7329866	21	—	—
43583 2001 KR_{59}	15.4	X	255.24386	75.60620	220.36894	7.32934	0.2597029	0.28140308	2.3063054	21	2 2.7	19.5
43584 2001 KW_{66}	14.8	X	283.01911	79.89701	191.54660	21.60542	0.2398101	0.28169478	2.3047130	21	1 26.5	18.9
43585 2001 LZ_{18}	14.4	X	94.35372	200.09377	179.74906	9.70069	0.1366544	0.21739657	2.7392663	21	—	—
43586 2001 OD_{26}	15.2	X	151.39496	120.95140	180.98405	6.23977	0.1308473	0.26728795	2.3868024	21	—	—
43587 2001 PA_{10}	15.7	X	316.43796	159.53183	107.36450	4.28319	0.1489342	0.28607991	2.2811008	21	3 17.2	18.3
43588 2001 PL_{14}	15.7	X	109.48132	35.25961	359.07500	2.27395	0.2071802	0.26911878	2.3759650	21	1 24.4	18.4
43589 2001 QW	15.5	X	6.34712	146.83114	270.31393	1.74869	0.1787805	0.25827879	2.4419881	21	—	—
43590 2001 QD_{2}	15.4	X	10.27865	232.43653	144.32545	3.16972	0.1753737	0.29885786	2.2156080	21	—	—
43591 2001 QX_{55}	15.3	X	9.05522	317.54052	109.82981	6.13103	0.2820792	0.25889258	2.4381270	21	—	—
43592 2001 QC_{72}	12.9	X	235.36877	241.68201	36.57409	5.62685	0.1685497	0.17203104	3.2018292	21	1 18.9	18.2
43593 2001 QR_{73}	15.6	X	216.39817	175.29395	210.83370	4.76182	0.1675725	0.27994146	2.3143262	21	4 29.7	19.1
43594 2001 QP_{101}	15.2	X	247.43456	149.41350	341.36205	4.46693	0.1035373	0.29990808	2.2104325	21	11 4.2	17.6
43595 2001 QT_{101}	13.5	X	276.10239	311.12919	11.05754	14.09234	0.1715764	0.23217830	2.6217320	21	4 8.9	17.3
43596 2001 QK_{126}	14.5	X	244.57535	134.46802	183.46492	10.39816	0.0881801	0.18297858	3.0728112	21	3 15.8	19.2
43597 Changshaopo	15.9	X	285.21150	81.02266	346.89491	7.21893	0.1019442	0.29352499	2.2423634	21	10 1.5	18.3
43598 2001 QY_{195}	14.5	X	223.31144	119.61922	271.48382	12.39779	0.1739751	0.23291159	2.6162263	21	5 12.9	18.9
43599 2001 QS_{256}	14.3	X	9.56811	56.48376	125.38009	4.56640	0.1302350	0.22559177	2.6725174	21	2 25.9	17.0
43600 2001 RG_{22}	15.8	X	44.11671	327.53188	161.54416	6.82442	0.1868201	0.27333840	2.3514493	21	1 30.8	17.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43601 2001 SU_{148}	14.1	X	298.89799	329.27234	240.36479	5.37073	0.2337899	0.22082180	2.7108662	21	—	—
43602 2001 SA_{316}	13.7	X	262.98811	76.17961	326.07652	12.44722	0.2077557	0.18561414	3.0436544	21	7 7.0	18.4
43603 2001 UQ_{13}	14.6	X	294.54594	276.27707	55.47944	3.68630	0.0716547	0.23104662	2.6302860	21	5 31.7	18.0
43604 2001 VN_{12}	14.1	X	290.40615	96.83586	282.58815	13.16175	0.1614076	0.23706456	2.5855819	21	7 16.2	17.2
43605 Gakuho	14.7	X	281.14876	43.43057	73.45287	13.23263	0.1388707	0.24289742	2.5440215	21	11 23.1	17.4
43606 2001 XQ_{2}	15.6	X	352.56114	242.74346	310.79183	17.86968	0.0651046	0.36586570	1.9360724	21	1 19.7	17.2
43607 2001 XO_{48}	13.6	X	330.99370	16.01162	271.24318	12.05987	0.1602730	0.23402007	2.6079583	21	5 9.9	16.6
43608 2001 XM_{60}	14.9	X	346.58568	284.80398	94.68606	6.65039	0.1795933	0.29341388	2.2429295	21	11 22.6	16.5
43609 2001 XA_{69}	15.4	X	43.79151	100.59474	86.97047	7.13205	0.0776246	0.27589680	2.3368900	21	4 29.7	17.8
43610 2001 XT_{186}	14.8	X	86.19679	43.33474	208.37828	1.29102	0.1477785	0.18382943	3.0633222	21	10 3.3	19.1
43611 2002 AV_{128}	14.4	X	174.42034	184.94718	45.53040	10.18156	0.1607389	0.18311468	3.0712885	21	11 27.4	19.5
43612 2002 AQ_{160}	14.4	X	161.16070	12.97018	158.42761	5.39948	0.1248157	0.17879186	3.1205960	21	9 8.9	19.3
43613 2002 AH_{177}	14.0	X	14.69566	196.94564	124.82975	11.92570	0.0839869	0.18075917	3.0979126	21	9 22.5	18.1
43614 2002 AT_{187}	15.0	X	129.89440	111.67319	134.62770	14.84705	0.0375425	0.23264127	2.6182526	21	11 15.1	19.0
43615 2002 AQ_{193}	14.7	X	134.55479	71.75858	219.61484	9.44343	0.0401980	0.19176891	2.9781776	21	—	—
43616 2002 CH_{30}	15.3	X	33.40486	136.11538	26.60317	4.44270	0.1420401	0.21114356	2.7930851	21	3 18.5	18.2
43617 2002 CL_{43}	13.6	X	141.29671	87.44055	115.37803	23.59413	0.0232400	0.17728772	3.1382217	21	10 1.9	18.5
43618 2002 CZ_{55}	14.4	X	178.52557	116.20061	83.35491	0.04860	0.0998990	0.18335550	3.0685987	21	10 29.5	19.2
43619 2002 CR_{66}	15.7	X	138.57628	12.94696	319.15755	4.48829	0.2132279	0.30367269	2.1921262	21	—	—
43620 2002 CG_{79}	15.1	X	159.24769	293.74266	0.42854	3.89820	0.2359561	0.24429293	2.5343239	21	—	—
43621 2002 CK_{117}	14.2	X	299.95512	222.92944	69.26321	15.09607	0.0615806	0.21141471	2.7906964	21	4 24.8	18.1
43622 2002 CW_{128}	14.6	X	297.71715	201.71684	165.65380	9.07597	0.0712561	0.17576200	3.1563566	21	7 22.8	19.0
43623 2002 CM_{138}	16.5	X	28.12877	23.77264	192.88577	4.17248	0.1056177	0.26758643	2.3850271	21	5 16.7	18.7
43624 2002 CY_{146}	15.8	X	13.24138	298.79472	203.83653	3.95131	0.1459337	0.25376152	2.4708832	21	—	—
43625 2002 CE_{168}	14.2	X	74.34288	269.50595	3.10131	9.42346	0.2070237	0.17725026	3.1386638	21	10 20.3	19.0
43626 2002 CV_{168}	15.3	X	227.79424	332.89816	14.00138	6.02524	0.0121292	0.21195380	2.7859624	21	4 4.5	19.2
43627 2002 CL_{224}	12.9	X	323.31681	97.69670	328.25304	1.29873	0.1142759	0.08550433	5.1028245	21	10 25.1	19.1
43628 2002 CA_{234}	13.7	X	148.23229	254.06252	298.78907	8.32526	0.1747315	0.17646661	3.1479490	21	9 19.3	19.1
43629 2002 CG_{234}	15.4	X	124.98941	278.95855	26.49900	7.37651	0.1359789	0.28498168	2.2869575	21	—	—
43630 2002 CZ_{235}	15.1	X	51.03424	221.48908	53.73837	4.01595	0.1235297	0.22681860	2.6628719	21	9 22.8	18.5
43631 2002 CS_{236}	14.2	X	215.98614	75.85234	147.13351	10.44476	0.0606590	0.18752711	3.0229201	21	—	—
43632 2002 CQ_{244}	15.7	X	98.88575	278.65267	339.41591	4.31382	0.1306108	0.27860423	2.3217257	21	11 1.3	19.2
43633 2002 CX_{247}	15.4	X	65.06486	106.48585	121.89487	2.97719	0.1685853	0.26960300	2.3731193	21	8 18.1	18.1
43634 2002 EA_{10}	15.5	X	330.12240	63.93075	224.53196	21.16289	0.0513771	0.37095434	1.9183260	21	5 17.1	16.9
43635 2002 EP_{19}	15.5	X	54.57843	14.84591	278.78896	5.49318	0.1050148	0.27662181	2.3328050	21	10 22.0	18.5
43636 2002 EC_{22}	15.9	X	89.74608	267.95648	40.58137	4.53843	0.1772146	0.28536006	2.2849354	21	—	—
43637 2002 EW_{28}	14.1	X	124.48612	19.61992	189.42318	10.53054	0.1593239	0.17551367	3.1593331	21	9 19.9	19.2
43638 2002 EU_{30}	15.4	X	75.80678	290.46127	18.13055	11.92098	0.0799040	0.23160377	2.6260660	21	11 26.2	19.2
43639 2002 EZ_{30}	14.3	X	108.72273	65.22383	169.12614	9.12708	0.1328336	0.17446889	3.1719333	21	10 4.9	19.1
43640 2002 EF_{33}	13.9	X	106.60649	156.65447	124.40879	14.99974	0.1796598	0.18328391	3.0693976	21	12 2.9	19.1
43641 2002 EG_{40}	14.8	X	304.49901	191.65536	342.68795	4.35934	0.2003729	0.19589162	2.9362441	21	—	—
43642 2002 EA_{41}	14.4	X	47.76393	240.97687	15.60977	21.85645	0.0064671	0.16862258	3.2448321	21	8 12.8	19.3
43643 2002 EO_{51}	15.6	X	55.46532	309.74444	10.55275	2.34070	0.1309317	0.23283533	2.6167976	21	11 26.2	19.1
43644 2002 EU_{65}	15.8	X	275.98250	313.77547	232.67872	3.12942	0.0540641	0.24462051	2.5320608	21	—	—
43645 2002 EM_{73}	14.5	X	334.40733	200.30669	196.03435	11.94322	0.2844926	0.23263461	2.6183026	21	11 6.2	16.1
43646 2002 ER_{73}	14.8	X	125.71654	258.24247	202.87005	7.73297	0.0240700	0.21026024	2.8009022	21	4 25.2	18.7
43647 2002 EU_{74}	14.2	X	172.37762	125.79506	2.12627	5.70032	0.0921187	0.16895296	3.2406007	21	7 29.6	19.2
43648 2002 EY_{76}	15.0	X	110.90968	109.42621	272.48001	0.86161	0.0775578	0.19989466	2.8969116	21	1 5.9	19.0
43649 2002 EE_{87}	15.4	X	119.45347	34.34076	184.73754	7.19996	0.0664602	0.27555064	2.3388468	21	9 30.1	18.5
43650 2002 EF_{87}	15.4	X	12.20493	248.99369	32.85742	7.57392	0.1103105	0.26738429	2.3862290	21	7 31.1	17.9
43651 2002 EU_{87}	14.8	X	183.42073	113.65597	151.12690	3.38335	0.1966689	0.18753597	3.0228249	21	—	—
43652 2002 EQ_{88}	14.8	X	49.33844	261.98593	180.69913	13.23017	0.1214616	0.19784757	2.9168598	21	—	—
43653 2002 EJ_{92}	15.2	X	355.93437	348.89320	232.65208	4.85880	0.1648804	0.25821028	2.4424201	21	3 15.4	17.7
43654 2002 EE_{98}	14.1	X	334.50187	139.79631	161.08897	12.88640	0.1164865	0.21401373	2.7680565	21	6 15.8	17.6
43655 2002 EC_{99}	15.4	X	117.56169	292.89758	293.63352	2.22425	0.0449781	0.22651641	2.6652397	21	9 29.3	19.2
43656 2002 ER_{104}	15.1	X	314.89811	258.83725	30.16614	9.39013	0.1201096	0.26162195	2.4211402	21	4 21.3	17.9
43657 Bobmiller	14.6	X	168.42003	104.56152	95.88875	6.27687	0.1002407	0.18009336	3.1055432	21	10 23.1	19.5
43658 2002 FV	15.6	X	2.77529	306.81045	4.24976	4.85420	0.1742415	0.27102851	2.3647908	21	8 31.9	17.4
43659 2002 FJ_{1}	14.6	X	174.48827	26.08021	103.32584	24.54574	0.2579899	0.27169755	2.3609071	21	8 4.7	18.9
43660 2002 FQ_{2}	15.9	X	346.04615	211.59465	27.60969	2.69119	0.1530918	0.25873962	2.4390878	21	3 27.8	18.1
43661 2002 FY_{2}	15.5	X	190.18607	266.44683	4.29364	8.97091	0.1017668	0.24151310	2.5537336	21	—	—
43662 2002 FP_{8}	15.5	X	3.40815	35.58293	214.11615	5.91942	0.1439001	0.26418098	2.4054796	21	5 19.0	17.5
43663 2002 FS_{10}	15.3	X	177.91639	172.04024	130.85177	5.16104	0.1839643	0.29282703	2.2459251	21	—	—
43664 2002 FR_{13}	13.8	X	21.92520	260.36640	41.76719	22.32051	0.1548546	0.17229816	3.1985191	21	9 23.1	18.1
43665 2002 FM_{22}	14.4	X	118.85340	72.44093	99.77207	12.59119	0.0595937	0.21953185	2.7214751	21	7 24.3	18.3
43666 2002 FX_{33}	14.5	X	110.31643	183.50078	35.07654	11.30986	0.0351283	0.17149131	3.2085438	21	9 11.0	19.2
43667 Dumlupınar	15.1	X	341.74293	22.72746	194.87686	13.50357	0.1112416	0.25811711	2.4430078	21	2 19.4	18.1
43668 2002 GH_{7}	14.3	X	353.39854	110.52498	168.95466	9.41342	0.1283933	0.21324823	2.7746770	21	6 17.7	17.5
43669 Winterthur	15.1	X	173.88206	93.13345	144.06378	12.97120	0.1387926	0.23263089	2.6183305	21	12 15.0	19.4
43670 2002 GA_{13}	15.8	X	260.20861	250.94022	186.59941	2.48488	0.0598148	0.22524514	2.6752586	21	9 7.9	19.3
43671 2002 GN_{16}	16.6	X	299.89082	169.73339	98.47154	1.95362	0.1401158	0.30690138	2.1767246	21	2 21.3	19.3
43672 2002 GC_{17}	15.0	X	191.17668	217.95392	40.79828	10.38857	0.0645178	0.23897533	2.5717811	21	—	—
43673 2002 GO_{17}	15.9	X	78.53274	179.71663	129.11620	3.29140	0.1547878	0.27837279	2.3230124	21	12 18.9	19.3
43674 2002 GP_{19}	15.3	X	279.38978	167.04277	205.86537	3.43018	0.0986464	0.26778517	2.3838470	21	7 1.8	18.3
43675 2002 GM_{20}	16.4	X	25.05795	163.56405	9.29928	2.44605	0.1380094	0.25552360	2.4595106	21	3 6.2	18.8
43676 2002 GP_{22}	15.5	X	81.02661	32.53441	259.08794	4.18523	0.1147969	0.27799393	2.3251225	21	11 25.1	18.6
43677 2002 HN	15.2	X	122.64599	203.35724	42.54326	4.74808	0.1756957	0.27833111	2.3232443	21	11 13.3	18.7
43678 2002 HP	15.7	X	353.33627	177.63702	99.75977	4.49403	0.2125312	0.26209003	2.4182566	21	6 6.3	17.2
43679 2002 HJ_{4}	15.8	X	227.02873	37.76473	68.22750	7.01362	0.1995228	0.27659558	2.3329525	21	8 25.6	19.3
43680 2002 HE_{7}	15.8	X	148.89370	131.99100	120.37022	5.02052	0.2234783	0.22995180	2.6386280	21	12 8.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43681 2002 JG_2	15.3	X	62.07173	312.75601	32.92465	5.81383	0.2121070	0.28068292	2.3102486	21	—	—
43682 2002 JB_7	16.1	X	168.41841	328.04284	163.86816	5.44160	0.1639015	0.27092789	2.3653763	21	7 31.2	19.9
43683 2002 JF_{12}	14.8	X	247.23914	64.28673	286.07379	1.28311	0.2396147	0.20513740	2.8473411	21	4 12.6	19.6
43684 2002 JZ_{24}	14.9	X	339.98777	150.95016	194.43557	7.41242	0.3424932	0.21484412	2.7609194	21	8 10.3	16.6
43685 2002 JK_{26}	14.4	X	15.06878	81.97829	192.21797	13.26408	0.1644323	0.21345141	2.7729159	21	7 20.6	17.6
43686 2002 JS_{41}	14.8	X	140.52458	76.50765	229.73526	11.34815	0.0634673	0.24014868	2.5633973	21	—	—
43687 2002 JF_{59}	15.4	X	241.10930	113.20931	243.54396	3.90098	0.2119671	0.30525944	2.1845231	21	4 8.9	18.8
43688 2002 JN_{70}	15.7	X	90.47947	315.24392	235.27866	5.26812	0.0783686	0.26776797	2.3839491	21	7 13.9	18.8
43689 2002 JY_{71}	14.7	X	182.15174	2.51403	167.67587	9.49640	0.1365959	0.22544881	2.6736471	21	10 1.6	18.9
43690 2002 JQ_{72}	15.9	X	76.25408	167.39520	111.61881	7.39669	0.1726104	0.27261241	2.3556222	21	11 12.0	19.3
43691 2002 JA_{76}	15.7	X	202.08464	244.70480	229.45771	1.03608	0.0201858	0.22189171	2.7021451	21	8 17.3	19.3
43692 2160 *P–L*	15.5	X	62.36485	121.46143	221.74423	4.64943	0.1751556	0.27771869	2.3266585	21	—	—
43693 2731 *P–L*	14.4	X	45.99332	208.96357	183.25446	10.84677	0.1327290	0.18086797	3.0966701	21	—	—
43694 2846 *P–L*	15.7	X	210.69234	330.40646	171.54594	3.20644	0.0793304	0.27460087	2.3442366	21	10 4.4	18.6
43695 4079 *P–L*	16.1	X	20.30447	106.48169	347.57829	2.75369	0.0808488	0.31262706	2.1500654	21	—	—
43696 4159 *P–L*	15.3	X	59.77973	199.07653	344.83449	6.60884	0.0919531	0.28653630	2.2786780	21	5 17.2	17.7
43697 4620 *P–L*	16.0	X	270.45219	271.18177	20.45827	4.35740	0.1509541	0.30156673	2.2023200	21	2 19.7	19.1
43698 4878 *P–L*	15.7	X	316.94851	189.54447	164.02041	6.30531	0.0749251	0.22451471	2.6810579	21	8 3.2	19.1
43699 6586 *P–L*	14.9	X	129.93770	154.31035	171.93877	11.82955	0.1892273	0.23180035	2.6245810	21	—	—
43700 6820 *P–L*	15.7	X	328.98652	182.78078	158.40298	4.40665	0.1027405	0.22482509	2.6785897	21	8 3.1	18.8
43701 1115 *T–1*	15.3	X	21.64750	73.19400	207.11924	4.48207	0.0694868	0.22149422	2.7053769	21	8 3.9	18.7
43702 1142 *T–1*	15.5	X	11.74403	179.22823	260.62363	2.46749	0.0902729	0.28958441	2.2626598	21	—	—
43703 1276 *T–1*	15.8	X	196.16295	38.27540	220.86390	2.98014	0.1524673	0.28827276	2.2695181	21	—	—
43704 3225 *T–1*	14.8	X	278.82907	294.33143	283.08852	0.83329	0.1534107	0.19294960	2.9660158	21	—	—
43705 1131 *T–2*	15.9	X	87.38935	306.89877	310.79347	1.92594	0.1776179	0.26849054	2.3796699	21	10 23.8	19.2
43706 Iphiklos	12.3	X	18.33607	213.28767	185.89692	13.46140	0.0883407	0.08380109	5.1717351	21	12 9.4	19.0
43707 2050 *T–2*	15.6	X	307.28345	118.87859	176.39130	1.99590	0.2105776	0.26268081	2.4146294	21	4 4.3	18.7
43708 2126 *T–2*	15.7	X	79.03161	184.42587	202.59405	6.20774	0.0621523	0.29437932	2.2380228	21	—	—
43709 2284 *T–2*	15.9	X	306.92112	78.91180	186.19953	3.01386	0.1527218	0.30151484	2.2025727	21	2 23.4	18.7
43710 2907 *T–2*	15.5	X	108.64489	211.30422	194.16281	3.87860	0.1843115	0.29653707	2.2271530	21	1 26.3	17.7
43711 3005 *T–2*	15.7	X	9.95307	53.29795	66.23178	2.27458	0.0976634	0.29564831	2.2316142	21	—	—
43712 5054 *T–2*	14.8	X	341.00592	92.18400	267.82766	7.32940	0.0662086	0.24605292	2.5222243	21	9 19.7	17.9
43713 5104 *T–2*	14.8	X	65.55636	198.39788	252.42485	7.68180	0.0144479	0.19417278	2.9535465	21	1 24.2	19.0
43714 1048 *T–3*	15.2	X	290.48389	348.54401	310.24941	6.66571	0.1510278	0.28474492	2.2882250	21	3 20.9	18.3
43715 1084 *T–3*	14.0	X	170.63781	130.22489	248.14815	8.39776	0.0967058	0.19103937	2.9857548	21	3 9.1	18.7
43716 1096 *T–3*	14.5	X	172.80231	49.20983	227.65646	10.99517	0.1639746	0.23121345	2.6290206	21	—	—
43717 2023 *T–3*	16.4	X	37.68236	111.15525	213.71475	6.10671	0.2354247	0.27071290	2.3666285	21	12 3.1	19.3
43718 2208 *T–3*	14.5	X	157.81299	282.68238	8.75081	9.98294	0.0480275	0.18509487	3.0493443	21	—	—
43719 2666 *T–3*	15.9	X	260.89976	344.84236	351.73772	2.11843	0.0653013	0.28458243	2.2890959	21	4 19.1	18.7
43720 4301 *T–3*	15.7	X	190.18219	270.25870	153.39099	4.46535	0.0633704	0.21730190	2.7400619	21	5 27.4	19.7
43721 4433 *T–3*	14.2	X	185.82087	347.59609	156.34239	10.47295	0.1555723	0.17393033	3.1784777	21	8 28.6	19.3
43722 Carloseduardo	12.7	X	80.66511	107.15417	276.77854	14.74794	0.1764454	0.17407789	3.1766812	21	—	—
43723 1975 SZ_1	15.9	X	93.53472	248.67066	173.24013	2.94167	0.1718081	0.28761846	2.2729587	21	1 25.5	18.1
43724 Pechstein	14.7	X	283.93370	179.44162	178.89439	7.98970	0.2310916	0.25349201	2.4726342	21	5 29.3	18.1
43725 1978 RK_9	14.5	X	75.57437	122.23562	347.22892	4.80554	0.1601180	0.28835648	2.2690788	21	3 4.3	16.5
43726 1978 UJ_5	15.5	X	67.96112	103.88535	303.51932	1.68936	0.1241753	0.28253718	2.3001296	21	—	—
43727 1979 MQ_2	15.1	X	37.09532	75.65822	162.19248	5.05268	0.1600103	0.25808566	2.4432063	21	7 12.3	17.5
43728 1979 MA_3	15.3	X	233.31344	171.19219	268.64501	3.24587	0.0759877	0.28242265	2.3007514	21	8 6.8	18.2
43729 1979 MS_3	14.7	X	130.05012	21.29674	250.06564	3.70774	0.1334416	0.17152023	3.2081831	21	12 5.3	19.7
43730 1979 MK_4	15.9	X	77.43659	155.58863	135.89533	4.14448	0.1364788	0.28671043	2.2777552	21	11 25.9	19.0
43731 1979 ML_5	15.6	X	349.23641	211.08664	171.29079	5.17677	0.1309456	0.21518040	2.7580423	21	11 7.1	18.6
43732 1979 MO_7	14.2	X	16.78390	178.09735	230.86742	5.99680	0.1277876	0.17153074	3.2080521	21	—	—
43733 1979 MV_7	14.9	X	155.55523	42.70081	217.65409	4.39495	0.1314438	0.17255897	3.1952955	21	12 15.4	20.0
43734 1979 MY_7	15.1	X	72.80183	343.67918	284.28876	7.96361	0.1161275	0.21453840	2.7635417	21	10 3.1	19.1
43735 1981 DQ_1	14.0	X	307.63519	165.65195	291.47505	8.41398	0.1633399	0.21218048	2.7839778	21	11 29.4	17.1
43736 1981 DL_2	15.8	X	239.68657	293.72301	321.59289	8.32348	0.1176737	0.28929674	2.2641595	21	—	—
43737 1981 EU_3	15.3	X	46.57402	311.88596	228.20586	9.39462	0.1160126	0.24794842	2.5093534	21	4 26.8	17.8
43738 1981 ED_6	16.1	X	243.01829	65.23527	219.28012	11.59936	0.2949831	0.24177529	2.5518870	21	1 14.8	21.0
43739 1981 EP_7	15.1	X	230.94347	68.68537	249.93324	6.32546	0.1419434	0.26917051	2.3756606	21	2 15.2	18.8
43740 1981 EM_9	15.6	X	202.06590	11.69668	272.52389	4.72042	0.1683023	0.28858821	2.2678639	21	—	—
43741 1981 ES_{10}	15.6	X	93.59964	170.44810	274.12552	3.61484	0.1218083	0.27004587	2.3705240	21	2 22.6	18.3
43742 1981 EX_{12}	14.8	X	212.01682	55.89230	207.45118	11.41772	0.1093123	0.21491628	2.7603014	21	—	—
43743 1981 EK_{16}	15.8	X	21.78265	257.22697	339.88477	6.59311	0.0628258	0.27387444	2.3483801	21	5 31.8	18.4
43744 1981 EX_{17}	16.2	X	62.52653	217.10562	352.74725	2.63904	0.1414138	0.27500528	2.3419378	21	7 13.1	18.8
43745 1981 EN_{22}	15.4	X	39.66546	195.58793	340.97498	4.39706	0.0599075	0.24728053	2.5138697	21	4 4.5	18.4
43746 1981 EH_{31}	15.3	X	229.24313	251.56149	169.69502	8.62088	0.2066126	0.25364679	2.4716282	21	6 25.0	19.3
43747 1981 EX_{31}	13.8	X	345.59822	205.83247	176.55581	5.55263	0.1292291	0.20864261	2.8153607	21	10 30.1	16.9
43748 1981 ET_{37}	16.0	X	231.60713	60.92228	218.99790	3.59485	0.2440263	0.28963695	2.2623862	21	—	—
43749 1981 EG_{46}	15.8	X	302.16678	245.05118	341.43547	4.89788	0.1914824	0.24328912	2.5412902	21	1 5.7	19.6
43750 1981 QG_3	14.2	X	245.64282	114.20410	151.65970	16.98087	0.2823169	0.23693661	2.5865126	21	—	—
43751 Asam	14.8	X	199.85420	3.48006	4.70230	1.97476	0.2341020	0.24327465	2.5413910	21	3 25.9	19.3
43752 Maryosipova	15.2	X	73.82108	120.89449	286.68906	2.65659	0.1967900	0.26057020	2.4276508	21	—	—
43753 1982 VN_3	15.2	X	103.01434	328.47318	88.09731	3.71268	0.2327806	0.23727724	2.5840366	21	2 25.8	18.4
43754 1983 *AA*	14.2	X	5.11675	203.14348	295.44456	24.18730	0.2435745	0.28326871	2.2961679	21	—	—
43755 1983 RJ_1	14.7	X	342.02172	93.68867	226.44065	1.45046	0.2163705	0.25828187	2.4419688	21	7 20.7	16.4
43756 1984 *CE*	14.2	X	109.59451	294.39104	106.79188	13.35158	0.2438809	0.23987548	2.5653432	21	2 16.8	17.7
43757 1984 DB_1	13.5	X	327.86008	352.74459	168.47626	26.25412	0.2093512	0.18254962	3.0776230	21	—	—
43758 1985 QY_2	14.5	X	109.87777	156.39585	258.35895	6.35495	0.1553385	0.28844952	2.2685908	21	2 6.1	17.0
43759 1986 QW_2	15.4	X	274.54902	199.04881	134.82139	5.65893	0.1416603	0.30448481	2.1882266	21	4 24.2	18.3
43760 1986 QD_3	15.1	X	39.36132	291.92625	5.79670	6.76378	0.1329735	0.28348310	2.2950101	21	10 12.9	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43761 1986 QQ_3	14.4	X	112.08695	325.27057	45.77509	3.59040	0.1441035	0.23679469	2.5875460	21	—	—
43762 1986 WC_1	13.8	X	41.24937	345.96095	57.25015	2.58801	0.1609456	0.17320465	3.1873495	21	—	—
43763 Russert	15.1	X	65.17849	103.20225	166.94720	11.44878	0.2973901	0.26638483	2.3921939	21	11 3.2	18.8
43764 1988 BL_5	14.2	X	199.80631	145.57457	282.61013	11.82201	0.1203155	0.24621372	2.5211260	21	6 9.9	18.1
43765 1988 CF_4	13.9	X	213.72697	155.72322	225.17104	9.46719	0.1164126	0.18517055	3.0485134	21	4 27.8	18.6
43766 1988 CR_4	14.5	X	245.49983	4.02882	173.65495	13.19383	0.2069990	0.22824862	2.6517380	21	12 8.4	18.4
43767 Permeke	14.0	X	253.60445	183.82721	238.70151	7.21947	0.1526278	0.19167986	2.9790998	21	7 25.1	18.5
43768 Lynevans	13.5	X	199.71361	54.08321	304.48133	11.71039	0.1166200	0.18143251	3.0902431	21	3 13.9	18.6
43769 1988 EK	14.0	X	316.42153	330.16777	173.39699	15.33191	0.2757693	0.23187599	2.6240103	21	—	—
43770 1988 EX_1	14.0	X	4.84701	175.79529	34.54347	5.47374	0.0983817	0.17986475	3.1081742	21	4 7.5	17.7
43771 1988 TJ	14.9	X	71.72771	40.98472	354.26786	5.69276	0.1412931	0.27803732	2.3248806	21	—	—
43772 1988 TV_1	15.7	X	21.62375	168.12488	231.48826	2.43268	0.2408171	0.27385076	2.3485154	21	—	—
43773 1989 AJ	14.0	X	4.56771	159.34776	289.97481	6.21667	0.1979840	0.21197350	2.7857898	21	—	—
43774 1989 CO_2	13.3	X	320.89119	288.07430	268.91237	10.57409	0.0722062	0.18360037	3.0658696	21	1 17.7	17.5
43775 Tiepolo	13.5	X	224.15502	232.56476	321.28861	16.18769	0.1138058	0.17530908	3.1617906	21	12 3.9	18.5
43776 1989 GP_2	14.1	X	24.93791	9.86532	220.07431	9.62823	0.0613225	0.18725936	3.0258010	21	6 2.1	18.1
43777 1989 RK_1	14.1	X	147.45884	48.92638	334.59356	12.22968	0.1829687	0.23186302	2.6241081	21	2 25.9	17.9
43778 1989 SY_3	15.1	X	265.48082	200.72752	106.69877	3.36565	0.2019935	0.26708607	2.3880049	21	3 6.7	18.9
43779 1989 SQ_5	16.2	X	193.46658	190.18105	174.25950	5.57474	0.1874587	0.29529102	2.2334140	21	3 10.2	19.6
43780 1989 SL_8	15.4	X	91.44545	359.40830	5.10076	4.10186	0.1887233	0.28760981	2.2730043	21	—	—
43781 1989 TB_3	16.9	X	229.73546	176.71632	175.71753	5.79647	0.2239602	0.29799768	2.2198696	21	3 26.5	20.6
43782 1989 US_2	14.1	X	78.73418	161.17077	220.26192	11.30529	0.2832737	0.22381480	2.6866444	21	—	—
43783 Svyatitelpyotr	14.2	X	62.75851	156.96319	228.52742	13.92383	0.2889064	0.22311904	2.6922267	21	—	—
43784 1989 XR_1	14.7	X	10.51021	267.50773	112.71003	8.12885	0.2128366	0.21757031	2.7378079	21	12 21.0	17.8
43785 1989 YC_6	15.2	X	117.63532	223.65184	160.13248	5.65865	0.1703415	0.28617843	2.2805772	21	1 10.2	17.7
43786 1990 QA_8	15.8	X	214.84950	217.61957	148.29284	3.19923	0.2522056	0.24434230	2.5339825	21	4 4.4	20.3
43787 1990 QR_8	15.4	X	214.89169	218.96552	132.88045	4.79791	0.1792120	0.24360393	2.5391003	21	3 20.2	19.5
43788 1990 RB_3	14.8	X	113.11630	190.81244	179.85686	18.37722	0.2016832	0.23478926	2.6022593	21	1 3.4	18.6
43789 1990 SN_9	15.4	X	120.78267	45.49097	30.37407	5.40862	0.1153752	0.30471999	2.1871006	21	3 18.9	17.8
43790 Ferdinandbraun	15.5	X	14.56780	341.23736	17.70823	6.06810	0.1271711	0.28808838	2.2704863	21	12 1.2	18.0
43791 1990 UK_5	14.8	X	107.00348	302.70186	112.26850	6.02760	0.2323756	0.23545689	2.5973379	21	3 1.5	18.2
43792 1990 VY_1	14.2	X	33.20571	180.79911	209.59247	11.37074	0.2480541	0.22660725	2.6645274	21	—	—
43793 Mackey	14.7	X	226.41496	80.73645	270.83081	5.24157	0.2167758	0.24237590	2.5476695	21	3 24.3	19.2
43794 Yabetakemoto	14.4	X	242.77276	176.58142	302.71533	13.34059	0.2661653	0.21553862	2.7549855	21	9 7.2	18.9
43795 1991 AK_1	14.9	X	290.82441	192.69380	268.66759	3.40460	0.2817979	0.21974645	2.7197030	21	10 18.4	17.8
43796 1991 AS_1	13.8	X	121.84246	122.07413	317.66325	30.63249	0.2251660	0.23458911	2.6037392	21	3 26.1	18.4
43797 1991 AF_2	14.5	X	72.63062	246.90814	184.74762	12.22346	0.1621576	0.23219042	2.6216408	21	1 15.3	17.6
43798 1991 GW_8	16.5	X	157.94893	291.88733	307.24785	1.37541	0.2013993	0.27737141	2.3286001	21	12 5.2	20.2
43799 1991 PZ_{10}	14.9	X	32.10871	358.39528	321.75952	7.57944	0.2725025	0.26573114	2.3961155	21	11 21.7	18.0
43800 1991 PP_{13}	13.0	X	182.44761	46.24319	328.42901	10.78196	0.1151788	0.18486560	3.0518650	21	3 18.3	17.8
43801 1991 PL_{15}	14.3	X	164.58035	198.26771	127.96526	6.44155	0.1461487	0.17963457	3.1108288	21	1 10.2	19.2
43802 1991 PY_{18}	15.2	X	20.49229	27.00414	323.07016	3.57178	0.2089392	0.26713128	2.3877355	21	12 7.3	17.8
43803 1991 RH_2	13.6	X	198.82869	27.40121	354.63459	10.71433	0.0901998	0.18654037	3.0335709	21	4 12.1	18.4
43804 Peterting	13.5	X	62.74106	29.53488	352.06551	7.40801	0.1494642	0.17140997	3.2095587	21	—	—
43805 1991 RQ_5	14.2	X	358.50429	231.90182	24.71507	6.48343	0.1035960	0.25593476	2.4568758	21	5 20.5	16.7
43806 Augustepiccard	15.0	X	249.21455	149.53904	261.86675	3.74230	0.1805300	0.25646294	2.4535014	21	7 4.9	18.7
43807 1991 RC_{11}	13.1	X	131.58566	208.50707	202.37868	22.64813	0.1717922	0.18110893	3.0939228	21	3 17.9	18.0
43808 1991 RF_{11}	14.7	X	270.89892	75.00966	323.44514	4.60129	0.2179818	0.25844806	2.4409218	21	7 8.5	17.9
43809 1991 RE_{14}	14.2	X	51.12920	335.04783	343.32143	8.54419	0.1616790	0.26657935	2.3910301	21	11 27.1	17.5
43810 1991 RJ_{20}	15.5	X	343.50523	229.41891	131.70812	3.05449	0.2288550	0.26341912	2.4101155	21	10 10.7	17.0
43811 1991 RA_{24}	15.4	X	0.74292	13.47148	11.01775	2.26173	0.2222517	0.26683863	2.3894810	21	12 25.9	17.6
43812 1991 RJ_{29}	12.7	X	101.77483	97.65195	292.22996	12.54171	0.2075437	0.17590047	3.1546999	21	1 26.3	17.0
43813 Kühner	15.3	X	285.90800	165.04911	270.23212	2.75275	0.2160409	0.26173261	2.4204577	21	9 20.1	17.9
43814 1991 UE_1	15.3	X	307.80438	59.72631	353.77236	1.53455	0.2305610	0.26159392	2.4213131	21	9 30.2	17.2
43815 1991 VD_4	12.0	X	74.63097	160.11546	256.68529	24.17122	0.2623917	0.17502604	3.1651984	21	1 22.6	16.2
43816 1992 CN_2	15.2	X	17.00477	221.80101	277.29763	10.73404	0.1268988	0.23707836	2.5854815	21	1 6.2	17.8
43817 1992 EF_{22}	14.8	X	124.58339	35.82563	34.64081	4.52323	0.1316527	0.23974620	2.5662654	21	3 27.1	18.2
43818 1992 ET_{32}	13.9	X	242.19934	299.24527	245.72617	2.43444	0.1282263	0.12395352	3.9837933	21	12 4.3	19.6
43819 1992 LL	15.2	X	324.88396	154.94294	86.25081	6.33033	0.1127988	0.30146672	2.2028071	21	2 24.9	17.8
43820 1992 PP_1	15.1	X	103.28467	163.21223	289.38615	3.61005	0.1470159	0.29400364	2.2399290	21	3 20.5	17.6
43821 1992 RL_3	16.5	X	256.91089	140.72565	169.24735	5.08089	0.2006283	0.29581664	2.2307675	21	2 24.8	20.1
43822 1992 RP_5	16.1	X	216.89938	271.08299	78.93432	2.81966	0.2297599	0.29421188	2.2388719	21	3 14.3	19.8
43823 1992 SV_{24}	14.3	X	94.45744	163.10581	222.47731	7.09418	0.2595523	0.21557203	2.7547008	21	1 10.2	17.6
43824 1992 SY_{24}	13.3	X	190.64507	14.89901	350.30527	10.29526	0.1076742	0.18975185	2.9992456	21	3 16.9	18.1
43825 1992 UJ_5	15.3	X	160.62559	190.90958	234.33084	0.52683	0.1999083	0.29188267	2.2507669	21	4 28.5	18.6
43826 1992 UC_6	14.8	X	111.93836	144.52740	240.49322	7.00031	0.1118522	0.28383870	2.2930929	21	—	—
43827 1993 BV_5	14.9	X	299.87122	9.47820	327.88751	6.29657	0.0264861	0.25646470	2.4534902	21	6 23.2	18.0
43828 1993 FB_5	14.7	X	62.73920	158.02868	17.52826	5.46190	0.0936477	0.21464618	2.7626166	21	5 16.8	18.1
43829 1993 FB_{19}	15.3	X	269.10500	273.08268	144.29053	6.58799	0.0833848	0.25763046	2.4460833	21	8 22.9	18.4
43830 1993 FZ_{21}	14.7	X	2.30892	143.54066	1.13523	3.05179	0.0982287	0.24028574	2.5624224	21	—	—
43831 1993 FP_{29}	13.4	X	281.06198	5.04944	202.33304	13.15669	0.1132483	0.23794852	2.5791744	21	—	—
43832 1993 FA_{33}	15.5	X	307.89600	83.10348	149.01238	4.29720	0.1037674	0.24238793	2.5475852	21	1 30.0	18.8
43833 1993 FF_{34}	15.7	X	359.74975	339.72391	47.28219	5.32288	0.1585517	0.29830013	2.2183688	21	12 26.9	17.8
43834 1993 FC_{45}	15.1	X	240.57477	173.26269	164.89024	3.04303	0.0953332	0.24682726	2.5169464	21	3 30.2	18.6
43835 1993 FM_{45}	15.2	X	170.44624	356.05046	30.02071	2.82684	0.0540701	0.24534953	2.5270426	21	3 13.7	18.7
43836 1993 FX_{45}	15.3	X	267.66979	313.56974	184.60983	11.44217	0.0587707	0.23097697	2.6308147	21	12 9.3	18.9
43837 1993 FN_{49}	15.4	X	287.62365	235.26186	5.76524	0.95341	0.0633063	0.24178355	2.5518289	21	1 23.0	18.9
43838 1993 FW_{49}	15.2	X	149.58618	337.87074	335.45375	1.71585	0.0828464	0.23539471	2.5977952	21	—	—
43839 1993 FC_{60}	15.5	X	153.49432	119.70840	188.97871	12.38768	0.2785220	0.23295053	2.6159348	21	—	—
43840 1993 FE_{76}	15.2	X	246.55262	114.70670	206.26838	3.74790	0.3099094	0.24204353	2.5500013	21	2 28.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43841 Marcustacitus	15.4	X	265.05912	242.08735	199.78228	0.86967	0.1559683	0.26126885	2.4233211	21	9 8.7	18.4
43842 1993 MR	15.1	X	140.09265	77.04817	201.67632	6.07746	0.2595103	0.22606683	2.6687721	21	12 30.3	20.0
43843 Cleynaerts	14.6	X	91.01256	321.29491	283.68411	7.49499	0.2303265	0.21721267	2.7408122	21	10 8.7	19.1
43844 Rowling	15.3	X	15.83439	215.03640	144.62101	5.87368	0.1728690	0.21443975	2.7643892	21	11 26.7	18.5
43845 1993 OS_9	14.9	X	215.77978	102.28039	116.79482	8.29112	0.0728124	0.26123453	2.4235333	21	—	—
43846 1993 PV_8	14.6	X	28.46599	123.44405	165.78530	3.74087	0.0615365	0.21048093	2.7989440	21	8 26.6	18.0
43847 1993 QQ_5	14.8	X	35.55131	155.51604	191.96545	4.69134	0.1245729	0.21656065	2.7463108	21	12 2.3	18.3
43848 1993 QP_9	15.2	X	306.48638	255.38515	134.01165	5.21263	0.0785396	0.21052604	2.7985442	21	9 6.7	18.6
43849 1993 RB_{11}	14.7	X	318.15355	227.47508	178.13891	8.94109	0.1543209	0.21225548	2.7833219	21	10 11.3	17.7
43850 1993 SB_{14}	15.2	X	2.65551	198.46649	179.62021	10.40144	0.2255480	0.21406328	2.7676293	21	12 5.9	18.2
43851 1993 TL_1	15.4	X	198.21606	233.23146	182.85287	5.36996	0.3398423	0.23457576	2.6038380	21	5 22.3	20.4
43852 1993 TH_{28}	14.5	X	43.79806	199.94950	186.29028	9.88755	0.1910795	0.21778704	2.7359912	21	—	—
43853 1993 TM_{29}	14.1	X	69.63367	65.09262	157.83298	7.24715	0.0547438	0.16867939	3.2441035	21	7 24.1	18.7
43854 1993 TO_{31}	14.4	X	271.87528	267.19735	47.74873	8.03511	0.2059594	0.27107063	2.3645458	21	3 23.7	18.0
43855 1993 TX_{36}	14.1	X	357.90730	145.30674	141.54004	4.11535	0.1749753	0.20506459	2.8480149	21	7 6.1	16.8
43856 1993 UV_4	14.3	X	12.60096	279.06576	172.89723	10.73186	0.0666856	0.18456774	3.0551475	21	—	—
43857 1993 VP_2	13.1	X	35.24320	120.65947	231.79998	22.64375	0.1822307	0.21275068	2.7790012	21	12 13.7	16.9
43858 1994 AT	15.9	X	209.81417	341.37434	91.23084	1.28035	0.1567970	0.30528879	2.1843831	21	6 23.8	19.2
43859 Naoyayano	13.6	X	178.33703	74.19700	306.33080	7.98065	0.1779741	0.18948792	3.0020301	21	3 22.7	18.7
43860 1994 CQ_9	13.3	X	81.12127	246.15933	138.73559	13.24511	0.1090694	0.17598223	3.1537227	21	—	—
43861 1994 CT_{13}	15.5	X	78.59323	43.46949	22.18663	6.85991	0.0798260	0.28740602	2.2740786	21	—	—
43862 1994 EK_1	14.5	X	194.45339	187.46491	25.21682	7.43230	0.0623004	0.27497526	2.3421083	21	12 18.7	17.7
43863 1994 EU_6	13.9	X	92.03663	295.28349	137.12756	13.80746	0.2748173	0.18416754	3.0595718	21	3 20.2	18.2
43864 1994 GM_3	13.8	X	326.96731	240.09584	28.89504	1.48288	0.0506372	0.18395264	3.0619543	21	4 29.8	17.8
43865 1994 PX_9	15.7	X	232.18819	313.35610	17.19504	1.26789	0.1319207	0.24359153	2.5391865	21	3 9.9	19.5
43866 1994 PG_{19}	15.0	X	198.99876	55.21552	334.93795	4.58982	0.1494516	0.24460451	2.5321713	21	4 18.8	19.0
43867 1994 PO_{28}	15.6	X	230.17629	322.14157	35.47736	1.88621	0.1666682	0.24547884	2.5261551	21	4 8.8	19.5
43868 1994 PL_{35}	15.4	X	184.88663	197.86041	204.08112	2.85535	0.1290536	0.24509166	2.5288148	21	4 21.9	19.3
43869 1994 RD_{11}	15.7	X	316.09871	176.16410	153.41663	25.33658	0.0344156	0.36182687	1.9504531	21	7 6.2	18.1
43870 1994 TX	15.1	X	136.93029	345.08936	41.76973	3.25420	0.2357340	0.23587686	2.5942540	21	2 26.6	19.0
43871 1994 TW_{15}	15.1	X	195.65647	152.23202	220.68460	3.60621	0.2263199	0.24122539	2.5557637	21	3 27.4	19.4
43872 1994 UL_9	15.7	X	200.23377	21.06153	278.03984	3.11622	0.1839004	0.23466952	2.6031444	21	1 3.6	20.0
43873 1994 VD	14.8	X	76.26874	151.04978	226.91239	11.32120	0.1919434	0.22777622	2.6554031	21	—	—
43874 1994 VZ_6	15.5	X	140.65203	158.20633	235.31113	3.96547	0.2797551	0.23599842	2.5933631	21	3 11.1	19.7
43875 1994 WT_3	15.2	X	161.68442	157.44966	243.36213	6.44462	0.3462907	0.23834959	2.5762803	21	4 8.3	20.0
43876 1994 XV_4	13.8	X	28.30077	161.52932	274.82435	12.01602	0.1380074	0.22418482	2.6836873	21	—	—
43877 1995 BP_{11}	15.0	X	222.09951	174.07944	120.26400	2.75367	0.1378389	0.18593610	3.0401399	21	1 23.6	19.9
43878 1995 BS_{11}	14.4	X	187.69747	55.79689	13.01036	1.78968	0.0452571	0.19856958	2.9097850	21	5 30.7	18.6
43879 1995 CN_6	15.0	X	348.95643	144.96112	192.42017	1.71797	0.1204563	0.20643086	2.8354346	21	8 31.6	18.2
43880 1995 CX_7	15.8	X	34.88870	177.46883	112.37132	1.00972	0.1361861	0.31878478	2.1222881	21	10 1.5	17.8
43881 Cerreto	15.2	X	13.44094	307.44052	157.60591	3.07778	0.1575005	0.25884009	2.4384566	21	—	—
43882 Maurivicoli	15.6	X	334.42644	77.57549	96.88551	7.22147	0.0754445	0.26124479	2.4234699	21	—	—
43883 1995 EK_2	15.4	X	216.68803	162.38438	201.34286	1.16997	0.1121613	0.19594584	2.9357023	21	4 9.6	19.9
43884 1995 FZ_7	15.2	X	139.42715	98.84801	26.29898	14.35845	0.0388078	0.23377768	2.6097607	21	6 11.5	19.0
43885 1995 FJ_9	15.1	X	254.19127	193.59564	35.96703	7.97710	0.0857578	0.29258836	2.2471463	21	—	—
43886 1995 GR_7	16.2	X	319.49549	189.32510	111.36332	5.64741	0.1910459	0.30702356	2.1761471	21	5 1.7	18.3
43887 1995 OS_4	15.4	X	181.94561	251.05122	326.93135	11.78175	0.1250038	0.23736131	2.5834264	21	11 27.3	19.6
43888 1995 OV_8	15.8	X	220.61024	113.87701	173.69402	6.33426	0.1782868	0.28752159	2.2734692	21	—	—
43889 Osawatakaomi	14.2	X	122.24646	138.32034	272.53376	4.36022	0.1571089	0.28564987	2.2833896	21	2 19.6	17.0
43890 Katiaottani	16.2	X	173.00990	330.33108	327.14140	2.93833	0.2398040	0.28289782	2.2981744	21	—	—
43891 1995 SQ_1	14.1	X	334.18551	122.29706	313.60828	23.72059	0.2197947	0.27043152	2.3682698	21	—	—
43892 1995 SG_{21}	15.2	X	30.50328	33.09446	355.01140	2.10027	0.1309631	0.27429356	2.3459872	21	—	—
43893 1995 ST_{32}	15.8	X	121.56729	185.12352	172.75082	1.96888	0.1941516	0.24284056	2.5444186	21	—	—
43894 1995 TP	15.5	X	41.46180	158.43076	199.27409	6.27888	0.1431185	0.27099186	2.3650040	21	—	—
43895 1995 UC_4	15.5	X	314.63729	355.73440	35.14455	2.91721	0.1844325	0.26309815	2.4120752	21	9 17.5	17.4
43896 1995 UL_4	13.9	X	50.86372	305.08046	34.51649	7.32671	0.1469709	0.26840738	2.3801615	21	12 24.8	17.1
43897 1995 VC	15.3	X	235.54380	43.20674	38.07882	3.10080	0.1567083	0.25703234	2.4498765	21	8 3.0	18.9
43898 1995 VN	15.3	X	285.63300	198.36316	179.83021	2.16991	0.2130187	0.25874152	2.4390758	21	6 29.6	18.3
43899 1995 VH_1	15.2	X	111.61829	140.23970	240.16132	8.29716	0.2104906	0.27885813	2.3203162	21	1 4.4	17.8
43900 1995 VH_2	15.1	X	7.67499	220.42342	149.52326	2.89872	0.2186087	0.26681800	2.3896041	21	12 16.7	17.4
43901 1995 VX_2	16.3	X	29.04186	103.75442	201.59858	1.81675	0.1806367	0.26470499	2.4023040	21	10 13.6	18.5
43902 1995 VX_4	15.8	X	52.10669	140.81645	124.96252	3.84372	0.1664096	0.26203700	2.4185829	21	9 21.9	18.7
43903 1995 WC	14.9	X	94.60721	152.46531	227.20420	5.97375	0.2098536	0.27651389	2.3334119	21	—	—
43904 1995 WO	15.1	X	40.37076	139.58981	197.78255	8.23617	0.2771840	0.26826923	2.3809785	21	12 26.8	18.5
43905 1995 WC_1	15.4	X	37.21561	145.84823	234.93804	1.47847	0.2177772	0.27064816	2.3670058	21	—	—
43906 1995 WK_4	15.5	X	296.94817	291.99047	106.70890	3.29155	0.1758918	0.26039562	2.4287357	21	8 25.6	17.8
43907 1995 WX_4	15.2	X	307.20715	177.49548	225.19613	4.05874	0.1931112	0.26175479	2.4203209	21	9 15.2	17.3
43908 Hiraku	14.7	X	283.62616	309.62739	51.23758	8.44472	0.0974995	0.25541051	2.4602366	21	6 20.8	17.8
43909 1995 WB_9	13.8	X	333.71854	244.41602	228.79486	26.31306	0.1368828	0.23148419	2.6269703	21	—	—
43910 1995 WA_{20}	15.5	X	273.59855	139.24192	100.65584	6.13949	0.1193813	0.24107292	2.5568412	21	—	—
43911 1995 WF_{22}	14.1	X	228.50884	355.65683	229.31696	26.18458	0.1468959	0.23386779	2.6090903	21	—	—
43912 1995 WR_{34}	15.1	X	282.40689	16.29307	125.70955	14.61067	0.0113365	0.22559403	2.6724996	21	—	—
43913 1995 YT	15.5	X	357.41939	205.86514	164.95543	2.08211	0.2590377	0.26466546	2.4025432	21	12 4.9	17.3
43914 1995 YC_2	15.1	X	257.47473	164.60071	216.41861	4.77867	0.1968946	0.25437088	2.4669355	21	6 1.9	18.8
43915 1995 YT_7	14.7	X	175.18081	126.22004	100.01480	6.89449	0.2184435	0.22740375	2.6583019	21	11 28.4	19.2
43916 1996 AP_2	14.0	X	106.77873	130.39719	309.76820	11.03793	0.1252712	0.23961833	2.5671783	21	3 10.2	17.5
43917 1996 AM_{16}	15.6	X	31.28841	232.18794	85.34991	7.25979	0.1572828	0.26363090	2.4088246	21	11 2.5	18.4
43918 1996 AE_{18}	15.3	X	191.37106	198.32297	147.01254	5.54587	0.2439952	0.23993484	2.5649201	21	2 21.1	19.7
43919 1996 BG_3	14.6	X	40.71813	343.66228	134.65661	15.36246	0.1384922	0.23552449	2.5968409	21	1 20.4	17.2
43920 1996 CJ_2	13.5	X	185.92340	80.93021	71.87900	10.26111	0.1010690	0.21488837	2.7605404	21	9 18.7	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
43921 1996 CW_3	14.0	X	31.65924	113.95329	316.71355	11.18615	0.0168156	0.22888306	2.6468355	21	—	—
43922 1996 CE_5	14.6	X	120.07075	110.27606	314.30086	21.67200	0.1193516	0.23908187	2.5710171	21	3 2.1	18.4
43923 1996 CX_8	14.3	X	147.64208	13.51228	10.17534	6.87401	0.0448627	0.23560392	2.5962571	21	2 13.3	17.9
43924 Martoni	14.8	X	187.04214	209.78834	317.04970	4.42068	0.0313150	0.21470791	2.7620870	21	10 3.4	18.6
43925 1996 DB_3	14.5	X	7.62143	199.50222	320.55688	13.85910	0.0774471	0.23732299	2.5837045	21	1 26.3	17.5
43926 1996 EL_1	13.4	X	92.49671	119.69201	340.69576	13.20285	0.1498587	0.23738410	2.5832611	21	3 22.8	16.7
43927 1996 GN_4	14.7	X	72.13925	209.81981	177.31036	13.26369	0.2555572	0.22434015	2.6824484	21	—	—
43928 1996 HE_{13}	14.5	X	210.06498	30.61359	230.64198	3.98780	0.1352412	0.18248141	3.0783899	21	—	—
43929 1996 JO_9	14.7	X	136.67444	6.63622	85.74205	3.29197	0.0616922	0.19670780	2.9281164	21	5 3.7	19.0
43930 1996 LR_3	15.8	X	16.43301	80.45852	127.40701	7.81506	0.0562589	0.27356228	2.3501662	21	4 14.0	18.5
43931 Yoshimi	13.1	X	21.13161	265.33128	165.74508	21.53945	0.0799701	0.17002504	3.2269641	21	—	—
43932 1996 QH	14.8	X	65.07863	82.94451	322.60534	5.37470	0.1818955	0.29053381	2.2577279	21	—	—
43933 1996 RX_9	15.1	X	208.44657	262.06590	147.80668	3.92018	0.0640212	0.22819665	2.6521406	21	5 29.8	18.9
43934 1996 TC	13.9	X	162.16798	132.76448	338.02859	0.54870	0.0421882	0.18808166	3.0169753	21	6 24.1	18.4
43935 Danshechtman	16.0	X	12.37720	49.43494	272.18491	2.91980	0.1379351	0.31503360	2.1391018	21	10 8.3	17.8
43936 1996 TM_{11}	13.6	X	117.54067	208.84762	204.42198	16.58196	0.0987687	0.17521762	3.1628908	21	2 24.2	18.5
43937 1996 TS_{25}	15.7	X	291.17691	144.53498	38.91315	6.91708	0.1242991	0.28683193	2.2771120	21	—	—
43938 1996 TH_{51}	14.2	X	176.40134	163.23431	181.42307	13.59815	0.1869958	0.21754002	2.7380620	21	2 5.9	18.8
43939 1996 TT_{53}	16.3	X	35.53541	269.66098	25.69080	0.64808	0.2187739	0.27782519	2.3260639	21	10 18.5	18.7
43940 1996 XY_5	12.7	X	94.51949	299.86398	86.46694	6.49047	0.2309880	0.12557113	3.9495066	21	1 28.7	18.2
43941 1996 YP	14.6	X	4.80882	170.38771	296.02287	6.23600	0.0545896	0.28198432	2.3031351	21	—	—
43942 1996 YX	14.6	X	31.24687	149.09111	275.88713	6.99127	0.0796082	0.28069811	2.3101653	21	—	—
43943 1997 AV	14.9	X	80.73681	127.63058	319.01047	3.93481	0.1240478	0.28815692	2.2701263	21	2 1.9	17.0
43944 1997 AW_1	14.4	X	39.59341	25.19812	55.94138	4.89553	0.1177225	0.28323002	2.2963770	21	—	—
43945 1997 AS_2	15.2	X	159.59891	62.15217	305.06450	24.80263	0.2016276	0.28895500	2.2659444	21	2 7.3	18.6
43946 1997 AR_6	15.3	X	167.77009	197.43532	270.88239	7.86038	0.1187973	0.30233845	2.1985708	21	6 28.8	18.3
43947 1997 AE_7	14.5	X	160.90375	336.72662	169.20174	4.73656	0.0962032	0.26122598	2.4235862	21	8 9.9	18.0
43948 1997 AU_{12}	14.7	X	21.46636	138.02613	322.99015	6.17737	0.0403845	0.28211831	2.3024058	21	—	—
43949 1997 AU_{18}	15.1	X	127.30492	85.19670	97.75931	7.65241	0.0599142	0.26205723	2.4184584	21	8 22.1	18.4
43950 1997 BG_1	14.9	X	219.94354	33.57302	143.43706	7.56717	0.2266833	0.22979994	2.6397904	21	11 9.3	19.1
43951 1997 BC_5	15.8	X	35.60716	87.88521	221.00984	1.62028	0.2065087	0.26507762	2.4000521	21	11 2.5	18.3
43952 1997 BG_7	16.0	X	237.65497	339.23028	129.48375	7.50755	0.0482427	0.26613224	2.3937074	21	9 29.7	19.1
43953 1997 CB_1	15.2	X	204.00089	255.14626	164.81424	4.89156	0.1188625	0.29769566	2.2213707	21	6 2.6	18.4
43954 Chýnov	14.4	X	70.69484	132.30107	324.94106	6.95863	0.0559748	0.28765929	2.2727436	21	1 25.4	16.9
43955 Fixlmüller	16.5	X	35.54143	154.38839	198.10524	0.28162	0.0395889	0.27086419	2.3657471	21	12 6.6	19.3
43956 Elidoro	15.4	X	199.20397	160.07958	355.32281	2.61669	0.1121816	0.26614440	2.3936345	21	10 3.8	18.6
43957 Invernizzi	14.4	X	37.48981	322.21341	138.46022	8.50861	0.1497304	0.24131222	2.5551506	21	—	—
43958 1997 CZ_{14}	16.0	X	141.31787	335.53270	36.12050	2.72294	0.2326068	0.28724172	2.2749457	21	2 3.9	19.2
43959 1997 CB_{26}	13.9	X	338.13170	113.64840	320.84638	5.94599	0.0664122	0.27305283	2.3530885	21	—	—
43960 1997 CE_{27}	15.4	X	136.20252	40.75540	291.16394	6.21422	0.2078863	0.28029742	2.3123664	21	—	—
43961 1997 ER_5	14.9	X	211.47957	232.77680	164.97309	2.25014	0.1439939	0.25233090	2.4802137	21	5 12.8	18.8
43962 1997 EX_{13}	15.3	X	328.45876	97.19393	308.15881	2.13775	0.1581374	0.26906589	2.3762764	21	11 12.1	17.1
43963 1997 EW_{14}	15.8	X	182.85773	200.55507	169.72304	5.44051	0.1894421	0.29145509	2.2529676	21	3 8.7	19.1
43964 1997 EF_{23}	14.5	X	147.29851	80.79442	331.70224	6.79079	0.0928426	0.29361029	2.2419291	21	3 15.6	17.5
43965 1997 EO_{32}	15.8	X	186.72707	129.18761	161.46307	0.91286	0.1671549	0.23396697	2.6083529	21	—	—
43966 1997 EM_{36}	15.2	X	34.41331	319.43150	148.34078	6.03336	0.1858230	0.28430880	2.2905644	21	—	—
43967 1997 FM_2	14.8	X	220.58552	57.12637	24.81203	6.51335	0.1864629	0.25849227	2.4406435	21	7 16.9	18.7
43968 1997 FA_5	15.6	X	179.09332	25.40405	187.43257	4.51906	0.1658604	0.22520058	2.6756115	21	11 17.7	19.9
43969 1997 GL	15.4	X	214.62854	135.27804	172.00111	0.59620	0.1052982	0.23859478	2.5745150	21	1 23.9	19.4
43970 1997 GH_1	14.9	X	130.17197	179.95732	181.11950	2.98449	0.1797618	0.23729243	2.5839263	21	1 9.7	18.4
43971 Gabzdyl	15.9	X	177.64179	79.98826	183.82730	2.33585	0.1778670	0.22898379	2.6460592	21	—	—
43972 1997 GM_6	14.9	X	121.72468	89.57153	208.03029	10.56263	0.1832583	0.22439859	2.6819826	21	—	—
43973 1997 GE_7	14.7	X	70.30305	138.14563	206.47684	12.19455	0.1401087	0.22438104	2.6821225	21	—	—
43974 1997 GY_{12}	14.9	X	35.58625	196.59602	179.52232	2.59968	0.1208489	0.22775187	2.6555924	21	—	—
43975 1997 GF_{14}	15.2	X	232.56941	162.58650	281.27046	1.98740	0.1456935	0.25897372	2.4376176	21	8 2.9	18.8
43976 1997 GQ_{14}	15.0	X	25.58336	78.66605	332.99610	5.01381	0.2349206	0.27310617	2.3527821	21	—	—
43977 1997 GD_{17}	15.0	X	276.04397	149.09482	275.68834	1.73679	0.1848283	0.26177939	2.4201693	21	8 26.1	17.7
43978 1997 GG_{17}	14.9	X	150.45348	105.94040	215.53067	6.34124	0.1162051	0.23292140	2.6161529	21	—	—
43979 1997 GM_{17}	15.3	X	270.89845	303.50236	225.62499	2.49883	0.2234252	0.23190713	2.6237753	21	12 30.4	18.2
43980 1997 GR_{20}	15.7	X	269.45168	293.85468	28.84930	1.16123	0.1424869	0.24665103	2.5181451	21	4 5.9	19.4
43981 1997 GM_{21}	15.2	X	70.42955	288.13246	355.34026	1.07970	0.2032146	0.21696477	2.7428995	21	11 4.6	19.1
43982 1997 GA_{32}	14.5	X	107.45838	303.36976	148.33852	8.33607	0.2136808	0.24321826	2.5417838	21	4 16.2	18.1
43983 1997 GR_{35}	13.9	X	45.73007	174.85697	218.88752	11.55676	0.2848451	0.22732469	2.6589182	21	—	—
43984 1997 HR_7	15.0	X	96.98057	305.78950	350.87276	3.07146	0.0859783	0.22251735	2.6970778	21	12 6.8	18.9
43985 1997 HQ_8	15.7	X	300.56939	111.95033	61.14956	3.56567	0.0334899	0.23289018	2.6163867	21	—	—
43986 1997 HF_9	15.5	X	244.62259	358.74843	234.62703	6.82033	0.0786068	0.23277367	2.6172597	21	—	—
43987 1997 JR_9	14.7	X	154.56330	76.65110	132.72433	13.22625	0.1260395	0.21919700	2.7242459	21	10 26.9	19.2
43988 1997 KQ_3	14.9	X	334.62634	293.97859	113.57951	6.22074	0.0052245	0.22065108	2.7122643	21	11 15.8	18.6
43989 1997 LG_4	14.5	X	247.87095	189.39442	151.53061	15.98062	0.1494889	0.20040997	2.8919437	21	4 14.2	19.2
43990 1997 LN_4	14.9	X	236.17078	12.09044	175.22375	4.08369	0.1475135	0.22680741	2.6629595	21	12 16.1	18.5
43991 1997 MF_{10}	14.5	X	93.96202	274.72198	121.13163	12.58112	0.2827921	0.22999680	2.6382839	21	1 24.7	17.5
43992 1997 NP	13.8	X	209.52956	116.85640	295.25030	4.73938	0.1054334	0.19871892	2.9083270	21	5 31.9	18.3
43993 Mariola	14.3	X	100.80150	18.79756	304.60447	11.79994	0.2366467	0.21891577	2.7265786	21	—	—
43994 1997 PF_3	15.1	X	207.05684	202.91967	82.68247	1.96385	0.2398002	0.18469539	3.0537396	21	1 1.7	20.4
43995 1997 PY_5	16.5	X	45.65547	219.47980	254.08854	2.20020	0.0751204	0.30755745	2.1736280	21	—	—
43996 1997 QH	15.0	X	319.76548	146.28346	205.01976	1.58405	0.0974015	0.20412971	2.8567040	21	8 1.6	18.5
43997 1997 QX	14.7	X	83.87044	56.18617	335.28309	8.72984	0.0612793	0.18059848	3.0997499	21	—	—
43998 Nanyoshino	13.4	X	151.30386	89.25149	173.85958	16.43906	0.2011022	0.17545605	3.1600247	21	12 15.9	19.0
43999 Gramigna	15.7	X	248.50145	285.34720	15.95901	1.55295	0.0607776	0.31473679	2.1404465	21	2 11.2	18.3
44000 1997 RB	13.9	X	241.83231	244.45506	344.86790	13.13776	0.0433626	0.17990183	3.1077470	21	—	—